284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q3097

ATTENTION : Eleanor Vivadou

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q3097

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number	Client Sample Number
Q3097-01	RE103D2-20250911
Q3097-02	RE103D2-20250911MS
Q3097-03	RE103D2-20250911MSD
Q3097-04	RE125D1-20250911
Q3097-05	RE125D3-20250911
Q3097-06	RE103D3-20250911
Q3097-07	RE108D2-20250911
Q3097-08	RE125D2-20250911
Q3097-09	RE108D1-20250911
Q3097-10	RE120D3-20250911
Q3097-11	RE105D1-20250911
Q3097-12	DUP04-20250911
Q3097-13	DUP05-20250911
Q3097-14	RE105D2-20250911
Q3097-15	RE117D2-20250911
Q3097-16	TB03-20250911
Q3097-17	TB04-20250911
Q3097-18	TB05-20250912
Q3097-19	RE120D1-20250912
Q3097-20	DUP06-20250912
Q3097-21	RE120D2-20250912
Q3097-22	RE134D1-20250912
Q3097-23	RE134D4-20250912
Q3097-24	RE134D2-20250912
Q3097-25	RE134D3-20250912
Q3097-26	EB01-20250912

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:08 am, Sep 26, 2025

Date: 9/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

AECOM Technical Services, Inc.
Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Project # N/A
Order ID # Q3097
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
26 Water samples were received on 09/12/2025.
B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis except for RE103D2-20250911 [1,2-Dichloroethane-d4 - 122%], RE108D2-20250911DL [1,2-Dichloroethane-d4 - 119%, 4-Bromofluorobenzene - 118% and Toluene-d8 - 119%], Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported while for RE103D2-20250911MS [Toluene-d8 - 113%], surrogate recoveries passing in parent sample and MSD therefore no corrective action taken.

The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The MS {Q3097-02MS} with File ID: VX047715.D recoveries met the requirements for all compounds except for Bromochloromethane[124%], Trichloroethene[200%] due to matrix interference.

The MSD {Q3097-03MSD} with File ID: VX047716.D recoveries met the requirements for all compounds except for Trichloroethene[140%] due to matrix interference.

The sample # RE103D2-20250911MS and RE103D2-20250911MSD is failing for Bromochloromethane and Trichloroethene therefore the original sample(RE103D2-20250911) is reported with M flag for this compounds.

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The RPD for {Q3097-03MSD} with File ID: VX047716.D met criteria except for Trichloroethene[35%] due to difference in results of MS and MSD.
The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration File ID VX047660.D met the requirements except for Bromomethane and Dichlorodifluoromethane are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX047689.D met the requirements except for Bromomethane,Carbon Disulfide,Chloromethane,Dichlorodifluoromethane and Vinyl Chloride are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX047719.D met the requirements except for Bromomethane,Dichlorodifluoromethane and Vinyl Chloride are failing high and associate sample having hit of Dichlorodifluoromethane but below CRQL therefore no corrective action taken.

The Continuous Calibration File ID VX047746.D met the requirements except for Dichlorodifluoromethane is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX047769.D met the requirements except for Methyl Acetate is failing high but no positive hit in associate sample therefore no corrective action taken.

END CCAL was not analyzed in sequence VX092425 due to power error in laboratory during the night and there are no more vials for re-analysis therefore all samples reported from this sequence without END CCAL.

The Tuning criteria met requirements.

Samples RE103D2-20250911, RE108D2-20250911, RE125D2-20250911, RE105D2-20250911, RE120D1-20250912, DUP06-20250912, RE120D2-20250912, RE134D4-20250912 and RE134D3-20250912 were diluted due to high concentrations.

E. Additional Comments:
The Sample #RE125D1-20250911, RE105D1-20250911, DUP04-20250911, RE120D1-20250912, RE134D1-20250912, RE134D2-20250912 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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The not QT review data is reported in the Miscellaneous.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 10:09 am, Sep 26, 2025

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3097 MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration File ID VX047660.D met the requirements except for Bromomethane and Dichlorodifluoromethane are failing high but no positive hit in associate sample therefore no corrective action taken. The Continuous Calibration File ID VX047689.D met the requirements except for Bromomethane,Carbon Disulfide,Chloromethane,Dichlorodifluoromethane and Vinyl Chloride are failing high but no positive hit in associate sample therefore no corrective action taken. The Continuous Calibration File ID VX047719.D met the requirements except for Bromomethane,Dichlorodifluoromethane and Vinyl Chloride are failing high and associate sample having hit of Dichlorodifluoromethane but below CRQL therefore no corrective action taken. The Continuous Calibration File ID VX047746.D met the requirements except for Dichlorodifluoromethane is failing high but no positive hit in associate sample therefore no corrective action taken. The Continuous Calibration File ID VX047769.D met the requirements except for Methyl Acetate is failing high but no positive hit in associate sample therefore no corrective action taken. END CCAL was not analyzed in sequence VX092425 due to power error in laboratory during the night and there are no more vials for re-analysis therefore all samples reported from this sequence without END CCAL.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries were met for all analysis except for RE103D2-20250911 [1,2-Dichloroethane-d4 - 122%], RE108D2-20250911DL [1,2-Dichloroethane-d4 - 119%, 4-Bromofluorobenzene - 118% and Toluene-d8 - 119%], Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported while for RE103D2-20250911MS [Toluene-d8 - 113%], surrogate recoveries passing in parent sample and MSD therefore no corrective action taken.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {Q3097-02MS} with File ID: VX047715.D recoveries met the requirements for all compounds except for Bromochloromethane[124%], Trichloroethene[200%] due to matrix interference. The MSD {Q3097-03MSD} with File ID: VX047716.D recoveries met the requirements for all compounds except for Trichloroethene[140%] due to matrix interference. The sample # RE103D2-20250911MS and RE103D2-20250911MSD is failing for Bromochloromethane and Trichloroethene therefore the original sample(RE103D2-20250911) is reported with M flag for this compounds. The RPD for {Q3097-03MSD} with File ID: VX047716.D met criteria except for Trichloroethene[35%] due to difference in results of MS and MSD.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples RE103D2-20250911, RE108D2-20250911, RE125D2-20250911, RE105D2-20250911, RE120D1-20250912, DUP06-20250912, RE120D2-20250912, RE134D4-20250912 and RE134D3-20250912 were diluted due to high concentrations.

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

The Sample #RE125D1-20250911, RE105D1-20250911, DUP04-20250911, RE120D1-20250912, RE134D1-20250912, RE134D2-20250912 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The not QT review data is reported in the Miscellaneous.

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 9:17 am, Sep 26, 2025

Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3097

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 09/26/2025

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LAB CHRONICLE

OrderID:	Q3097	**OrderDate:**	9/12/2025 1:28:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3097-01	**RE103D2-20250911**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/22/25	
Q3097-01DL	**RE103D2-20250911DL**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/23/25	
Q3097-04	**RE125D1-20250911**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/19/25	
Q3097-05	**RE125D3-20250911**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/19/25	
Q3097-06	**RE103D3-20250911**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/19/25	
Q3097-07	**RE108D2-20250911**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/19/25	
Q3097-07DL	**RE108D2-20250911DL**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/22/25	
Q3097-08	**RE125D2-20250911**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/19/25	
Q3097-08DL	**RE125D2-20250911DL**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/22/25	
Q3097-09	**RE108D1-20250911**	**Water**			**09/11/25**			**09/12/25**
			VOCMS Group1	8260-Low			09/22/25	
Q3097-10	**RE120D3-20250911**	**Water**			**09/11/25**			**09/12/25**

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			VOCMS Group1	8260-Low		09/22/25	
Q3097-11	**RE105D1-20250911**	**Water**			**09/11/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/19/25	
Q3097-12	**DUP04-20250911**	**Water**			**09/11/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/19/25	
Q3097-13	**DUP05-20250911**	**Water**			**09/11/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/19/25	
Q3097-14	**RE105D2-20250911**	**Water**			**09/11/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/19/25	
Q3097-14DL	**RE105D2-20250911DL**	**Water**			**09/11/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/22/25	
Q3097-15	**RE117D2-20250911**	**Water**			**09/11/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/23/25	
Q3097-16	**TB03-20250911**	**Water**			**09/11/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/23/25	
Q3097-17	**TB04-20250911**	**Water**			**09/11/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/23/25	
Q3097-18	**TB05-20250912**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/23/25	
Q3097-19	**RE120D1-20250912**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/23/25	
Q3097-19DL	**RE120D1-20250912DL**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/24/25	
Q3097-20	**DUP06-20250912**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/23/25	
Q3097-20DL	**DUP06-20250912DL**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/24/25	
Q3097-21	**RE120D2-20250912**	**Water**			**09/12/25**		**09/12/25**

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LAB CHRONICLE

			VOCMS Group1	8260-Low		09/23/25	
Q3097-21DL	**RE120D2-20250912DL**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/24/25	
Q3097-22	**RE134D1-20250912**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/23/25	
Q3097-23	**RE134D4-20250912**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/23/25	
Q3097-23DL	**RE134D4-20250912DL**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/24/25	
Q3097-24	**RE134D2-20250912**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/23/25	
Q3097-25	**RE134D3-20250912**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/24/25	
Q3097-25DL	**RE134D3-20250912DL**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/24/25	
Q3097-26	**EB01-20250912**	**Water**			**09/12/25**		**09/12/25**
			VOCMS Group1	8260-Low		09/22/25	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**RE103D2-20250911**								
Q3097-01	RE103D2-20250911	Water	1,1,2-Trichlorotrifluoroethane	3.00		0.25	0.50	1.00	ug/L
Q3097-01	RE103D2-20250911	Water	Acetone	3.60	J	1.50	3.80	5.00	ug/L
Q3097-01	RE103D2-20250911	Water	2-Butanone	2.90	J	0.98	2.50	5.00	ug/L
Q3097-01	RE103D2-20250911	Water	Chloroform	0.25	J	0.25	0.50	1.00	ug/L
Q3097-01	RE103D2-20250911	Water	Trichloroethene	250	EM	0.090	0.75	1.00	ug/L
Q3097-01	RE103D2-20250911	Water	Tetrachloroethene	0.87	J	0.23	0.50	1.00	ug/L
			Total Voc :	261					
			Total Concentration:	261					
Client ID:	**RE103D2-20250911DL**								
Q3097-01DL	RE103D2-20250911	Water	Trichloroethene	290	D	0.47	3.80	5.00	ug/L
			Total Voc :	290					
			Total Concentration:	290					
Client ID:	**RE125D1-20250911**								
Q3097-04	RE125D1-20250911	Water	1,1,2-Trichlorotrifluoroethane	1.70		0.25	0.50	1.00	ug/L
Q3097-04	RE125D1-20250911	Water	1,1-Dichloroethene	0.46	J	0.23	0.75	1.00	ug/L
Q3097-04	RE125D1-20250911	Water	Acetone	1.60	J	1.50	3.80	5.00	ug/L
Q3097-04	RE125D1-20250911	Water	Methyl tert-butyl Ether	0.63	J	0.16	0.50	1.00	ug/L
Q3097-04	RE125D1-20250911	Water	cis-1,2-Dichloroethene	1.70		0.19	0.75	1.00	ug/L
Q3097-04	RE125D1-20250911	Water	Chloroform	0.54	J	0.25	0.50	1.00	ug/L
Q3097-04	RE125D1-20250911	Water	Trichloroethene	140		0.090	0.75	1.00	ug/L
Q3097-04	RE125D1-20250911	Water	Tetrachloroethene	8.50		0.23	0.50	1.00	ug/L
			Total Voc :	155					
			Total Concentration:	155					
Client ID:	**RE125D3-20250911**								
Q3097-05	RE125D3-20250911	Water	1,1,2-Trichlorotrifluoroethane	130		0.25	0.50	1.00	ug/L
Q3097-05	RE125D3-20250911	Water	1,1-Dichloroethene	0.92	J	0.23	0.75	1.00	ug/L
Q3097-05	RE125D3-20250911	Water	cis-1,2-Dichloroethene	1.20		0.19	0.75	1.00	ug/L
Q3097-05	RE125D3-20250911	Water	Trichloroethene	68.9		0.090	0.75	1.00	ug/L
Q3097-05	RE125D3-20250911	Water	Tetrachloroethene	11.4		0.23	0.50	1.00	ug/L
			Total Voc :	212					
			Total Concentration:	212					
Client ID:	**RE103D3-20250911**								
Q3097-06	RE103D3-20250911	Water	1,1,2-Trichlorotrifluoroethane	1.30		0.25	0.50	1.00	ug/L
Q3097-06	RE103D3-20250911	Water	Acetone	2.10	J	1.50	3.80	5.00	ug/L
Q3097-06	RE103D3-20250911	Water	Trichloroethene	84.2		0.090	0.75	1.00	ug/L
Q3097-06	RE103D3-20250911	Water	Tetrachloroethene	0.43	J	0.23	0.50	1.00	ug/L
			Total Voc :	88.0					
			Total Concentration:	88.0					

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Hit Summary Sheet
SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**RE108D2-20250911**								
Q3097-07	RE108D2-20250911	Water	1,1,2-Trichlorotrifluoroethane	2.20		0.25	0.50	1.00	ug/L
Q3097-07	RE108D2-20250911	Water	1,1-Dichloroethene	2.50		0.23	0.75	1.00	ug/L
Q3097-07	RE108D2-20250911	Water	1,1-Dichloroethane	1.50		0.23	0.50	1.00	ug/L
Q3097-07	RE108D2-20250911	Water	Carbon Tetrachloride	0.60	J	0.25	0.50	1.00	ug/L
Q3097-07	RE108D2-20250911	Water	cis-1,2-Dichloroethene	2.70		0.19	0.75	1.00	ug/L
Q3097-07	RE108D2-20250911	Water	Chloroform	1.10		0.25	0.50	1.00	ug/L
Q3097-07	RE108D2-20250911	Water	Trichloroethene	1300	E	0.090	0.75	1.00	ug/L
Q3097-07	RE108D2-20250911	Water	Tetrachloroethene	2.60		0.23	0.50	1.00	ug/L
			Total Voc :	1310					
			Total Concentration:	1310					
Client ID:	**RE108D2-20250911DL**								
Q3097-07DL	RE108D2-20250911	Water	Trichloroethene	1200	D	1.90	15.0	20.0	ug/L
			Total Voc :	1200					
			Total Concentration:	1200					
Client ID:	**RE125D2-20250911**								
Q3097-08	RE125D2-20250911	Water	1,1,2-Trichlorotrifluoroethane	6.90		0.25	0.50	1.00	ug/L
Q3097-08	RE125D2-20250911	Water	1,1-Dichloroethene	2.10		0.23	0.75	1.00	ug/L
Q3097-08	RE125D2-20250911	Water	cis-1,2-Dichloroethene	3.40		0.19	0.75	1.00	ug/L
Q3097-08	RE125D2-20250911	Water	Chloroform	0.37	J	0.25	0.50	1.00	ug/L
Q3097-08	RE125D2-20250911	Water	Trichloroethene	300	E	0.090	0.75	1.00	ug/L
Q3097-08	RE125D2-20250911	Water	Tetrachloroethene	11.2		0.23	0.50	1.00	ug/L
			Total Voc :	324					
			Total Concentration:	324					
Client ID:	**RE125D2-20250911DL**								
Q3097-08DL	RE125D2-20250911	Water	1,1,2-Trichlorotrifluoroethane	6.20	D	1.30	2.50	5.00	ug/L
Q3097-08DL	RE125D2-20250911	Water	Trichloroethene	270	D	0.47	3.80	5.00	ug/L
Q3097-08DL	RE125D2-20250911	Water	Tetrachloroethene	10.7	D	1.20	2.50	5.00	ug/L
			Total Voc :	287					
			Total Concentration:	287					
Client ID:	**RE108D1-20250911**								
Q3097-09	RE108D1-20250911	Water	Trichloroethene	24.0		0.090	0.75	1.00	ug/L
Q3097-09	RE108D1-20250911	Water	Tetrachloroethene	1.80		0.23	0.50	1.00	ug/L
			Total Voc :	25.8					
			Total Concentration:	25.8					
Client ID:	**RE120D3-20250911**								
Q3097-10	RE120D3-20250911	Water	1,1,2-Trichlorotrifluoroethane	1.60		0.25	0.50	1.00	ug/L
Q3097-10	RE120D3-20250911	Water	Trichloroethene	15.1		0.090	0.75	1.00	ug/L
Q3097-10	RE120D3-20250911	Water	Tetrachloroethene	0.27	J	0.23	0.50	1.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Voc :	17.0					
			Total Concentration:	17.0					
Client ID:	**RE105D1-20250911**								
Q3097-11	RE105D1-20250911	Water	1,1,2-Trichlorotrifluoroethane	5.20		0.25	0.50	1.00	ug/L
Q3097-11	RE105D1-20250911	Water	1,1-Dichloroethene	0.52	J	0.23	0.75	1.00	ug/L
Q3097-11	RE105D1-20250911	Water	Trichloroethene	41.1		0.090	0.75	1.00	ug/L
			Total Voc :	46.8					
			Total Concentration:	46.8					
Client ID:	**DUP04-20250911**								
Q3097-12	DUP04-20250911	Water	1,1,2-Trichlorotrifluoroethane	5.10		0.25	0.50	1.00	ug/L
Q3097-12	DUP04-20250911	Water	1,1-Dichloroethene	0.52	J	0.23	0.75	1.00	ug/L
Q3097-12	DUP04-20250911	Water	cis-1,2-Dichloroethene	0.32	J	0.19	0.75	1.00	ug/L
Q3097-12	DUP04-20250911	Water	Trichloroethene	41.5		0.090	0.75	1.00	ug/L
			Total Voc :	47.4					
			Total Concentration:	47.4					
Client ID:	**DUP05-20250911**								
Q3097-13	DUP05-20250911	Water	1,1,2-Trichlorotrifluoroethane	1.60		0.25	0.50	1.00	ug/L
Q3097-13	DUP05-20250911	Water	1,1-Dichloroethene	0.55	J	0.23	0.75	1.00	ug/L
Q3097-13	DUP05-20250911	Water	Methyl tert-butyl Ether	0.58	J	0.16	0.50	1.00	ug/L
Q3097-13	DUP05-20250911	Water	cis-1,2-Dichloroethene	1.40		0.19	0.75	1.00	ug/L
Q3097-13	DUP05-20250911	Water	Trichloroethene	140		0.090	0.75	1.00	ug/L
Q3097-13	DUP05-20250911	Water	Tetrachloroethene	9.00		0.23	0.50	1.00	ug/L
			Total Voc :	153					
			Total Concentration:	153					
Client ID:	**RE105D2-20250911**								
Q3097-14	RE105D2-20250911	Water	1,1,2-Trichlorotrifluoroethane	13.4		0.25	0.50	1.00	ug/L
Q3097-14	RE105D2-20250911	Water	1,1-Dichloroethene	3.60		0.23	0.75	1.00	ug/L
Q3097-14	RE105D2-20250911	Water	Carbon Tetrachloride	2.30		0.25	0.50	1.00	ug/L
Q3097-14	RE105D2-20250911	Water	cis-1,2-Dichloroethene	0.63	J	0.19	0.75	1.00	ug/L
Q3097-14	RE105D2-20250911	Water	Chloroform	1.50		0.25	0.50	1.00	ug/L
Q3097-14	RE105D2-20250911	Water	Trichloroethene	1200	E	0.090	0.75	1.00	ug/L
Q3097-14	RE105D2-20250911	Water	1,1,2-Trichloroethane	1.00		0.21	0.50	1.00	ug/L
Q3097-14	RE105D2-20250911	Water	Tetrachloroethene	1.60		0.23	0.50	1.00	ug/L
			Total Voc :	1220					
			Total Concentration:	1220					
Client ID:	**RE105D2-20250911DL**								
Q3097-14DL	RE105D2-20250911	Water	1,1,2-Trichlorotrifluoroethane	11.5	JD	5.00	10.0	20.0	ug/L
Q3097-14DL	RE105D2-20250911	Water	Trichloroethene	1200	D	1.90	15.0	20.0	ug/L
			Total Voc :	1210					

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Hit Summary Sheet
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SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:	1210					
Client ID:	**RE117D2-20250911**								
Q3097-15	RE117D2-20250911	Water	Acetone	2.50	J	1.50	3.80	5.00	ug/L
Q3097-15	RE117D2-20250911	Water	Methylene Chloride	0.33	J	0.28	0.50	1.00	ug/L
			Total Voc :	2.83					
			Total Concentration:	2.83					
Client ID:	**RE120D1-20250912**								
Q3097-19	RE120D1-20250912	Water	Dichlorodifluoromethane	0.34	J	0.22	0.50	1.00	ug/L
Q3097-19	RE120D1-20250912	Water	1,1,2-Trichlorotrifluoroethane	16.8		0.25	0.50	1.00	ug/L
Q3097-19	RE120D1-20250912	Water	1,1-Dichloroethene	6.90		0.23	0.75	1.00	ug/L
Q3097-19	RE120D1-20250912	Water	Acetone	4.50	J	1.50	3.80	5.00	ug/L
Q3097-19	RE120D1-20250912	Water	cis-1,2-Dichloroethene	4.00		0.19	0.75	1.00	ug/L
Q3097-19	RE120D1-20250912	Water	Chloroform	0.51	J	0.25	0.50	1.00	ug/L
Q3097-19	RE120D1-20250912	Water	Trichloroethene	640	E	0.090	0.75	1.00	ug/L
Q3097-19	RE120D1-20250912	Water	1,1,2-Trichloroethane	0.50	J	0.21	0.50	1.00	ug/L
Q3097-19	RE120D1-20250912	Water	Tetrachloroethene	6.40		0.23	0.50	1.00	ug/L
			Total Voc :	680					
			Total Concentration:	680					
Client ID:	**RE120D1-20250912DL**								
Q3097-19DL	RE120D1-20250912	Water	1,1,2-Trichlorotrifluoroethane	16.1	D	2.50	5.00	10.0	ug/L
Q3097-19DL	RE120D1-20250912	Water	Trichloroethene	590	D	0.93	7.50	10.0	ug/L
Q3097-19DL	RE120D1-20250912	Water	Tetrachloroethene	6.50	JD	2.30	5.00	10.0	ug/L
			Total Voc :	613					
			Total Concentration:	613					
Client ID:	**DUP06-20250912**								
Q3097-20	DUP06-20250912	Water	1,1,2-Trichlorotrifluoroethane	15.9		0.25	0.50	1.00	ug/L
Q3097-20	DUP06-20250912	Water	1,1-Dichloroethene	6.80		0.23	0.75	1.00	ug/L
Q3097-20	DUP06-20250912	Water	Acetone	2.60	J	1.50	3.80	5.00	ug/L
Q3097-20	DUP06-20250912	Water	2-Butanone	1.90	J	0.98	2.50	5.00	ug/L
Q3097-20	DUP06-20250912	Water	cis-1,2-Dichloroethene	3.80		0.19	0.75	1.00	ug/L
Q3097-20	DUP06-20250912	Water	Chloroform	0.48	J	0.25	0.50	1.00	ug/L
Q3097-20	DUP06-20250912	Water	Trichloroethene	600	E	0.090	0.75	1.00	ug/L
Q3097-20	DUP06-20250912	Water	1,1,2-Trichloroethane	0.53	J	0.21	0.50	1.00	ug/L
Q3097-20	DUP06-20250912	Water	Tetrachloroethene	5.80		0.23	0.50	1.00	ug/L
			Total Voc :	638					
			Total Concentration:	638					
Client ID:	**DUP06-20250912DL**								
Q3097-20DL	DUP06-20250912D	Water	1,1,2-Trichlorotrifluoroethane	14.6	D	2.50	5.00	10.0	ug/L
Q3097-20DL	DUP06-20250912D	Water	1,1-Dichloroethene	6.00	JD	2.30	7.50	10.0	ug/L

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Hit Summary Sheet
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SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Q3097-20DL	DUP06-20250912D	Water	Methylene Chloride	6.50	JD	2.80	5.00	10.0	ug/L
Q3097-20DL	DUP06-20250912D	Water	cis-1,2-Dichloroethene	3.50	JD	1.90	7.50	10.0	ug/L
Q3097-20DL	DUP06-20250912D	Water	Trichloroethene	580	D	0.93	7.50	10.0	ug/L
Q3097-20DL	DUP06-20250912D	Water	Tetrachloroethene	6.00	JD	2.30	5.00	10.0	ug/L
			Total Voc :	617					
			Total Concentration:	617					
Client ID:	**RE120D2-20250912**								
Q3097-21	RE120D2-2025091	Water	1,1,2-Trichlorotrifluoroethane	91.3		0.25	0.50	1.00	ug/L
Q3097-21	RE120D2-2025091	Water	1,1-Dichloroethene	1.60		0.23	0.75	1.00	ug/L
Q3097-21	RE120D2-2025091	Water	Acetone	2.90	J	1.50	3.80	5.00	ug/L
Q3097-21	RE120D2-2025091	Water	Methylene Chloride	0.34	J	0.28	0.50	1.00	ug/L
Q3097-21	RE120D2-2025091	Water	cis-1,2-Dichloroethene	2.20		0.19	0.75	1.00	ug/L
Q3097-21	RE120D2-2025091	Water	Chloroform	0.50	J	0.25	0.50	1.00	ug/L
Q3097-21	RE120D2-2025091	Water	Trichloroethene	380	E	0.090	0.75	1.00	ug/L
Q3097-21	RE120D2-2025091	Water	Tetrachloroethene	8.00		0.23	0.50	1.00	ug/L
			Total Voc :	487					
			Total Concentration:	487					
Client ID:	**RE120D2-20250912DL**								
Q3097-21DL	RE120D2-2025091	Water	1,1,2-Trichlorotrifluoroethane	82.4	D	1.30	2.50	5.00	ug/L
Q3097-21DL	RE120D2-2025091	Water	Trichloroethene	350	D	0.47	3.80	5.00	ug/L
Q3097-21DL	RE120D2-2025091	Water	Tetrachloroethene	7.10	D	1.20	2.50	5.00	ug/L
			Total Voc :	440					
			Total Concentration:	440					
Client ID:	**RE134D1-20250912**								
Q3097-22	RE134D1-2025091	Water	1,1,2-Trichlorotrifluoroethane	0.30	J	0.25	0.50	1.00	ug/L
Q3097-22	RE134D1-2025091	Water	cis-1,2-Dichloroethene	0.46	J	0.19	0.75	1.00	ug/L
Q3097-22	RE134D1-2025091	Water	Trichloroethene	5.30		0.090	0.75	1.00	ug/L
Q3097-22	RE134D1-2025091	Water	Tetrachloroethene	0.55	J	0.23	0.50	1.00	ug/L
			Total Voc :	6.61					
			Total Concentration:	6.61					
Client ID:	**RE134D4-20250912**								
Q3097-23	RE134D4-2025091	Water	1,1,2-Trichlorotrifluoroethane	430	E	0.25	0.50	1.00	ug/L
Q3097-23	RE134D4-2025091	Water	1,1-Dichloroethene	2.50		0.23	0.75	1.00	ug/L
Q3097-23	RE134D4-2025091	Water	Trichloroethene	36.7		0.090	0.75	1.00	ug/L
Q3097-23	RE134D4-2025091	Water	1,2-Dichloropropane	1.30		0.20	0.50	1.00	ug/L
Q3097-23	RE134D4-2025091	Water	Tetrachloroethene	30.2		0.23	0.50	1.00	ug/L
			Total Voc :	501					
			Total Concentration:	501					
Client ID:	**RE134D4-20250912DL**								

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Hit Summary Sheet
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SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Q3097-23DL	RE134D4-2025091	Water	1,1,2-Trichlorotrifluoroethane	440	D	2.50	5.00	10.0	ug/L
Q3097-23DL	RE134D4-2025091	Water	Trichloroethene	40.4	D	0.93	7.50	10.0	ug/L
Q3097-23DL	RE134D4-2025091	Water	Tetrachloroethene	30.1	D	2.30	5.00	10.0	ug/L
			Total Voc :	511					
			Total Concentration:	511					
Client ID:	**RE134D2-20250912**								
Q3097-24	RE134D2-2025091	Water	1,1,2-Trichlorotrifluoroethane	38.9		0.25	0.50	1.00	ug/L
Q3097-24	RE134D2-2025091	Water	Methyl tert-butyl Ether	0.33	J	0.16	0.50	1.00	ug/L
Q3097-24	RE134D2-2025091	Water	Methylene Chloride	0.29	J	0.28	0.50	1.00	ug/L
Q3097-24	RE134D2-2025091	Water	cis-1,2-Dichloroethene	3.30		0.19	0.75	1.00	ug/L
Q3097-24	RE134D2-2025091	Water	Trichloroethene	98.1		0.090	0.75	1.00	ug/L
Q3097-24	RE134D2-2025091	Water	Tetrachloroethene	45.6		0.23	0.50	1.00	ug/L
			Total Voc :	187					
			Total Concentration:	187					
Client ID:	**RE134D3-20250912**								
Q3097-25	RE134D3-2025091	Water	1,1,2-Trichlorotrifluoroethane	830	E	0.25	0.50	1.00	ug/L
Q3097-25	RE134D3-2025091	Water	1,1-Dichloroethene	6.40		0.23	0.75	1.00	ug/L
Q3097-25	RE134D3-2025091	Water	cis-1,2-Dichloroethene	5.60		0.19	0.75	1.00	ug/L
Q3097-25	RE134D3-2025091	Water	Trichloroethene	190	E	0.090	0.75	1.00	ug/L
Q3097-25	RE134D3-2025091	Water	1,2-Dichloropropane	1.10		0.20	0.50	1.00	ug/L
Q3097-25	RE134D3-2025091	Water	Tetrachloroethene	250	E	0.23	0.50	1.00	ug/L
			Total Voc :	1280					
			Total Concentration:	1280					
Client ID:	**RE134D3-20250912DL**								
Q3097-25DL	RE134D3-2025091	Water	1,1,2-Trichlorotrifluoroethane	670	D	2.50	5.00	10.0	ug/L
Q3097-25DL	RE134D3-2025091	Water	Trichloroethene	170	D	0.93	7.50	10.0	ug/L
Q3097-25DL	RE134D3-2025091	Water	Tetrachloroethene	210	D	2.30	5.00	10.0	ug/L
			Total Voc :	1050					
			Total Concentration:	1050					

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q3097-01	RE103D2-20250911	1,2-Dichloroethane-d4	50	61.0	122	*	81	118
		Dibromofluoromethane	50	55.3	111		80	119
		Toluene-d8	50	53.2	106		89	112
		4-Bromofluorobenzene	50	57.0	114		85	114
Q3097-01DL	RE103D2-20250911DL	1,2-Dichloroethane-d4	50	47.6	95		81	118
		Dibromofluoromethane	50	47.0	94		80	119
		Toluene-d8	50	48.0	96		89	112
		4-Bromofluorobenzene	50	53.1	106		85	114
Q3097-02MS	RE103D2-20250911MS	1,2-Dichloroethane-d4	50	57.2	114		81	118
		Dibromofluoromethane	50	57.7	115		80	119
		Toluene-d8	50	56.6	113	*	89	112
		4-Bromofluorobenzene	50	56.8	114		85	114
Q3097-03MSD	RE103D2-20250911MSD	1,2-Dichloroethane-d4	50	55.6	111		81	118
		Dibromofluoromethane	50	53.0	106		80	119
		Toluene-d8	50	53.1	106		89	112
		4-Bromofluorobenzene	50	53.8	108		85	114
Q3097-04	RE125D1-20250911	1,2-Dichloroethane-d4	50	47.1	94		81	118
		Dibromofluoromethane	50	44.8	90		80	119
		Toluene-d8	50	44.5	89		89	112
		4-Bromofluorobenzene	50	44.6	89		85	114
Q3097-05	RE125D3-20250911	1,2-Dichloroethane-d4	50	57.0	114		81	118
		Dibromofluoromethane	50	55.0	110		80	119
		Toluene-d8	50	55.1	110		89	112
		4-Bromofluorobenzene	50	55.5	111		85	114
Q3097-06	RE103D3-20250911	1,2-Dichloroethane-d4	50	55.5	111		81	118
		Dibromofluoromethane	50	52.6	105		80	119
		Toluene-d8	50	52.9	106		89	112
		4-Bromofluorobenzene	50	53.4	107		85	114
Q3097-07	RE108D2-20250911	1,2-Dichloroethane-d4	50	54.9	110		81	118
		Dibromofluoromethane	50	53.6	107		80	119
		Toluene-d8	50	49.9	100		89	112
		4-Bromofluorobenzene	50	51.5	103		85	114
Q3097-07DL	RE108D2-20250911DL	1,2-Dichloroethane-d4	50	59.5	119	*	81	118
		Dibromofluoromethane	50	58.8	118		80	119
		Toluene-d8	50	59.3	119	*	89	112
		4-Bromofluorobenzene	50	58.9	118	*	85	114
Q3097-08	RE125D2-20250911	1,2-Dichloroethane-d4	50	50.9	102		81	118
		Dibromofluoromethane	50	49.3	99		80	119
		Toluene-d8	50	48.3	97		89	112
		4-Bromofluorobenzene	50	49.5	99		85	114
Q3097-08DL	RE125D2-20250911DL	1,2-Dichloroethane-d4	50	52.2	104		81	118
		Dibromofluoromethane	50	52.3	105		80	119
		Toluene-d8	50	52.6	105		89	112
		4-Bromofluorobenzene	50	52.9	106		85	114
Q3097-09	RE108D1-20250911	1,2-Dichloroethane-d4	50	52.2	104		81	118
		Dibromofluoromethane	50	51.0	102		80	119
		Toluene-d8	50	51.4	103		89	112
		4-Bromofluorobenzene	50	51.4	103		85	114
Q3097-10	RE120D3-20250911	1,2-Dichloroethane-d4	50	53.7	107		81	118
		Dibromofluoromethane	50	54.1	108		80	119

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Fax : 908 789 8922

Surrogate Summary

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q3097-10	RE120D3-20250911	Toluene-d8	50	53.6	107		89	112
		4-Bromofluorobenzene	50	54.1	108		85	114
Q3097-11	RE105D1-20250911	1,2-Dichloroethane-d4	50	56.4	113		81	118
		Dibromofluoromethane	50	54.5	109		80	119
		Toluene-d8	50	54.4	109		89	112
		4-Bromofluorobenzene	50	55.1	110		85	114
Q3097-12	DUP04-20250911	1,2-Dichloroethane-d4	50	53.9	108		81	118
		Dibromofluoromethane	50	52.6	105		80	119
		Toluene-d8	50	52.7	105		89	112
		4-Bromofluorobenzene	50	52.8	106		85	114
Q3097-13	DUP05-20250911	1,2-Dichloroethane-d4	50	49.9	100		81	118
		Dibromofluoromethane	50	49.0	98		80	119
		Toluene-d8	50	47.9	96		89	112
		4-Bromofluorobenzene	50	48.9	98		85	114
Q3097-14	RE105D2-20250911	1,2-Dichloroethane-d4	50	49.9	100		81	118
		Dibromofluoromethane	50	48.7	97		80	119
		Toluene-d8	50	45.5	91		89	112
		4-Bromofluorobenzene	50	46.3	93		85	114
Q3097-14DL	RE105D2-20250911DL	1,2-Dichloroethane-d4	50	53.8	108		81	118
		Dibromofluoromethane	50	52.5	105		80	119
		Toluene-d8	50	53.0	106		89	112
		4-Bromofluorobenzene	50	53.1	106		85	114
Q3097-15	RE117D2-20250911	1,2-Dichloroethane-d4	50	51.1	102		81	118
		Dibromofluoromethane	50	47.6	95		80	119
		Toluene-d8	50	48.9	98		89	112
		4-Bromofluorobenzene	50	54.5	109		85	114
Q3097-16	TB03-20250911	1,2-Dichloroethane-d4	50	47.4	95		81	118
		Dibromofluoromethane	50	47.1	94		80	119
		Toluene-d8	50	47.5	95		89	112
		4-Bromofluorobenzene	50	53.2	106		85	114
Q3097-17	TB04-20250911	1,2-Dichloroethane-d4	50	51.0	102		81	118
		Dibromofluoromethane	50	47.6	95		80	119
		Toluene-d8	50	48.2	96		89	112
		4-Bromofluorobenzene	50	53.0	106		85	114
Q3097-18	TB05-20250912	1,2-Dichloroethane-d4	50	50.1	100		81	118
		Dibromofluoromethane	50	48.0	96		80	119
		Toluene-d8	50	48.8	98		89	112
		4-Bromofluorobenzene	50	54.2	108		85	114
Q3097-19	RE120D1-20250912	1,2-Dichloroethane-d4	50	51.9	104		81	118
		Dibromofluoromethane	50	48.3	97		80	119
		Toluene-d8	50	46.7	93		89	112
		4-Bromofluorobenzene	50	54.0	108		85	114
Q3097-19DL	RE120D1-20250912DL	1,2-Dichloroethane-d4	50	51.1	102		81	118
		Dibromofluoromethane	50	47.8	96		80	119
		Toluene-d8	50	48.8	98		89	112
		4-Bromofluorobenzene	50	53.9	108		85	114
Q3097-20	DUP06-20250912	1,2-Dichloroethane-d4	50	53.5	107		81	118
		Dibromofluoromethane	50	49.5	99		80	119
		Toluene-d8	50	46.9	94		89	112
		4-Bromofluorobenzene	50	53.9	108		85	114

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Surrogate Summary

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q3097-20DL	DUP06-20250912DL	1,2-Dichloroethane-d4	50	54.3	109		81	118
		Dibromofluoromethane	50	49.3	99		80	119
		Toluene-d8	50	48.8	98		89	112
		4-Bromofluorobenzene	50	56.4	113		85	114
Q3097-21	RE120D2-20250912	1,2-Dichloroethane-d4	50	50.3	101		81	118
		Dibromofluoromethane	50	47.3	95		80	119
		Toluene-d8	50	47.3	95		89	112
		4-Bromofluorobenzene	50	52.2	104		85	114
Q3097-21DL	RE120D2-20250912DL	1,2-Dichloroethane-d4	50	49.2	98		81	118
		Dibromofluoromethane	50	47.4	95		80	119
		Toluene-d8	50	48.1	96		89	112
		4-Bromofluorobenzene	50	51.3	103		85	114
Q3097-22	RE134D1-20250912	1,2-Dichloroethane-d4	50	50.9	102		81	118
		Dibromofluoromethane	50	48.1	96		80	119
		Toluene-d8	50	48.2	96		89	112
		4-Bromofluorobenzene	50	53.3	107		85	114
Q3097-23	RE134D4-20250912	1,2-Dichloroethane-d4	50	49.0	98		81	118
		Dibromofluoromethane	50	47.8	95		80	119
		Toluene-d8	50	48.3	97		89	112
		4-Bromofluorobenzene	50	54.0	108		85	114
Q3097-23DL	RE134D4-20250912DL	1,2-Dichloroethane-d4	50	52.7	105		81	118
		Dibromofluoromethane	50	47.9	96		80	119
		Toluene-d8	50	48.0	96		89	112
		4-Bromofluorobenzene	50	54.5	109		85	114
Q3097-24	RE134D2-20250912	1,2-Dichloroethane-d4	50	52.5	105		81	118
		Dibromofluoromethane	50	49.0	98		80	119
		Toluene-d8	50	48.5	97		89	112
		4-Bromofluorobenzene	50	55.1	110		85	114
Q3097-25	RE134D3-20250912	1,2-Dichloroethane-d4	50	51.8	104		81	118
		Dibromofluoromethane	50	46.8	94		80	119
		Toluene-d8	50	45.7	91		89	112
		4-Bromofluorobenzene	50	51.2	102		85	114
Q3097-25DL	RE134D3-20250912DL	1,2-Dichloroethane-d4	50	51.4	103		81	118
		Dibromofluoromethane	50	48.0	96		80	119
		Toluene-d8	50	48.0	96		89	112
		4-Bromofluorobenzene	50	53.9	108		85	114
Q3097-26	EB01-20250912	1,2-Dichloroethane-d4	50	47.3	95		81	118
		Dibromofluoromethane	50	47.0	94		80	119
		Toluene-d8	50	46.8	94		89	112
		4-Bromofluorobenzene	50	46.6	93		85	114
VX0919WBL01	VX0919WBL01	1,2-Dichloroethane-d4	50	57.8	116		81	118
		Dibromofluoromethane	50	52.5	105		80	119
		Toluene-d8	50	52.3	105		89	112
		4-Bromofluorobenzene	50	56.3	113		85	114
VX0919WBS01	VX0919WBS01	1,2-Dichloroethane-d4	50	53.2	106		81	118
		Dibromofluoromethane	50	54.2	108		80	119
		Toluene-d8	50	55.4	111		89	112
		4-Bromofluorobenzene	50	55.0	110		85	114
VX0922WBL01	VX0922WBL01	1,2-Dichloroethane-d4	50	47.2	94		81	118
		Dibromofluoromethane	50	48.1	96		80	119

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Surrogate Summary

SDG No.: Q3097

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
VX0922WBL01	VX0922WBL01	Toluene-d8	50	49.2	98		89	112
		4-Bromofluorobenzene	50	49.5	99		85	114
VX0922WBS01	VX0922WBS01	1,2-Dichloroethane-d4	50	55.1	110		81	118
		Dibromofluoromethane	50	55.0	110		80	119
		Toluene-d8	50	54.9	110		89	112
		4-Bromofluorobenzene	50	56.8	114		85	114
VX0923WBL01	VX0923WBL01	1,2-Dichloroethane-d4	50	50.6	101		81	118
		Dibromofluoromethane	50	47.7	95		80	119
		Toluene-d8	50	48.0	96		89	112
		4-Bromofluorobenzene	50	56.5	113		85	114
VX0923WBL02	VX0923WBL02	1,2-Dichloroethane-d4	50	51.7	103		81	118
		Dibromofluoromethane	50	50.8	102		80	119
		Toluene-d8	50	50.2	100		89	112
		4-Bromofluorobenzene	50	51.8	103		85	114
VX0923WBS02	VX0923WBS02	1,2-Dichloroethane-d4	50	45.0	90		81	118
		Dibromofluoromethane	50	46.1	92		80	119
		Toluene-d8	50	46.4	93		89	112
		4-Bromofluorobenzene	50	46.8	94		85	114
VX0923WBS03	VX0923WBS03	1,2-Dichloroethane-d4	50	49.0	98		81	118
		Dibromofluoromethane	50	50.7	101		80	119
		Toluene-d8	50	50.6	101		89	112
		4-Bromofluorobenzene	50	51.1	102		85	114
VX0924WBL01	VX0924WBL01	1,2-Dichloroethane-d4	50	49.1	98		81	118
		Dibromofluoromethane	50	47.0	94		80	119
		Toluene-d8	50	48.1	96		89	112
		4-Bromofluorobenzene	50	52.3	105		85	114
VX0924WBS01	VX0924WBS01	1,2-Dichloroethane-d4	50	53.0	106		81	118
		Dibromofluoromethane	50	55.4	111		80	119
		Toluene-d8	50	54.8	109		89	112
		4-Bromofluorobenzene	50	55.7	111		85	114

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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3097 **Analytical Method:** SW8260-Low

Client: AECOM Technical Services, In **Datafile :** VX047715.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q3097-02MS		**Client Sample ID : RE103D2-20250911MS**									
Dichlorodifluoromethane	50	0	64.1	ug/L	128				32	152	
Chloromethane	50	0	59.5	ug/L	119				50	139	
Vinyl chloride	50	0	60.1	ug/L	120				58	137	
Bromomethane	50	0	59.4	ug/L	119				53	141	
Chloroethane	50	0	56.2	ug/L	112				60	138	
Trichlorofluoromethane	50	0	55.9	ug/L	112				65	141	
1,1,2-Trichlorotrifluoroethane	50	3.00	59.7	ug/L	113				70	136	
1,1-Dichloroethene	50	0	56.5	ug/L	113				71	131	
Acetone	250	3.60	240	ug/L	95				39	160	
Carbon disulfide	50	0	57.7	ug/L	115				64	133	
Methyl tert-butyl Ether	50	0	56.0	ug/L	112				71	124	
Methyl Acetate	50	0	56.2	ug/L	112				56	136	
Methylene Chloride	50	0	55.3	ug/L	111				74	124	
trans-1,2-Dichloroethene	50	0	56.7	ug/L	113				75	124	
1,1-Dichloroethane	50	0	55.8	ug/L	112				77	125	
Cyclohexane	50	0	52.9	ug/L	106				71	130	
2-Butanone	250	2.90	290	ug/L	115				56	143	
Carbon Tetrachloride	50	0	52.2	ug/L	104				72	136	
cis-1,2-Dichloroethene	50	0	56.3	ug/L	113				78	123	
Bromochloromethane	50	0	62.0	ug/L	124	*			78	123	
Chloroform	50	0.25	55.4	ug/L	110				79	124	
1,1,1-Trichloroethane	50	0	54.4	ug/L	109				74	131	
Methylcyclohexane	50	0	51.2	ug/L	102				72	132	
Benzene	50	0	54.9	ug/L	110				79	120	
1,2-Dichloroethane	50	0	53.8	ug/L	108				73	128	
Trichloroethene	50	250	350	ug/L	200	*			79	123	
1,2-Dichloropropane	50	0	54.0	ug/L	108				78	122	
Bromodichloromethane	50	0	53.5	ug/L	107				79	125	
4-Methyl-2-Pentanone	250	0	290	ug/L	116				67	130	
Toluene	50	0	53.6	ug/L	107				80	121	
t-1,3-Dichloropropene	50	0	53.1	ug/L	106				73	127	
cis-1,3-Dichloropropene	50	0	52.4	ug/L	105				75	124	
1,1,2-Trichloroethane	50	0	54.6	ug/L	109				80	119	
2-Hexanone	250	0	280	ug/L	112				57	139	
Dibromochloromethane	50	0	55.7	ug/L	111				74	126	
1,2-Dibromoethane	50	0	56.8	ug/L	114				77	121	
Tetrachloroethene	50	0.87	52.5	ug/L	103				74	129	
Chlorobenzene	50	0	53.9	ug/L	108				82	118	
Ethyl Benzene	50	0	52.7	ug/L	105				79	121	
m/p-Xylenes	100	0	110	ug/L	110				80	121	
o-Xylene	50	0	53.8	ug/L	108				78	122	
Styrene	50	0	53.7	ug/L	107				78	123	
Bromoform	50	0	54.8	ug/L	110				66	130	
Isopropylbenzene	50	0	52.2	ug/L	104				72	131	
1,1,2,2-Tetrachloroethane	50	0	55.4	ug/L	111				71	121	

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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3097 **Analytical Method:** SW8260-Low

Client: AECOM Technical Services, In **Datafile :** VX047715.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	51.8	ug/L	104				80	119	
1,4-Dichlorobenzene	50	0	51.0	ug/L	102				79	118	
1,2-Dichlorobenzene	50	0	53.1	ug/L	106				80	119	
1,2-Dibromo-3-Chloropropane	50	0	53.7	ug/L	107				62	128	
1,2,4-Trichlorobenzene	50	0	51.0	ug/L	102				69	130	
1,2,3-Trichlorobenzene	50	0	50.6	ug/L	101				69	129	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3097 **Analytical Method:** SW8260-Low

Client: AECOM Technical Services, In **Datafile :** VX047716.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q3097-03MSD		**Client Sample ID : RE103D2-20250911MSD**									
Dichlorodifluoromethane	50	0	56.0	ug/L	112		13		32	152	20
Chloromethane	50	0	54.5	ug/L	109		9		50	139	20
Vinyl chloride	50	0	52.9	ug/L	106		13		58	137	20
Bromomethane	50	0	55.2	ug/L	110		7		53	141	20
Chloroethane	50	0	51.7	ug/L	103		8		60	138	20
Trichlorofluoromethane	50	0	49.7	ug/L	99		12		65	141	20
1,1,2-Trichlorotrifluoroethane	50	3.00	50.8	ug/L	96		16		70	136	20
1,1-Dichloroethene	50	0	50.9	ug/L	102		10		71	131	20
Acetone	250	3.60	210	ug/L	83		13		39	160	20
Carbon disulfide	50	0	52.6	ug/L	105		9		64	133	20
Methyl tert-butyl Ether	50	0	51.8	ug/L	104		8		71	124	20
Methyl Acetate	50	0	51.2	ug/L	102		9		56	136	20
Methylene Chloride	50	0	51.4	ug/L	103		7		74	124	20
trans-1,2-Dichloroethene	50	0	51.7	ug/L	103		9		75	124	20
1,1-Dichloroethane	50	0	51.2	ug/L	102		9		77	125	20
Cyclohexane	50	0	47.3	ug/L	95		11		71	130	20
2-Butanone	250	2.90	260	ug/L	103		11		56	143	20
Carbon Tetrachloride	50	0	45.5	ug/L	91		14		72	136	20
cis-1,2-Dichloroethene	50	0	52.0	ug/L	104		8		78	123	20
Bromochloromethane	50	0	52.8	ug/L	106		16		78	123	20
Chloroform	50	0.25	51.9	ug/L	103		7		79	124	20
1,1,1-Trichloroethane	50	0	50.4	ug/L	101		8		74	131	20
Methylcyclohexane	50	0	44.4	ug/L	89		14		72	132	20
Benzene	50	0	49.3	ug/L	99		11		79	120	20
1,2-Dichloroethane	50	0	47.7	ug/L	95		12		73	128	20
Trichloroethene	50	250	320	ug/L	140	*	35	*	79	123	20
1,2-Dichloropropane	50	0	48.9	ug/L	98		10		78	122	20
Bromodichloromethane	50	0	48.4	ug/L	97		10		79	125	20
4-Methyl-2-Pentanone	250	0	260	ug/L	104		11		67	130	20
Toluene	50	0	48.2	ug/L	96		11		80	121	20
t-1,3-Dichloropropene	50	0	48.0	ug/L	96		10		73	127	20
cis-1,3-Dichloropropene	50	0	47.9	ug/L	96		9		75	124	20
1,1,2-Trichloroethane	50	0	50.6	ug/L	101		8		80	119	20
2-Hexanone	250	0	250	ug/L	100		11		57	139	20
Dibromochloromethane	50	0	50.8	ug/L	102		9		74	126	20
1,2-Dibromoethane	50	0	52.6	ug/L	105		8		77	121	20
Tetrachloroethene	50	0.87	46.9	ug/L	92		11		74	129	20
Chlorobenzene	50	0	48.7	ug/L	97		10		82	118	20
Ethyl Benzene	50	0	48.1	ug/L	96		9		79	121	20
m/p-Xylenes	100	0	97.3	ug/L	97		12		80	121	20
o-Xylene	50	0	48.5	ug/L	97		10		78	122	20
Styrene	50	0	49.0	ug/L	98		9		78	123	20
Bromoform	50	0	50.3	ug/L	101		9		66	130	20
Isopropylbenzene	50	0	46.2	ug/L	92		12		72	131	20
1,1,2,2-Tetrachloroethane	50	0	50.1	ug/L	100		10		71	121	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3097 **Analytical Method:** SW8260-Low

Client: AECOM Technical Services, In **Datafile :** VX047716.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	46.8	ug/L	94		10		80	119	20
1,4-Dichlorobenzene	50	0	46.8	ug/L	94		9		79	118	20
1,2-Dichlorobenzene	50	0	47.7	ug/L	95		11		80	119	20
1,2-Dibromo-3-Chloropropane	50	0	49.5	ug/L	99		8		62	128	20
1,2,4-Trichlorobenzene	50	0	46.1	ug/L	92		10		69	130	20
1,2,3-Trichlorobenzene	50	0	46.6	ug/L	93		8		69	129	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8260-Low**
Client:	**AECOM Technical Services, Inc.**	**Datafile :**	VX047663.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0919WBS01	Dichlorodifluoromethane	20	24.4	ug/L	122			32	152	
	Chloromethane	20	21.9	ug/L	110			50	139	
	Vinyl chloride	20	21.8	ug/L	109			58	137	
	Bromomethane	20	23.0	ug/L	115			53	141	
	Chloroethane	20	20.5	ug/L	103			60	138	
	Trichlorofluoromethane	20	20.6	ug/L	103			65	141	
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/L	106			70	136	
	1,1-Dichloroethene	20	20.6	ug/L	103			71	131	
	Acetone	100	87.3	ug/L	87			39	160	
	Carbon disulfide	20	21.6	ug/L	108			64	133	
	Methyl tert-butyl Ether	20	19.6	ug/L	98			71	124	
	Methyl Acetate	20	19.4	ug/L	97			56	136	
	Methylene Chloride	20	19.5	ug/L	98			74	124	
	trans-1,2-Dichloroethene	20	20.8	ug/L	104			75	124	
	1,1-Dichloroethane	20	20.0	ug/L	100			77	125	
	Cyclohexane	20	20.4	ug/L	102			71	130	
	2-Butanone	100	98.8	ug/L	99			56	143	
	Carbon Tetrachloride	20	19.8	ug/L	99			72	136	
	cis-1,2-Dichloroethene	20	20.0	ug/L	100			78	123	
	Bromochloromethane	20	20.9	ug/L	104			78	123	
	Chloroform	20	20.0	ug/L	100			79	124	
	1,1,1-Trichloroethane	20	19.9	ug/L	100			74	131	
	Methylcyclohexane	20	20.5	ug/L	103			72	132	
	Benzene	20	20.1	ug/L	101			79	120	
	1,2-Dichloroethane	20	19.3	ug/L	97			73	128	
	Trichloroethene	20	20.0	ug/L	100			79	123	
	1,2-Dichloropropane	20	19.9	ug/L	100			78	122	
	Bromodichloromethane	20	19.7	ug/L	99			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	20.3	ug/L	102			80	121	
	t-1,3-Dichloropropene	20	19.3	ug/L	97			73	127	
	cis-1,3-Dichloropropene	20	19.6	ug/L	98			75	124	
	1,1,2-Trichloroethane	20	20.0	ug/L	100			80	119	
	2-Hexanone	100	100	ug/L	100			57	139	
	Dibromochloromethane	20	20.0	ug/L	100			74	126	
	1,2-Dibromoethane	20	20.5	ug/L	103			77	121	
	Tetrachloroethene	20	20.4	ug/L	102			74	129	
	Chlorobenzene	20	19.9	ug/L	100			82	118	
	Ethyl Benzene	20	20.4	ug/L	102			79	121	
	m/p-Xylenes	40	41.2	ug/L	103			80	121	
	o-Xylene	20	20.1	ug/L	101			78	122	
	Styrene	20	20.2	ug/L	101			78	123	
	Bromoform	20	19.9	ug/L	100			66	130	
	Isopropylbenzene	20	19.7	ug/L	99			72	131	
	1,1,2,2-Tetrachloroethane	20	19.9	ug/L	100			71	121	
	1,3-Dichlorobenzene	20	19.7	ug/L	99			80	119	
	1,4-Dichlorobenzene	20	19.5	ug/L	98			79	118	
	1,2-Dichlorobenzene	20	19.6	ug/L	98			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8260-Low**
Client:	**AECOM Technical Services, Inc.**	**Datafile :**	VX047663.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0919WBS01	1,2-Dibromo-3-Chloropropane	20	19.2	ug/L	96			62	128	
	1,2,4-Trichlorobenzene	20	18.8	ug/L	94			69	130	
	1,2,3-Trichlorobenzene	20	19.4	ug/L	97			69	129	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8260-Low**
Client:	**AECOM Technical Services, Inc.**	**Datafile :**	VX047692.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0922WBS01	Dichlorodifluoromethane	20	25.9	ug/L	130			32	152	
	Chloromethane	20	23.4	ug/L	117			50	139	
	Vinyl chloride	20	23.8	ug/L	119			58	137	
	Bromomethane	20	25.0	ug/L	125			53	141	
	Chloroethane	20	22.6	ug/L	113			60	138	
	Trichlorofluoromethane	20	22.5	ug/L	113			65	141	
	1,1,2-Trichlorotrifluoroethane	20	22.5	ug/L	113			70	136	
	1,1-Dichloroethene	20	22.4	ug/L	112			71	131	
	Acetone	100	90.1	ug/L	90			39	160	
	Carbon disulfide	20	23.3	ug/L	117			64	133	
	Methyl tert-butyl Ether	20	20.8	ug/L	104			71	124	
	Methyl Acetate	20	19.8	ug/L	99			56	136	
	Methylene Chloride	20	21.8	ug/L	109			74	124	
	trans-1,2-Dichloroethene	20	22.6	ug/L	113			75	124	
	1,1-Dichloroethane	20	22.0	ug/L	110			77	125	
	Cyclohexane	20	22.0	ug/L	110			71	130	
	2-Butanone	100	95.1	ug/L	95			56	143	
	Carbon Tetrachloride	20	20.8	ug/L	104			72	136	
	cis-1,2-Dichloroethene	20	22.0	ug/L	110			78	123	
	Bromochloromethane	20	22.6	ug/L	113			78	123	
	Chloroform	20	22.1	ug/L	111			79	124	
	1,1,1-Trichloroethane	20	21.9	ug/L	110			74	131	
	Methylcyclohexane	20	21.1	ug/L	106			72	132	
	Benzene	20	21.5	ug/L	108			79	120	
	1,2-Dichloroethane	20	20.4	ug/L	102			73	128	
	Trichloroethene	20	21.7	ug/L	109			79	123	
	1,2-Dichloropropane	20	21.4	ug/L	107			78	122	
	Bromodichloromethane	20	21.0	ug/L	105			79	125	
	4-Methyl-2-Pentanone	100	100	ug/L	100			67	130	
	Toluene	20	21.2	ug/L	106			80	121	
	t-1,3-Dichloropropene	20	20.6	ug/L	103			73	127	
	cis-1,3-Dichloropropene	20	21.1	ug/L	106			75	124	
	1,1,2-Trichloroethane	20	20.9	ug/L	104			80	119	
	2-Hexanone	100	96.6	ug/L	97			57	139	
	Dibromochloromethane	20	21.5	ug/L	108			74	126	
	1,2-Dibromoethane	20	21.4	ug/L	107			77	121	
	Tetrachloroethene	20	21.3	ug/L	106			74	129	
	Chlorobenzene	20	21.1	ug/L	106			82	118	
	Ethyl Benzene	20	20.8	ug/L	104			79	121	
	m/p-Xylenes	40	42.3	ug/L	106			80	121	
	o-Xylene	20	21.0	ug/L	105			78	122	
	Styrene	20	20.7	ug/L	104			78	123	
	Bromoform	20	20.7	ug/L	104			66	130	
	Isopropylbenzene	20	19.9	ug/L	100			72	131	
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98			71	121	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			80	119	
	1,4-Dichlorobenzene	20	19.8	ug/L	99			79	118	
	1,2-Dichlorobenzene	20	19.9	ug/L	100			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8260-Low**
Client:	**AECOM Technical Services, Inc.**	**Datafile :**	VX047692.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0922WBS01	1,2-Dibromo-3-Chloropropane	20	17.8	ug/L	89			62	128	
	1,2,4-Trichlorobenzene	20	18.3	ug/L	92			69	130	
	1,2,3-Trichlorobenzene	20	18.7	ug/L	94			69	129	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8260-Low**
Client:	**AECOM Technical Services, Inc.**	**Datafile :**	VX047723.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBS02	Dichlorodifluoromethane	20	19.2	ug/L	96			32	152	
	Chloromethane	20	17.6	ug/L	88			50	139	
	Vinyl chloride	20	17.4	ug/L	87			58	137	
	Bromomethane	20	18.5	ug/L	93			53	141	
	Chloroethane	20	16.5	ug/L	83			60	138	
	Trichlorofluoromethane	20	16.6	ug/L	83			65	141	
	1,1,2-Trichlorotrifluoroethane	20	17.1	ug/L	86			70	136	
	1,1-Dichloroethene	20	16.7	ug/L	84			71	131	
	Acetone	100	71.7	ug/L	72			39	160	
	Carbon disulfide	20	17.2	ug/L	86			64	133	
	Methyl tert-butyl Ether	20	16.3	ug/L	81			71	124	
	Methyl Acetate	20	16.6	ug/L	83			56	136	
	Methylene Chloride	20	16.4	ug/L	82			74	124	
	trans-1,2-Dichloroethene	20	17.0	ug/L	85			75	124	
	1,1-Dichloroethane	20	16.5	ug/L	83			77	125	
	Cyclohexane	20	16.7	ug/L	84			71	130	
	2-Butanone	100	78.7	ug/L	79			56	143	
	Carbon Tetrachloride	20	15.9	ug/L	79			72	136	
	cis-1,2-Dichloroethene	20	16.2	ug/L	81			78	123	
	Bromochloromethane	20	16.8	ug/L	84			78	123	
	Chloroform	20	16.6	ug/L	83			79	124	
	1,1,1-Trichloroethane	20	16.4	ug/L	82			74	131	
	Methylcyclohexane	20	17.3	ug/L	86			72	132	
	Benzene	20	16.7	ug/L	84			79	120	
	1,2-Dichloroethane	20	16.5	ug/L	83			73	128	
	Trichloroethene	20	17.5	ug/L	88			79	123	
	1,2-Dichloropropane	20	16.8	ug/L	84			78	122	
	Bromodichloromethane	20	16.6	ug/L	83			79	125	
	4-Methyl-2-Pentanone	100	86.0	ug/L	86			67	130	
	Toluene	20	16.9	ug/L	85			80	121	
	t-1,3-Dichloropropene	20	16.3	ug/L	81			73	127	
	cis-1,3-Dichloropropene	20	16.8	ug/L	84			75	124	
	1,1,2-Trichloroethane	20	17.2	ug/L	86			80	119	
	2-Hexanone	100	83.0	ug/L	83			57	139	
	Dibromochloromethane	20	17.2	ug/L	86			74	126	
	1,2-Dibromoethane	20	17.4	ug/L	87			77	121	
	Tetrachloroethene	20	17.1	ug/L	86			74	129	
	Chlorobenzene	20	16.7	ug/L	84			82	118	
	Ethyl Benzene	20	16.7	ug/L	84			79	121	
	m/p-Xylenes	40	33.9	ug/L	85			80	121	
	o-Xylene	20	16.9	ug/L	85			78	122	
	Styrene	20	16.6	ug/L	83			78	123	
	Bromoform	20	16.6	ug/L	83			66	130	
	Isopropylbenzene	20	16.4	ug/L	82			72	131	
	1,1,2,2-Tetrachloroethane	20	16.6	ug/L	83			71	121	
	1,3-Dichlorobenzene	20	16.9	ug/L	85			80	119	
	1,4-Dichlorobenzene	20	16.6	ug/L	83			79	118	
	1,2-Dichlorobenzene	20	16.7	ug/L	84			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8260-Low**
Client:	**AECOM Technical Services, Inc.**	**Datafile :**	VX047723.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBS02	1,2-Dibromo-3-Chloropropane	20	15.2	ug/L	76			62	128	
	1,2,4-Trichlorobenzene	20	16.2	ug/L	81			69	130	
	1,2,3-Trichlorobenzene	20	16.4	ug/L	82			69	129	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3097 **Analytical Method:** SW8260-Low

Client: AECOM Technical Services, Inc. **Datafile :** VX047748.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBS03	Dichlorodifluoromethane	20	23.6	ug/L	118			32	152	
	Chloromethane	20	21.7	ug/L	109			50	139	
	Vinyl chloride	20	22.4	ug/L	112			58	137	
	Bromomethane	20	23.5	ug/L	117			53	141	
	Chloroethane	20	21.0	ug/L	105			60	138	
	Trichlorofluoromethane	20	20.9	ug/L	104			65	141	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/L	105			70	136	
	1,1-Dichloroethene	20	21.2	ug/L	106			71	131	
	Acetone	100	87.7	ug/L	88			39	160	
	Carbon disulfide	20	20.9	ug/L	104			64	133	
	Methyl tert-butyl Ether	20	20.6	ug/L	103			71	124	
	Methyl Acetate	20	22.4	ug/L	112			56	136	
	Methylene Chloride	20	20.7	ug/L	104			74	124	
	trans-1,2-Dichloroethene	20	21.4	ug/L	107			75	124	
	1,1-Dichloroethane	20	21.0	ug/L	105			77	125	
	Cyclohexane	20	20.9	ug/L	104			71	130	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	19.7	ug/L	99			72	136	
	cis-1,2-Dichloroethene	20	20.9	ug/L	104			78	123	
	Bromochloromethane	20	19.1	ug/L	96			78	123	
	Chloroform	20	21.3	ug/L	106			79	124	
	1,1,1-Trichloroethane	20	21.2	ug/L	106			74	131	
	Methylcyclohexane	20	20.1	ug/L	101			72	132	
	Benzene	20	20.9	ug/L	104			79	120	
	1,2-Dichloroethane	20	20.4	ug/L	102			73	128	
	Trichloroethene	20	21.3	ug/L	106			79	123	
	1,2-Dichloropropane	20	21.0	ug/L	105			78	122	
	Bromodichloromethane	20	20.7	ug/L	104			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	21.1	ug/L	106			80	121	
	t-1,3-Dichloropropene	20	18.8	ug/L	94			73	127	
	cis-1,3-Dichloropropene	20	19.1	ug/L	96			75	124	
	1,1,2-Trichloroethane	20	21.7	ug/L	109			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	21.2	ug/L	106			74	126	
	1,2-Dibromoethane	20	22.0	ug/L	110			77	121	
	Tetrachloroethene	20	21.4	ug/L	107			74	129	
	Chlorobenzene	20	20.7	ug/L	104			82	118	
	Ethyl Benzene	20	20.8	ug/L	104			79	121	
	m/p-Xylenes	40	42.3	ug/L	106			80	121	
	o-Xylene	20	20.9	ug/L	104			78	122	
	Styrene	20	20.7	ug/L	104			78	123	
	Bromoform	20	20.9	ug/L	104			66	130	
	Isopropylbenzene	20	20.5	ug/L	103			72	131	
	1,1,2,2-Tetrachloroethane	20	21.6	ug/L	108			71	121	
	1,3-Dichlorobenzene	20	20.6	ug/L	103			80	119	
	1,4-Dichlorobenzene	20	20.5	ug/L	103			79	118	
	1,2-Dichlorobenzene	20	20.7	ug/L	104			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8260-Low**
Client:	**AECOM Technical Services, Inc.**	**Datafile :**	VX047748.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0923WBS03	1,2-Dibromo-3-Chloropropane	20	20.4	ug/L	102			62	128	
	1,2,4-Trichlorobenzene	20	19.8	ug/L	99			69	130	
	1,2,3-Trichlorobenzene	20	20.7	ug/L	104			69	129	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8260-Low**
Client:	**AECOM Technical Services, Inc.**	**Datafile :**	VX047772.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0924WBS01	Dichlorodifluoromethane	20	21.1	ug/L	106			32	152	
	Chloromethane	20	19.8	ug/L	99			50	139	
	Vinyl chloride	20	20.1	ug/L	101			58	137	
	Bromomethane	20	21.7	ug/L	109			53	141	
	Chloroethane	20	19.7	ug/L	99			60	138	
	Trichlorofluoromethane	20	19.1	ug/L	96			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			70	136	
	1,1-Dichloroethene	20	19.4	ug/L	97			71	131	
	Acetone	100	94.5	ug/L	95			39	160	
	Carbon disulfide	20	19.8	ug/L	99			64	133	
	Methyl tert-butyl Ether	20	19.6	ug/L	98			71	124	
	Methyl Acetate	20	20.7	ug/L	104			56	136	
	Methylene Chloride	20	20.1	ug/L	101			74	124	
	trans-1,2-Dichloroethene	20	20.3	ug/L	102			75	124	
	1,1-Dichloroethane	20	19.5	ug/L	98			77	125	
	Cyclohexane	20	18.9	ug/L	95			71	130	
	2-Butanone	100	100	ug/L	100			56	143	
	Carbon Tetrachloride	20	18.5	ug/L	93			72	136	
	cis-1,2-Dichloroethene	20	20.0	ug/L	100			78	123	
	Bromochloromethane	20	21.0	ug/L	105			78	123	
	Chloroform	20	20.1	ug/L	101			79	124	
	1,1,1-Trichloroethane	20	19.6	ug/L	98			74	131	
	Methylcyclohexane	20	18.4	ug/L	92			72	132	
	Benzene	20	20.0	ug/L	100			79	120	
	1,2-Dichloroethane	20	19.1	ug/L	96			73	128	
	Trichloroethene	20	19.8	ug/L	99			79	123	
	1,2-Dichloropropane	20	19.9	ug/L	100			78	122	
	Bromodichloromethane	20	19.6	ug/L	98			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	19.8	ug/L	99			80	121	
	t-1,3-Dichloropropene	20	19.0	ug/L	95			73	127	
	cis-1,3-Dichloropropene	20	19.7	ug/L	99			75	124	
	1,1,2-Trichloroethane	20	20.8	ug/L	104			80	119	
	2-Hexanone	100	100	ug/L	100			57	139	
	Dibromochloromethane	20	20.1	ug/L	101			74	126	
	1,2-Dibromoethane	20	21.2	ug/L	106			77	121	
	Tetrachloroethene	20	19.1	ug/L	96			74	129	
	Chlorobenzene	20	19.6	ug/L	98			82	118	
	Ethyl Benzene	20	19.1	ug/L	96			79	121	
	m/p-Xylenes	40	38.5	ug/L	96			80	121	
	o-Xylene	20	19.4	ug/L	97			78	122	
	Styrene	20	19.3	ug/L	97			78	123	
	Bromoform	20	19.6	ug/L	98			66	130	
	Isopropylbenzene	20	18.7	ug/L	94			72	131	
	1,1,2,2-Tetrachloroethane	20	20.2	ug/L	101			71	121	
	1,3-Dichlorobenzene	20	19.1	ug/L	96			80	119	
	1,4-Dichlorobenzene	20	18.8	ug/L	94			79	118	
	1,2-Dichlorobenzene	20	19.6	ug/L	98			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3097**	**Analytical Method:**	**SW8260-Low**
Client:	**AECOM Technical Services, Inc.**	**Datafile :**	VX047772.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0924WBS01	1,2-Dibromo-3-Chloropropane	20	18.5	ug/L	93			62	128	
	1,2,4-Trichlorobenzene	20	18.9	ug/L	95			69	130	
	1,2,3-Trichlorobenzene	20	19.0	ug/L	95			69	129	

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0919WBL01

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047662.D Lab Sample ID: VX0919WBL01

Date Analyzed: 09/19/2025 Time Analyzed: 10:11

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0919WBS01	VX0919WBS01	VX047663.D	09/19/2025
RE125D1-20250911	Q3097-04	VX047676.D	09/19/2025
RE125D3-20250911	Q3097-05	VX047677.D	09/19/2025
RE103D3-20250911	Q3097-06	VX047678.D	09/19/2025
RE108D2-20250911	Q3097-07	VX047679.D	09/19/2025
RE125D2-20250911	Q3097-08	VX047680.D	09/19/2025
RE105D1-20250911	Q3097-11	VX047683.D	09/19/2025
DUP04-20250911	Q3097-12	VX047684.D	09/19/2025
DUP05-20250911	Q3097-13	VX047685.D	09/19/2025
RE105D2-20250911	Q3097-14	VX047686.D	09/19/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0922WBL01

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047691.D Lab Sample ID: VX0922WBL01

Date Analyzed: 09/22/2025 Time Analyzed: 10:27

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0922WBS01	VX0922WBS01	VX047692.D	09/22/2025
RE125D2-20250911DL	Q3097-08DL	VX047693.D	09/22/2025
RE108D2-20250911DL	Q3097-07DL	VX047695.D	09/22/2025
RE105D2-20250911DL	Q3097-14DL	VX047696.D	09/22/2025
RE108D1-20250911	Q3097-09	VX047697.D	09/22/2025
RE120D3-20250911	Q3097-10	VX047698.D	09/22/2025
EB01-20250912	Q3097-26	VX047699.D	09/22/2025
RE103D2-20250911	Q3097-01	VX047714.D	09/22/2025
RE103D2-20250911MS	Q3097-02MS	VX047715.D	09/22/2025
RE103D2-20250911MSD	Q3097-03MSD	VX047716.D	09/22/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0923WBL01

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047721.D Lab Sample ID: VX0923WBL01

Date Analyzed: 09/23/2025 Time Analyzed: 10:22

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0923WBS02	VX0923WBS02	VX047723.D	09/23/2025
RE103D2-20250911DL	Q3097-01DL	VX047724.D	09/23/2025
TB05-20250912	Q3097-18	VX047728.D	09/23/2025
TB03-20250911	Q3097-16	VX047729.D	09/23/2025
RE117D2-20250911	Q3097-15	VX047735.D	09/23/2025
TB04-20250911	Q3097-17	VX047736.D	09/23/2025
RE120D1-20250912	Q3097-19	VX047737.D	09/23/2025
DUP06-20250912	Q3097-20	VX047738.D	09/23/2025
RE120D2-20250912	Q3097-21	VX047739.D	09/23/2025
RE134D1-20250912	Q3097-22	VX047740.D	09/23/2025
RE134D4-20250912	Q3097-23	VX047741.D	09/23/2025
RE134D2-20250912	Q3097-24	VX047742.D	09/23/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0923WBL02

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047747.D Lab Sample ID: VX0923WBL02

Date Analyzed: 09/24/2025 Time Analyzed: 03:11

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0923WBS03	VX0923WBS03	VX047748.D	09/24/2025
RE134D3-20250912	Q3097-25	VX047763.D	09/24/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0924WBL01

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047771.D Lab Sample ID: VX0924WBL01

Date Analyzed: 09/24/2025 Time Analyzed: 13:04

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0924WBS01	VX0924WBS01	VX047772.D	09/24/2025
RE120D2-20250912DL	Q3097-21DL	VX047773.D	09/24/2025
RE120D1-20250912DL	Q3097-19DL	VX047775.D	09/24/2025
DUP06-20250912DL	Q3097-20DL	VX047776.D	09/24/2025
RE134D4-20250912DL	Q3097-23DL	VX047777.D	09/24/2025
RE134D3-20250912DL	Q3097-25DL	VX047778.D	09/24/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: AECO15
Lab Code: ACE
SDG NO.: Q3097
Lab File ID: VX047584.D
BFB Injection Date: 09/16/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:56
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	67.3
175	5.0 - 9.0% of mass 174	5.4 (8.1) 1
176	95.0 - 101.0% of mass 174	66.3 (98.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX047585.D	09/16/2025	09:23
VSTDICC005	VSTDICC005	VX047586.D	09/16/2025	10:16
VSTDICC020	VSTDICC020	VX047587.D	09/16/2025	10:37
VSTDICCC050	VSTDICCC050	VX047588.D	09/16/2025	10:58
VSTDICC100	VSTDICC100	VX047589.D	09/16/2025	11:40
VSTDICC150	VSTDICC150	VX047590.D	09/16/2025	12:01

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: AECO15
Lab Code: ACE
SDG NO.: Q3097
Lab File ID: VX047659.D
BFB Injection Date: 09/19/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:17
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.1
75	30.0 - 60.0% of mass 95	51.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	69.8
175	5.0 - 9.0% of mass 174	5 (7.2) 1
176	95.0 - 101.0% of mass 174	66.6 (95.4) 1
177	5.0 - 9.0% of mass 176	4.5 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047660.D	09/19/2025	09:22
VX0919WBL01	VX0919WBL01	VX047662.D	09/19/2025	10:11
VX0919WBS01	VX0919WBS01	VX047663.D	09/19/2025	10:38
RE125D1-20250911	Q3097-04	VX047676.D	09/19/2025	15:15
RE125D3-20250911	Q3097-05	VX047677.D	09/19/2025	15:36
RE103D3-20250911	Q3097-06	VX047678.D	09/19/2025	15:57
RE108D2-20250911	Q3097-07	VX047679.D	09/19/2025	16:17
RE125D2-20250911	Q3097-08	VX047680.D	09/19/2025	16:38
RE105D1-20250911	Q3097-11	VX047683.D	09/19/2025	17:40
DUP04-20250911	Q3097-12	VX047684.D	09/19/2025	18:01
DUP05-20250911	Q3097-13	VX047685.D	09/19/2025	18:22
RE105D2-20250911	Q3097-14	VX047686.D	09/19/2025	18:42
VSTDCCC050EC	VSTDCCC050	VX047687.D	09/19/2025	19:03

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG NO.:	Q3097
Lab File ID:	VX047688.D	BFB Injection Date:	09/22/2025
Instrument ID:	MSVOA_X	BFB Injection Time:	09:07
GC Column:	DB-624UI ID: 0.18 (mm)	Heated Purge: Y/N	N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20
75	30.0 - 60.0% of mass 95	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	68
175	5.0 - 9.0% of mass 174	4.9 (7.2) 1
176	95.0 - 101.0% of mass 174	64.7 (95.1) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047689.D	09/22/2025	09:38
VX0922WBL01	VX0922WBL01	VX047691.D	09/22/2025	10:27
VX0922WBS01	VX0922WBS01	VX047692.D	09/22/2025	10:54
RE125D2-20250911DL	Q3097-08DL	VX047693.D	09/22/2025	11:21
RE108D2-20250911DL	Q3097-07DL	VX047695.D	09/22/2025	12:03
RE105D2-20250911DL	Q3097-14DL	VX047696.D	09/22/2025	12:23
RE108D1-20250911	Q3097-09	VX047697.D	09/22/2025	12:44
RE120D3-20250911	Q3097-10	VX047698.D	09/22/2025	13:05
EB01-20250912	Q3097-26	VX047699.D	09/22/2025	13:25
RE103D2-20250911	Q3097-01	VX047714.D	09/22/2025	18:37
RE103D2-20250911MS	Q3097-02MS	VX047715.D	09/22/2025	18:58
RE103D2-20250911MSD	Q3097-03MSD	VX047716.D	09/22/2025	19:19
VSTDCCC050EC	VSTDCCC050	VX047717.D	09/22/2025	19:40

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: AECO15
Lab Code: ACE
SDG NO.: Q3097
Lab File ID: VX047718.D
BFB Injection Date: 09/23/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:05
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	51.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	68.2
175	5.0 - 9.0% of mass 174	5.3 (7.8) 1
176	95.0 - 101.0% of mass 174	66.3 (97.2) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047719.D	09/23/2025	09:02
VX0923WBL01	VX0923WBL01	VX047721.D	09/23/2025	10:22
VX0923WBS02	VX0923WBS02	VX047723.D	09/23/2025	11:15
RE103D2-20250911DL	Q3097-01DL	VX047724.D	09/23/2025	11:36
TB05-20250912	Q3097-18	VX047728.D	09/23/2025	13:25
TB03-20250911	Q3097-16	VX047729.D	09/23/2025	13:46
RE117D2-20250911	Q3097-15	VX047735.D	09/23/2025	15:52
TB04-20250911	Q3097-17	VX047736.D	09/23/2025	16:13
RE120D1-20250912	Q3097-19	VX047737.D	09/23/2025	16:34
DUP06-20250912	Q3097-20	VX047738.D	09/23/2025	16:55
RE120D2-20250912	Q3097-21	VX047739.D	09/23/2025	17:16
RE134D1-20250912	Q3097-22	VX047740.D	09/23/2025	17:36
RE134D4-20250912	Q3097-23	VX047741.D	09/23/2025	17:57
RE134D2-20250912	Q3097-24	VX047742.D	09/23/2025	18:18
VSTDCCC050EC	VSTDCCC050	VX047744.D	09/23/2025	19:00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: AECO15
Lab Code: ACE
SDG NO.: Q3097
Lab File ID: VX047745.D
BFB Injection Date: 09/24/2025
Instrument ID: MSVOA_X
BFB Injection Time: 01:30
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	68
175	5.0 - 9.0% of mass 174	5 (7.4) 1
176	95.0 - 101.0% of mass 174	65.9 (97) 1
177	5.0 - 9.0% of mass 176	4.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047746.D	09/24/2025	02:08
VX0923WBL02	VX0923WBL02	VX047747.D	09/24/2025	03:11
VX0923WBS03	VX0923WBS03	VX047748.D	09/24/2025	03:53
RE134D3-20250912	Q3097-25	VX047763.D	09/24/2025	09:25
VSTDCCC050EC	VSTDCCC050	VX047767.D	09/24/2025	10:50

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: AECO15
Lab Code: ACE
SDG NO.: Q3097
Lab File ID: VX047768.D
BFB Injection Date: 09/24/2025
Instrument ID: MSVOA_X
BFB Injection Time: 11:16
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	75
175	5.0 - 9.0% of mass 174	5.6 (7.5) 1
176	95.0 - 101.0% of mass 174	73.3 (97.6) 1
177	5.0 - 9.0% of mass 176	4.7 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047769.D	09/24/2025	11:46
VX0924WBL01	VX0924WBL01	VX047771.D	09/24/2025	13:04
VX0924WBS01	VX0924WBS01	VX047772.D	09/24/2025	13:59
RE120D2-20250912DL	Q3097-21DL	VX047773.D	09/24/2025	14:20
RE120D1-20250912DL	Q3097-19DL	VX047775.D	09/24/2025	15:02
DUP06-20250912DL	Q3097-20DL	VX047776.D	09/24/2025	15:23
RE134D4-20250912DL	Q3097-23DL	VX047777.D	09/24/2025	15:44
RE134D3-20250912DL	Q3097-25DL	VX047778.D	09/24/2025	16:05

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047660.D Date Analyzed: 09/19/2025

Instrument ID: MSVOA_X Time Analyzed: 09:22

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	168285	5.53	306730	6.74	272268	10.04
UPPER LIMIT	336570	6.032	613460	7.239	544536	10.537
LOWER LIMIT	84142.5	5.032	153365	6.239	136134	9.537
EPA SAMPLE NO.						
RE125D1-20250911	181680	5.54	337276	6.75	303934	10.04
RE125D3-20250911	174878	5.54	323460	6.75	294926	10.04
RE103D3-20250911	166867	5.54	308997	6.75	279494	10.04
RE108D2-20250911	180253	5.54	329994	6.75	279542	10.04
RE125D2-20250911	176923	5.54	328094	6.75	294939	10.04
RE105D1-20250911	171618	5.54	317965	6.75	289328	10.04
DUP04-20250911	172337	5.54	315489	6.75	287627	10.04
DUP05-20250911	181407	5.54	335366	6.75	298999	10.04
RE105D2-20250911	177032	5.54	325665	6.75	279784	10.04
VX0919WBL01	194256	5.54	363806	6.75	339161	10.04
VX0919WBS01	190485	5.53	337411	6.75	298577	10.04

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047660.D Date Analyzed: 09/19/2025

Instrument ID: MSVOA_X Time Analyzed: 09:22

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	129778	12.006				
UPPER LIMIT	259556	12.506				
LOWER LIMIT	64889	11.506				
EPA SAMPLE NO.						
RE125D1-20250911	146768	12.01				
RE125D3-20250911	143358	12.01				
RE103D3-20250911	134673	12.01				
RE108D2-20250911	137704	12.01				
RE125D2-20250911	144012	12.01				
RE105D1-20250911	137612	12.01				
DUP04-20250911	140501	12.01				
DUP05-20250911	146680	12.01				
RE105D2-20250911	134519	12.01				
VX0919WBL01	175228	12.01				
VX0919WBS01	146041	12.01				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047689.D Date Analyzed: 09/22/2025

Instrument ID: MSVOA_X Time Analyzed: 09:38

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	186088	5.53	326997	6.74	282237	10.04
UPPER LIMIT	372176	6.032	653994	7.239	564474	10.537
LOWER LIMIT	93044	5.032	163499	6.239	141119	9.537
EPA SAMPLE NO.						
RE103D2-20250911	170097	5.54	325449	6.75	301928	10.04
RE103D2-20250911MS	149702	5.54	270395	6.75	241438	10.04
RE103D2-20250911MSD	151448	5.54	285571	6.75	256927	10.04
RE108D2-20250911DL	212599	5.54	386271	6.75	344934	10.04
RE125D2-20250911DL	210054	5.54	374235	6.75	336300	10.04
RE108D1-20250911	188813	5.54	347701	6.75	313912	10.04
RE120D3-20250911	186167	5.54	335374	6.75	304338	10.04
RE105D2-20250911DL	199018	5.54	365741	6.75	330943	10.04
EB01-20250912	187967	5.54	340659	6.75	310536	10.04
VX0922WBL01	207294	5.54	374581	6.75	340485	10.04
VX0922WBS01	172067	5.53	311516	6.75	283214	10.04

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047689.D Date Analyzed: 09/22/2025

Instrument ID: MSVOA_X Time Analyzed: 09:38

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	135594	12.006				
UPPER LIMIT	271188	12.506				
LOWER LIMIT	67797	11.506				
EPA SAMPLE NO.						
RE103D2-20250911	156017	12.01				
RE103D2-20250911MS	116537	12.01				
RE103D2-20250911MSD	125295	12.01				
RE108D2-20250911DL	168884	12.01				
RE125D2-20250911DL	163574	12.01				
RE108D1-20250911	152363	12.01				
RE120D3-20250911	149631	12.01				
RE105D2-20250911DL	159199	12.01				
EB01-20250912	150335	12.01				
VX0922WBL01	164144	12.01				
VX0922WBS01	141526	12.00				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047719.D Date Analyzed: 09/23/2025

Instrument ID: MSVOA_X Time Analyzed: 09:02

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	145672	5.53	265022	6.74	235703	10.04
UPPER LIMIT	291344	6.031	530044	7.239	471406	10.537
LOWER LIMIT	72836	5.031	132511	6.239	117852	9.537
EPA SAMPLE NO.						
RE103D2-20250911DL	133561	5.54	270653	6.75	268877	10.04
RE117D2-20250911	134799	5.54	280775	6.75	282111	10.04
TB03-20250911	143699	5.54	290210	6.75	290111	10.04
TB04-20250911	129298	5.54	272633	6.75	271011	10.04
TB05-20250912	147598	5.54	303576	6.75	304061	10.04
RE120D1-20250912	133765	5.54	281791	6.75	275514	10.04
DUP06-20250912	134457	5.54	282290	6.75	281029	10.04
RE120D2-20250912	127092	5.54	268101	6.75	262928	10.04
RE134D1-20250912	132076	5.54	279533	6.75	278696	10.04
RE134D4-20250912	139747	5.54	290603	6.75	290148	10.04
RE134D2-20250912	144829	5.54	302539	6.75	304106	10.04
VX0923WBL01	119065	5.53	248954	6.74	254277	10.04
VX0923WBS02	181787	5.53	322664	6.75	289792	10.04

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047719.D Date Analyzed: 09/23/2025

Instrument ID: MSVOA_X Time Analyzed: 09:02

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	115061	12.006				
UPPER LIMIT	230122	12.506				
LOWER LIMIT	57530.5	11.506				
EPA SAMPLE NO.						
RE103D2-20250911DL	132316	12.01				
RE117D2-20250911	143533	12.01				
TB03-20250911	146254	12.01				
TB04-20250911	135735	12.01				
TB05-20250912	151284	12.01				
RE120D1-20250912	141902	12.01				
DUP06-20250912	141279	12.01				
RE120D2-20250912	131853	12.01				
RE134D1-20250912	139922	12.01				
RE134D4-20250912	144658	12.01				
RE134D2-20250912	155005	12.01				
VX0923WBL01	132951	12.01				
VX0923WBS02	141661	12.01				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047746.D Date Analyzed: 09/24/2025

Instrument ID: MSVOA_X Time Analyzed: 02:08

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	166745	5.53	290663	6.74	252770	10.04
UPPER LIMIT	333490	6.032	581326	7.239	505540	10.537
LOWER LIMIT	83372.5	5.032	145332	6.239	126385	9.537
EPA SAMPLE NO.						
RE134D3-20250912	124480	5.54	269681	6.75	267242	10.04
VX0923WBL02	197095	5.54	377977	6.75	356070	10.04
VX0923WBS03	156932	5.54	284011	6.75	253957	10.04

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047746.D Date Analyzed: 09/24/2025

Instrument ID: MSVOA_X Time Analyzed: 02:08

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	121948	12.006				
UPPER LIMIT	243896	12.506				
LOWER LIMIT	60974	11.506				
EPA SAMPLE NO.						
RE134D3-20250912	134755	12.01				
VX0923WBL02	171478	12.01				
VX0923WBS03	123765	12.01				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

 # Column used to flag values outside QC limits with an asterisk.
*** Values outside of QC limits.**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047769.D Date Analyzed: 09/24/2025

Instrument ID: MSVOA_X Time Analyzed: 11:46

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	144936	5.53	262651	6.75	234932	10.04
UPPER LIMIT	289872	6.032	525302	7.245	469864	10.537
LOWER LIMIT	72468	5.032	131326	6.245	117466	9.537
EPA SAMPLE NO.						
RE120D1-20250912DL	131595	5.54	275490	6.75	279019	10.04
DUP06-20250912DL	131907	5.54	284626	6.75	292272	10.04
RE120D2-20250912DL	130255	5.54	274677	6.75	272538	10.04
RE134D4-20250912DL	133853	5.54	286287	6.75	290978	10.04
RE134D3-20250912DL	133917	5.54	281574	6.75	283549	10.04
VX0924WBL01	121515	5.53	250677	6.75	250409	10.04
VX0924WBS01	160966	5.54	287921	6.75	264714	10.04

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG NO.: Q3097

Lab File ID: VX047769.D Date Analyzed: 09/24/2025

Instrument ID: MSVOA_X Time Analyzed: 11:46

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	114093	12.006				
UPPER LIMIT	228186	12.506				
LOWER LIMIT	57046.5	11.506				
EPA SAMPLE NO.						
RE120D1-20250912DL	140354	12.01				
DUP06-20250912DL	149875	12.01				
RE120D2-20250912DL	133342	12.01				
RE134D4-20250912DL	148581	12.01				
RE134D3-20250912DL	143934	12.01				
VX0924WBL01	123109	12.01				
VX0924WBS01	129236	12.01				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047714.D	1	09/22/25 18:37	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	3.00		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.60	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.90	J	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	UM	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.25	J	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	250	EM	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047714.D	1	09/22/25 18:37	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.87	J	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	61.0	*	81 - 118		122%	SPK: 50
1868-53-7	Dibromofluoromethane	55.3		80 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	53.2		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.0		85 - 114		114%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	170000	5.544				
540-36-3	1,4-Difluorobenzene	325000	6.751				
3114-55-4	Chlorobenzene-d5	302000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	156000	12.006				

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047714.D	1	09/22/25 18:37	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047714.D
Acq On : 22 Sep 2025 18:37
Operator : JC/MD
Sample : Q3097-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Quant Time: Sep 23 01:41:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

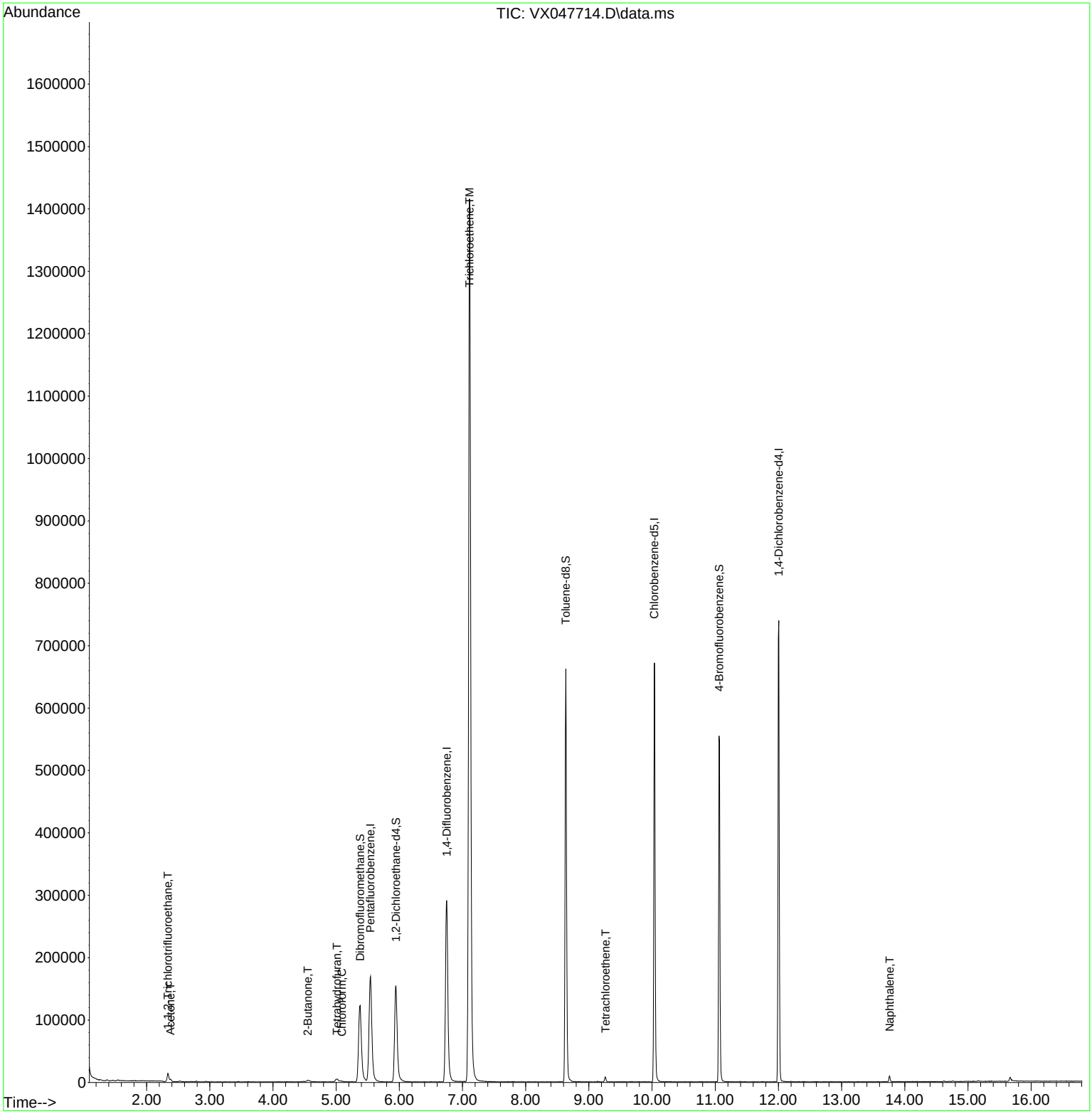
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	170097	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	325449	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	301928	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	156017	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	165106	60.981	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 121.960%#			
35) Dibromofluoromethane	5.379	113	120701	55.300	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.600%			
50) Toluene-d8	8.635	98	401455	53.156	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.320%			
62) 4-Bromofluorobenzene	11.061	95	163320	56.980	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.960%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	5948	3.023	ug/l	99
16) Acetone	2.380	43	4180	3.551	ug/l #	86
25) 2-Butanone	4.550	43	4251	2.895	ug/l #	78
29) Tetrahydrofuran	5.013	42	5930	6.713	ug/l	90
30) Chloroform	5.092	83	1101	0.254	ug/l	94
44) Trichloroethene	7.110	130	587164	250.718	ug/l	96
64) Tetrachloroethene	9.262	164	1713	0.870	ug/l #	92
95) Naphthalene	13.762	128	6878	0.672	ug/l	97

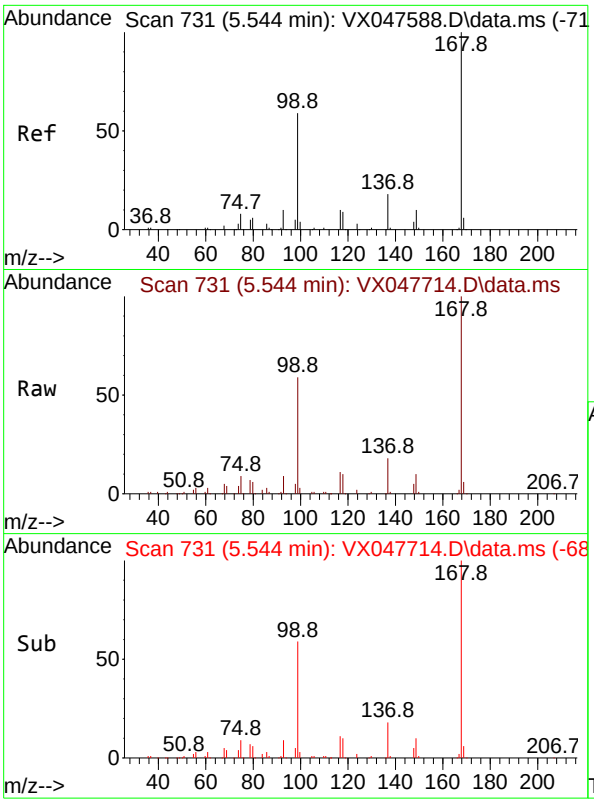
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047714.D
Acq On : 22 Sep 2025 18:37
Operator : JC/MD
Sample : Q3097-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Quant Time: Sep 23 01:41:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



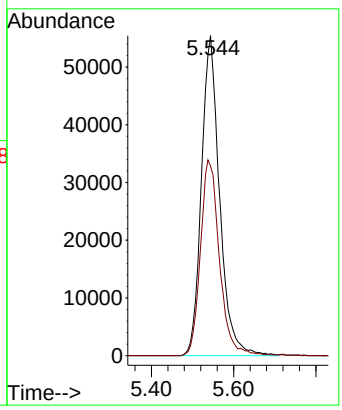


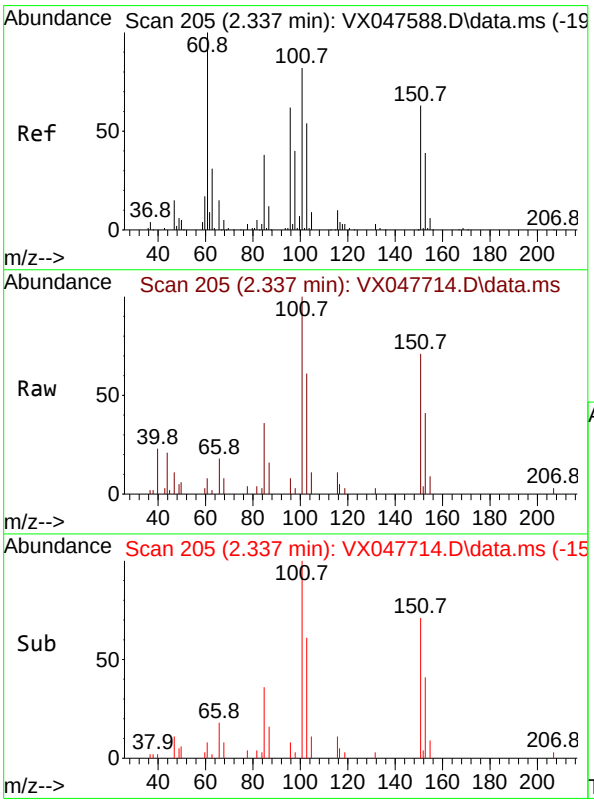
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Tgt Ion:168 Resp: 170097

Ion	Ratio	Lower	Upper
168	100		
99	59.2	48.8	73.2

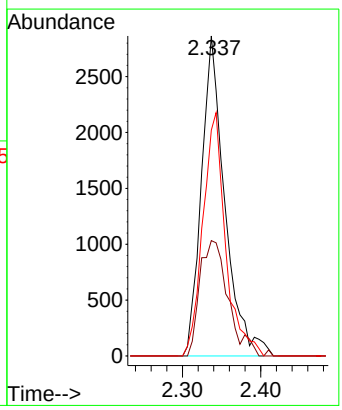


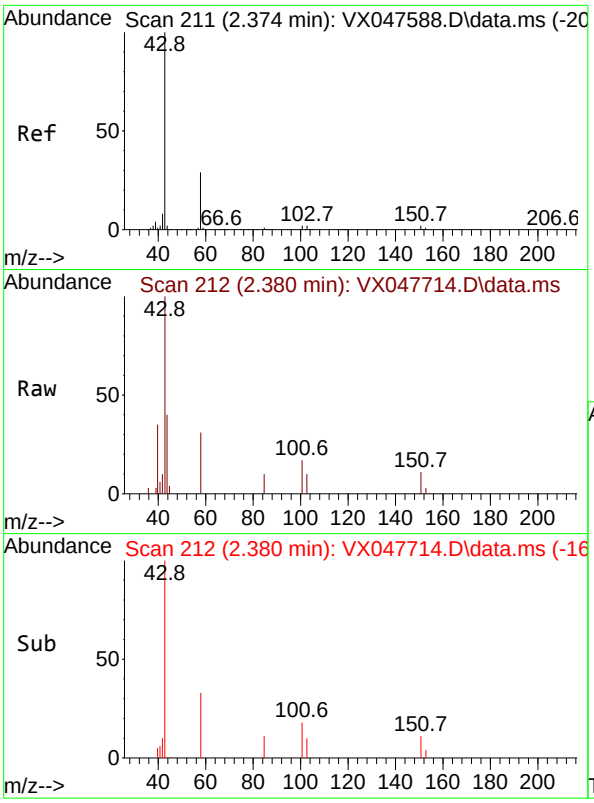


#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.023 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Tgt Ion:101 Resp: 5948

Ion	Ratio	Lower	Upper
101	100		
85	43.5	35.5	53.3
151	73.6	59.4	89.0



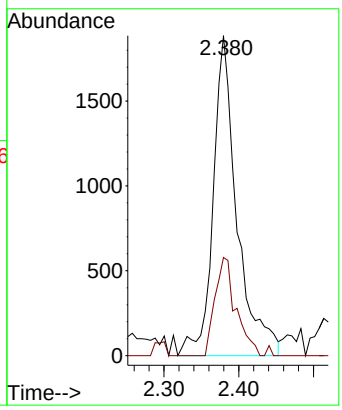


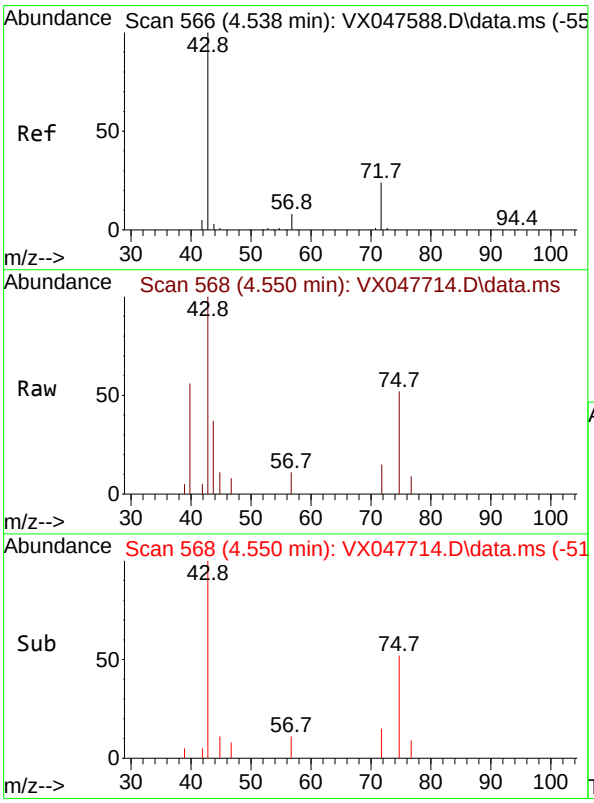
#16
Acetone
Concen: 3.551 ug/l
RT: 2.380 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Tgt Ion: 43 Resp: 4180

Ion	Ratio	Lower	Upper
43	100		
58	21.9	23.4	35.0#

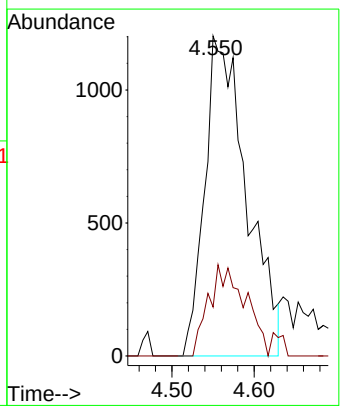


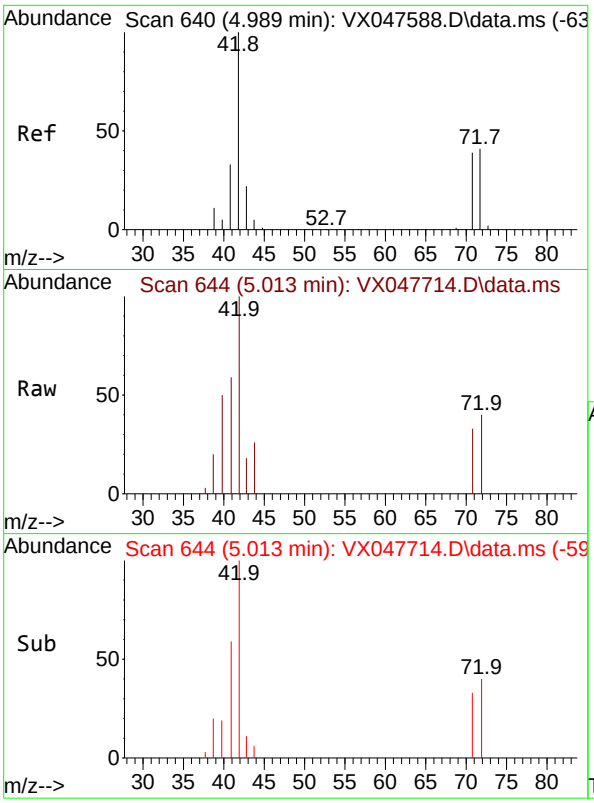


#25
2-Butanone
Concen: 2.895 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.012 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Tgt Ion: 43 Resp: 4251

Ion	Ratio	Lower	Upper
43	100		
72	14.2	20.1	30.1#



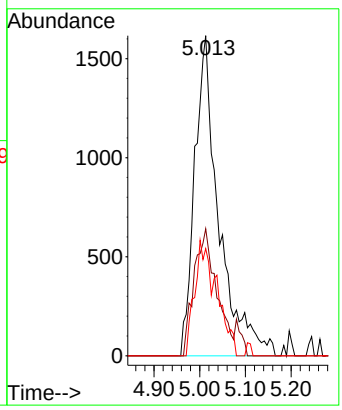


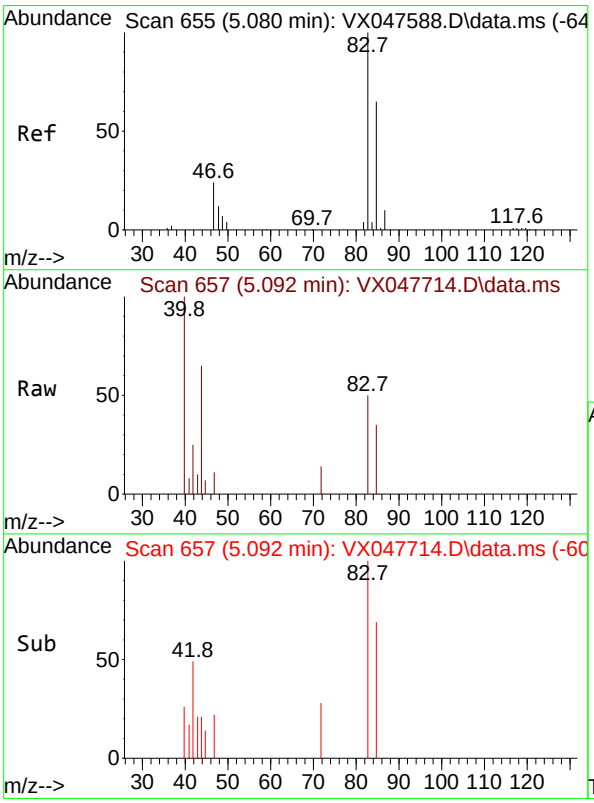
#29
Tetrahydrofuran
Concen: 6.713 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.024 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Tgt Ion: 42 Resp: 5930

Ion	Ratio	Lower	Upper
42	100		
72	37.3	34.2	51.2
71	33.1	31.9	47.9

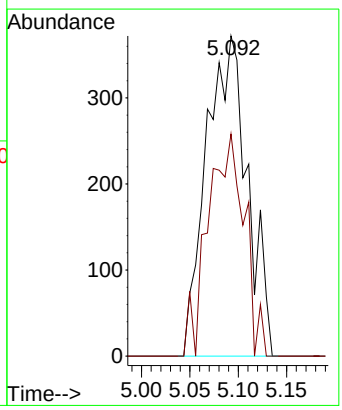


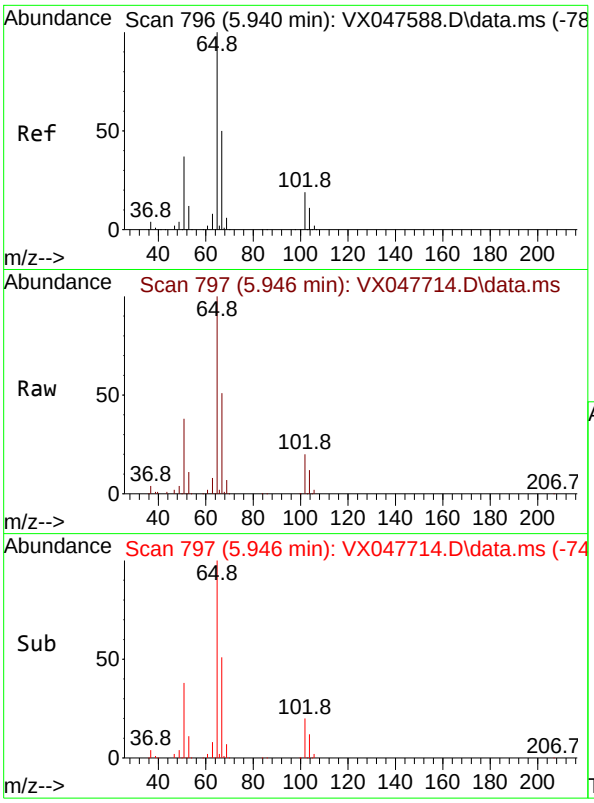


#30
Chloroform
Concen: 0.254 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.012 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Tgt Ion: 83 Resp: 1101

Ion	Ratio	Lower	Upper
83	100		
85	69.4	51.8	77.6



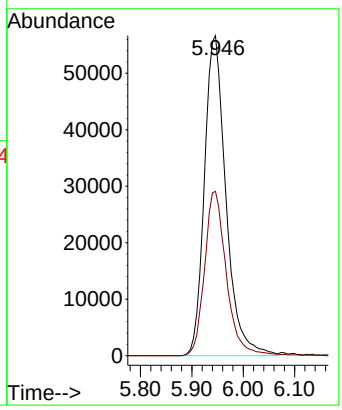


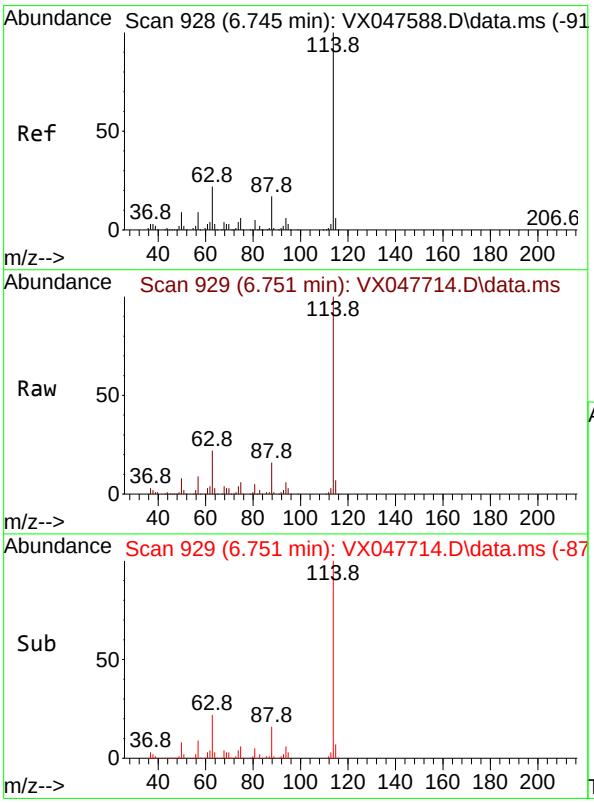
#33
1,2-Dichloroethane-d4
Concen: 60.981 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Tgt Ion: 65 Resp: 165106

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0

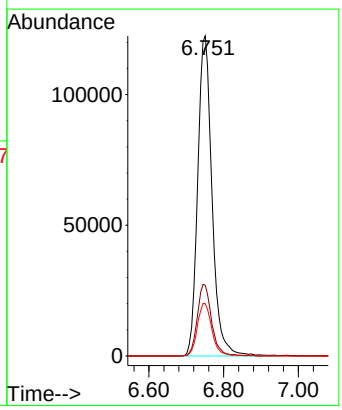


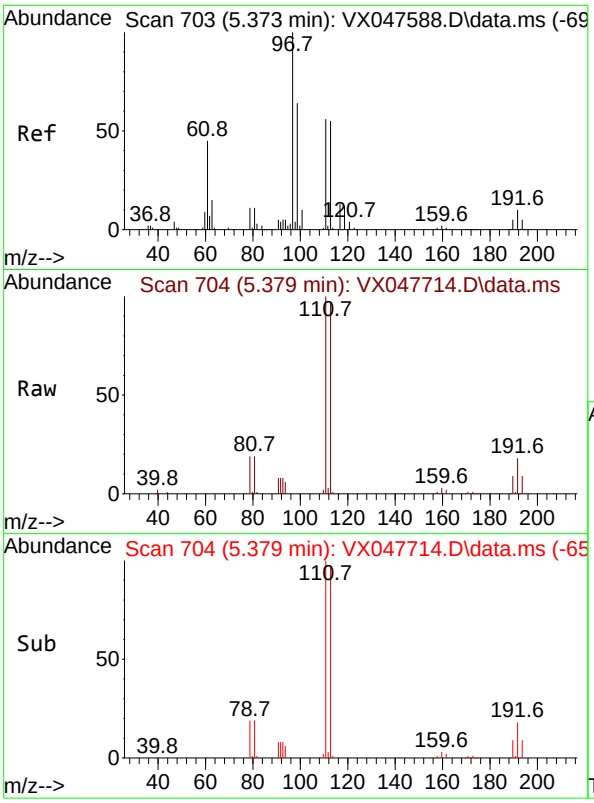


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Tgt Ion:114 Resp: 325449

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.0
88	16.3	0.0	34.2



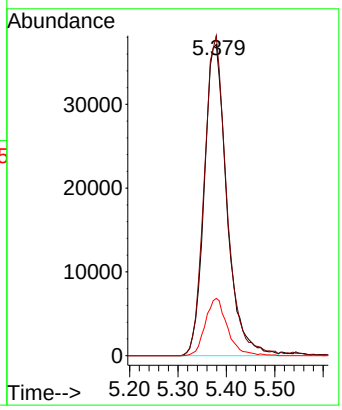


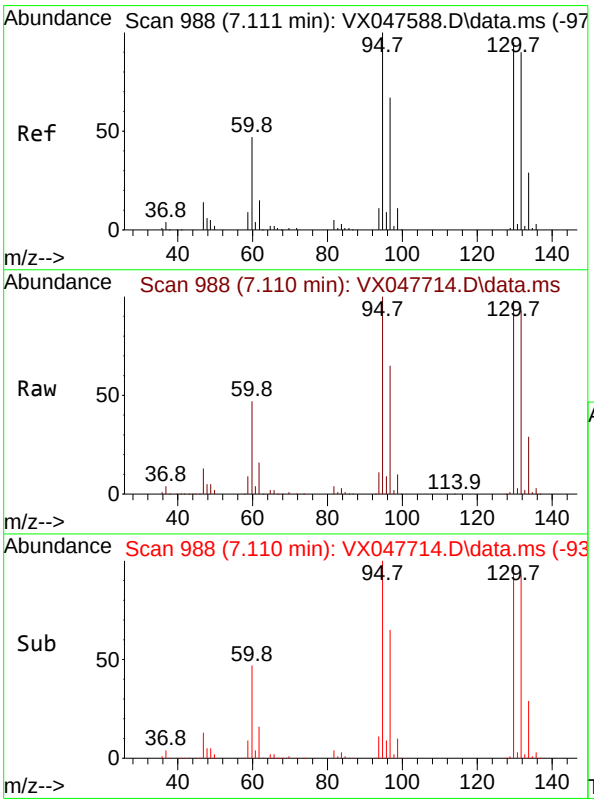
#35
Dibromofluoromethane
Concen: 55.300 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Tgt Ion:113 Resp: 120701

Ion	Ratio	Lower	Upper
113	100		
111	102.5	80.9	121.3
192	18.1	14.2	21.4

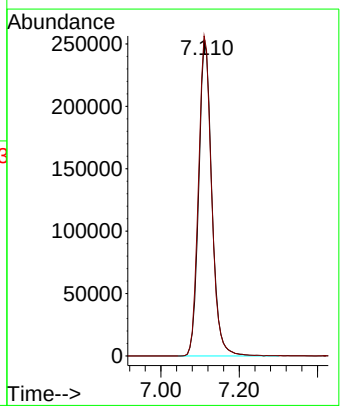


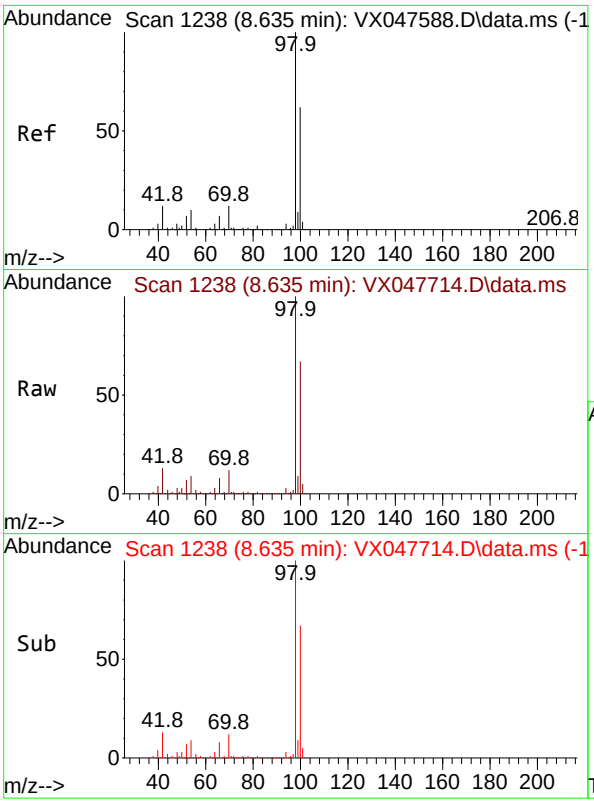


#44
Trichloroethene
Concen: 250.718 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Tgt Ion:130 Resp: 587164

Ion	Ratio	Lower	Upper
130	100		
95	101.7	0.0	210.8



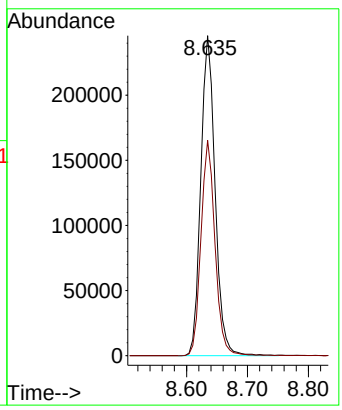


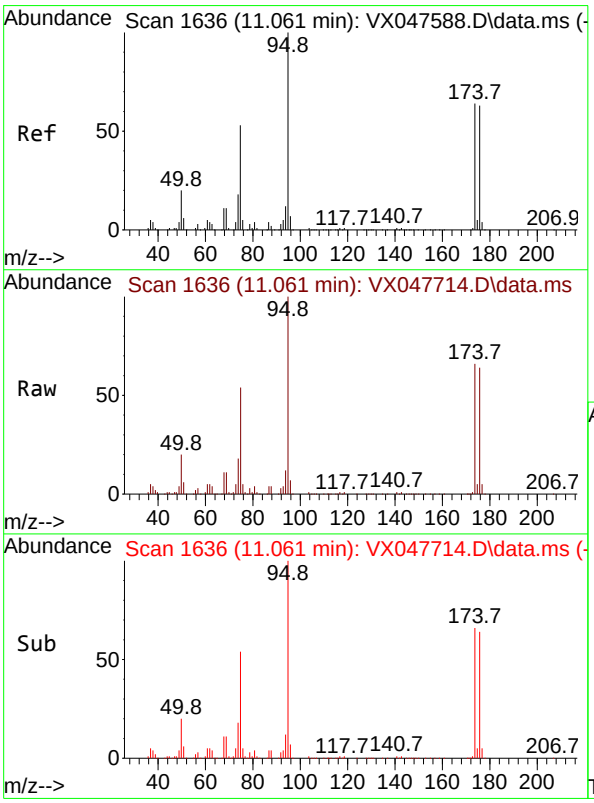
#50
Toluene-d8
Concen: 53.156 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Tgt Ion: 98 Resp: 401455

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.4

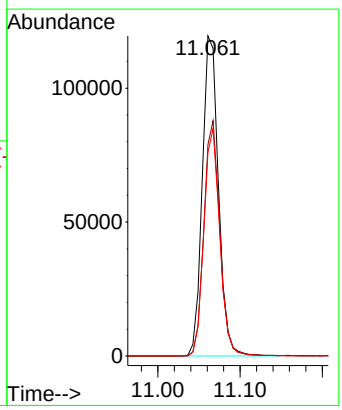


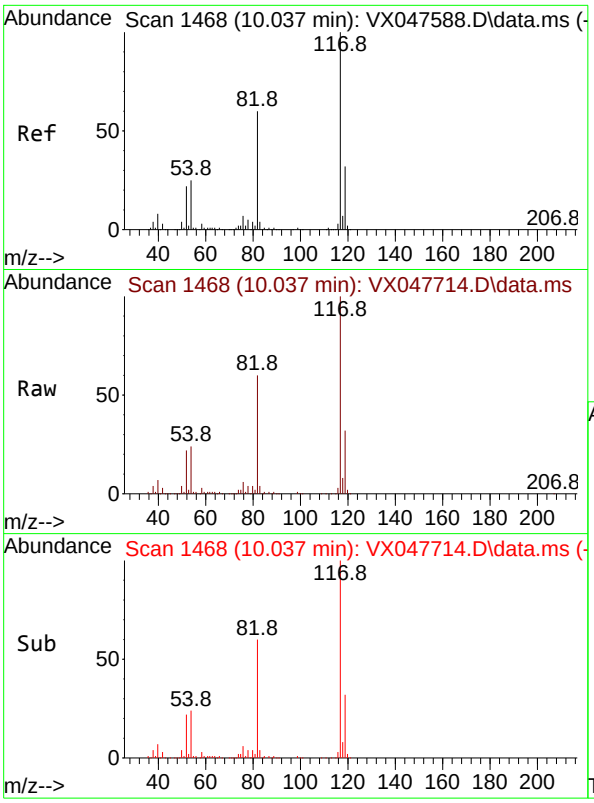


#62
4-Bromofluorobenzene
Concen: 56.980 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Tgt Ion: 95 Resp: 163320

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	141.6
176	69.9	0.0	138.4



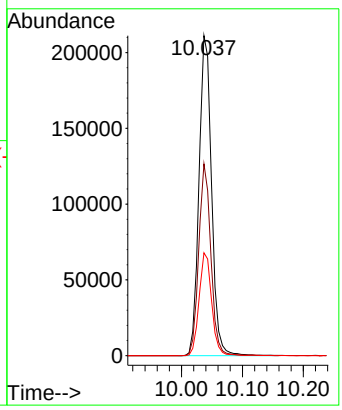


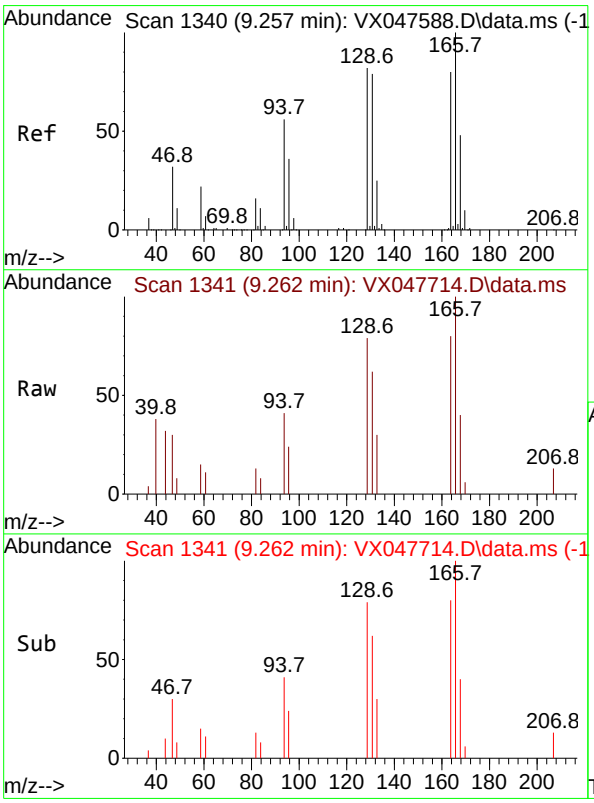
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Tgt Ion:117 Resp: 301928

Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.8	71.6
119	32.1	25.2	37.8

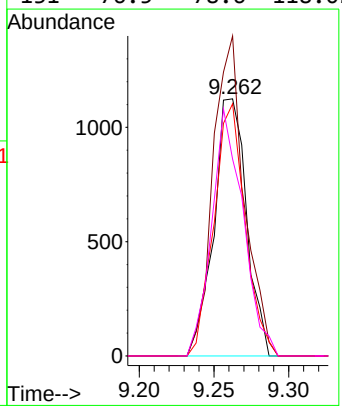


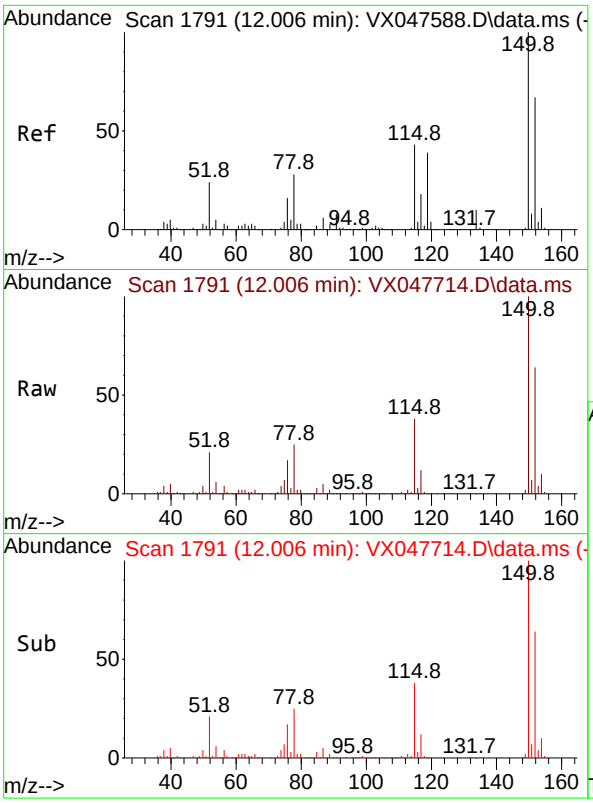


#64
Tetrachloroethene
Concen: 0.870 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Tgt Ion:164 Resp: 1713

Ion	Ratio	Lower	Upper
164	100		
166	124.4	100.2	150.2
129	98.0	81.8	122.6
131	76.5	78.6	118.0#



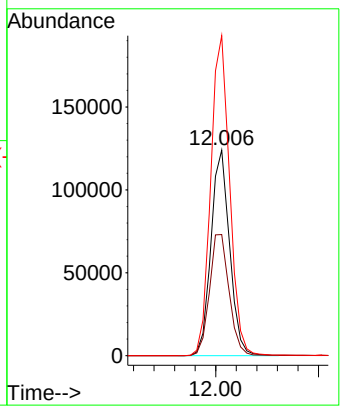


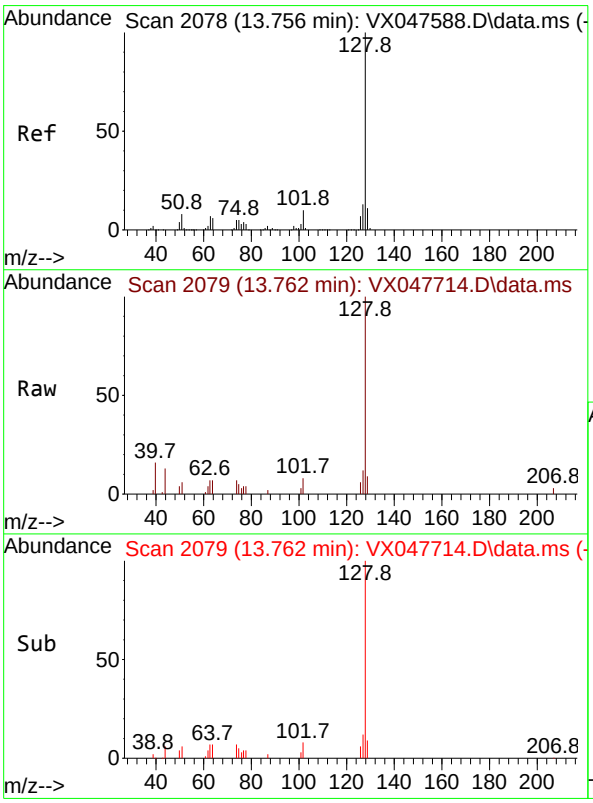
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911

Tgt Ion:152 Resp: 156017

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.9	134.5
150	158.1	0.0	352.0

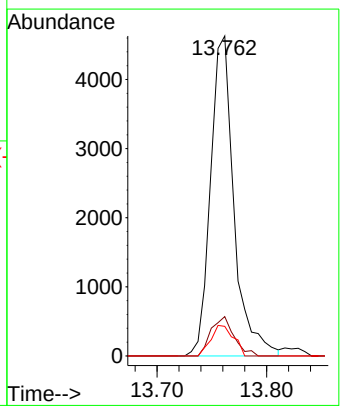




#95
Naphthalene
Concen: 0.672 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. 0.006 min
Lab File: VX047714.D
Acq: 22 Sep 2025 18:37

Tgt Ion:128 Resp: 6878

Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.2	15.2
129	9.2	8.8	13.2



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-01DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047724.D	5	09/23/25 11:36	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.50	UD	1.10	2.50	5.00	ug/L
74-87-3	Chloromethane	2.50	UD	1.60	2.50	5.00	ug/L
75-01-4	Vinyl Chloride	3.80	UD	1.30	3.80	5.00	ug/L
74-83-9	Bromomethane	18.8	UD	7.20	18.8	25.0	ug/L
75-00-3	Chloroethane	3.80	UD	2.40	3.80	5.00	ug/L
75-69-4	Trichlorofluoromethane	2.50	UD	1.70	2.50	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	UD	1.30	2.50	5.00	ug/L
75-35-4	1,1-Dichloroethene	3.80	UD	1.20	3.80	5.00	ug/L
67-64-1	Acetone	18.8	UD	7.60	18.8	25.0	ug/L
75-15-0	Carbon Disulfide	3.80	UD	1.10	3.80	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	2.50	UD	0.80	2.50	5.00	ug/L
79-20-9	Methyl Acetate	3.80	UD	1.40	3.80	5.00	ug/L
75-09-2	Methylene Chloride	2.50	UD	1.40	2.50	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	2.50	UD	1.20	2.50	5.00	ug/L
75-34-3	1,1-Dichloroethane	2.50	UD	1.20	2.50	5.00	ug/L
110-82-7	Cyclohexane	12.5	UD	7.30	12.5	25.0	ug/L
78-93-3	2-Butanone	12.5	UD	4.90	12.5	25.0	ug/L
56-23-5	Carbon Tetrachloride	2.50	UD	1.30	2.50	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	3.80	UD	0.95	3.80	5.00	ug/L
74-97-5	Bromochloromethane	2.50	UD	1.10	2.50	5.00	ug/L
67-66-3	Chloroform	2.50	UD	1.30	2.50	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	2.50	UD	1.00	2.50	5.00	ug/L
108-87-2	Methylcyclohexane	2.50	UD	0.80	2.50	5.00	ug/L
71-43-2	Benzene	2.50	UD	0.75	2.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	2.50	UD	1.10	2.50	5.00	ug/L
79-01-6	Trichloroethene	290	D	0.47	3.80	5.00	ug/L
78-87-5	1,2-Dichloropropane	2.50	UD	1.00	2.50	5.00	ug/L
75-27-4	Bromodichloromethane	2.50	UD	1.10	2.50	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	12.5	UD	3.40	12.5	25.0	ug/L
108-88-3	Toluene	2.50	UD	0.70	2.50	5.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-01DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047724.D	5	09/23/25 11:36	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.50	UD	0.85	2.50	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	2.50	UD	0.80	2.50	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	2.50	UD	1.10	2.50	5.00	ug/L
591-78-6	2-Hexanone	12.5	UD	4.50	12.5	25.0	ug/L
124-48-1	Dibromochloromethane	2.50	UD	0.90	2.50	5.00	ug/L
106-93-4	1,2-Dibromoethane	2.50	UD	0.75	2.50	5.00	ug/L
127-18-4	Tetrachloroethene	2.50	UD	1.20	2.50	5.00	ug/L
108-90-7	Chlorobenzene	2.50	UD	0.60	2.50	5.00	ug/L
100-41-4	Ethyl Benzene	2.50	UD	0.65	2.50	5.00	ug/L
179601-23-1	m/p-Xylenes	5.00	UD	1.20	5.00	10.0	ug/L
95-47-6	o-Xylene	2.50	UD	0.60	2.50	5.00	ug/L
100-42-5	Styrene	2.50	UD	0.75	2.50	5.00	ug/L
75-25-2	Bromoform	2.50	UD	0.95	2.50	5.00	ug/L
98-82-8	Isopropylbenzene	2.50	UD	0.60	2.50	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.50	UD	1.30	2.50	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	2.50	UD	0.80	2.50	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	2.50	UD	0.95	2.50	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	2.50	UD	0.80	2.50	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.80	UD	2.70	3.80	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	2.50	UD	1.00	2.50	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	3.80	UD	1.00	3.80	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.6		81 - 118		95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	48.0		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	134000	5.538				
540-36-3	1,4-Difluorobenzene	271000	6.751				
3114-55-4	Chlorobenzene-d5	269000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	132000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-01DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047724.D	5	09/23/25 11:36	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047724.D
Acq On : 23 Sep 2025 11:36
Operator : JC/MD
Sample : Q3097-01DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

Quant Time: Sep 24 01:29:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

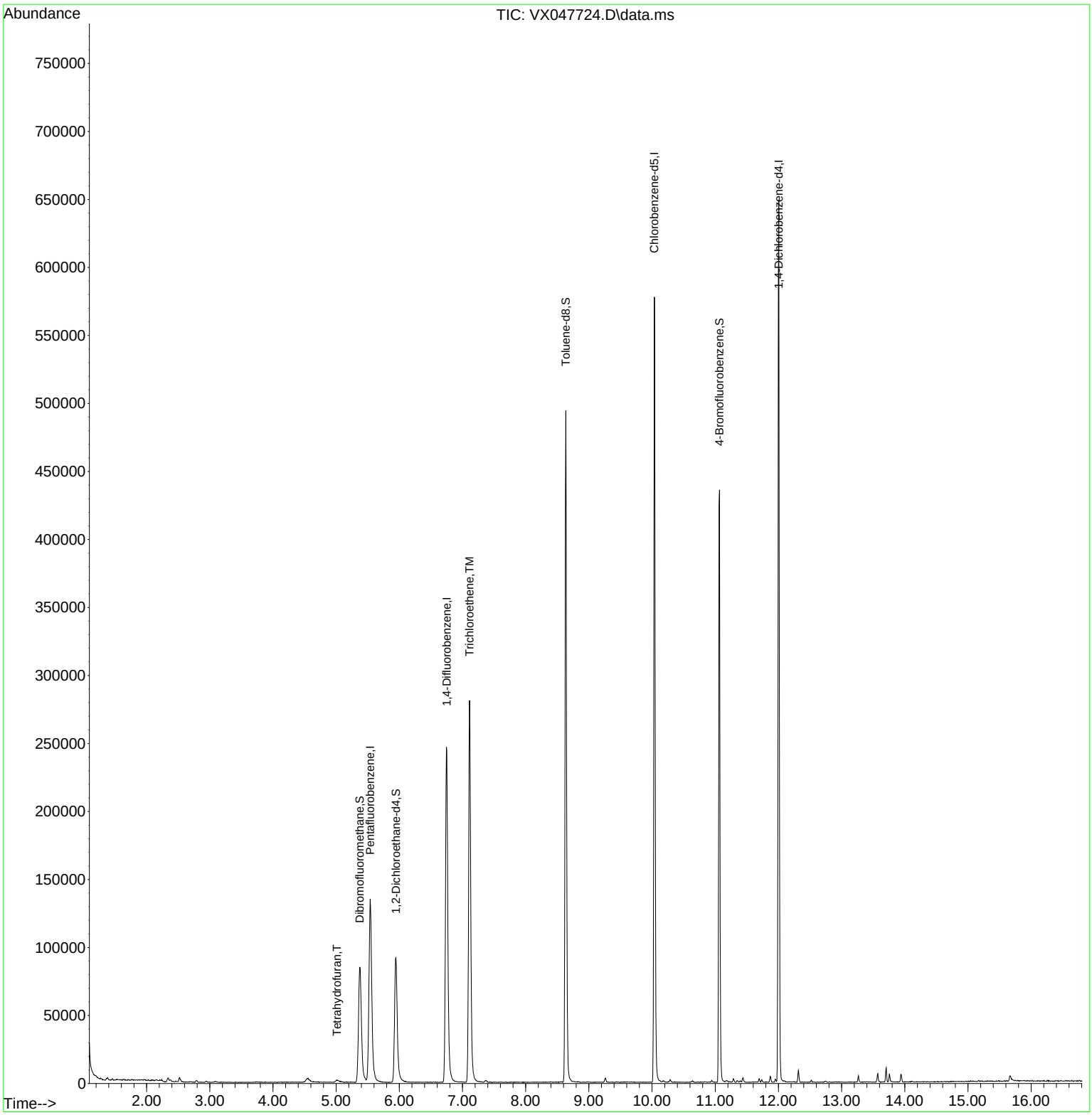
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	133561	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	270653	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	268877	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	132316	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	101290	47.644	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 95.280%			
35) Dibromofluoromethane	5.373	113	85250	46.966	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.940%			
50) Toluene-d8	8.635	98	301245	47.963	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.920%			
62) 4-Bromofluorobenzene	11.067	95	126537	53.085	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.180%			
Target Compounds						Qvalue
29) Tetrahydrofuran	5.013	42	1926	2.777	ug/l #	87
44) Trichloroethene	7.110	130	114679	58.882	ug/l	97

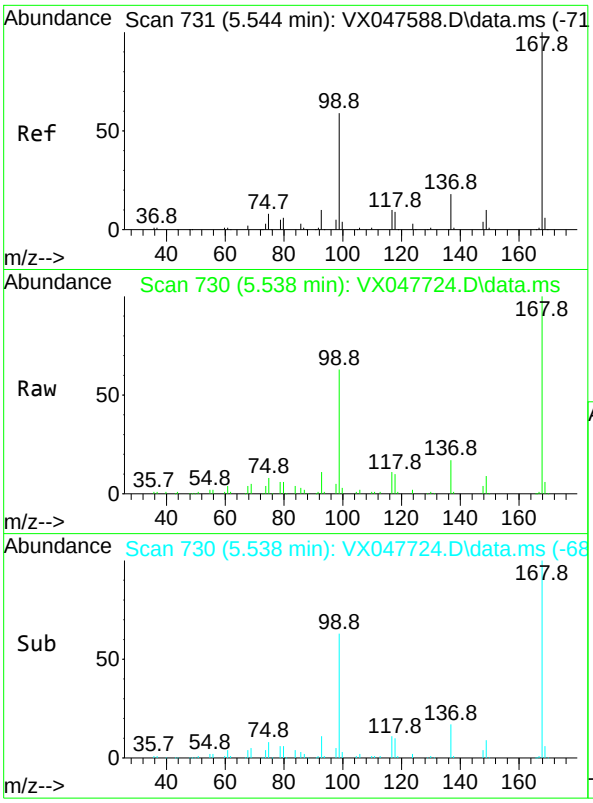
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047724.D
Acq On : 23 Sep 2025 11:36
Operator : JC/MD
Sample : Q3097-01DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

Quant Time: Sep 24 01:29:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



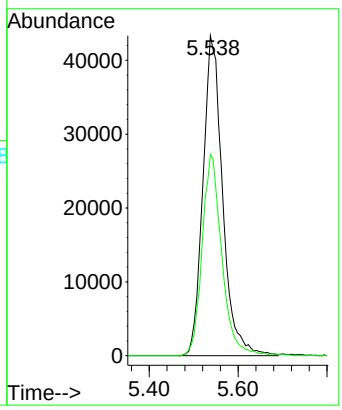


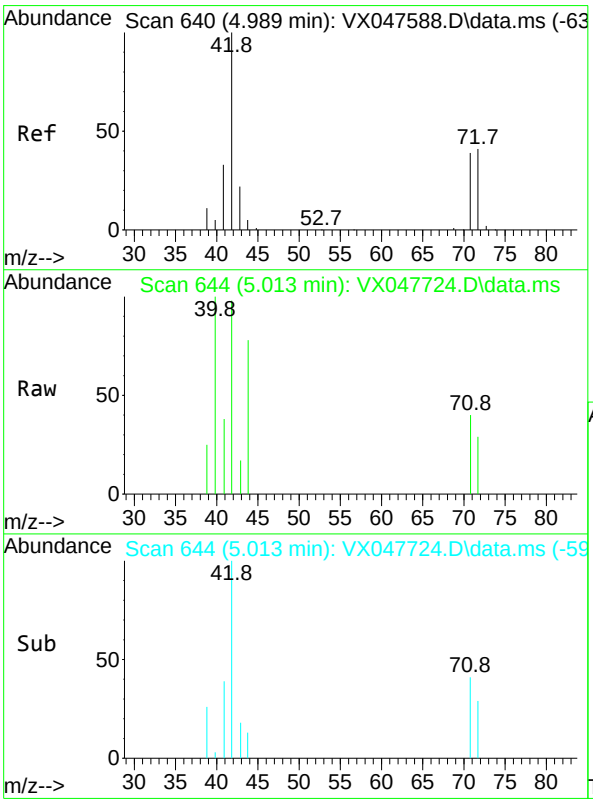
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

Tgt Ion:168 Resp: 133561

Ion	Ratio	Lower	Upper
168	100		
99	62.8	48.8	73.2

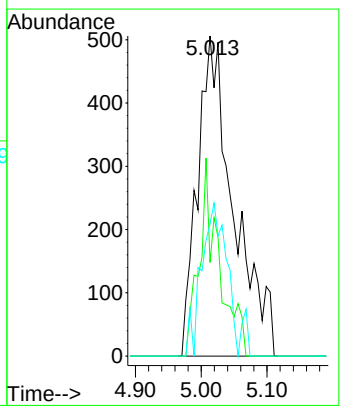


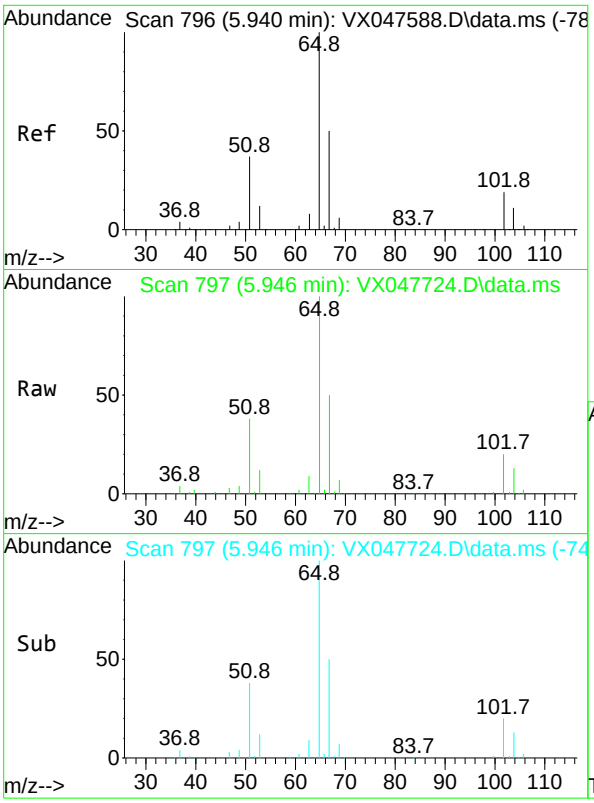


#29
Tetrahydrofuran
Concen: 2.777 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.024 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion: 42 Resp: 1926

Ion	Ratio	Lower	Upper
42	100		
72	34.1	34.2	51.2#
71	32.8	31.9	47.9



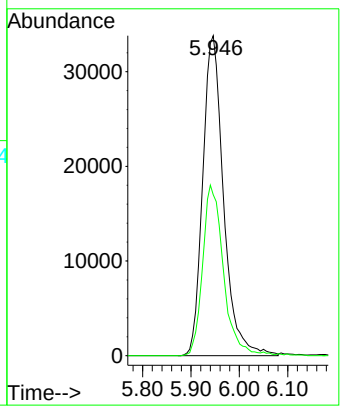


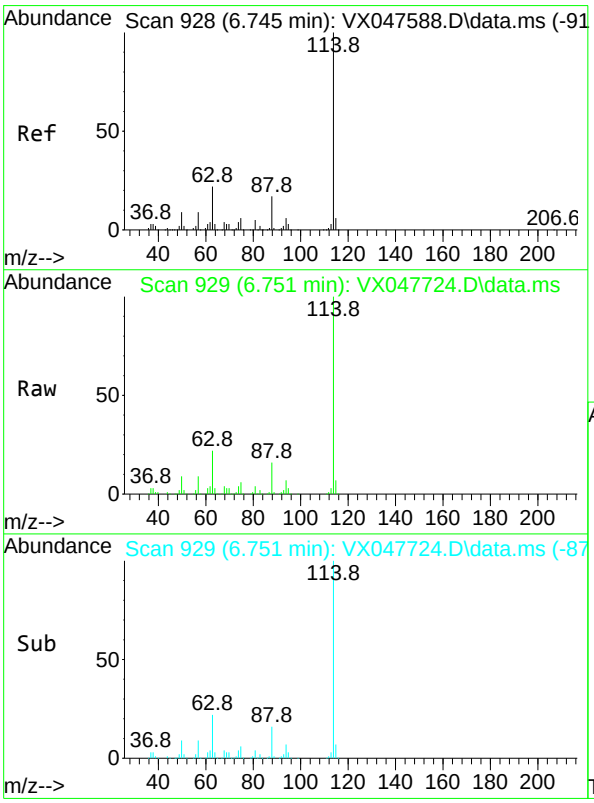
#33
1,2-Dichloroethane-d4
Concen: 47.644 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

Tgt Ion: 65 Resp: 101290

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	103.0

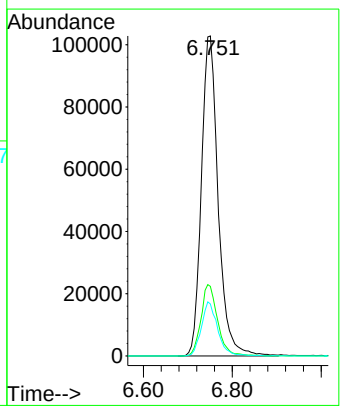


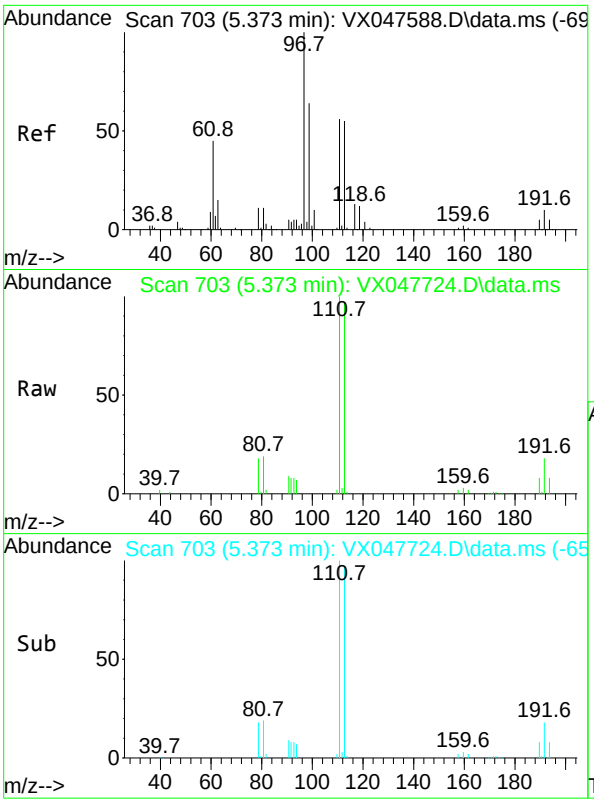


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion:114 Resp: 270653

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	44.0
88	16.2	0.0	34.2



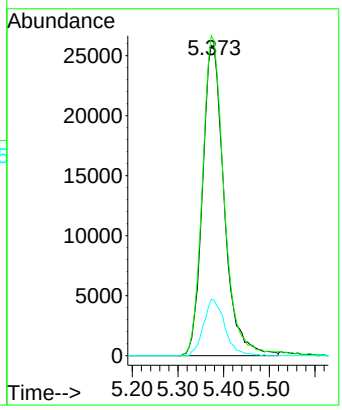


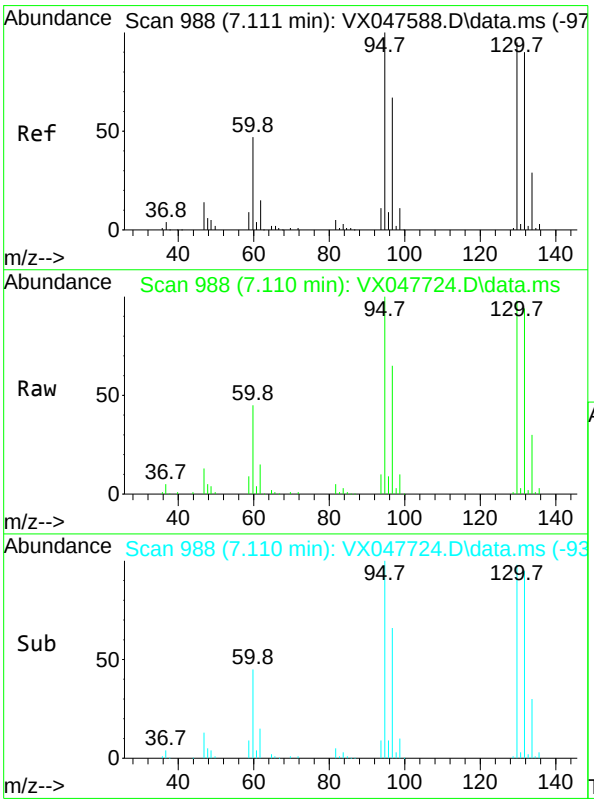
#35
Dibromofluoromethane
Concen: 46.966 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

Tgt Ion:113 Resp: 85250

Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.9	121.3
192	17.8	14.2	21.4

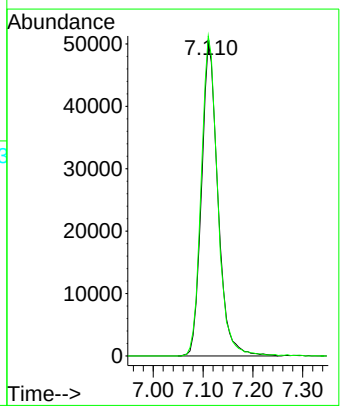


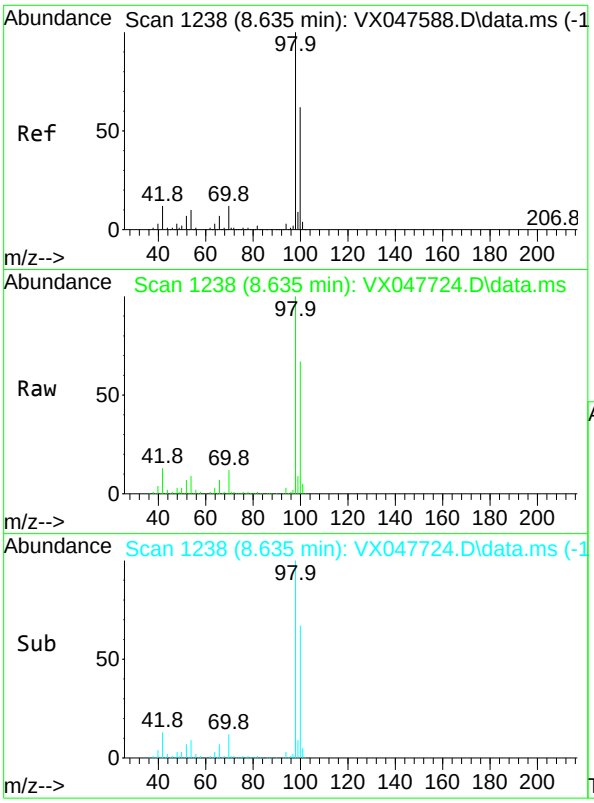


#44
Trichloroethene
Concen: 58.882 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion:130 Resp: 114679

Ion	Ratio	Lower	Upper
130	100		
95	101.8	0.0	210.8



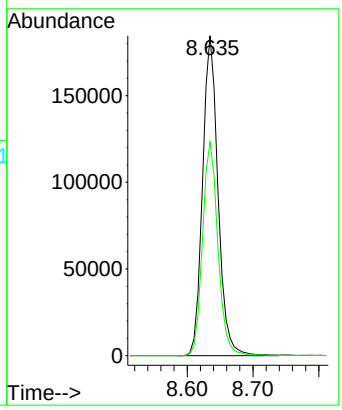


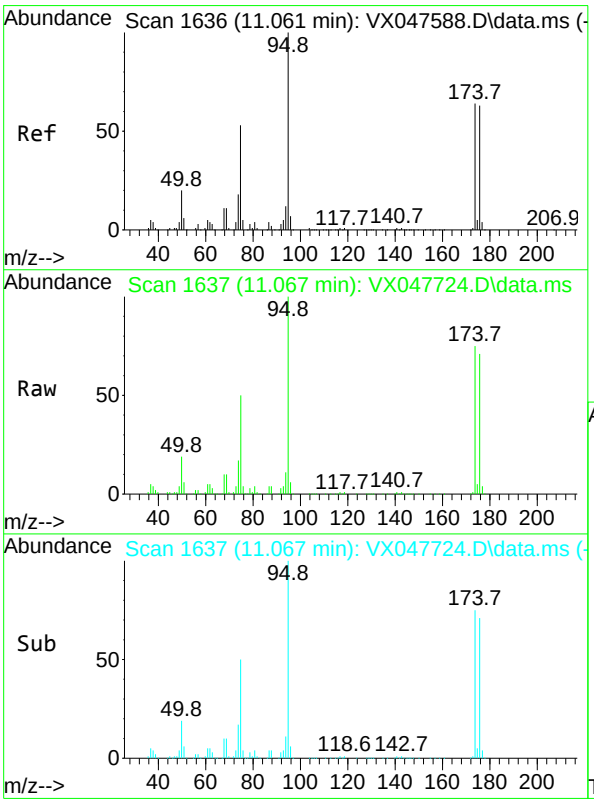
#50
Toluene-d8
Concen: 47.963 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

Tgt Ion: 98 Resp: 301245

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.0	79.4

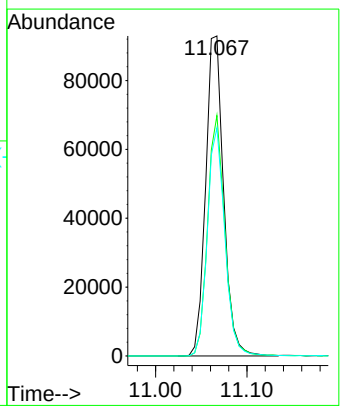


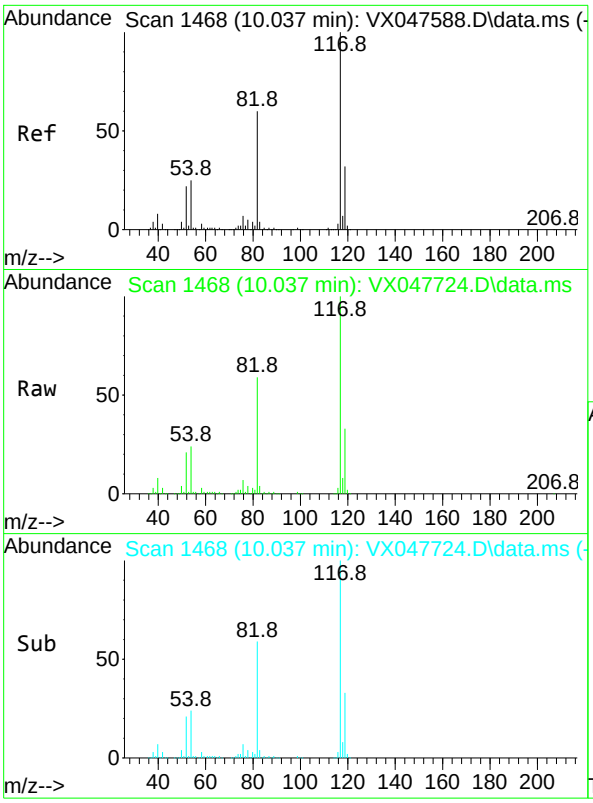


#62
4-Bromofluorobenzene
Concen: 53.085 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion: 95 Resp: 126537

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.6
176	69.4	0.0	138.4



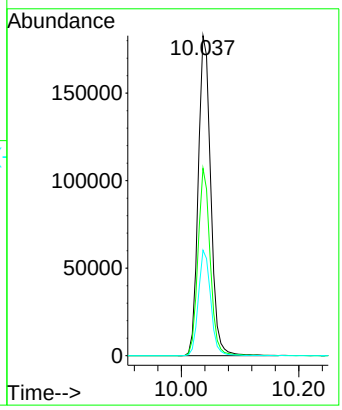


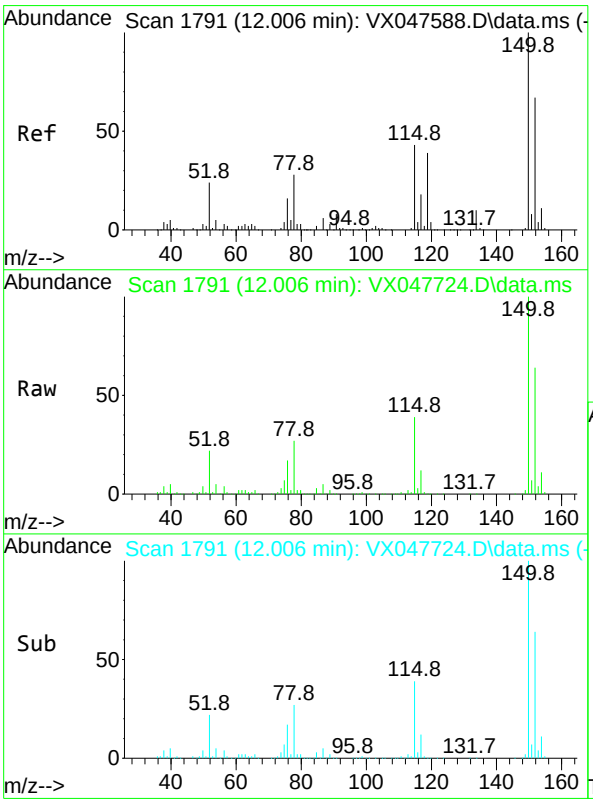
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

Tgt Ion:117 Resp: 268877

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.8	71.6
119	32.9	25.2	37.8

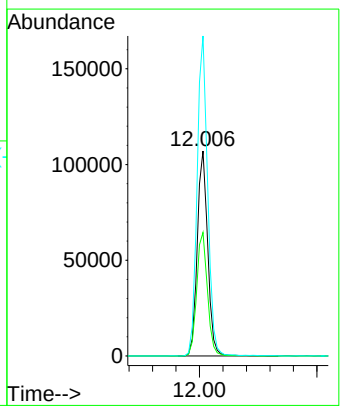




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion:152 Resp: 132316

Ion	Ratio	Lower	Upper
152	100		
115	62.0	44.9	134.5
150	157.3	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047676.D	1	09/19/25 15:15	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.70		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.46	J	0.23	0.75	1.00	ug/L
67-64-1	Acetone	1.60	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.63	J	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.70		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.54	J	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	140		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047676.D	1	09/19/25 15:15	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	8.50		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.2		81 - 118		94%	SPK: 50
1868-53-7	Dibromofluoromethane	44.8		80 - 119		90%	SPK: 50
2037-26-5	Toluene-d8	44.5		89 - 112		89%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		85 - 114		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	182000	5.538				
540-36-3	1,4-Difluorobenzene	337000	6.751				
3114-55-4	Chlorobenzene-d5	304000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	147000	12.006				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047676.D	1	09/19/25 15:15	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047676.D
Acq On : 19 Sep 2025 15:15
Operator : JC/MD
Sample : Q3097-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Quant Time: Sep 20 00:33:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

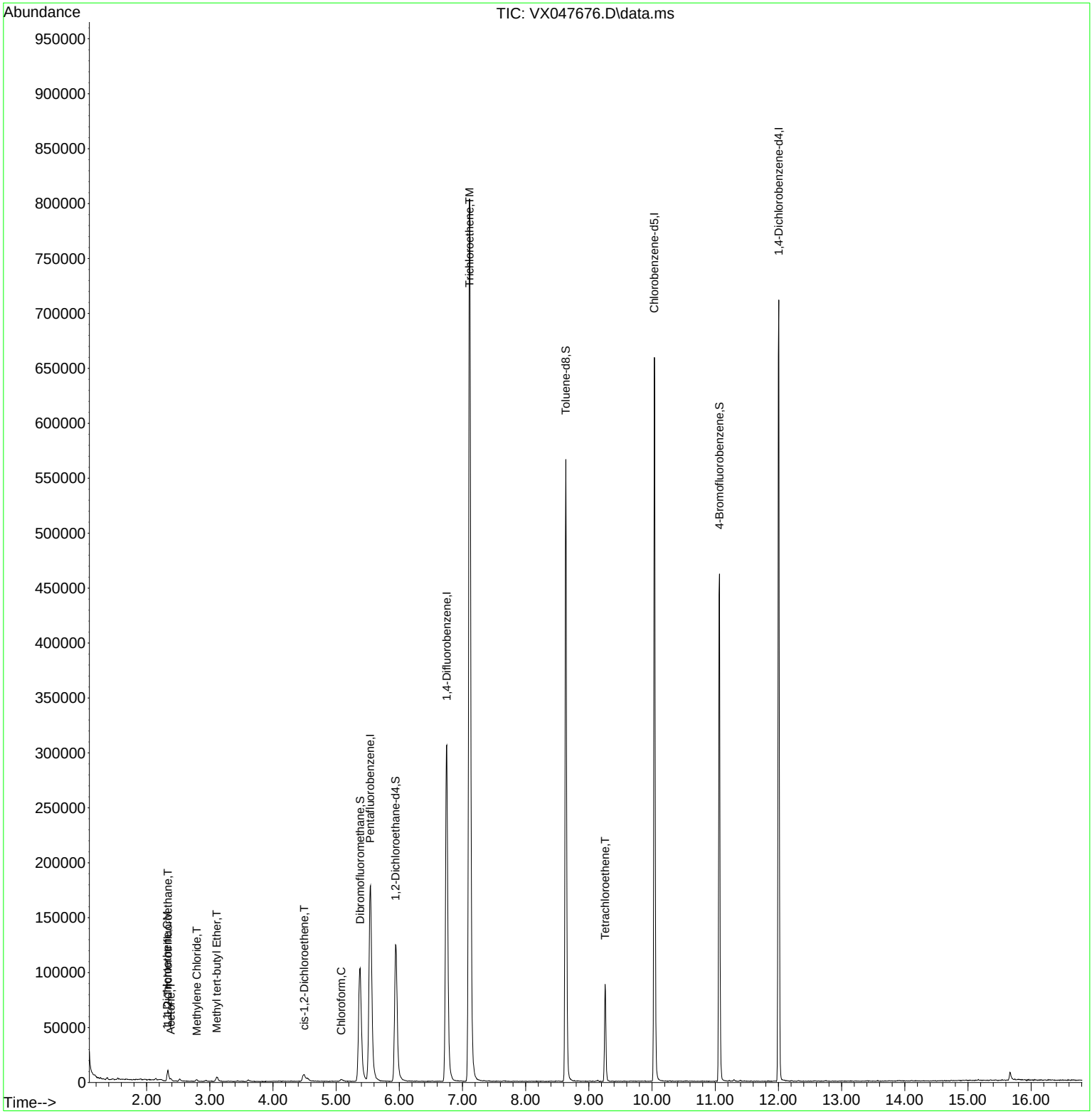
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	181680	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	337276	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	303934	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	146768	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	136352	47.150	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.300%		
35) Dibromofluoromethane	5.379	113	101342	44.803	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	89.600%		
50) Toluene-d8	8.635	98	348327	44.504	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	89.000%#		
62) 4-Bromofluorobenzene	11.067	95	132562	44.627	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.260%		
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	3597	1.712	ug/l	94
12) 1,1-Dichloroethene	2.325	96	990	0.459	ug/l #	85
16) Acetone	2.380	43	1971	1.568	ug/l #	85
19) Methyl tert-butyl Ether	3.111	73	4927	0.625	ug/l	93
20) Methylene Chloride	2.794	84	724	0.272	ug/l #	85
27) cis-1,2-Dichloroethene	4.495	96	4771	1.676	ug/l	87
30) Chloroform	5.080	83	2482	0.535	ug/l #	82
44) Trichloroethene	7.111	130	335905	138.401	ug/l	100
64) Tetrachloroethene	9.256	164	16757	8.457	ug/l	97

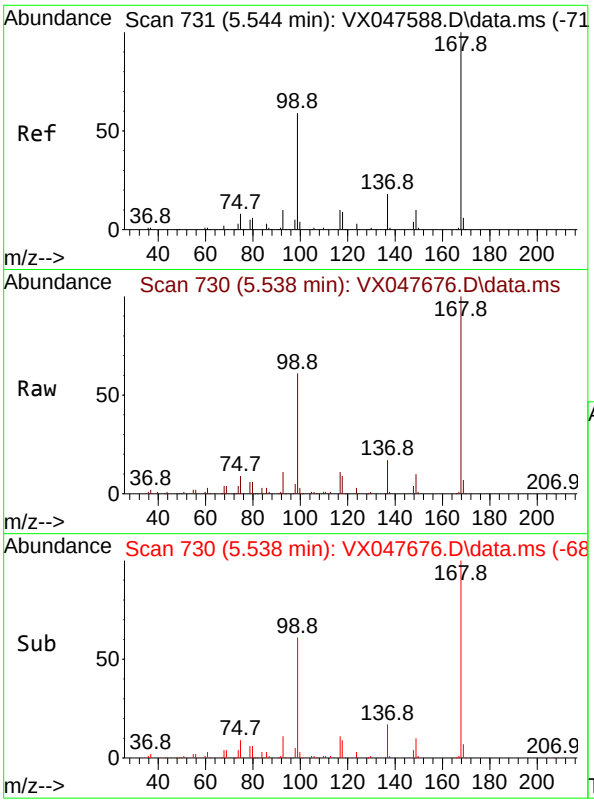
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047676.D
Acq On : 19 Sep 2025 15:15
Operator : JC/MD
Sample : Q3097-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Quant Time: Sep 20 00:33:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



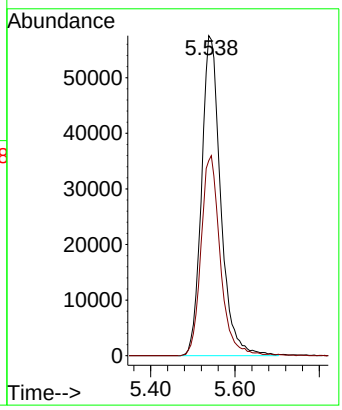


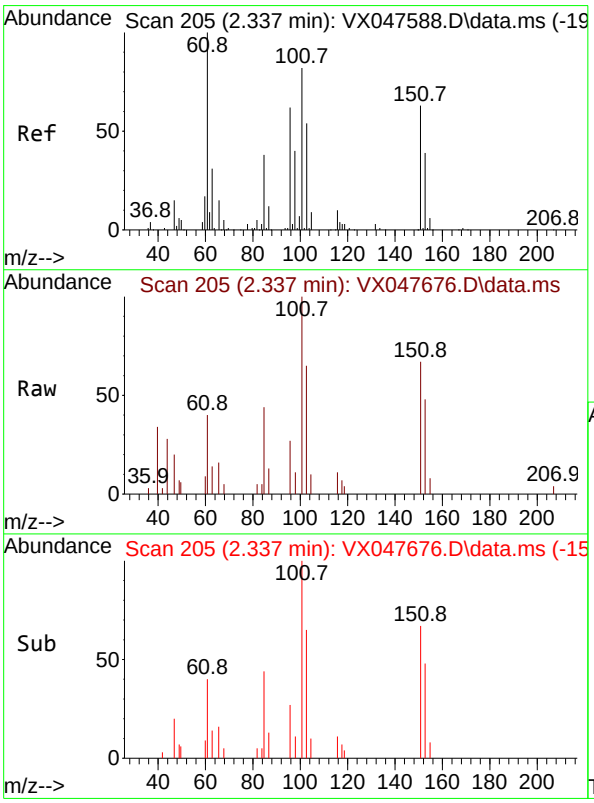
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Tgt Ion:168 Resp: 181680

Ion	Ratio	Lower	Upper
168	100		
99	60.9	48.8	73.2

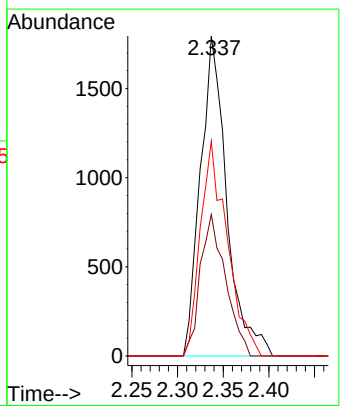


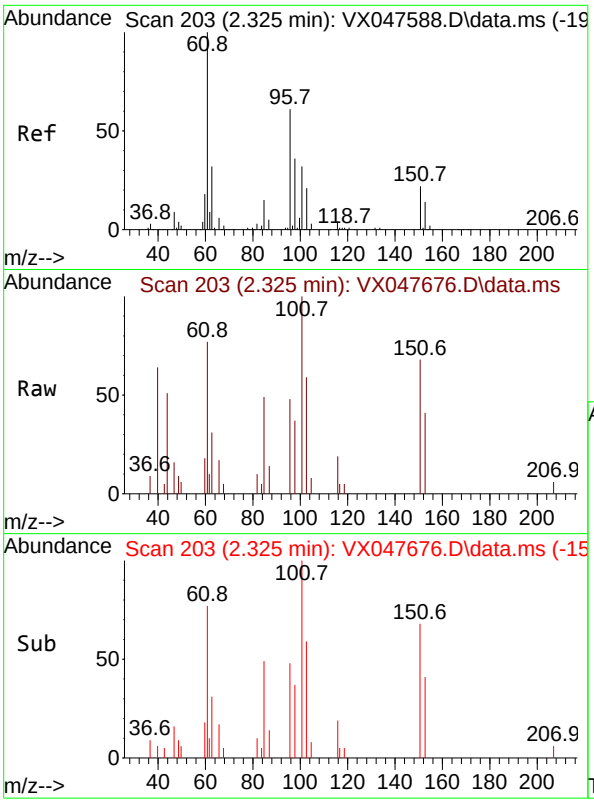


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.712 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Tgt Ion:101 Resp: 3597

Ion	Ratio	Lower	Upper
101	100		
85	42.2	35.5	53.3
151	68.3	59.4	89.0



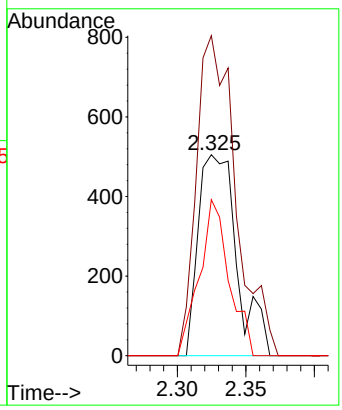


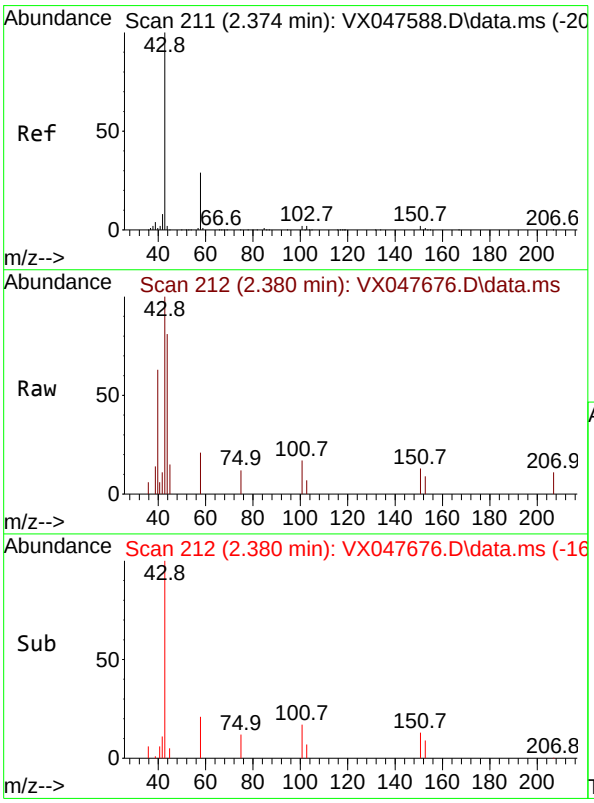
#12
1,1-Dichloroethene
Concen: 0.459 ug/l
RT: 2.325 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Tgt Ion: 96 Resp: 990

Ion	Ratio	Lower	Upper
96	100		
61	180.4	131.0	196.6
98	77.6	47.7	71.5#

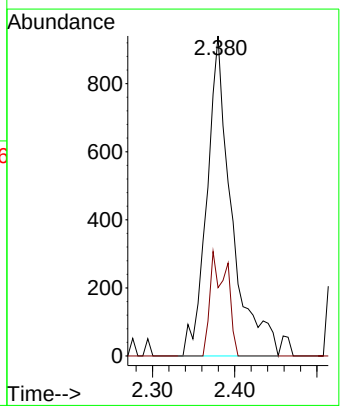


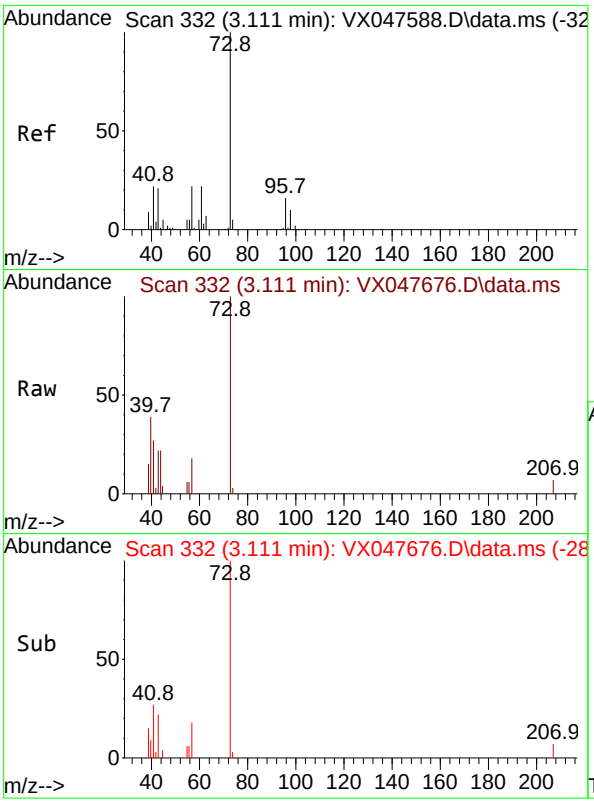


#16
Acetone
Concen: 1.568 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Tgt Ion: 43 Resp: 1971

Ion	Ratio	Lower	Upper
43	100		
58	21.4	23.4	35.0#



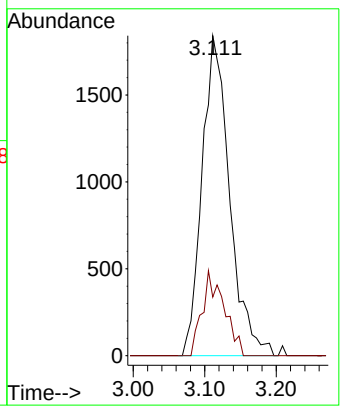


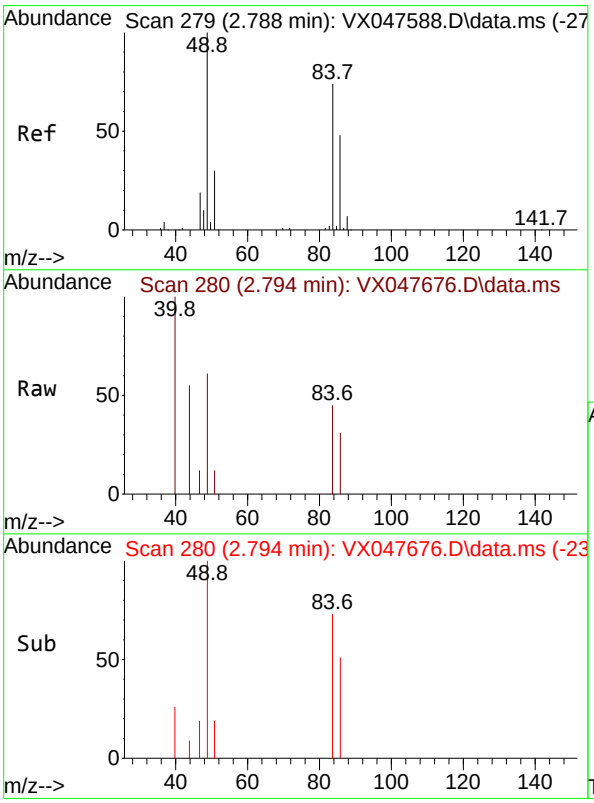
#19
Methyl tert-butyl Ether
Concen: 0.625 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Tgt Ion: 73 Resp: 4927

Ion	Ratio	Lower	Upper
73	100		
57	18.3	17.4	26.2

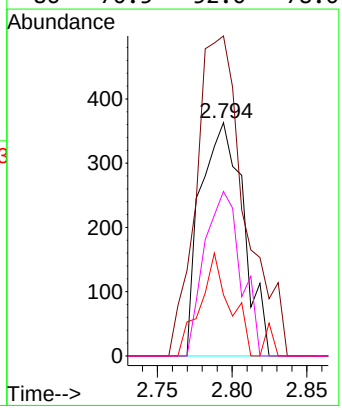


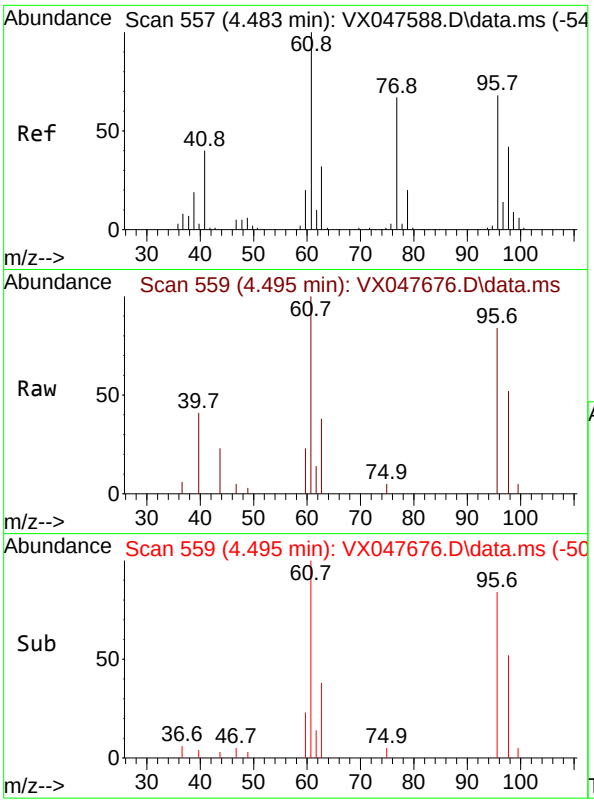


#20
Methylene Chloride
Concen: 0.272 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Tgt Ion: 84 Resp: 724

Ion	Ratio	Lower	Upper
84	100		
49	115.7	108.6	162.8
51	26.2	32.6	48.8#
86	70.5	52.0	78.0



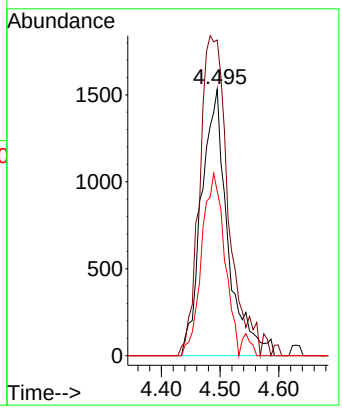


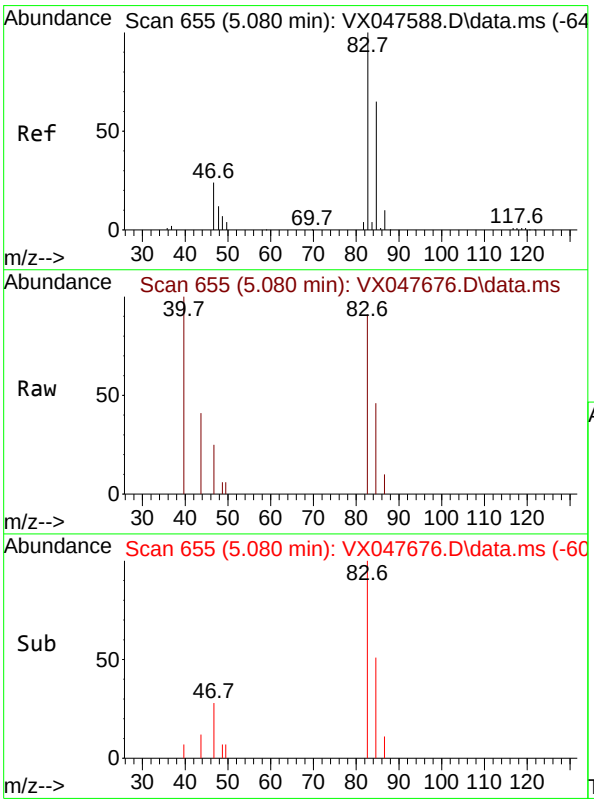
#27
cis-1,2-Dichloroethene
Concen: 1.676 ug/l
RT: 4.495 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Tgt Ion: 96 Resp: 4771

Ion	Ratio	Lower	Upper
96	100		
61	130.2	0.0	303.2
98	59.6	0.0	127.8

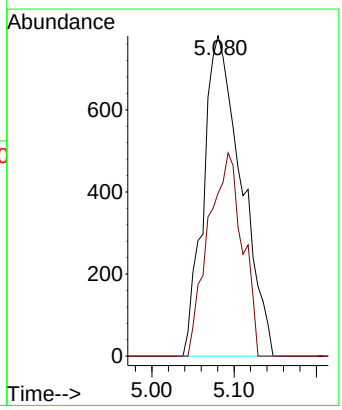


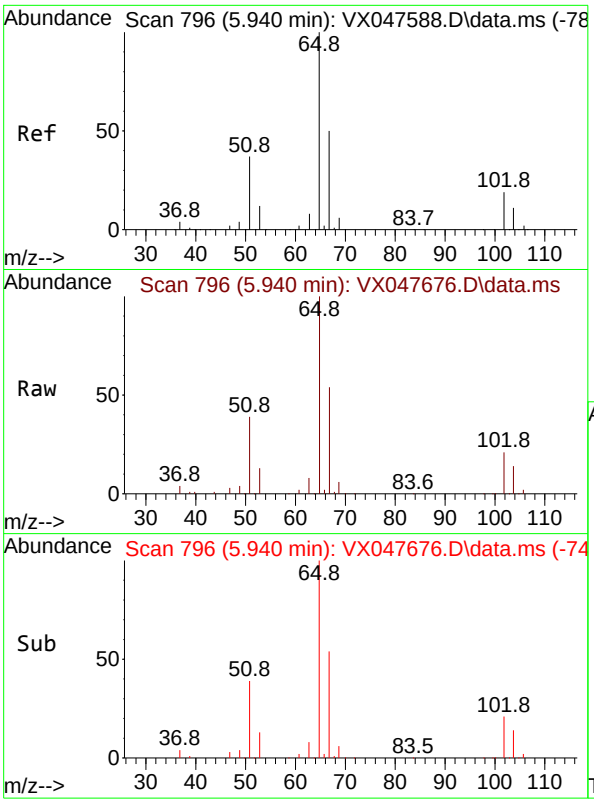


#30
Chloroform
Concen: 0.535 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Tgt Ion: 83 Resp: 2482

Ion	Ratio	Lower	Upper
83	100		
85	50.9	51.8	77.6#



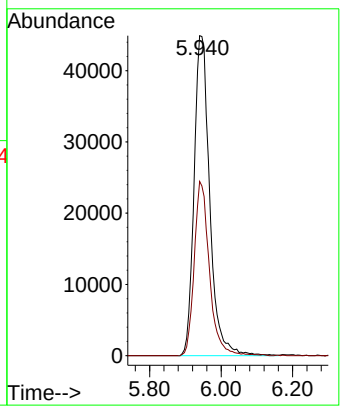


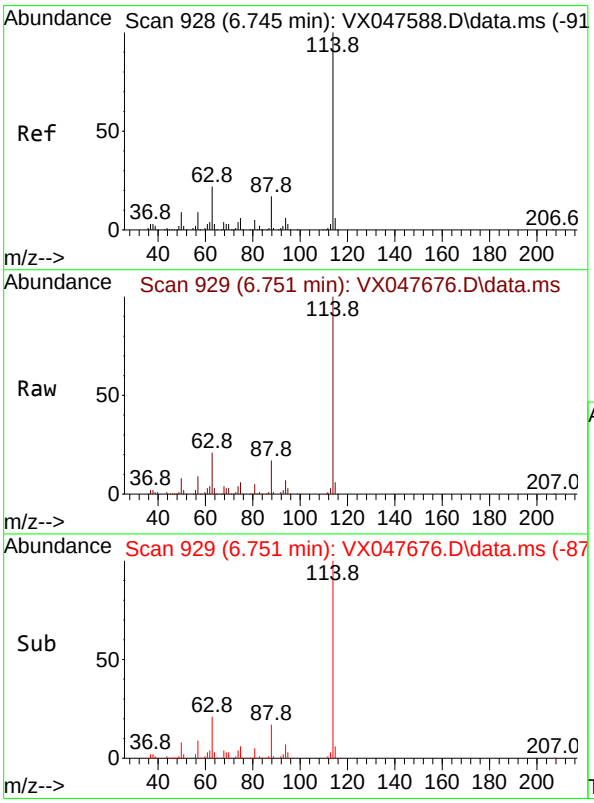
#33
1,2-Dichloroethane-d4
Concen: 47.150 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Tgt Ion: 65 Resp: 136352

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	103.0

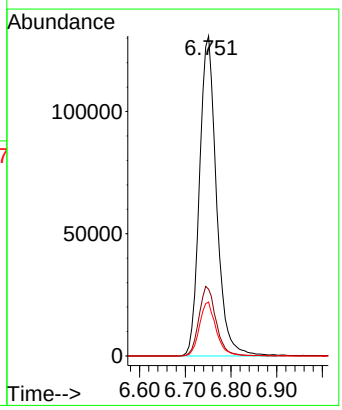


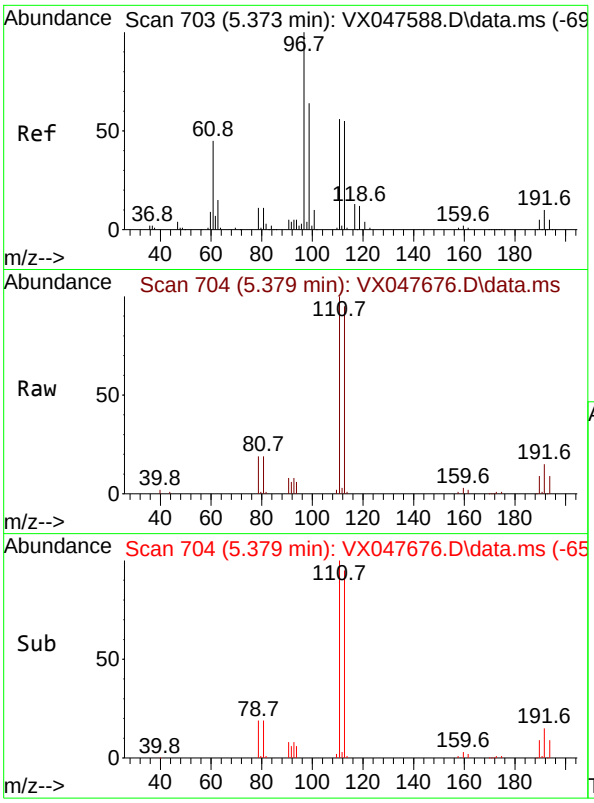


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Tgt Ion:114 Resp: 337276

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	44.0
88	16.8	0.0	34.2



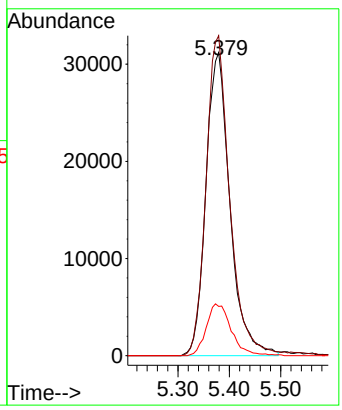


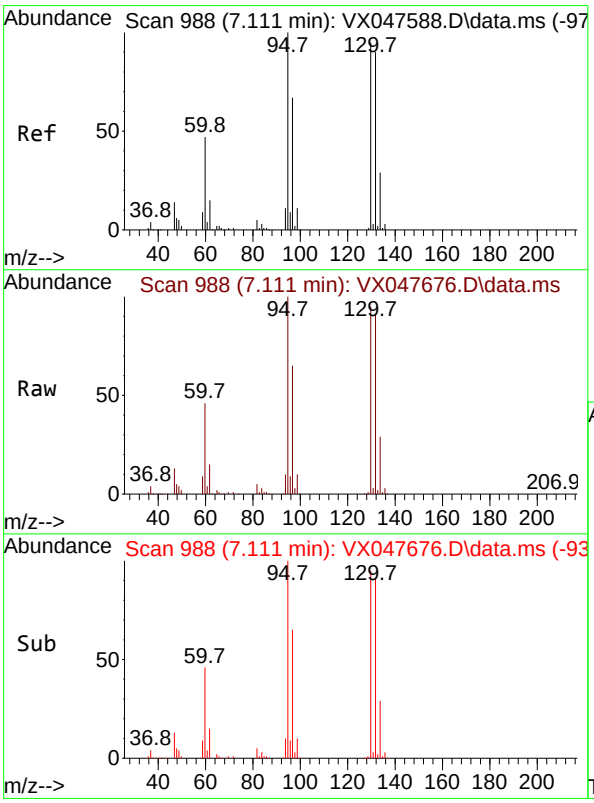
#35
Dibromofluoromethane
Concen: 44.803 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Tgt Ion:113 Resp: 101342

Ion	Ratio	Lower	Upper
113	100		
111	104.1	80.9	121.3
192	17.8	14.2	21.4

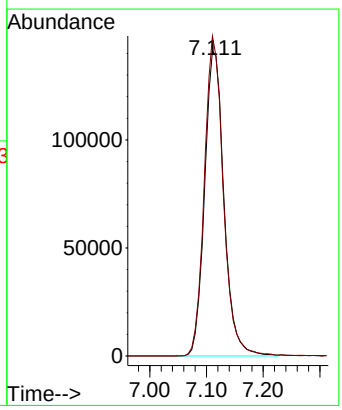


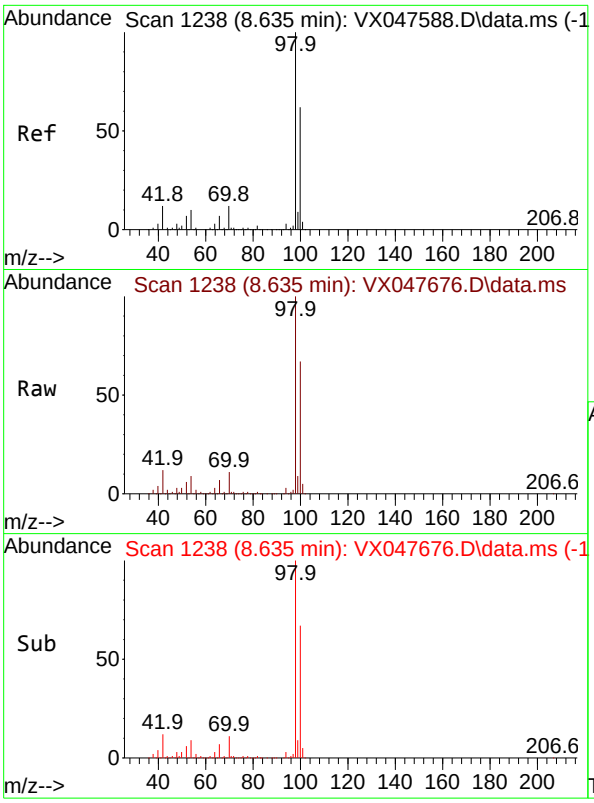


#44
Trichloroethene
Concen: 138.401 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Tgt Ion:130 Resp: 335905

Ion	Ratio	Lower	Upper
130	100		
95	104.9	0.0	210.8



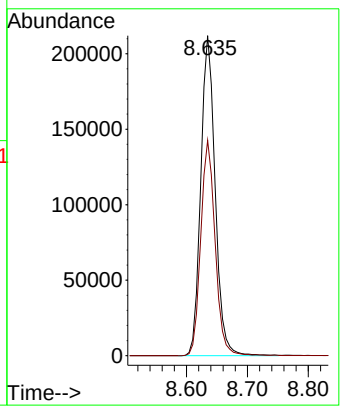


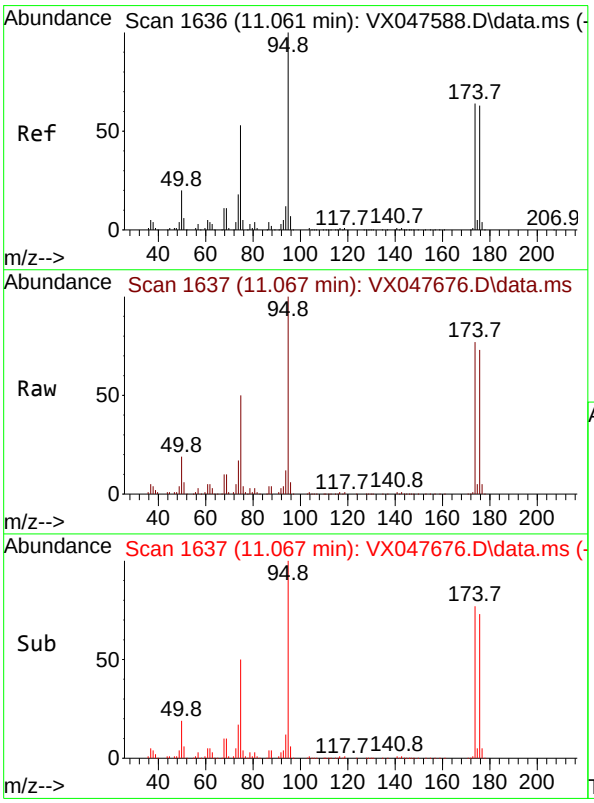
#50
Toluene-d8
Concen: 44.504 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Tgt Ion: 98 Resp: 348327

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4

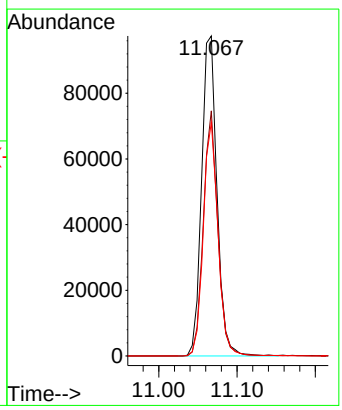


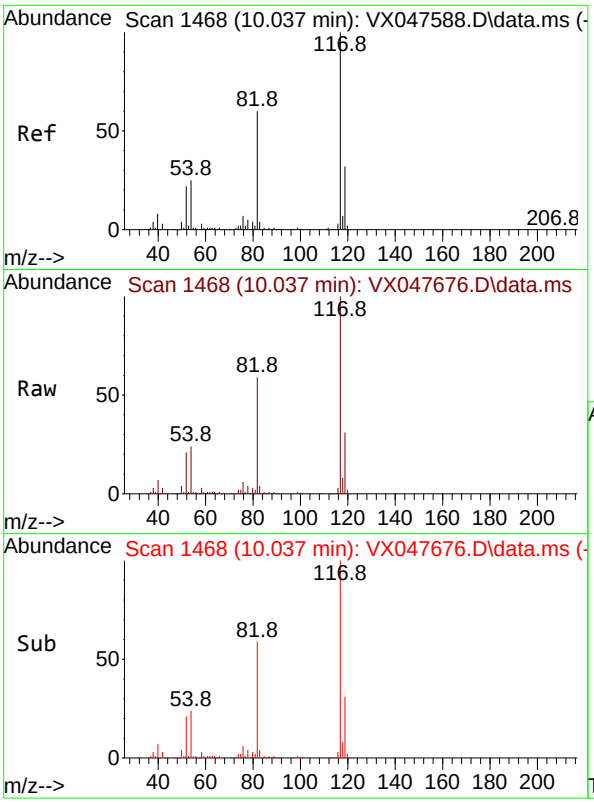


#62
4-Bromofluorobenzene
Concen: 44.627 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Tgt Ion: 95 Resp: 132562

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	70.0	0.0	138.4



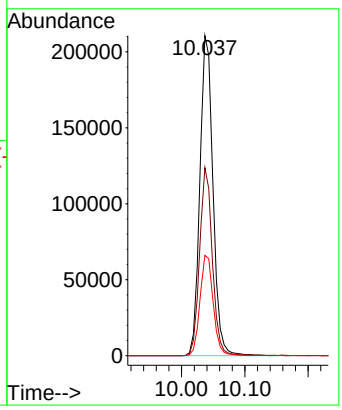


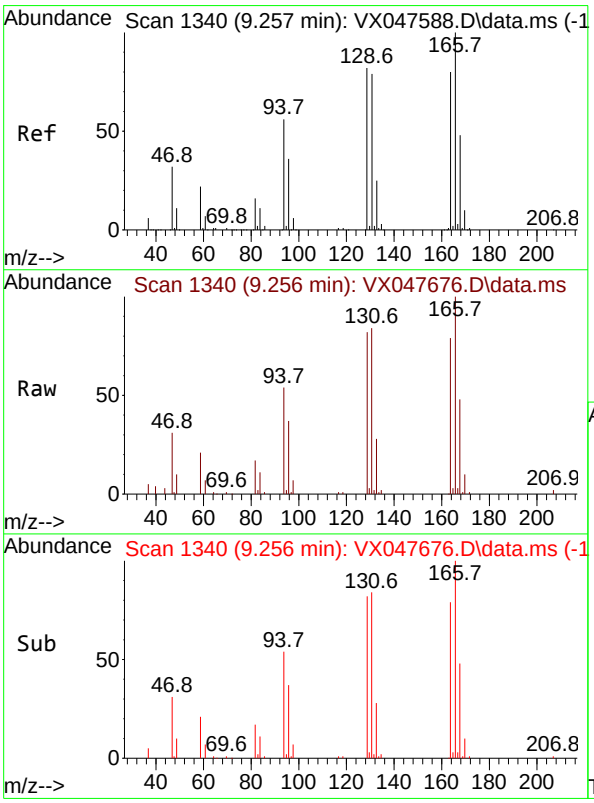
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Tgt Ion:117 Resp: 303934

Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.8	71.6
119	31.4	25.2	37.8

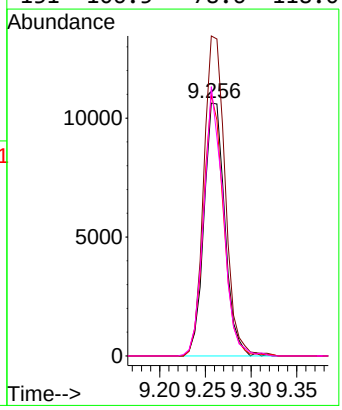


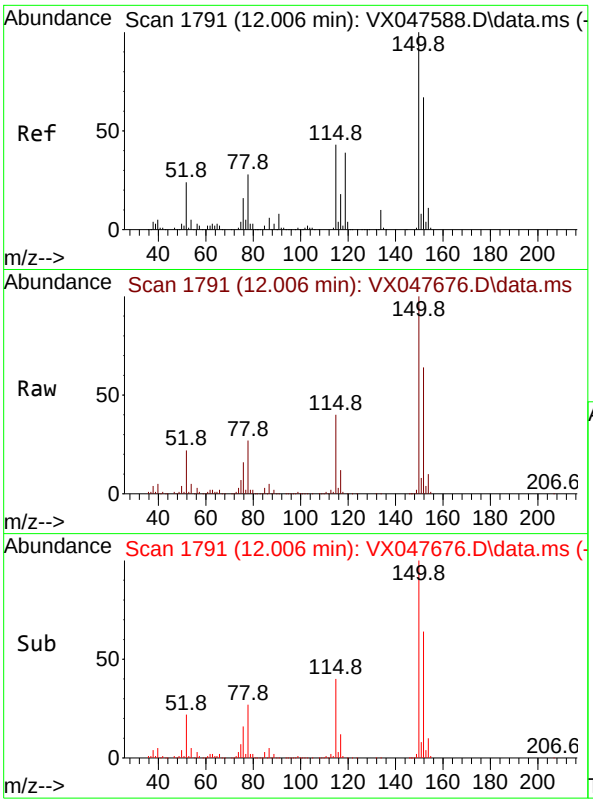


#64
Tetrachloroethene
Concen: 8.457 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Tgt Ion:164 Resp: 16757

Ion	Ratio	Lower	Upper
164	100		
166	126.6	100.2	150.2
129	103.3	81.8	122.6
131	106.5	78.6	118.0



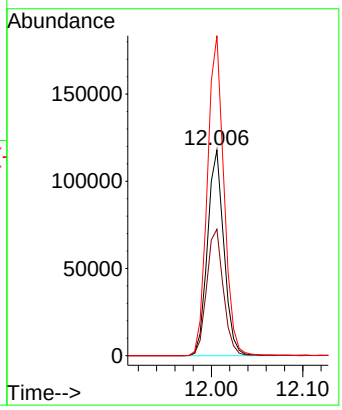


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047676.D
Acq: 19 Sep 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
RE125D1-20250911

Tgt Ion:152 Resp: 146768

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.9	134.5
150	157.0	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047677.D	1	09/19/25 15:36	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	130		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.92	J	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.20		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	68.9		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047677.D	1	09/19/25 15:36	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	11.4		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.0		81 - 118		114%	SPK: 50
1868-53-7	Dibromofluoromethane	55.0		80 - 119		110%	SPK: 50
2037-26-5	Toluene-d8	55.2		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.4		85 - 114		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	175000	5.544				
540-36-3	1,4-Difluorobenzene	323000	6.745				
3114-55-4	Chlorobenzene-d5	295000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	143000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047677.D	1	09/19/25 15:36	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047677.D
Acq On : 19 Sep 2025 15:36
Operator : JC/MD
Sample : Q3097-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20250911

Quant Time: Sep 20 00:33:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

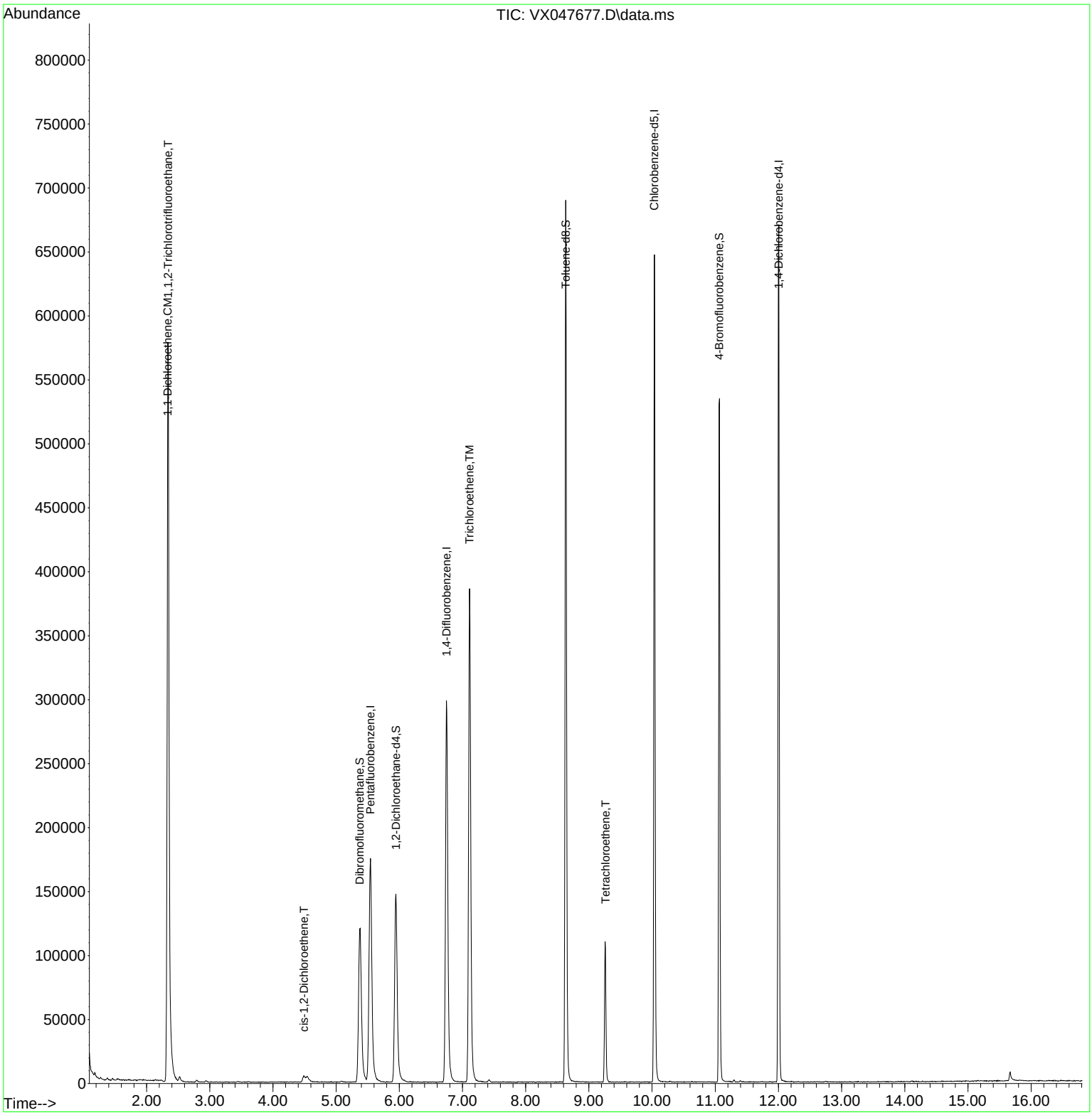
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	174878	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	323460	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	294926	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	143358	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	158730	57.023	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.040%			
35) Dibromofluoromethane	5.373	113	119240	54.967	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.940%			
50) Toluene-d8	8.635	98	413988	55.153	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 110.300%			
62) 4-Bromofluorobenzene	11.061	95	157955	55.447	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.900%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	272046	134.496	ug/l	98
12) 1,1-Dichloroethene	2.331	96	1913	0.921	ug/l #	83
27) cis-1,2-Dichloroethene	4.489	96	3402	1.242	ug/l	96
44) Trichloroethene	7.110	130	160446	68.931	ug/l	95
64) Tetrachloroethene	9.262	164	21859	11.369	ug/l	95

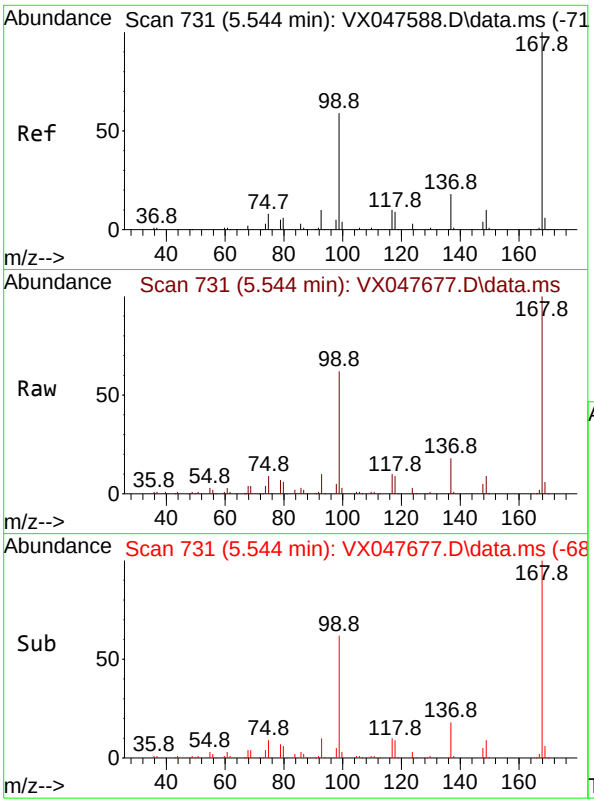
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047677.D
Acq On : 19 Sep 2025 15:36
Operator : JC/MD
Sample : Q3097-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20250911

Quant Time: Sep 20 00:33:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



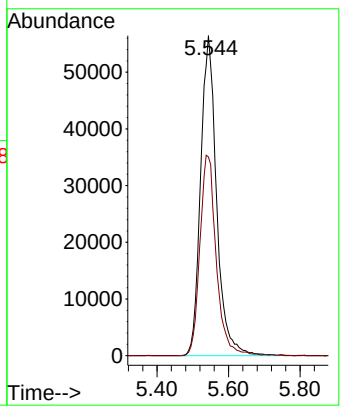


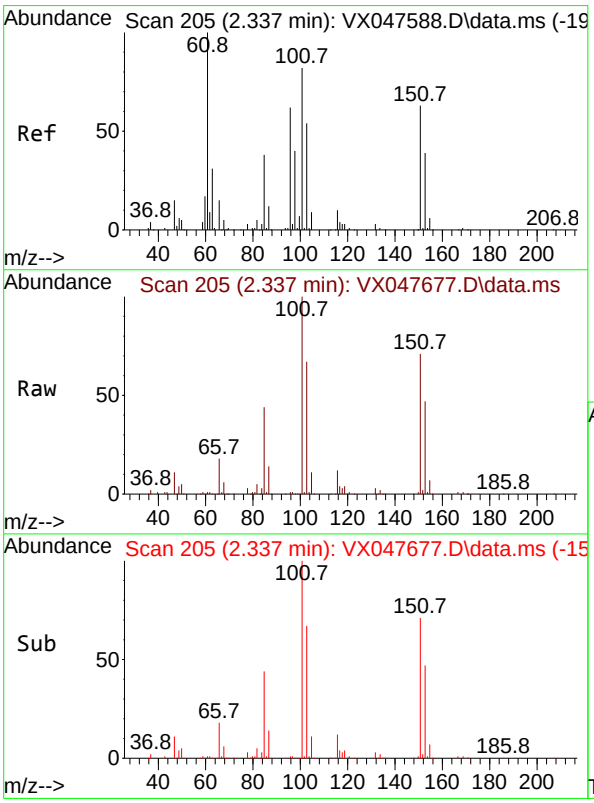
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20250911

Tgt Ion:168 Resp: 174878

Ion	Ratio	Lower	Upper
168	100		
99	62.1	48.8	73.2

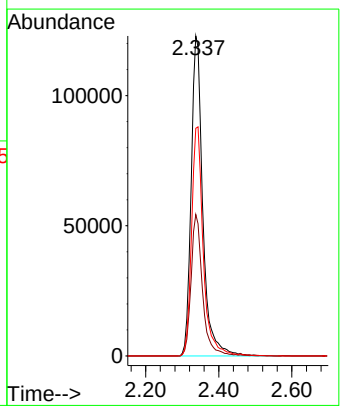


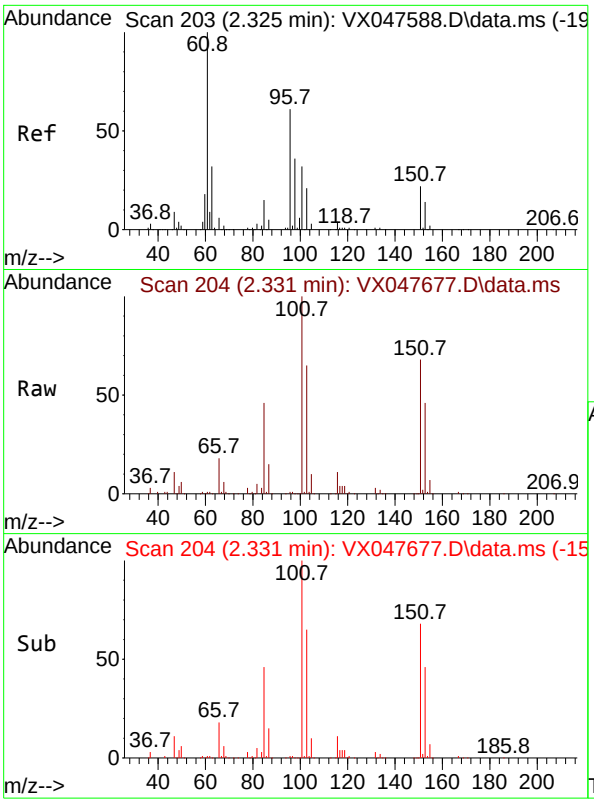


#9
1,1,2-Trichlorotrifluoroethane
Concen: 134.496 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Tgt Ion:101 Resp: 272046

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.5	53.3
151	72.5	59.4	89.0



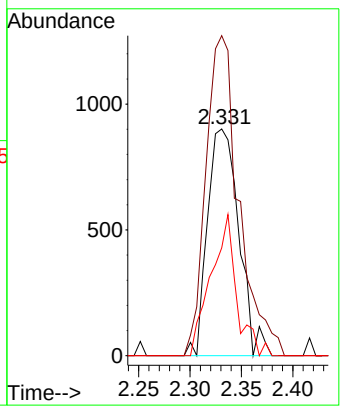


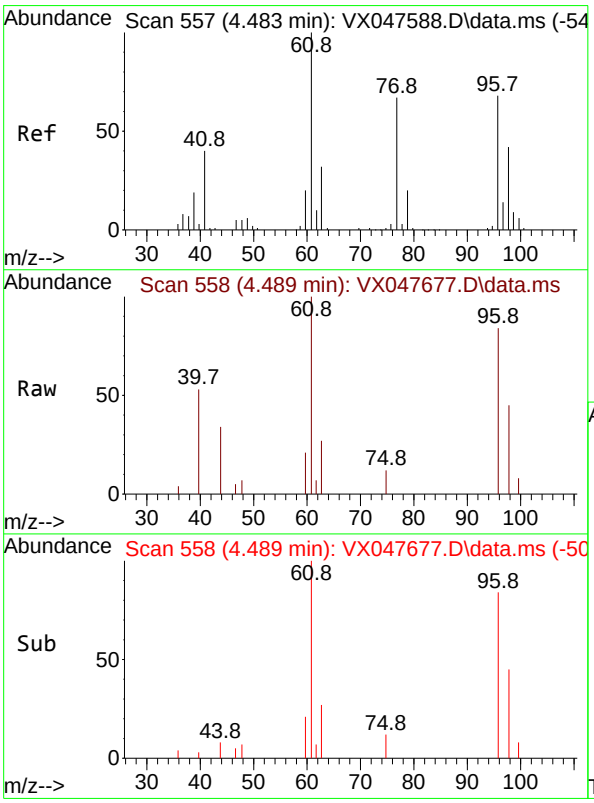
#12
1,1-Dichloroethene
Concen: 0.921 ug/l
RT: 2.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20250911

Tgt Ion: 96 Resp: 1913

Ion	Ratio	Lower	Upper
96	100		
61	141.2	131.0	196.6
98	47.6	47.7	71.5#

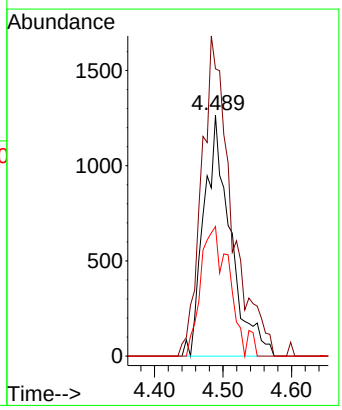


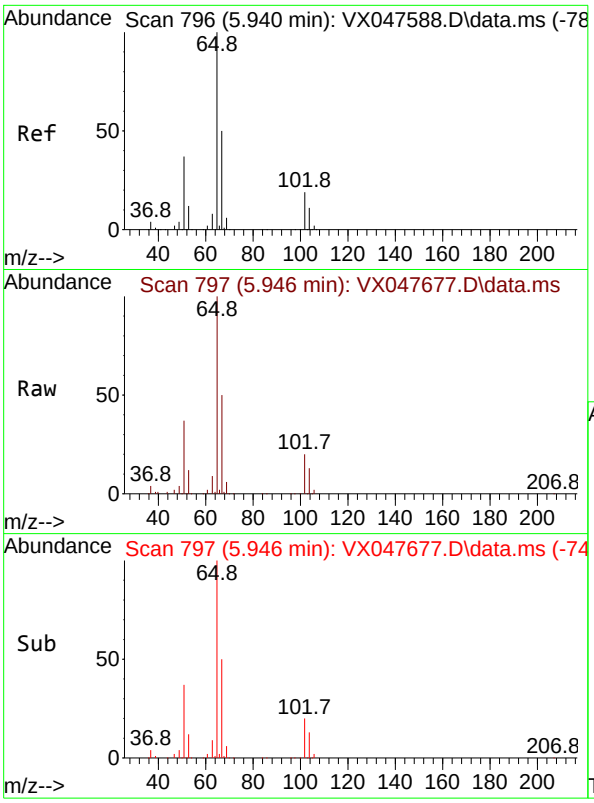


#27
cis-1,2-Dichloroethene
Concen: 1.242 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Tgt Ion: 96 Resp: 3402

Ion	Ratio	Lower	Upper
96	100		
61	149.1	0.0	303.2
98	56.2	0.0	127.8



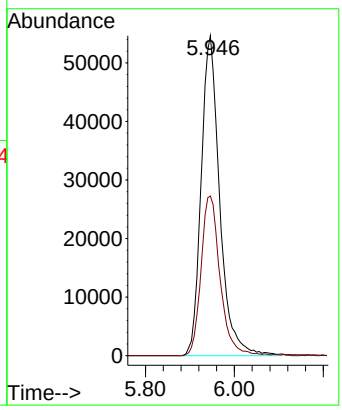


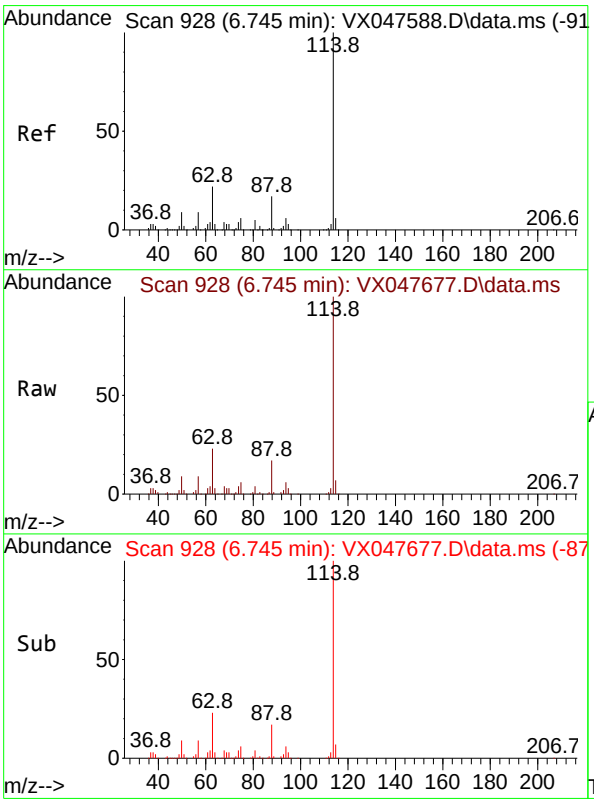
#33
1,2-Dichloroethane-d4
Concen: 57.023 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20250911

Tgt Ion: 65 Resp: 158730

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.0

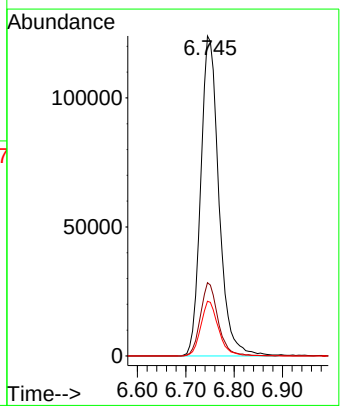


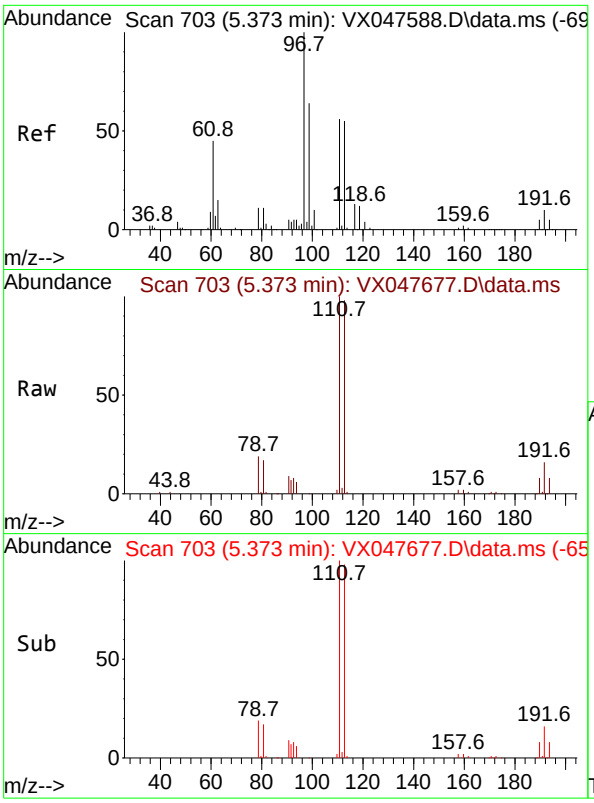


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Tgt Ion:114 Resp: 323460

Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	44.0
88	17.1	0.0	34.2



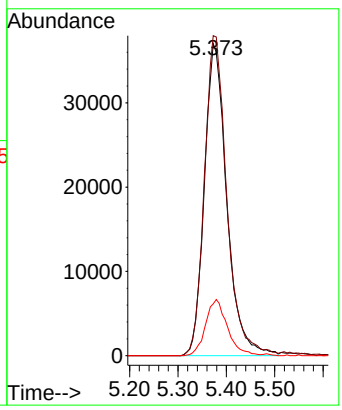


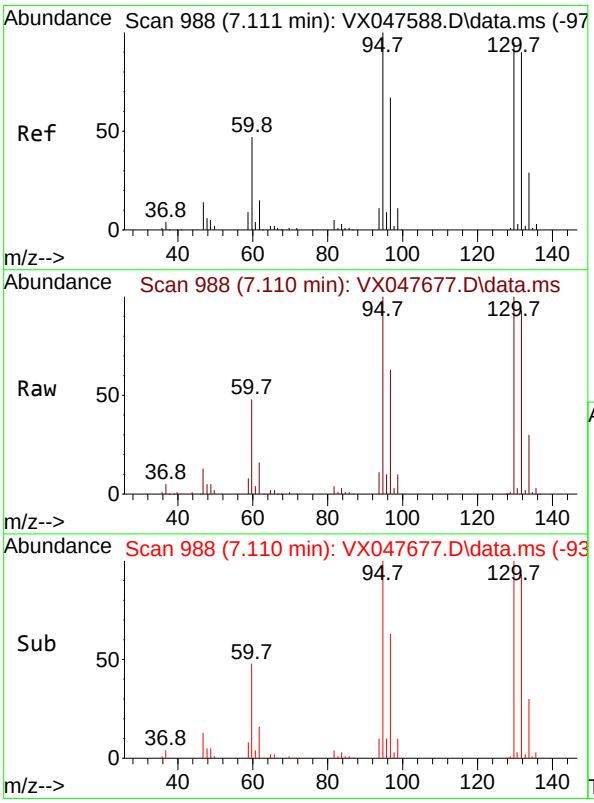
#35
Dibromofluoromethane
Concen: 54.967 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20250911

Tgt Ion:113 Resp: 119240

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.9	121.3
192	17.6	14.2	21.4

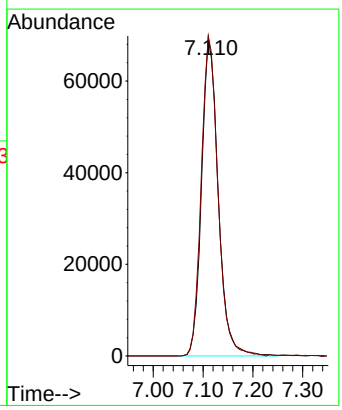


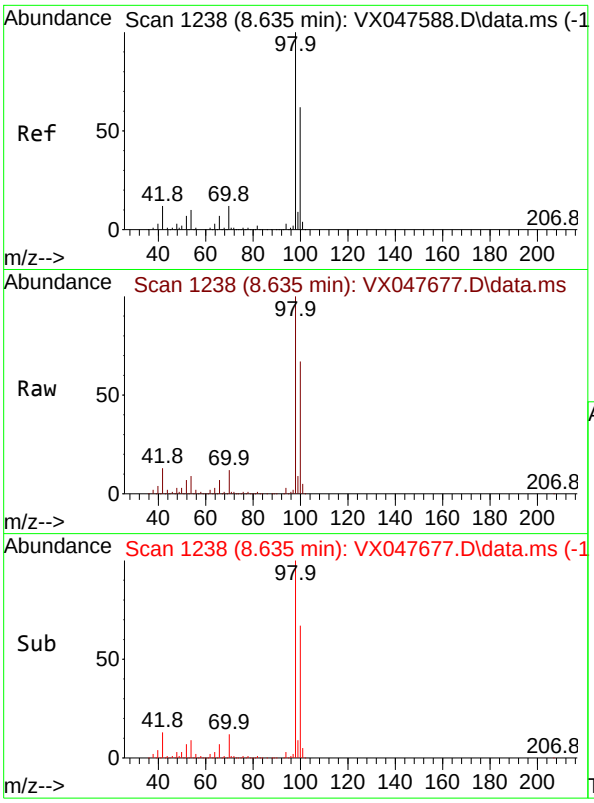


#44
Trichloroethene
Concen: 68.931 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Tgt Ion:130 Resp: 160446

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	210.8



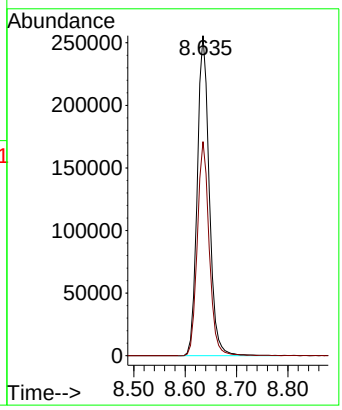


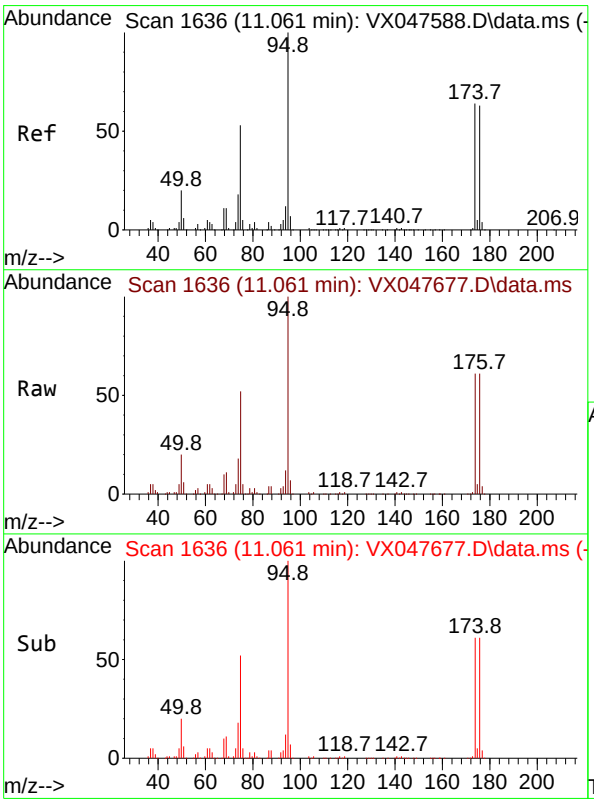
#50
Toluene-d8
Concen: 55.153 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20250911

Tgt Ion: 98 Resp: 413988

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4

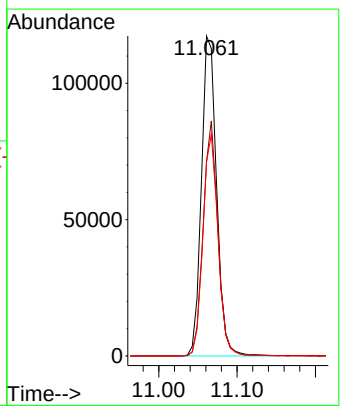


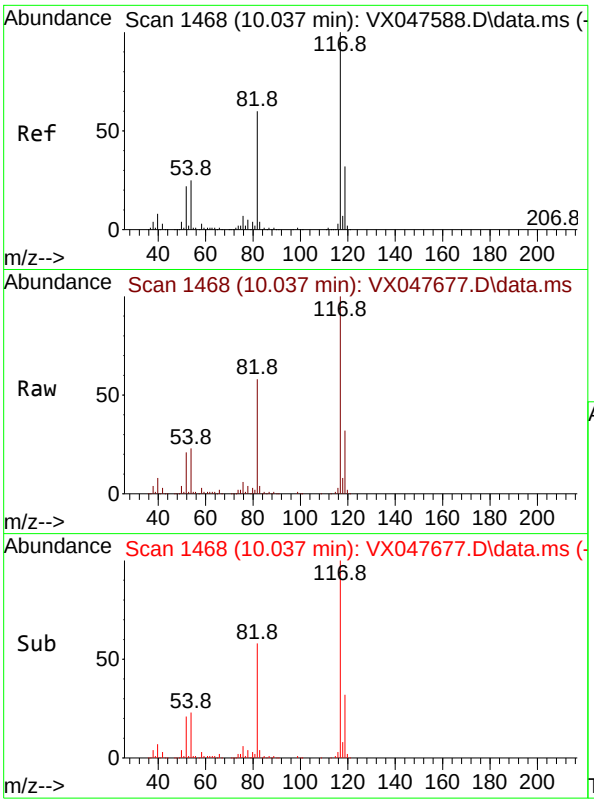


#62
4-Bromofluorobenzene
Concen: 55.447 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Tgt Ion: 95 Resp: 157955

Ion	Ratio	Lower	Upper
95	100		
174	70.9	0.0	141.6
176	68.7	0.0	138.4



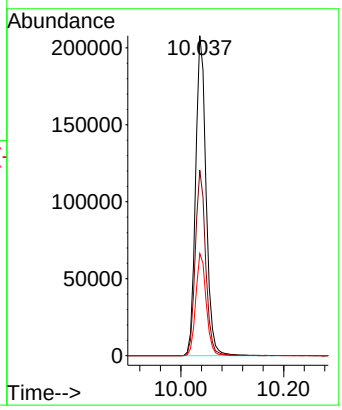


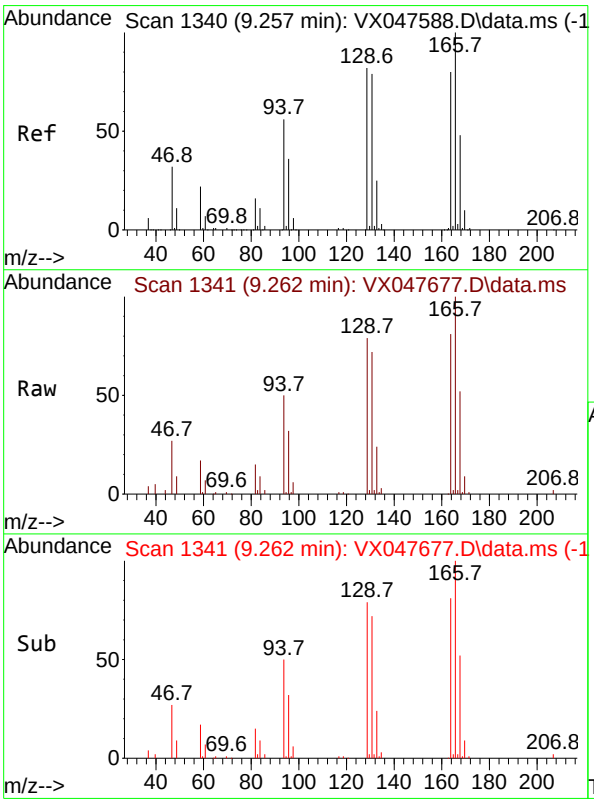
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20250911

Tgt Ion:117 Resp: 294926

Ion	Ratio	Lower	Upper
117	100		
82	58.0	47.8	71.6
119	31.9	25.2	37.8

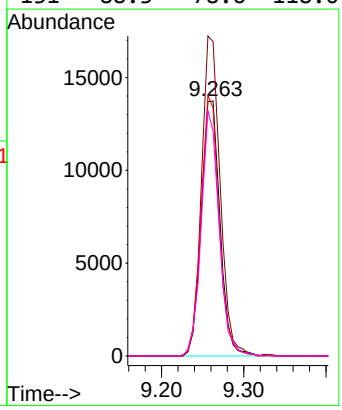


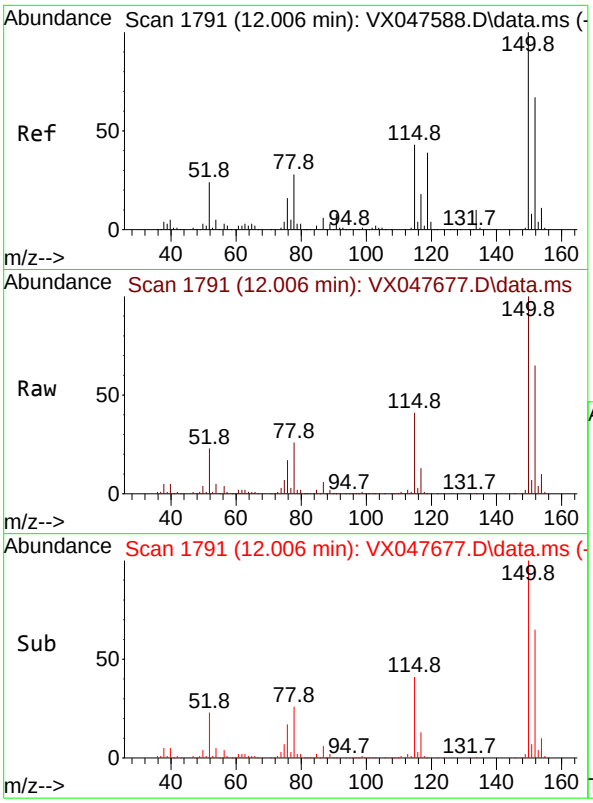


#64
Tetrachloroethene
Concen: 11.369 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Tgt Ion:164 Resp: 21859

Ion	Ratio	Lower	Upper
164	100		
166	123.3	100.2	150.2
129	97.4	81.8	122.6
131	88.3	78.6	118.0



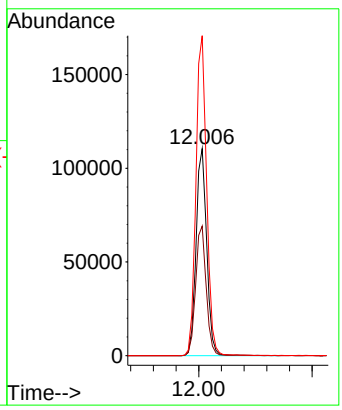


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047677.D
Acq: 19 Sep 2025 15:36

Instrument :
MSVOA_X
ClientSampleId :
RE125D3-20250911

Tgt Ion:152 Resp: 143358

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.9	134.5
150	155.9	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047678.D	1	09/19/25 15:57	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.10	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	84.2		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047678.D	1	09/19/25 15:57	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.43	J	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.6		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	52.9		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.4		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	167000	5.544				
540-36-3	1,4-Difluorobenzene	309000	6.751				
3114-55-4	Chlorobenzene-d5	279000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	135000	12.006				

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047678.D	1	09/19/25 15:57	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047678.D
Acq On : 19 Sep 2025 15:57
Operator : JC/MD
Sample : Q3097-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20250911

Quant Time: Sep 20 00:34:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

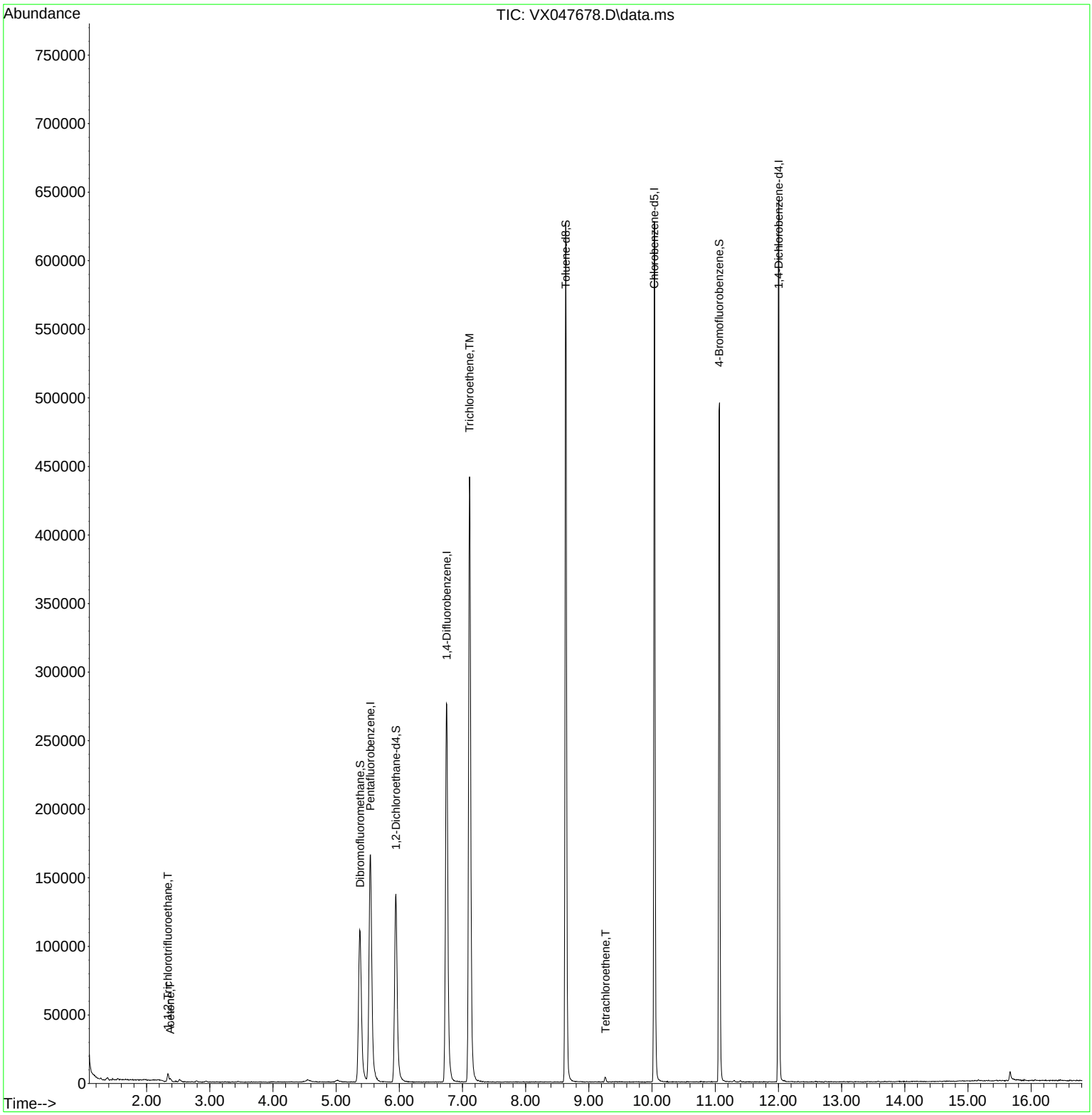
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	166867	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	308997	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	279494	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	134673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	147555	55.553	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.100%			
35) Dibromofluoromethane	5.379	113	109111	52.652	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.300%			
50) Toluene-d8	8.635	98	379125	52.872	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 105.740%			
62) 4-Bromofluorobenzene	11.061	95	145340	53.407	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.820%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	2520	1.306	ug/l	97
16) Acetone	2.373	43	2476	2.144	ug/l	90
44) Trichloroethene	7.110	130	187117	84.153	ug/l	99
64) Tetrachloroethene	9.262	164	779	0.428	ug/l	93

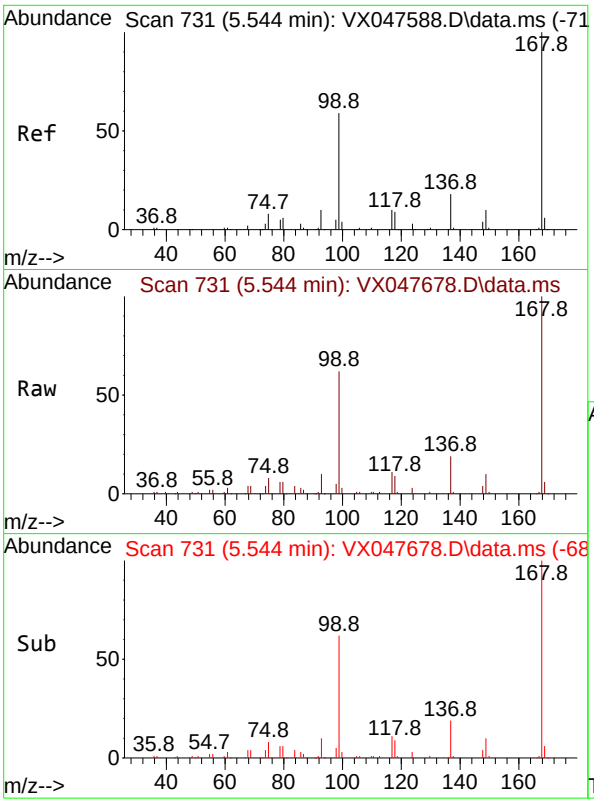
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047678.D
Acq On : 19 Sep 2025 15:57
Operator : JC/MD
Sample : Q3097-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20250911

Quant Time: Sep 20 00:34:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



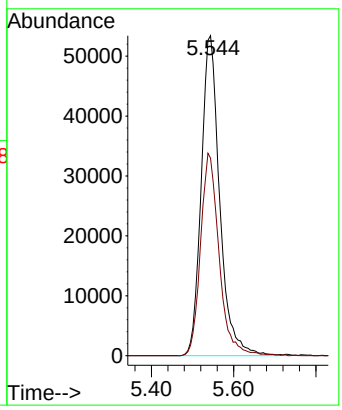


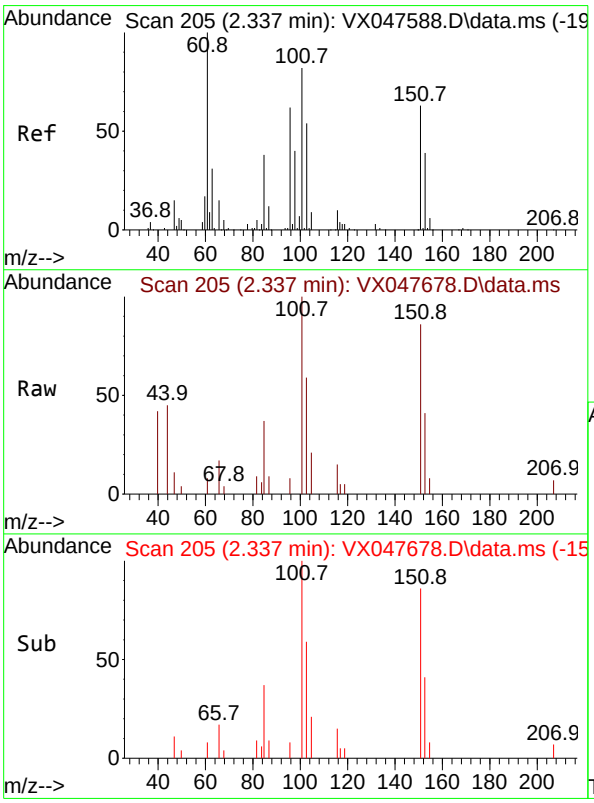
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20250911

Tgt Ion:168 Resp: 166867

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.8	73.2

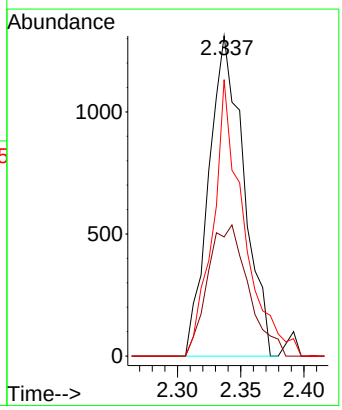


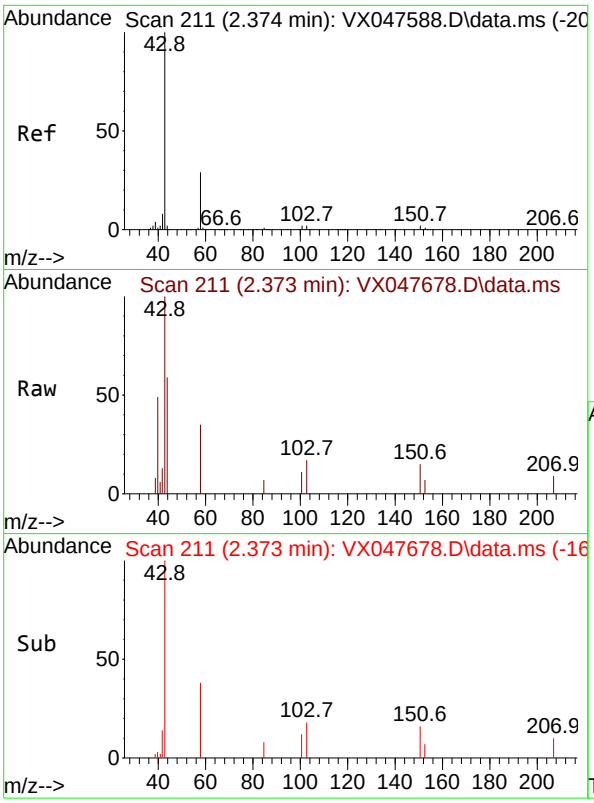


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.306 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Tgt Ion:101 Resp: 2520

Ion	Ratio	Lower	Upper
101	100		
85	47.6	35.5	53.3
151	76.0	59.4	89.0



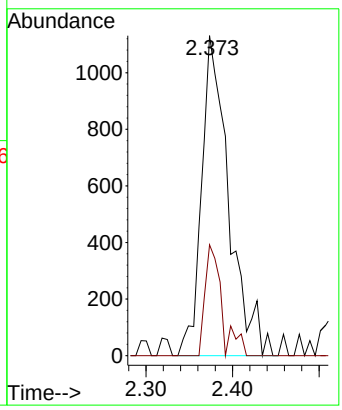


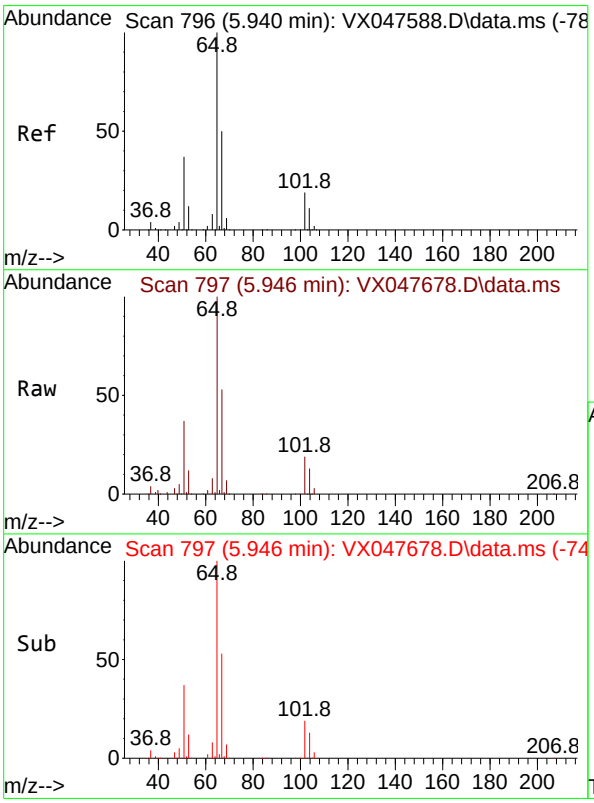
#16
Acetone
Concen: 2.144 ug/l
RT: 2.373 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20250911

Tgt Ion: 43 Resp: 2476

Ion	Ratio	Lower	Upper
43	100		
58	34.7	23.4	35.0

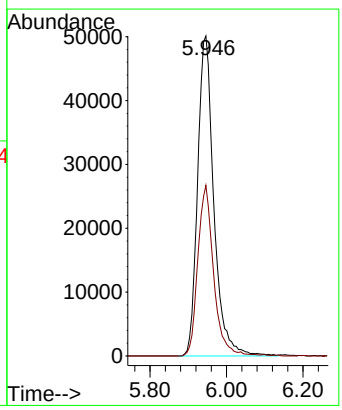


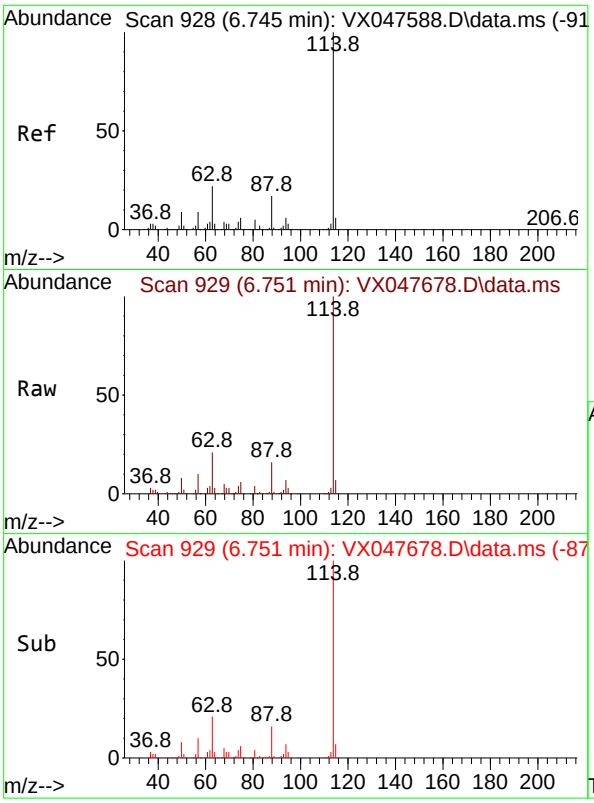


#33
1,2-Dichloroethane-d4
Concen: 55.553 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Tgt Ion: 65 Resp: 147555

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.0



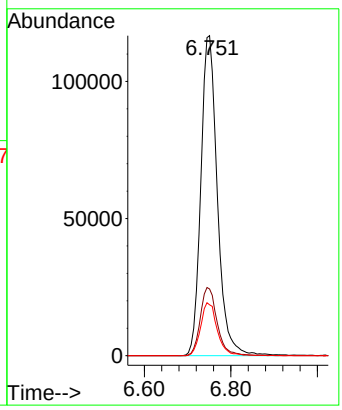


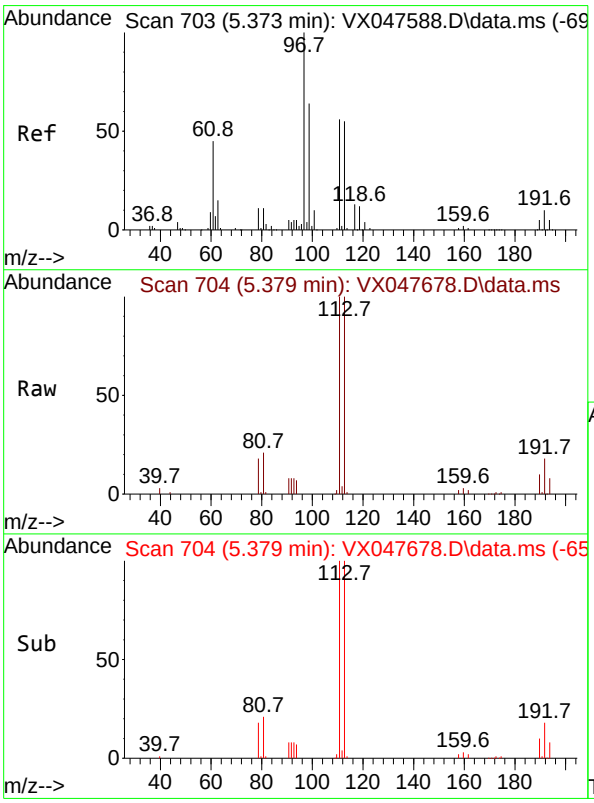
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20250911

Tgt Ion:114 Resp: 308997

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	44.0
88	15.9	0.0	34.2

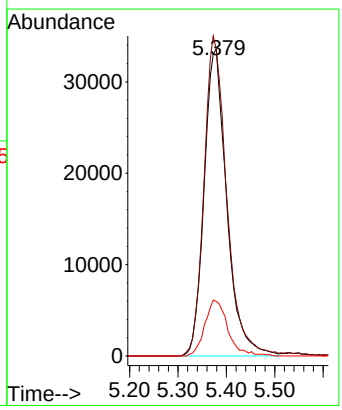


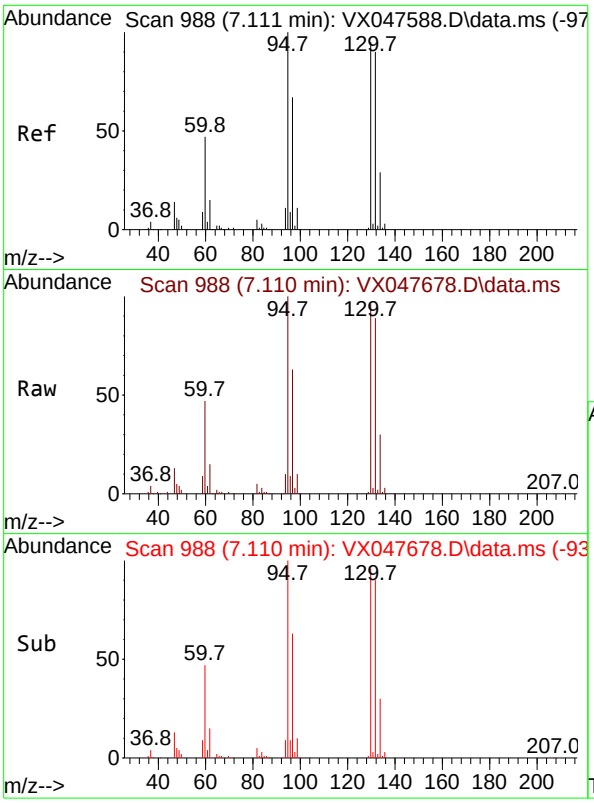


#35
Dibromofluoromethane
Concen: 52.652 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Tgt Ion:113 Resp: 109111

Ion	Ratio	Lower	Upper
113	100		
111	104.8	80.9	121.3
192	18.6	14.2	21.4



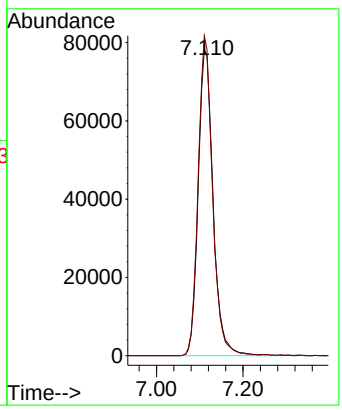


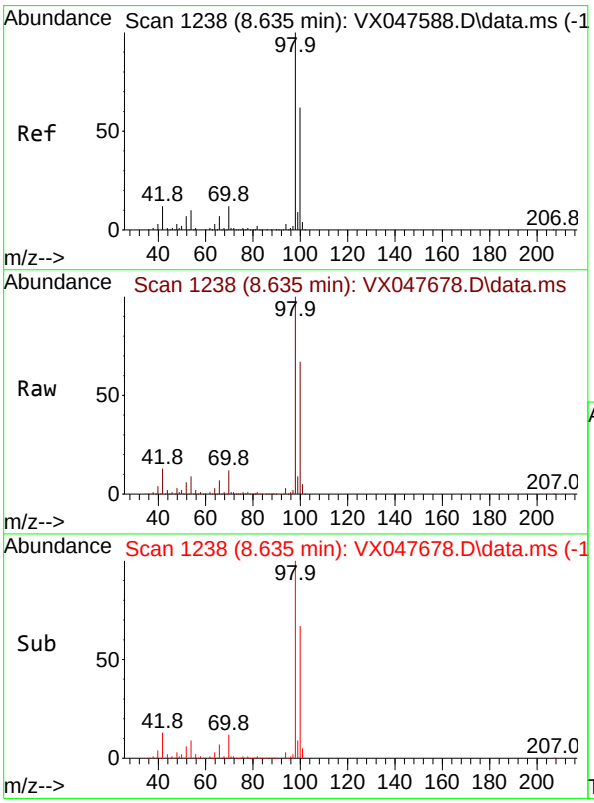
#44
Trichloroethene
Concen: 84.153 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20250911

Tgt Ion:130 Resp: 187117

Ion	Ratio	Lower	Upper
130	100		
95	104.5	0.0	210.8

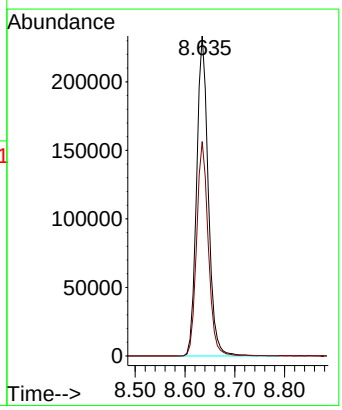


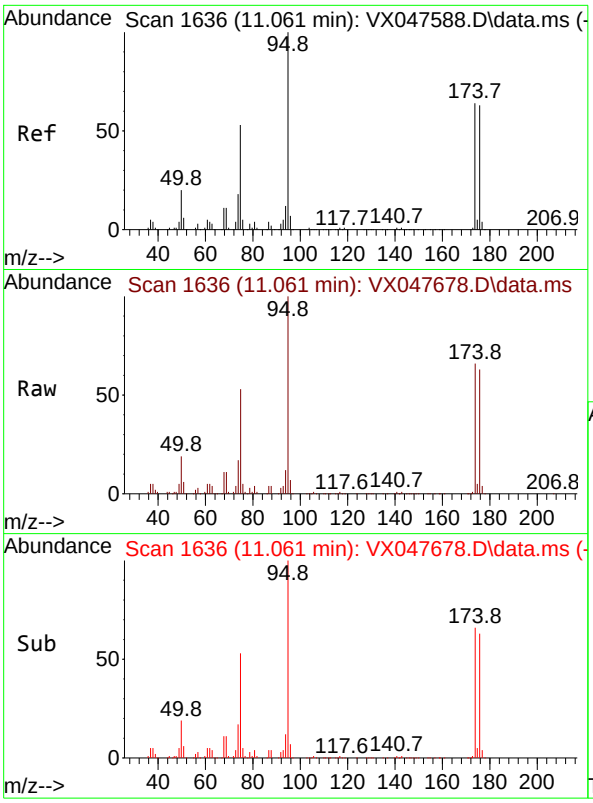


#50
Toluene-d8
Concen: 52.872 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Tgt Ion: 98 Resp: 379125

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4



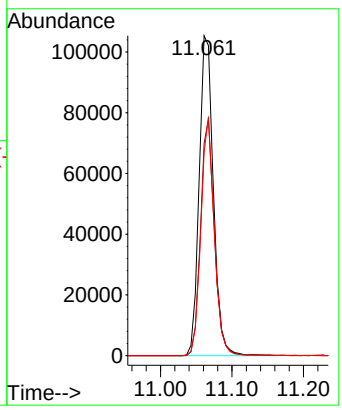


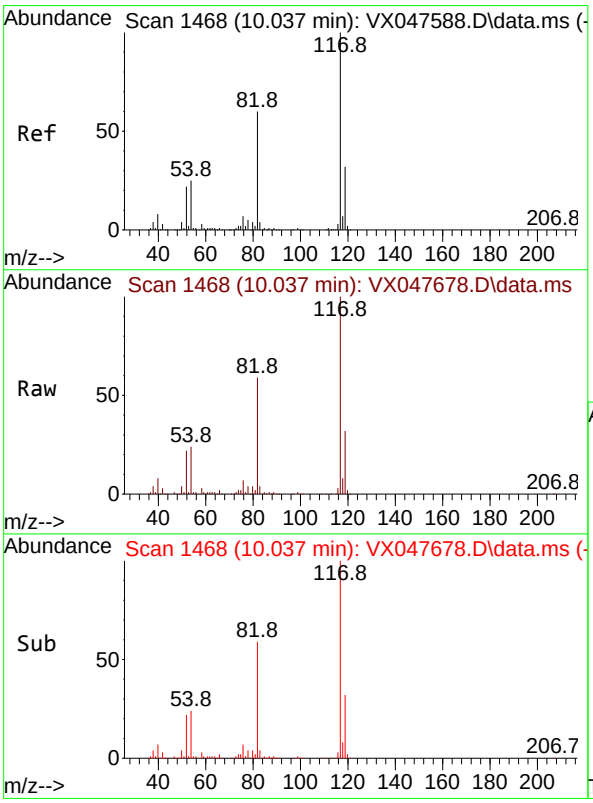
#62
4-Bromofluorobenzene
Concen: 53.407 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20250911

Tgt Ion: 95 Resp: 145340

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	141.6
176	70.1	0.0	138.4

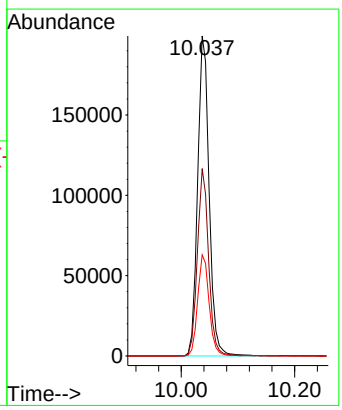


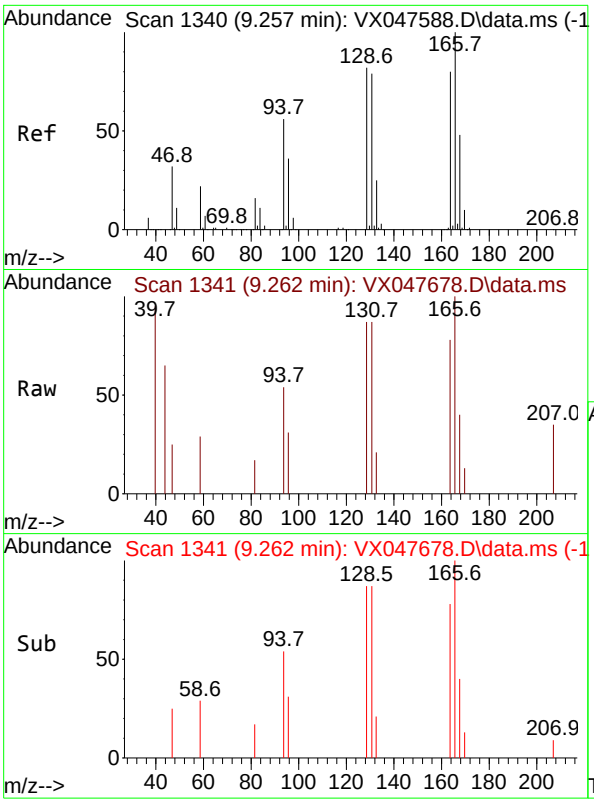


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Tgt Ion:117 Resp: 279494

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.8	71.6
119	31.6	25.2	37.8



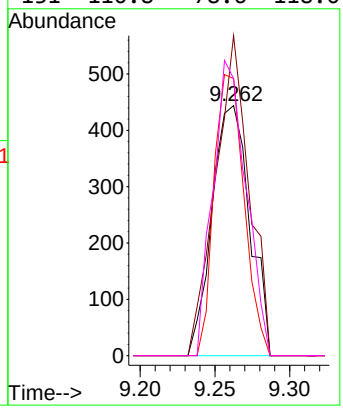


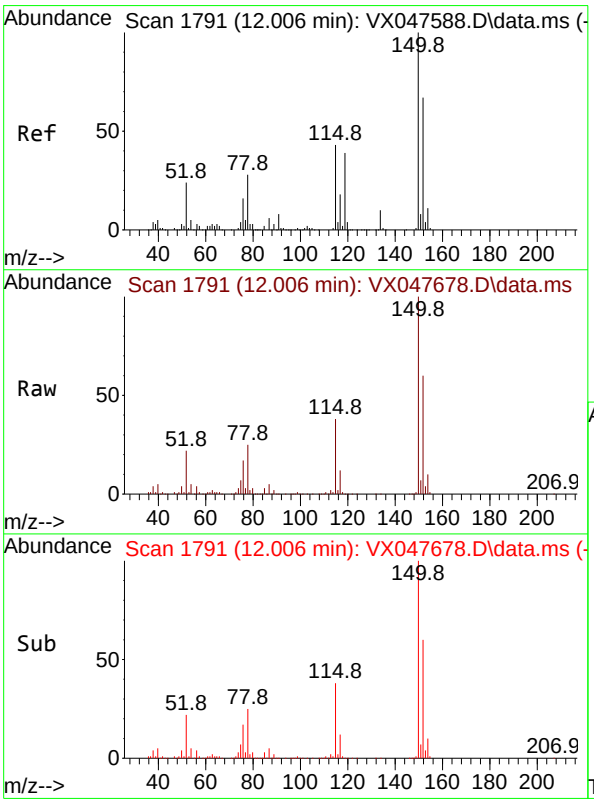
#64
Tetrachloroethene
Concen: 0.428 ug/l
RT: 9.262 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Instrument :
MSVOA_X
ClientSampleId :
RE103D3-20250911

Tgt Ion:164 Resp: 779

Ion	Ratio	Lower	Upper
164	100		
166	127.9	100.2	150.2
129	110.8	81.8	122.6
131	110.8	78.6	118.0

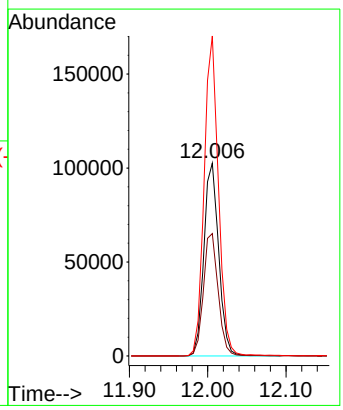




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047678.D
Acq: 19 Sep 2025 15:57

Tgt Ion:152 Resp: 134673

Ion	Ratio	Lower	Upper
152	100		
115	63.4	44.9	134.5
150	160.2	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047679.D	1	09/19/25 16:17	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.20		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	2.50		0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.50		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.60	J	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	2.70		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	1.10		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	1300	E	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047679.D	1	09/19/25 16:17	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	2.60		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.9		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	49.9		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	180000	5.544				
540-36-3	1,4-Difluorobenzene	330000	6.751				
3114-55-4	Chlorobenzene-d5	280000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	138000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047679.D	1	09/19/25 16:17	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047679.D
Acq On : 19 Sep 2025 16:17
Operator : JC/MD
Sample : Q3097-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Quant Time: Sep 20 00:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

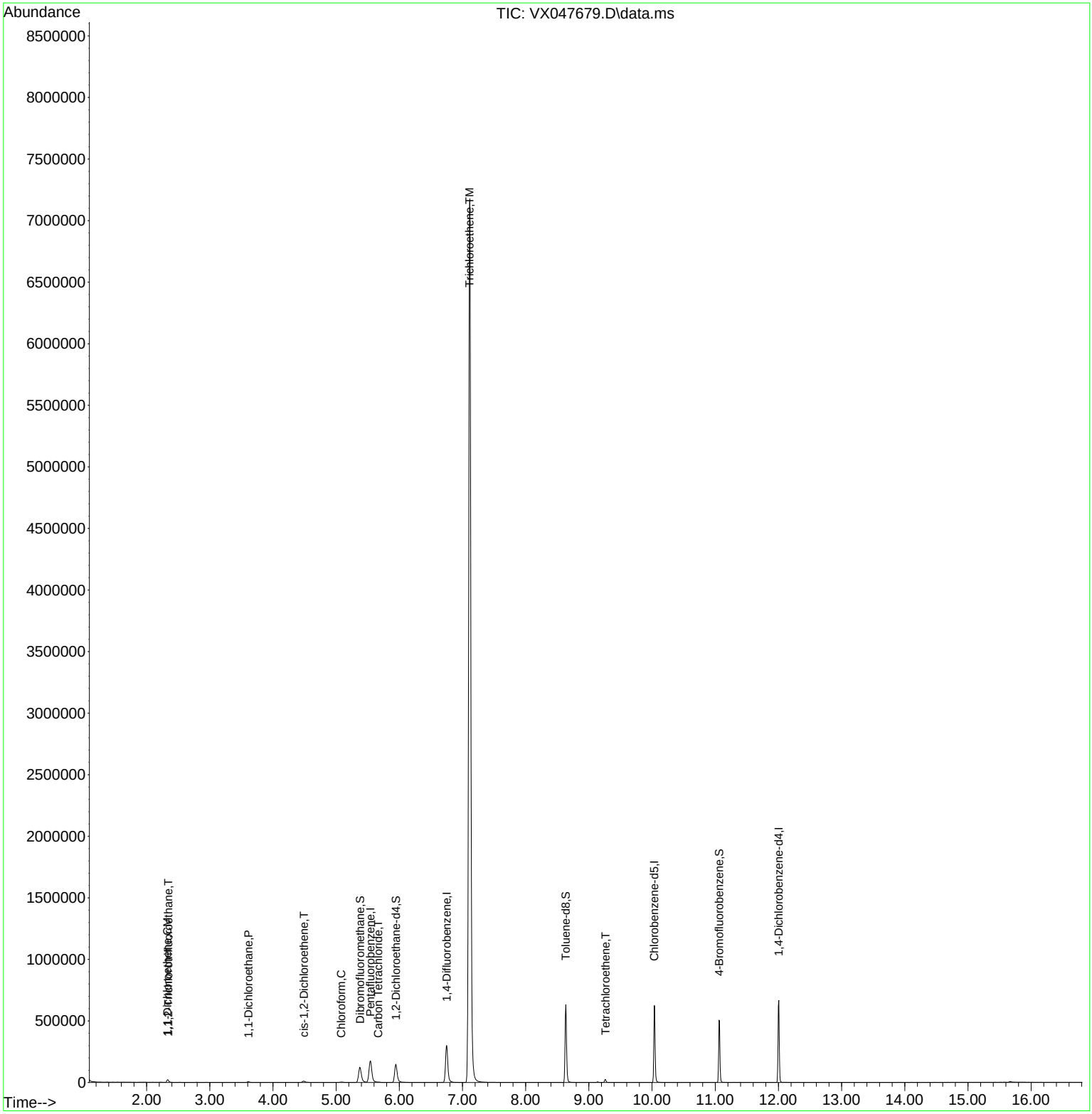
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	180253	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	329994	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	279542	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	137704	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	157402	54.860	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.720%			
35) Dibromofluoromethane	5.379	113	118552	53.568	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.140%			
50) Toluene-d8	8.635	98	382375	49.933	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.860%			
62) 4-Bromofluorobenzene	11.061	95	149571	51.465	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.920%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.343	101	4559	2.187	ug/l	98
12) 1,1-Dichloroethene	2.331	96	5262	2.457	ug/l	96
24) 1,1-Dichloroethane	3.611	63	7030	1.544	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	7496	2.655	ug/l	89
30) Chloroform	5.080	83	4859	1.056	ug/l #	77
38) Carbon Tetrachloride	5.666	117	2098	0.597	ug/l #	84
44) Trichloroethene	7.111	130	3014300	1269.373	ug/l	96
64) Tetrachloroethene	9.263	164	4744	2.603	ug/l	91

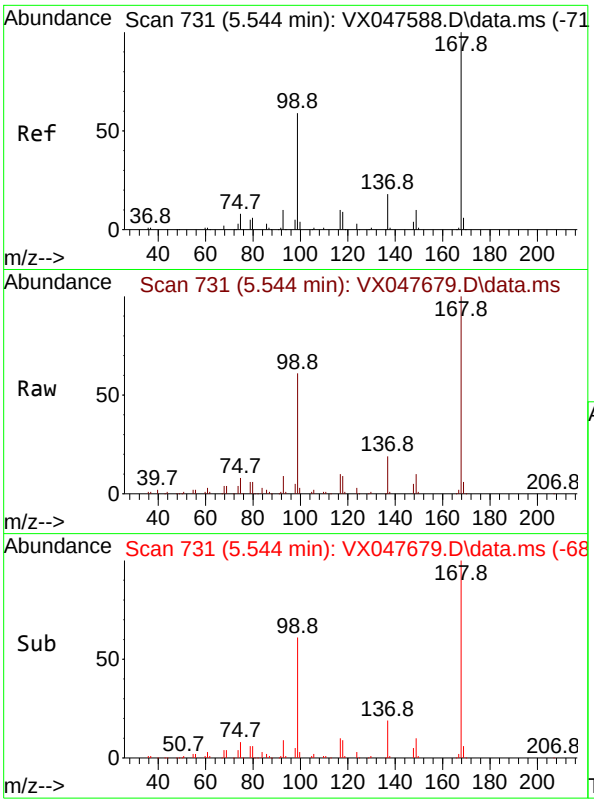
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047679.D
Acq On : 19 Sep 2025 16:17
Operator : JC/MD
Sample : Q3097-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Quant Time: Sep 20 00:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



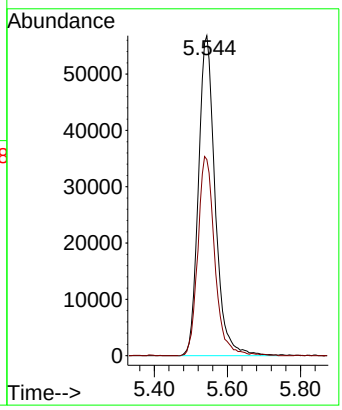


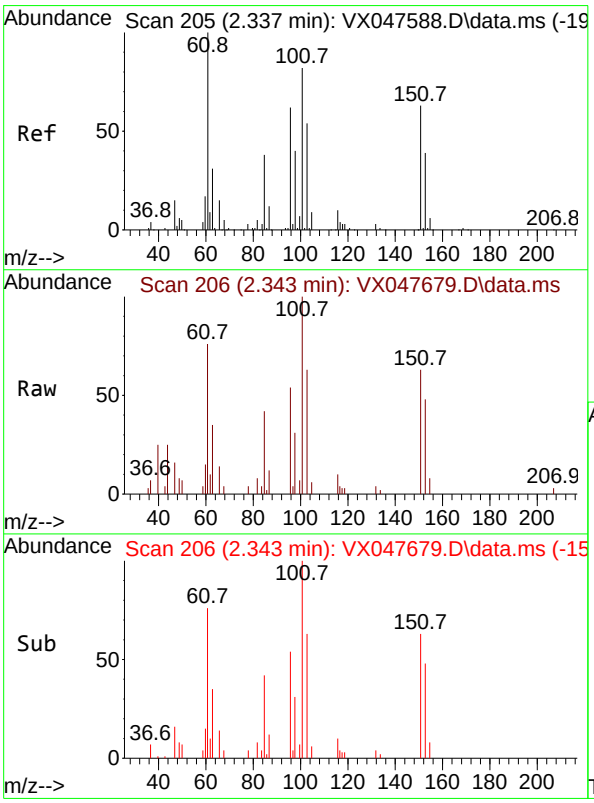
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Tgt Ion:168 Resp: 180253

Ion	Ratio	Lower	Upper
168	100		
99	61.3	48.8	73.2

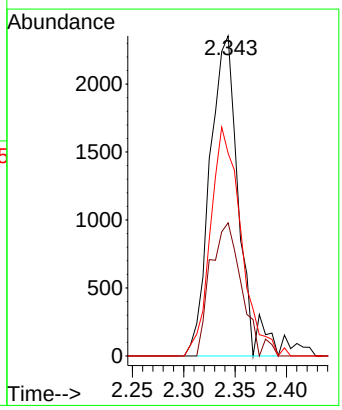


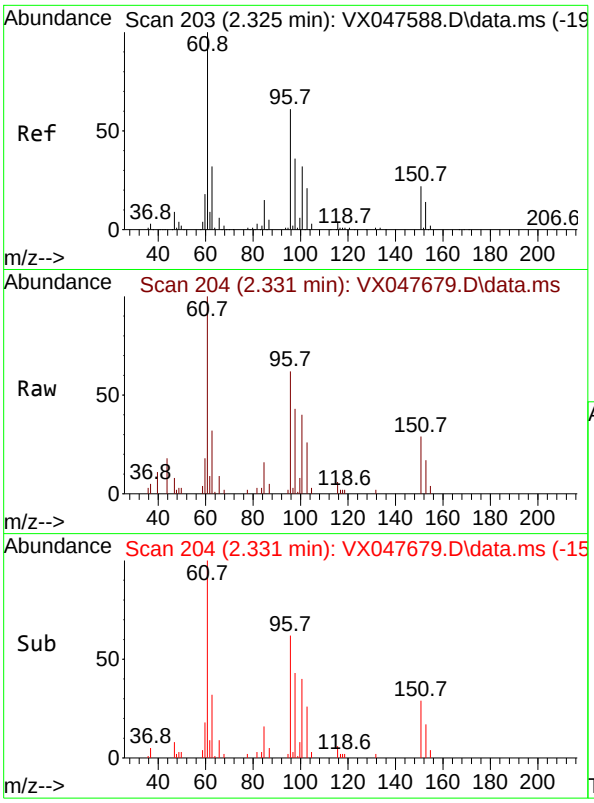


#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.187 ug/l
RT: 2.343 min Scan# 206
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion:101 Resp: 4559

Ion	Ratio	Lower	Upper
101	100		
85	45.5	35.5	53.3
151	76.6	59.4	89.0



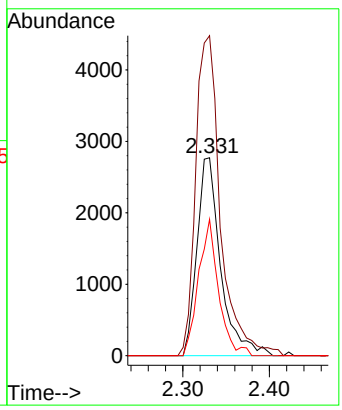


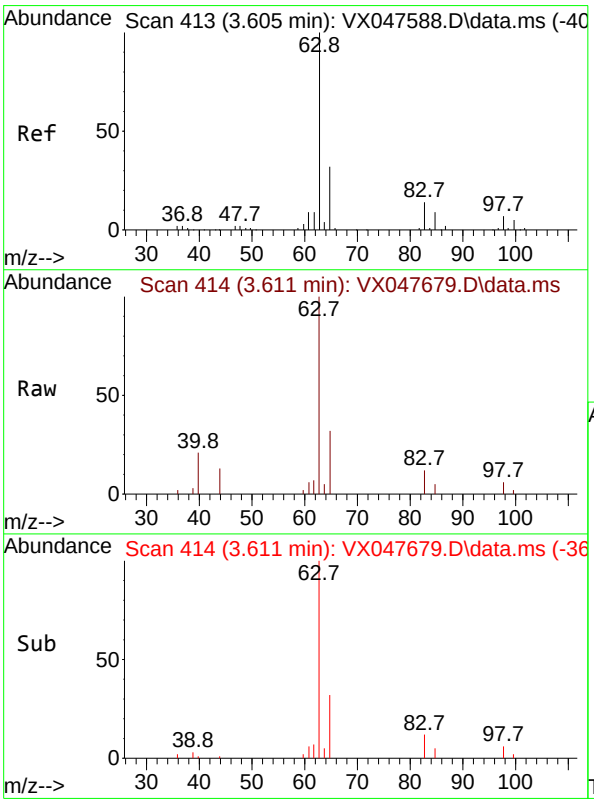
#12
1,1-Dichloroethene
Concen: 2.457 ug/l
RT: 2.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Tgt Ion: 96 Resp: 5262

Ion	Ratio	Lower	Upper
96	100		
61	161.7	131.0	196.6
98	68.9	47.7	71.5

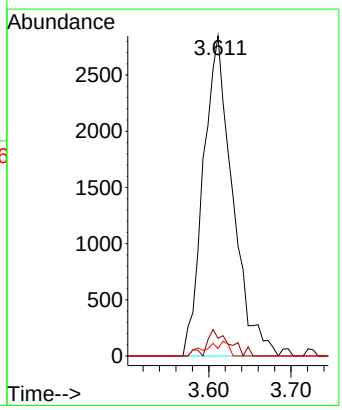


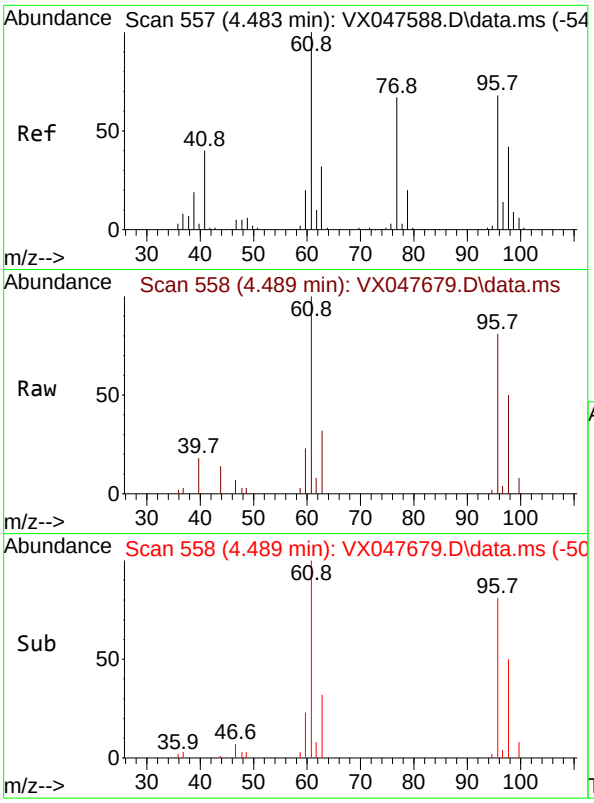


#24
1,1-Dichloroethane
Concen: 1.544 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 63 Resp: 7030

Ion	Ratio	Lower	Upper
63	100		
98	5.5	3.8	11.2
100	2.4	2.3	6.9



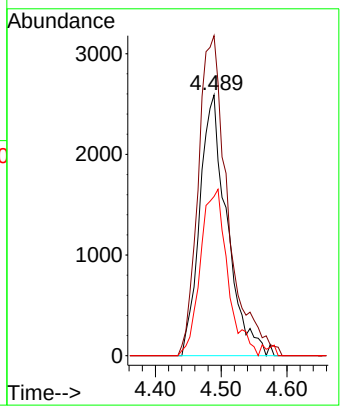


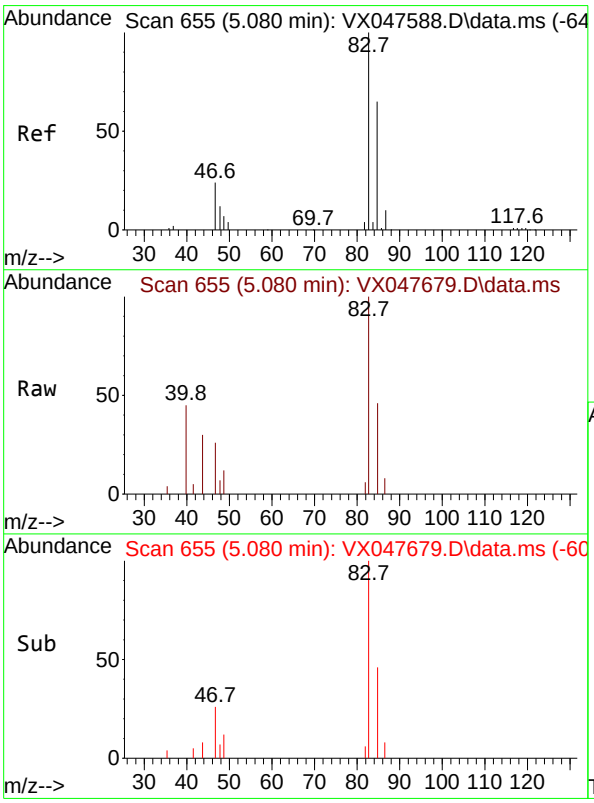
#27
cis-1,2-Dichloroethene
Concen: 2.655 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Tgt Ion: 96 Resp: 7496

Ion	Ratio	Lower	Upper
96	100		
61	133.0	0.0	303.2
98	63.3	0.0	127.8

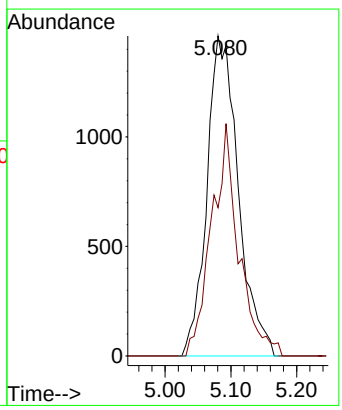


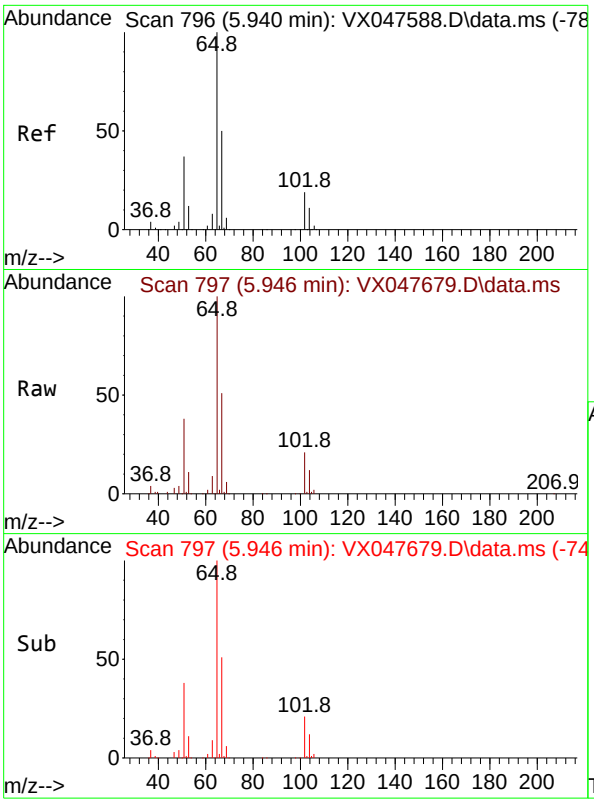


#30
Chloroform
Concen: 1.056 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 83 Resp: 4859

Ion	Ratio	Lower	Upper
83	100		
85	46.3	51.8	77.6#



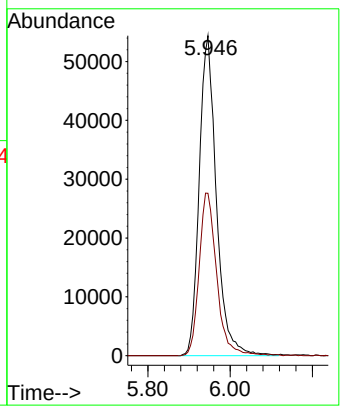


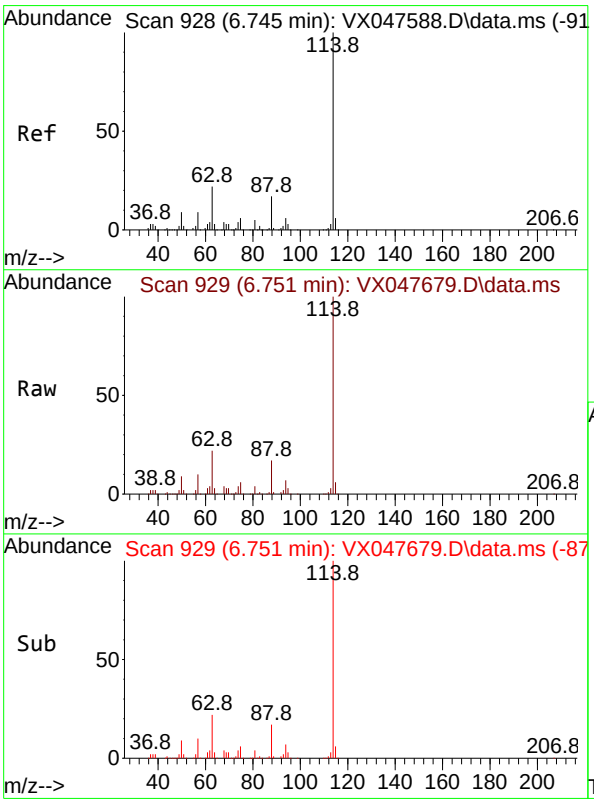
#33
1,2-Dichloroethane-d4
Concen: 54.860 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Tgt Ion: 65 Resp: 157402

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0

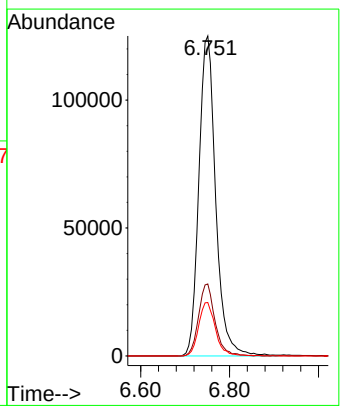


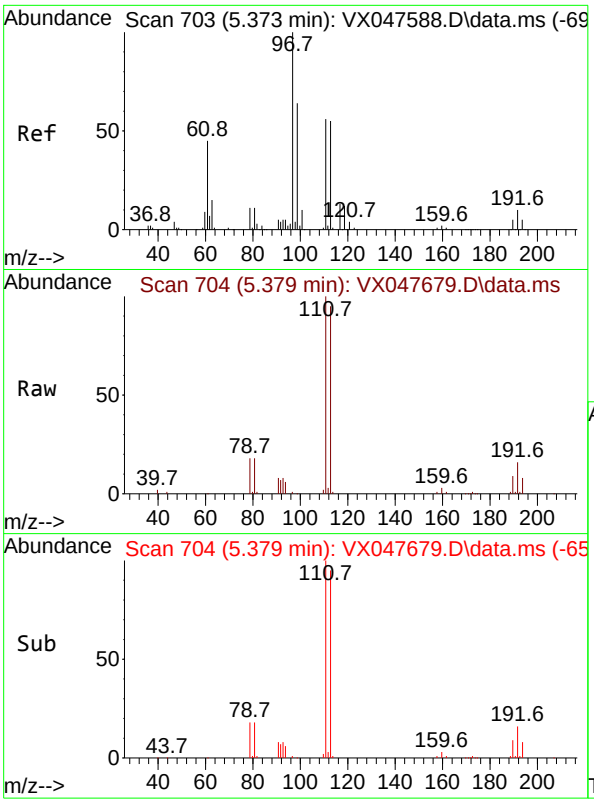


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion:114 Resp: 329994

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.7	0.0	34.2



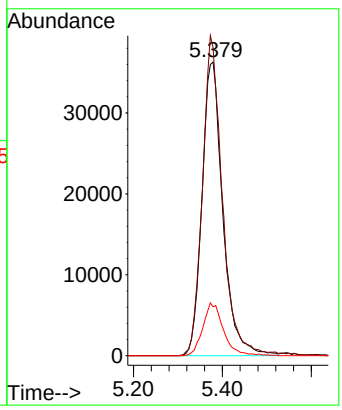


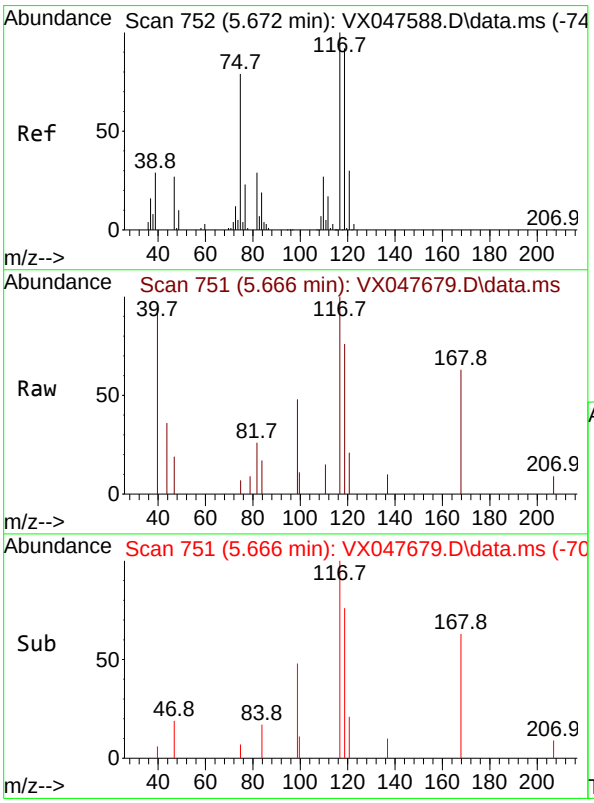
#35
Dibromofluoromethane
Concen: 53.568 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Tgt Ion:113 Resp: 118552

Ion	Ratio	Lower	Upper
113	100		
111	104.0	80.9	121.3
192	17.9	14.2	21.4

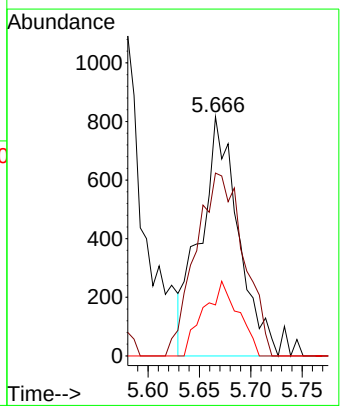


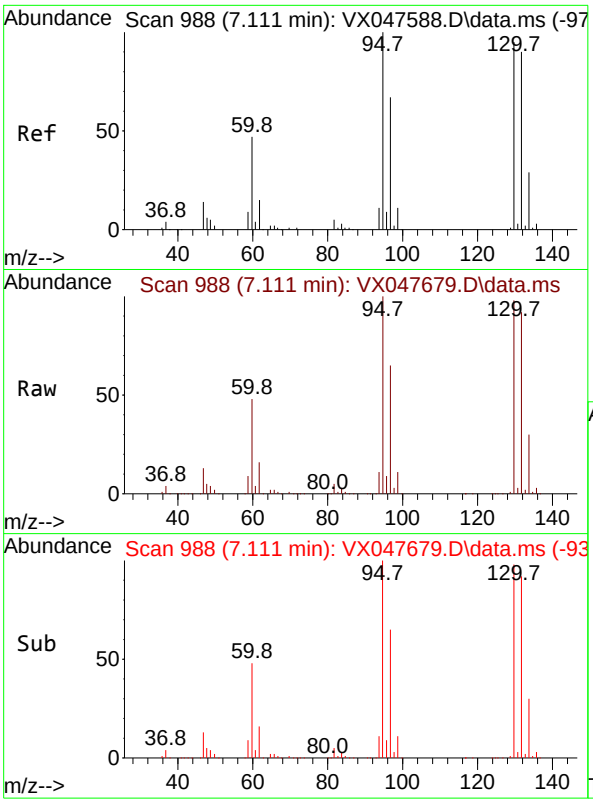


#38
Carbon Tetrachloride
Concen: 0.597 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion:117 Resp: 2098

Ion	Ratio	Lower	Upper
117	100		
119	76.5	73.4	110.2
121	21.3	23.8	35.6#



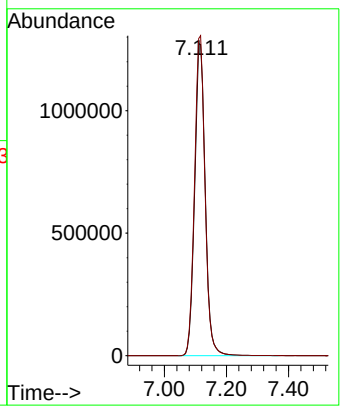


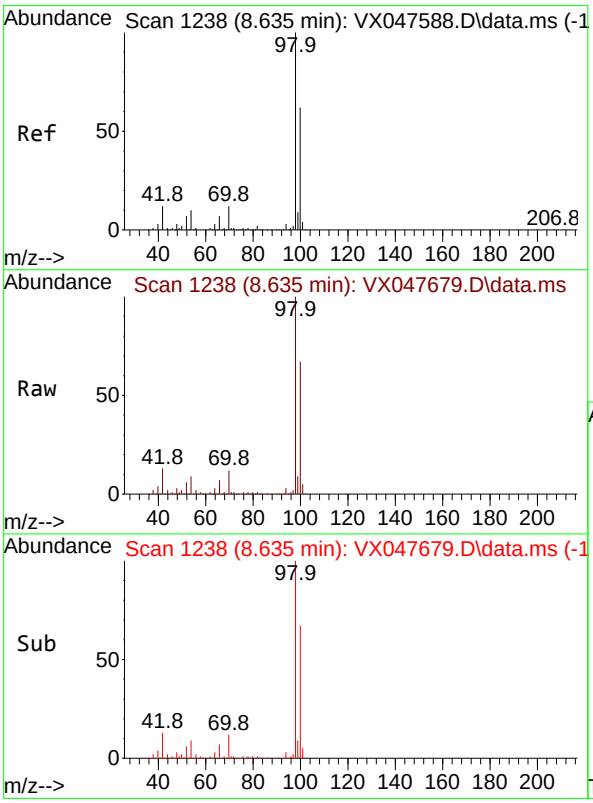
#44
Trichloroethene
Concen: 1269.373 ug/l
RT: 7.111 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Tgt Ion:130 Resp: 3014300

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	210.8

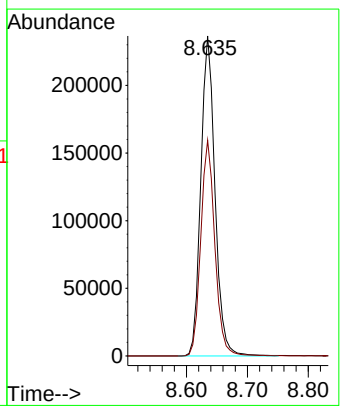


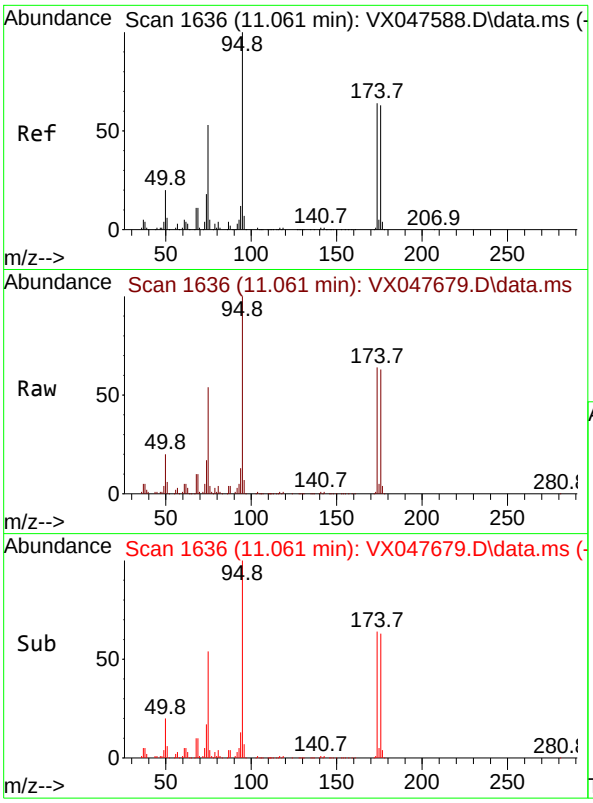


#50
Toluene-d8
Concen: 49.933 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 98 Resp: 382375

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.0	79.4



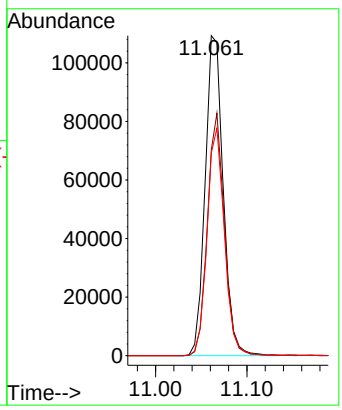


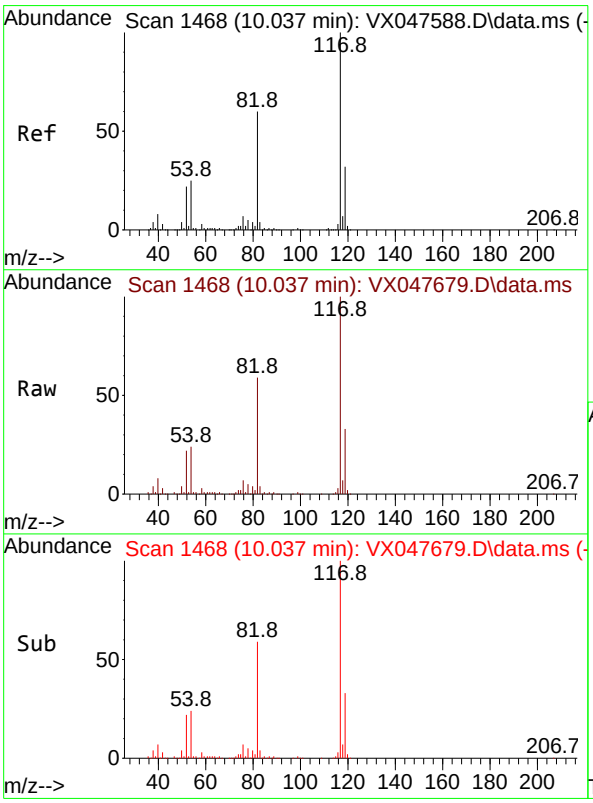
#62
4-Bromofluorobenzene
Concen: 51.465 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Tgt Ion: 95 Resp: 149571

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	68.2	0.0	138.4

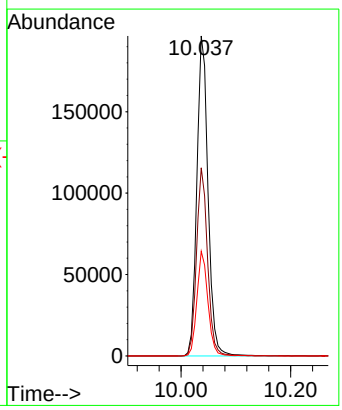


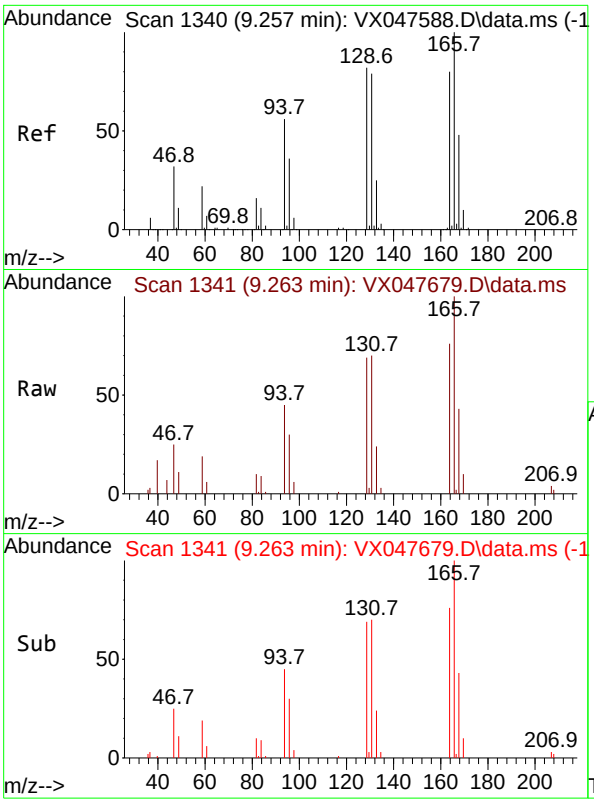


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion:117 Resp: 279542

Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.8	71.6
119	32.7	25.2	37.8



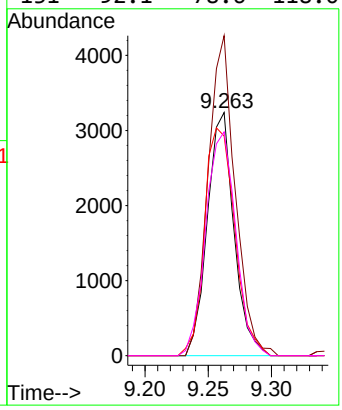


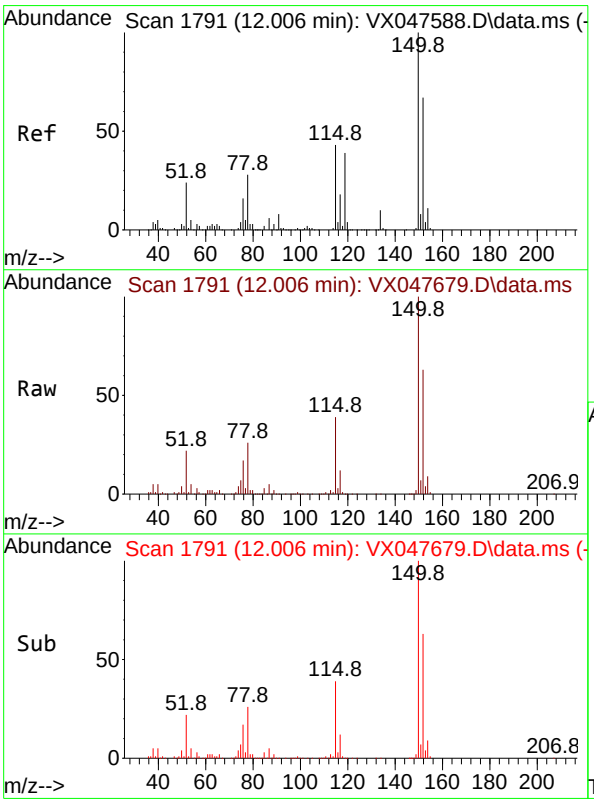
#64
Tetrachloroethene
Concen: 2.603 ug/l
RT: 9.263 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Tgt Ion:164 Resp: 4744

Ion	Ratio	Lower	Upper
164	100		
166	134.2	100.2	150.2
129	90.3	81.8	122.6
131	92.1	78.6	118.0

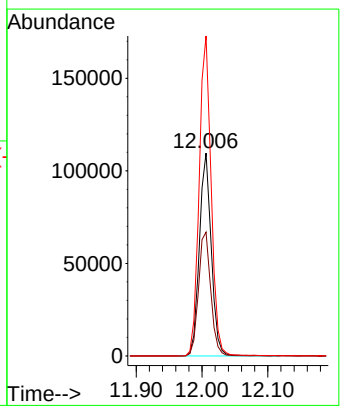




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion:152 Resp: 137704

Ion	Ratio	Lower	Upper
152	100		
115	62.7	44.9	134.5
150	158.8	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-07DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047695.D	20	09/22/25 12:03	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.0	UD	4.40	10.0	20.0	ug/L
74-87-3	Chloromethane	10.0	UD	6.40	10.0	20.0	ug/L
75-01-4	Vinyl Chloride	15.0	UD	5.20	15.0	20.0	ug/L
74-83-9	Bromomethane	75.0	UD	28.8	75.0	100	ug/L
75-00-3	Chloroethane	15.0	UD	9.40	15.0	20.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	UD	6.60	10.0	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	10.0	UD	5.00	10.0	20.0	ug/L
75-35-4	1,1-Dichloroethene	15.0	UD	4.60	15.0	20.0	ug/L
67-64-1	Acetone	75.0	UD	30.2	75.0	100	ug/L
75-15-0	Carbon Disulfide	15.0	UD	4.20	15.0	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	UD	3.20	10.0	20.0	ug/L
79-20-9	Methyl Acetate	15.0	UD	5.40	15.0	20.0	ug/L
75-09-2	Methylene Chloride	10.0	UD	5.60	10.0	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	UD	4.60	10.0	20.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	UD	4.60	10.0	20.0	ug/L
110-82-7	Cyclohexane	50.0	UD	29.0	50.0	100	ug/L
78-93-3	2-Butanone	50.0	UD	19.6	50.0	100	ug/L
56-23-5	Carbon Tetrachloride	10.0	UD	5.00	10.0	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	15.0	UD	3.80	15.0	20.0	ug/L
74-97-5	Bromochloromethane	10.0	UD	4.40	10.0	20.0	ug/L
67-66-3	Chloroform	10.0	UD	5.00	10.0	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	UD	4.00	10.0	20.0	ug/L
108-87-2	Methylcyclohexane	10.0	UD	3.20	10.0	20.0	ug/L
71-43-2	Benzene	10.0	UD	3.00	10.0	20.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	UD	4.40	10.0	20.0	ug/L
79-01-6	Trichloroethene	1200	D	1.90	15.0	20.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	UD	4.00	10.0	20.0	ug/L
75-27-4	Bromodichloromethane	10.0	UD	4.40	10.0	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	UD	13.6	50.0	100	ug/L
108-88-3	Toluene	10.0	UD	2.80	10.0	20.0	ug/L

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-07DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047695.D	20	09/22/25 12:03	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	10.0	UD	3.40	10.0	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	UD	3.20	10.0	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	10.0	UD	4.20	10.0	20.0	ug/L
591-78-6	2-Hexanone	50.0	UD	17.8	50.0	100	ug/L
124-48-1	Dibromochloromethane	10.0	UD	3.60	10.0	20.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	UD	3.00	10.0	20.0	ug/L
127-18-4	Tetrachloroethene	10.0	UD	4.60	10.0	20.0	ug/L
108-90-7	Chlorobenzene	10.0	UD	2.40	10.0	20.0	ug/L
100-41-4	Ethyl Benzene	10.0	UD	2.60	10.0	20.0	ug/L
179601-23-1	m/p-Xylenes	20.0	UD	4.80	20.0	40.0	ug/L
95-47-6	o-Xylene	10.0	UD	2.40	10.0	20.0	ug/L
100-42-5	Styrene	10.0	UD	3.00	10.0	20.0	ug/L
75-25-2	Bromoform	10.0	UD	3.80	10.0	20.0	ug/L
98-82-8	Isopropylbenzene	10.0	UD	2.40	10.0	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	UD	5.20	10.0	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	UD	3.20	10.0	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	UD	3.80	10.0	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	UD	3.20	10.0	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.0	UD	10.6	15.0	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	UD	4.00	10.0	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	15.0	UD	4.00	15.0	20.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.5	*	81 - 118		119%	SPK: 50
1868-53-7	Dibromofluoromethane	58.8		80 - 119		118%	SPK: 50
2037-26-5	Toluene-d8	59.3	*	89 - 112		119%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.9	*	85 - 114		118%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	213000	5.544				
540-36-3	1,4-Difluorobenzene	386000	6.745				
3114-55-4	Chlorobenzene-d5	345000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	169000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-07DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047695.D	20	09/22/25 12:03	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047695.D
Acq On : 22 Sep 2025 12:03
Operator : JC/MD
Sample : Q3097-07DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911DL

Quant Time: Sep 23 01:31:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

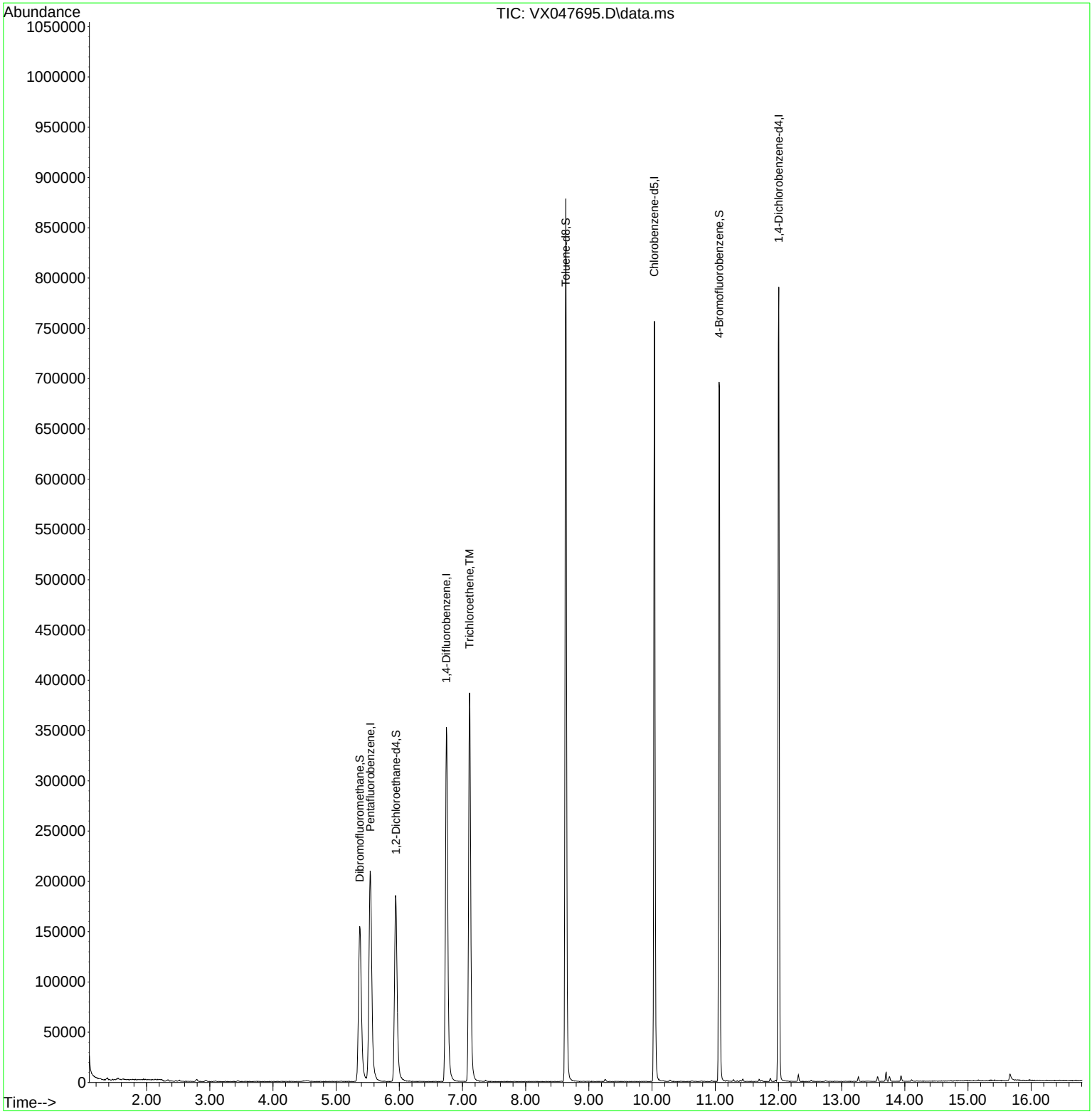
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	212599	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	386271	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	344934	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	168884	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	201290	59.482	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 118.960%#			
35) Dibromofluoromethane	5.373	113	152379	58.821	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 117.640%			
50) Toluene-d8	8.635	98	531722	59.319	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 118.640%#			
62) 4-Bromofluorobenzene	11.061	95	200520	58.943	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 117.880%			
Target Compounds						Qvalue
44) Trichloroethene	7.110	130	164128	59.047	ug/l	97

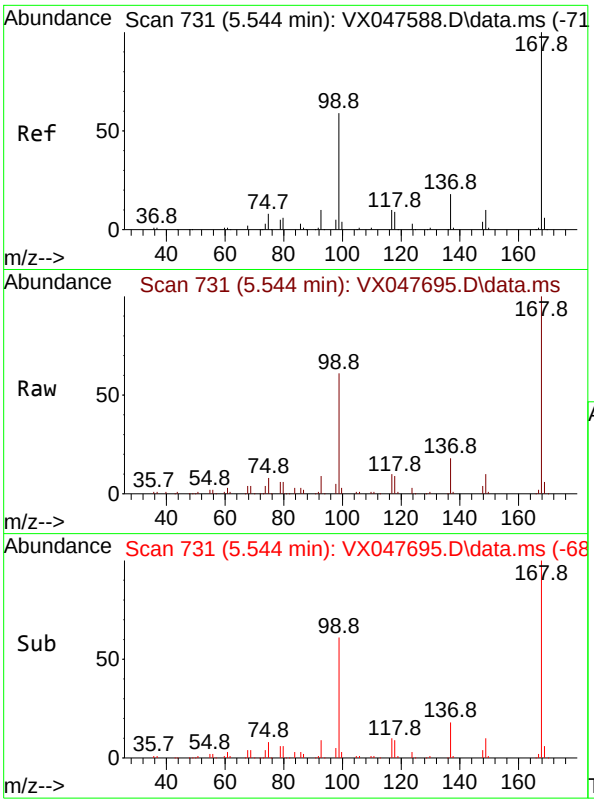
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047695.D
Acq On : 22 Sep 2025 12:03
Operator : JC/MD
Sample : Q3097-07DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911DL

Quant Time: Sep 23 01:31:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



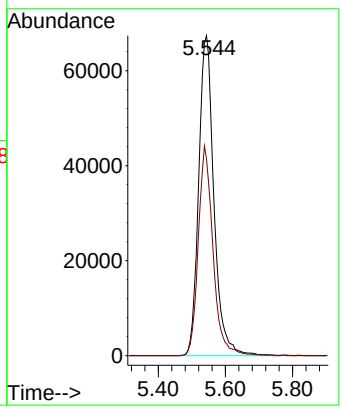


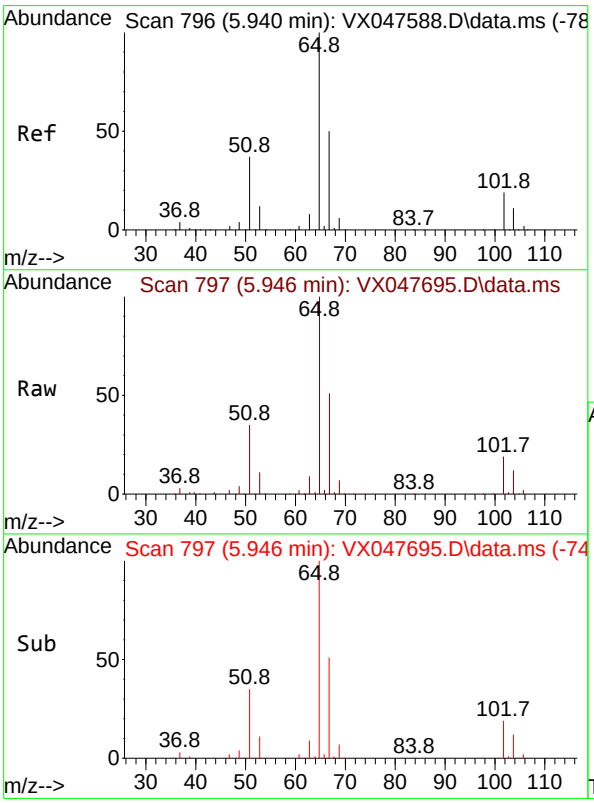
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047695.D
Acq: 22 Sep 2025 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911DL

Tgt Ion:168 Resp: 212599

Ion	Ratio	Lower	Upper
168	100		
99	61.4	48.8	73.2

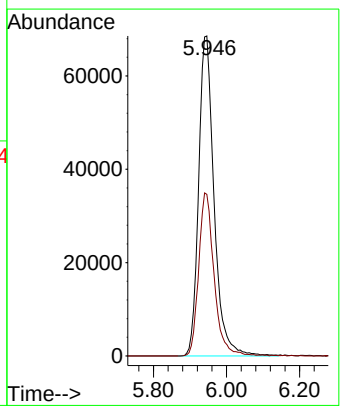


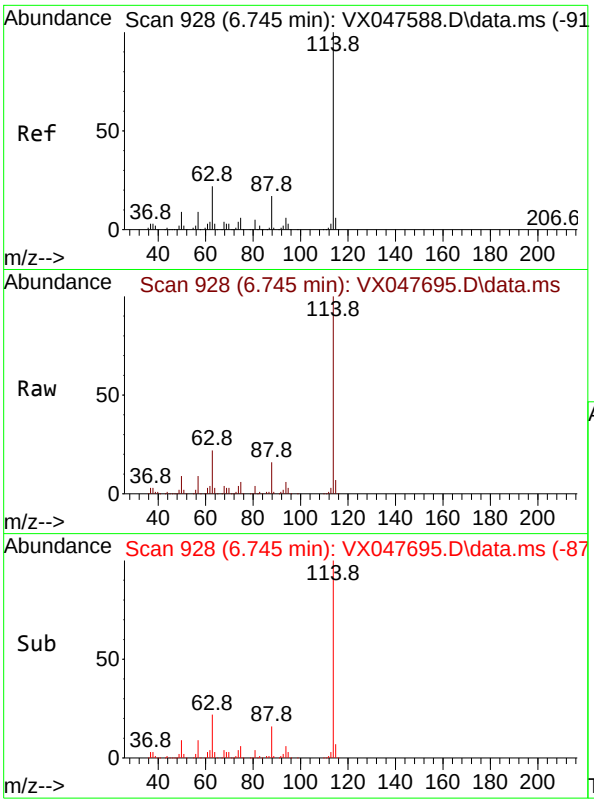


#33
1,2-Dichloroethane-d4
Concen: 59.482 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047695.D
Acq: 22 Sep 2025 12:03

Tgt Ion: 65 Resp: 201290

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	103.0



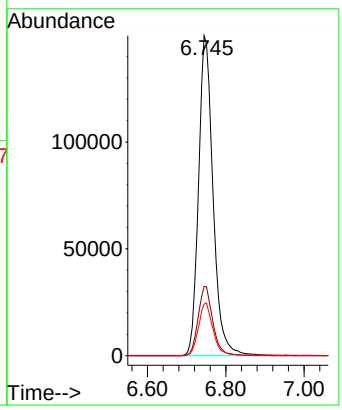


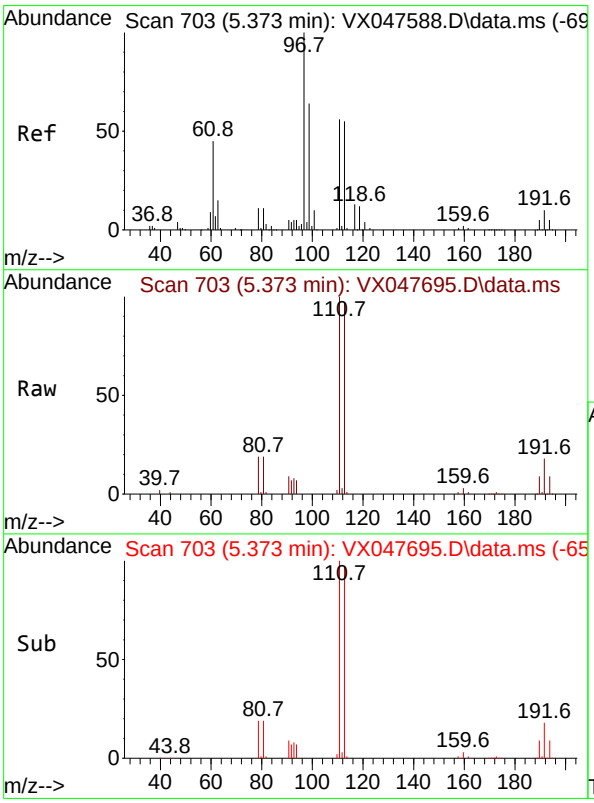
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047695.D
Acq: 22 Sep 2025 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911DL

Tgt Ion:114 Resp: 386271

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	44.0
88	16.2	0.0	34.2

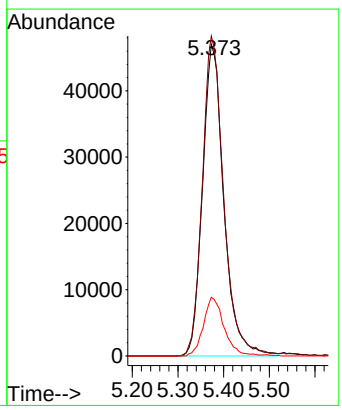


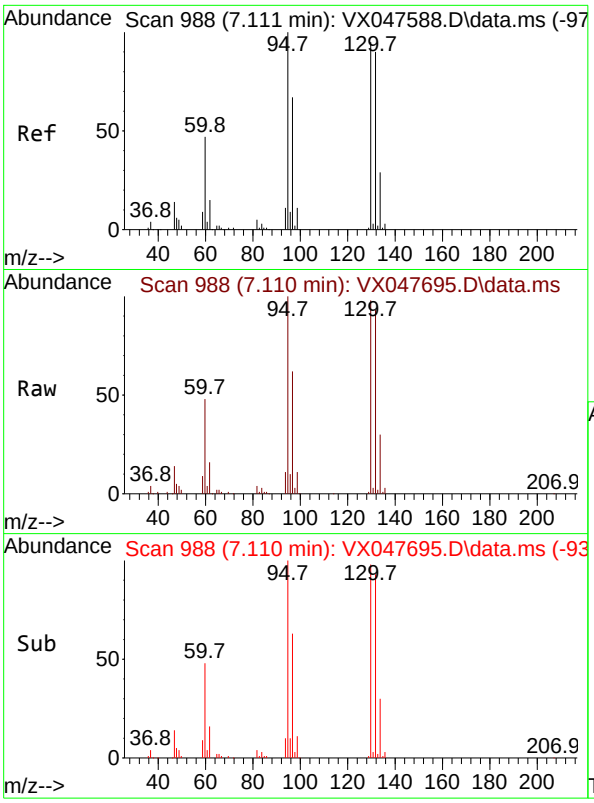


#35
Dibromofluoromethane
Concen: 58.821 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047695.D
Acq: 22 Sep 2025 12:03

Tgt Ion:113 Resp: 152379

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.9	121.3
192	18.2	14.2	21.4



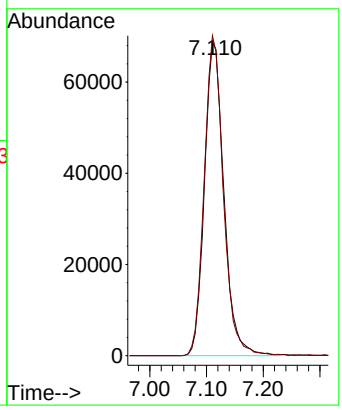


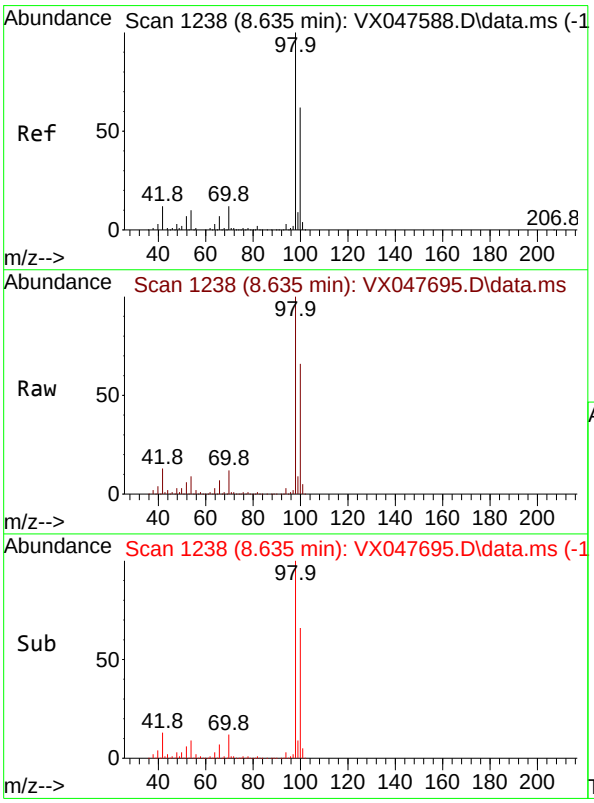
#44
Trichloroethene
Concen: 59.047 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047695.D
Acq: 22 Sep 2025 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911DL

Tgt Ion:130 Resp: 164128

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	210.8

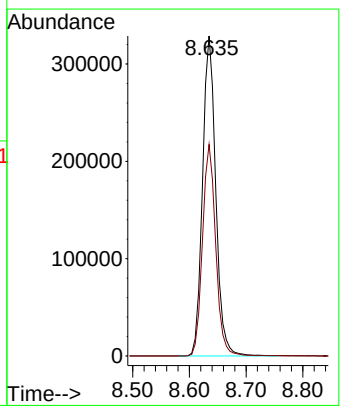


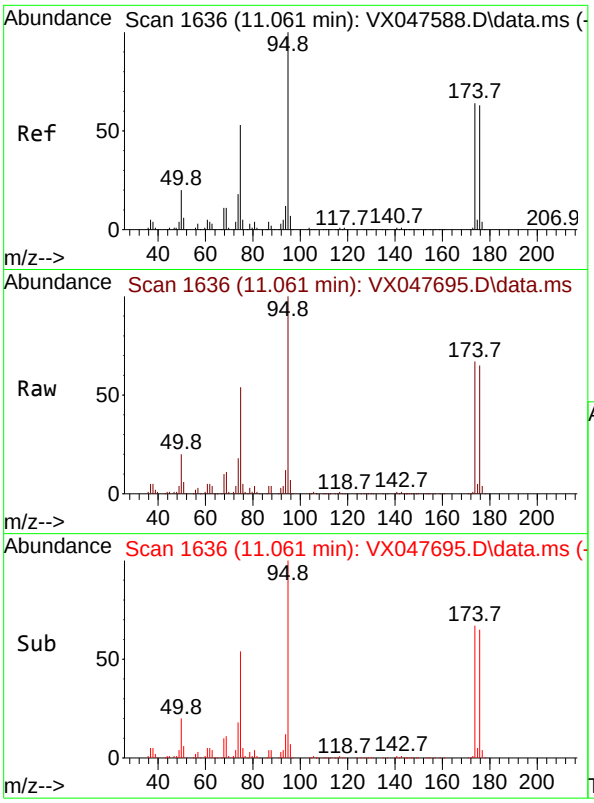


#50
Toluene-d8
Concen: 59.319 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047695.D
Acq: 22 Sep 2025 12:03

Tgt Ion: 98 Resp: 531722

Ion	Ratio	Lower	Upper
98	100		
100	66.0	53.0	79.4



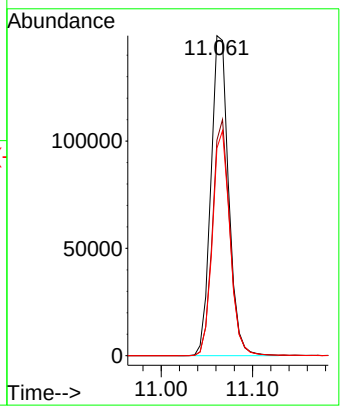


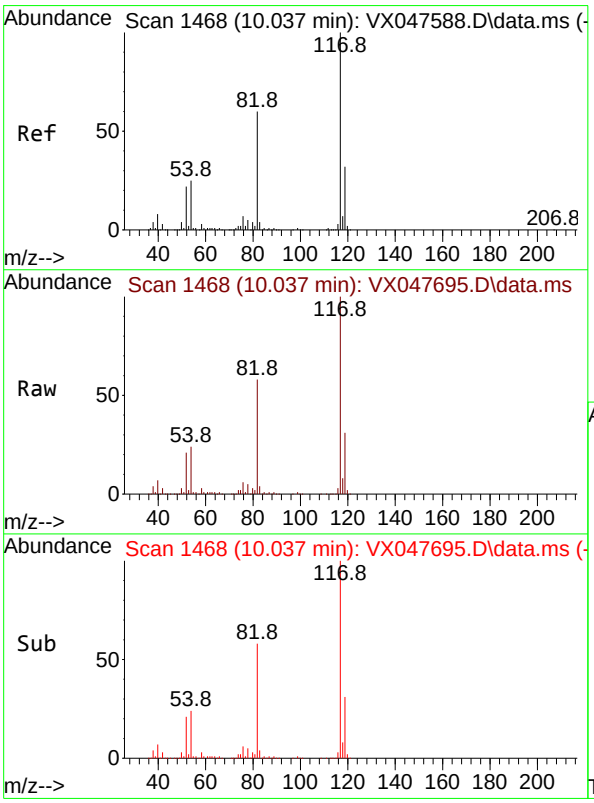
#62
4-Bromofluorobenzene
Concen: 58.943 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047695.D
Acq: 22 Sep 2025 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911DL

Tgt Ion: 95 Resp: 200520

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	141.6
176	69.9	0.0	138.4

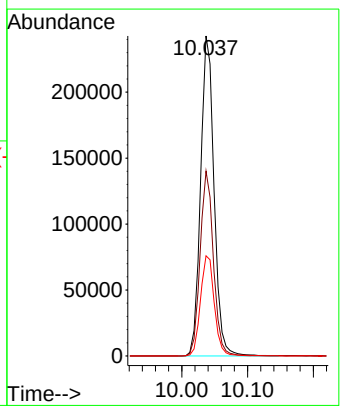


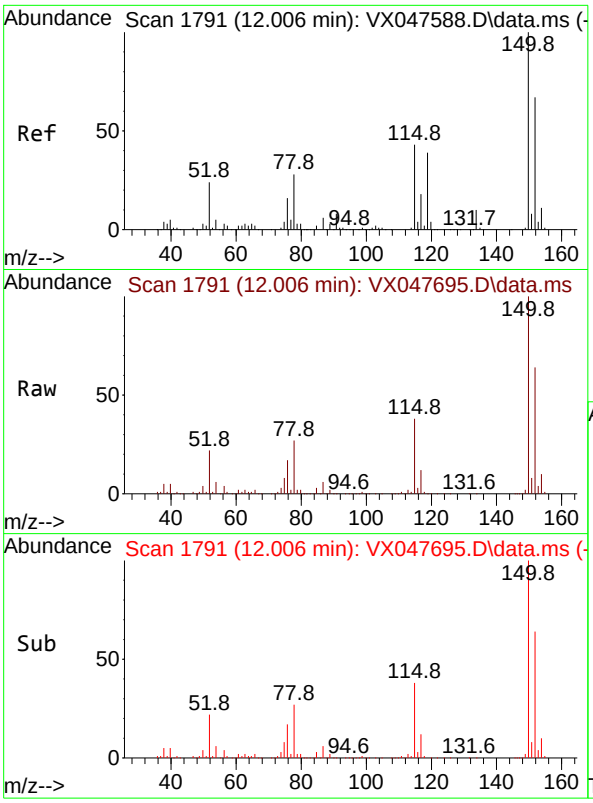


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047695.D
Acq: 22 Sep 2025 12:03

Tgt Ion:117 Resp: 344934

Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.8	71.6
119	31.3	25.2	37.8



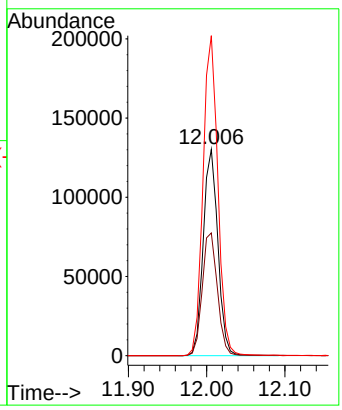


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047695.D
Acq: 22 Sep 2025 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911DL

Tgt Ion:152 Resp: 168884

Ion	Ratio	Lower	Upper
152	100		
115	61.6	44.9	134.5
150	157.0	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047680.D	1	09/19/25 16:38	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	6.90		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	2.10		0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	3.40		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.37	J	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	300	E	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047680.D	1	09/19/25 16:38	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	11.2		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.9		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	48.3		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	177000	5.544				
540-36-3	1,4-Difluorobenzene	328000	6.751				
3114-55-4	Chlorobenzene-d5	295000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	144000	12.006				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047680.D	1	09/19/25 16:38	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047680.D
Acq On : 19 Sep 2025 16:38
Operator : JC/MD
Sample : Q3097-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 20 00:34:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	176923	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	328094	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	294939	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	144012	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	143336	50.898	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.800%			
35) Dibromofluoromethane	5.379	113	108463	49.293	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.580%			
50) Toluene-d8	8.635	98	367967	48.329	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.660%			
62) 4-Bromofluorobenzene	11.061	95	142876	49.446	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.900%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	14050	6.866	ug/l	97
12) 1,1-Dichloroethene	2.325	96	4491	2.137	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	9496	3.426	ug/l	90
30) Chloroform	5.087	83	1654m	0.366	ug/l	
44) Trichloroethene	7.111	130	702899	297.717	ug/l	97
64) Tetrachloroethene	9.263	164	21499	11.182	ug/l	96

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

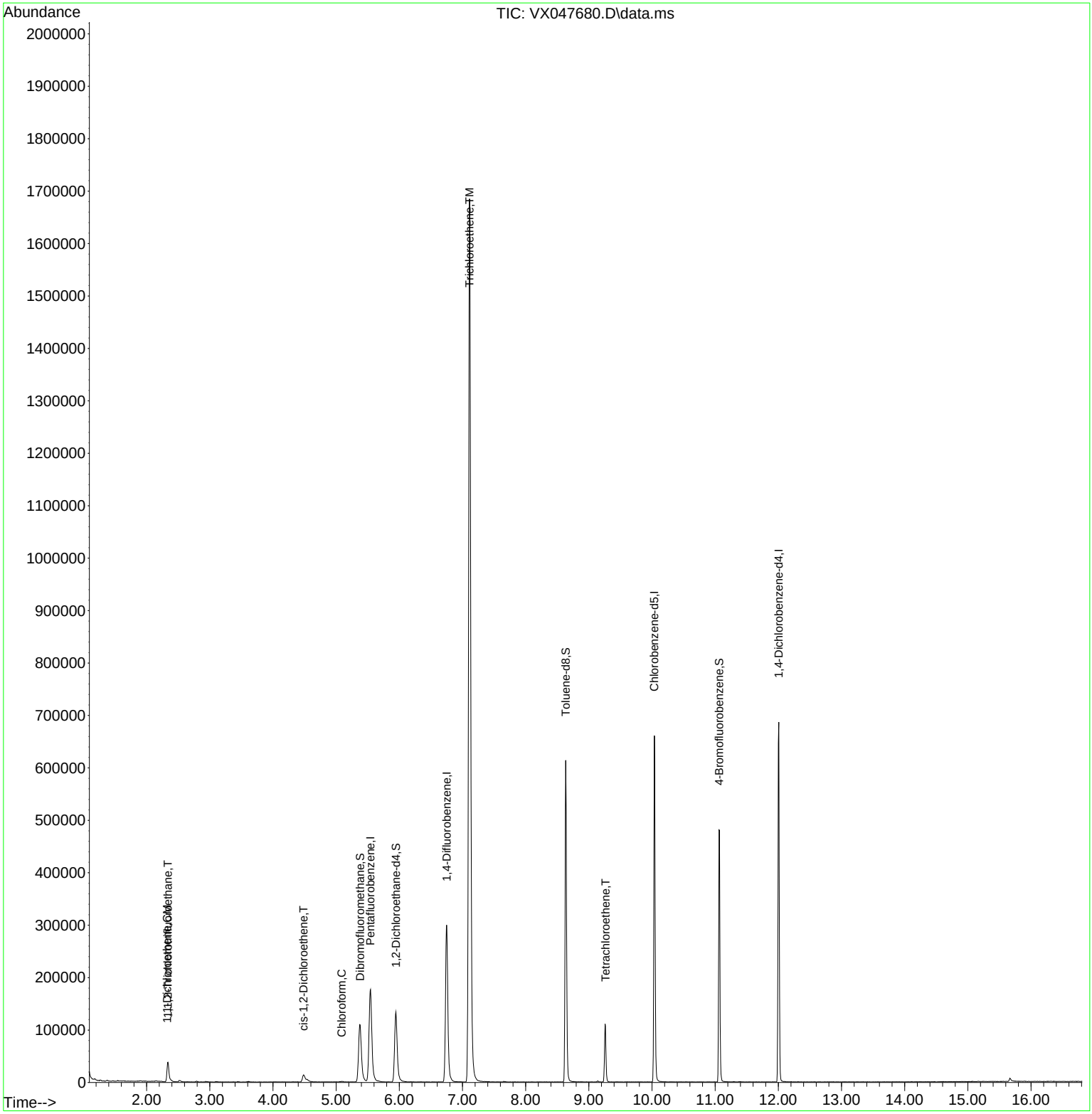
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047680.D
Acq On : 19 Sep 2025 16:38
Operator : JC/MD
Sample : Q3097-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

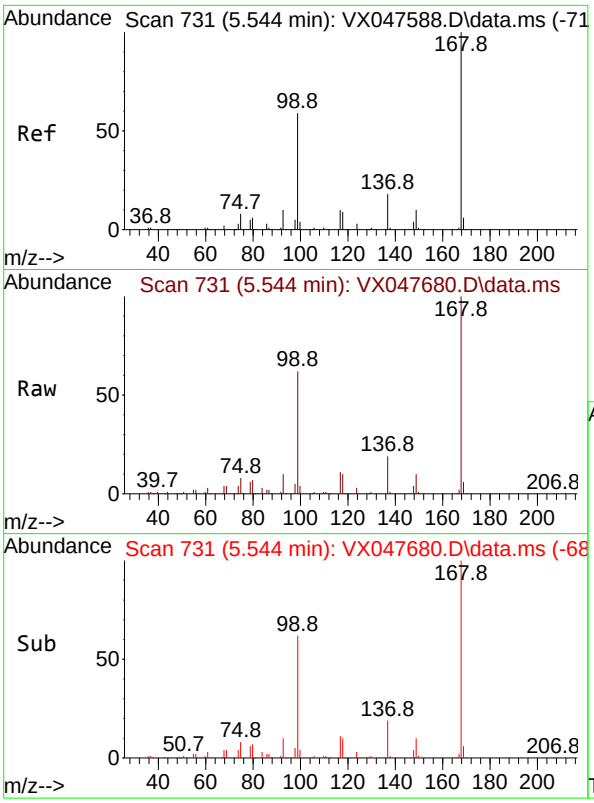
Quant Time: Sep 20 00:34:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

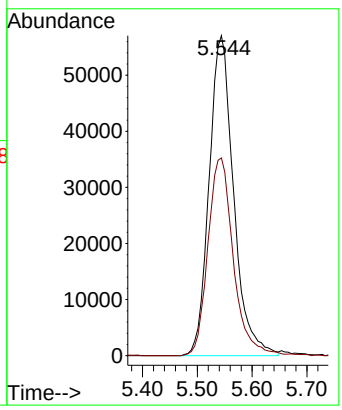
Tgt Ion:168 Resp: 17692

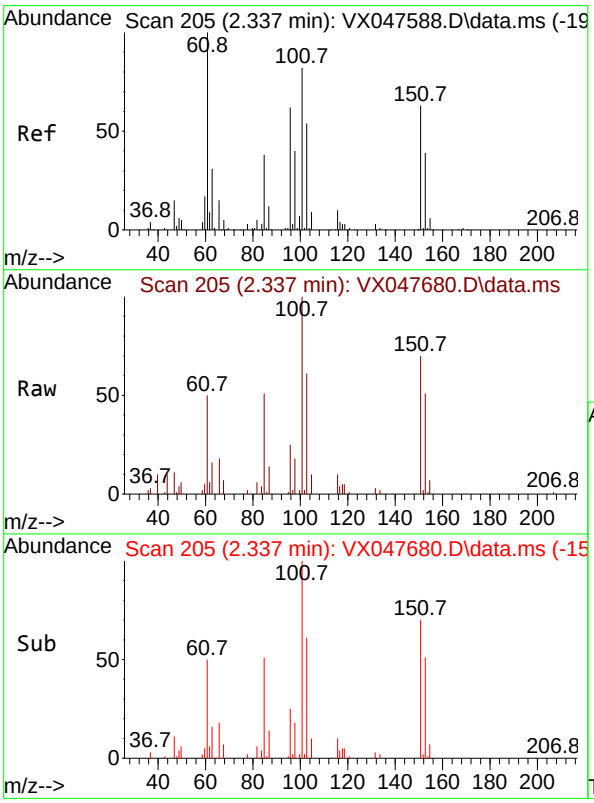
Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

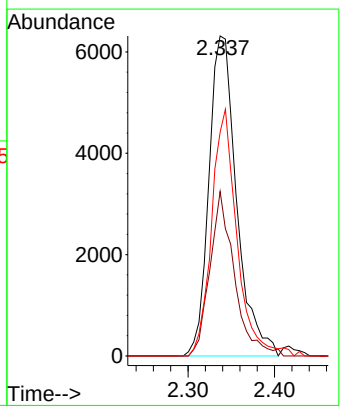


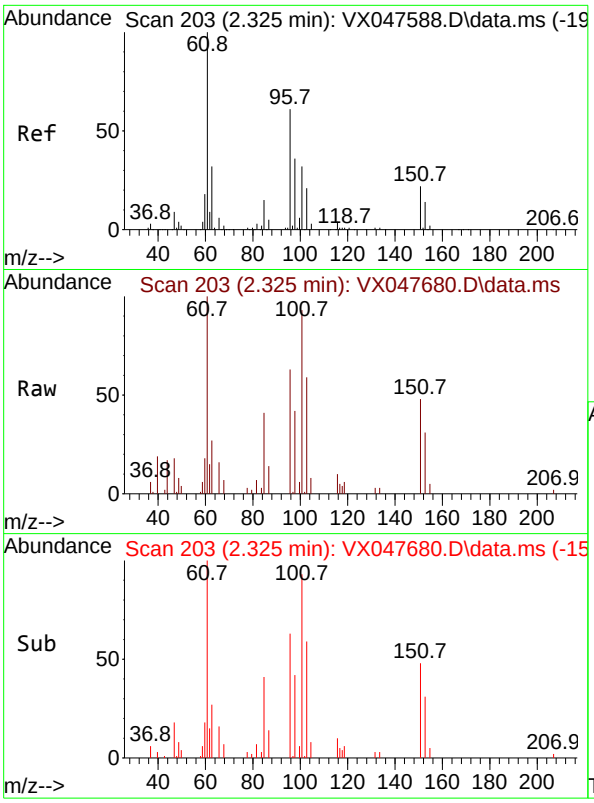


#9
1,1,2-Trichlorotrifluoroethane
Concen: 6.866 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:101 Resp: 14050

Ion	Ratio	Lower	Upper
101	100		
85	45.4	35.5	53.3
151	70.8	59.4	89.0

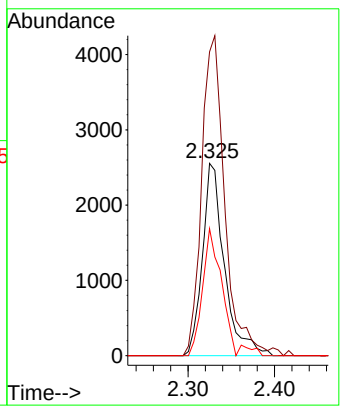




#12
1,1-Dichloroethene
Concen: 2.137 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 96 Resp: 449

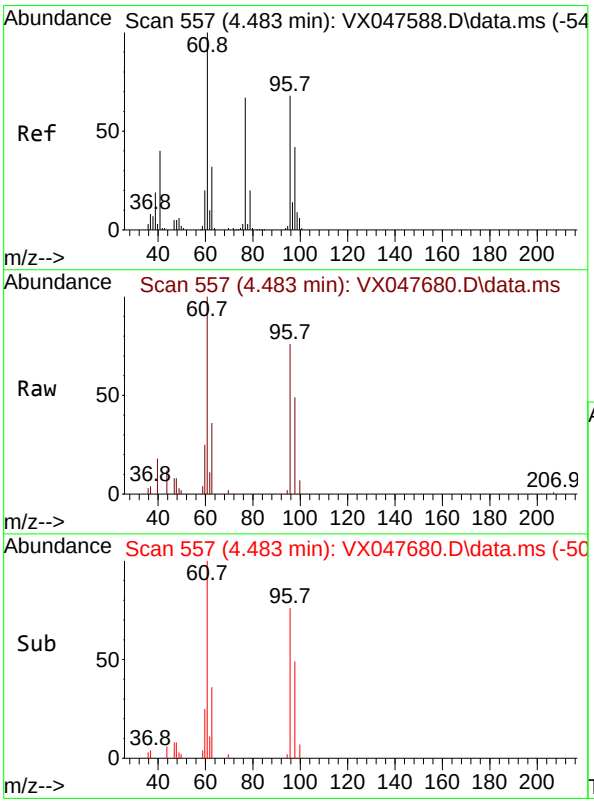
Ion	Ratio	Lower	Upper
96	100		
61	158.0	131.0	196.6
98	66.0	47.7	71.5



Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Manual Integrations
APPROVED

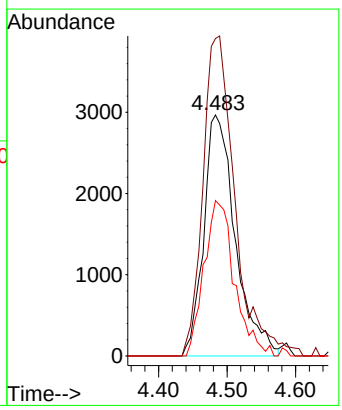
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

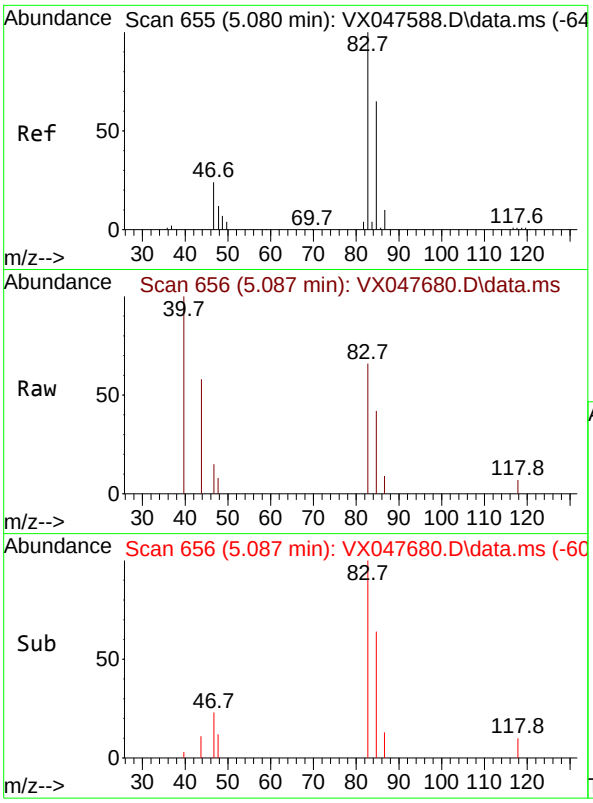


#27
cis-1,2-Dichloroethene
Concen: 3.426 ug/l
RT: 4.483 min Scan# 557
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 96 Resp: 9496

Ion	Ratio	Lower	Upper
96	100		
61	135.0	0.0	303.2
98	62.1	0.0	127.8

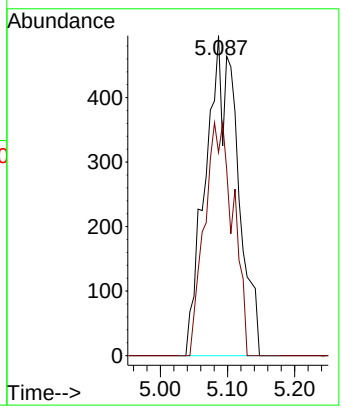




#30
Chloroform
Concen: 0.366 ug/l m
RT: 5.087 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 83 Resp: 165

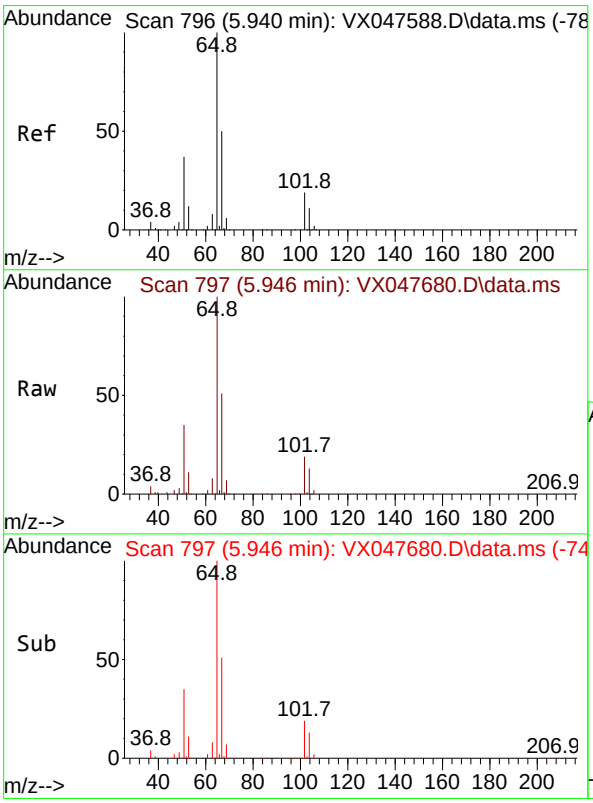
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6



Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Manual Integrations
APPROVED

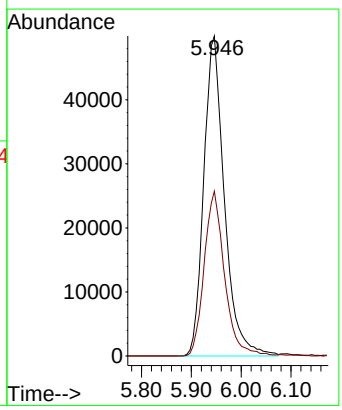
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

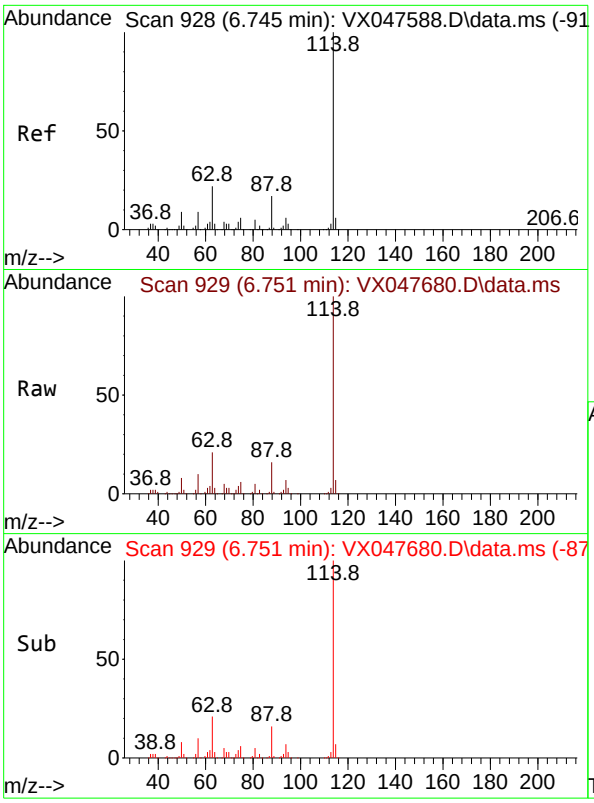


#33
1,2-Dichloroethane-d4
Concen: 50.898 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 65 Resp: 143336

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	103.0

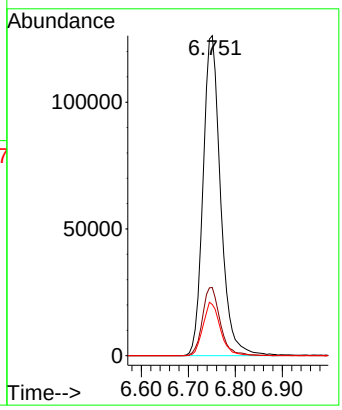




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:114 Resp: 32809

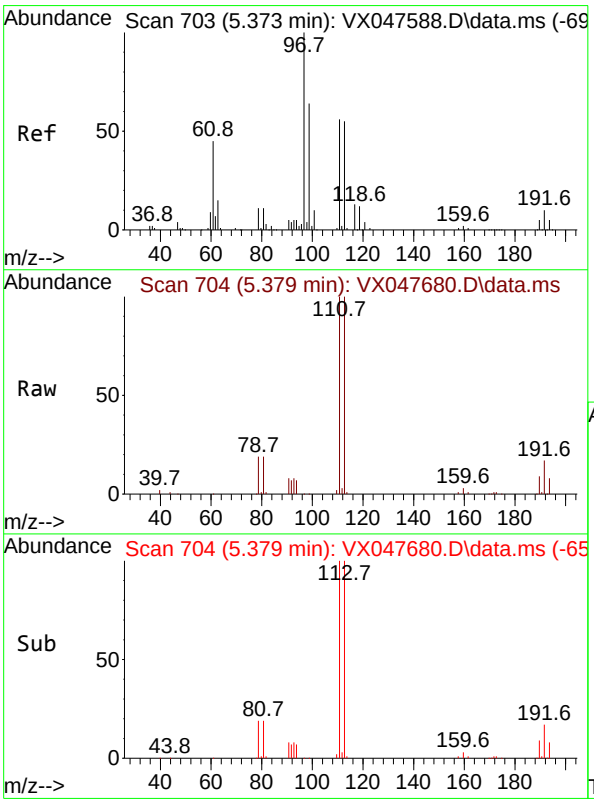
Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.0
88	16.0	0.0	34.2



Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Manual Integrations
APPROVED

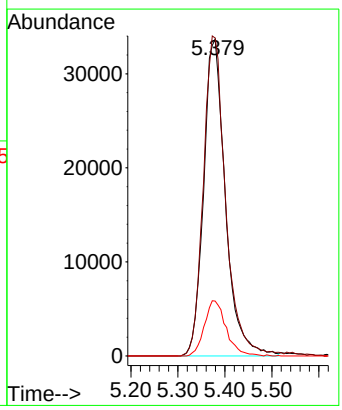
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

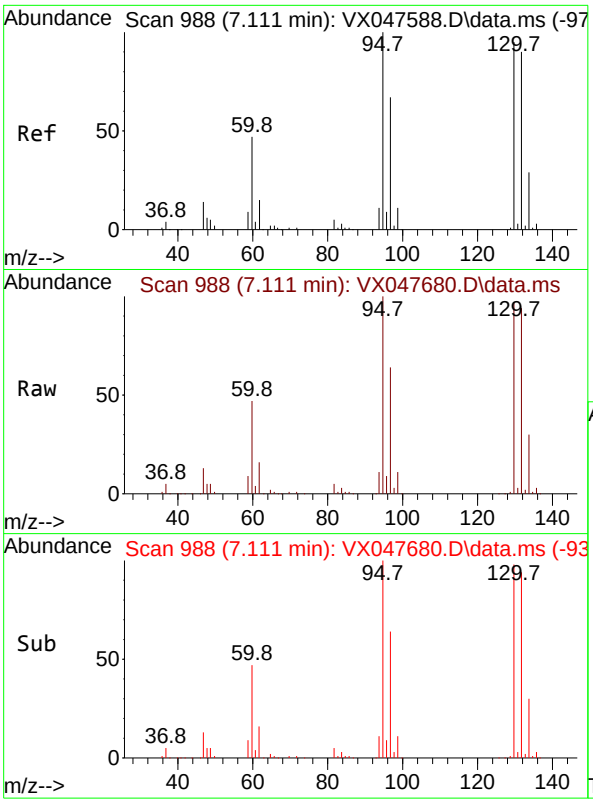


#35
Dibromofluoromethane
Concen: 49.293 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:113 Resp: 108463

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.9	121.3
192	17.4	14.2	21.4





#44
Trichloroethene
Concen: 297.717 ug/l
RT: 7.111 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

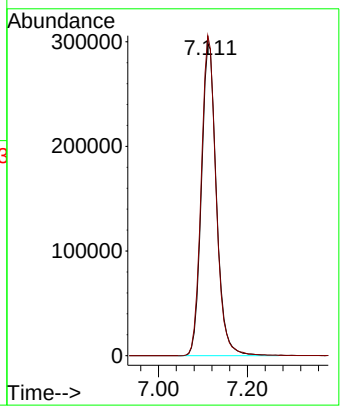
Tgt Ion:130 Resp: 70289

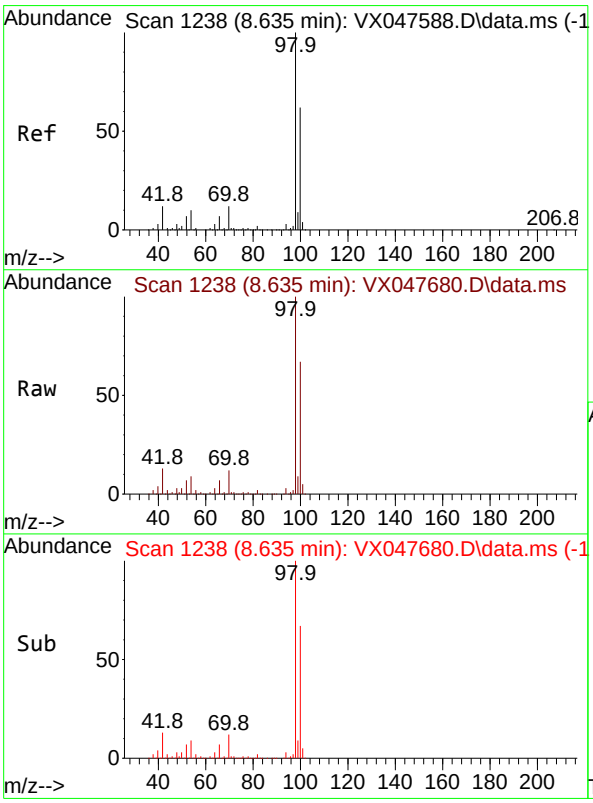
Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	210.8

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

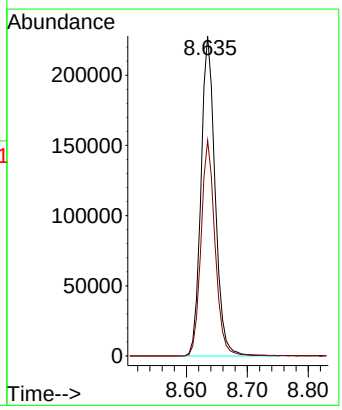


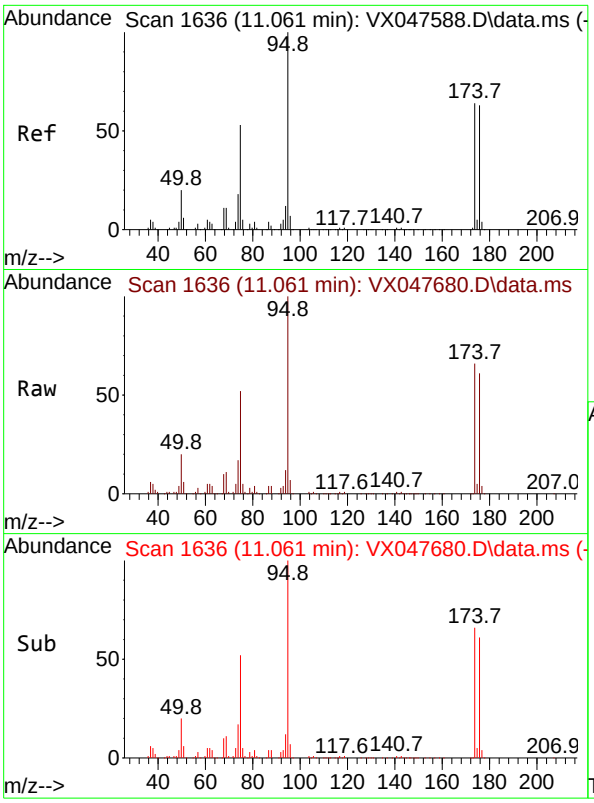


#50
Toluene-d8
Concen: 48.329 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 98 Resp: 367967

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4

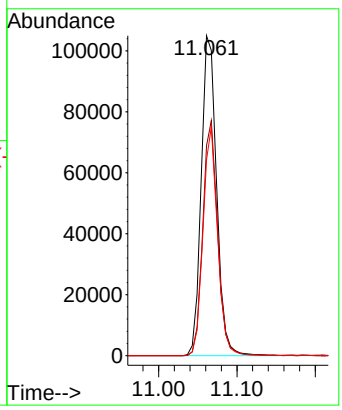




#62
4-Bromofluorobenzene
Concen: 49.446 ug/l
RT: 11.061 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 95 Resp: 14287(

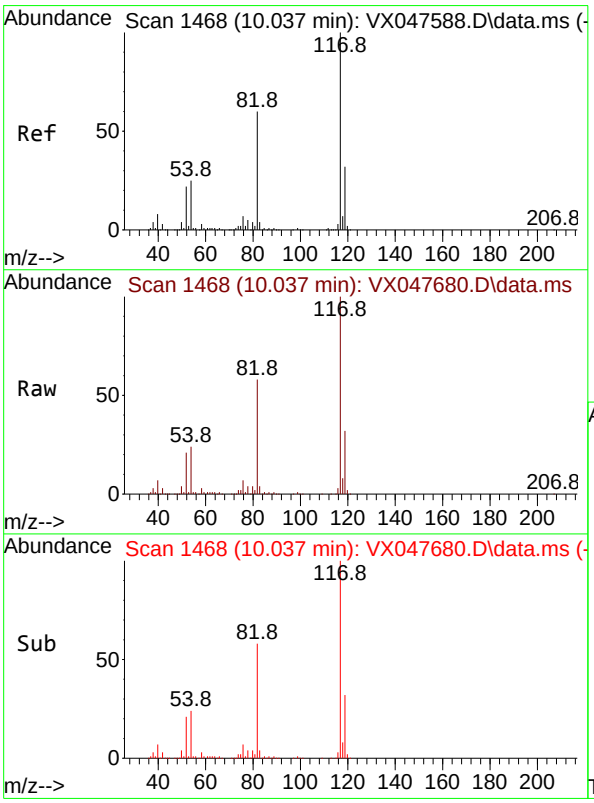
Ion	Ratio	Lower	Upper
95	100		
174	71.0	0.0	141.6
176	67.7	0.0	138.4



Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Manual Integrations
APPROVED

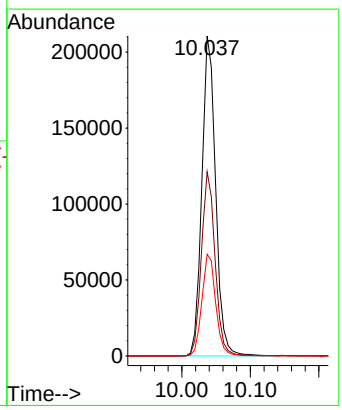
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

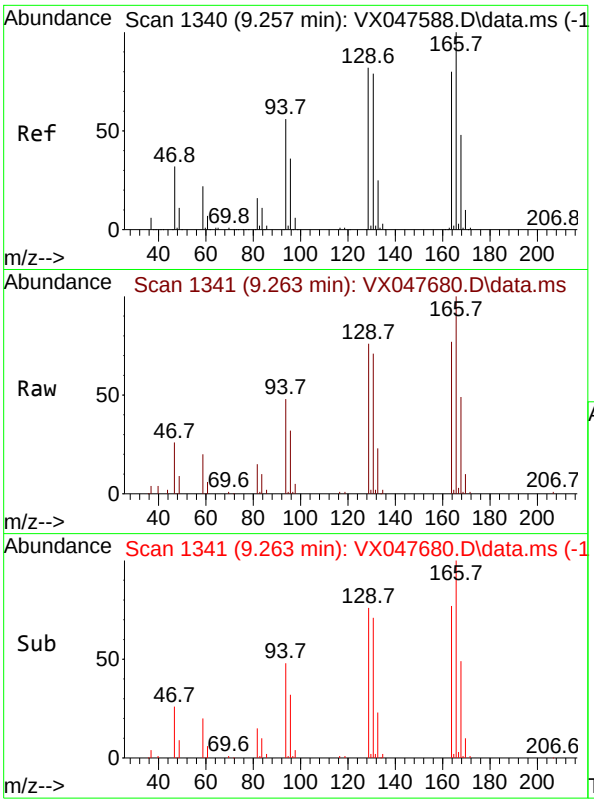


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:117 Resp: 294939

Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.8	71.6
119	31.8	25.2	37.8

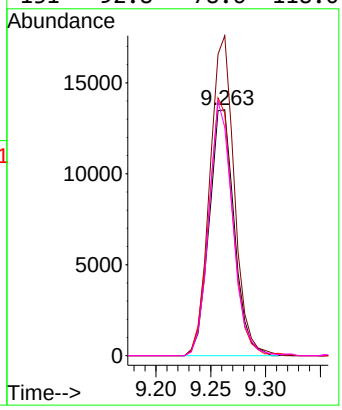




#64
Tetrachloroethene
Concen: 11.182 ug/l
RT: 9.263 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:164 Resp: 2149

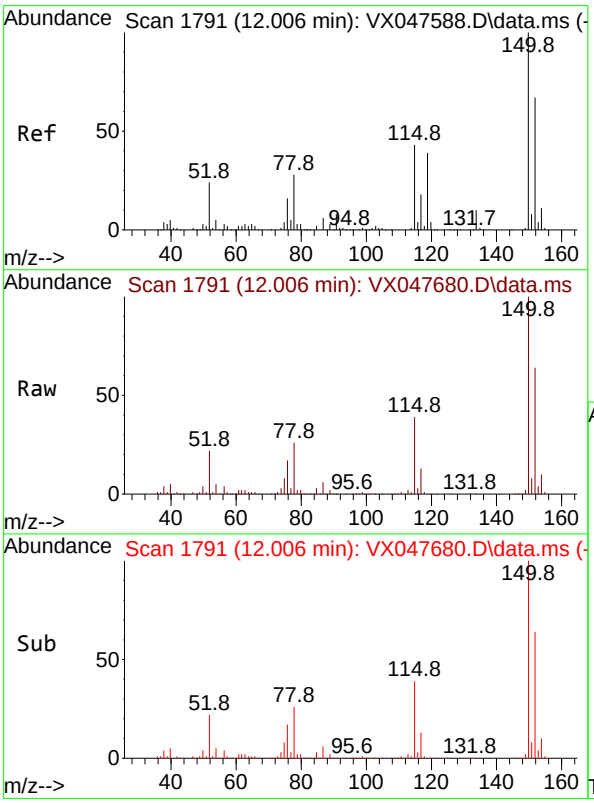
Ion	Ratio	Lower	Upper
164	100		
166	130.1	100.2	150.2
129	98.6	81.8	122.6
131	92.8	78.6	118.0



Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Manual Integrations
APPROVED

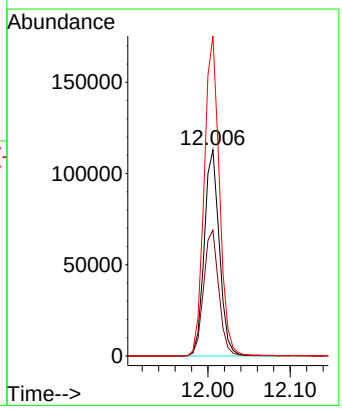
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:152 Resp: 144012

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.9	134.5
150	156.7	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-08DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047693.D	5	09/22/25 11:21	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.50	UD	1.10	2.50	5.00	ug/L
74-87-3	Chloromethane	2.50	UD	1.60	2.50	5.00	ug/L
75-01-4	Vinyl Chloride	3.80	UD	1.30	3.80	5.00	ug/L
74-83-9	Bromomethane	18.8	UD	7.20	18.8	25.0	ug/L
75-00-3	Chloroethane	3.80	UD	2.40	3.80	5.00	ug/L
75-69-4	Trichlorofluoromethane	2.50	UD	1.70	2.50	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	6.20	D	1.30	2.50	5.00	ug/L
75-35-4	1,1-Dichloroethene	3.80	UD	1.20	3.80	5.00	ug/L
67-64-1	Acetone	18.8	UD	7.60	18.8	25.0	ug/L
75-15-0	Carbon Disulfide	3.80	UD	1.10	3.80	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	2.50	UD	0.80	2.50	5.00	ug/L
79-20-9	Methyl Acetate	3.80	UD	1.40	3.80	5.00	ug/L
75-09-2	Methylene Chloride	2.50	UD	1.40	2.50	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	2.50	UD	1.20	2.50	5.00	ug/L
75-34-3	1,1-Dichloroethane	2.50	UD	1.20	2.50	5.00	ug/L
110-82-7	Cyclohexane	12.5	UD	7.30	12.5	25.0	ug/L
78-93-3	2-Butanone	12.5	UD	4.90	12.5	25.0	ug/L
56-23-5	Carbon Tetrachloride	2.50	UD	1.30	2.50	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	3.80	UD	0.95	3.80	5.00	ug/L
74-97-5	Bromochloromethane	2.50	UD	1.10	2.50	5.00	ug/L
67-66-3	Chloroform	2.50	UD	1.30	2.50	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	2.50	UD	1.00	2.50	5.00	ug/L
108-87-2	Methylcyclohexane	2.50	UD	0.80	2.50	5.00	ug/L
71-43-2	Benzene	2.50	UD	0.75	2.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	2.50	UD	1.10	2.50	5.00	ug/L
79-01-6	Trichloroethene	270	D	0.47	3.80	5.00	ug/L
78-87-5	1,2-Dichloropropane	2.50	UD	1.00	2.50	5.00	ug/L
75-27-4	Bromodichloromethane	2.50	UD	1.10	2.50	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	12.5	UD	3.40	12.5	25.0	ug/L
108-88-3	Toluene	2.50	UD	0.70	2.50	5.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-08DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047693.D	5	09/22/25 11:21	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.50	UD	0.85	2.50	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	2.50	UD	0.80	2.50	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	2.50	UD	1.10	2.50	5.00	ug/L
591-78-6	2-Hexanone	12.5	UD	4.50	12.5	25.0	ug/L
124-48-1	Dibromochloromethane	2.50	UD	0.90	2.50	5.00	ug/L
106-93-4	1,2-Dibromoethane	2.50	UD	0.75	2.50	5.00	ug/L
127-18-4	Tetrachloroethene	10.7	D	1.20	2.50	5.00	ug/L
108-90-7	Chlorobenzene	2.50	UD	0.60	2.50	5.00	ug/L
100-41-4	Ethyl Benzene	2.50	UD	0.65	2.50	5.00	ug/L
179601-23-1	m/p-Xylenes	5.00	UD	1.20	5.00	10.0	ug/L
95-47-6	o-Xylene	2.50	UD	0.60	2.50	5.00	ug/L
100-42-5	Styrene	2.50	UD	0.75	2.50	5.00	ug/L
75-25-2	Bromoform	2.50	UD	0.95	2.50	5.00	ug/L
98-82-8	Isopropylbenzene	2.50	UD	0.60	2.50	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.50	UD	1.30	2.50	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	2.50	UD	0.80	2.50	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	2.50	UD	0.95	2.50	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	2.50	UD	0.80	2.50	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.80	UD	2.70	3.80	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	2.50	UD	1.00	2.50	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	3.80	UD	1.00	3.80	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.2		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	52.6		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	210000	5.538				
540-36-3	1,4-Difluorobenzene	374000	6.745				
3114-55-4	Chlorobenzene-d5	336000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	164000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE125D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-08DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047693.D	5	09/22/25 11:21	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047693.D
Acq On : 22 Sep 2025 11:21
Operator : JC/MD
Sample : Q3097-08DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911DL

Quant Time: Sep 23 01:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

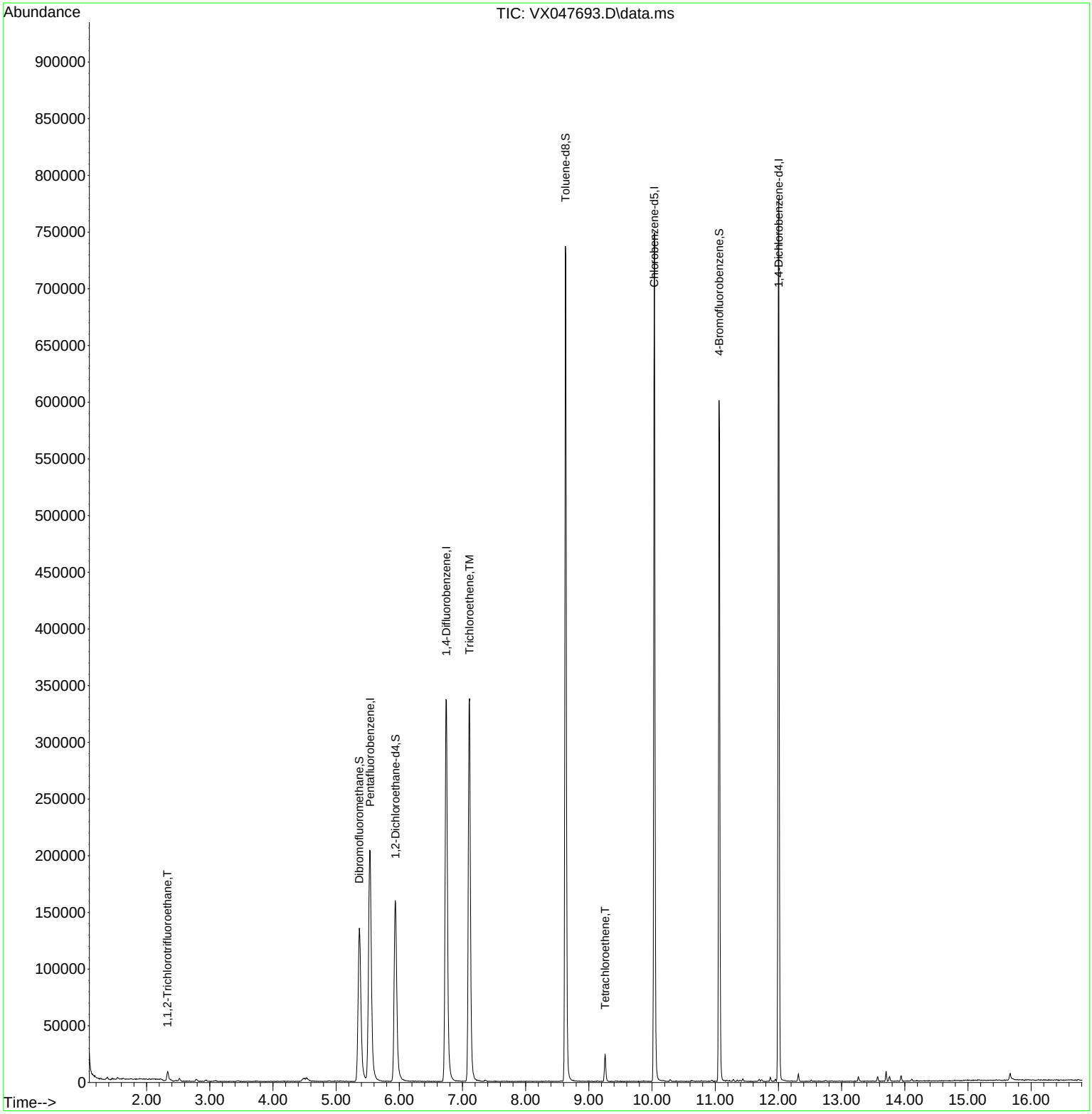
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	210054	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	374235	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	336300	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	163574	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	174560	52.208	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.420%			
35) Dibromofluoromethane	5.367	113	131212	52.279	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.560%			
50) Toluene-d8	8.629	98	457155	52.640	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 105.280%			
62) 4-Bromofluorobenzene	11.061	95	174373	52.906	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.820%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.331	101	3008	1.238	ug/l	95
44) Trichloroethene	7.110	130	144794	53.767	ug/l	95
64) Tetrachloroethene	9.256	164	4669	2.130	ug/l	97

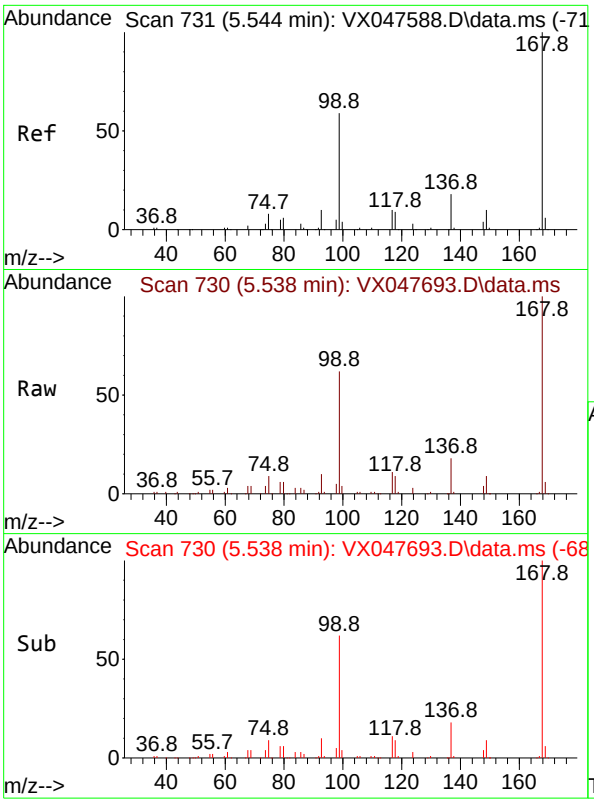
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047693.D
Acq On : 22 Sep 2025 11:21
Operator : JC/MD
Sample : Q3097-08DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911DL

Quant Time: Sep 23 01:30:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



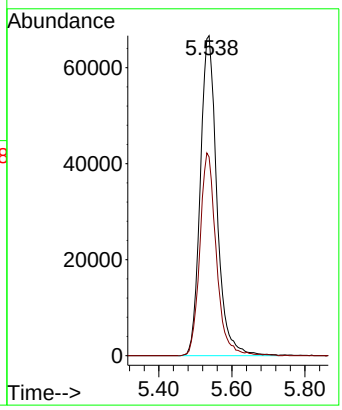


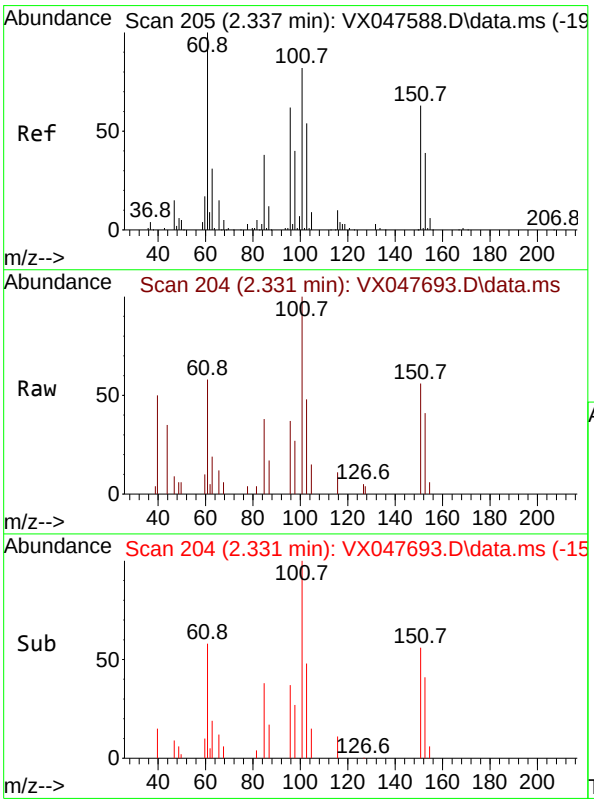
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:168 Resp: 210054

Ion	Ratio	Lower	Upper
168	100		
99	62.1	48.8	73.2

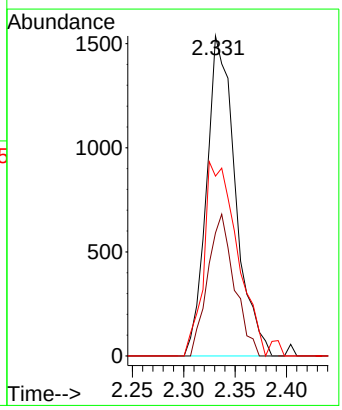


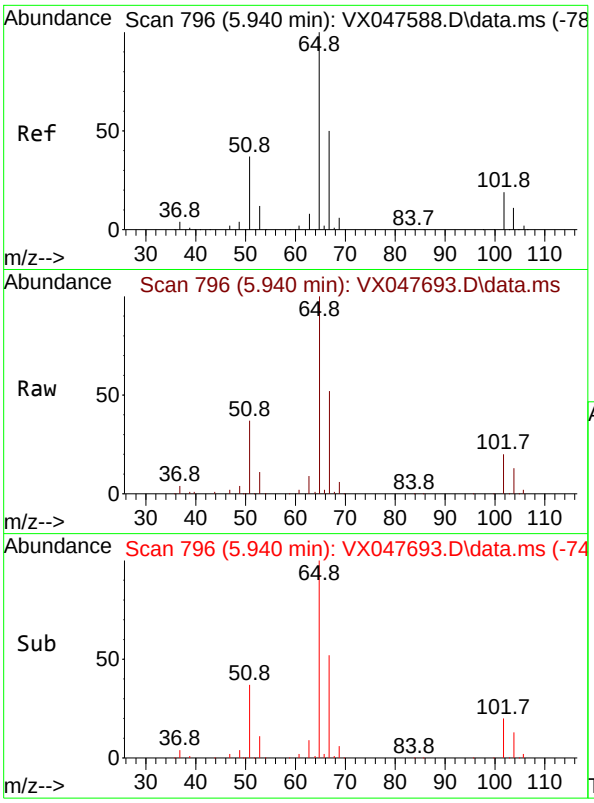


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.238 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Tgt Ion:101 Resp: 3008

Ion	Ratio	Lower	Upper
101	100		
85	40.9	35.5	53.3
151	70.0	59.4	89.0



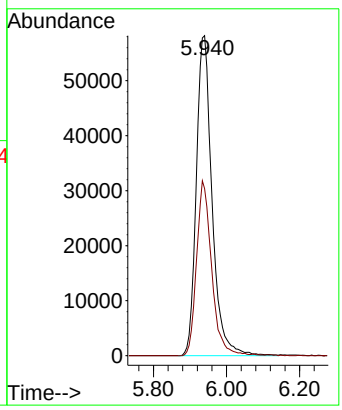


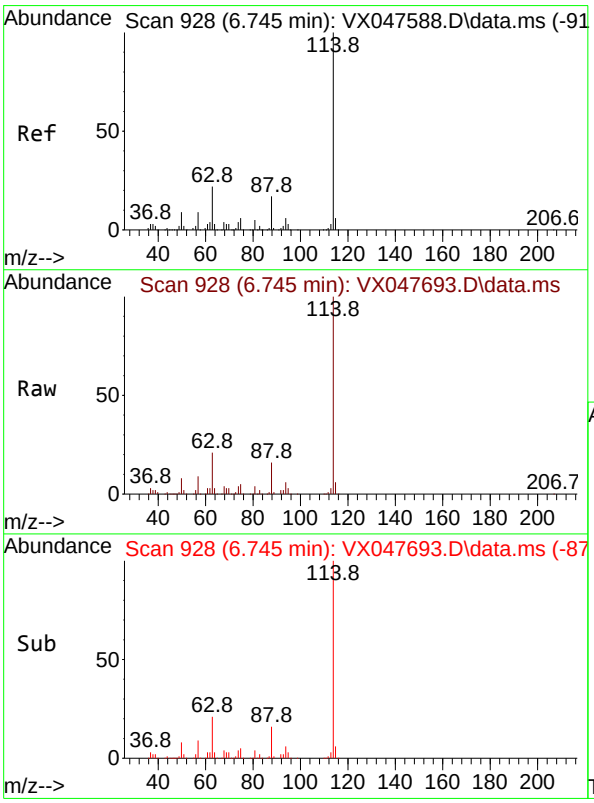
#33
1,2-Dichloroethane-d4
Concen: 52.208 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911DL

Tgt Ion: 65 Resp: 174560

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0

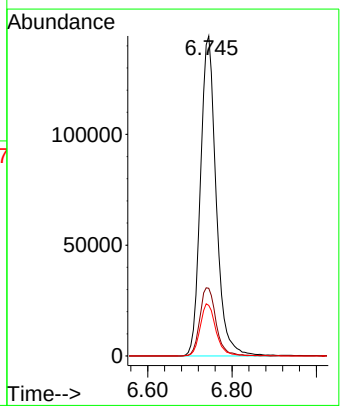


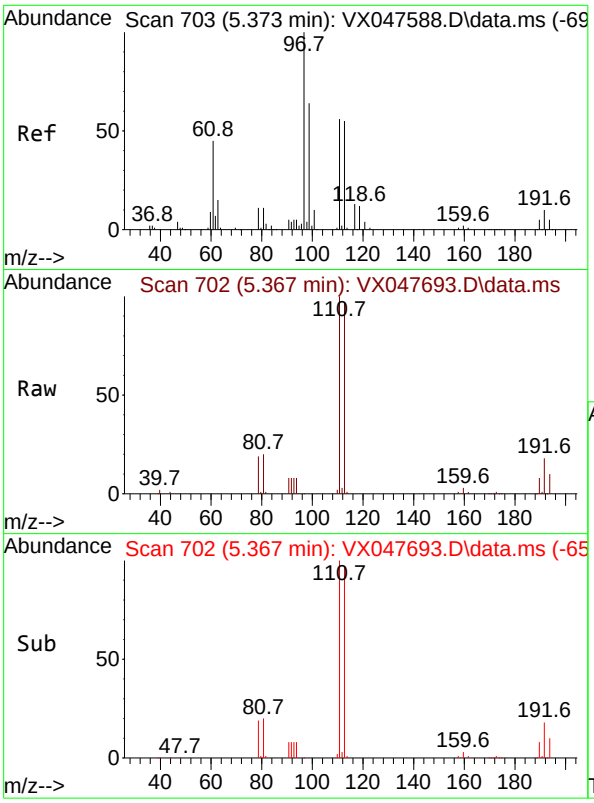


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Tgt Ion:114 Resp: 374235

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	44.0
88	15.8	0.0	34.2



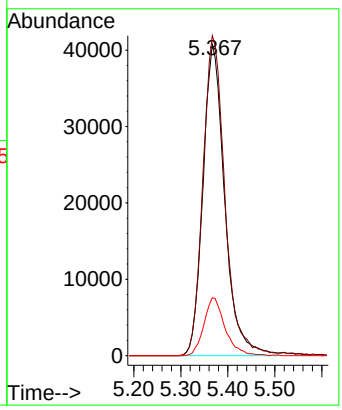


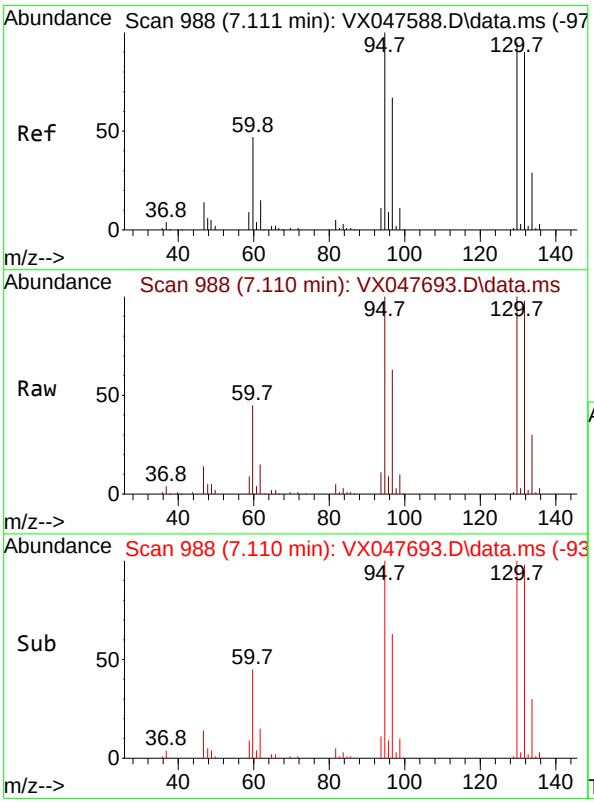
#35
Dibromofluoromethane
Concen: 52.279 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:113 Resp: 131212

Ion	Ratio	Lower	Upper
113	100		
111	104.0	80.9	121.3
192	18.1	14.2	21.4

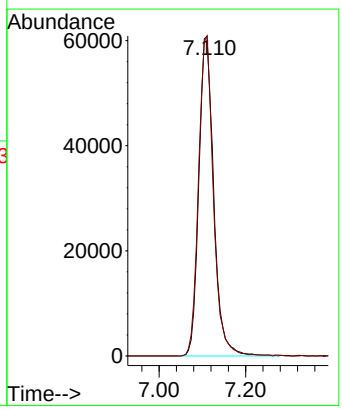


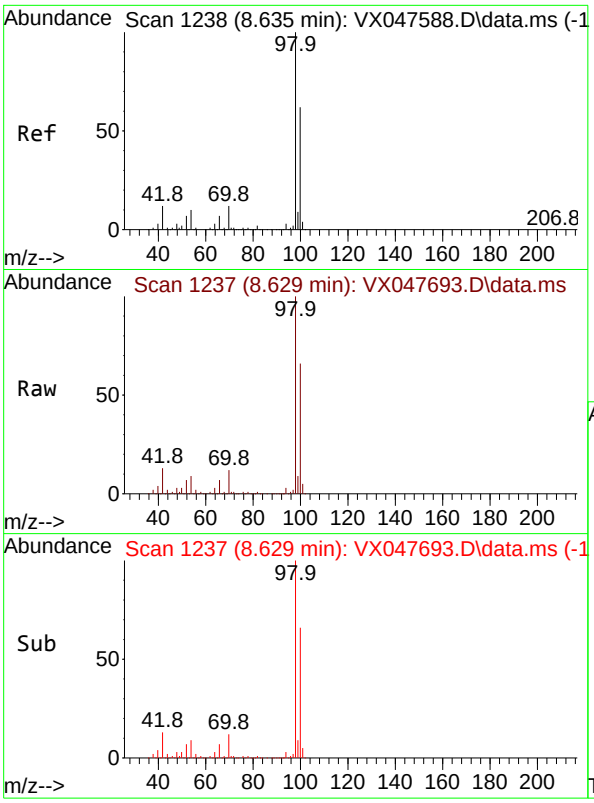


#44
Trichloroethene
Concen: 53.767 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Tgt Ion:130 Resp: 144794

Ion	Ratio	Lower	Upper
130	100		
95	100.1	0.0	210.8



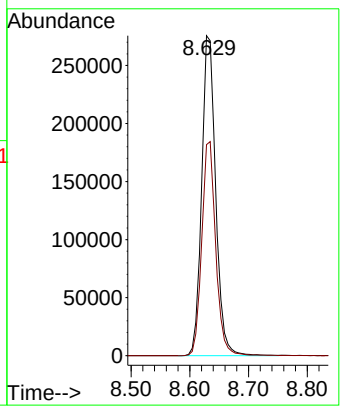


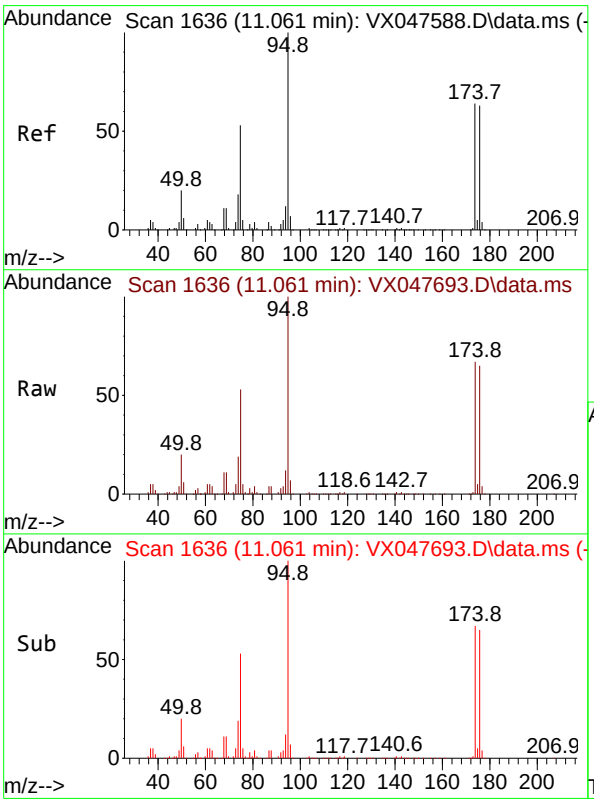
#50
Toluene-d8
Concen: 52.640 ug/l
RT: 8.629 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911DL

Tgt Ion: 98 Resp: 457155

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.0	79.4

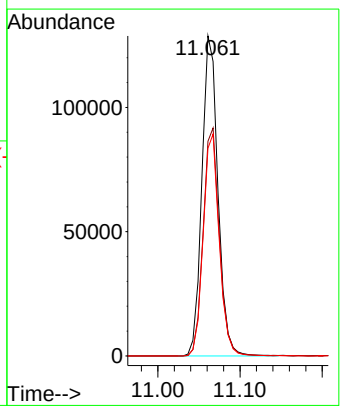


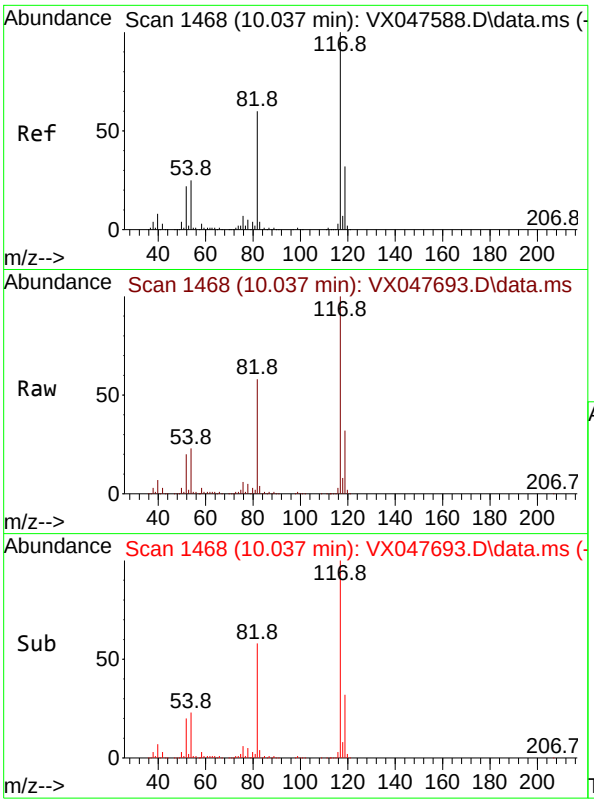


#62
4-Bromofluorobenzene
Concen: 52.906 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Tgt Ion: 95 Resp: 174373

Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	141.6
176	69.2	0.0	138.4



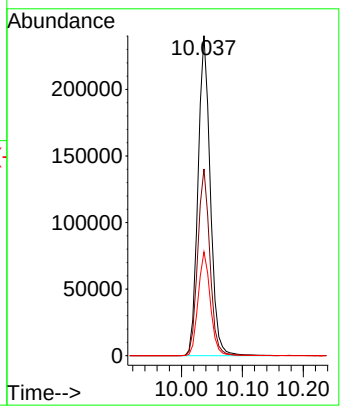


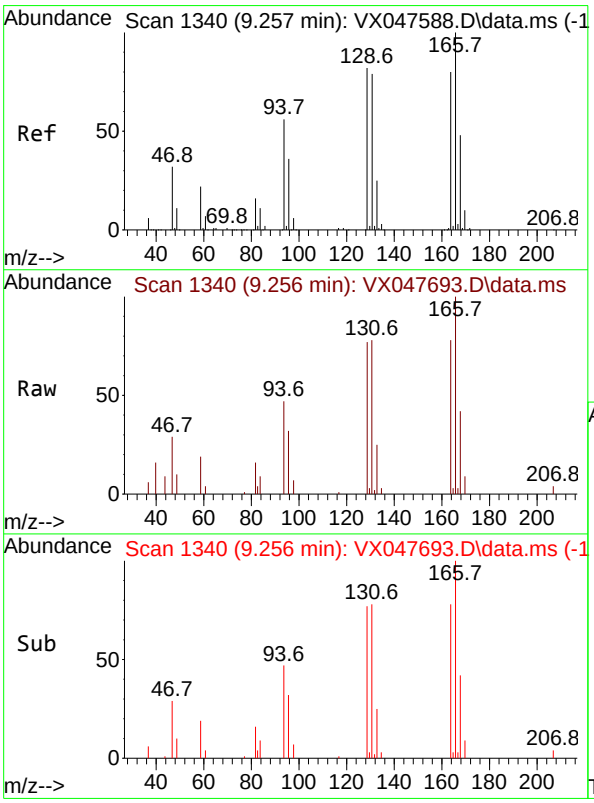
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:117 Resp: 336300

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.8	71.6
119	32.5	25.2	37.8

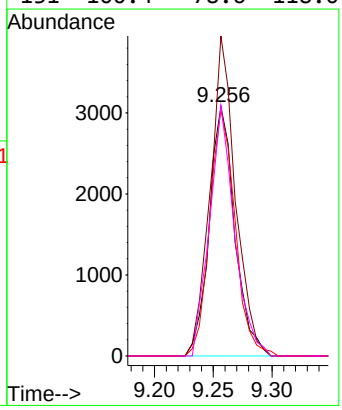


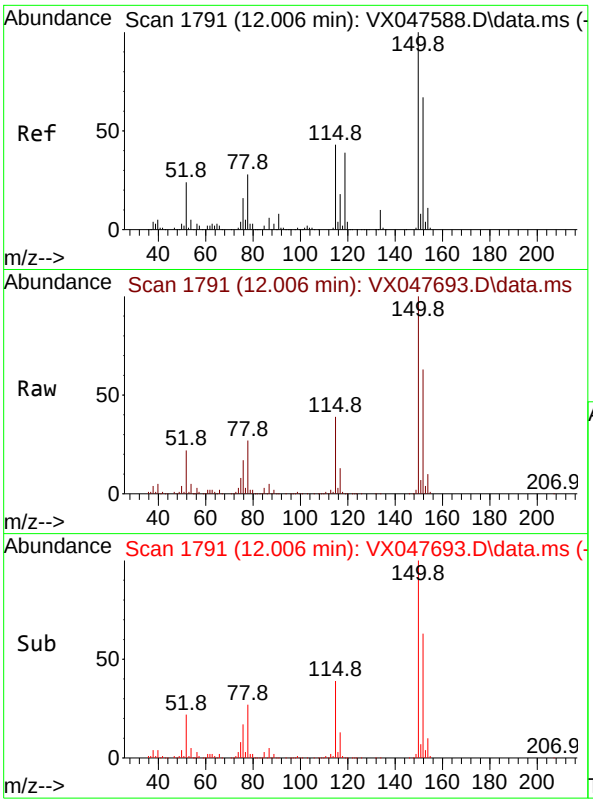


#64
Tetrachloroethene
Concen: 2.130 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Tgt Ion:164 Resp: 4669

Ion	Ratio	Lower	Upper
164	100		
166	128.3	100.2	150.2
129	98.6	81.8	122.6
131	100.4	78.6	118.0



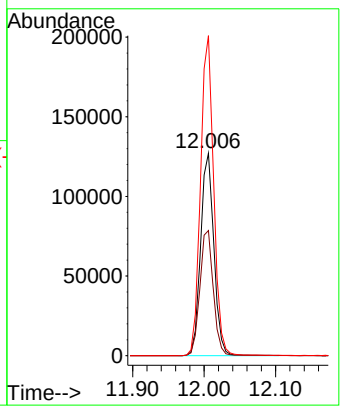


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047693.D
Acq: 22 Sep 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911DL

Tgt Ion:152 Resp: 163574

Ion	Ratio	Lower	Upper
152	100		
115	62.8	44.9	134.5
150	157.0	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047697.D	1	09/22/25 12:44	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	24.0		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047697.D	1	09/22/25 12:44	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	1.80		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.2		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.4		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	189000	5.538				
540-36-3	1,4-Difluorobenzene	348000	6.751				
3114-55-4	Chlorobenzene-d5	314000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	152000	12.006				

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE108D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047697.D	1	09/22/25 12:44	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047697.D
Acq On : 22 Sep 2025 12:44
Operator : JC/MD
Sample : Q3097-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20250911

Quant Time: Sep 23 01:32:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

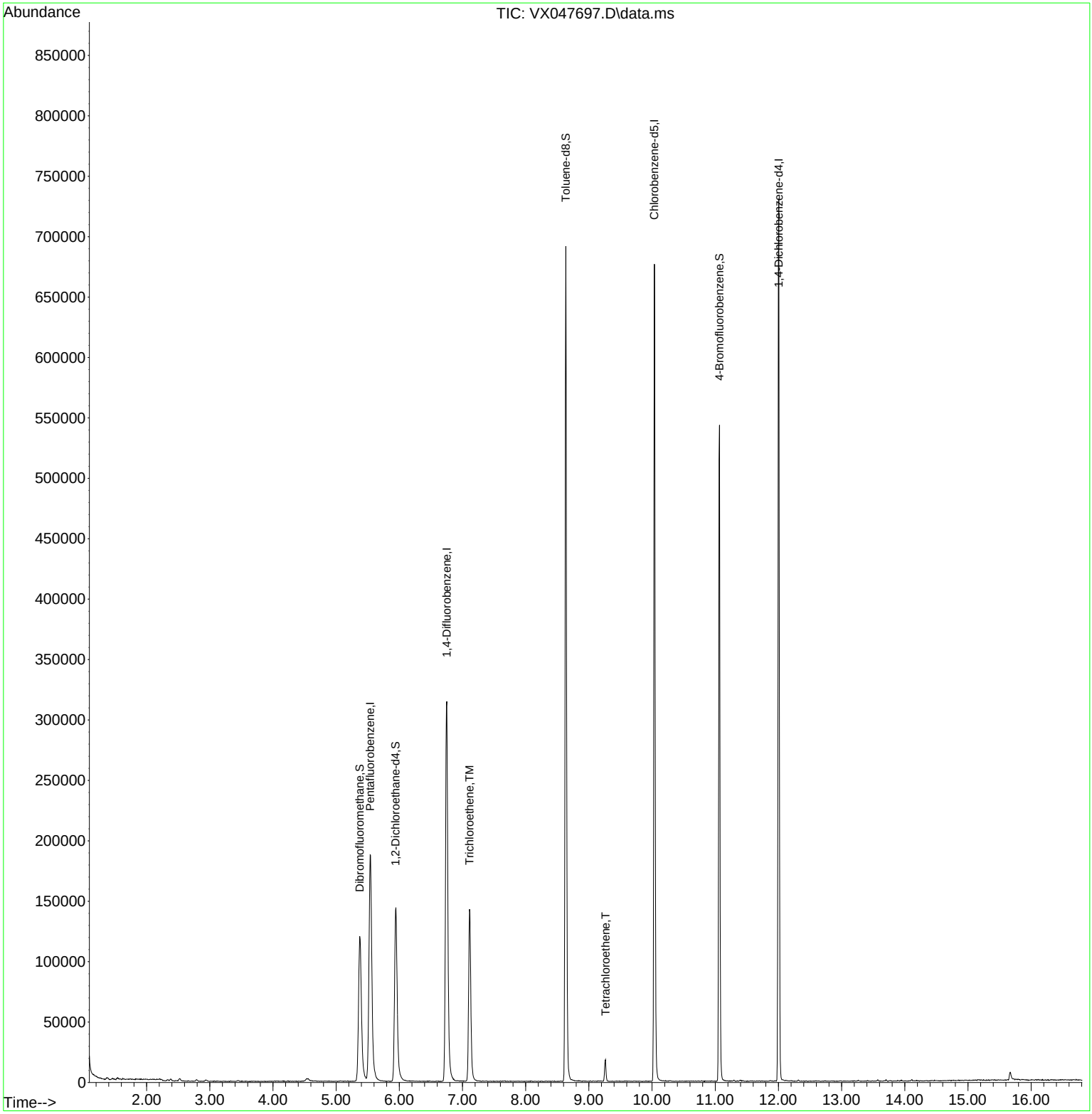
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	188813	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	347701	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	313912	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	152363	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	156802	52.173	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.340%			
35) Dibromofluoromethane	5.373	113	118807	50.949	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.900%			
50) Toluene-d8	8.635	98	415067	51.441	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.880%			
62) 4-Bromofluorobenzene	11.067	95	157359	51.387	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.780%			
Target Compounds						Qvalue
44) Trichloroethene	7.110	130	60076	24.011	ug/l	95
64) Tetrachloroethene	9.262	164	3707	1.811	ug/l	91

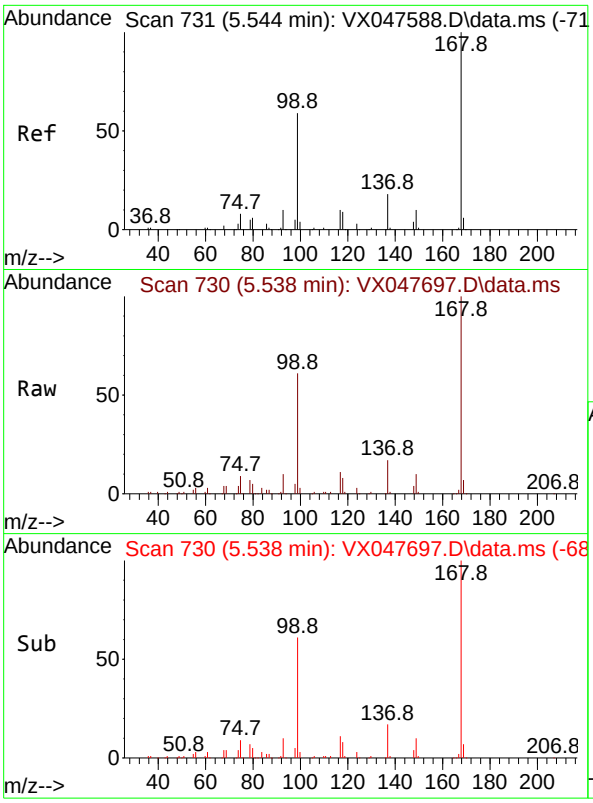
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047697.D
Acq On : 22 Sep 2025 12:44
Operator : JC/MD
Sample : Q3097-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20250911

Quant Time: Sep 23 01:32:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



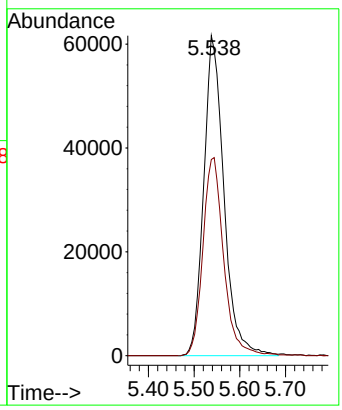


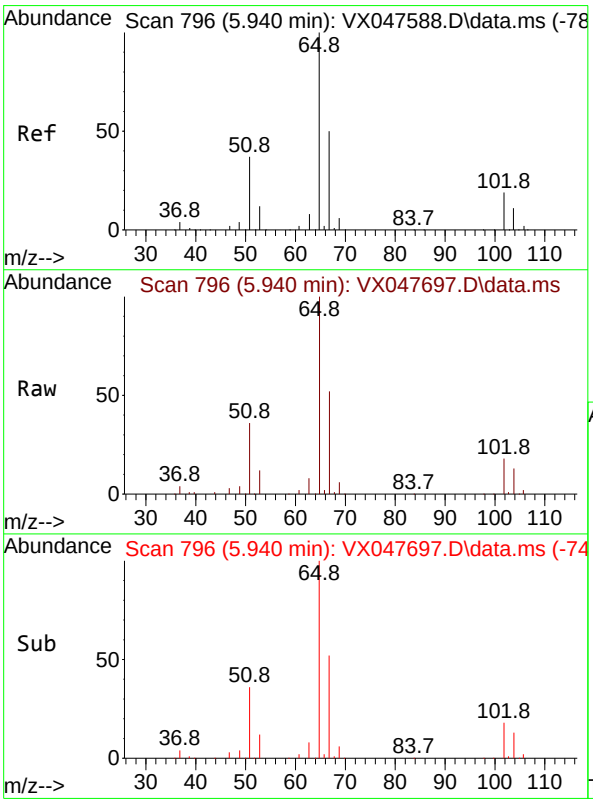
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20250911

Tgt Ion:168 Resp: 188813

Ion	Ratio	Lower	Upper
168	100		
99	61.3	48.8	73.2

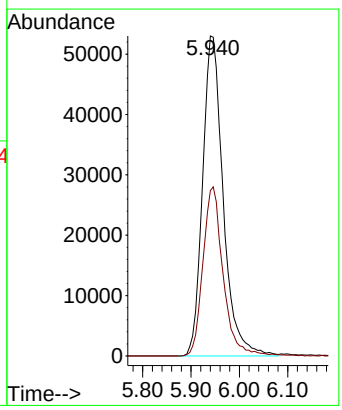


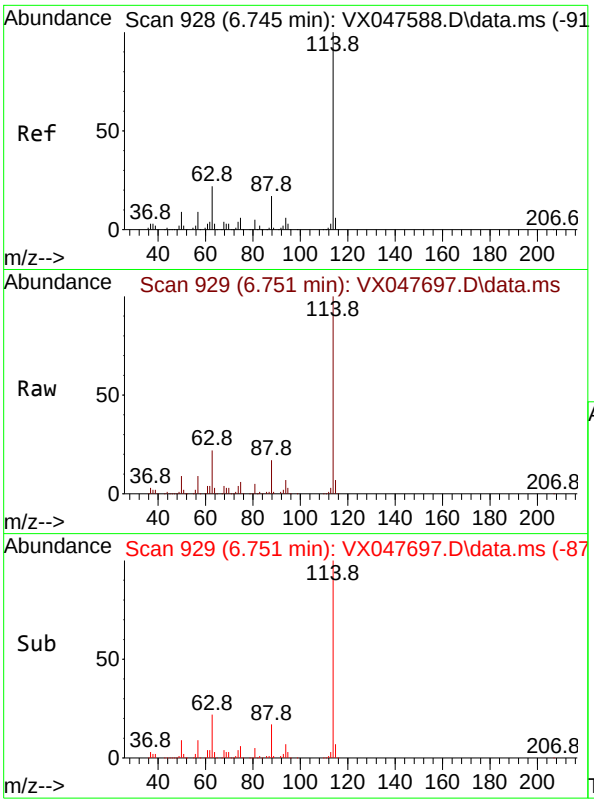


#33
1,2-Dichloroethane-d4
Concen: 52.173 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Tgt Ion: 65 Resp: 156802

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.0



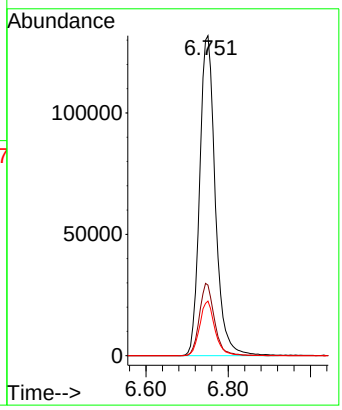


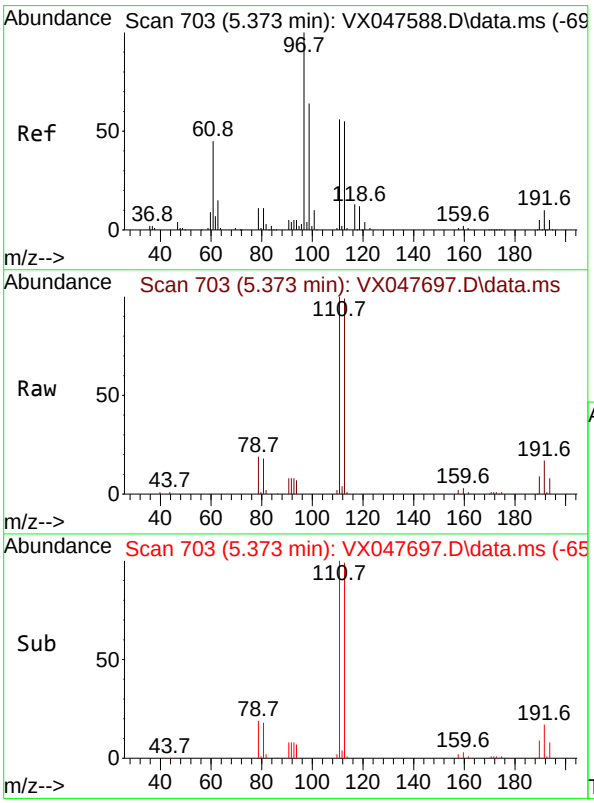
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20250911

Tgt Ion:114 Resp: 347701

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	17.1	0.0	34.2

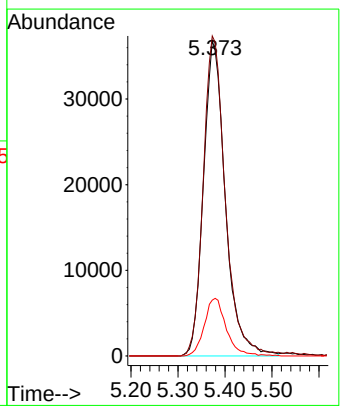


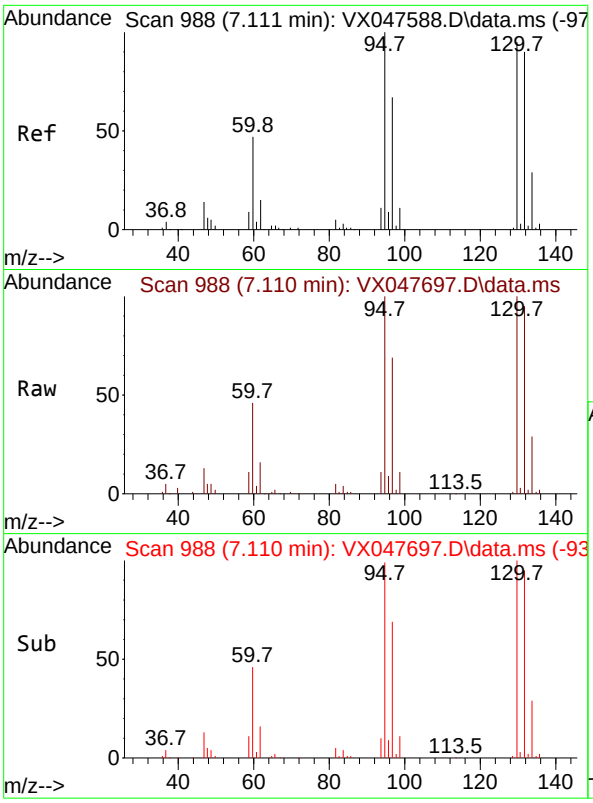


#35
Dibromofluoromethane
Concen: 50.949 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Tgt Ion:113 Resp: 118807

Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.9	121.3
192	18.4	14.2	21.4



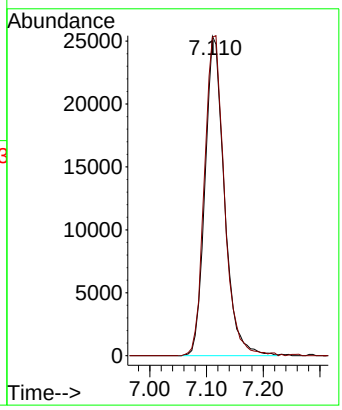


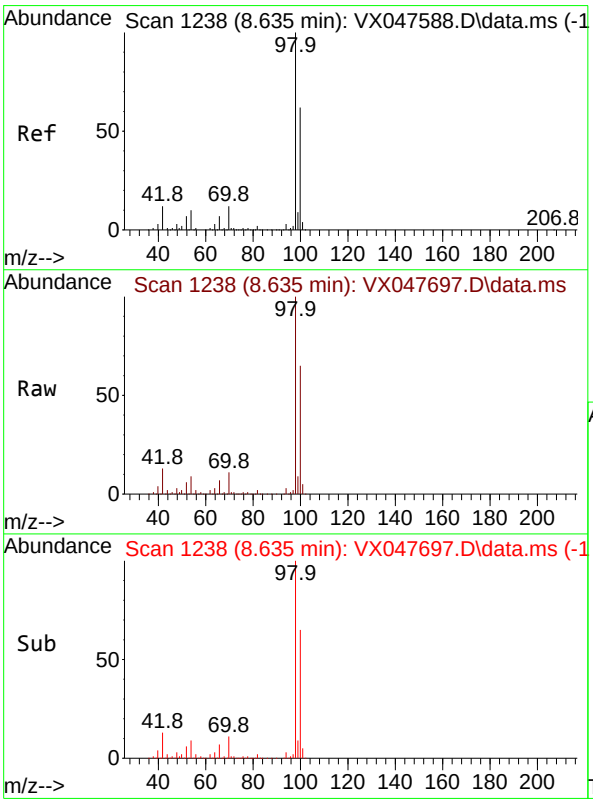
#44
Trichloroethene
Concen: 24.011 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20250911

Tgt Ion:130 Resp: 60076

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	210.8

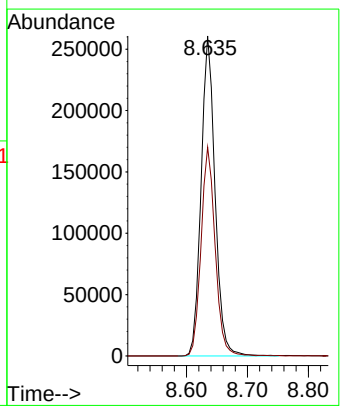


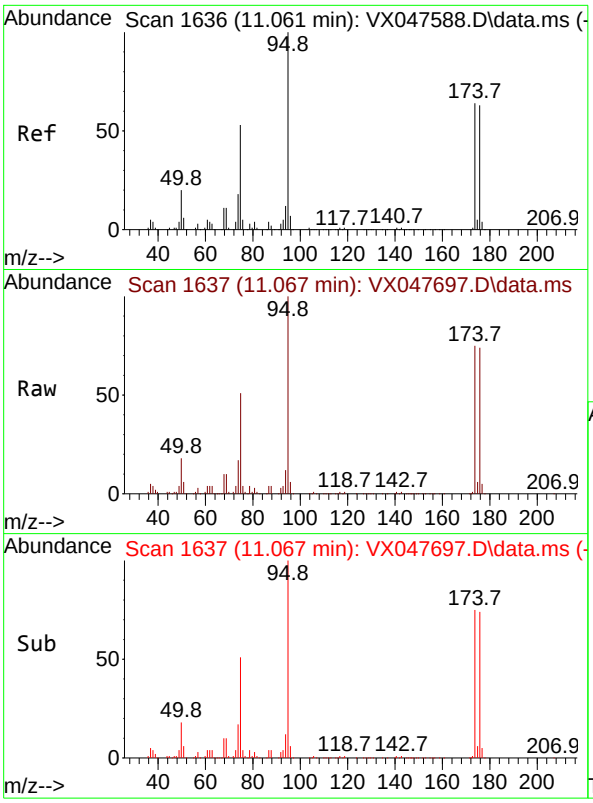


#50
Toluene-d8
Concen: 51.441 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Tgt Ion: 98 Resp: 415067

Ion	Ratio	Lower	Upper
98	100		
100	66.0	53.0	79.4



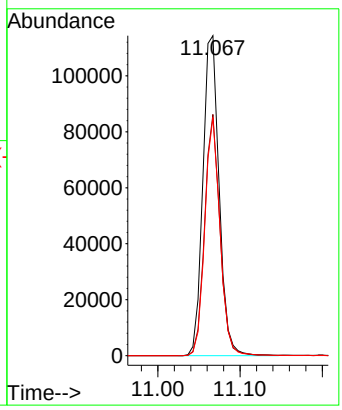


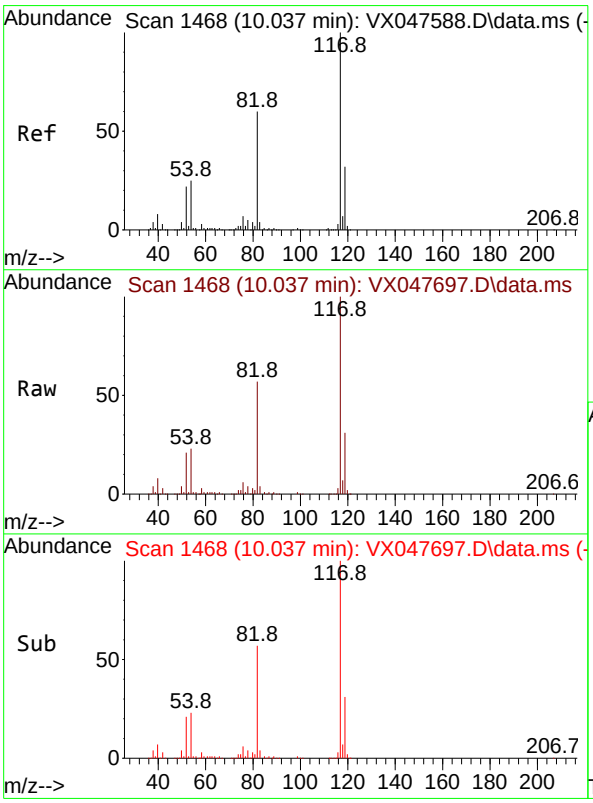
#62
4-Bromofluorobenzene
Concen: 51.387 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20250911

Tgt Ion: 95 Resp: 157359

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	141.6
176	69.6	0.0	138.4

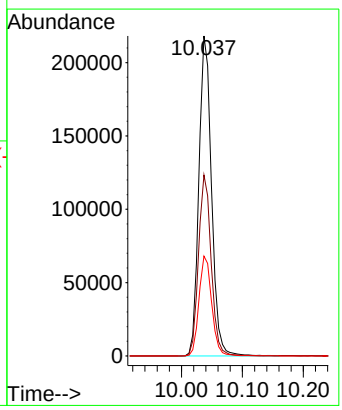


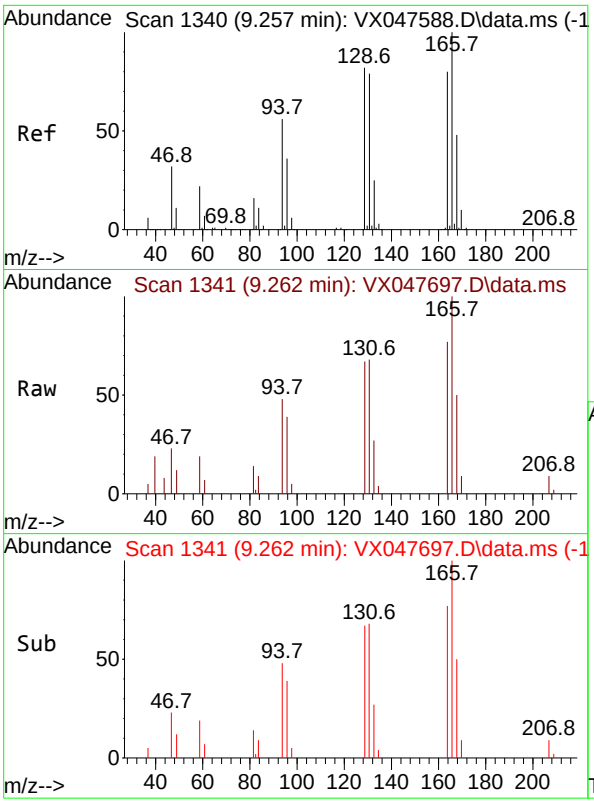


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Tgt Ion:117 Resp: 313912

Ion	Ratio	Lower	Upper
117	100		
82	56.6	47.8	71.6
119	31.2	25.2	37.8



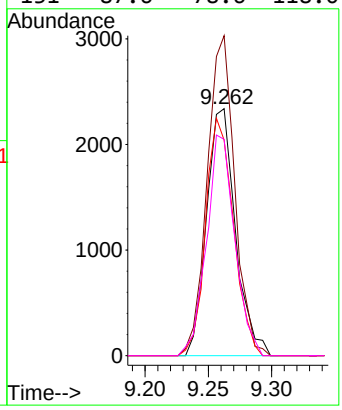


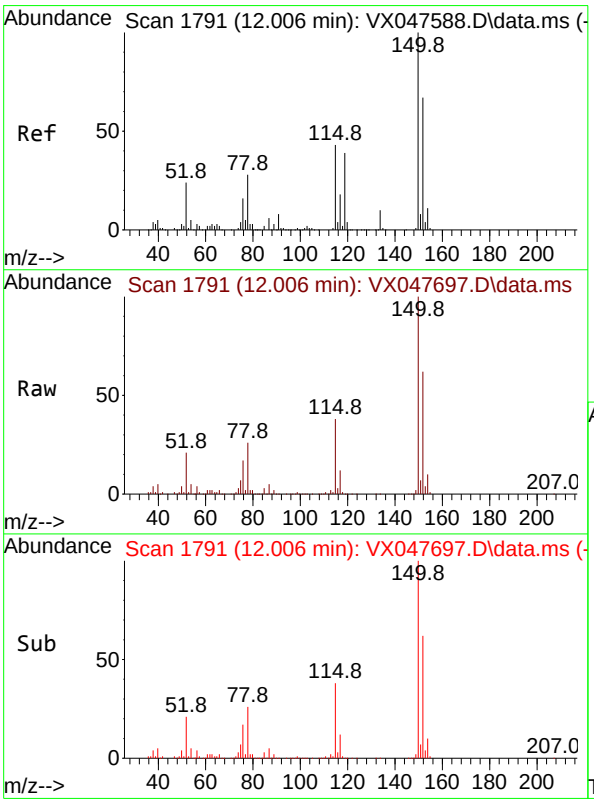
#64
Tetrachloroethene
Concen: 1.811 ug/l
RT: 9.262 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20250911

Tgt Ion:164 Resp: 3707

Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.2	150.2
129	87.2	81.8	122.6
131	87.6	78.6	118.0

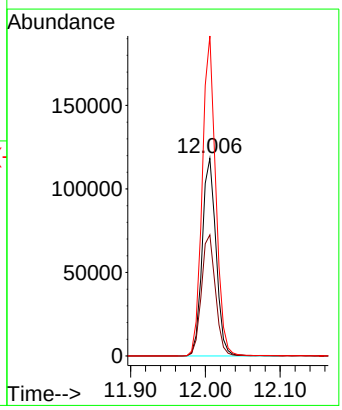




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047697.D
Acq: 22 Sep 2025 12:44

Tgt Ion:152 Resp: 152363

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.9	134.5
150	157.8	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047698.D	1	09/22/25 13:05	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	15.1		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047698.D	1	09/22/25 13:05	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.27	J	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.7		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	54.1		80 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	53.6		89 - 112		107%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	186000	5.544				
540-36-3	1,4-Difluorobenzene	335000	6.751				
3114-55-4	Chlorobenzene-d5	304000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	150000	12.006				

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D3-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047698.D	1	09/22/25 13:05	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047698.D
Acq On : 22 Sep 2025 13:05
Operator : JC/MD
Sample : Q3097-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20250911

Quant Time: Sep 23 01:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

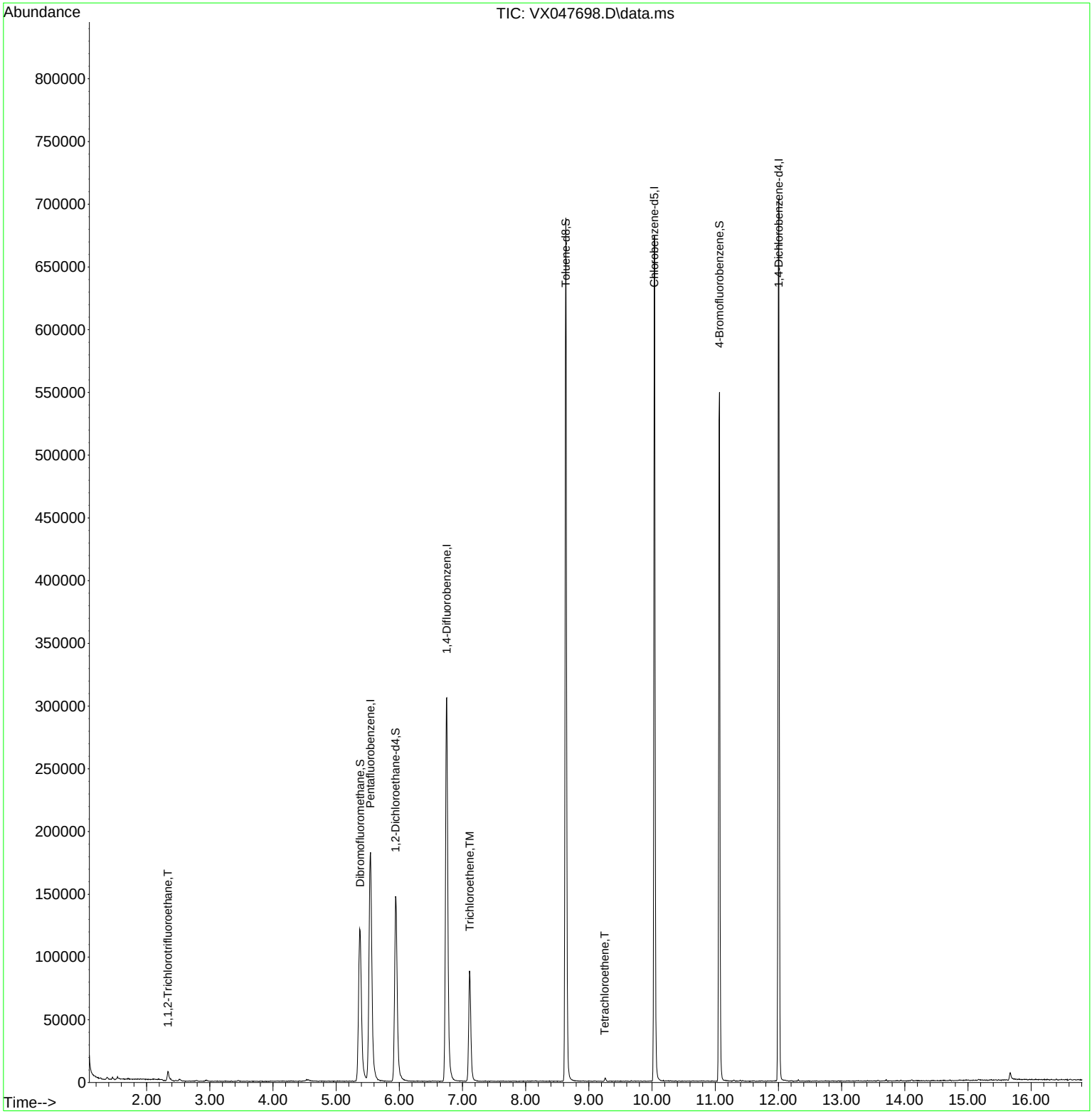
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	186167	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	335374	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	304338	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	149631	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	159085	53.685	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.360%			
35) Dibromofluoromethane	5.379	113	121680	54.099	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.200%			
50) Toluene-d8	8.635	98	417141	53.599	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 107.200%			
62) 4-Bromofluorobenzene	11.067	95	159713	54.073	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.140%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	3532	1.640	ug/l	97
44) Trichloroethene	7.117	130	36442	15.100	ug/l	93
64) Tetrachloroethene	9.250	164	541	0.273	ug/l #	50

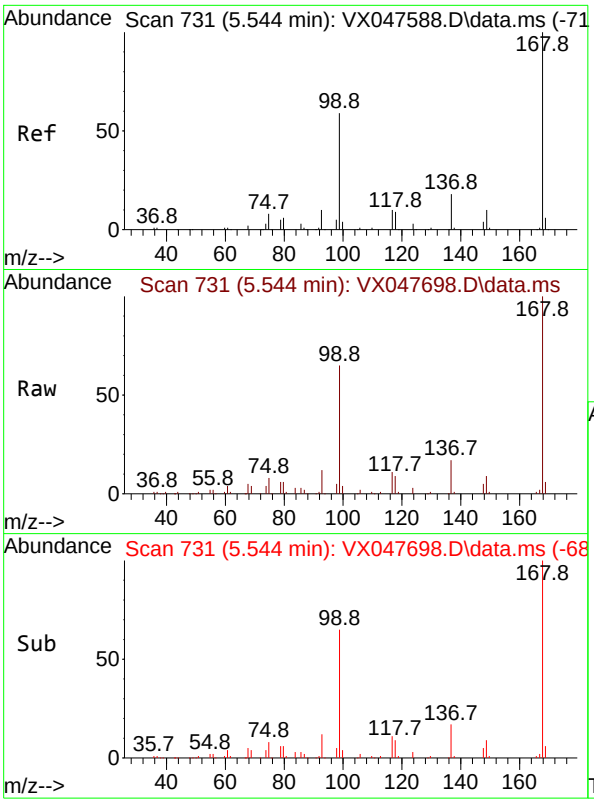
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047698.D
Acq On : 22 Sep 2025 13:05
Operator : JC/MD
Sample : Q3097-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20250911

Quant Time: Sep 23 01:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



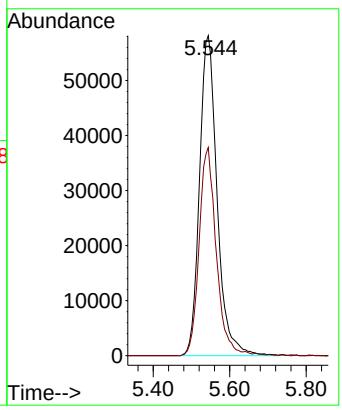


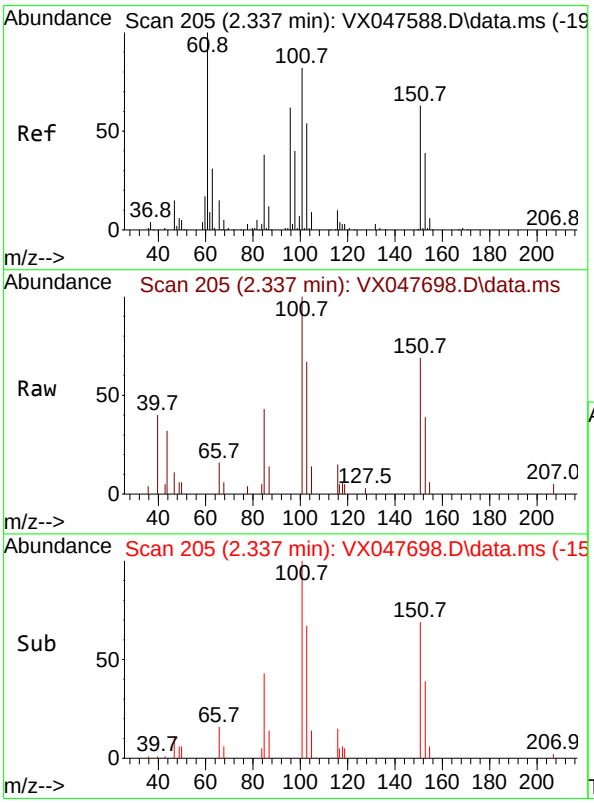
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20250911

Tgt Ion:168 Resp: 186167

Ion	Ratio	Lower	Upper
168	100		
99	65.1	48.8	73.2

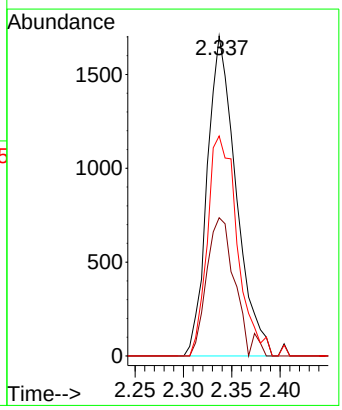


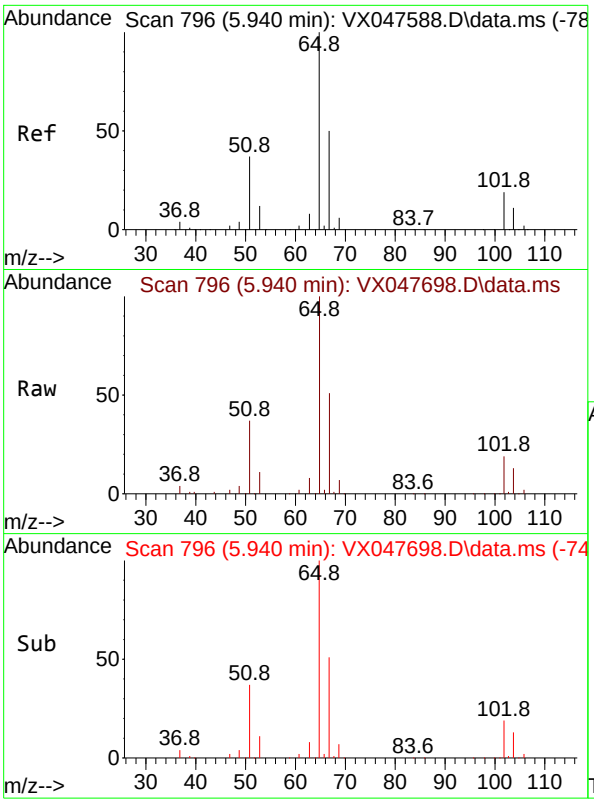


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.640 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Tgt Ion:101 Resp: 3532

Ion	Ratio	Lower	Upper
101	100		
85	42.5	35.5	53.3
151	71.3	59.4	89.0



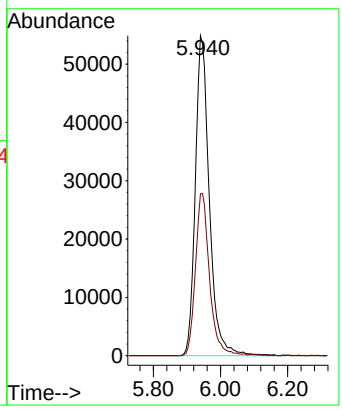


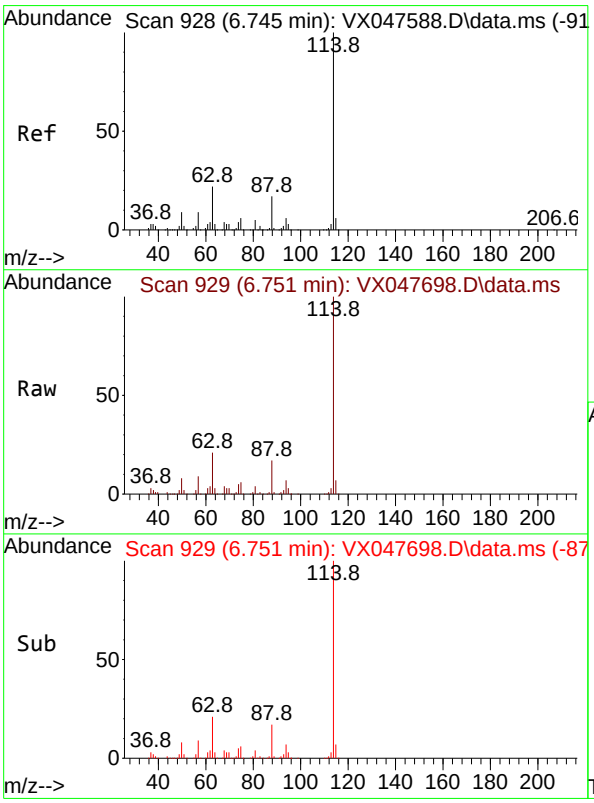
#33
1,2-Dichloroethane-d4
Concen: 53.685 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20250911

Tgt Ion: 65 Resp: 159085

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	103.0

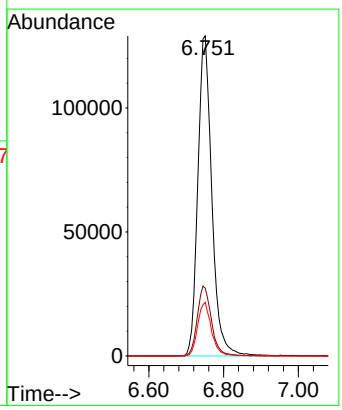


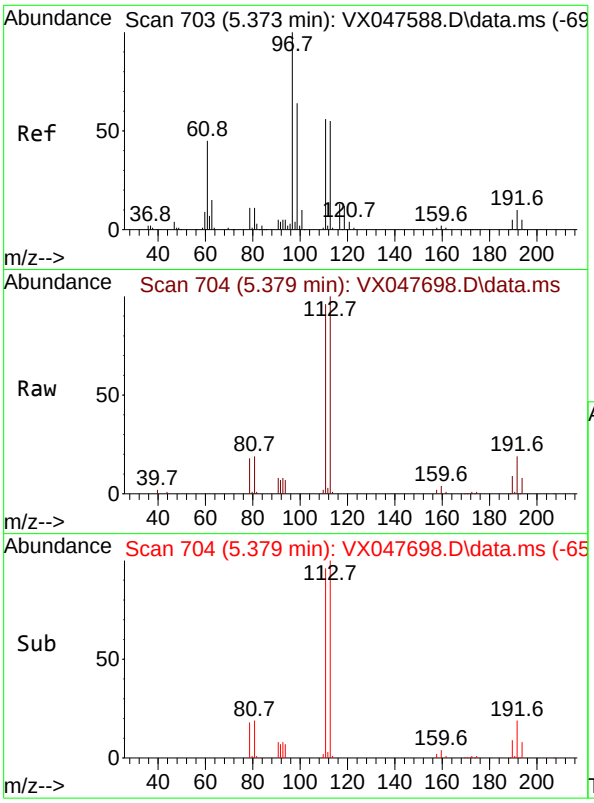


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Tgt Ion:114 Resp: 335374

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.7	0.0	34.2



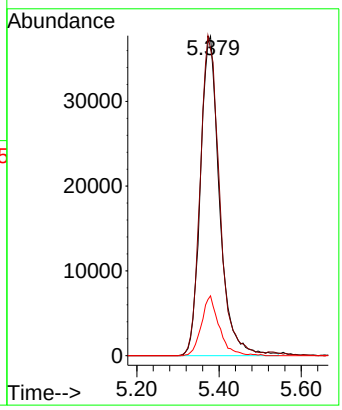


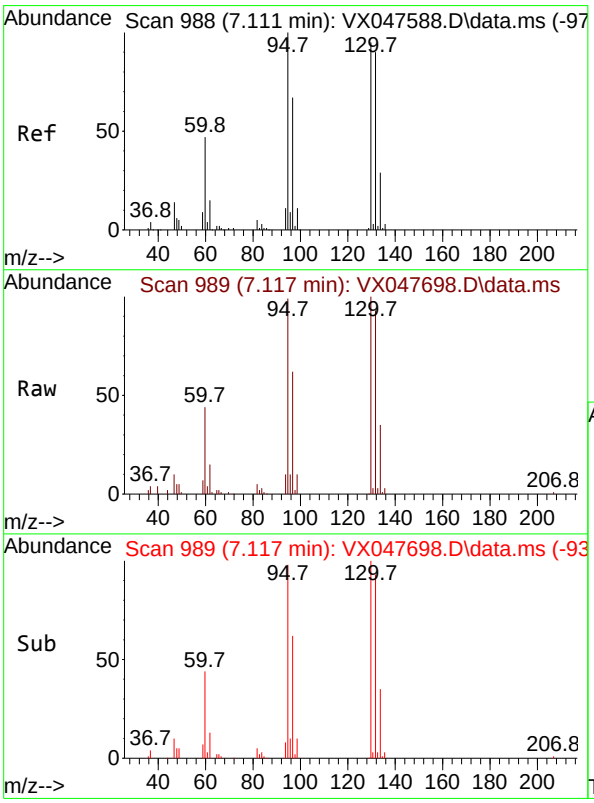
#35
Dibromofluoromethane
Concen: 54.099 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20250911

Tgt Ion:113 Resp: 121680

Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.9	121.3
192	17.3	14.2	21.4

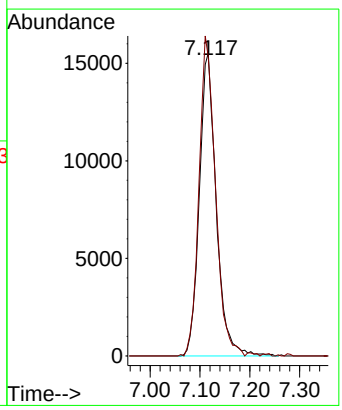


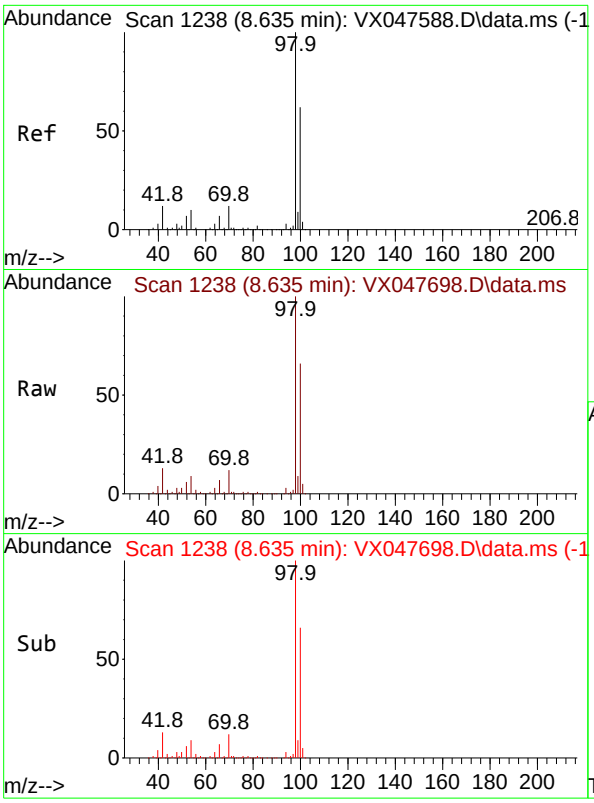


#44
Trichloroethene
Concen: 15.100 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Tgt Ion:130 Resp: 36442

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	210.8



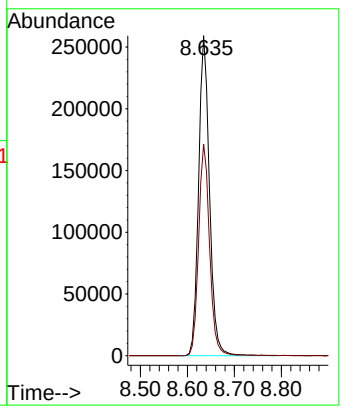


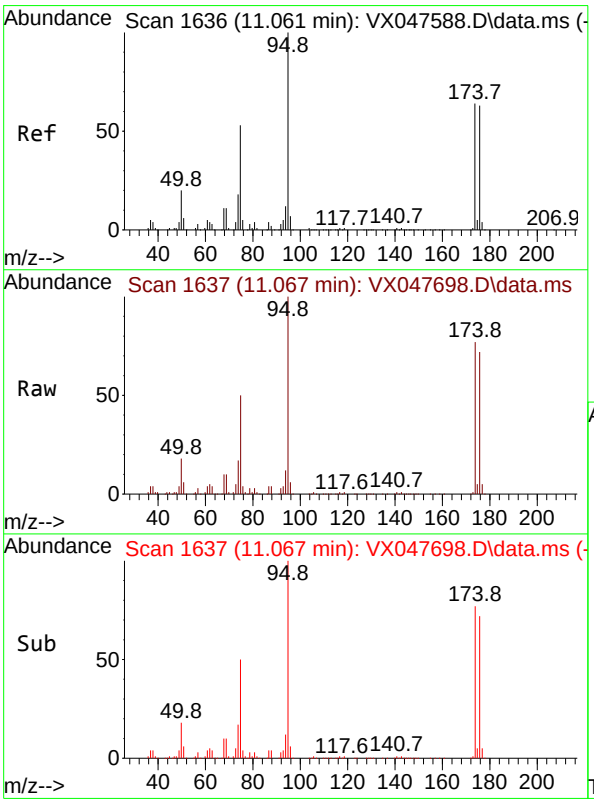
#50
Toluene-d8
Concen: 53.599 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20250911

Tgt Ion: 98 Resp: 417141

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.0	79.4

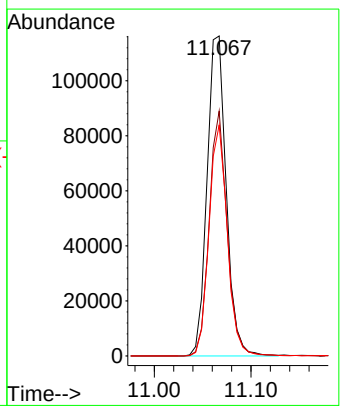


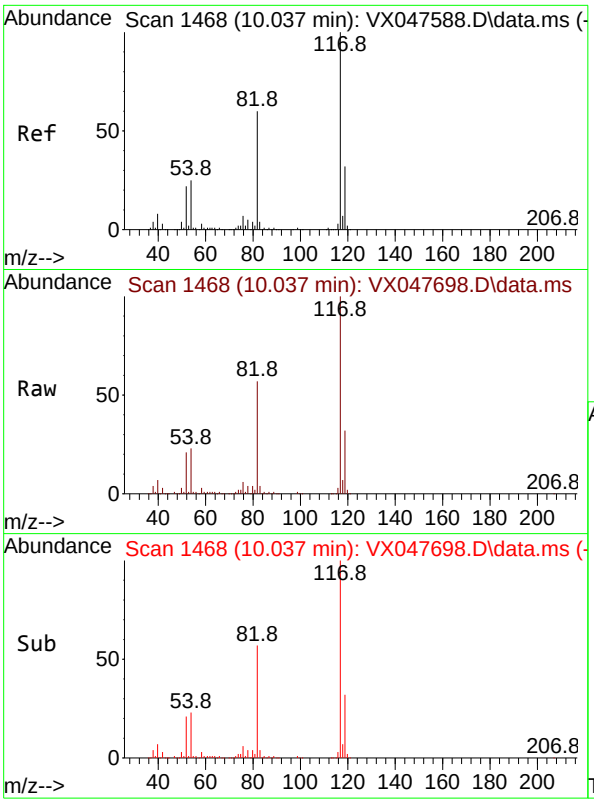


#62
4-Bromofluorobenzene
Concen: 54.073 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Tgt Ion: 95 Resp: 159713

Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	141.6
176	69.1	0.0	138.4



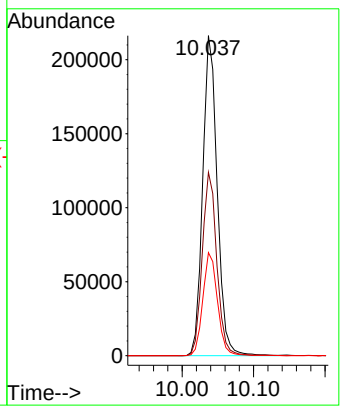


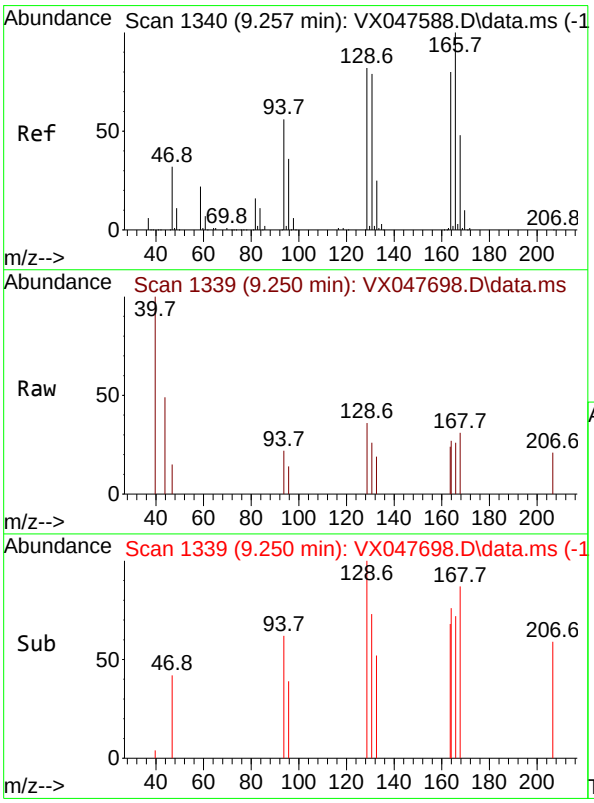
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20250911

Tgt Ion:117 Resp: 304338

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.8	71.6
119	32.2	25.2	37.8

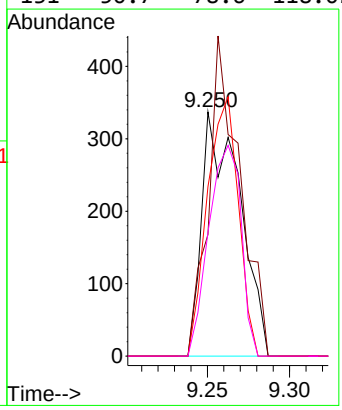


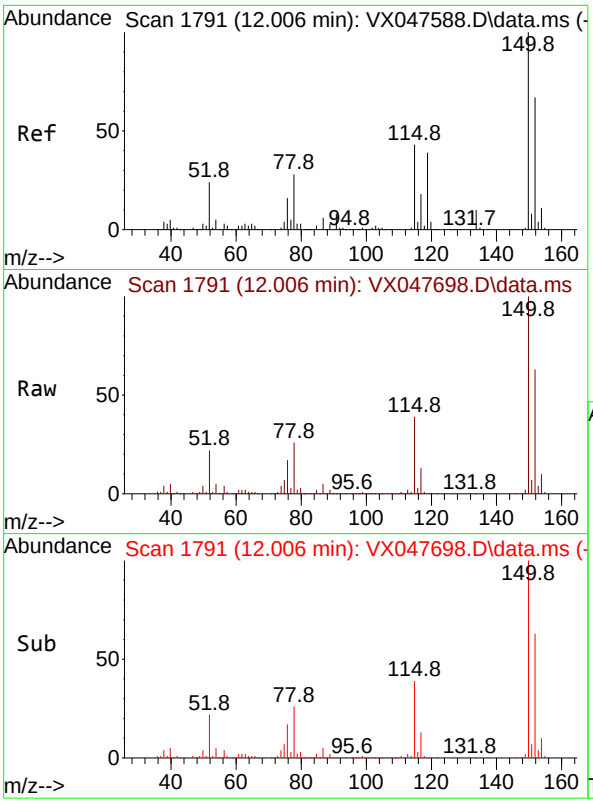


#64
Tetrachloroethene
Concen: 0.273 ug/l
RT: 9.250 min Scan# 1339
Delta R.T. -0.006 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Tgt Ion:164 Resp: 541

Ion	Ratio	Lower	Upper
164	100		
166	49.9	100.2	150.2#
129	69.4	81.8	122.6#
131	50.7	78.6	118.0#



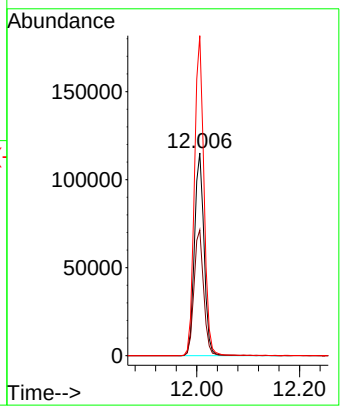


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047698.D
Acq: 22 Sep 2025 13:05

Instrument :
MSVOA_X
ClientSampleId :
RE120D3-20250911

Tgt Ion:152 Resp: 149631

Ion	Ratio	Lower	Upper
152	100		
115	62.3	44.9	134.5
150	156.4	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047683.D	1	09/19/25 17:40	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.20		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.52	J	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	41.1		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047683.D	1	09/19/25 17:40	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.4		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		80 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	54.4		89 - 112		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.1		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	172000	5.544				
540-36-3	1,4-Difluorobenzene	318000	6.751				
3114-55-4	Chlorobenzene-d5	289000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	138000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D1-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-11	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047683.D	1	09/19/25 17:40	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047683.D
Acq On : 19 Sep 2025 17:40
Operator : JC/MD
Sample : Q3097-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE105D1-20250911

Quant Time: Sep 20 00:36:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

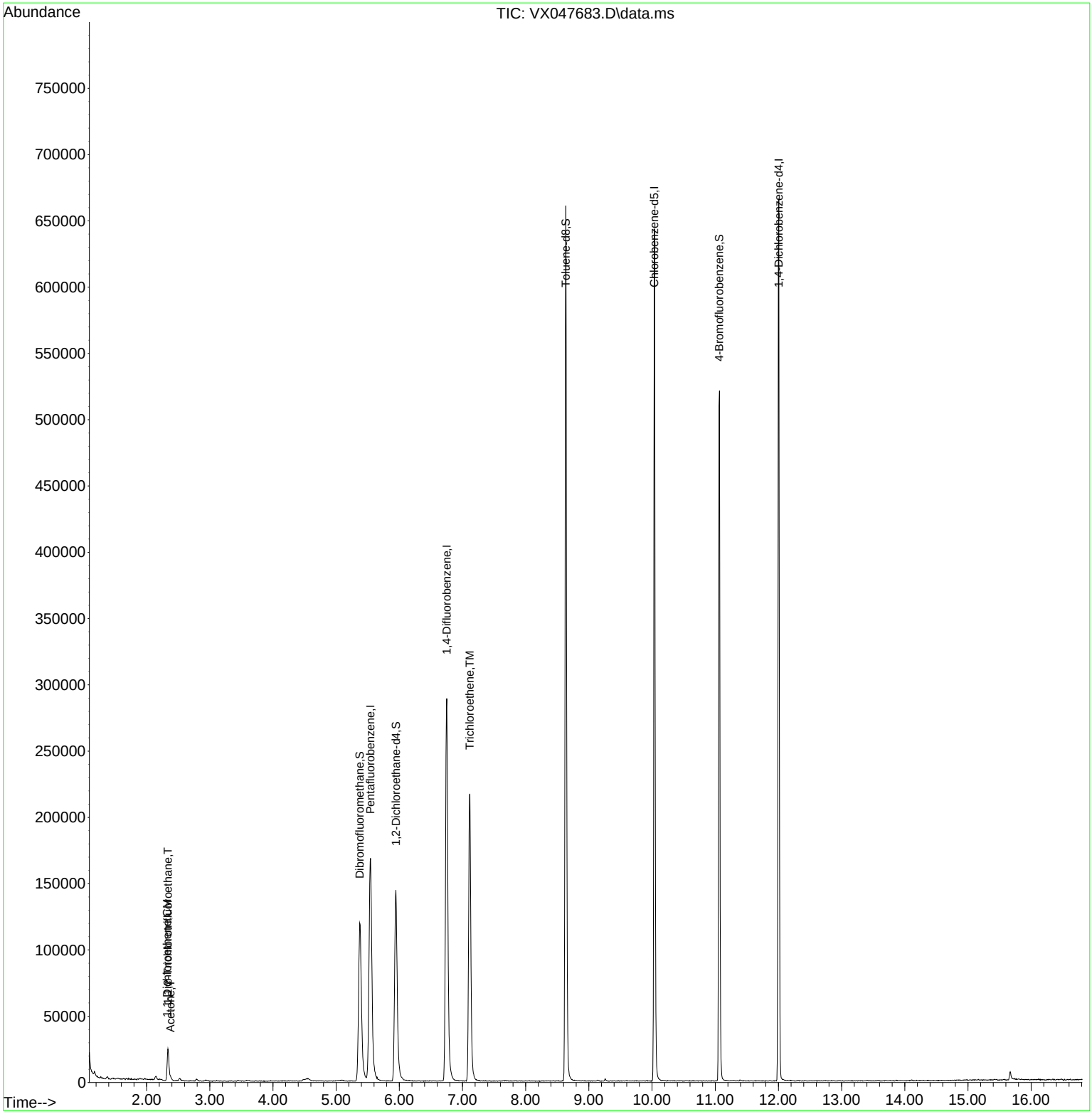
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	171618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	317965	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	289328	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	137612	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	154083	56.405	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.800%			
35) Dibromofluoromethane	5.373	113	116291	54.534	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.060%			
50) Toluene-d8	8.635	98	401515	54.415	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 108.840%			
62) 4-Bromofluorobenzene	11.061	95	154347	55.117	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.240%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	10394	5.236	ug/l	100
12) 1,1-Dichloroethene	2.325	96	1056	0.518	ug/l #	87
16) Acetone	2.380	43	1714	1.443	ug/l #	88
44) Trichloroethene	7.117	130	93951	41.061	ug/l	93

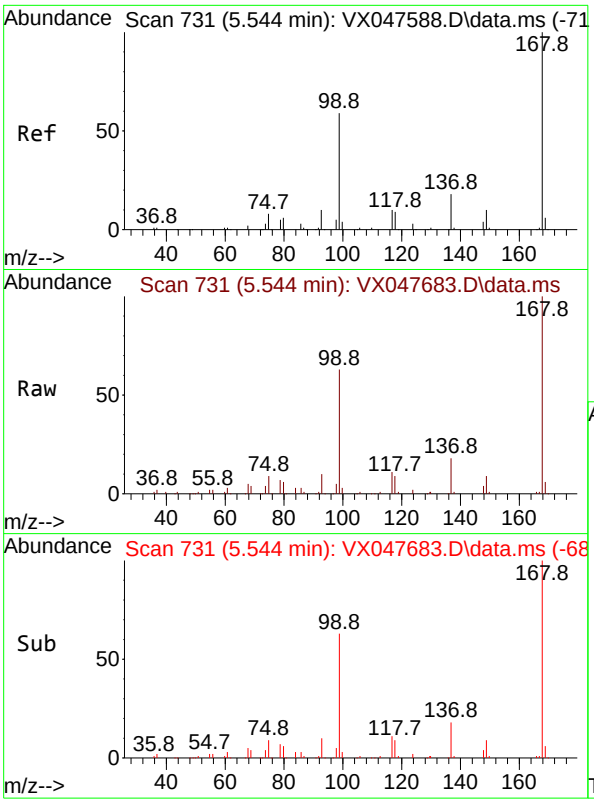
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047683.D
Acq On : 19 Sep 2025 17:40
Operator : JC/MD
Sample : Q3097-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE105D1-20250911

Quant Time: Sep 20 00:36:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



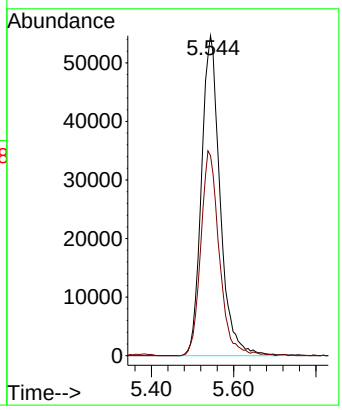


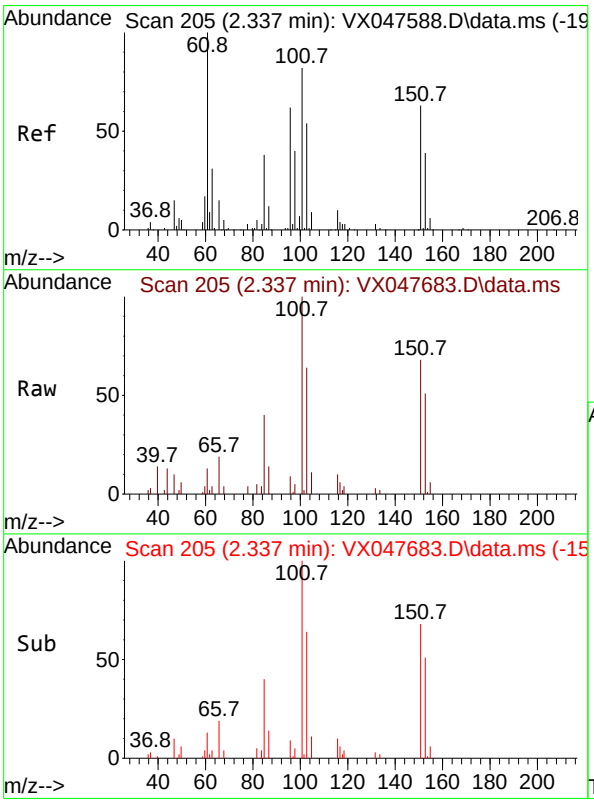
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
RE105D1-20250911

Tgt Ion:168 Resp: 171618

Ion	Ratio	Lower	Upper
168	100		
99	62.5	48.8	73.2

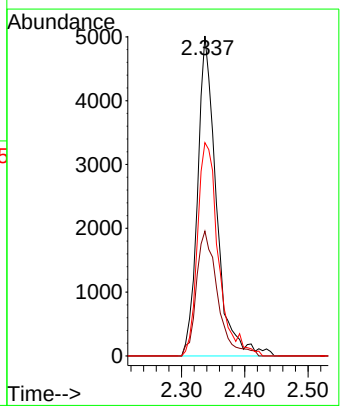


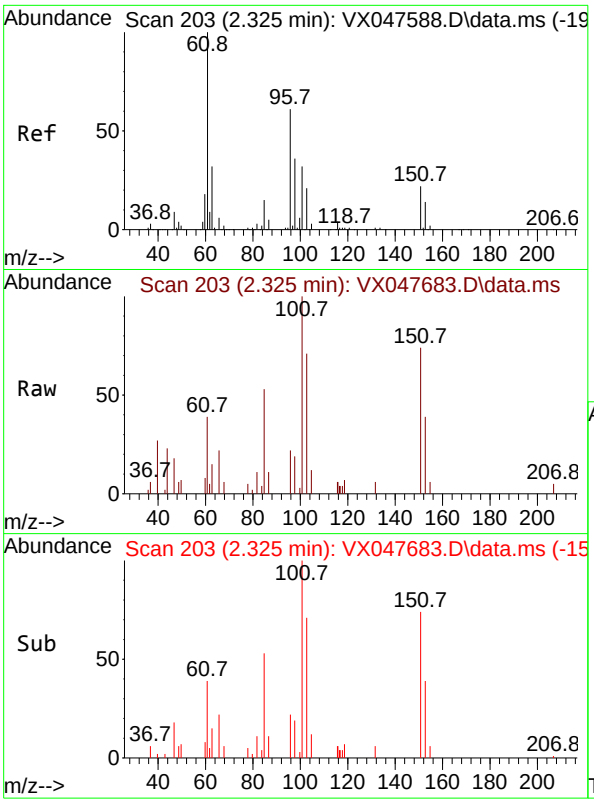


#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.236 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Tgt Ion:101 Resp: 10394

Ion	Ratio	Lower	Upper
101	100		
85	44.0	35.5	53.3
151	73.9	59.4	89.0



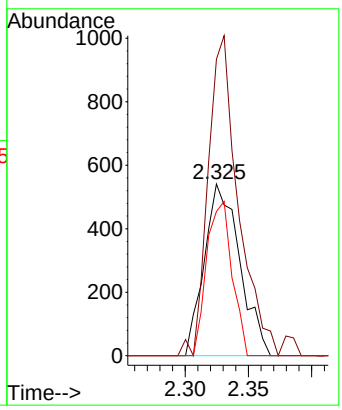


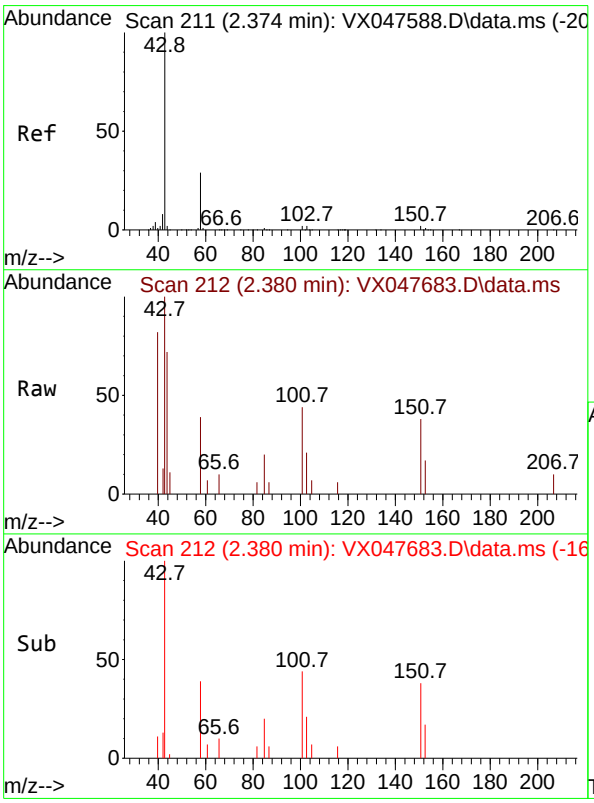
#12
1,1-Dichloroethene
Concen: 0.518 ug/l
RT: 2.325 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
RE105D1-20250911

Tgt Ion: 96 Resp: 1056

Ion	Ratio	Lower	Upper
96	100		
61	172.6	131.0	196.6
98	83.9	47.7	71.5#

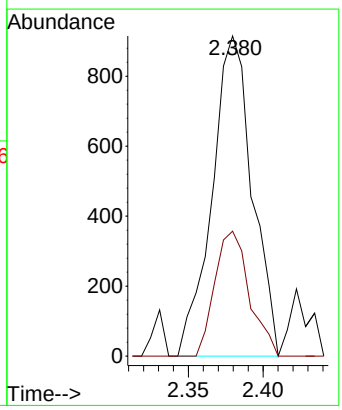


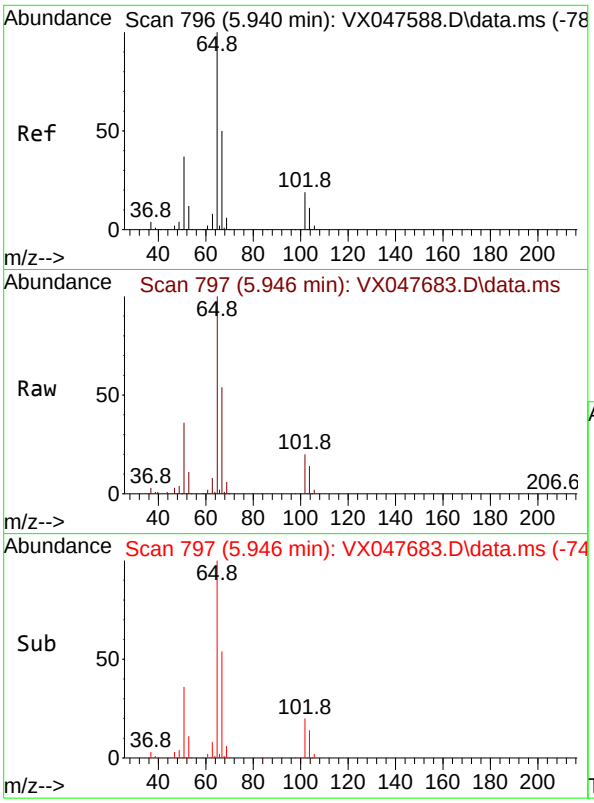


#16
Acetone
Concen: 1.443 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Tgt Ion: 43 Resp: 1714

Ion	Ratio	Lower	Upper
43	100		
58	22.7	23.4	35.0#



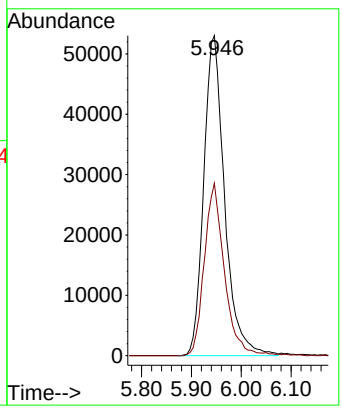


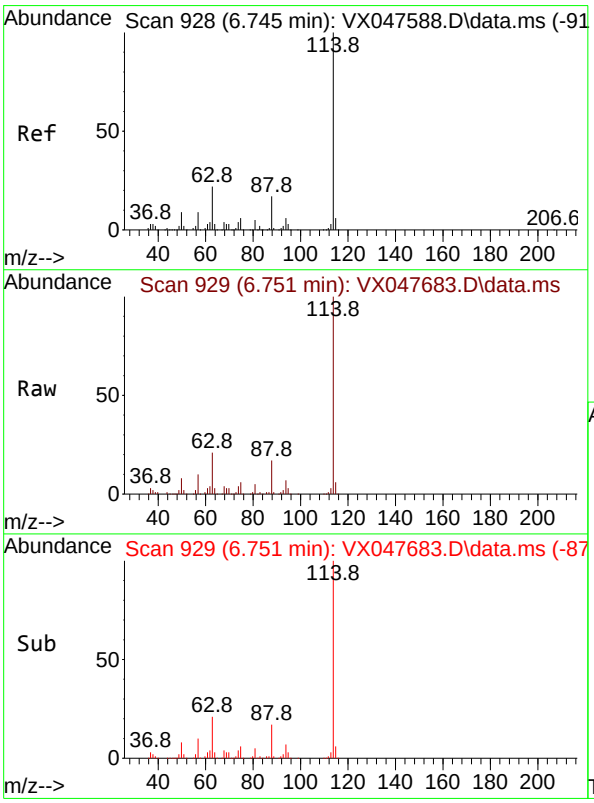
#33
1,2-Dichloroethane-d4
Concen: 56.405 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
RE105D1-20250911

Tgt Ion: 65 Resp: 154083

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0

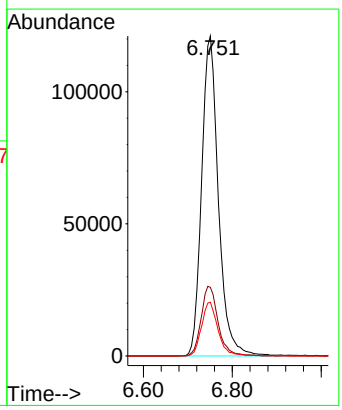


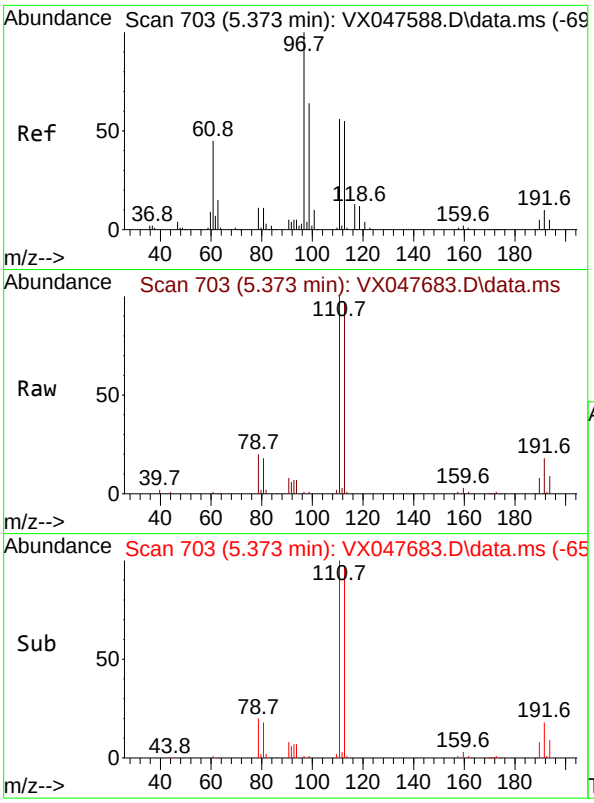


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Tgt Ion:114 Resp: 317965

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	44.0
88	16.8	0.0	34.2



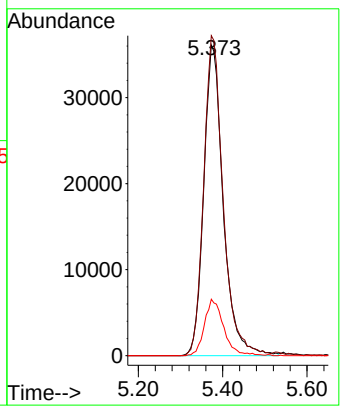


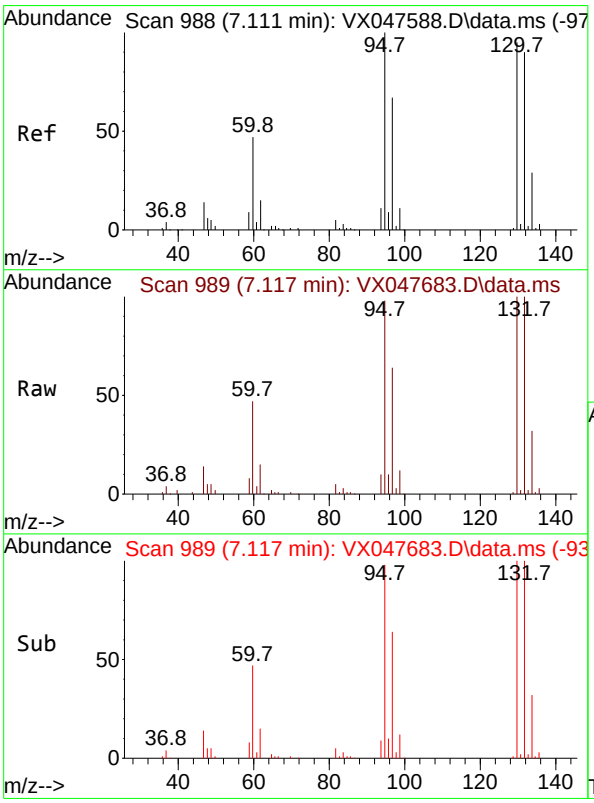
#35
Dibromofluoromethane
Concen: 54.534 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
RE105D1-20250911

Tgt Ion:113 Resp: 116291

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.9	121.3
192	17.9	14.2	21.4

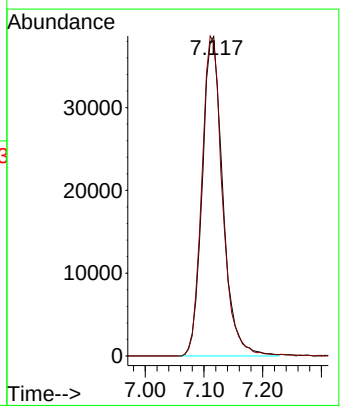


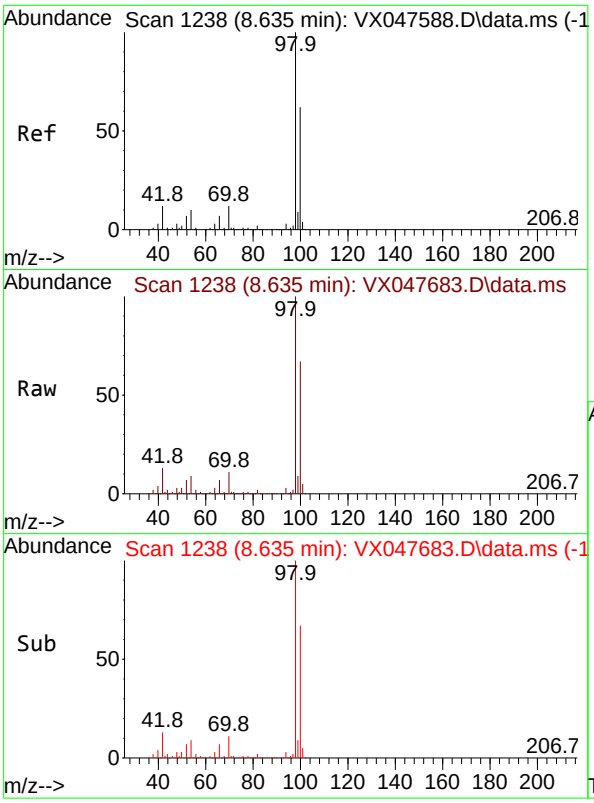


#44
Trichloroethene
Concen: 41.061 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Tgt Ion:130 Resp: 93951

Ion	Ratio	Lower	Upper
130	100		
95	98.2	0.0	210.8



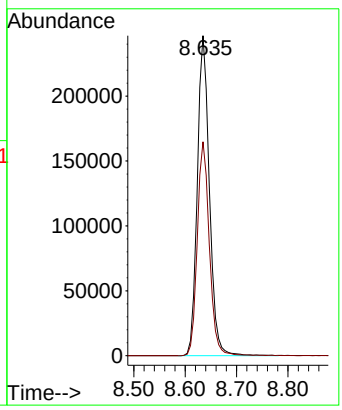


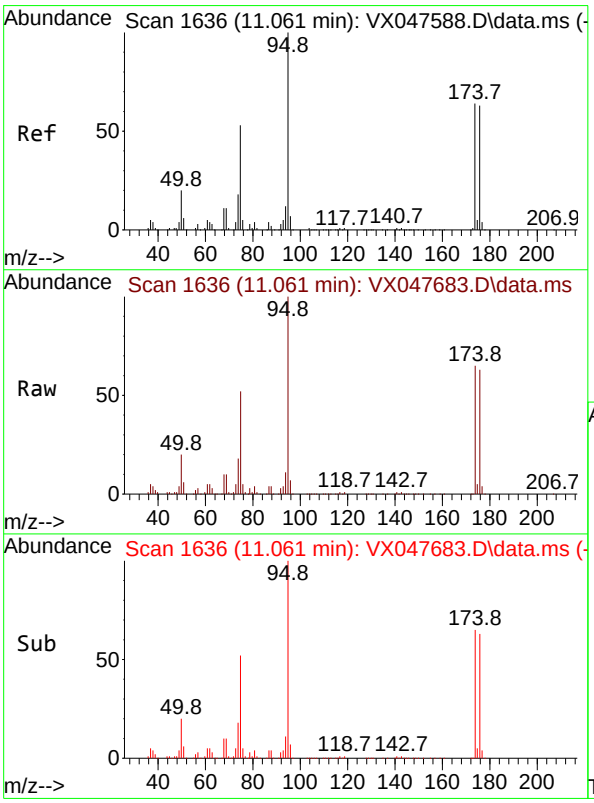
#50
Toluene-d8
Concen: 54.415 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
RE105D1-20250911

Tgt Ion: 98 Resp: 401515

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.0	79.4

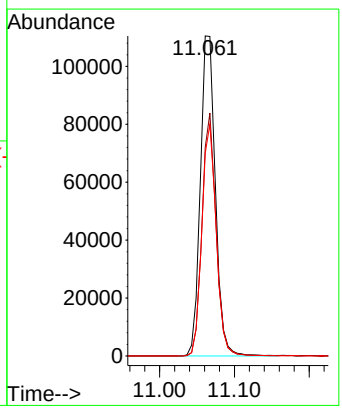


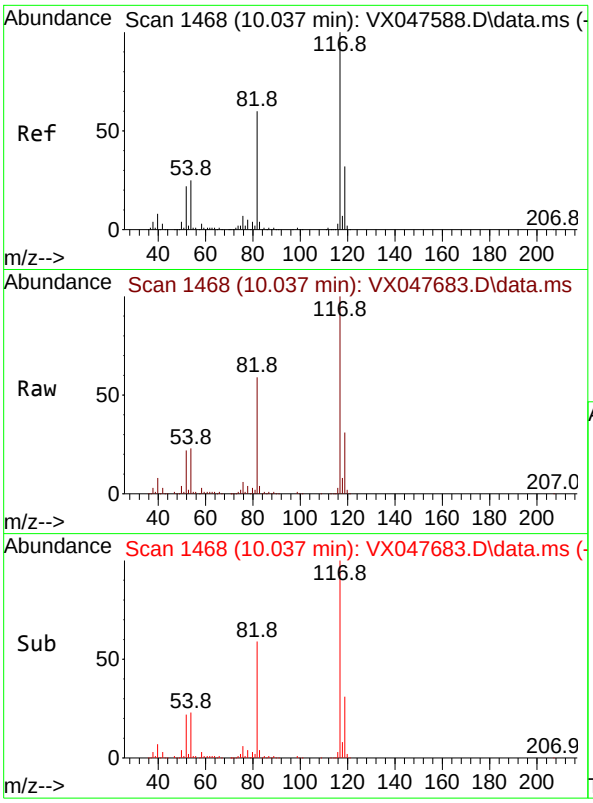


#62
4-Bromofluorobenzene
Concen: 55.117 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Tgt Ion: 95 Resp: 154347

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	141.6
176	69.4	0.0	138.4



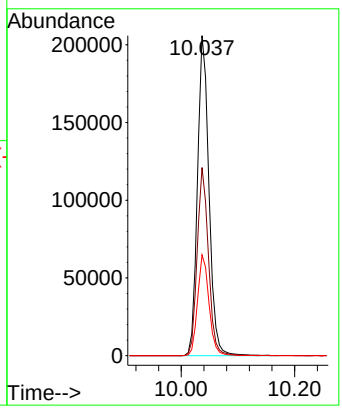


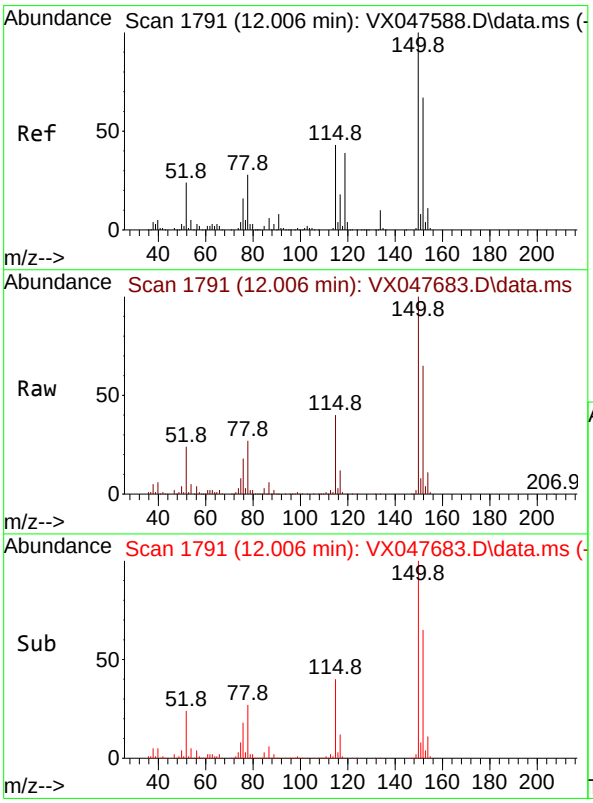
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Instrument :
MSVOA_X
ClientSampleId :
RE105D1-20250911

Tgt Ion:117 Resp: 289328

Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.8	71.6
119	31.5	25.2	37.8

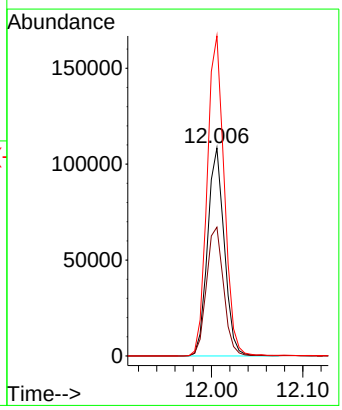




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047683.D
Acq: 19 Sep 2025 17:40

Tgt Ion:152 Resp: 137612

Ion	Ratio	Lower	Upper
152	100		
115	63.6	44.9	134.5
150	157.0	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP04-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047684.D	1	09/19/25 18:01	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.10		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.52	J	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.32	J	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	41.5		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP04-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047684.D	1	09/19/25 18:01	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.9		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	52.7		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	172000	5.544				
540-36-3	1,4-Difluorobenzene	315000	6.751				
3114-55-4	Chlorobenzene-d5	288000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	141000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP04-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-12	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047684.D	1	09/19/25 18:01	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047684.D
Acq On : 19 Sep 2025 18:01
Operator : JC/MD
Sample : Q3097-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20250911

Quant Time: Sep 20 00:36:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

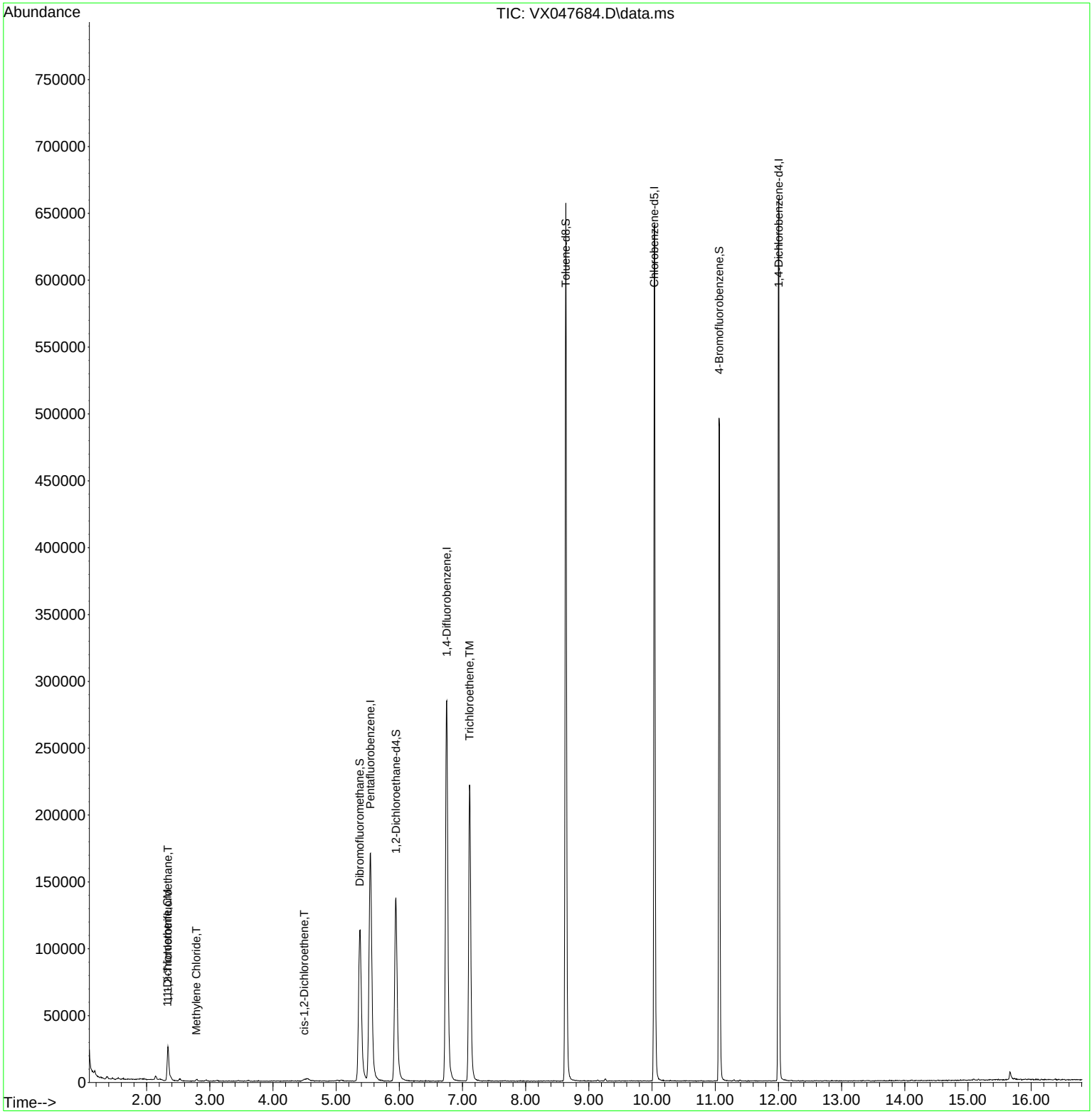
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	172337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	315489	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	287627	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	140501	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	147719	53.850	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.700%			
35) Dibromofluoromethane	5.373	113	111279	52.593	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.180%			
50) Toluene-d8	8.634	98	386055	52.731	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 105.460%			
62) 4-Bromofluorobenzene	11.061	95	146653	52.781	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.560%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	10091	5.062	ug/l	97
12) 1,1-Dichloroethene	2.331	96	1059	0.517	ug/l	85
20) Methylene Chloride	2.788	84	657	0.260	ug/l #	72
27) cis-1,2-Dichloroethene	4.495	96	870	0.322	ug/l	91
44) Trichloroethene	7.110	130	94127	41.461	ug/l	98

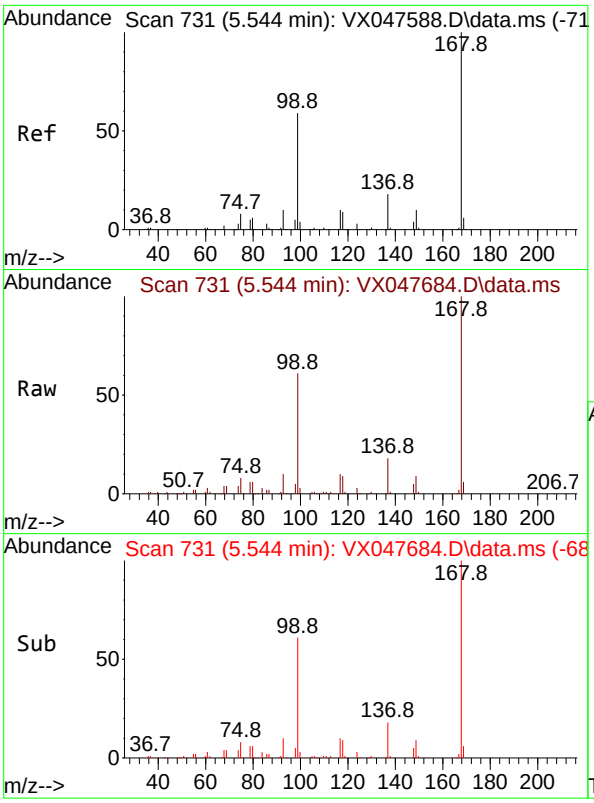
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047684.D
Acq On : 19 Sep 2025 18:01
Operator : JC/MD
Sample : Q3097-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20250911

Quant Time: Sep 20 00:36:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



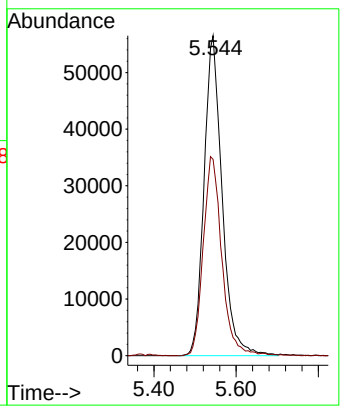


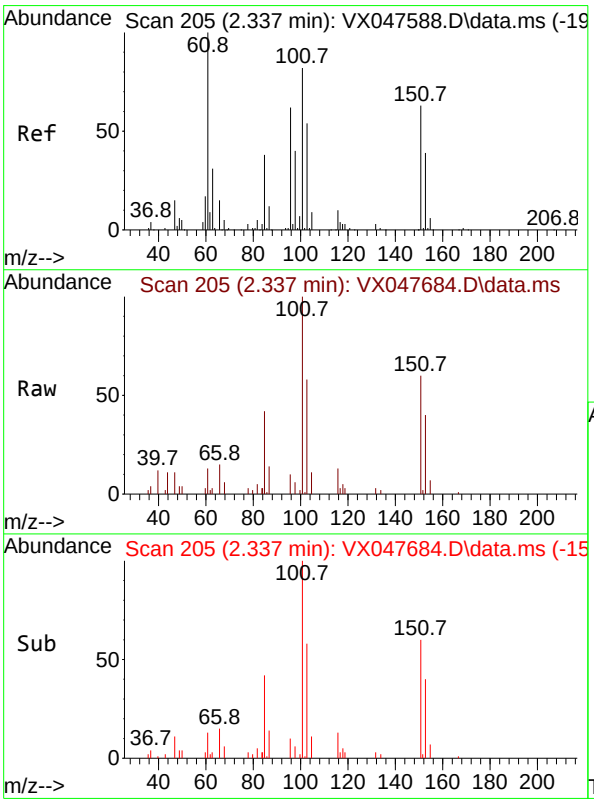
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20250911

Tgt Ion:168 Resp: 172337

Ion	Ratio	Lower	Upper
168	100		
99	61.4	48.8	73.2

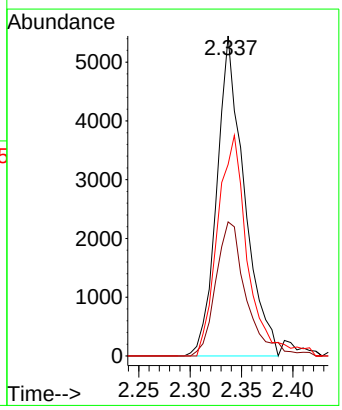


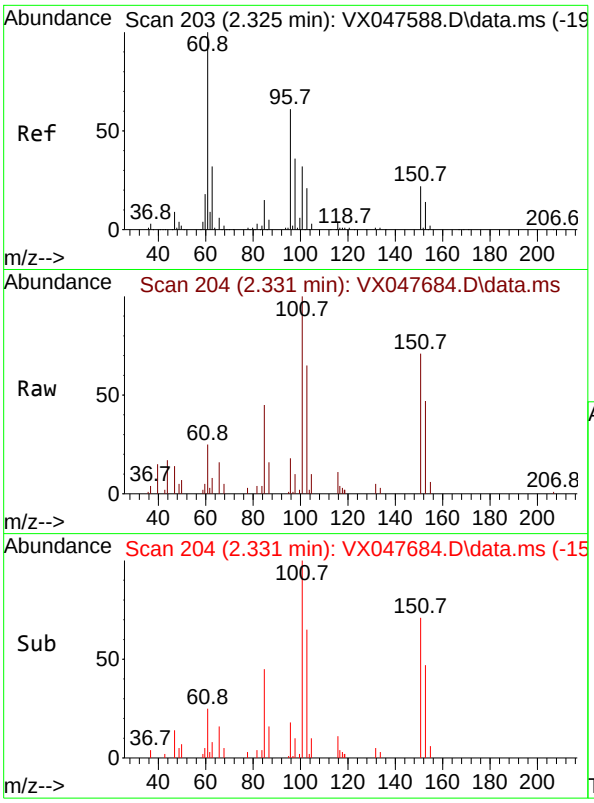


#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.062 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Tgt Ion:101 Resp: 10091

Ion	Ratio	Lower	Upper
101	100		
85	46.6	35.5	53.3
151	75.9	59.4	89.0



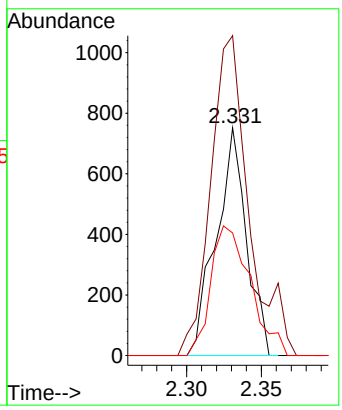


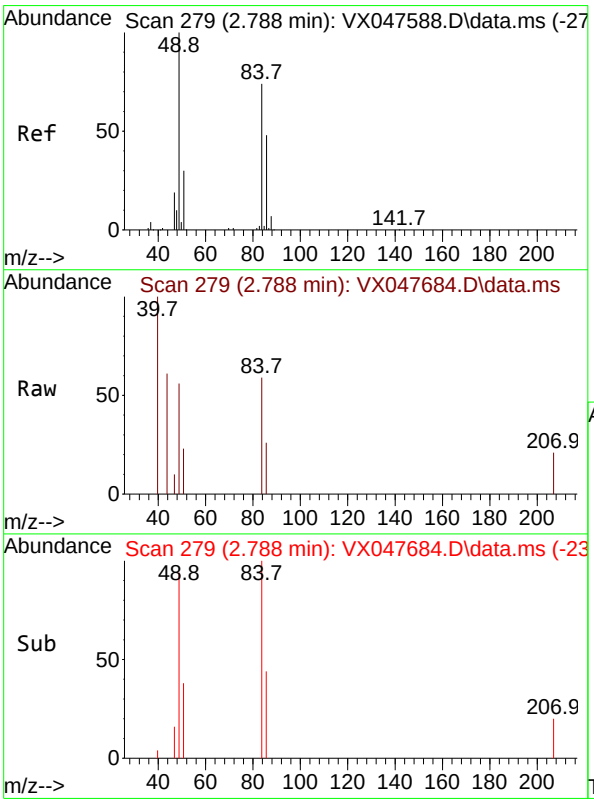
#12
1,1-Dichloroethene
Concen: 0.517 ug/l
RT: 2.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20250911

Tgt Ion: 96 Resp: 1059

Ion	Ratio	Lower	Upper
96	100		
61	140.4	131.0	196.6
98	53.9	47.7	71.5

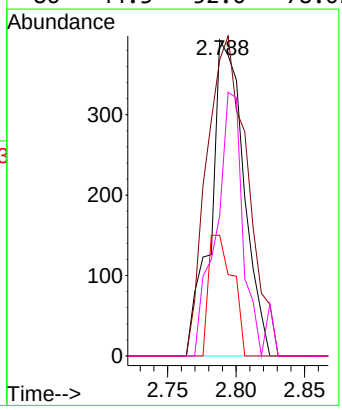


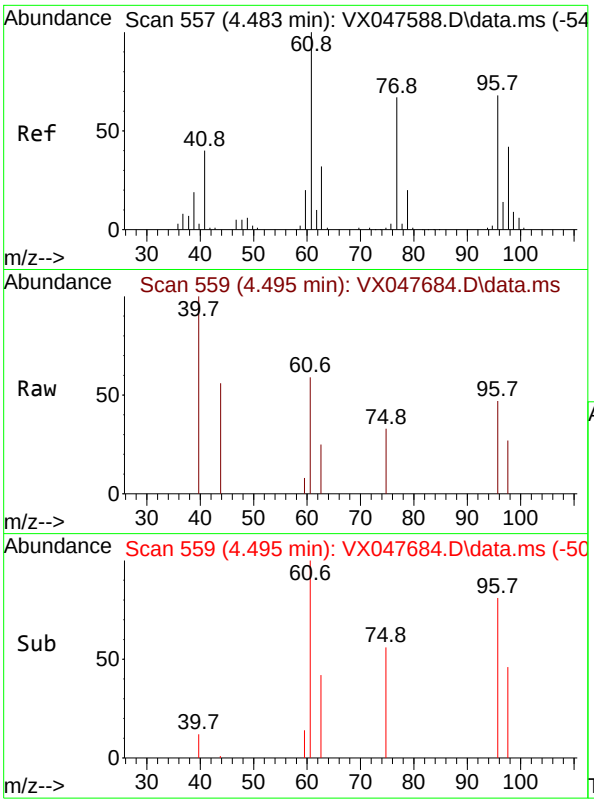


#20
Methylene Chloride
Concen: 0.260 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Tgt Ion: 84 Resp: 657

Ion	Ratio	Lower	Upper
84	100		
49	93.6	108.6	162.8#
51	38.2	32.6	48.8
86	44.3	52.0	78.0#



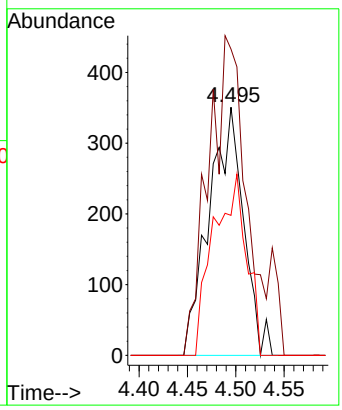


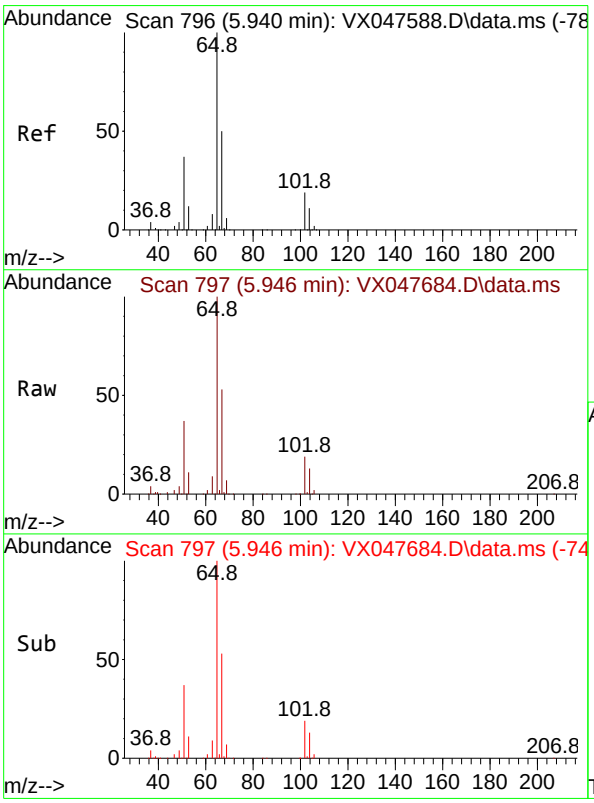
#27
cis-1,2-Dichloroethene
Concen: 0.322 ug/l
RT: 4.495 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20250911

Tgt Ion: 96 Resp: 870

Ion	Ratio	Lower	Upper
96	100		
61	139.0	0.0	303.2
98	70.0	0.0	127.8

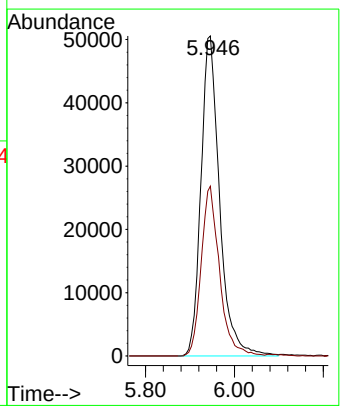


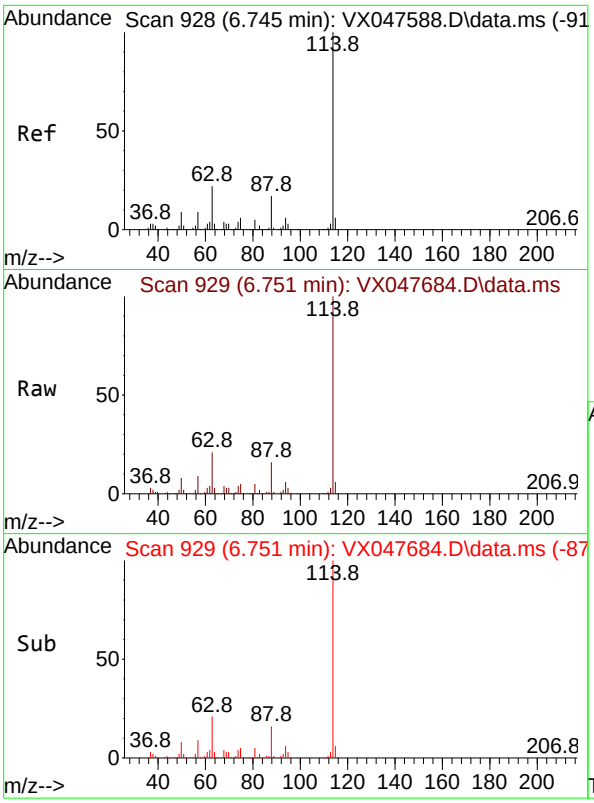


#33
1,2-Dichloroethane-d4
Concen: 53.850 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Tgt Ion: 65 Resp: 147719

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0



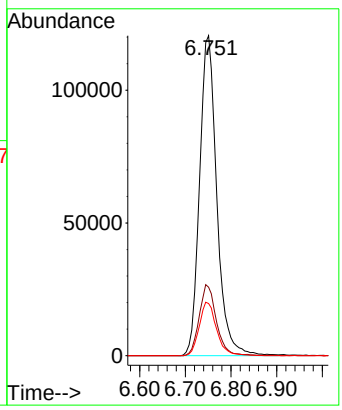


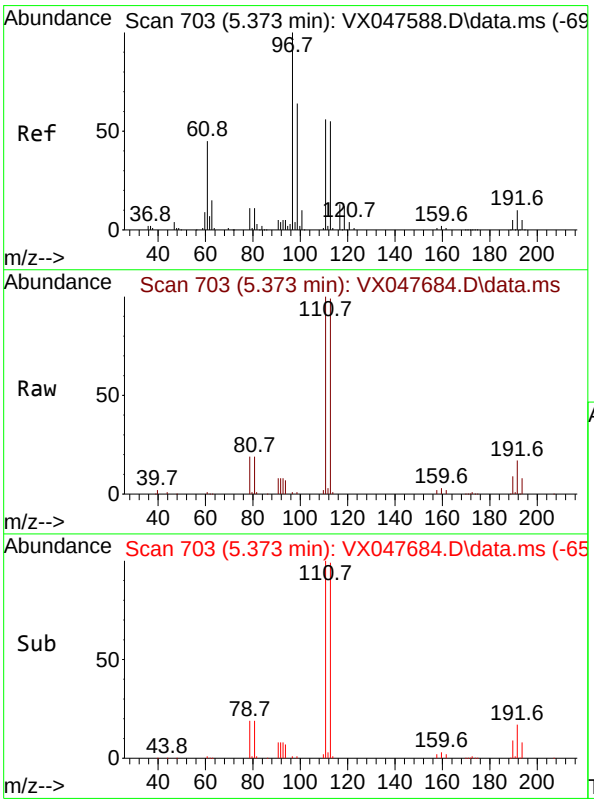
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20250911

Tgt Ion:114 Resp: 315489

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	44.0
88	16.3	0.0	34.2

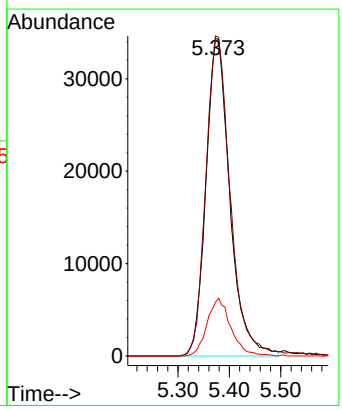


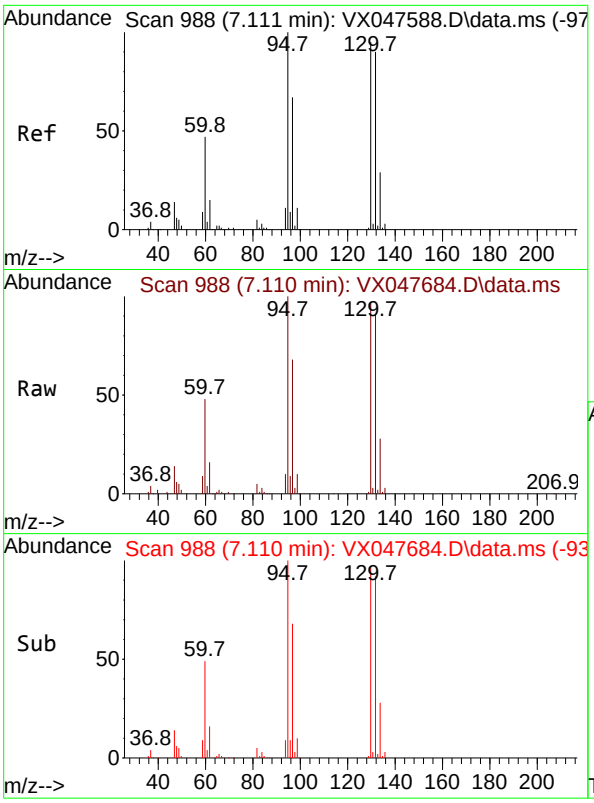


#35
Dibromofluoromethane
Concen: 52.593 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Tgt Ion:113 Resp: 111279

Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.9	121.3
192	18.0	14.2	21.4



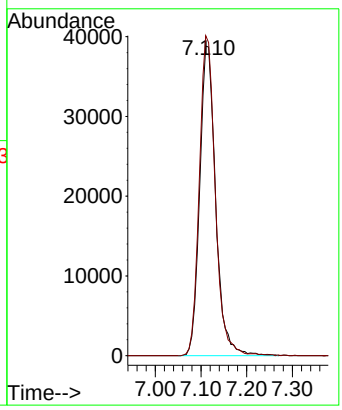


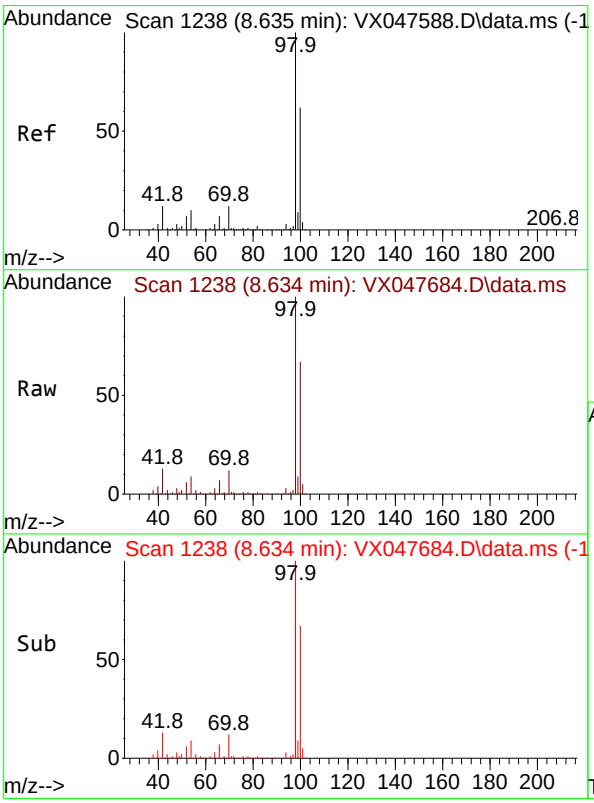
#44
Trichloroethene
Concen: 41.461 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20250911

Tgt Ion:130 Resp: 94127

Ion	Ratio	Lower	Upper
130	100		
95	103.3	0.0	210.8

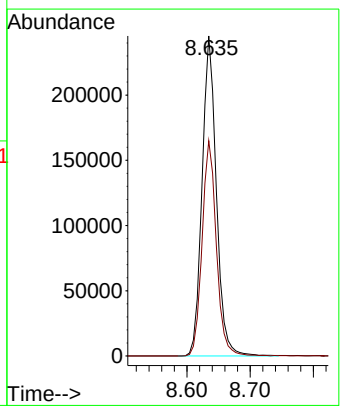


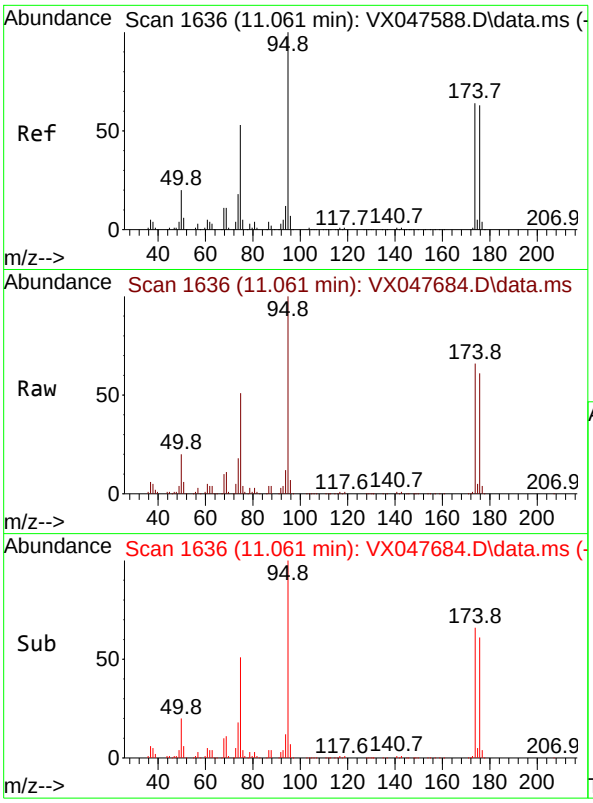


#50
Toluene-d8
Concen: 52.731 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Tgt Ion: 98 Resp: 386055

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4



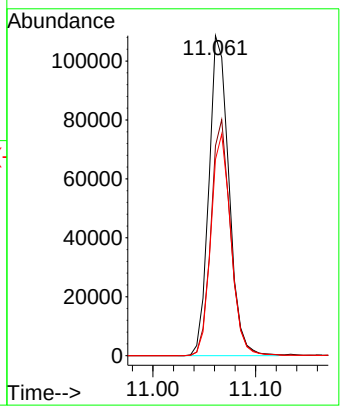


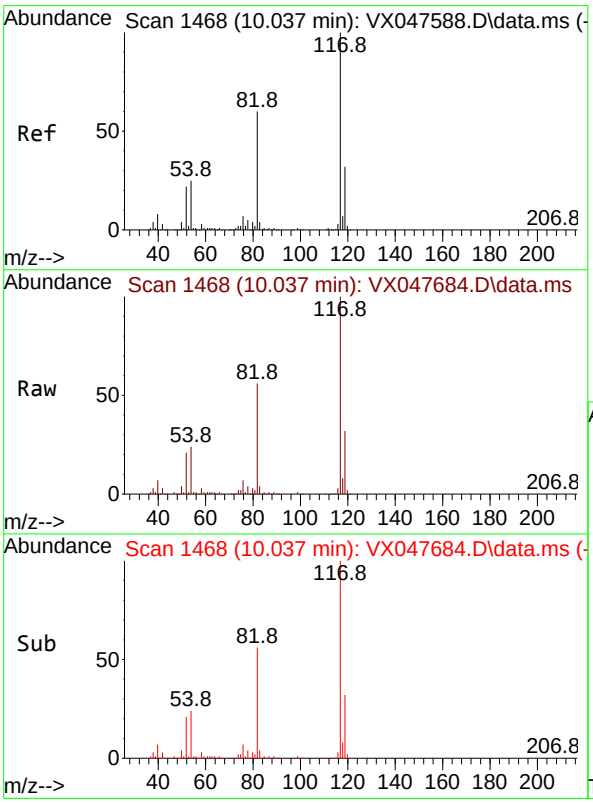
#62
4-Bromofluorobenzene
Concen: 52.781 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20250911

Tgt Ion: 95 Resp: 146653

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	141.6
176	69.4	0.0	138.4

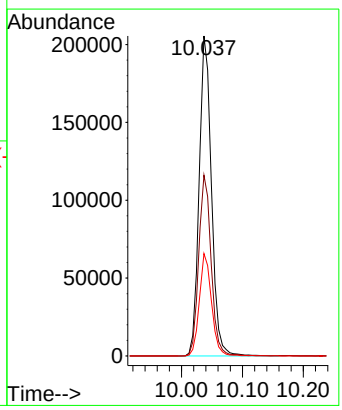


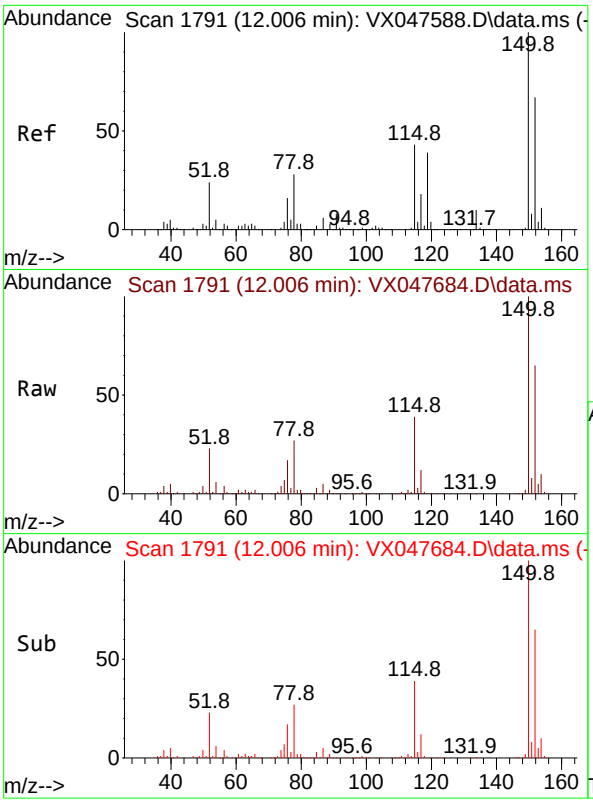


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Tgt Ion:117 Resp: 287627

Ion	Ratio	Lower	Upper
117	100		
82	56.5	47.8	71.6
119	32.0	25.2	37.8



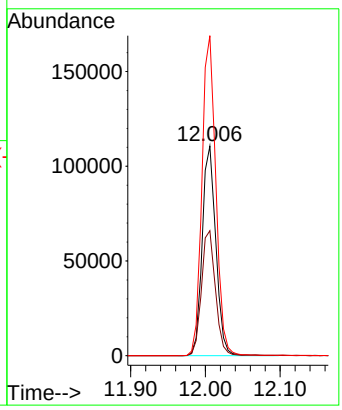


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047684.D
Acq: 19 Sep 2025 18:01

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20250911

Tgt Ion:152 Resp: 140501

Ion	Ratio	Lower	Upper
152	100		
115	61.1	44.9	134.5
150	155.3	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP05-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047685.D	1	09/19/25 18:22	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.55	J	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.58	J	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.40		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	140		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP05-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047685.D	1	09/19/25 18:22	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	9.00		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.9		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	47.9		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	181000	5.544				
540-36-3	1,4-Difluorobenzene	335000	6.745				
3114-55-4	Chlorobenzene-d5	299000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	147000	12.006				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP05-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047685.D	1	09/19/25 18:22	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047685.D
Acq On : 19 Sep 2025 18:22
Operator : JC/MD
Sample : Q3097-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20250911

Quant Time: Sep 20 00:37:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

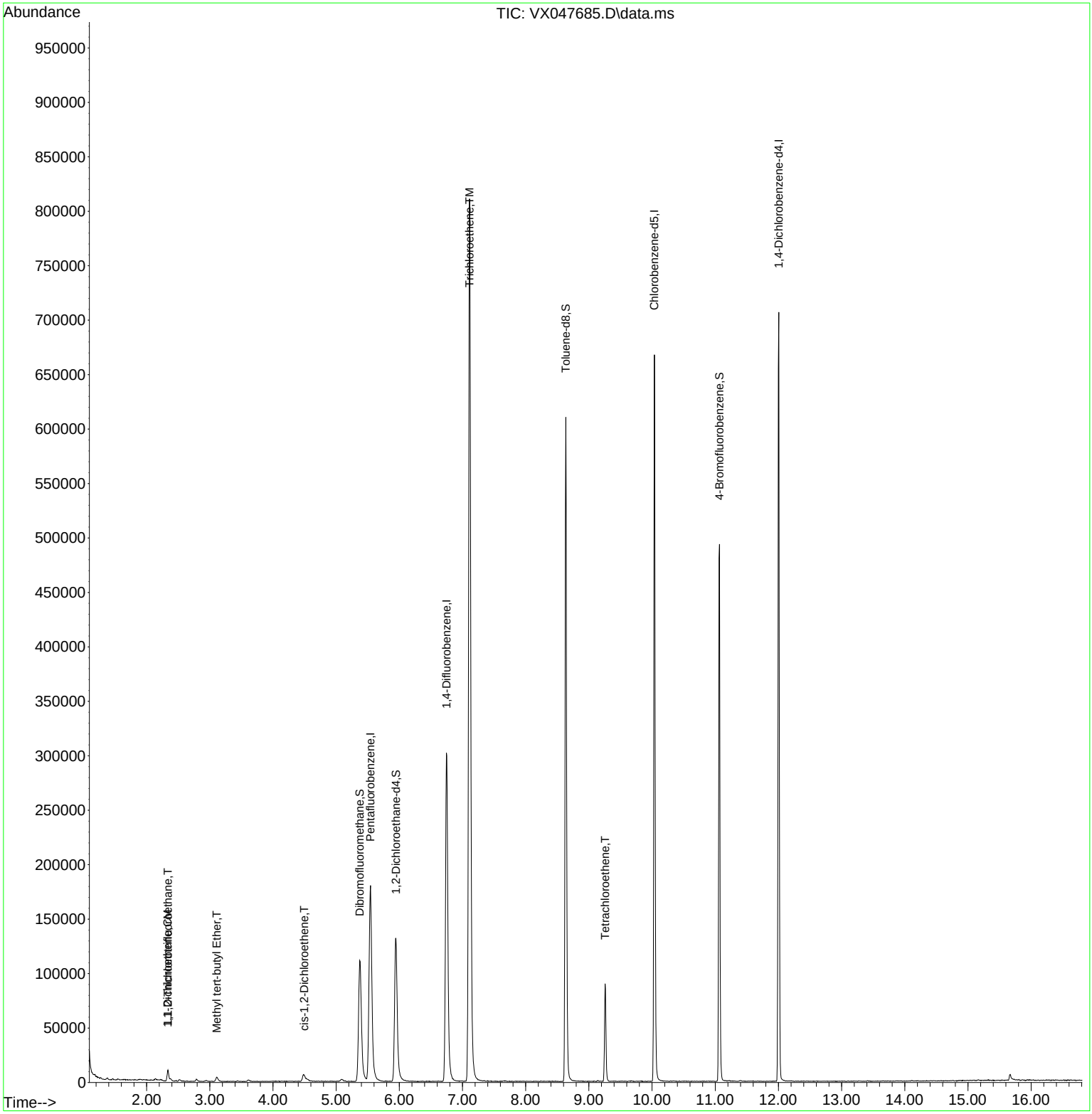
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	181407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	335366	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298999	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	146680	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	144009	49.873	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	99.740%		
35) Dibromofluoromethane	5.373	113	110247	49.017	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.040%		
50) Toluene-d8	8.634	98	372718	47.892	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	95.780%		
62) 4-Bromofluorobenzene	11.067	95	144318	48.862	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.720%		
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	3451	1.645	ug/l	92
12) 1,1-Dichloroethene	2.331	96	1183	0.549	ug/l	94
19) Methyl tert-butyl Ether	3.111	73	4591	0.584	ug/l	95
27) cis-1,2-Dichloroethene	4.495	96	4109	1.446	ug/l	97
44) Trichloroethene	7.110	130	337410	139.813	ug/l	99
64) Tetrachloroethene	9.256	164	17507	8.982	ug/l	96

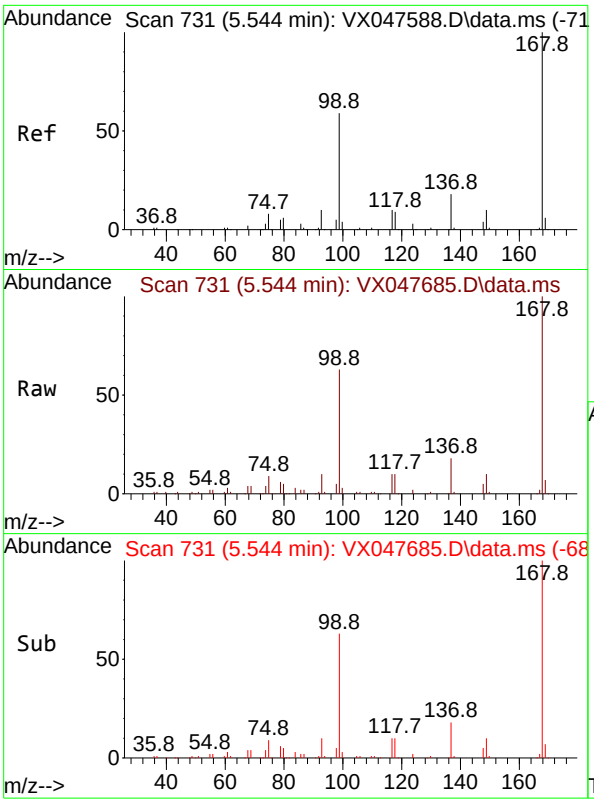
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047685.D
Acq On : 19 Sep 2025 18:22
Operator : JC/MD
Sample : Q3097-13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20250911

Quant Time: Sep 20 00:37:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



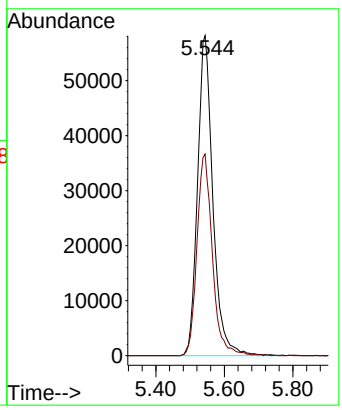


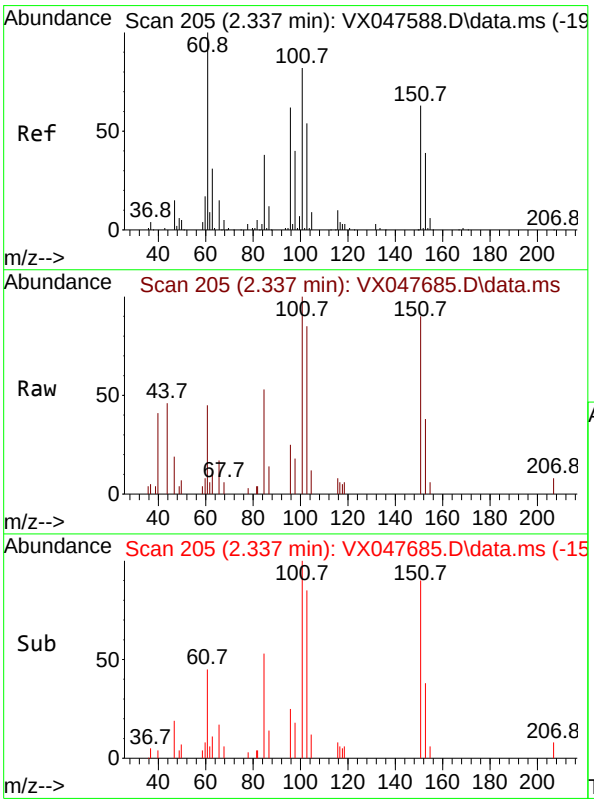
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20250911

Tgt Ion:168 Resp: 181407

Ion	Ratio	Lower	Upper
168	100		
99	63.0	48.8	73.2

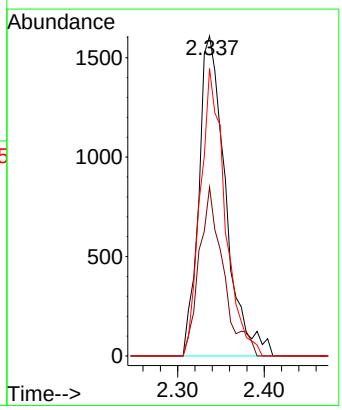


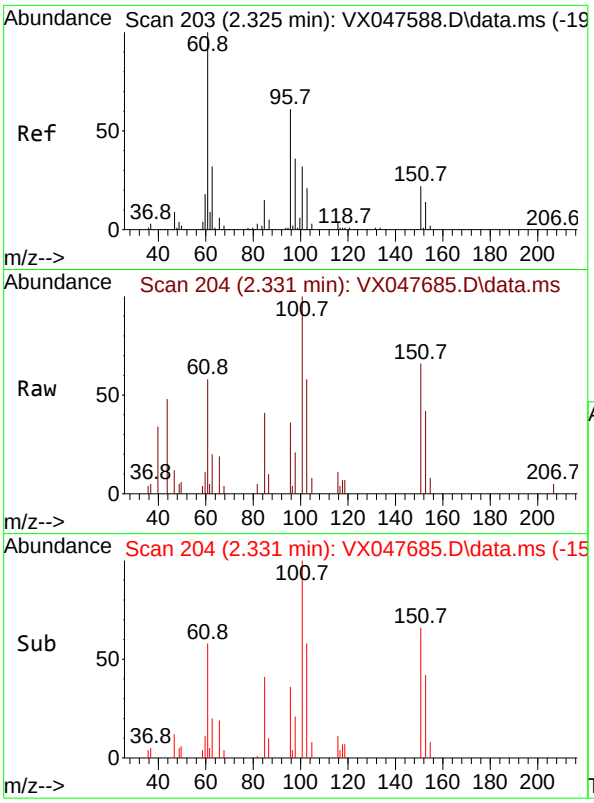


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.645 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Tgt Ion:101 Resp: 3451

Ion	Ratio	Lower	Upper
101	100		
85	47.7	35.5	53.3
151	82.8	59.4	89.0



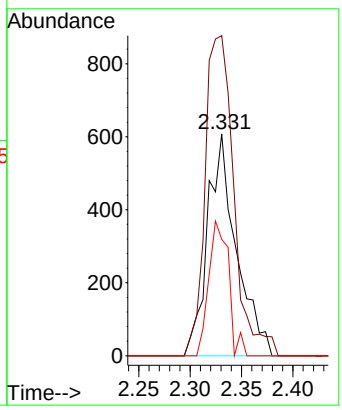


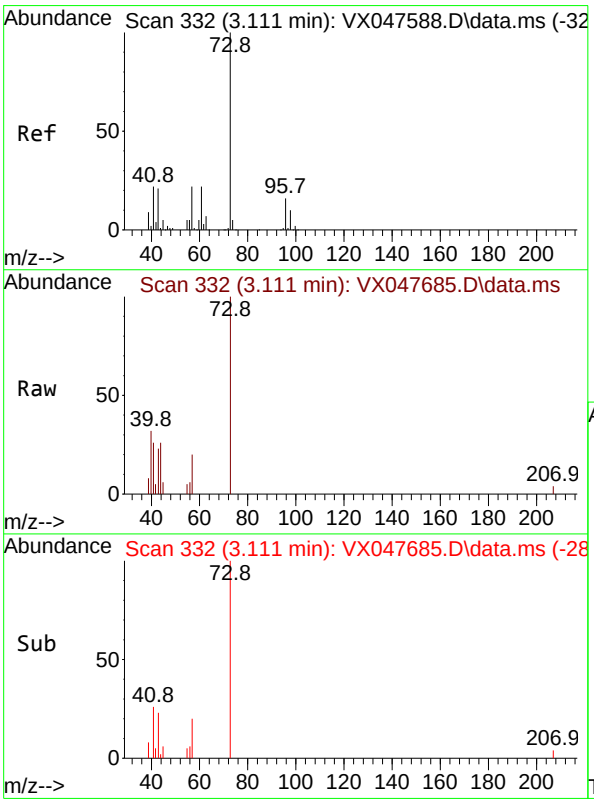
#12
1,1-Dichloroethene
Concen: 0.549 ug/l
RT: 2.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20250911

Tgt Ion: 96 Resp: 1183

Ion	Ratio	Lower	Upper
96	100		
61	157.6	131.0	196.6
98	52.5	47.7	71.5

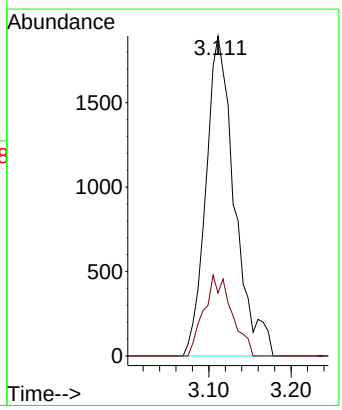


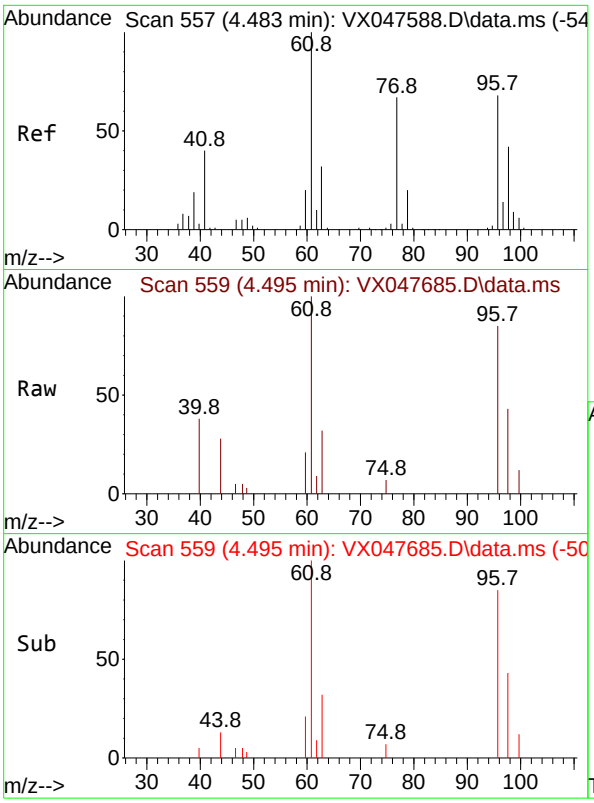


#19
Methyl tert-butyl Ether
Concen: 0.584 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Tgt Ion: 73 Resp: 4591

Ion	Ratio	Lower	Upper
73	100		
57	19.6	17.4	26.2



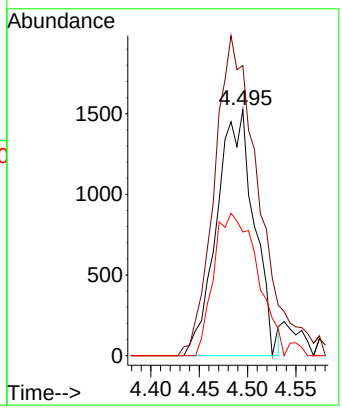


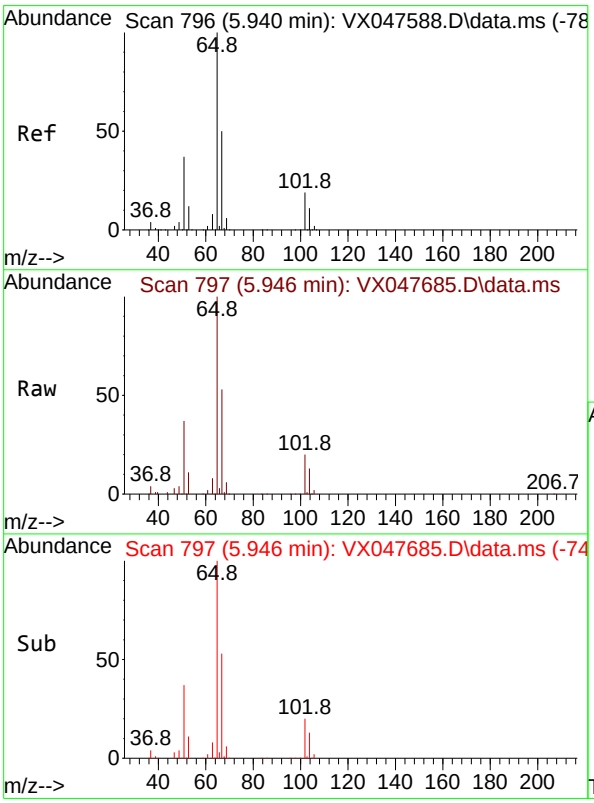
#27
cis-1,2-Dichloroethene
Concen: 1.446 ug/l
RT: 4.495 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20250911

Tgt Ion: 96 Resp: 4109

Ion	Ratio	Lower	Upper
96	100		
61	155.0	0.0	303.2
98	67.4	0.0	127.8

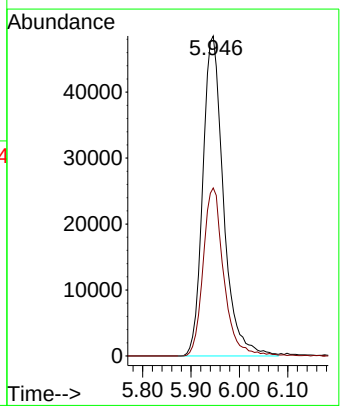


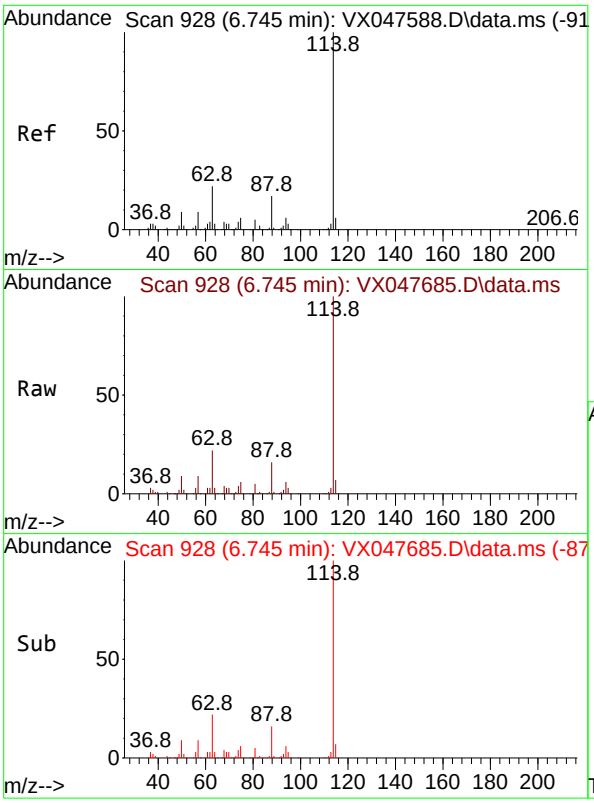


#33
1,2-Dichloroethane-d4
Concen: 49.873 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Tgt Ion: 65 Resp: 144009

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	103.0



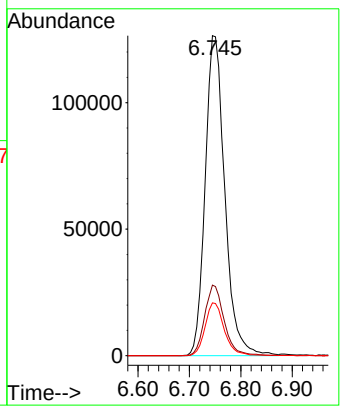


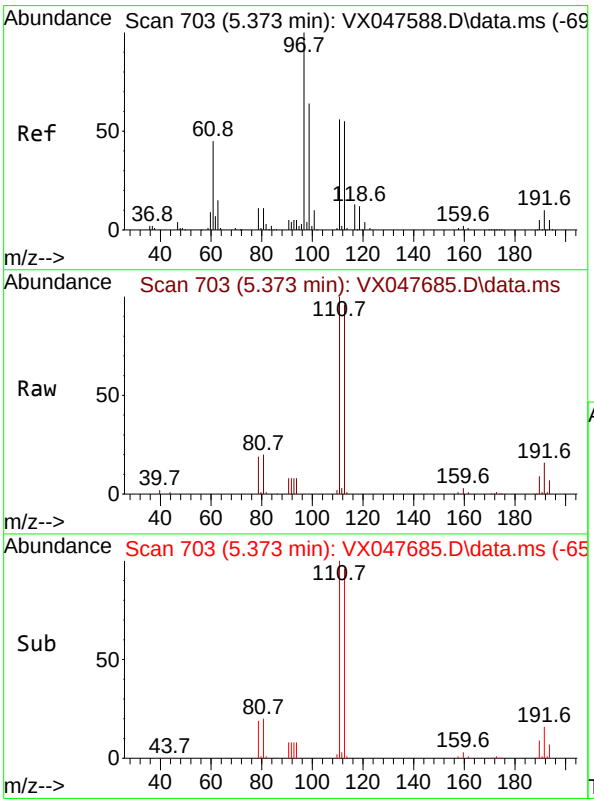
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20250911

Tgt Ion:114 Resp: 335366

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.0
88	16.5	0.0	34.2

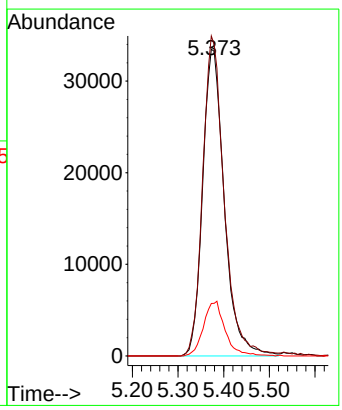


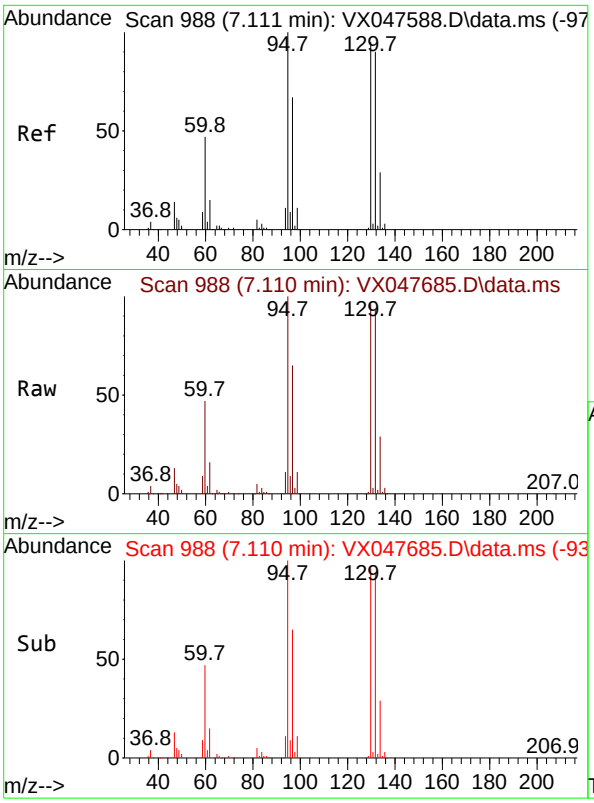


#35
Dibromofluoromethane
Concen: 49.017 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Tgt Ion:113 Resp: 110247

Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.9	121.3
192	17.7	14.2	21.4



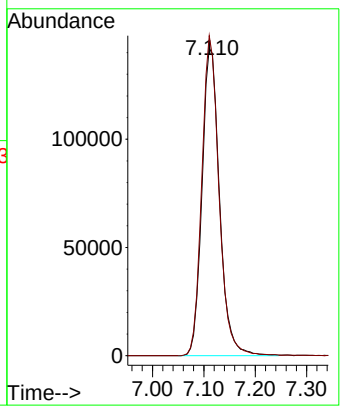


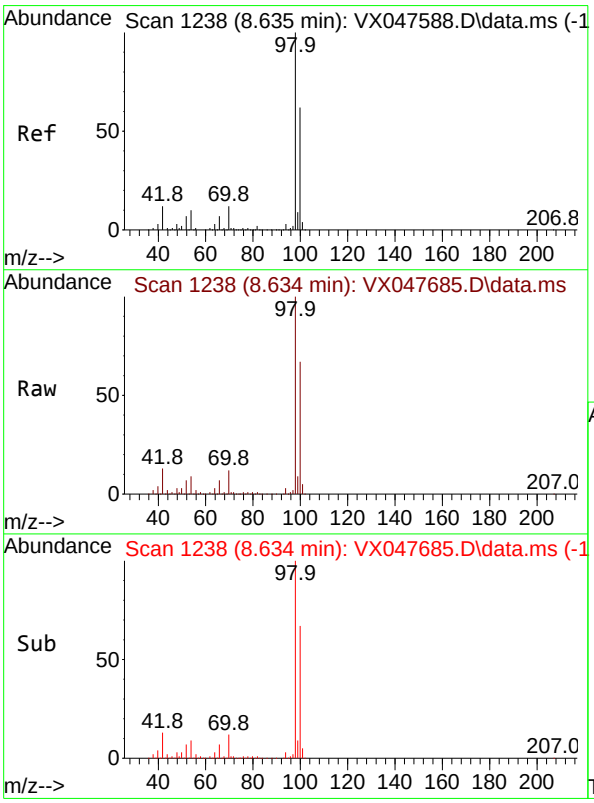
#44
Trichloroethene
Concen: 139.813 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20250911

Tgt Ion:130 Resp: 337410

Ion	Ratio	Lower	Upper
130	100		
95	104.1	0.0	210.8

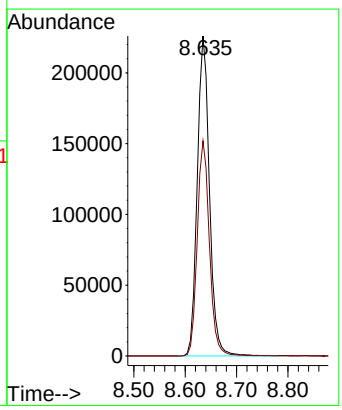


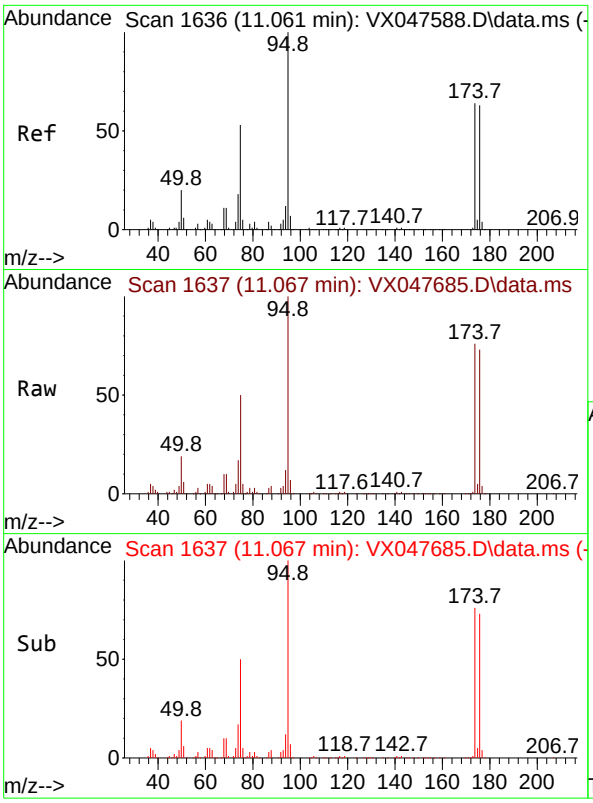


#50
Toluene-d8
Concen: 47.892 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Tgt Ion: 98 Resp: 372718

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4



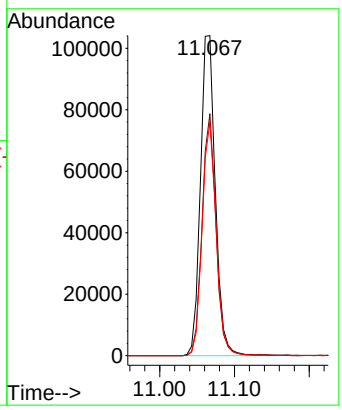


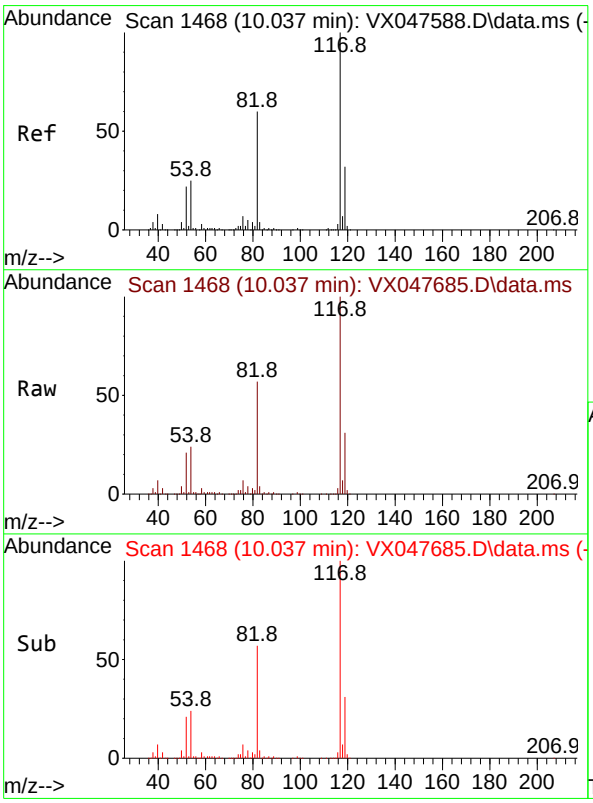
#62
4-Bromofluorobenzene
Concen: 48.862 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20250911

Tgt Ion: 95 Resp: 144318

Ion	Ratio	Lower	Upper
95	100		
174	70.6	0.0	141.6
176	68.9	0.0	138.4

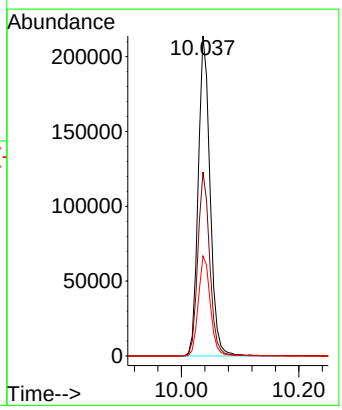


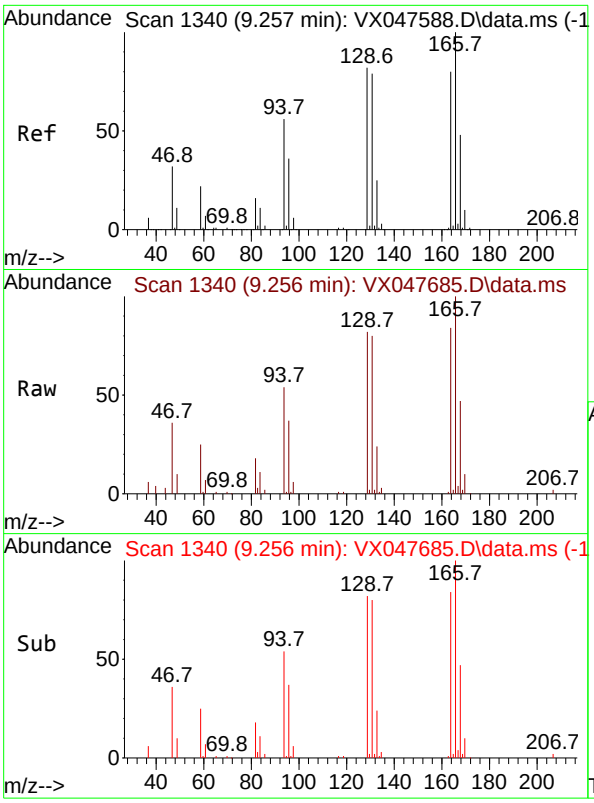


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Tgt Ion:117 Resp: 298999

Ion	Ratio	Lower	Upper
117	100		
82	57.4	47.8	71.6
119	31.3	25.2	37.8



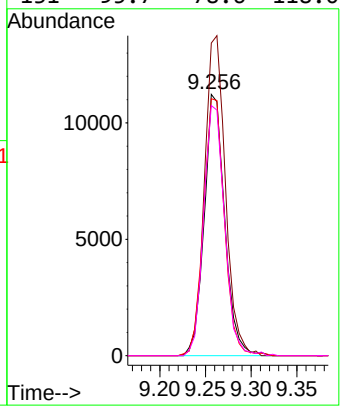


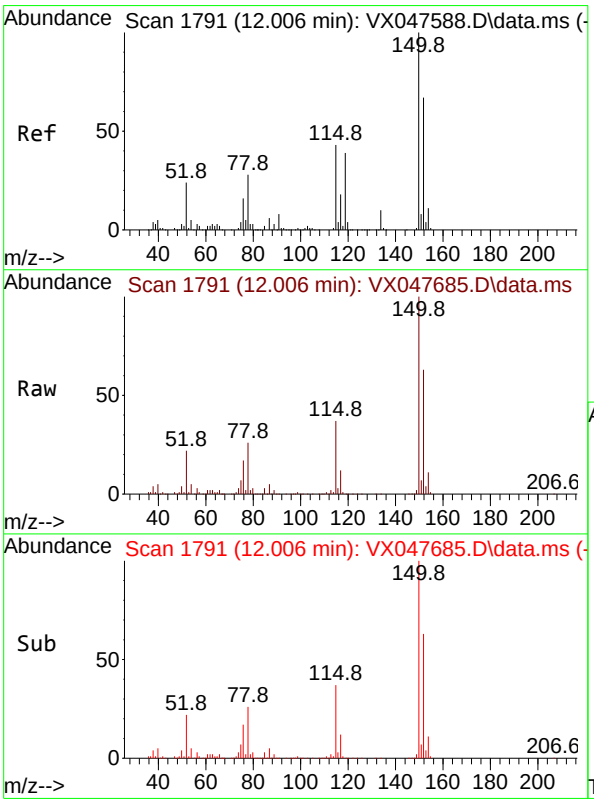
#64
Tetrachloroethene
Concen: 8.982 ug/l
RT: 9.256 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Instrument :
MSVOA_X
ClientSampleId :
DUP05-20250911

Tgt Ion:164 Resp: 17507

Ion	Ratio	Lower	Upper
164	100		
166	119.7	100.2	150.2
129	98.3	81.8	122.6
131	95.7	78.6	118.0

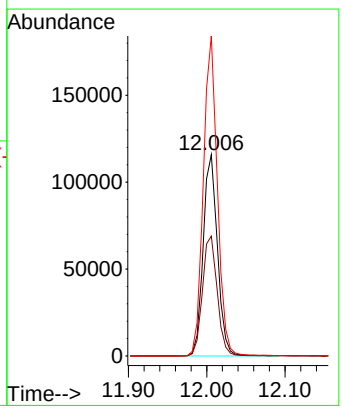




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047685.D
Acq: 19 Sep 2025 18:22

Tgt Ion:152 Resp: 146680

Ion	Ratio	Lower	Upper
152	100		
115	61.5	44.9	134.5
150	156.2	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-14	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047686.D	1	09/19/25 18:42	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	13.4		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	3.60		0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	2.30		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.63	J	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	1.50		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	1200	E	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-14	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047686.D	1	09/19/25 18:42	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	1.00		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	1.60		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.9		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	45.5		89 - 112		91%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	177000	5.544				
540-36-3	1,4-Difluorobenzene	326000	6.751				
3114-55-4	Chlorobenzene-d5	280000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	135000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-14	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047686.D	1	09/19/25 18:42	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047686.D
Acq On : 19 Sep 2025 18:42
Operator : JC/MD
Sample : Q3097-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Quant Time: Sep 20 00:37:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

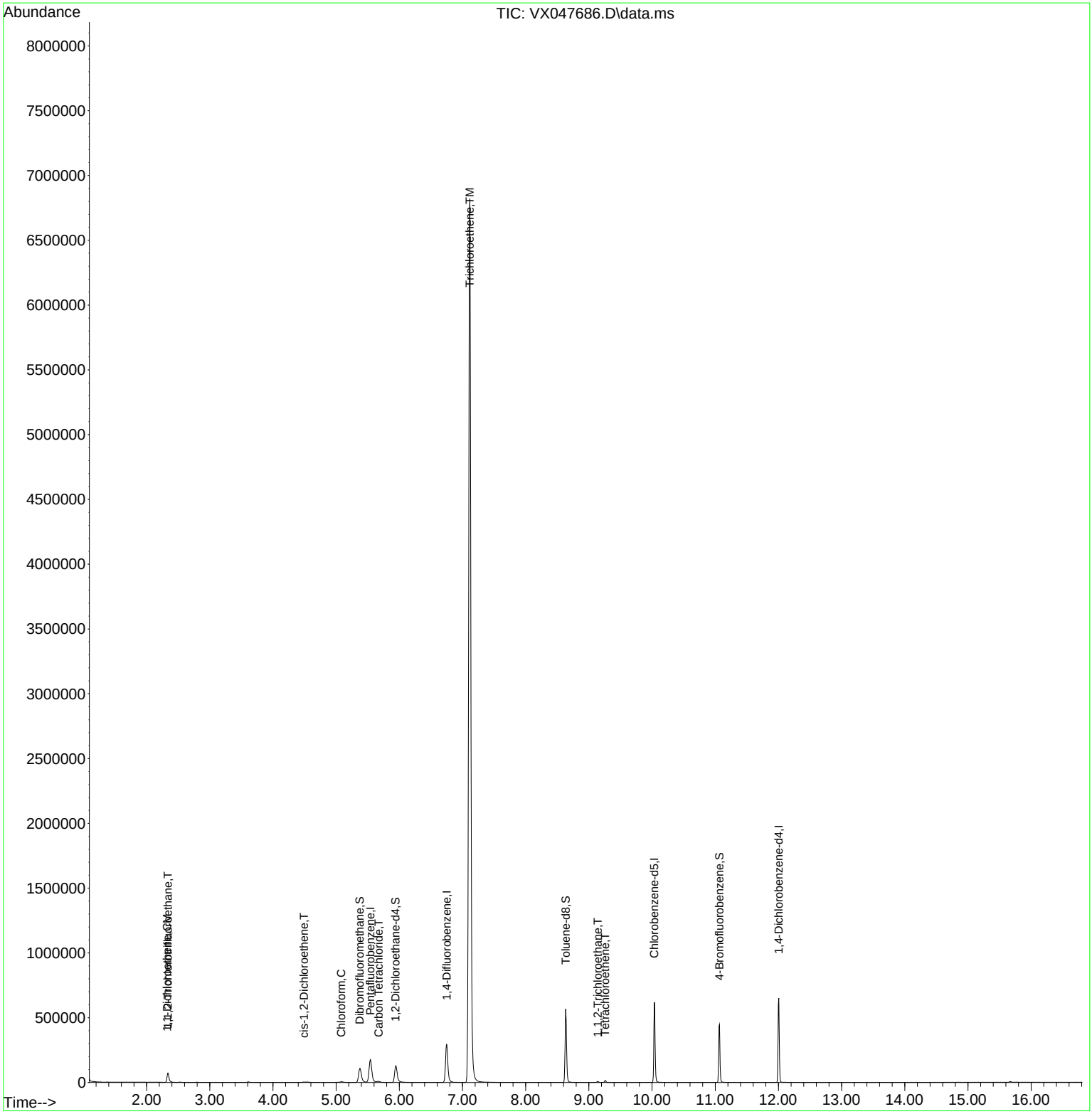
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	177032	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.751	114	325665	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	279784	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	134519	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.940	65	140568	49.884	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	99.760%			
35) Dibromofluoromethane	5.373	113	106323	48.681	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.360%			
50) Toluene-d8	8.635	98	344065	45.527	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	91.060%#			
62) 4-Bromofluorobenzene	11.067	95	132736	46.279	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.560%			
Target Compounds							Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	27416	13.389	ug/l		99
12) 1,1-Dichloroethene	2.325	96	7521	3.576	ug/l		96
27) cis-1,2-Dichloroethene	4.489	96	1759	0.634	ug/l		98
30) Chloroform	5.080	83	6861	1.519	ug/l		99
38) Carbon Tetrachloride	5.672	117	7859	2.266	ug/l		94
44) Trichloroethene	7.117	130	2881000	1229.366	ug/l		96
55) 1,1,2-Trichloroethane	9.141	97	2411	1.047	ug/l	#	82
64) Tetrachloroethene	9.256	164	2930	1.606	ug/l	#	93

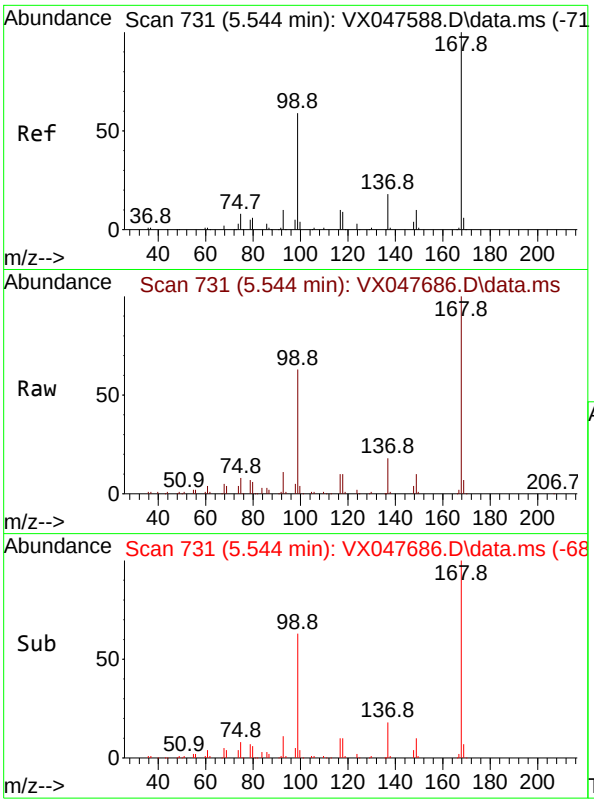
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047686.D
Acq On : 19 Sep 2025 18:42
Operator : JC/MD
Sample : Q3097-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Quant Time: Sep 20 00:37:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



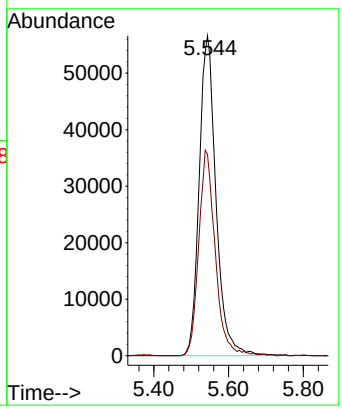


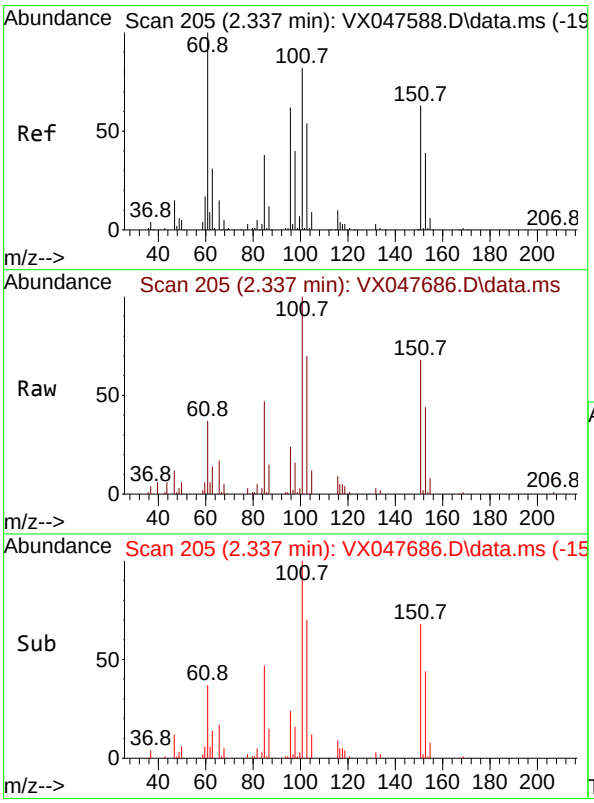
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Tgt Ion:168 Resp: 177032

Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2

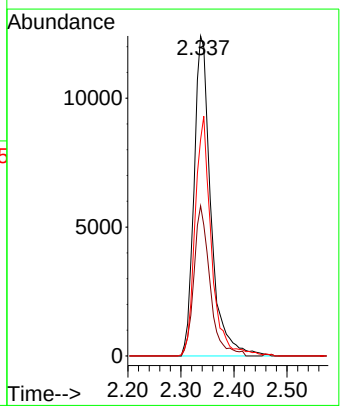


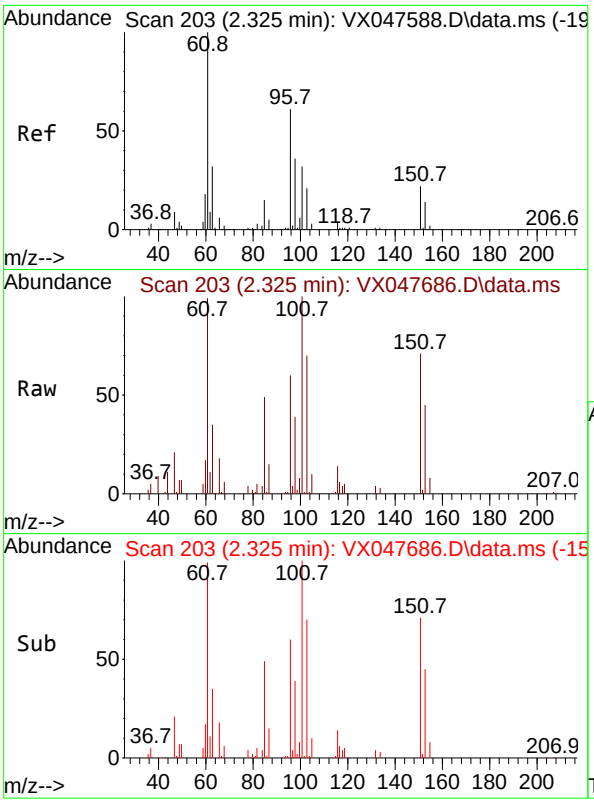


#9
1,1,2-Trichlorotrifluoroethane
Concen: 13.389 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion:101 Resp: 27416

Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.5	53.3
151	72.4	59.4	89.0



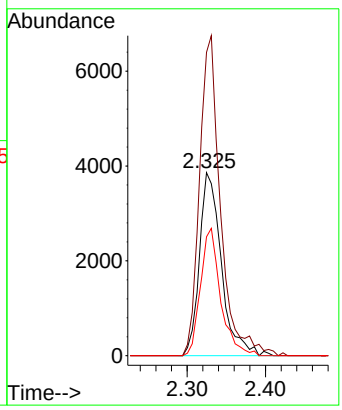


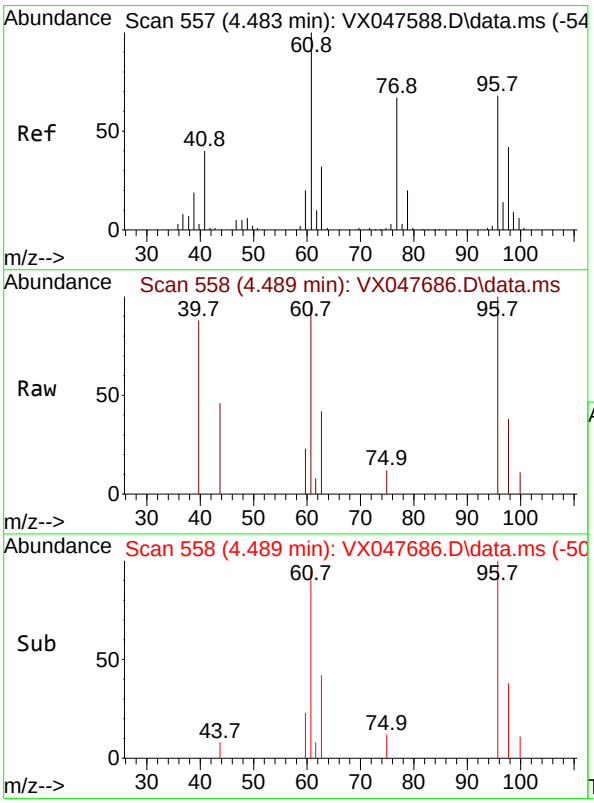
#12
1,1-Dichloroethene
Concen: 3.576 ug/l
RT: 2.325 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Tgt Ion: 96 Resp: 7521

Ion	Ratio	Lower	Upper
96	100		
61	165.7	131.0	196.6
98	68.0	47.7	71.5

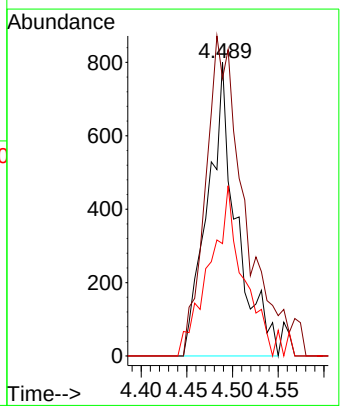


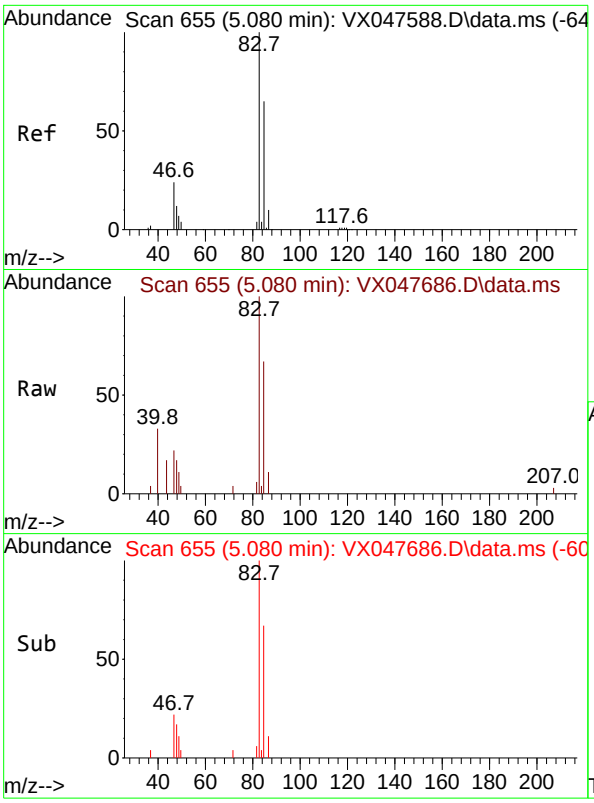


#27
cis-1,2-Dichloroethene
Concen: 0.634 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 96 Resp: 1759

Ion	Ratio	Lower	Upper
96	100		
61	149.7	0.0	303.2
98	66.9	0.0	127.8



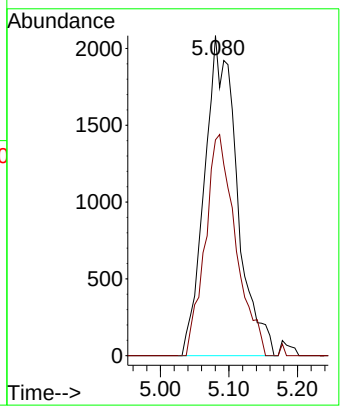


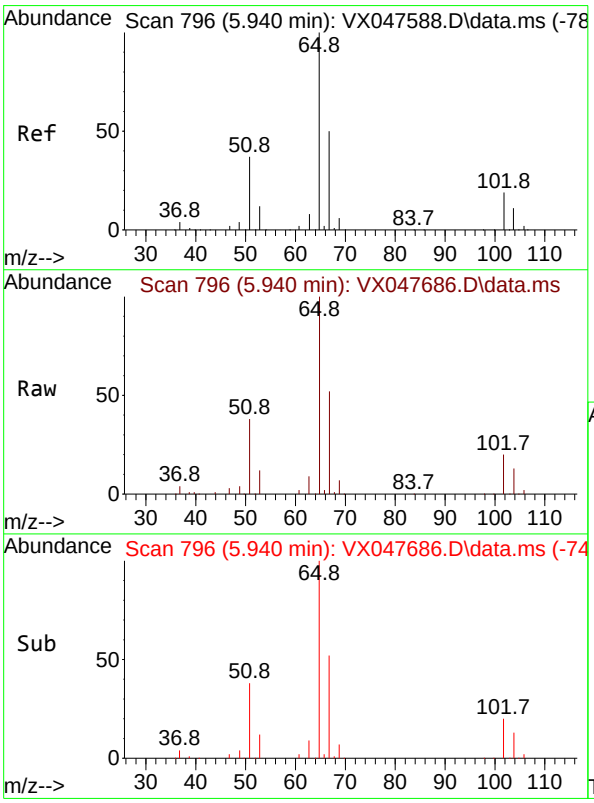
#30
Chloroform
Concen: 1.519 ug/l
RT: 5.080 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Tgt Ion: 83 Resp: 6861

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.6

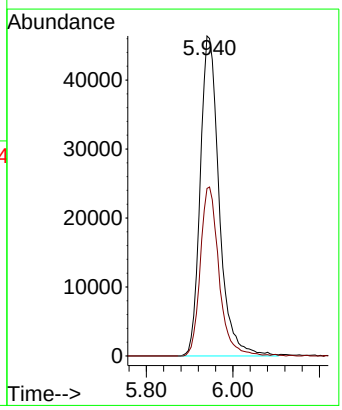


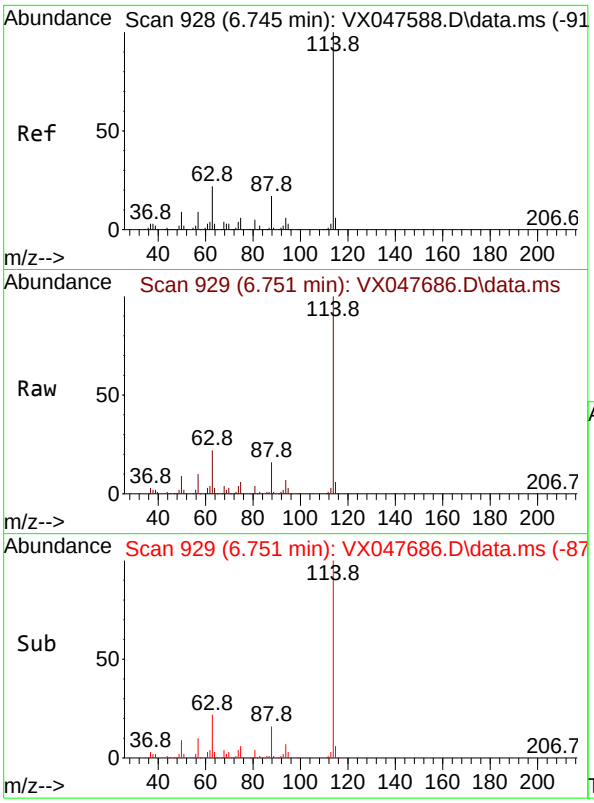


#33
1,2-Dichloroethane-d4
Concen: 49.884 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 65 Resp: 140568

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	103.0



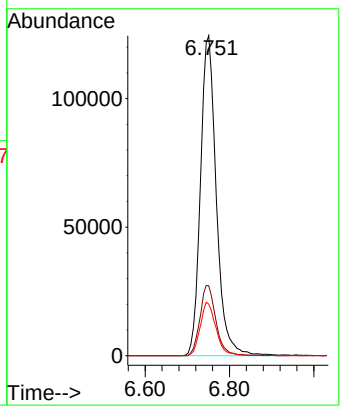


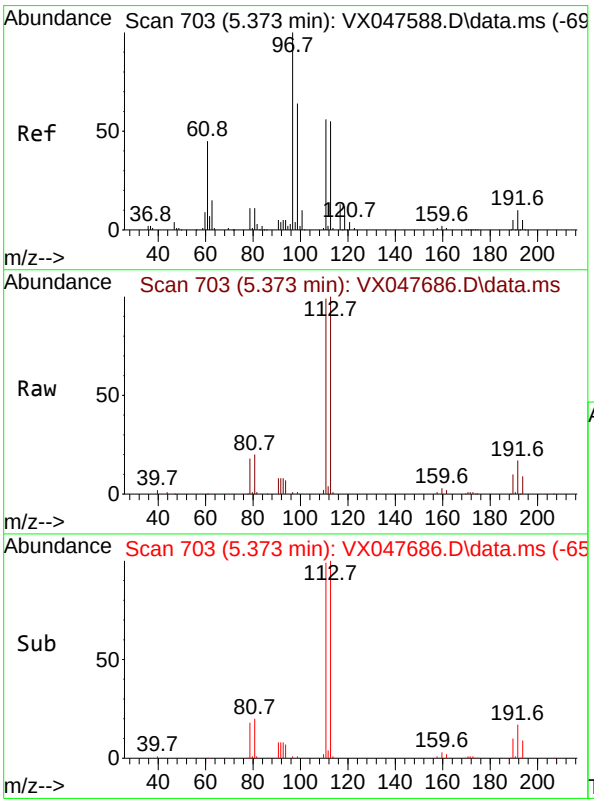
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Tgt Ion:114 Resp: 325665

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.0
88	16.1	0.0	34.2

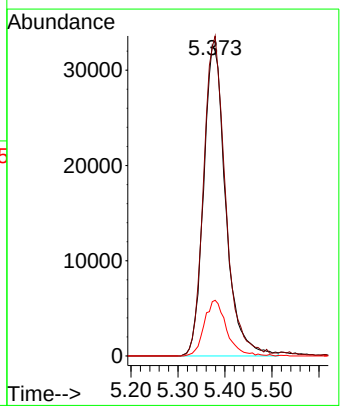


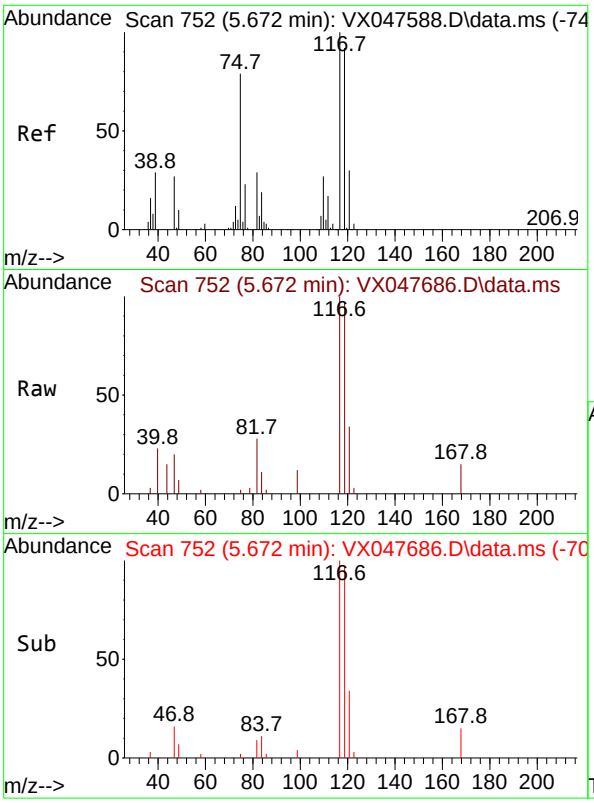


#35
Dibromofluoromethane
Concen: 48.681 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion:113 Resp: 106323

Ion	Ratio	Lower	Upper
113	100		
111	102.1	80.9	121.3
192	18.1	14.2	21.4



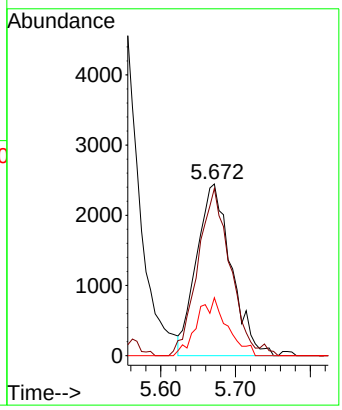


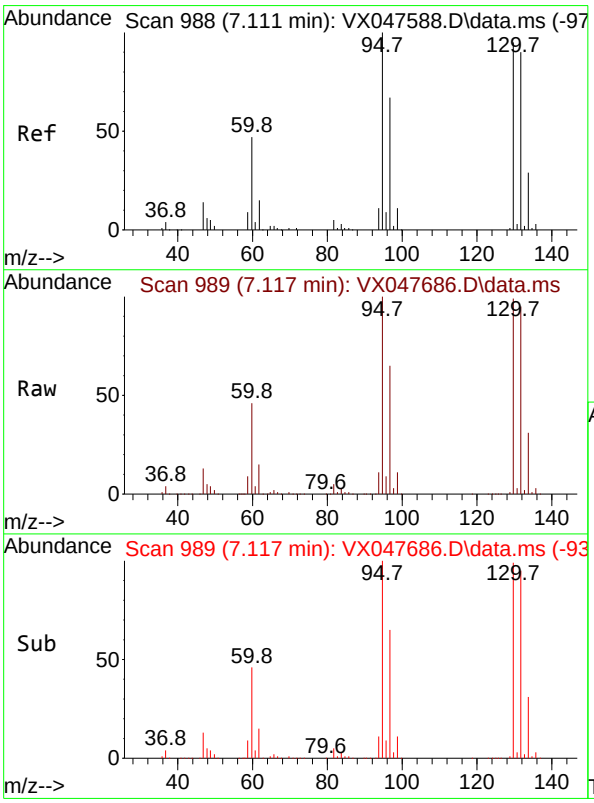
#38
Carbon Tetrachloride
Concen: 2.266 ug/l
RT: 5.672 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Tgt Ion:117 Resp: 7859

Ion	Ratio	Lower	Upper
117	100		
119	97.4	73.4	110.2
121	33.8	23.8	35.6

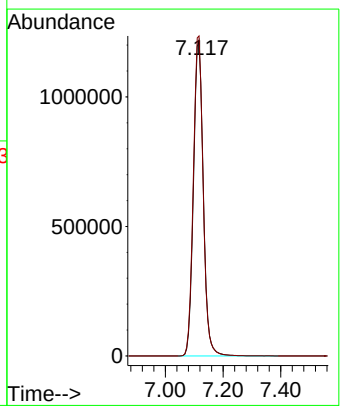


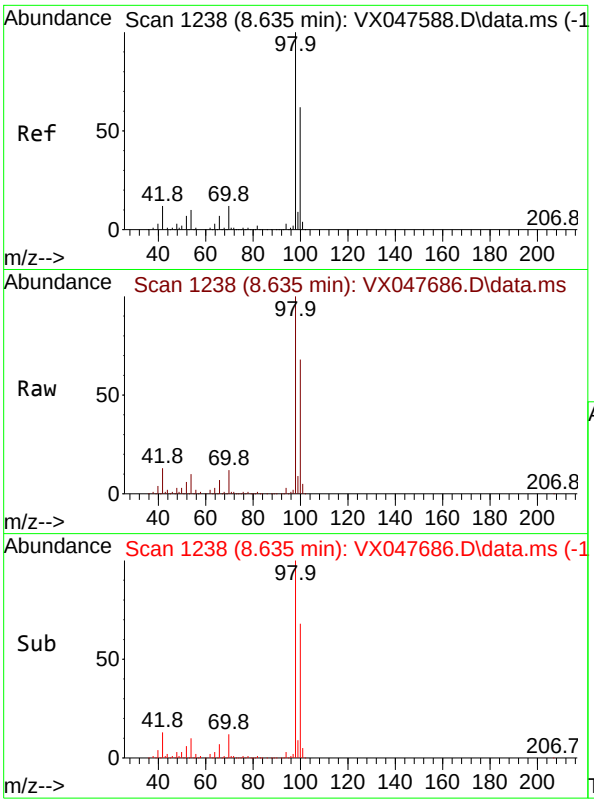


#44
Trichloroethene
Concen: 1229.366 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion:130 Resp: 2881000

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	210.8



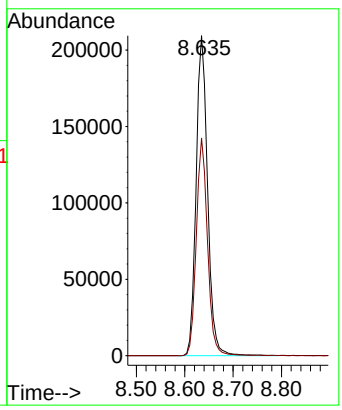


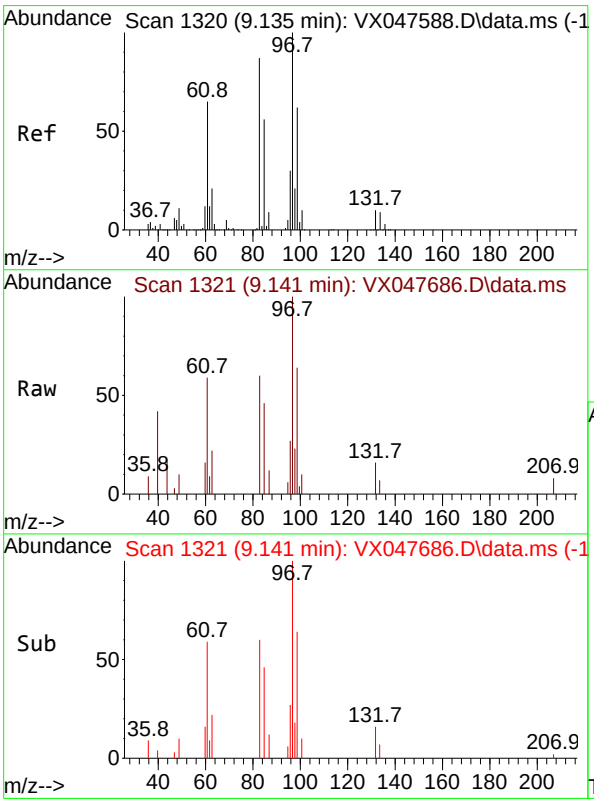
#50
Toluene-d8
Concen: 45.527 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Tgt Ion: 98 Resp: 344065

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.0	79.4

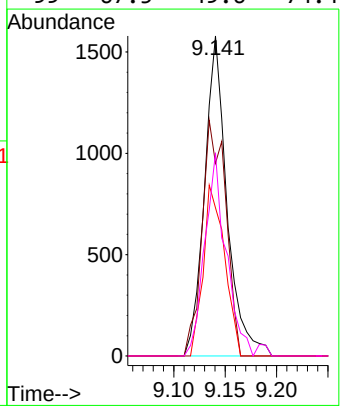


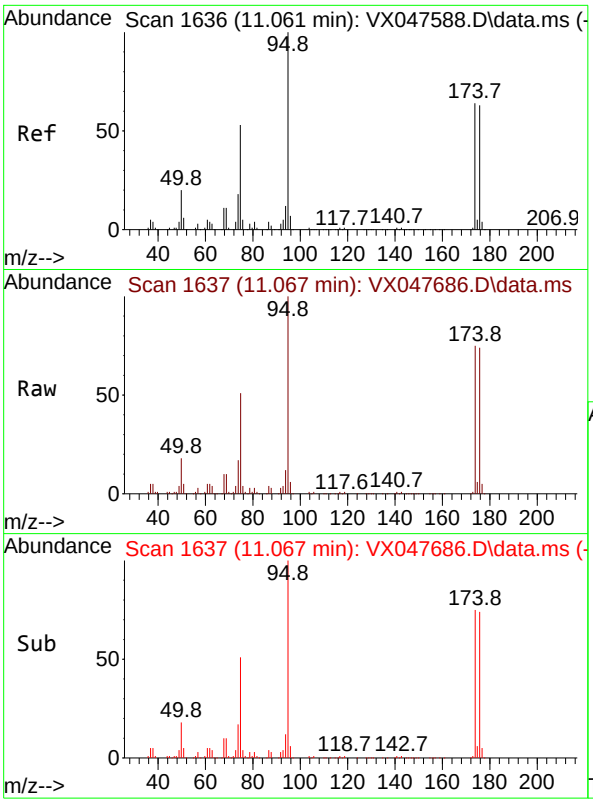


#55
1,1,2-Trichloroethane
Concen: 1.047 ug/l
RT: 9.141 min Scan# 1321
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 97 Resp: 2411

Ion	Ratio	Lower	Upper
97	100		
83	60.2	69.6	104.4#
85	46.3	45.0	67.6
99	67.5	49.6	74.4



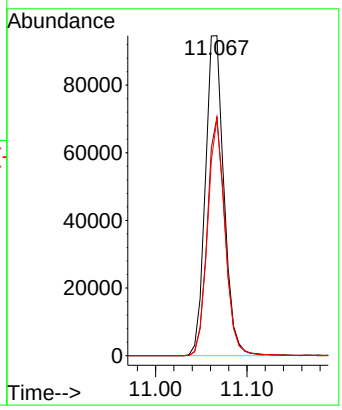


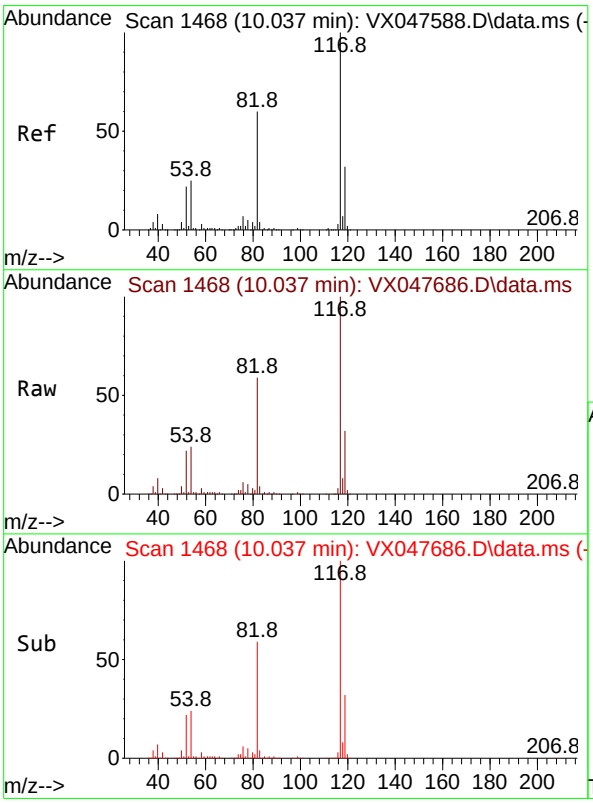
#62
4-Bromofluorobenzene
Concen: 46.279 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Tgt Ion: 95 Resp: 132736

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.6
176	69.5	0.0	138.4

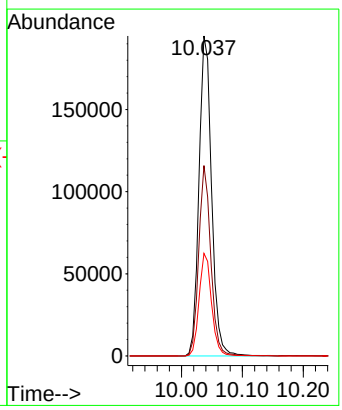


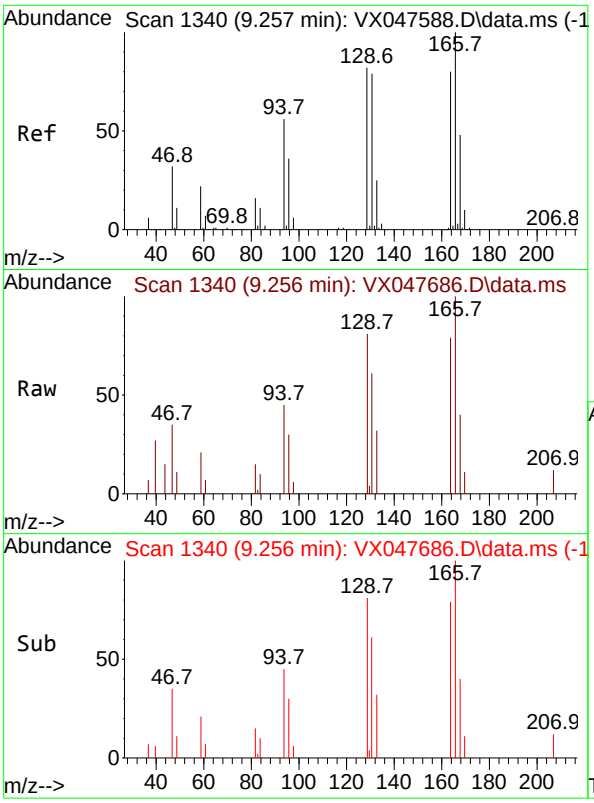


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion:117 Resp: 279784

Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.8	71.6
119	32.1	25.2	37.8



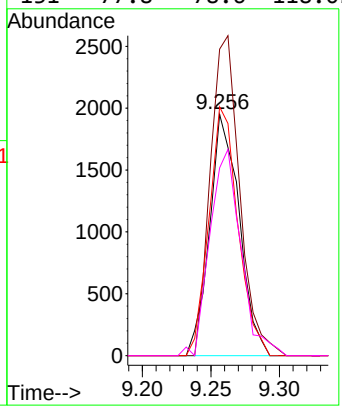


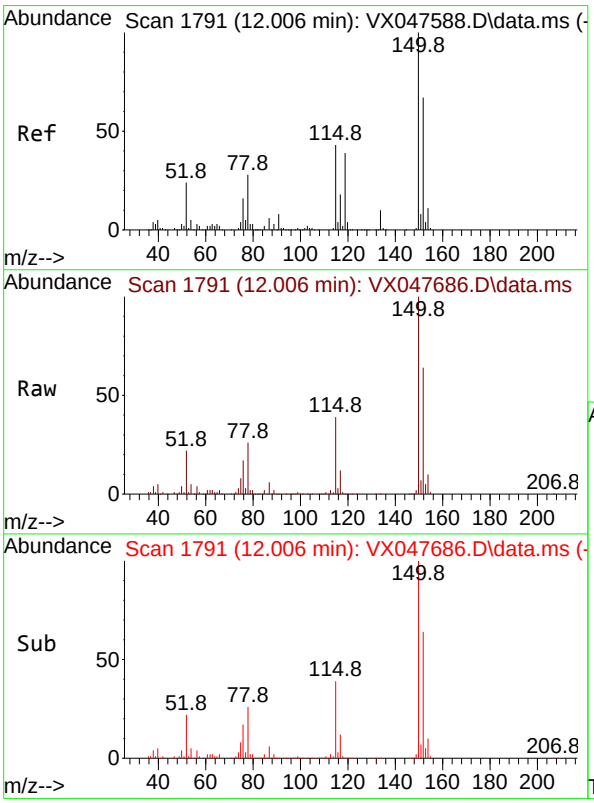
#64
Tetrachloroethene
Concen: 1.606 ug/l
RT: 9.256 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Tgt Ion:164 Resp: 2930

Ion	Ratio	Lower	Upper
164	100		
166	127.1	100.2	150.2
129	103.1	81.8	122.6
131	77.8	78.6	118.0#

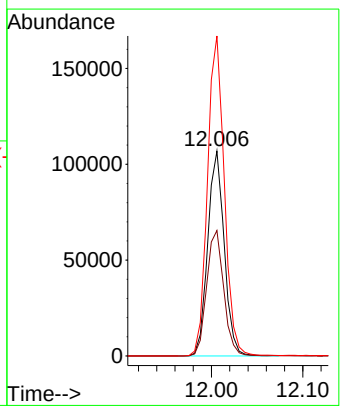




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion:152 Resp: 134519

Ion	Ratio	Lower	Upper
152	100		
115	63.2	44.9	134.5
150	159.0	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-14DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047696.D	20	09/22/25 12:23	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.0	UD	4.40	10.0	20.0	ug/L
74-87-3	Chloromethane	10.0	UD	6.40	10.0	20.0	ug/L
75-01-4	Vinyl Chloride	15.0	UD	5.20	15.0	20.0	ug/L
74-83-9	Bromomethane	75.0	UD	28.8	75.0	100	ug/L
75-00-3	Chloroethane	15.0	UD	9.40	15.0	20.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	UD	6.60	10.0	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	11.5	JD	5.00	10.0	20.0	ug/L
75-35-4	1,1-Dichloroethene	15.0	UD	4.60	15.0	20.0	ug/L
67-64-1	Acetone	75.0	UD	30.2	75.0	100	ug/L
75-15-0	Carbon Disulfide	15.0	UD	4.20	15.0	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	UD	3.20	10.0	20.0	ug/L
79-20-9	Methyl Acetate	15.0	UD	5.40	15.0	20.0	ug/L
75-09-2	Methylene Chloride	10.0	UD	5.60	10.0	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	UD	4.60	10.0	20.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	UD	4.60	10.0	20.0	ug/L
110-82-7	Cyclohexane	50.0	UD	29.0	50.0	100	ug/L
78-93-3	2-Butanone	50.0	UD	19.6	50.0	100	ug/L
56-23-5	Carbon Tetrachloride	10.0	UD	5.00	10.0	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	15.0	UD	3.80	15.0	20.0	ug/L
74-97-5	Bromochloromethane	10.0	UD	4.40	10.0	20.0	ug/L
67-66-3	Chloroform	10.0	UD	5.00	10.0	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	UD	4.00	10.0	20.0	ug/L
108-87-2	Methylcyclohexane	10.0	UD	3.20	10.0	20.0	ug/L
71-43-2	Benzene	10.0	UD	3.00	10.0	20.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	UD	4.40	10.0	20.0	ug/L
79-01-6	Trichloroethene	1200	D	1.90	15.0	20.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	UD	4.00	10.0	20.0	ug/L
75-27-4	Bromodichloromethane	10.0	UD	4.40	10.0	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	UD	13.6	50.0	100	ug/L
108-88-3	Toluene	10.0	UD	2.80	10.0	20.0	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-14DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047696.D	20	09/22/25 12:23	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	10.0	UD	3.40	10.0	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	UD	3.20	10.0	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	10.0	UD	4.20	10.0	20.0	ug/L
591-78-6	2-Hexanone	50.0	UD	17.8	50.0	100	ug/L
124-48-1	Dibromochloromethane	10.0	UD	3.60	10.0	20.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	UD	3.00	10.0	20.0	ug/L
127-18-4	Tetrachloroethene	10.0	UD	4.60	10.0	20.0	ug/L
108-90-7	Chlorobenzene	10.0	UD	2.40	10.0	20.0	ug/L
100-41-4	Ethyl Benzene	10.0	UD	2.60	10.0	20.0	ug/L
179601-23-1	m/p-Xylenes	20.0	UD	4.80	20.0	40.0	ug/L
95-47-6	o-Xylene	10.0	UD	2.40	10.0	20.0	ug/L
100-42-5	Styrene	10.0	UD	3.00	10.0	20.0	ug/L
75-25-2	Bromoform	10.0	UD	3.80	10.0	20.0	ug/L
98-82-8	Isopropylbenzene	10.0	UD	2.40	10.0	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	UD	5.20	10.0	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	UD	3.20	10.0	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	UD	3.80	10.0	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	UD	3.20	10.0	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.0	UD	10.6	15.0	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	UD	4.00	10.0	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	15.0	UD	4.00	15.0	20.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.8		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	53.0		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	199000	5.544				
540-36-3	1,4-Difluorobenzene	366000	6.751				
3114-55-4	Chlorobenzene-d5	331000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	159000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE105D2-20250911DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-14DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047696.D	20	09/22/25 12:23	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047696.D
Acq On : 22 Sep 2025 12:23
Operator : JC/MD
Sample : Q3097-14DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911DL

Quant Time: Sep 23 01:32:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

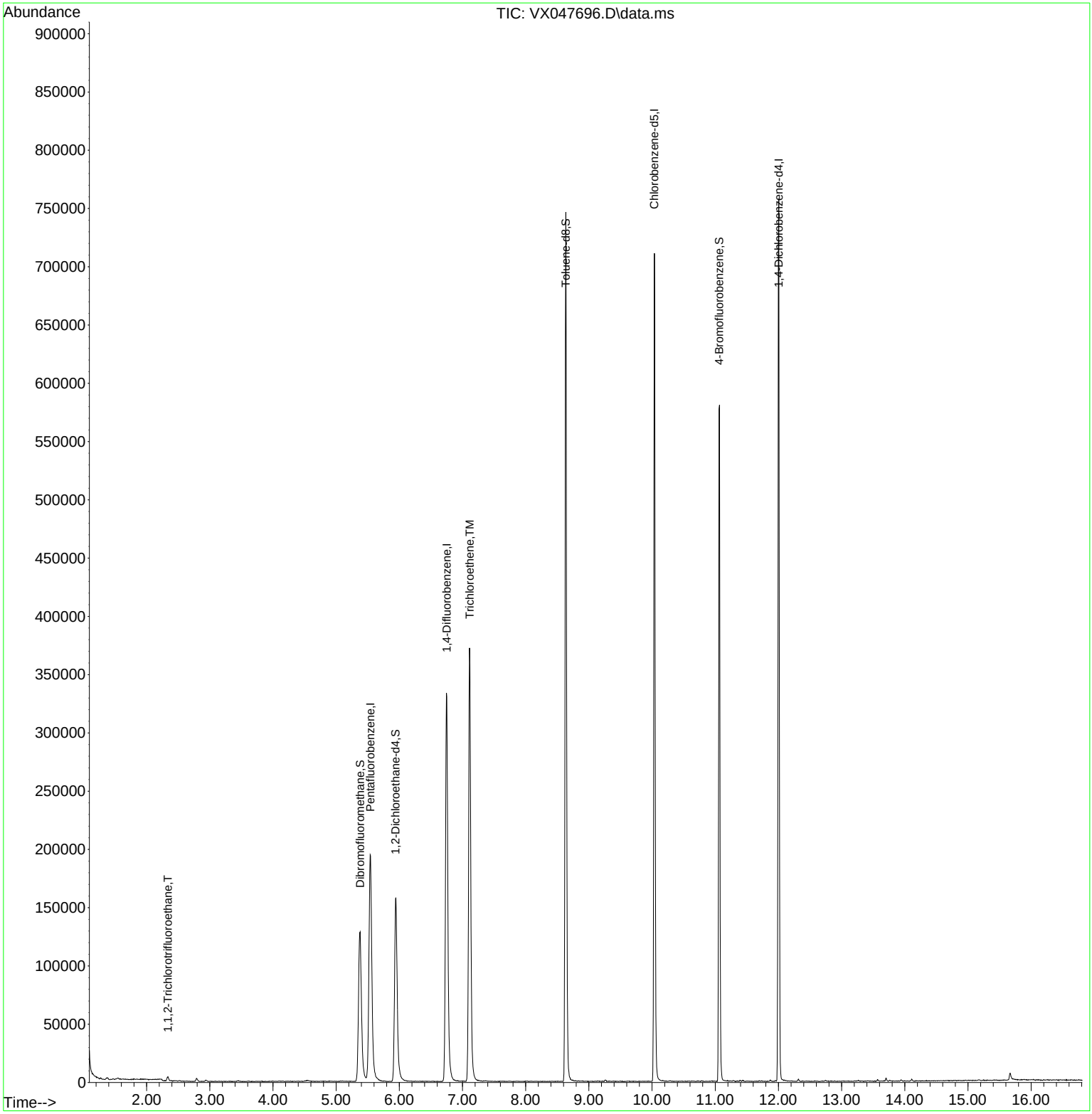
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	199018	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	365741	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	330943	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	159199	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	170350	53.774	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.540%			
35) Dibromofluoromethane	5.379	113	128743	52.487	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.980%			
50) Toluene-d8	8.634	98	450242	53.048	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.100%			
62) 4-Bromofluorobenzene	11.061	95	171071	53.109	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.220%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	1323	0.575	ug/l	95
44) Trichloroethene	7.116	130	156901	59.616	ug/l	95

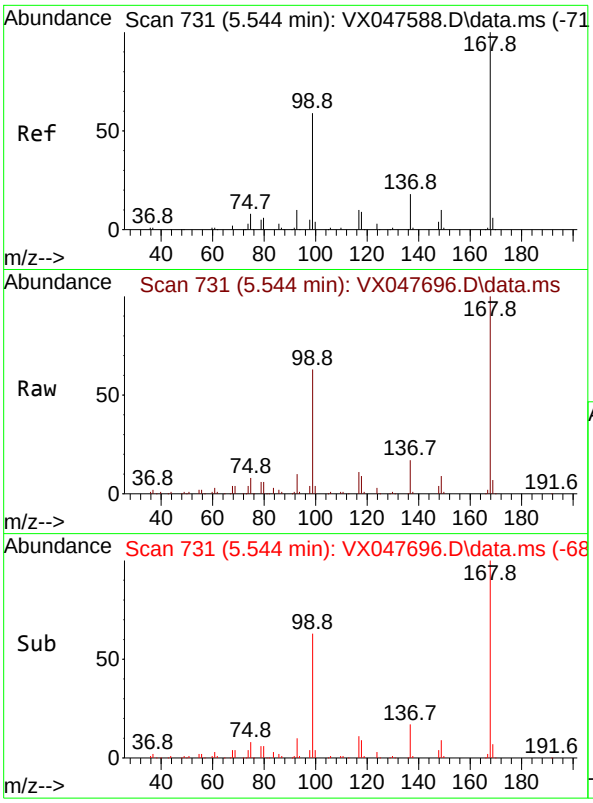
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047696.D
Acq On : 22 Sep 2025 12:23
Operator : JC/MD
Sample : Q3097-14DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911DL

Quant Time: Sep 23 01:32:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



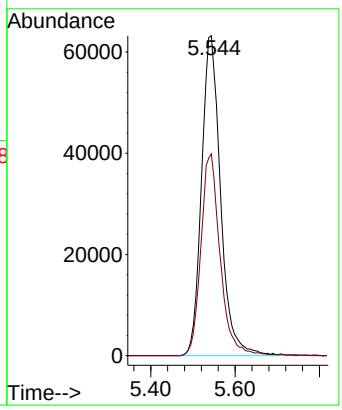


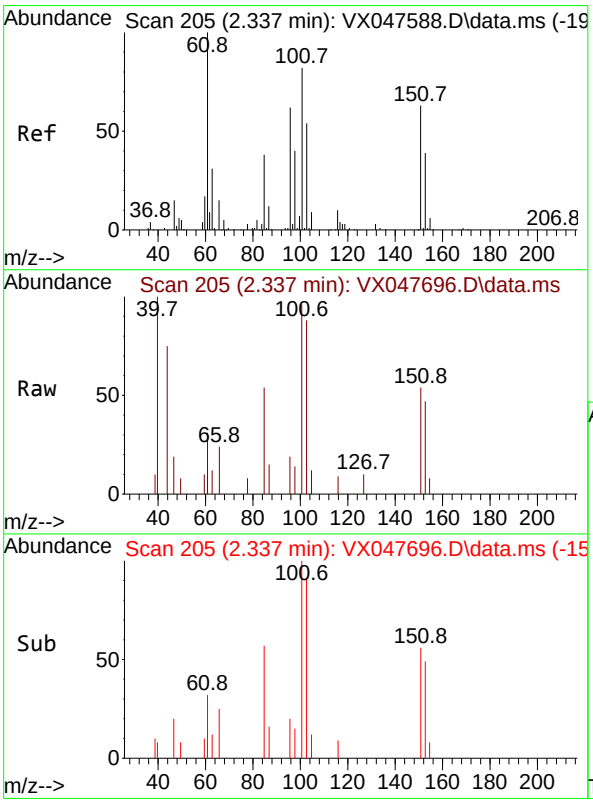
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911DL

Tgt Ion:168 Resp: 199018

Ion	Ratio	Lower	Upper
168	100		
99	63.0	48.8	73.2

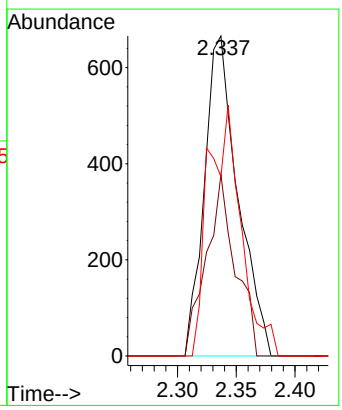


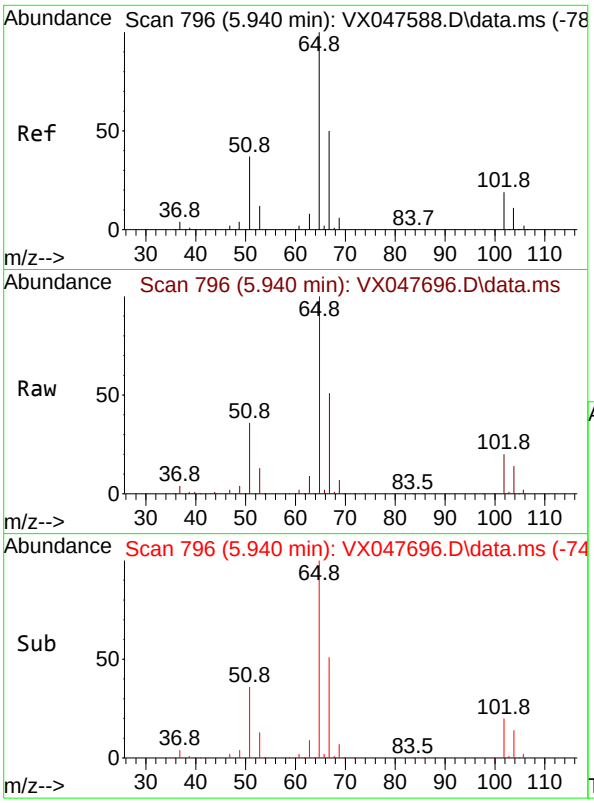


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.575 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Tgt Ion:101 Resp: 1323

Ion	Ratio	Lower	Upper
101	100		
85	49.3	35.5	53.3
151	76.6	59.4	89.0



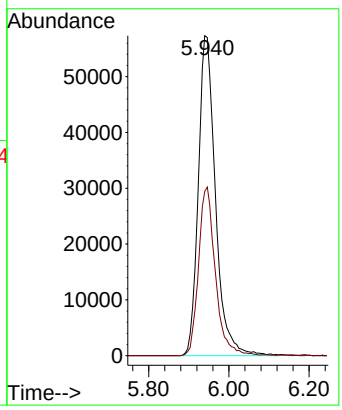


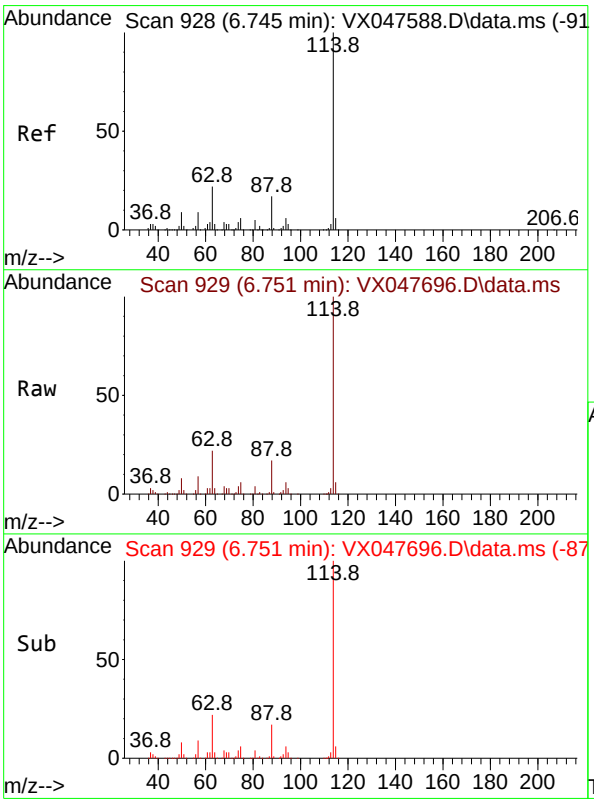
#33
1,2-Dichloroethane-d4
Concen: 53.774 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911DL

Tgt Ion: 65 Resp: 170350

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	103.0

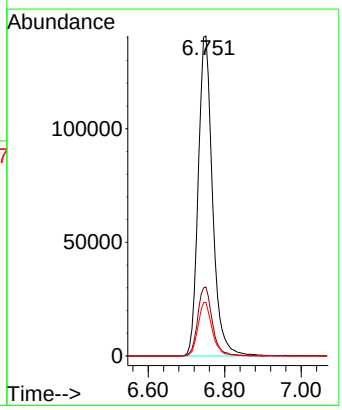


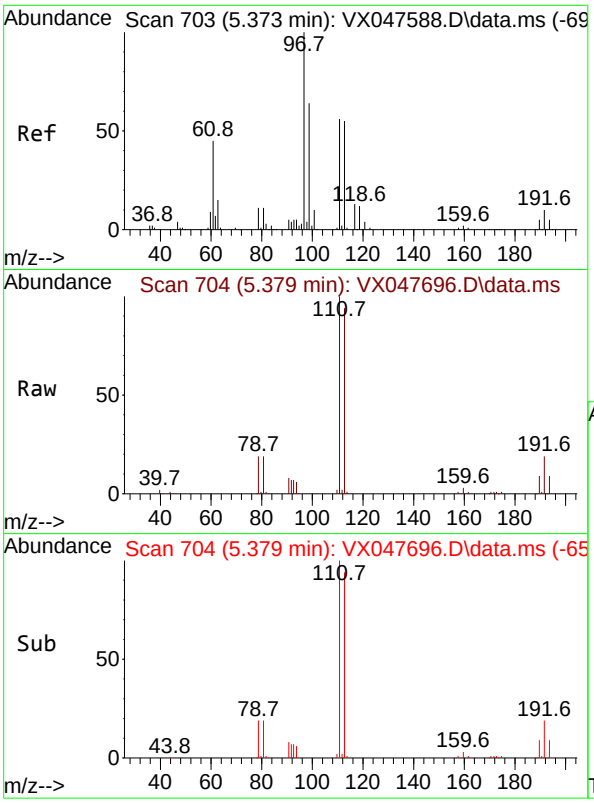


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Tgt Ion:114 Resp: 365741

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	44.0
88	16.8	0.0	34.2



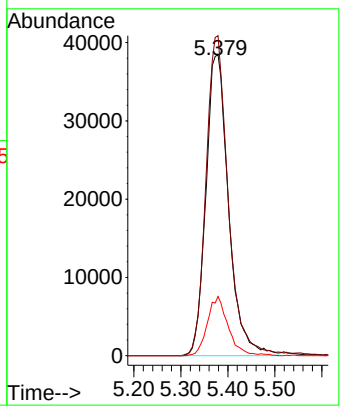


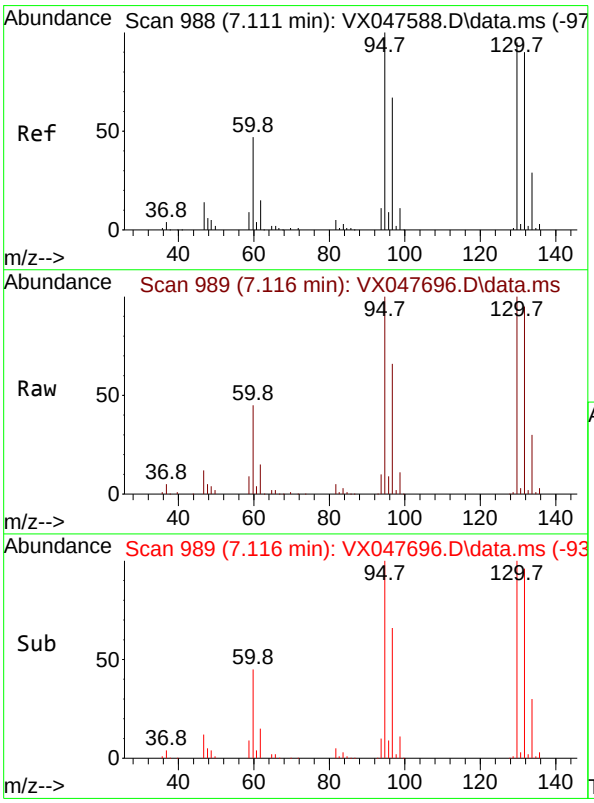
#35
Dibromofluoromethane
Concen: 52.487 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911DL

Tgt Ion:113 Resp: 128743

Ion	Ratio	Lower	Upper
113	100		
111	104.4	80.9	121.3
192	17.9	14.2	21.4

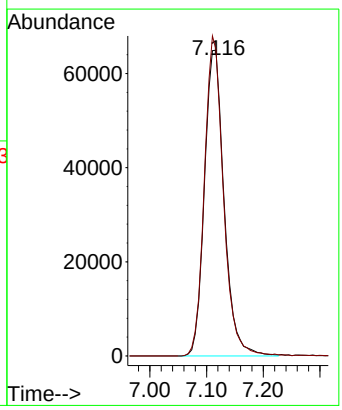


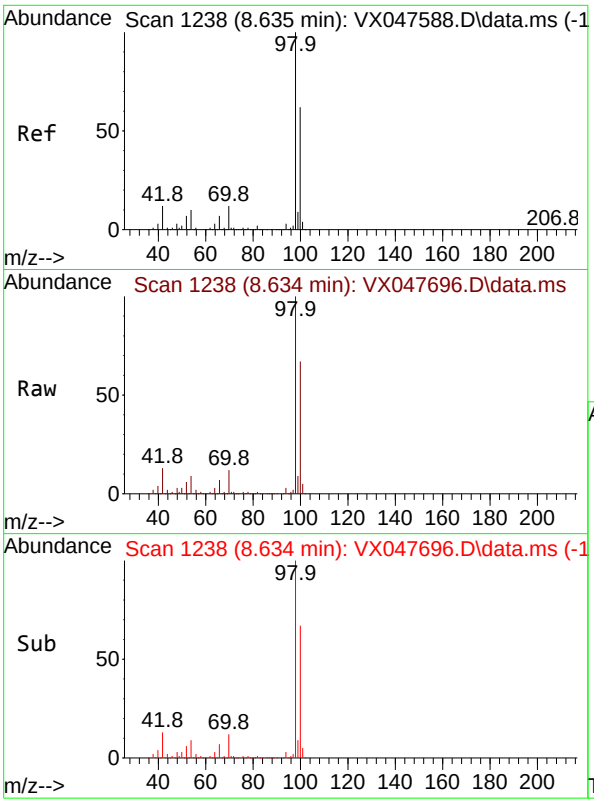


#44
Trichloroethene
Concen: 59.616 ug/l
RT: 7.116 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Tgt Ion:130 Resp: 156901

Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	210.8



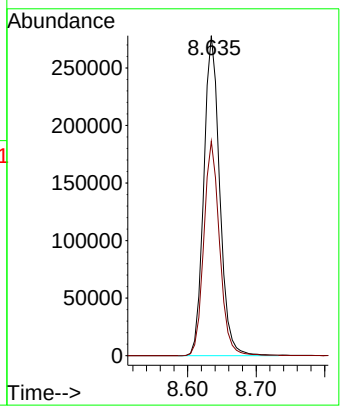


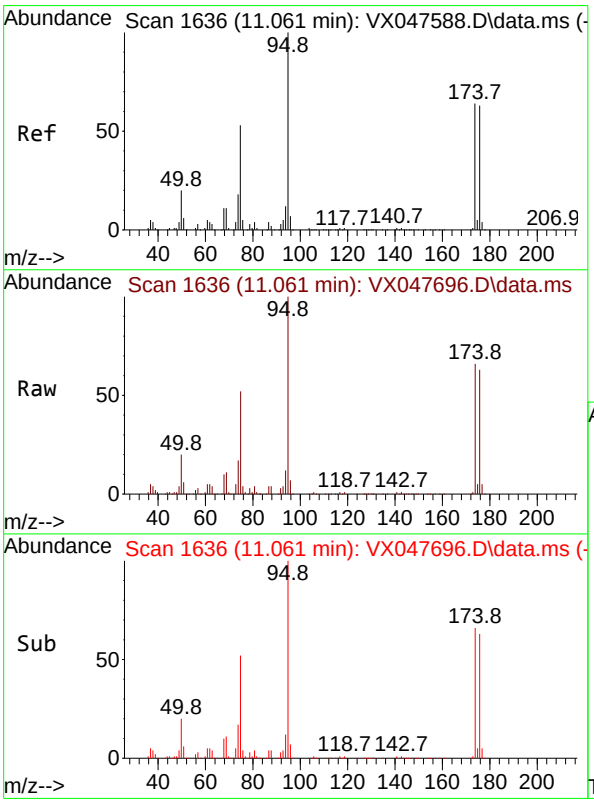
#50
Toluene-d8
Concen: 53.048 ug/l
RT: 8.634 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911DL

Tgt Ion: 98 Resp: 450242

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.4

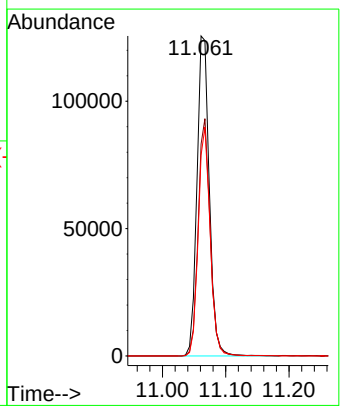


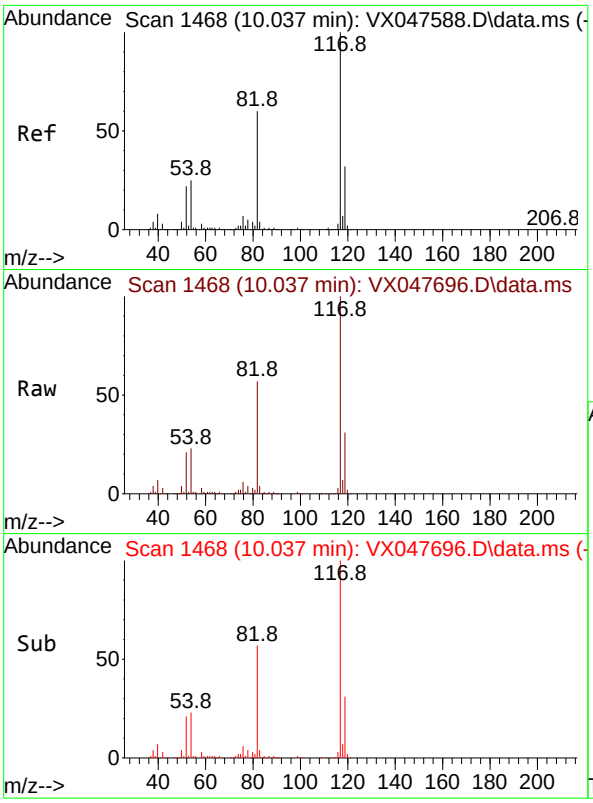


#62
4-Bromofluorobenzene
Concen: 53.109 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Tgt Ion: 95 Resp: 171071

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	68.9	0.0	138.4



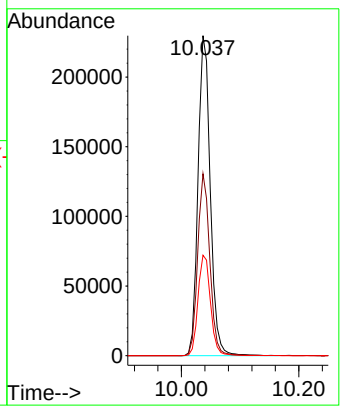


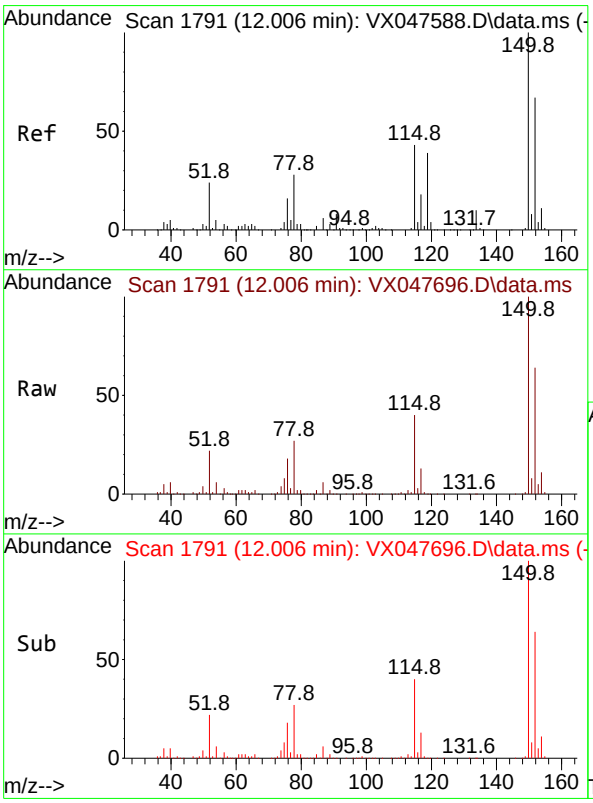
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911DL

Tgt Ion:117 Resp: 330943

Ion	Ratio	Lower	Upper
117	100		
82	56.8	47.8	71.6
119	31.4	25.2	37.8

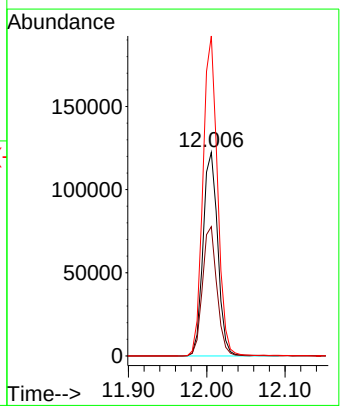




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047696.D
Acq: 22 Sep 2025 12:23

Tgt Ion:152 Resp: 159199

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.9	134.5
150	155.6	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE117D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-15	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047735.D	1	09/23/25 15:52	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.50	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.33	J	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

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Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE117D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-15	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047735.D	1	09/23/25 15:52	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.1		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	48.9		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.5		85 - 114		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	135000	5.544				
540-36-3	1,4-Difluorobenzene	281000	6.751				
3114-55-4	Chlorobenzene-d5	282000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	144000	12.006				

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Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE117D2-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-15	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047735.D	1	09/23/25 15:52	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047735.D
Acq On : 23 Sep 2025 15:52
Operator : JC/MD
Sample : Q3097-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE117D2-20250911

Quant Time: Sep 24 01:34:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

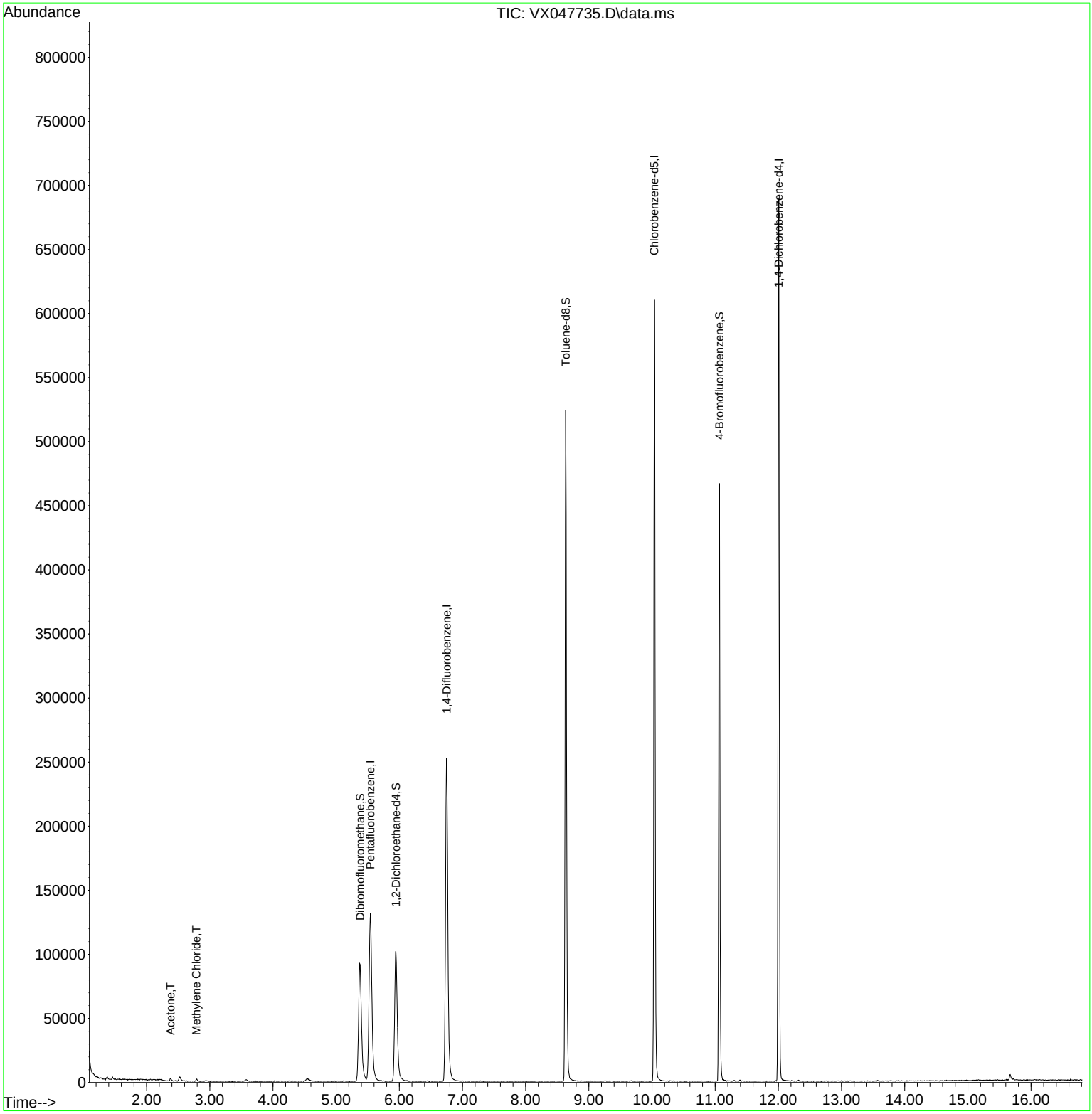
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134799	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	280775	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	282111	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	143533	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	109748	51.149	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.300%			
35) Dibromofluoromethane	5.379	113	89571	47.567	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.140%			
50) Toluene-d8	8.635	98	318611	48.899	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 97.800%			
62) 4-Bromofluorobenzene	11.067	95	134736	54.487	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.980%			
Target Compounds						Qvalue
16) Acetone	2.380	43	2333	2.501	ug/l	96
20) Methylene Chloride	2.788	84	642	0.325	ug/l #	81

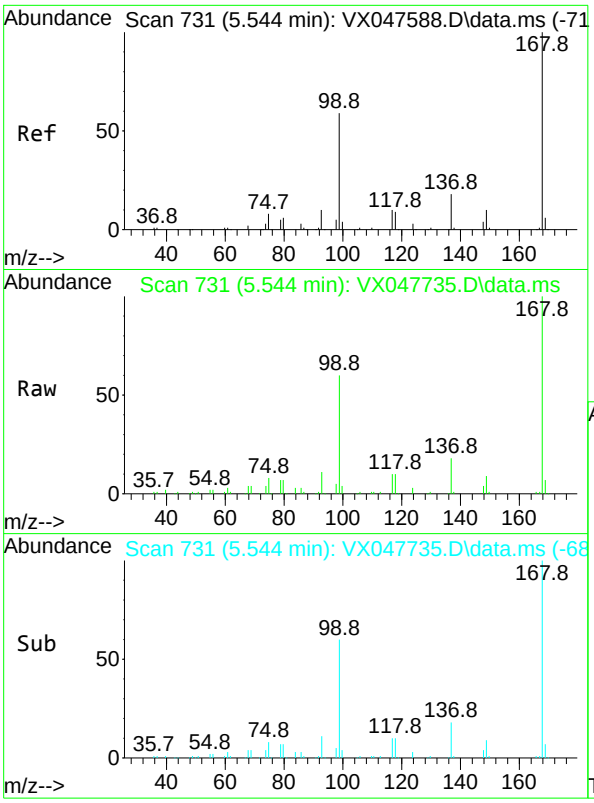
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047735.D
Acq On : 23 Sep 2025 15:52
Operator : JC/MD
Sample : Q3097-15
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE117D2-20250911

Quant Time: Sep 24 01:34:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



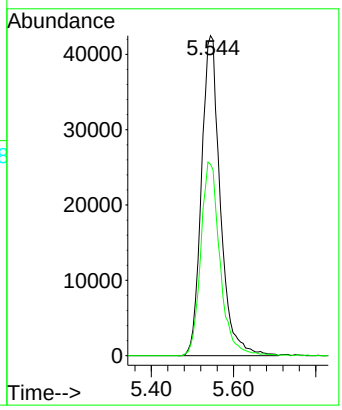


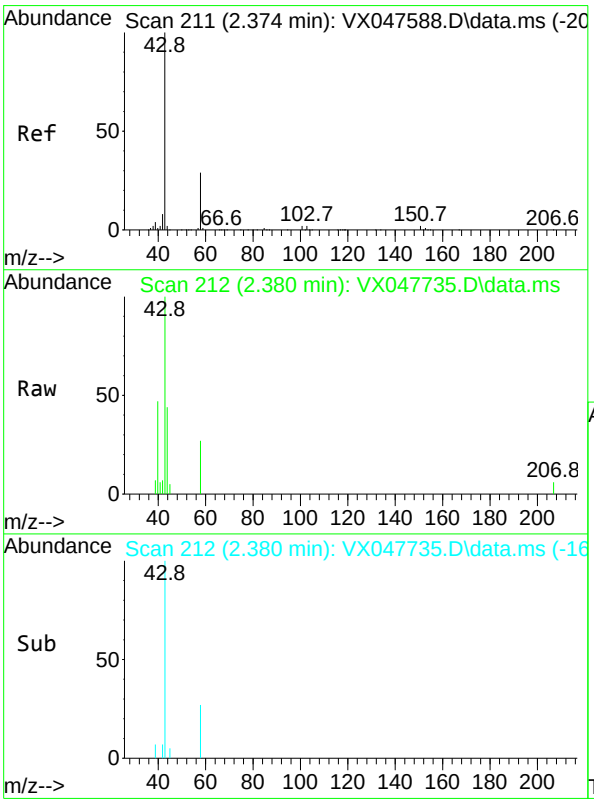
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
RE117D2-20250911

Tgt Ion:168 Resp: 134799

Ion	Ratio	Lower	Upper
168	100		
99	59.8	48.8	73.2

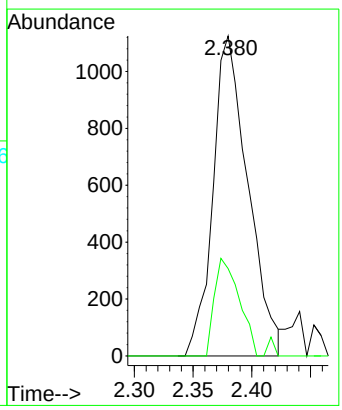


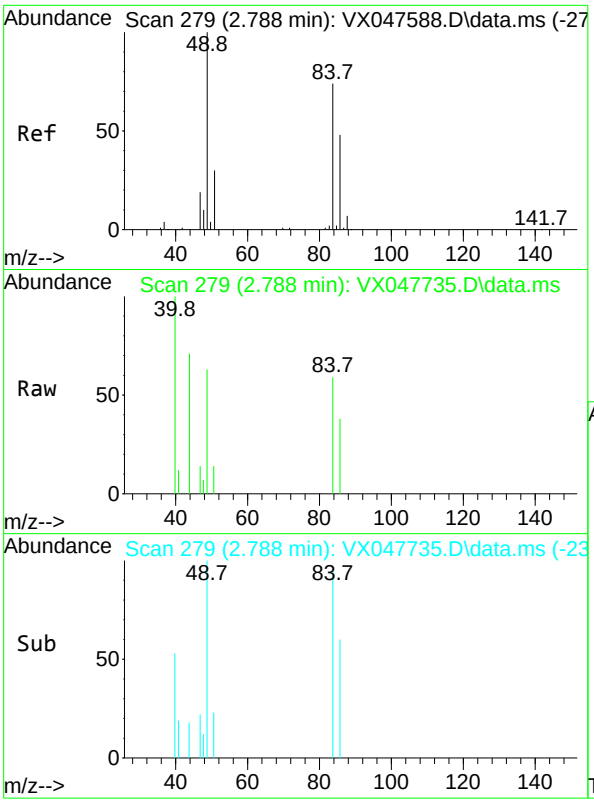


#16
Acetone
Concen: 2.501 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Tgt Ion: 43 Resp: 2333

Ion	Ratio	Lower	Upper
43	100		
58	27.3	23.4	35.0



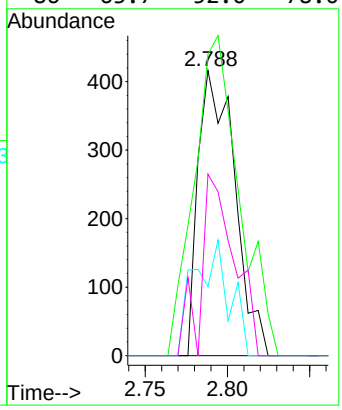


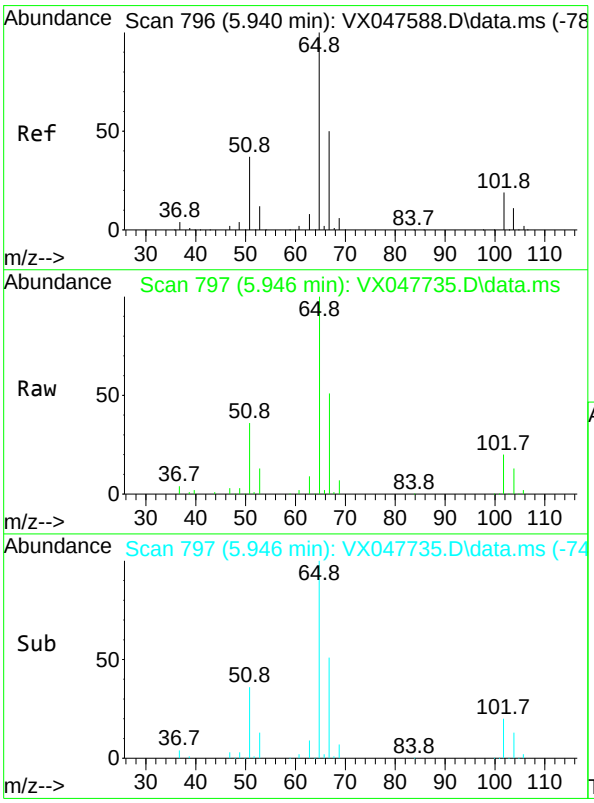
#20
Methylene Chloride
Concen: 0.325 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
RE117D2-20250911

Tgt Ion: 84 Resp: 642

Ion	Ratio	Lower	Upper
84	100		
49	105.8	108.6	162.8#
51	24.3	32.6	48.8#
86	63.7	52.0	78.0

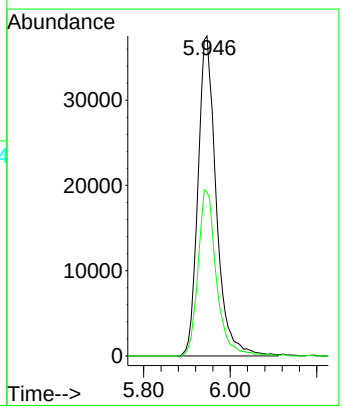


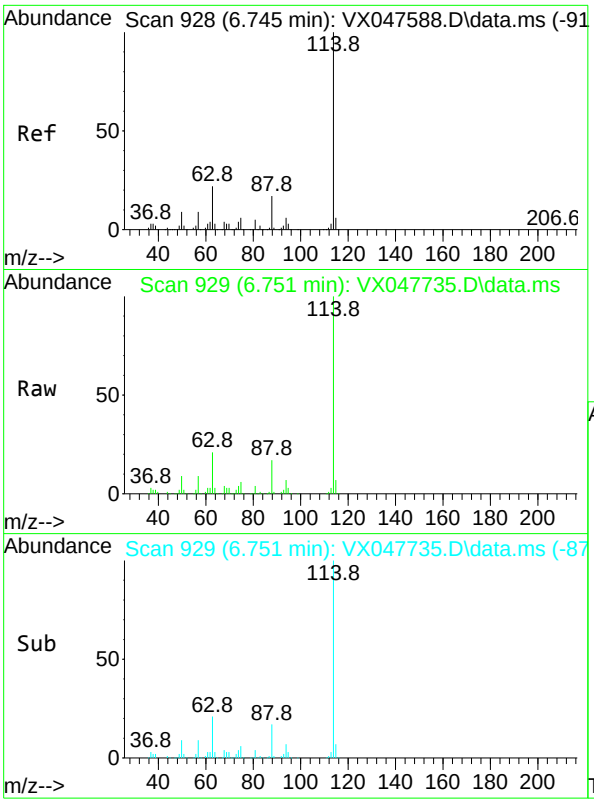


#33
1,2-Dichloroethane-d4
Concen: 51.149 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Tgt Ion: 65 Resp: 109748

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0



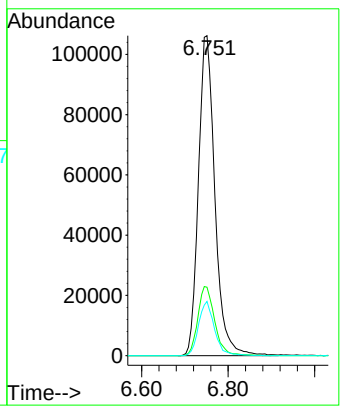


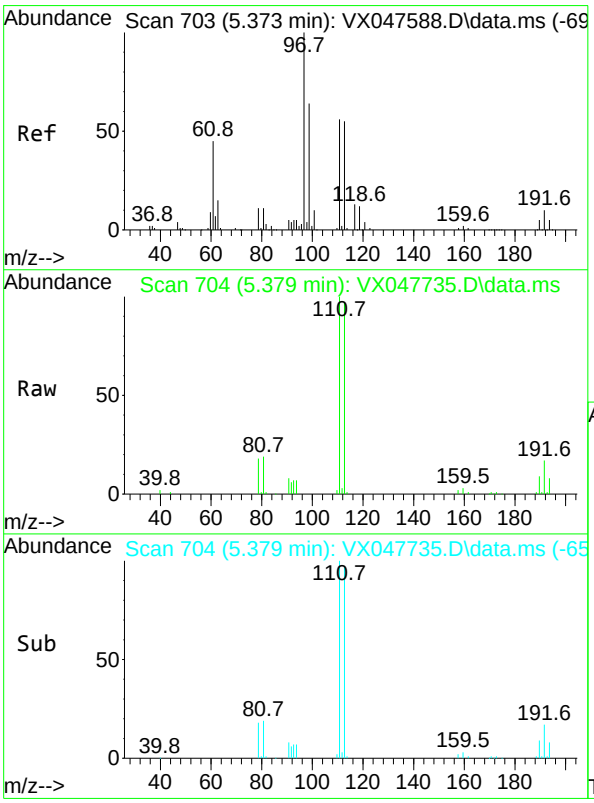
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
RE117D2-20250911

Tgt Ion:114 Resp: 280775

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	44.0
88	16.9	0.0	34.2

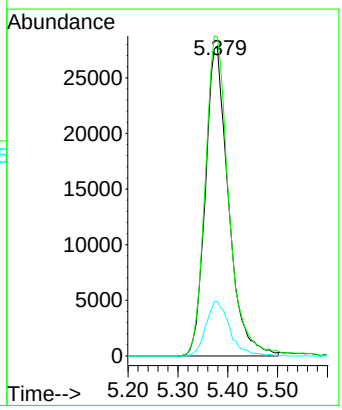


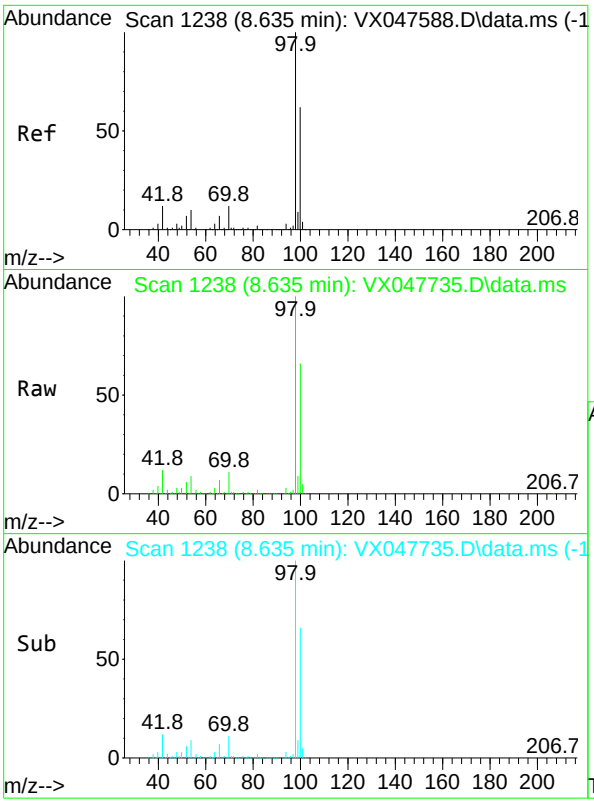


#35
Dibromofluoromethane
Concen: 47.567 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Tgt Ion:113 Resp: 89571

Ion	Ratio	Lower	Upper
113	100		
111	105.3	80.9	121.3
192	18.1	14.2	21.4



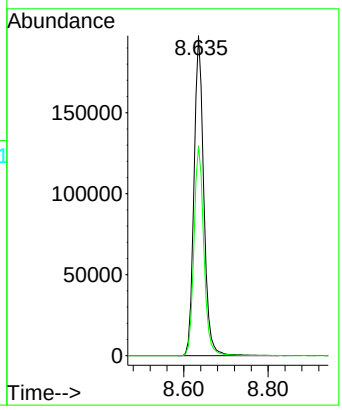


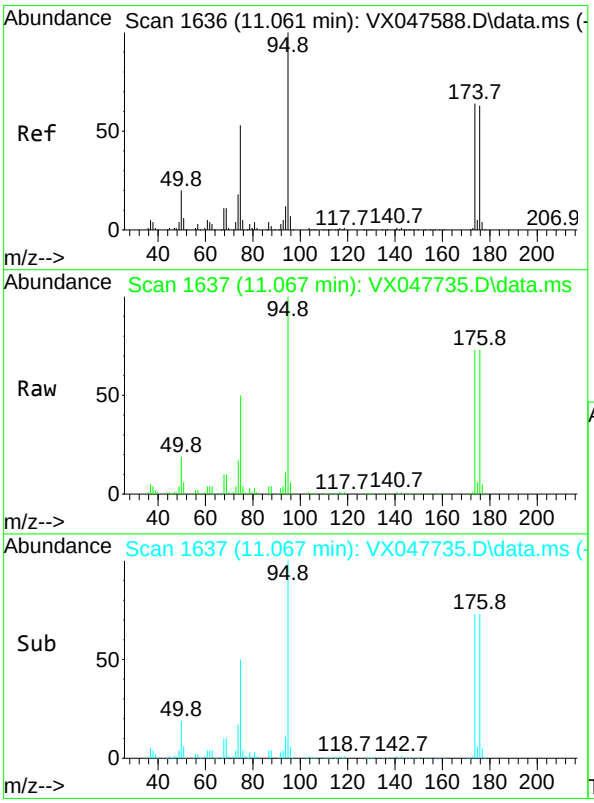
#50
Toluene-d8
Concen: 48.899 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
RE117D2-20250911

Tgt Ion: 98 Resp: 318611

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.4

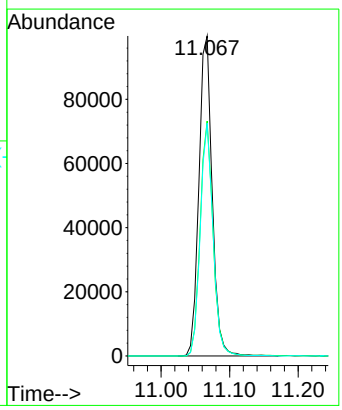


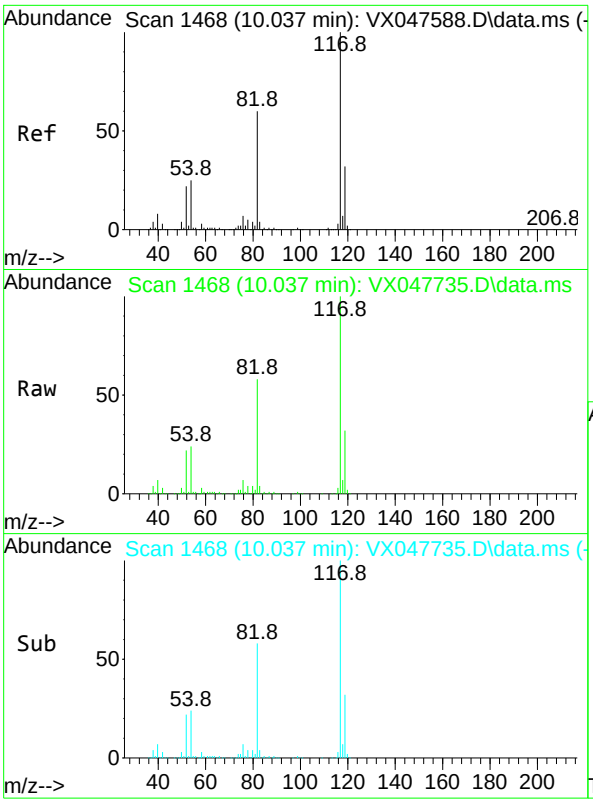


#62
4-Bromofluorobenzene
Concen: 54.487 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Tgt Ion: 95 Resp: 134736

Ion	Ratio	Lower	Upper
95	100		
174	71.0	0.0	141.6
176	70.1	0.0	138.4



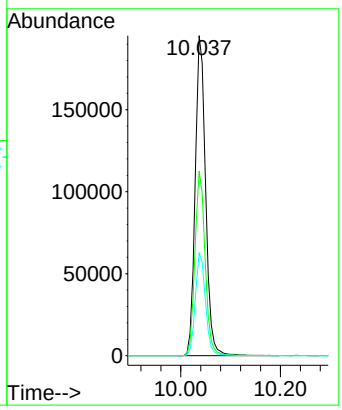


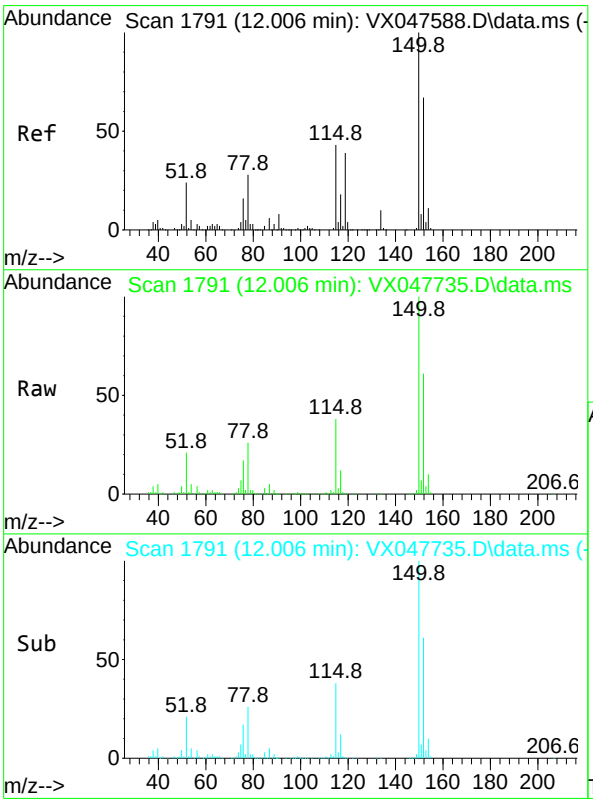
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Instrument :
MSVOA_X
ClientSampleId :
RE117D2-20250911

Tgt Ion:117 Resp: 282111

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	32.0	25.2	37.8

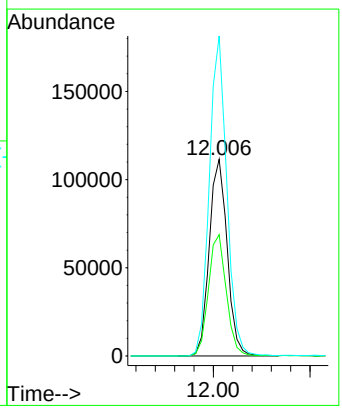




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047735.D
Acq: 23 Sep 2025 15:52

Tgt Ion:152 Resp: 143533

Ion	Ratio	Lower	Upper
152	100		
115	61.6	44.9	134.5
150	158.3	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TB03-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-16	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047729.D	1	09/23/25 13:46	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TB03-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-16	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047729.D	1	09/23/25 13:46	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.4		81 - 118		95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	47.5		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.2		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	144000	5.537				
540-36-3	1,4-Difluorobenzene	290000	6.751				
3114-55-4	Chlorobenzene-d5	290000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	146000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TB03-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-16	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047729.D	1	09/23/25 13:46	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047729.D
Acq On : 23 Sep 2025 13:46
Operator : JC/MD
Sample : Q3097-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB03-20250911

Quant Time: Sep 24 01:32:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	143699	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	290210	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	290111	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	146254	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	108356	47.372	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 94.740%			
35) Dibromofluoromethane	5.379	113	91631	47.079	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.160%			
50) Toluene-d8	8.635	98	319601	47.456	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.920%			
62) 4-Bromofluorobenzene	11.067	95	136012	53.215	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.420%			

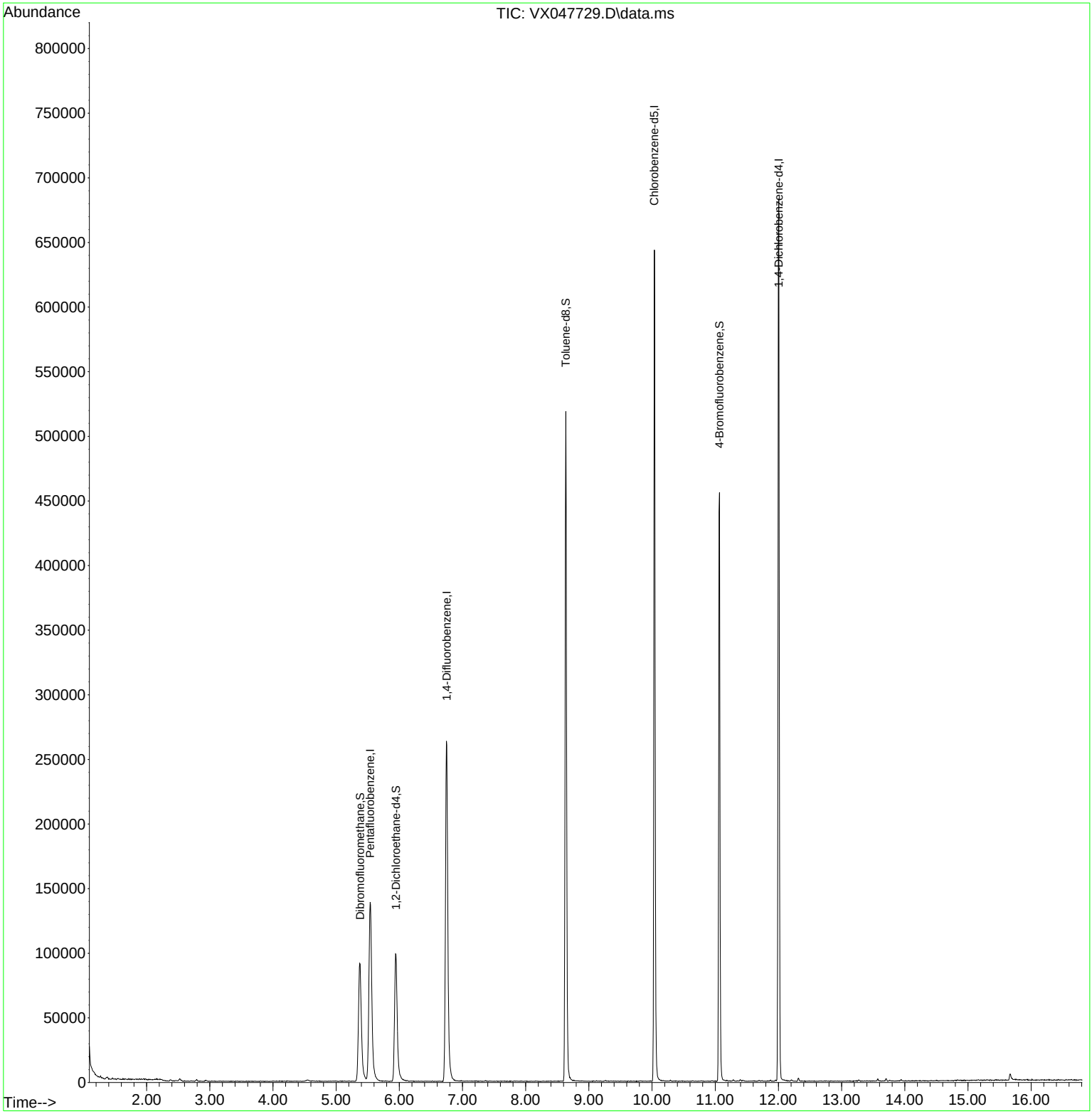
Target Compounds Qvalue

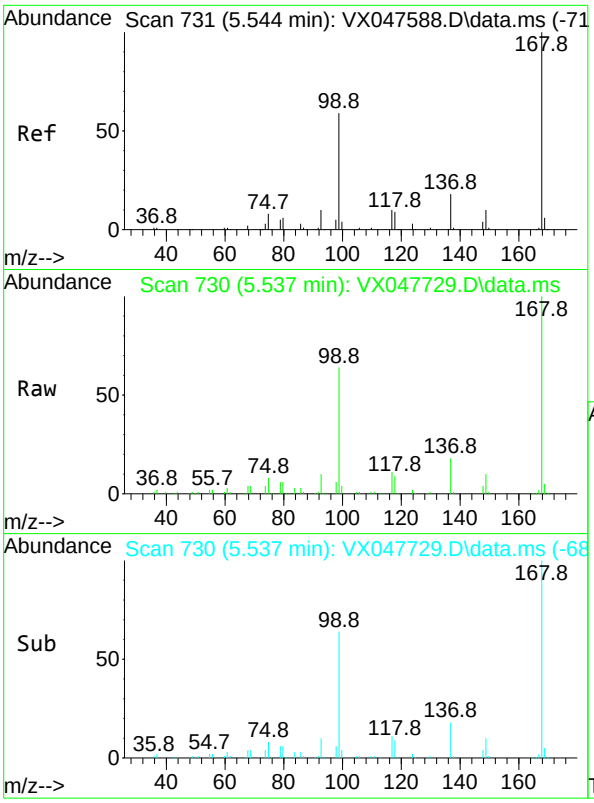
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047729.D
Acq On : 23 Sep 2025 13:46
Operator : JC/MD
Sample : Q3097-16
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB03-20250911

Quant Time: Sep 24 01:32:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



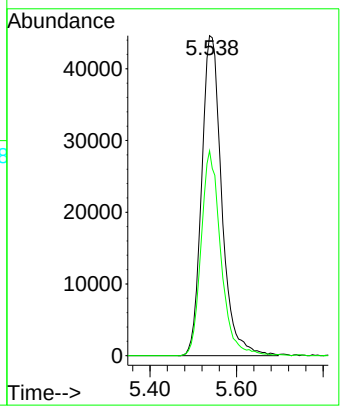


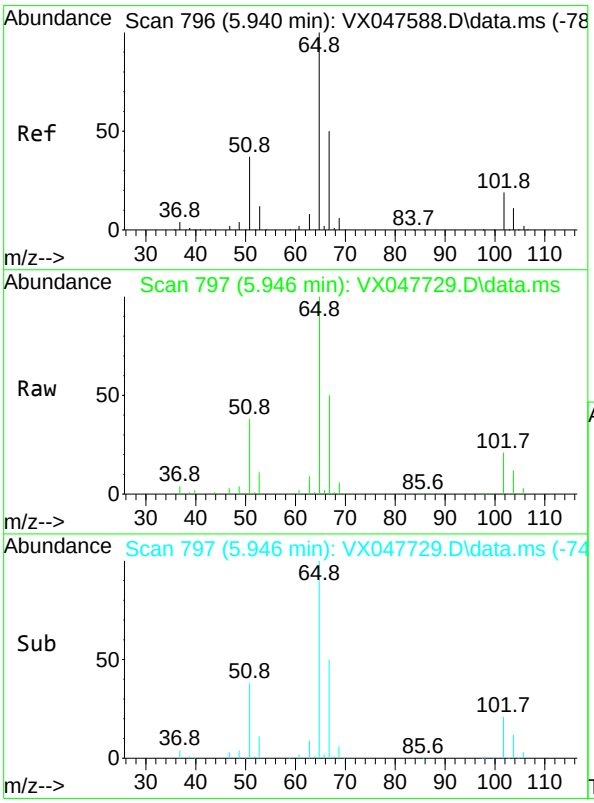
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047729.D
Acq: 23 Sep 2025 13:46

Instrument :
MSVOA_X
ClientSampleId :
TB03-20250911

Tgt Ion:168 Resp: 143699

Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2

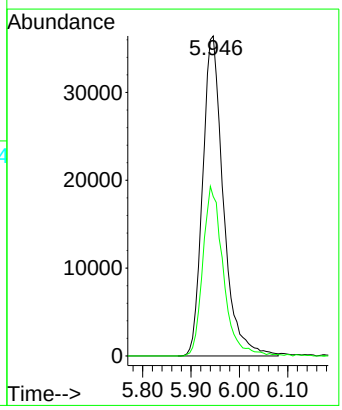


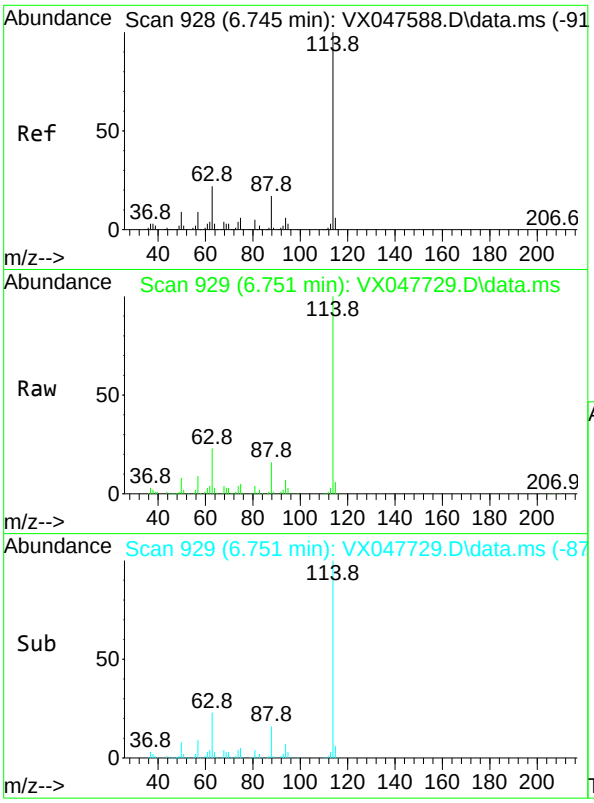


#33
1,2-Dichloroethane-d4
Concen: 47.372 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047729.D
Acq: 23 Sep 2025 13:46

Tgt Ion: 65 Resp: 108356

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	103.0



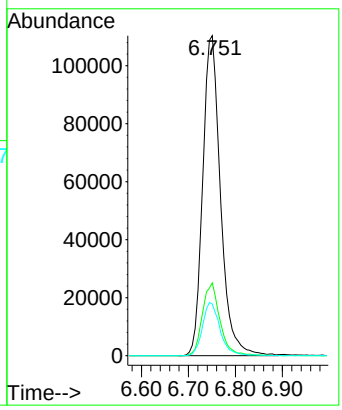


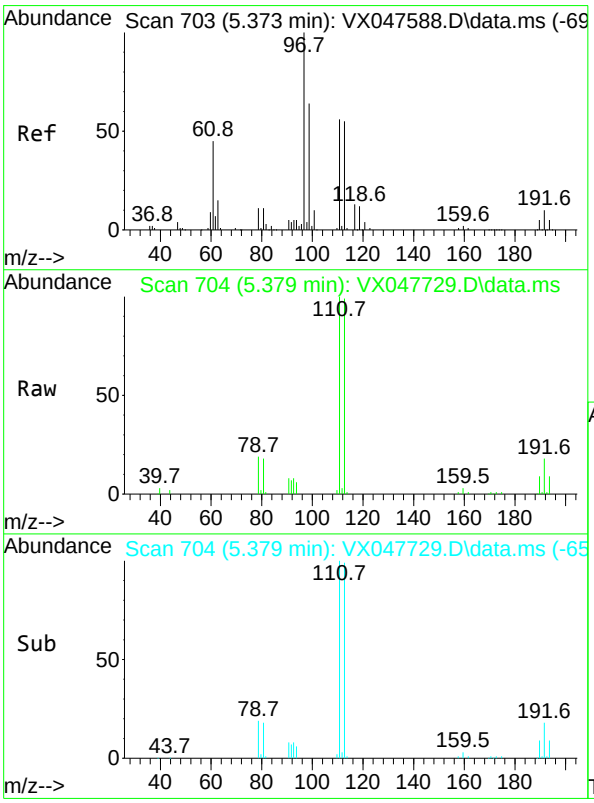
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047729.D
Acq: 23 Sep 2025 13:46

Instrument :
MSVOA_X
ClientSampleId :
TB03-20250911

Tgt Ion:114 Resp: 290210

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	44.0
88	16.2	0.0	34.2

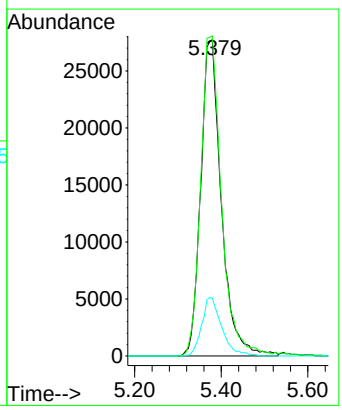


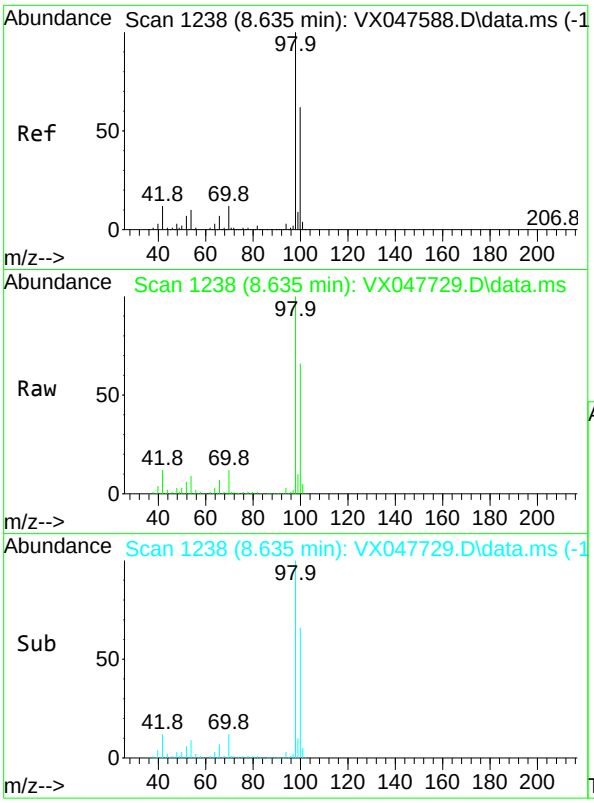


#35
Dibromofluoromethane
Concen: 47.079 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047729.D
Acq: 23 Sep 2025 13:46

Tgt Ion:113 Resp: 91631

Ion	Ratio	Lower	Upper
113	100		
111	102.1	80.9	121.3
192	17.9	14.2	21.4



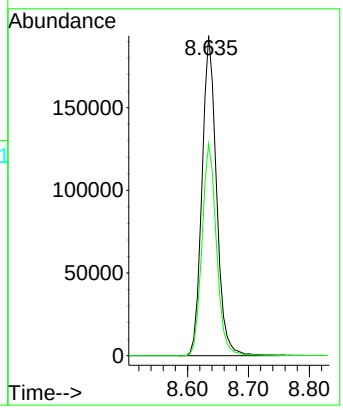


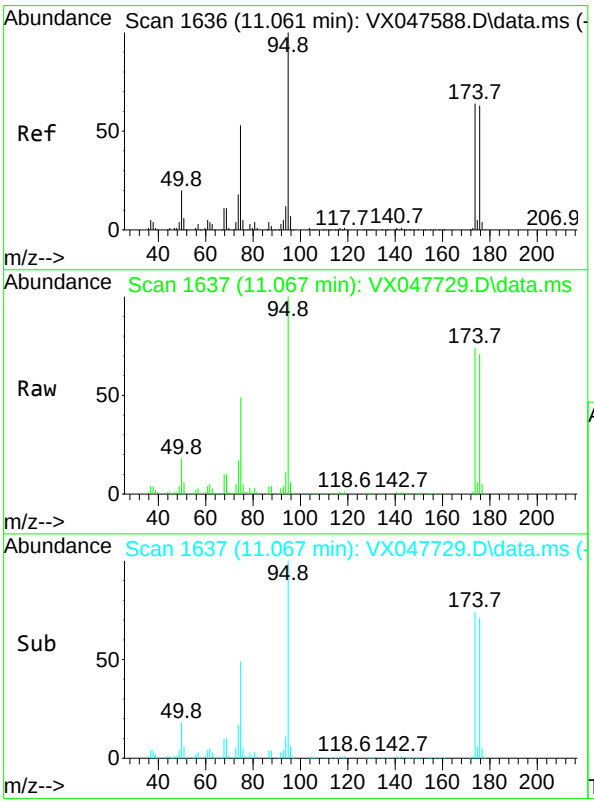
#50
Toluene-d8
Concen: 47.456 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047729.D
Acq: 23 Sep 2025 13:46

Instrument :
MSVOA_X
ClientSampleId :
TB03-20250911

Tgt Ion: 98 Resp: 319601

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.0	79.4

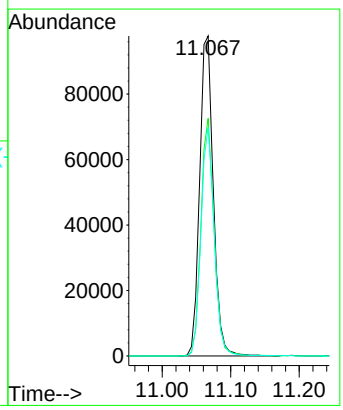


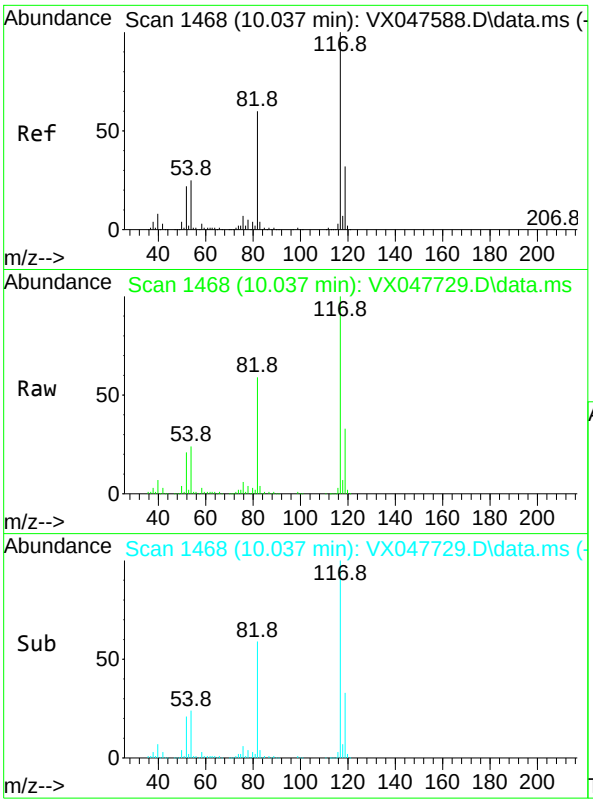


#62
4-Bromofluorobenzene
Concen: 53.215 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047729.D
Acq: 23 Sep 2025 13:46

Tgt Ion: 95 Resp: 136012

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	141.6
176	69.4	0.0	138.4



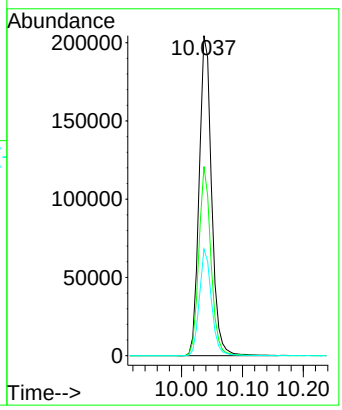


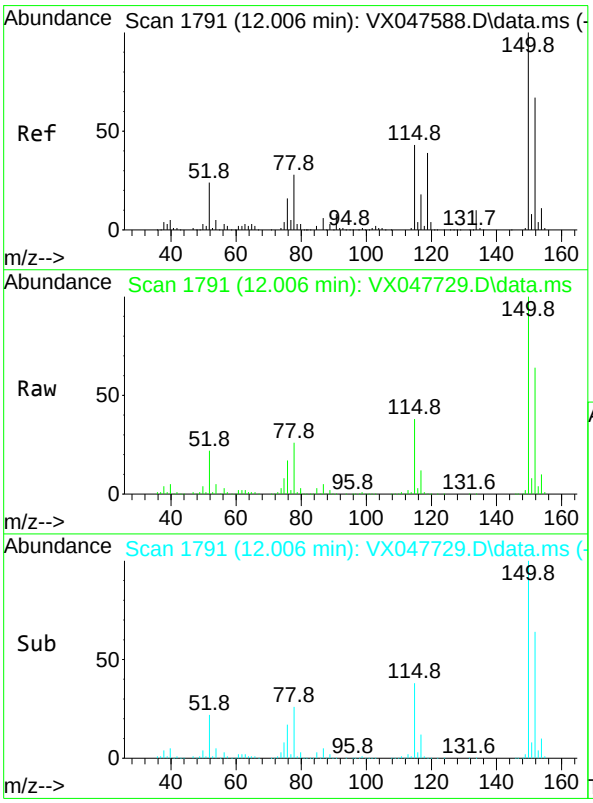
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047729.D
Acq: 23 Sep 2025 13:46

Instrument :
MSVOA_X
ClientSampleId :
TB03-20250911

Tgt Ion:117 Resp: 290111

Ion	Ratio	Lower	Upper
117	100		
82	59.1	47.8	71.6
119	33.3	25.2	37.8

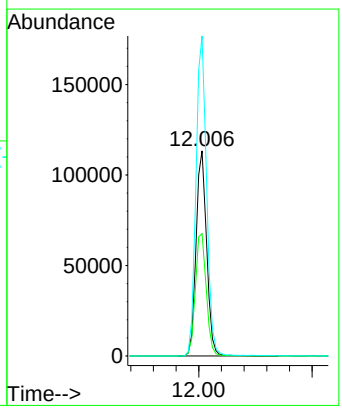




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047729.D
Acq: 23 Sep 2025 13:46

Tgt Ion:152 Resp: 146254

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.9	134.5
150	156.3	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TB04-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-17	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047736.D	1	09/23/25 16:13	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TB04-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-17	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047736.D	1	09/23/25 16:13	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.0		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	48.2		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	129000	5.538				
540-36-3	1,4-Difluorobenzene	273000	6.751				
3114-55-4	Chlorobenzene-d5	271000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	136000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TB04-20250911	SDG No.:	Q3097
Lab Sample ID:	Q3097-17	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047736.D	1	09/23/25 16:13	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047736.D
Acq On : 23 Sep 2025 16:13
Operator : JC/MD
Sample : Q3097-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04-20250911

Quant Time: Sep 24 01:35:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

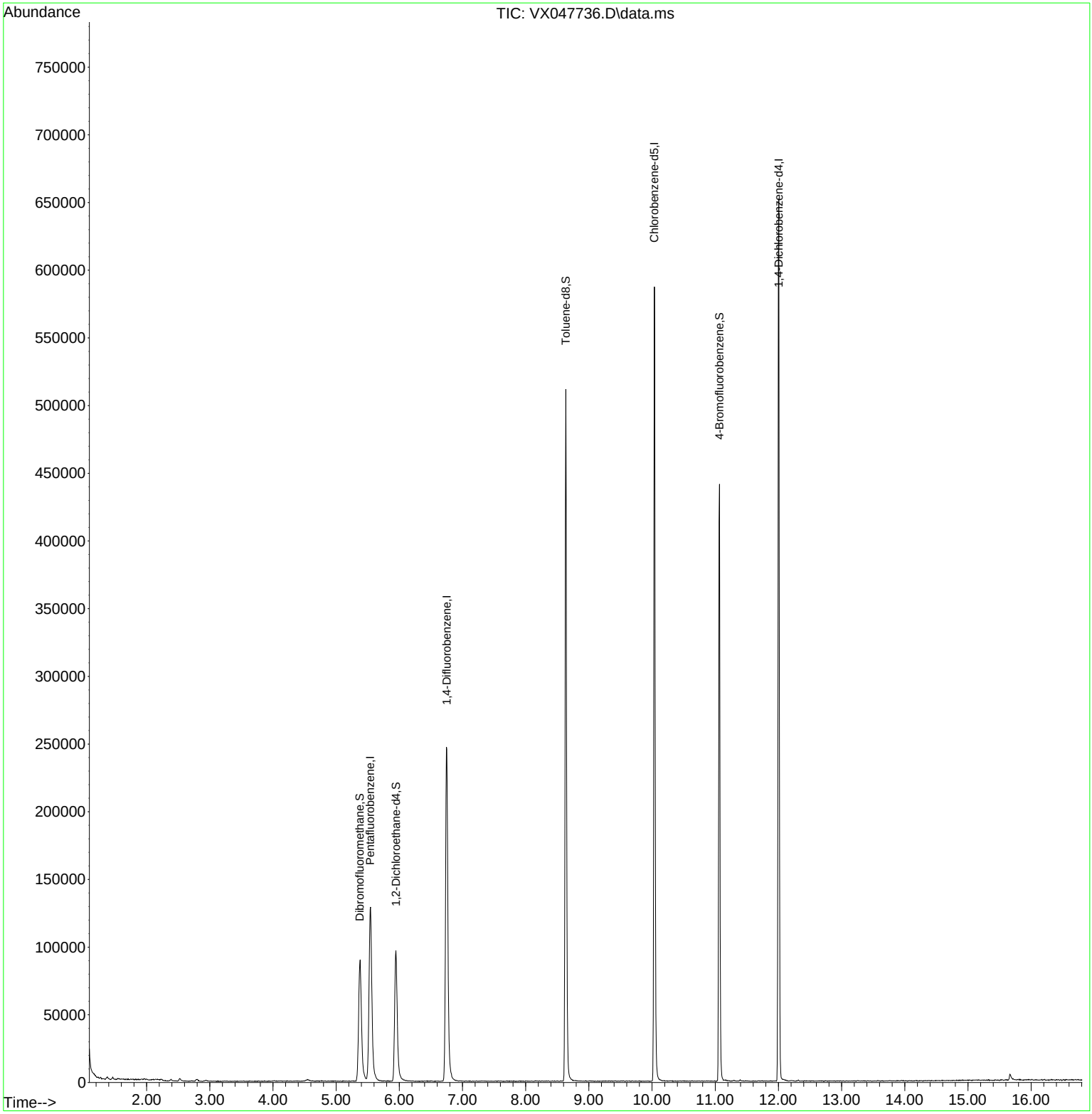
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	129298	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	272633	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	271011	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	135735	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	104965	51.001	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.000%			
35) Dibromofluoromethane	5.373	113	87103	47.638	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.280%			
50) Toluene-d8	8.635	98	304833	48.182	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.360%			
62) 4-Bromofluorobenzene	11.067	95	127320	53.026	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.060%			
Target Compounds						Qvalue

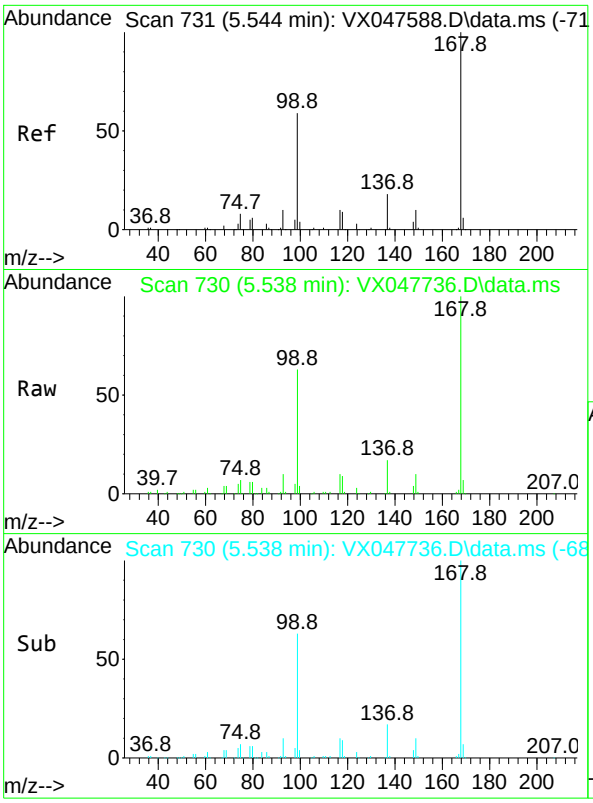
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047736.D
Acq On : 23 Sep 2025 16:13
Operator : JC/MD
Sample : Q3097-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB04-20250911

Quant Time: Sep 24 01:35:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



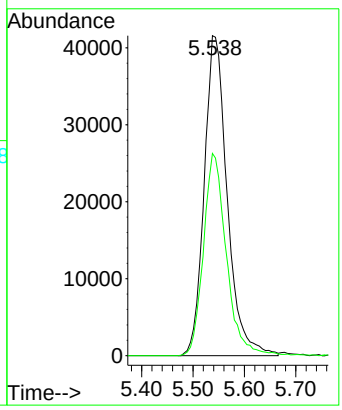


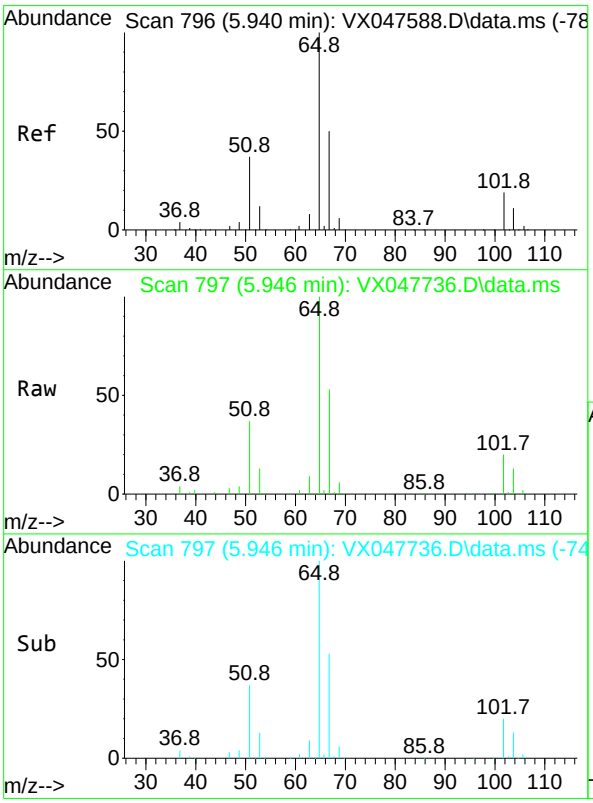
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047736.D
Acq: 23 Sep 2025 16:13

Instrument :
MSVOA_X
ClientSampleId :
TB04-20250911

Tgt Ion:168 Resp: 129298

Ion	Ratio	Lower	Upper
168	100		
99	63.2	48.8	73.2

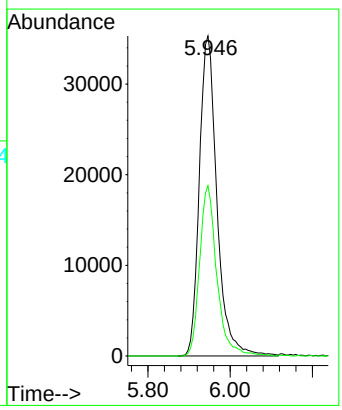


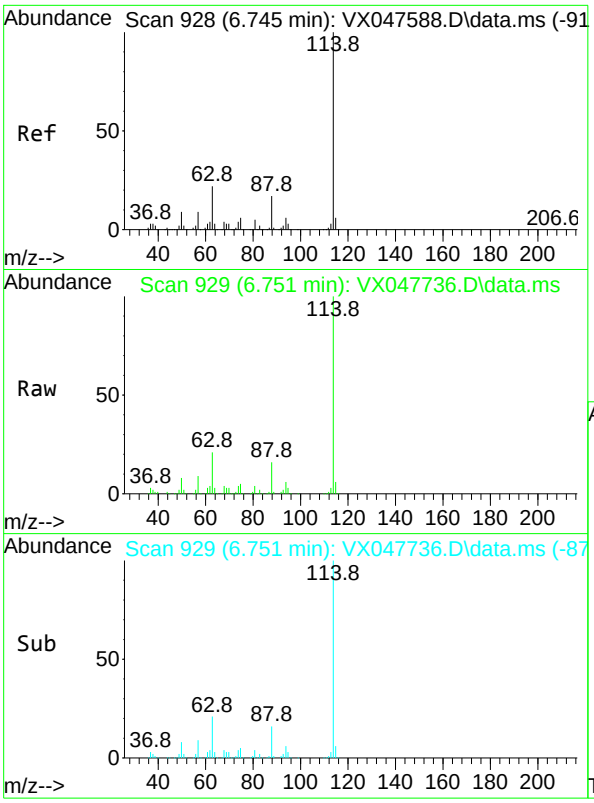


#33
1,2-Dichloroethane-d4
Concen: 51.001 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047736.D
Acq: 23 Sep 2025 16:13

Tgt Ion: 65 Resp: 104965

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.0



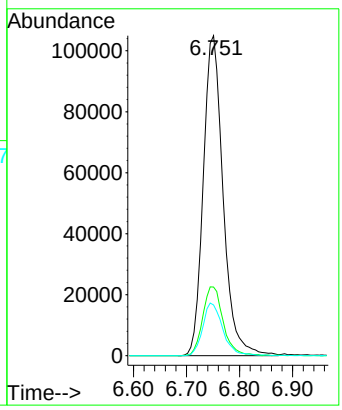


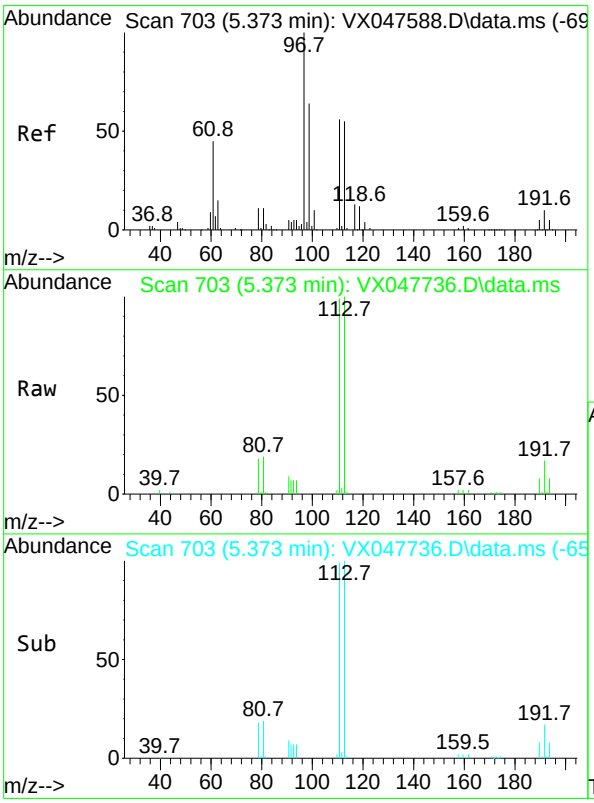
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047736.D
Acq: 23 Sep 2025 16:13

Instrument :
MSVOA_X
ClientSampleId :
TB04-20250911

Tgt Ion:114 Resp: 272633

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	44.0
88	15.8	0.0	34.2

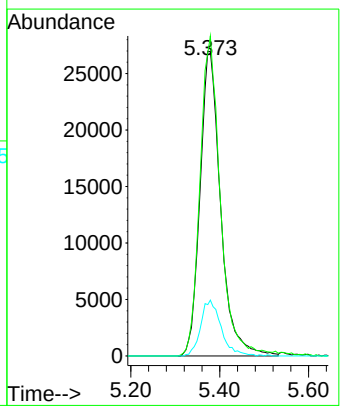


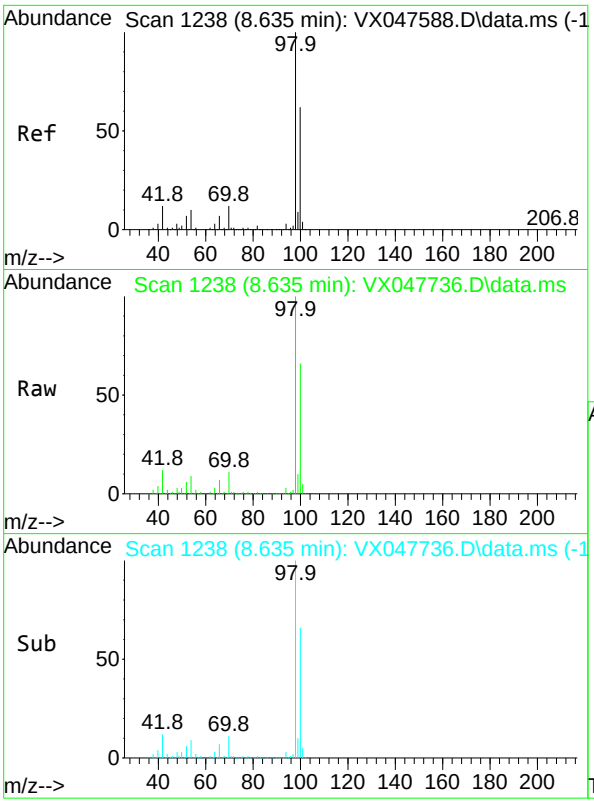


#35
Dibromofluoromethane
Concen: 47.638 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047736.D
Acq: 23 Sep 2025 16:13

Tgt Ion:113 Resp: 87103

Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.9	121.3
192	18.2	14.2	21.4



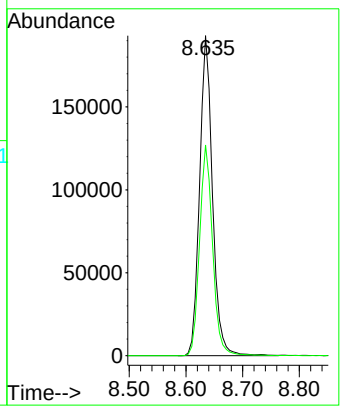


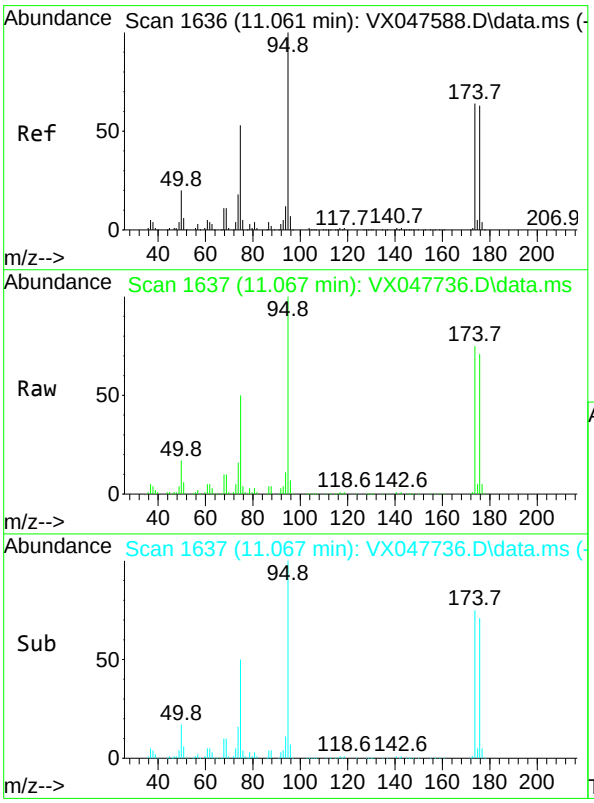
#50
Toluene-d8
Concen: 48.182 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047736.D
Acq: 23 Sep 2025 16:13

Instrument :
MSVOA_X
ClientSampleId :
TB04-20250911

Tgt Ion: 98 Resp: 304833

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.4

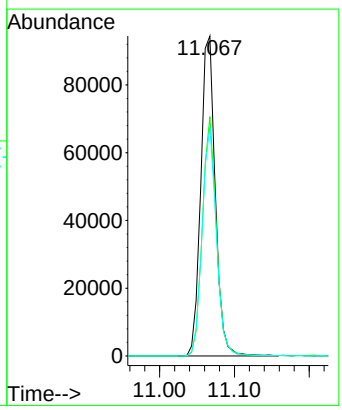


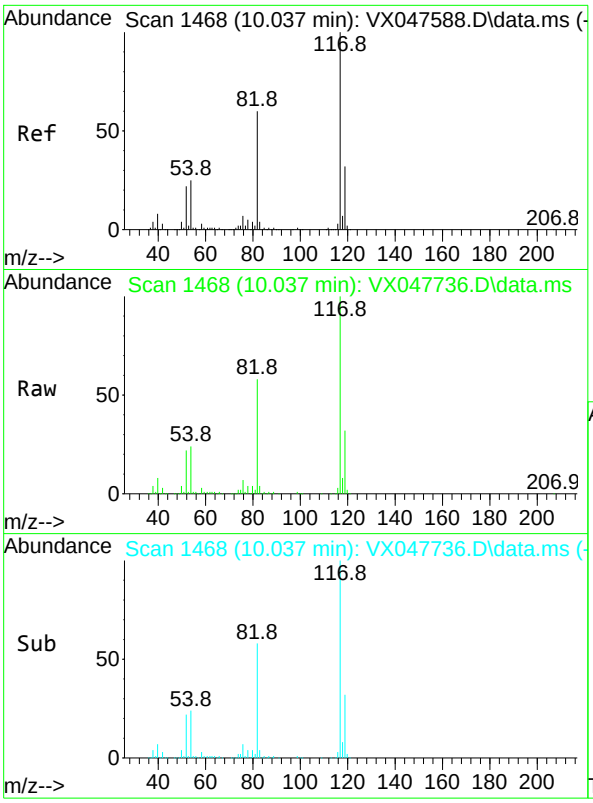


#62
4-Bromofluorobenzene
Concen: 53.026 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047736.D
Acq: 23 Sep 2025 16:13

Tgt Ion: 95 Resp: 127320

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	141.6
176	70.2	0.0	138.4



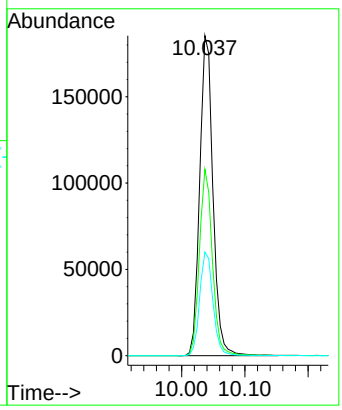


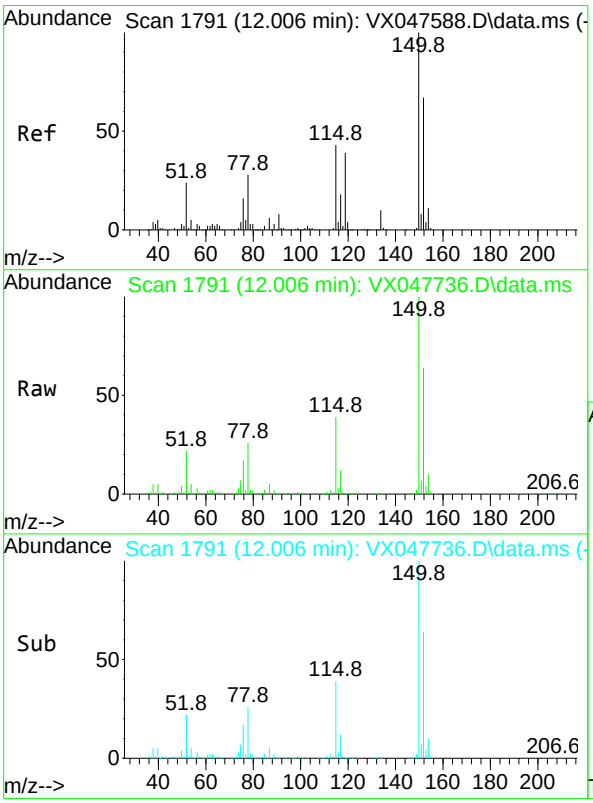
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047736.D
Acq: 23 Sep 2025 16:13

Instrument :
MSVOA_X
ClientSampleId :
TB04-20250911

Tgt Ion:117 Resp: 271011

Ion	Ratio	Lower	Upper
117	100		
82	58.3	47.8	71.6
119	32.4	25.2	37.8

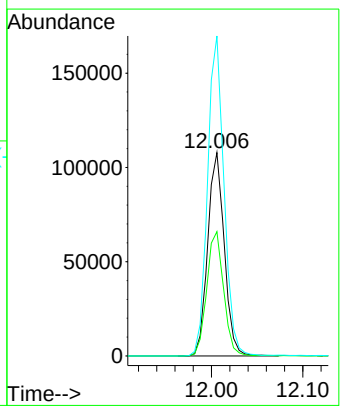




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047736.D
Acq: 23 Sep 2025 16:13

Tgt Ion:152 Resp: 135735

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.9	134.5
150	156.0	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TB05-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-18	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047728.D	1	09/23/25 13:25	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TB05-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-18	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047728.D	1	09/23/25 13:25	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.1		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	48.8		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	148000	5.538				
540-36-3	1,4-Difluorobenzene	304000	6.751				
3114-55-4	Chlorobenzene-d5	304000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	151000	12.006				

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	TB05-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-18	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047728.D	1	09/23/25 13:25	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047728.D
Acq On : 23 Sep 2025 13:25
Operator : JC/MD
Sample : Q3097-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB05-20250912

Quant Time: Sep 24 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	147598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	303576	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	304061	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	151284	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	117780	50.132	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.260%			
35) Dibromofluoromethane	5.379	113	97811	48.042	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.080%			
50) Toluene-d8	8.635	98	343858	48.810	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 97.620%			
62) 4-Bromofluorobenzene	11.067	95	144795	54.157	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.320%			

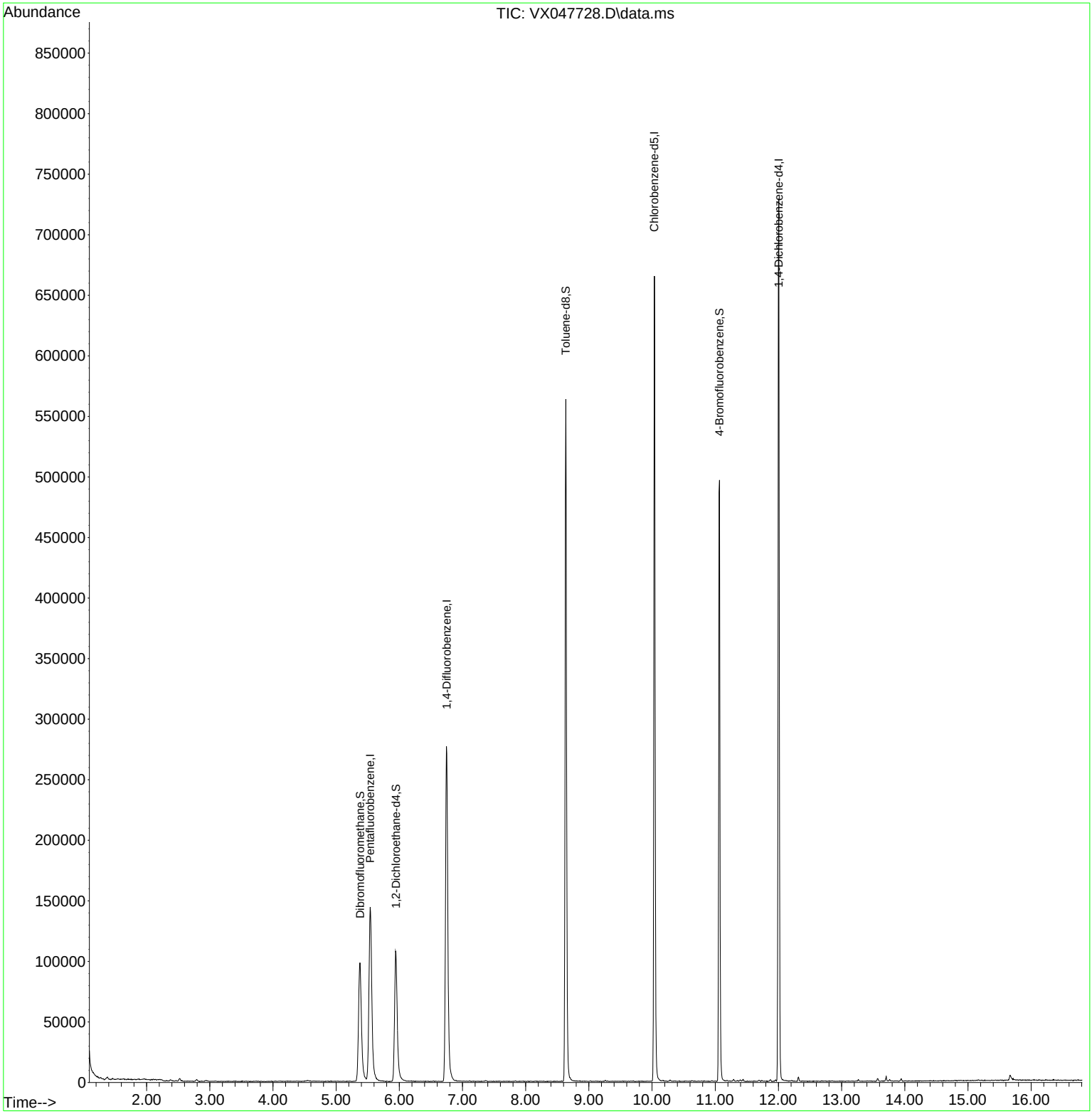
Target Compounds Qvalue

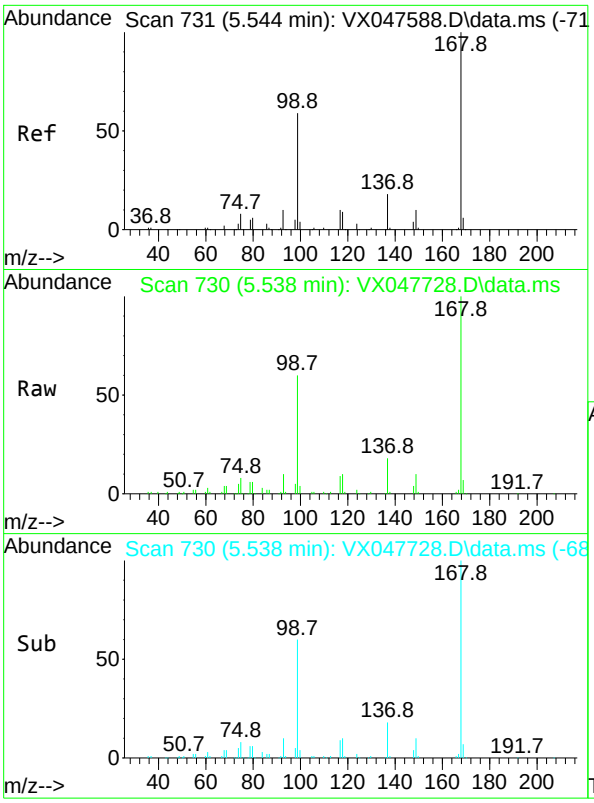
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047728.D
Acq On : 23 Sep 2025 13:25
Operator : JC/MD
Sample : Q3097-18
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB05-20250912

Quant Time: Sep 24 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



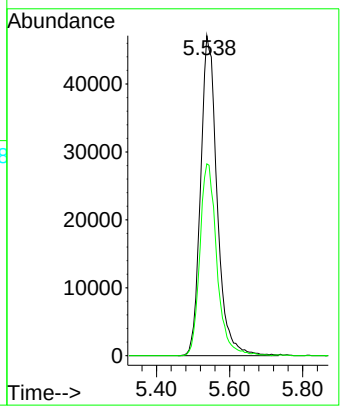


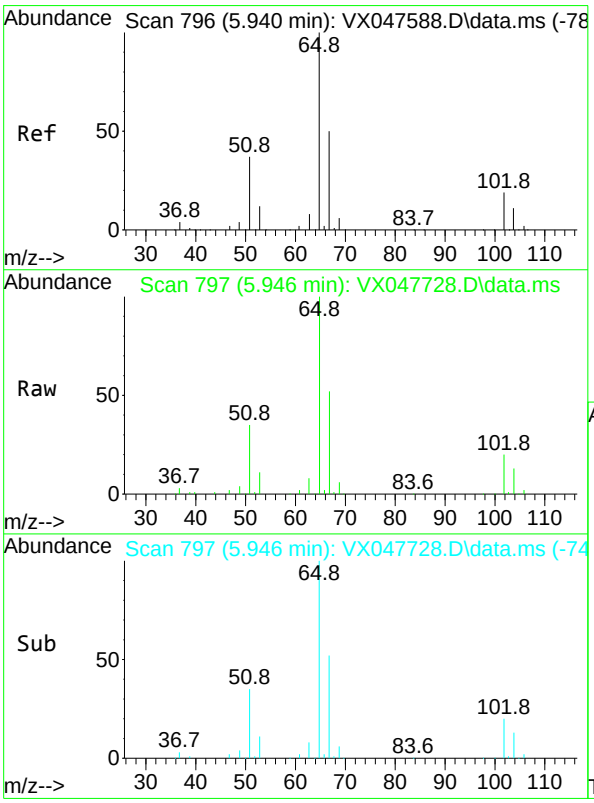
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047728.D
Acq: 23 Sep 2025 13:25

Instrument :
MSVOA_X
ClientSampleId :
TB05-20250912

Tgt Ion:168 Resp: 147598

Ion	Ratio	Lower	Upper
168	100		
99	60.0	48.8	73.2

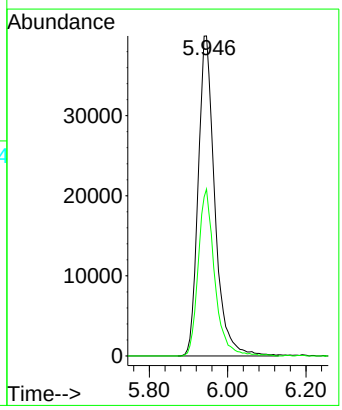


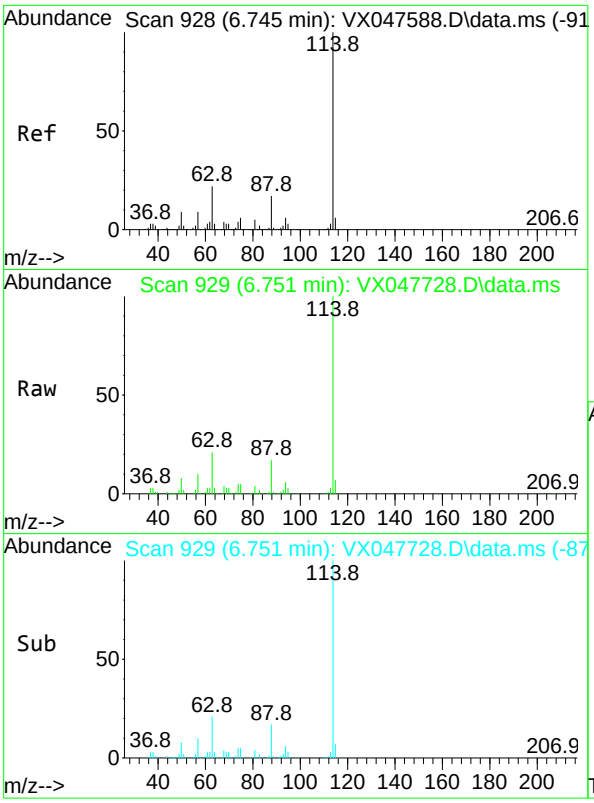


#33
1,2-Dichloroethane-d4
Concen: 50.132 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047728.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 65 Resp: 117780

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	103.0



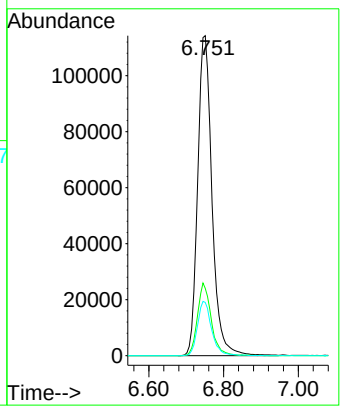


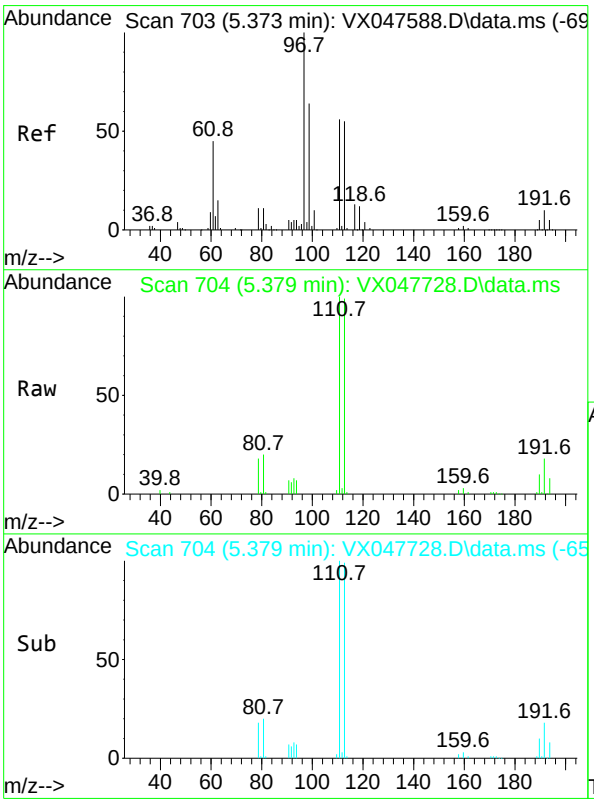
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047728.D
Acq: 23 Sep 2025 13:25

Instrument :
MSVOA_X
ClientSampleId :
TB05-20250912

Tgt Ion:114 Resp: 303576

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	44.0
88	16.6	0.0	34.2

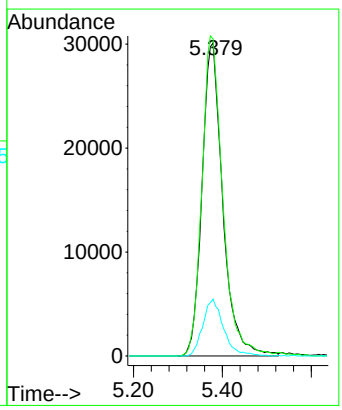


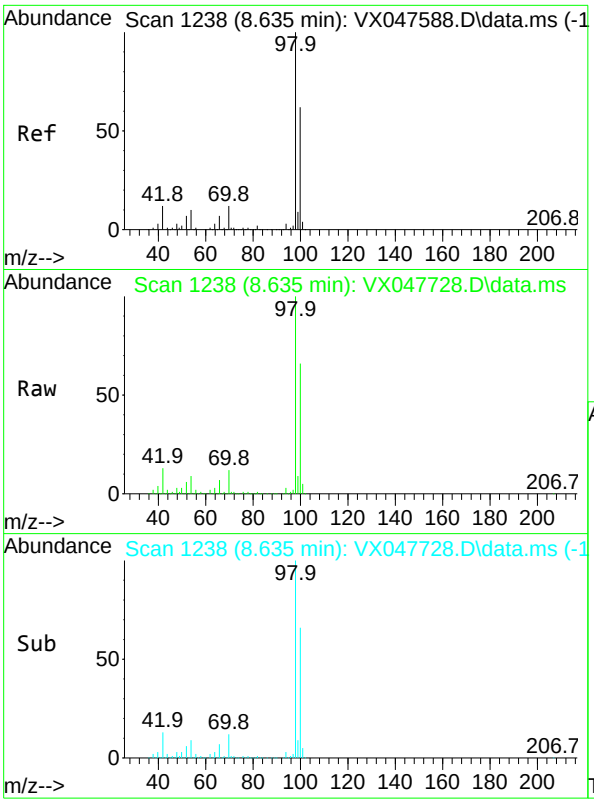


#35
Dibromofluoromethane
Concen: 48.042 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047728.D
Acq: 23 Sep 2025 13:25

Tgt Ion:113 Resp: 97811

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.9	121.3
192	18.1	14.2	21.4



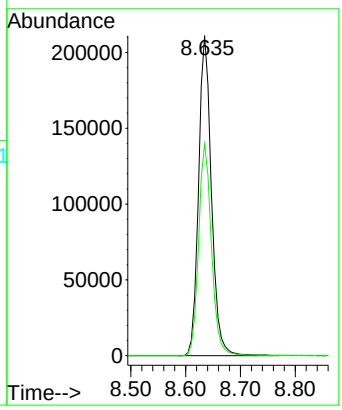


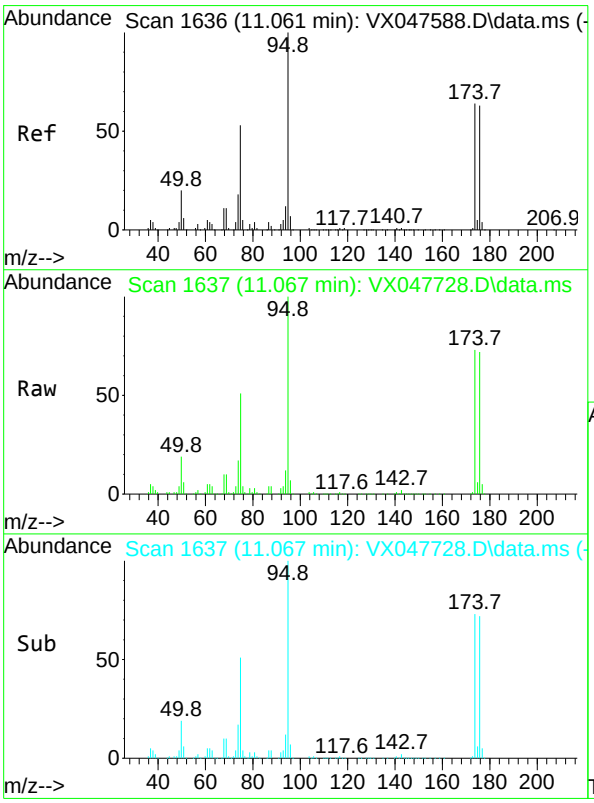
#50
Toluene-d8
Concen: 48.810 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047728.D
Acq: 23 Sep 2025 13:25

Instrument :
MSVOA_X
ClientSampleId :
TB05-20250912

Tgt Ion: 98 Resp: 343858

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4

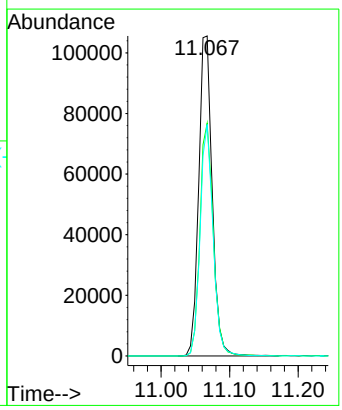


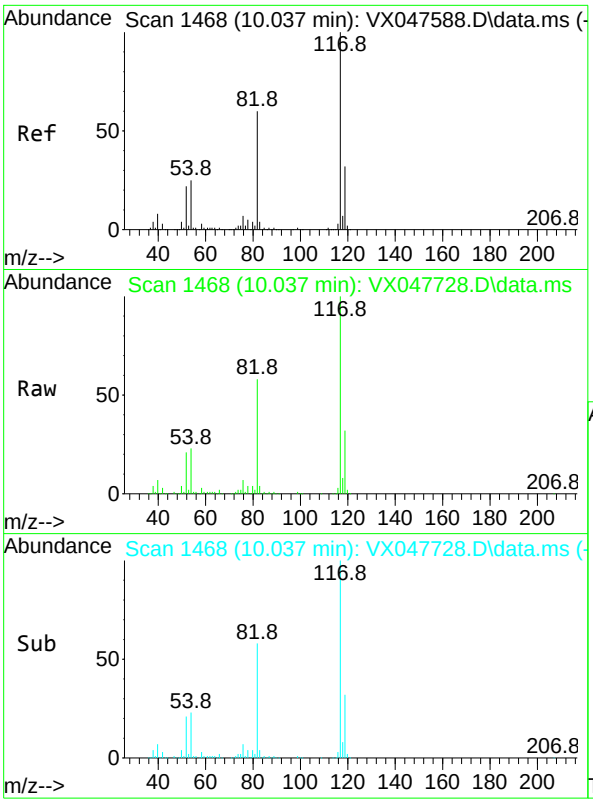


#62
4-Bromofluorobenzene
Concen: 54.157 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047728.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 95 Resp: 144795

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	69.4	0.0	138.4



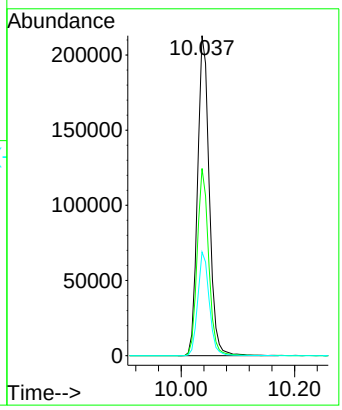


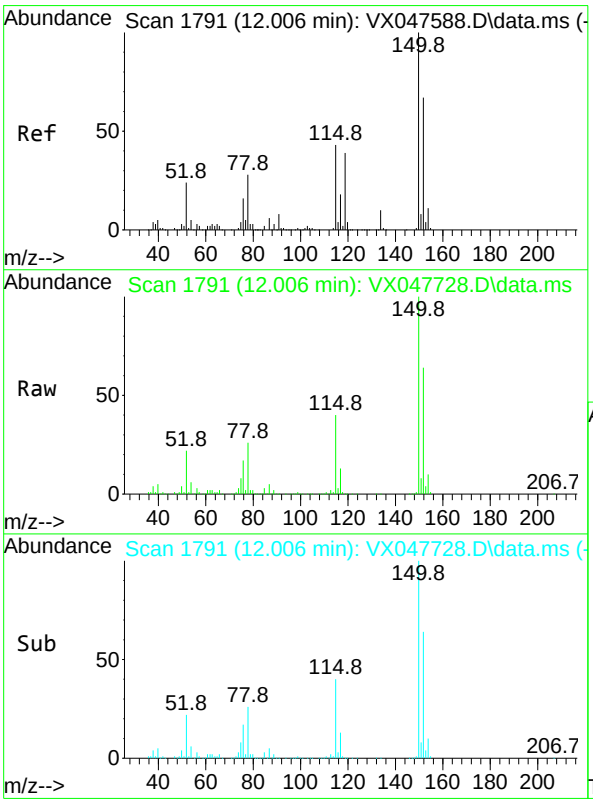
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047728.D
Acq: 23 Sep 2025 13:25

Instrument :
MSVOA_X
ClientSampleId :
TB05-20250912

Tgt Ion:117 Resp: 304061

Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.8	71.6
119	32.4	25.2	37.8

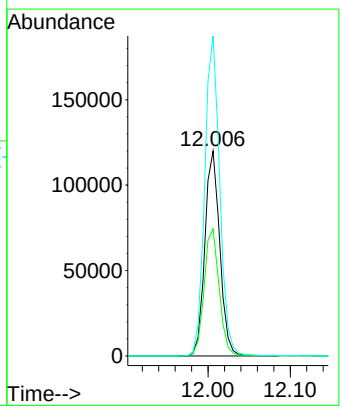




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047728.D
Acq: 23 Sep 2025 13:25

Tgt Ion:152 Resp: 151284

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.9	134.5
150	156.8	0.0	352.0



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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-19	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047737.D	1	09/23/25 16:34	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.34	J	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	16.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	6.90		0.23	0.75	1.00	ug/L
67-64-1	Acetone	4.50	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	4.00		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.51	J	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	640	E	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-19	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047737.D	1	09/23/25 16:34	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	6.40		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.9		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	46.7		89 - 112		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	134000	5.538				
540-36-3	1,4-Difluorobenzene	282000	6.745				
3114-55-4	Chlorobenzene-d5	276000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	142000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-19	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047737.D	1	09/23/25 16:34	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047737.D
Acq On : 23 Sep 2025 16:34
Operator : JC/MD
Sample : Q3097-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 24 01:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	133765	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	281791	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	275514	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141902	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	110502	51.898	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.800%			
35) Dibromofluoromethane	5.379	113	91324	48.324	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.640%			
50) Toluene-d8	8.635	98	305233	46.677	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 93.360%			
62) 4-Bromofluorobenzene	11.067	95	133881	53.946	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	474	0.342	ug/l	89
7) Trichlorofluoromethane	1.898	101	657	0.248	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.337	101	26053	16.839	ug/l	99
12) 1,1-Dichloroethene	2.325	96	11018	6.933	ug/l	94
16) Acetone	2.386	43	4167m	4.501	ug/l	
27) cis-1,2-Dichloroethene	4.489	96	8455	4.035	ug/l	88
29) Tetrahydrofuran	5.013	42	2676	3.852	ug/l #	73
30) Chloroform	5.080	83	1745	0.511	ug/l #	81
44) Trichloroethene	7.111	130	1292636	637.467	ug/l	96
55) 1,1,2-Trichloroethane	9.141	97	999	0.501	ug/l	91
64) Tetrachloroethene	9.257	164	11467	6.385	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047737.D
Acq On : 23 Sep 2025 16:34
Operator : JC/MD
Sample : Q3097-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 24 01:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
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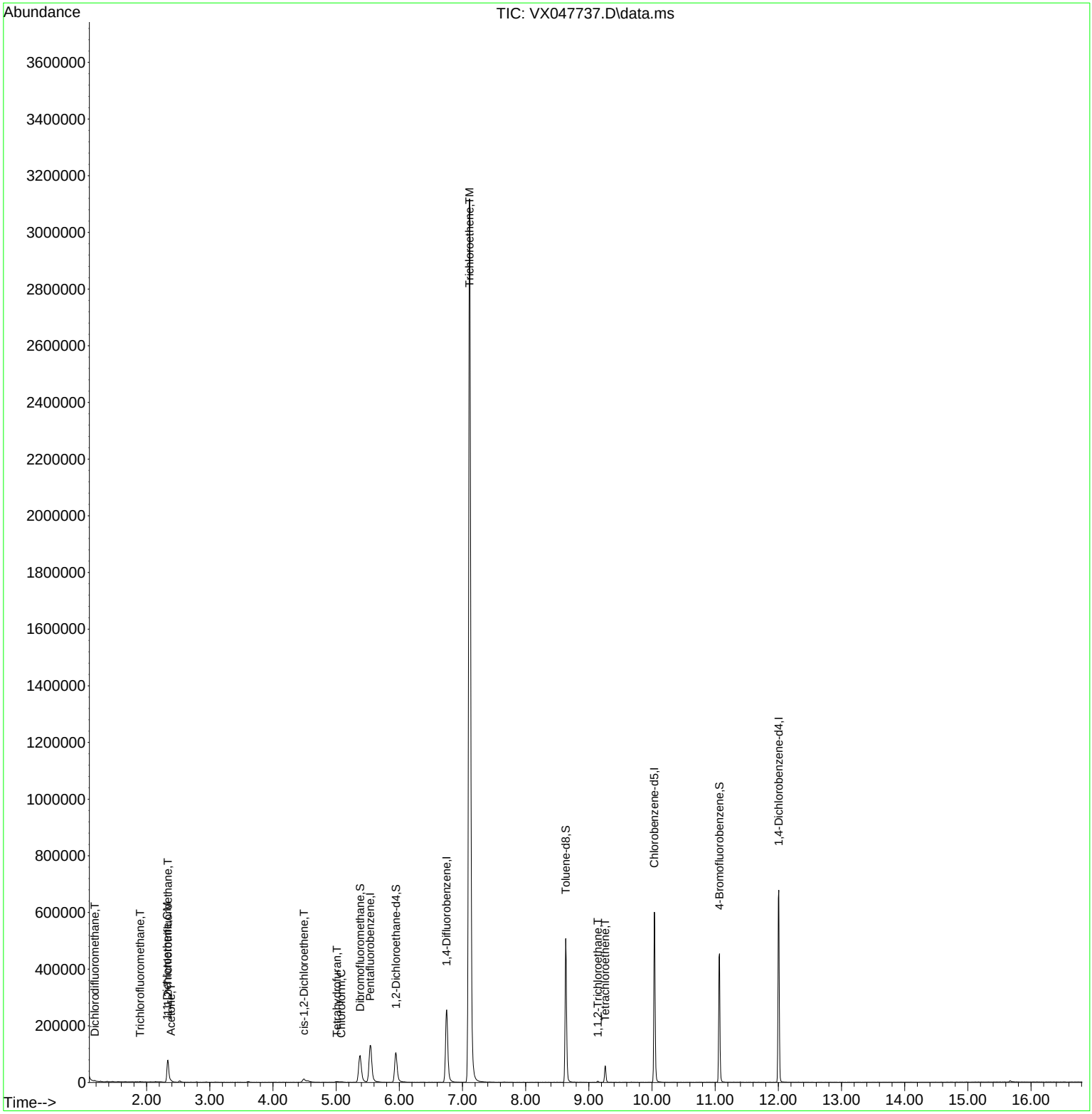
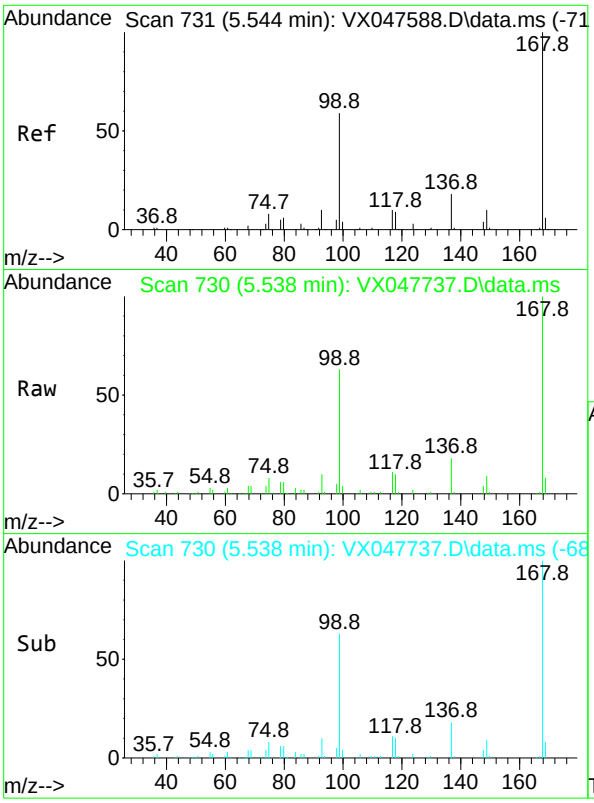
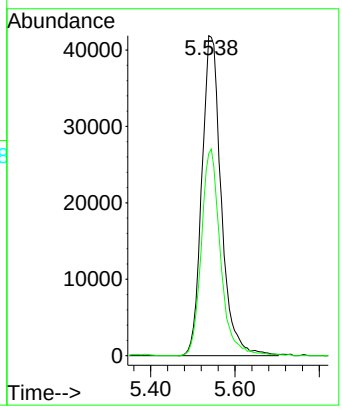




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:168 Resp: 13376

Ion	Ratio	Lower	Upper
168	100		
99	63.2	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
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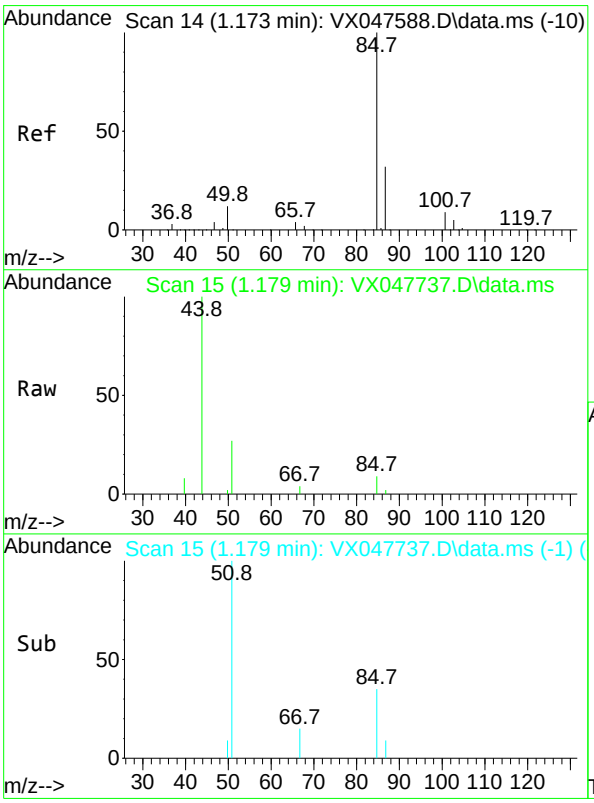
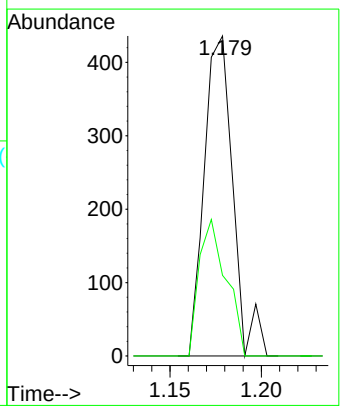
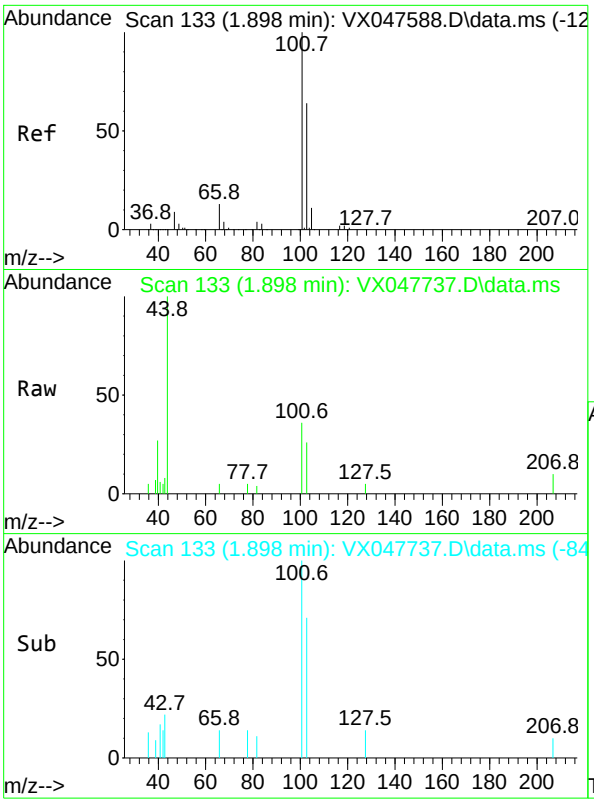


#2
Dichlorodifluoromethane
Concen: 0.342 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 85 Resp: 474

Ion	Ratio	Lower	Upper
85	100		
87	25.2	15.8	47.3

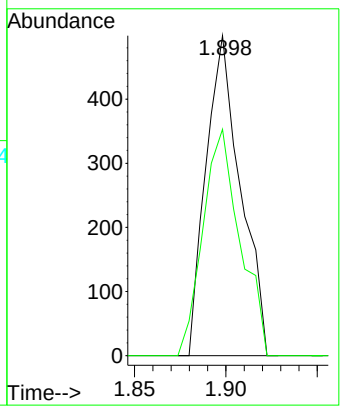




#7
Trichlorofluoromethane
Concen: 0.248 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:101 Resp: 65

Ion	Ratio	Lower	Upper
101	100		
103	70.7	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
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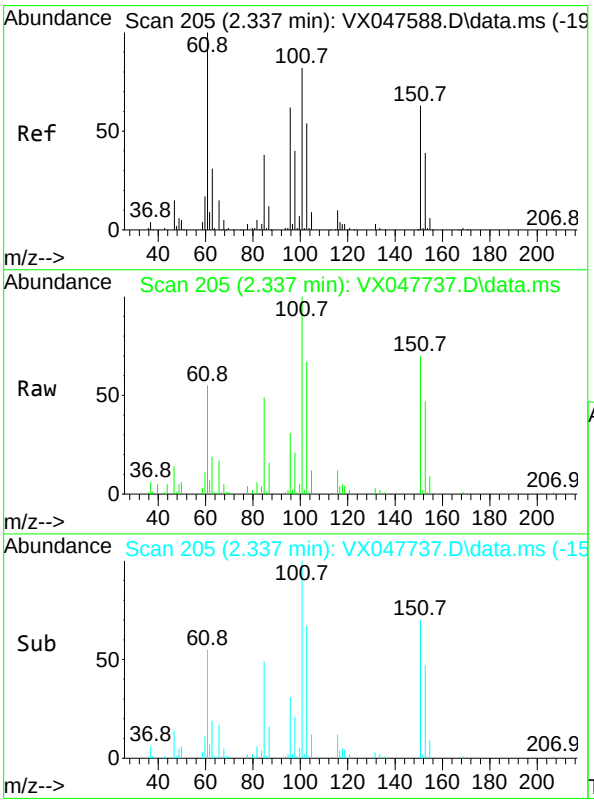
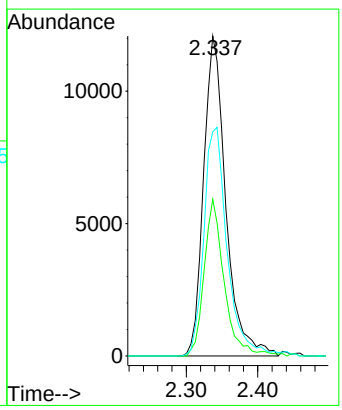
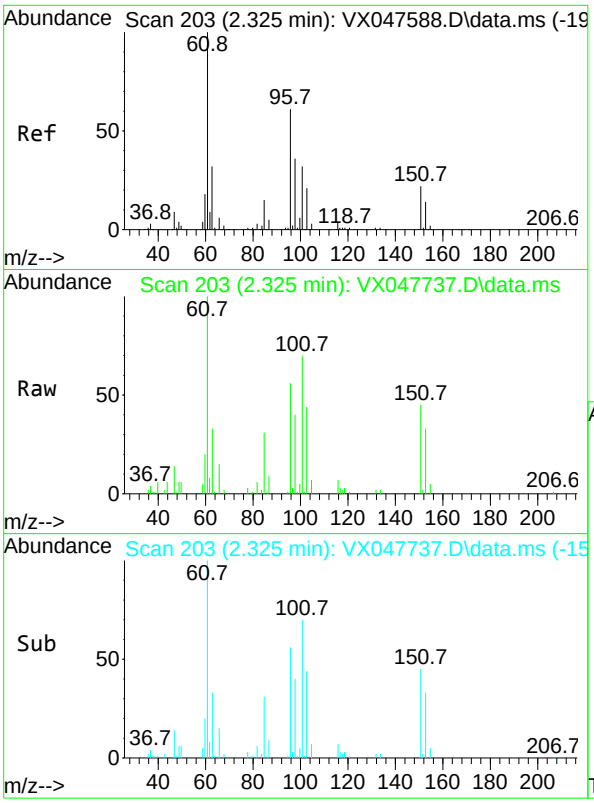


#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.839 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:101 Resp: 26053

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	75.5	59.4	89.0

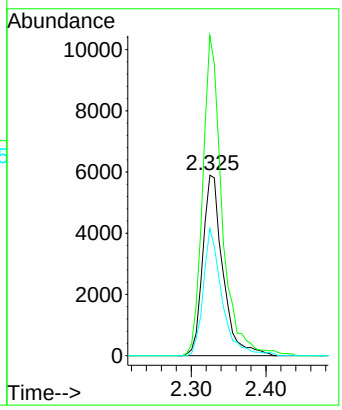




#12
1,1-Dichloroethene
Concen: 6.933 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 96 Resp: 1101

Ion	Ratio	Lower	Upper
96	100		
61	169.0	131.0	196.6
98	67.2	47.7	71.5



Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
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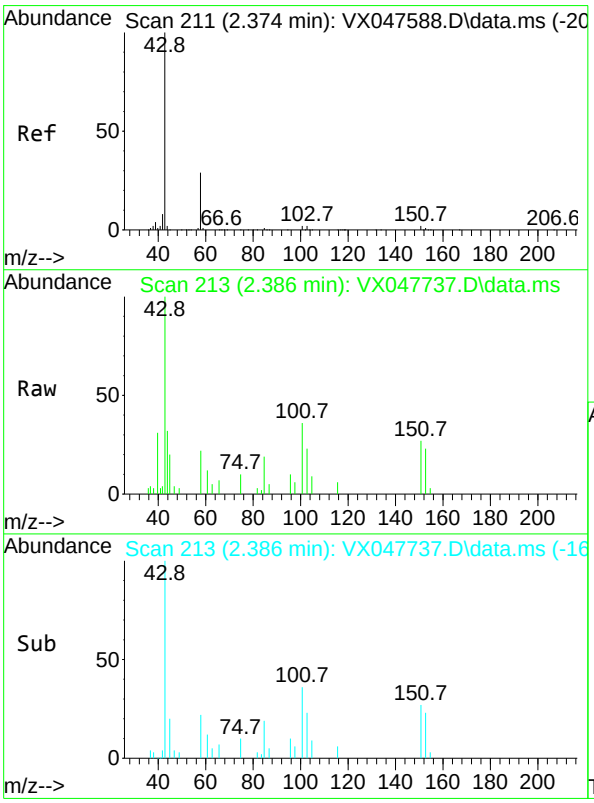
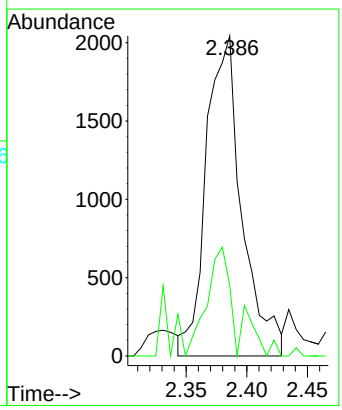
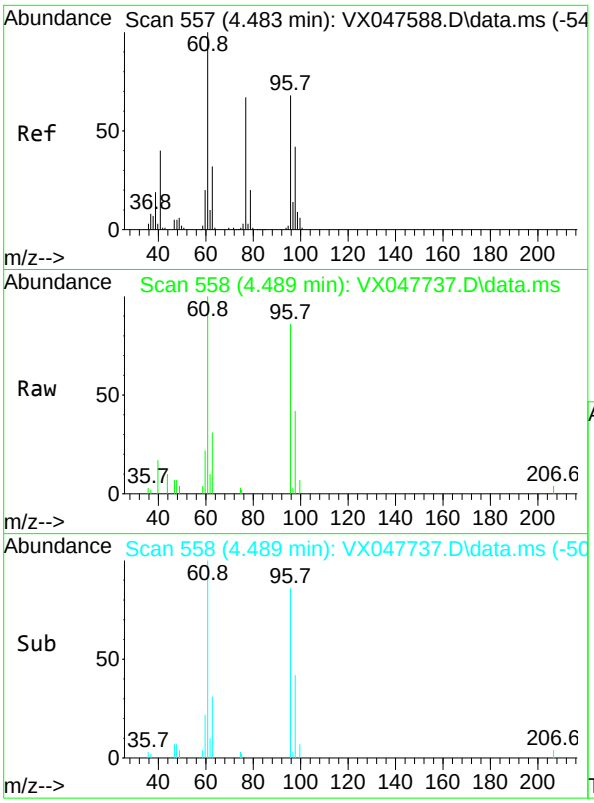


#16
Acetone
Concen: 4.501 ug/l m
RT: 2.386 min Scan# 213
Delta R.T. 0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 43 Resp: 4167

Ion	Ratio	Lower	Upper
43	100		
58	22.1	23.4	35.0#

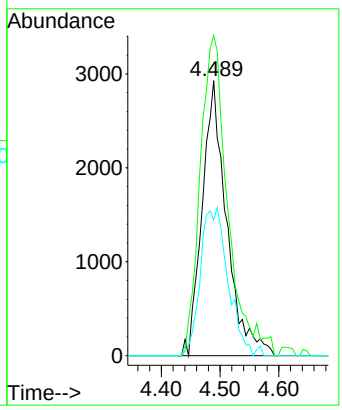




#27
cis-1,2-Dichloroethene
Concen: 4.035 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 96 Resp: 845

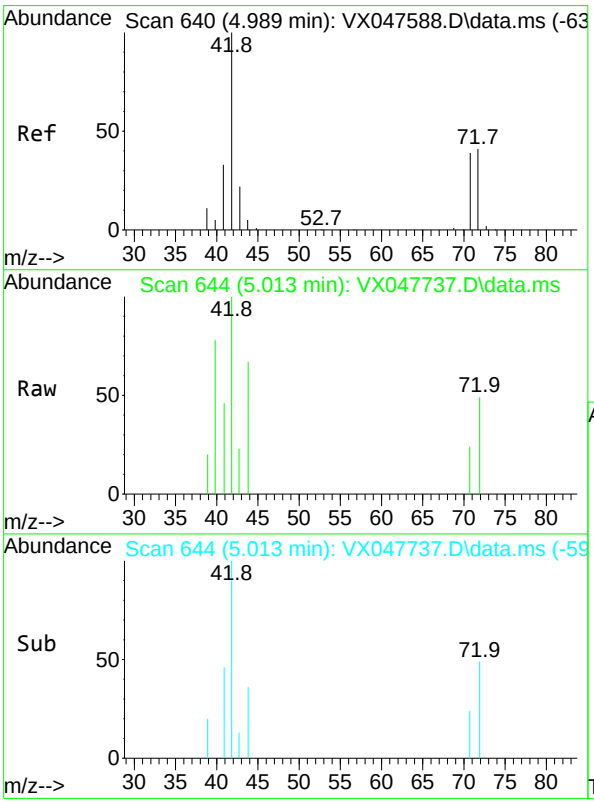
Ion	Ratio	Lower	Upper
96	100		
61	131.2	0.0	303.2
98	60.6	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
APPROVED

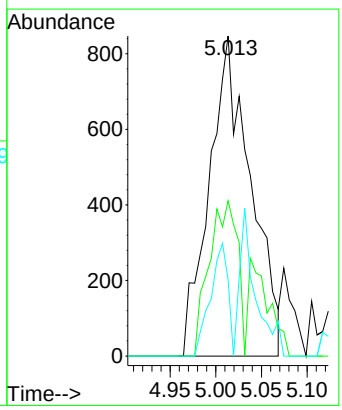
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

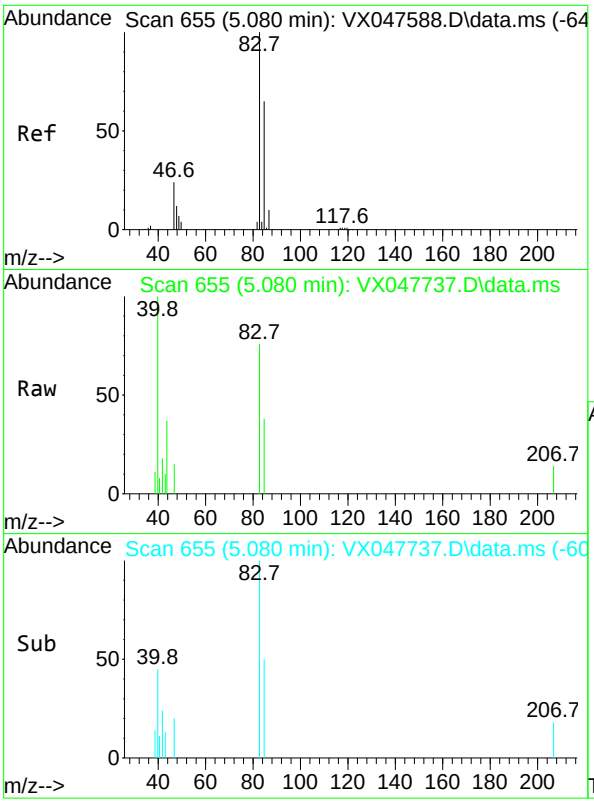


#29
Tetrahydrofuran
Concen: 3.852 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.024 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 42 Resp: 2676

Ion	Ratio	Lower	Upper
42	100		
72	33.2	34.2	51.2#
71	14.9	31.9	47.9#





#30
Chloroform
Concen: 0.511 ug/l
RT: 5.080 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 83 Resp: 174

Ion	Ratio	Lower	Upper
83	100		
85	50.1	51.8	77.6

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
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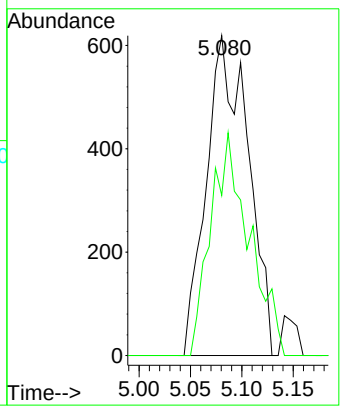
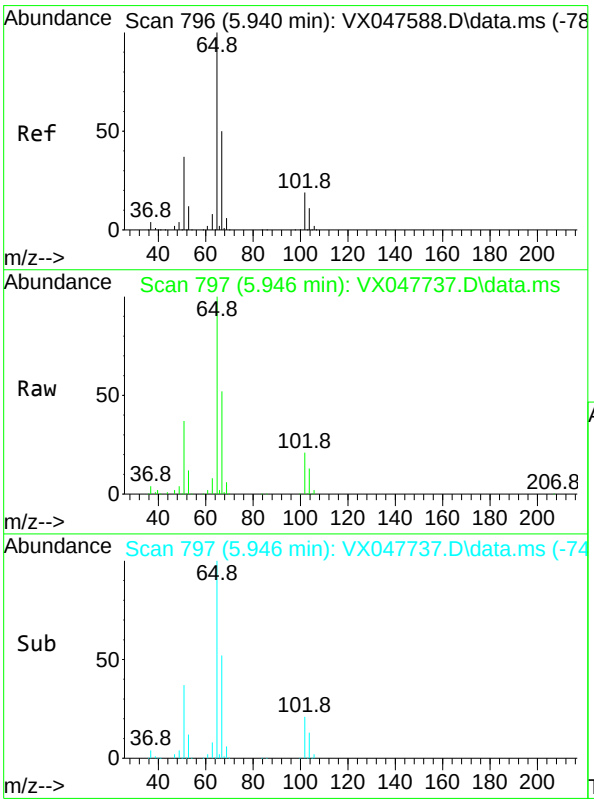
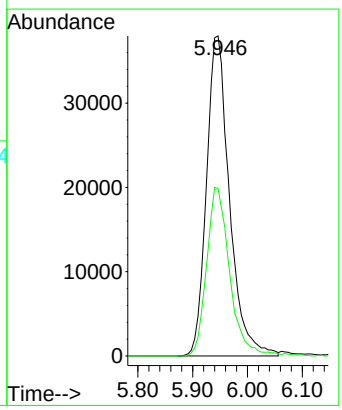


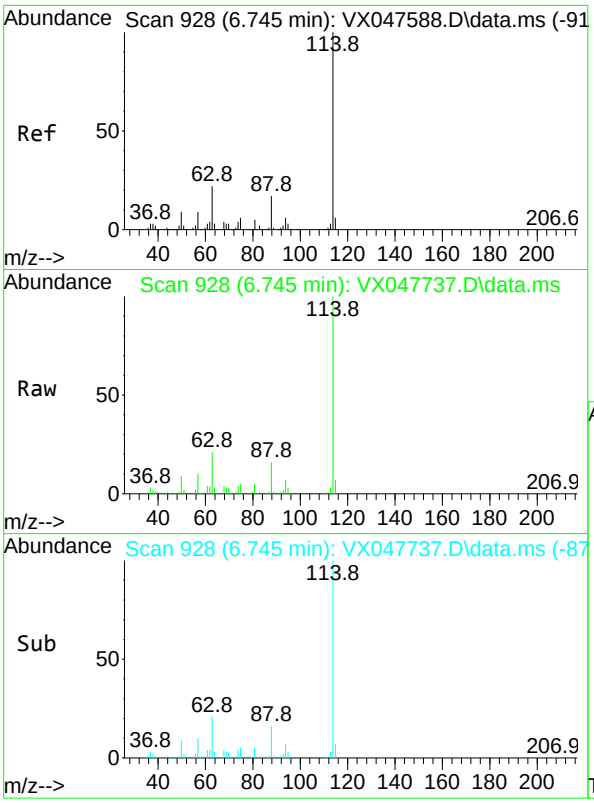


#33
1,2-Dichloroethane-d4
Concen: 51.898 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 65 Resp: 110502

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	103.0

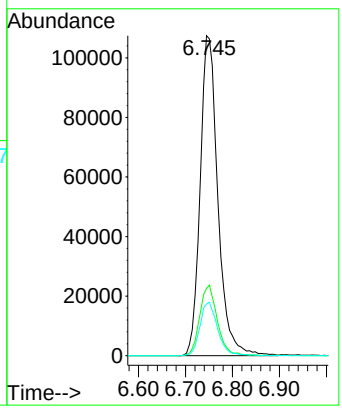




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:114 Resp: 28179

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	44.0
88	16.1	0.0	34.2



Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
APPROVED

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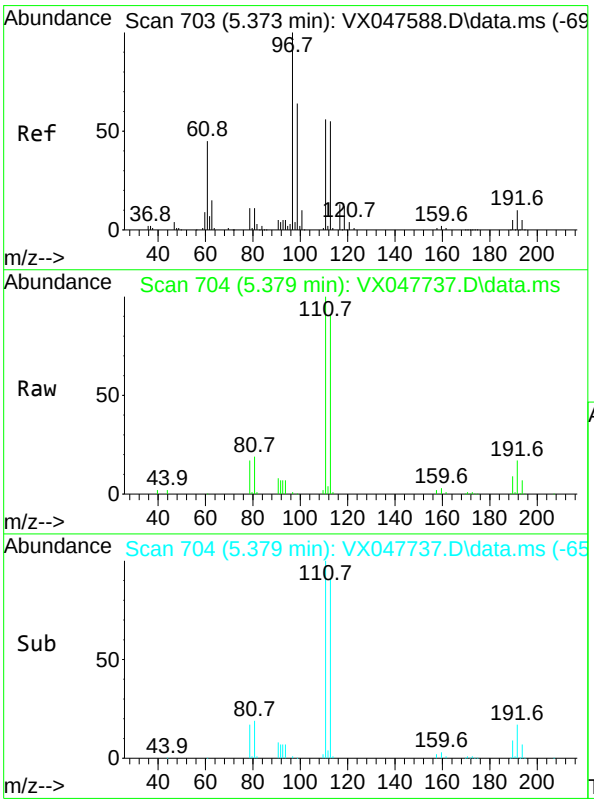
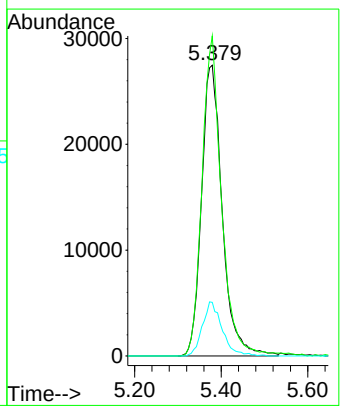
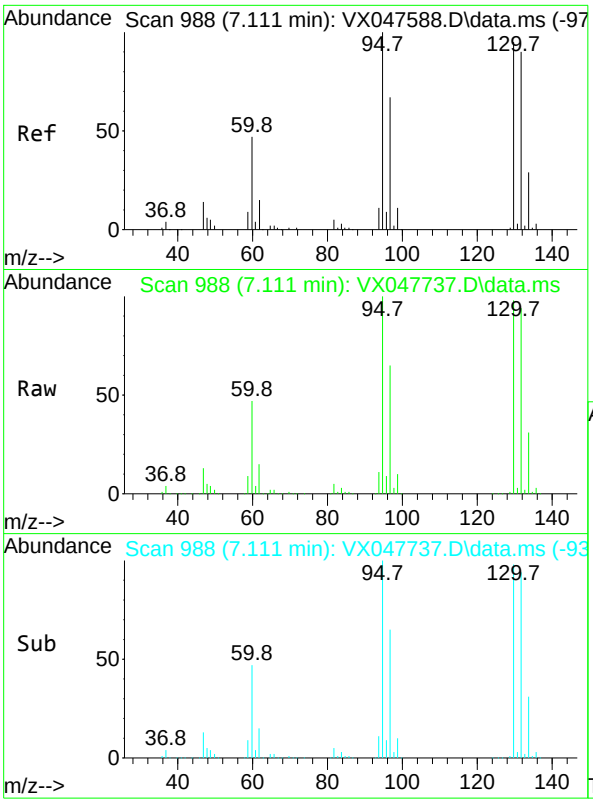


#35
Dibromofluoromethane
Concen: 48.324 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:113 Resp: 91324

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.9	121.3
192	17.7	14.2	21.4

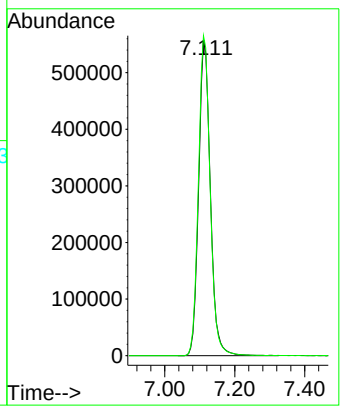




#44
Trichloroethene
Concen: 637.467 ug/l
RT: 7.111 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:130 Resp: 129263

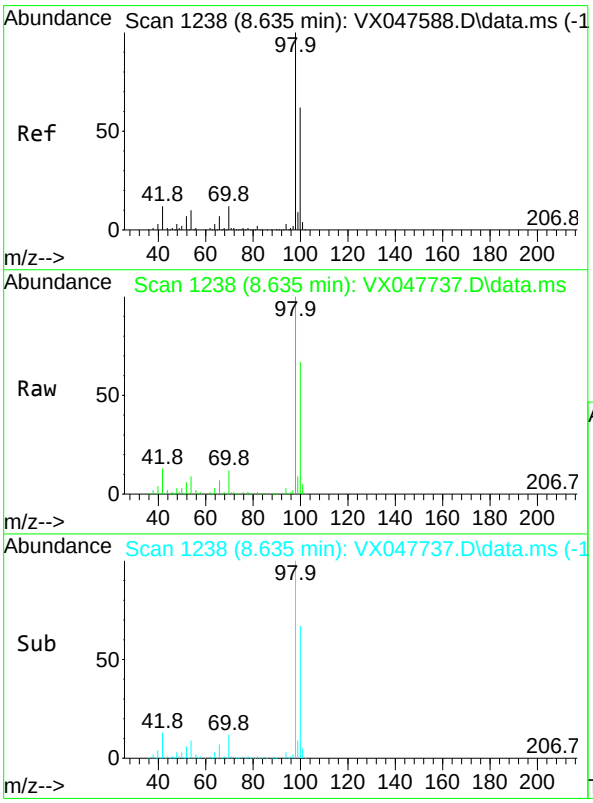
Ion	Ratio	Lower	Upper
130	100		
95	101.7	0.0	210.8



Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
APPROVED

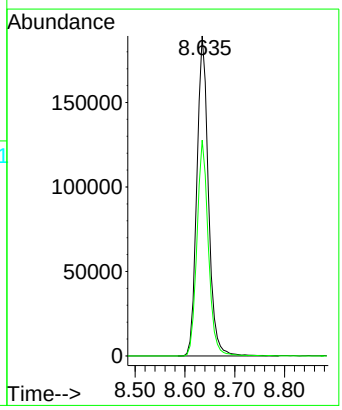
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

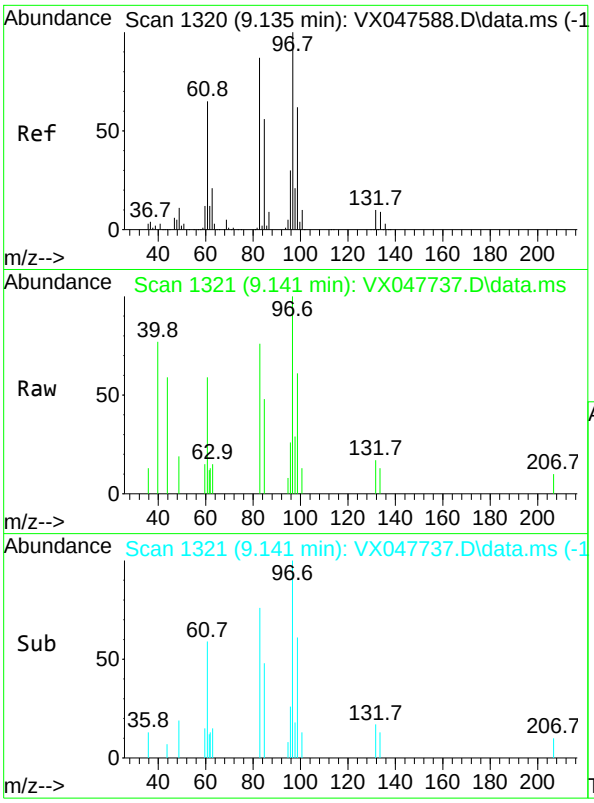


#50
Toluene-d8
Concen: 46.677 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 98 Resp: 305233

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.0	79.4

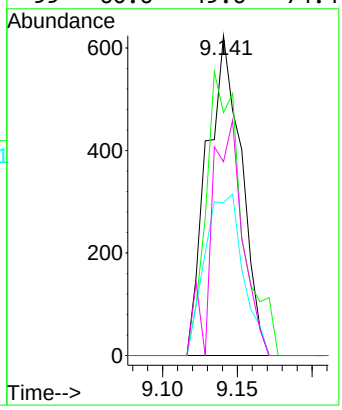




#55
1,1,2-Trichloroethane
Concen: 0.501 ug/l
RT: 9.141 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 97 Resp: 99

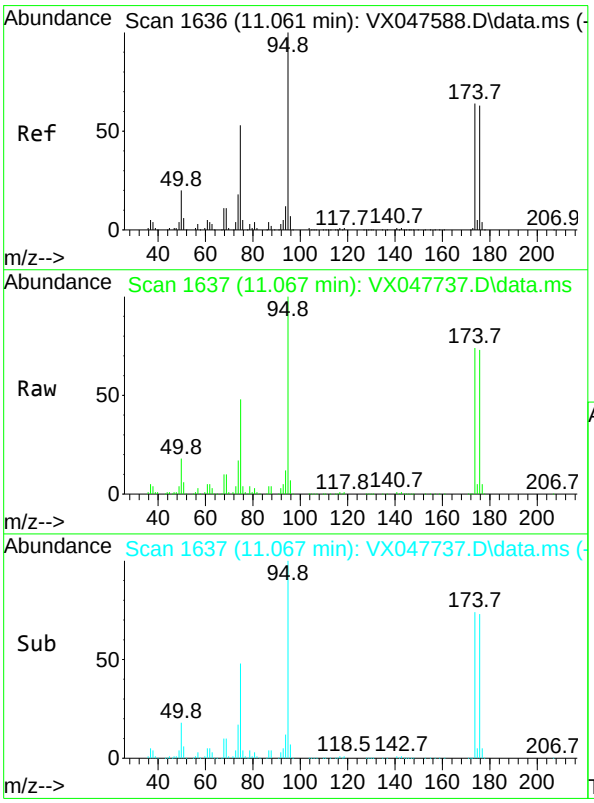
Ion	Ratio	Lower	Upper
97	100		
83	76.0	69.6	104.4
85	47.8	45.0	67.6
99	60.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
APPROVED

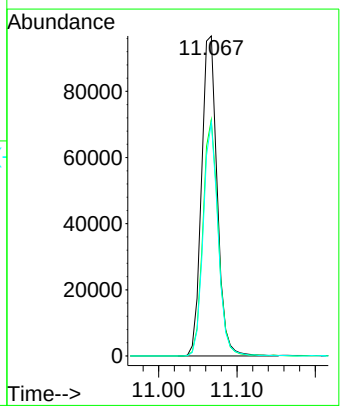
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

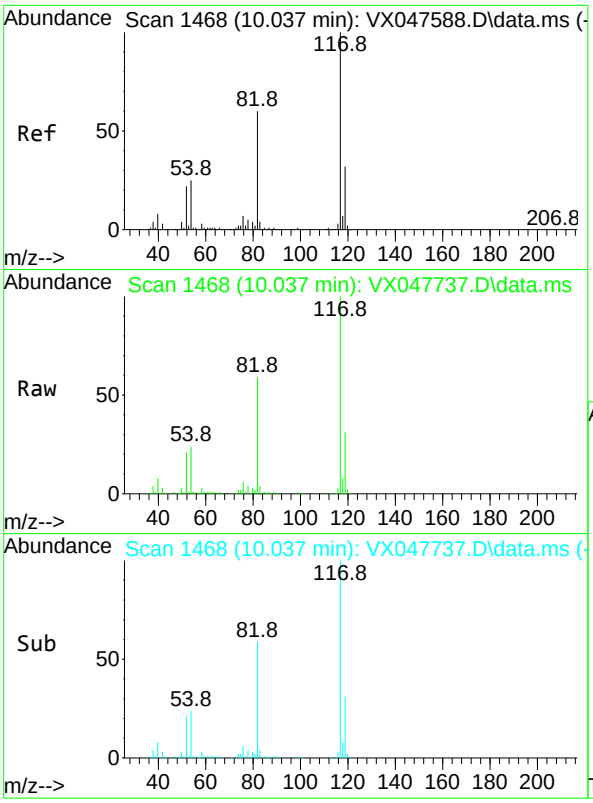


#62
4-Bromofluorobenzene
Concen: 53.946 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 95 Resp: 133881

Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	141.6
176	69.5	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

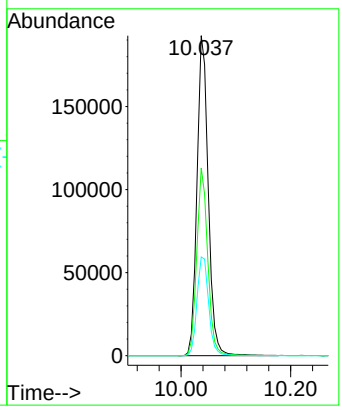
Tgt Ion:117 Resp: 27551

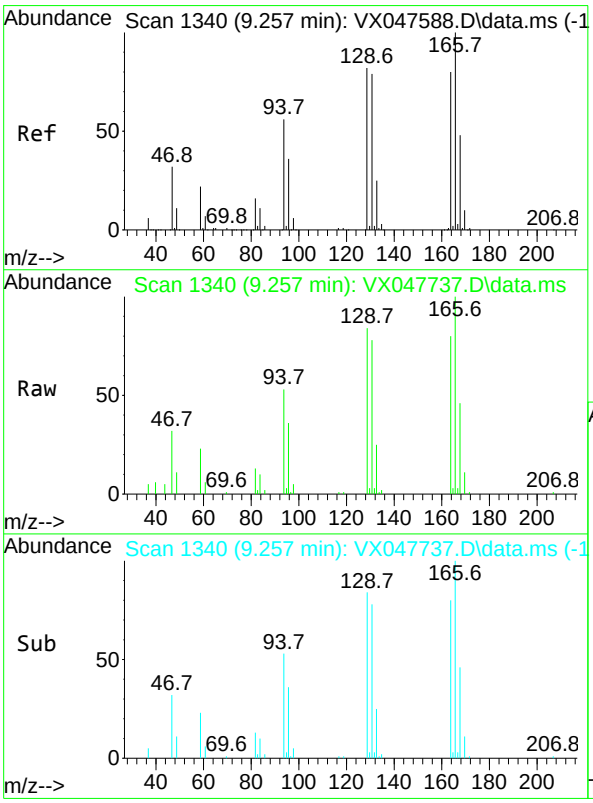
Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.8	71.6
119	30.8	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

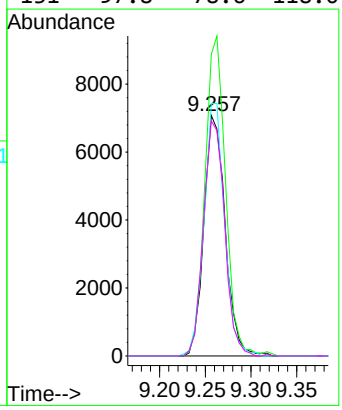


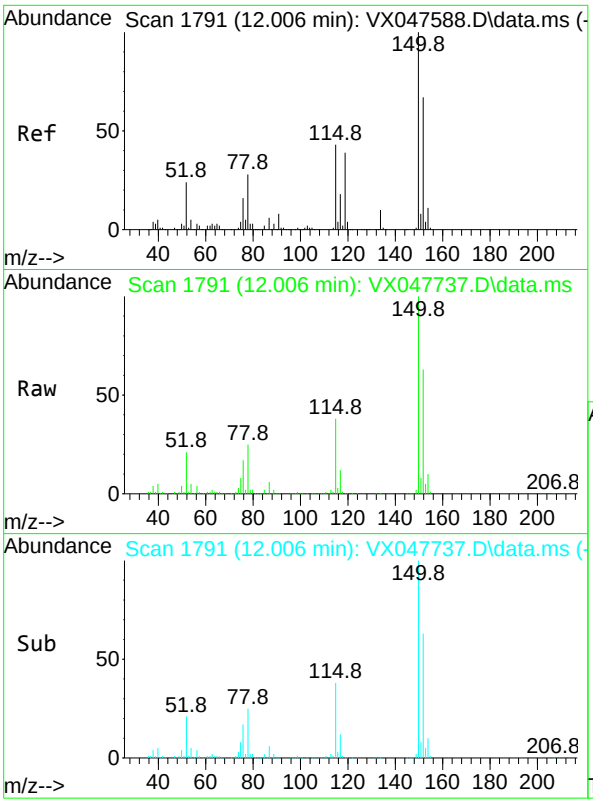


#64
Tetrachloroethene
Concen: 6.385 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:164 Resp: 11467

Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.2	150.2
129	105.0	81.8	122.6
131	97.8	78.6	118.0

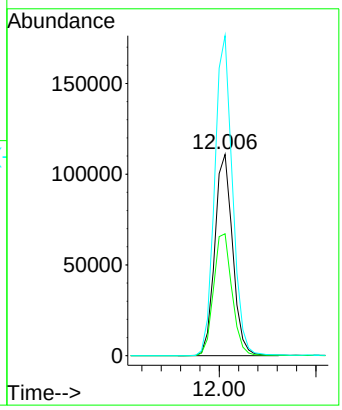




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:152 Resp: 14190

Ion	Ratio	Lower	Upper
152	100		
115	62.7	44.9	134.5
150	158.8	0.0	352.0



Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-19DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047775.D	10	09/24/25 15:02	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	5.00	UD	2.20	5.00	10.0	ug/L
74-87-3	Chloromethane	5.00	UD	3.20	5.00	10.0	ug/L
75-01-4	Vinyl Chloride	7.50	UD	2.60	7.50	10.0	ug/L
74-83-9	Bromomethane	37.5	UD	14.4	37.5	50.0	ug/L
75-00-3	Chloroethane	7.50	UD	4.70	7.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	5.00	UD	3.30	5.00	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	16.1	D	2.50	5.00	10.0	ug/L
75-35-4	1,1-Dichloroethene	7.50	UD	2.30	7.50	10.0	ug/L
67-64-1	Acetone	37.5	UD	15.1	37.5	50.0	ug/L
75-15-0	Carbon Disulfide	7.50	UD	2.10	7.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	UD	1.60	5.00	10.0	ug/L
79-20-9	Methyl Acetate	7.50	UD	2.70	7.50	10.0	ug/L
75-09-2	Methylene Chloride	5.00	UD	2.80	5.00	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	5.00	UD	2.30	5.00	10.0	ug/L
75-34-3	1,1-Dichloroethane	5.00	UD	2.30	5.00	10.0	ug/L
110-82-7	Cyclohexane	25.0	UD	14.5	25.0	50.0	ug/L
78-93-3	2-Butanone	25.0	UD	9.80	25.0	50.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	2.50	5.00	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	7.50	UD	1.90	7.50	10.0	ug/L
74-97-5	Bromochloromethane	5.00	UD	2.20	5.00	10.0	ug/L
67-66-3	Chloroform	5.00	UD	2.50	5.00	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	UD	2.00	5.00	10.0	ug/L
108-87-2	Methylcyclohexane	5.00	UD	1.60	5.00	10.0	ug/L
71-43-2	Benzene	5.00	UD	1.50	5.00	10.0	ug/L
107-06-2	1,2-Dichloroethane	5.00	UD	2.20	5.00	10.0	ug/L
79-01-6	Trichloroethene	590	D	0.93	7.50	10.0	ug/L
78-87-5	1,2-Dichloropropane	5.00	UD	2.00	5.00	10.0	ug/L
75-27-4	Bromodichloromethane	5.00	UD	2.20	5.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	UD	6.80	25.0	50.0	ug/L
108-88-3	Toluene	5.00	UD	1.40	5.00	10.0	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-19DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047775.D	10	09/24/25 15:02	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	5.00	UD	1.70	5.00	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	UD	1.60	5.00	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	5.00	UD	2.10	5.00	10.0	ug/L
591-78-6	2-Hexanone	25.0	UD	8.90	25.0	50.0	ug/L
124-48-1	Dibromochloromethane	5.00	UD	1.80	5.00	10.0	ug/L
106-93-4	1,2-Dibromoethane	5.00	UD	1.50	5.00	10.0	ug/L
127-18-4	Tetrachloroethene	6.50	JD	2.30	5.00	10.0	ug/L
108-90-7	Chlorobenzene	5.00	UD	1.20	5.00	10.0	ug/L
100-41-4	Ethyl Benzene	5.00	UD	1.30	5.00	10.0	ug/L
179601-23-1	m/p-Xylenes	10.0	UD	2.40	10.0	20.0	ug/L
95-47-6	o-Xylene	5.00	UD	1.20	5.00	10.0	ug/L
100-42-5	Styrene	5.00	UD	1.50	5.00	10.0	ug/L
75-25-2	Bromoform	5.00	UD	1.90	5.00	10.0	ug/L
98-82-8	Isopropylbenzene	5.00	UD	1.20	5.00	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	UD	2.60	5.00	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	UD	1.60	5.00	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	UD	1.90	5.00	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	UD	1.60	5.00	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	7.50	UD	5.30	7.50	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.00	UD	2.00	5.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.50	UD	2.00	7.50	10.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.1		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	48.8		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	5.544				
540-36-3	1,4-Difluorobenzene	275000	6.751				
3114-55-4	Chlorobenzene-d5	279000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	140000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D1-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-19DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047775.D	10	09/24/25 15:02	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047775.D
Acq On : 24 Sep 2025 15:02
Operator : JC/MD
Sample : Q3097-19DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912DL

Quant Time: Sep 25 01:16:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

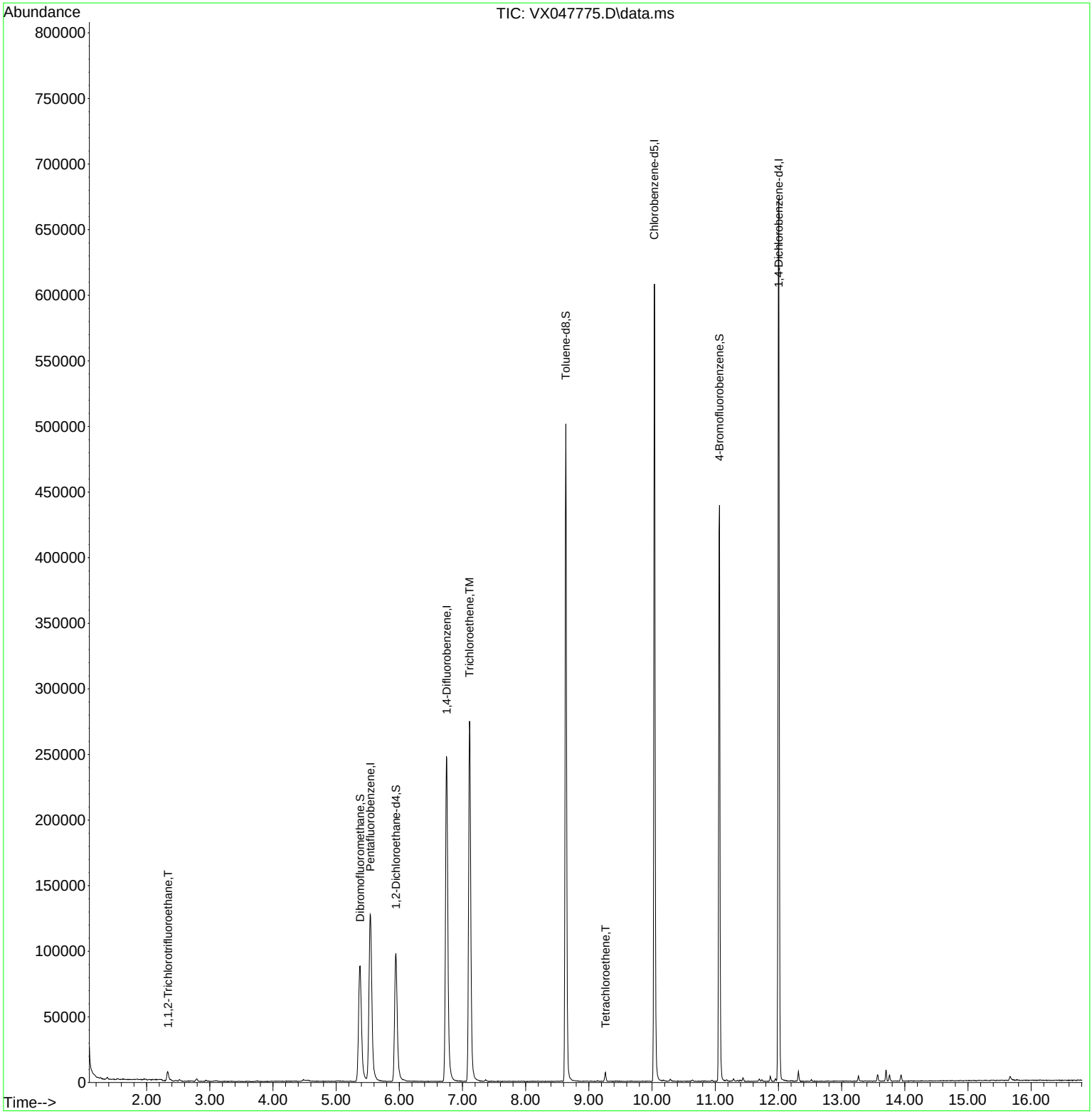
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	131595	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	275490	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	279019	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	140354	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	106994	51.079	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.160%			
35) Dibromofluoromethane	5.379	113	88232	47.755	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.520%			
50) Toluene-d8	8.635	98	311658	48.750	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 97.500%			
62) 4-Bromofluorobenzene	11.067	95	130752	53.890	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.780%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	2445	1.606	ug/l	98
44) Trichloroethene	7.111	130	117943	59.494	ug/l	99
64) Tetrachloroethene	9.263	164	1176	0.647	ug/l	88

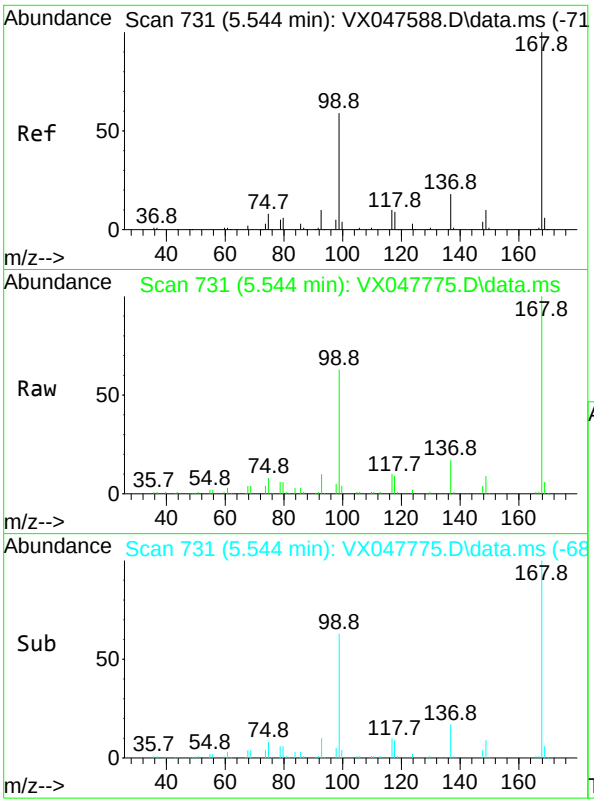
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047775.D
Acq On : 24 Sep 2025 15:02
Operator : JC/MD
Sample : Q3097-19DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912DL

Quant Time: Sep 25 01:16:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



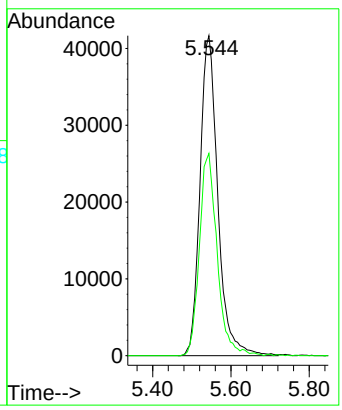


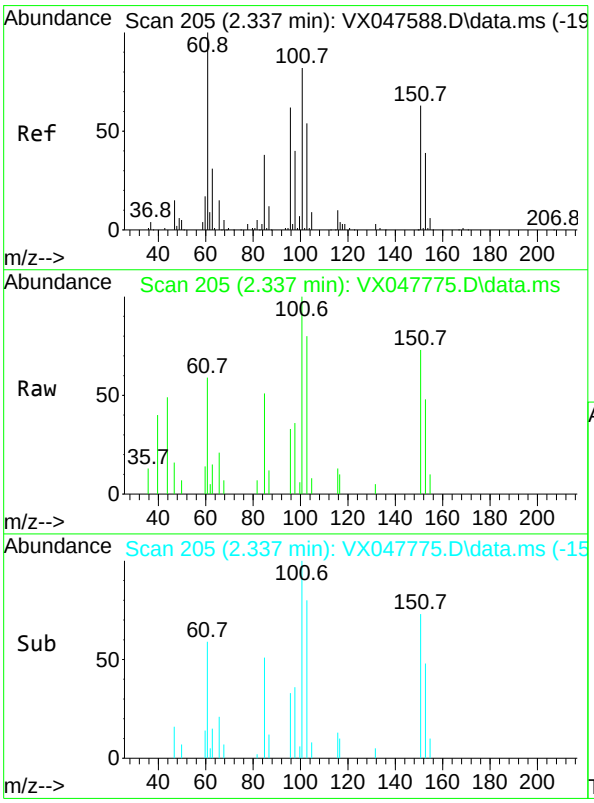
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:168 Resp: 131595

Ion	Ratio	Lower	Upper
168	100		
99	63.2	48.8	73.2

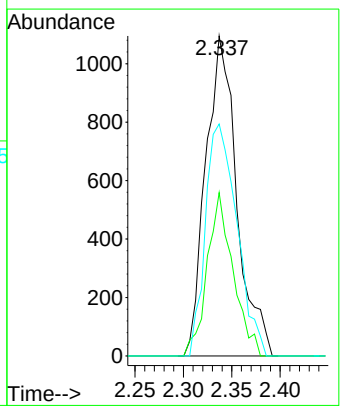


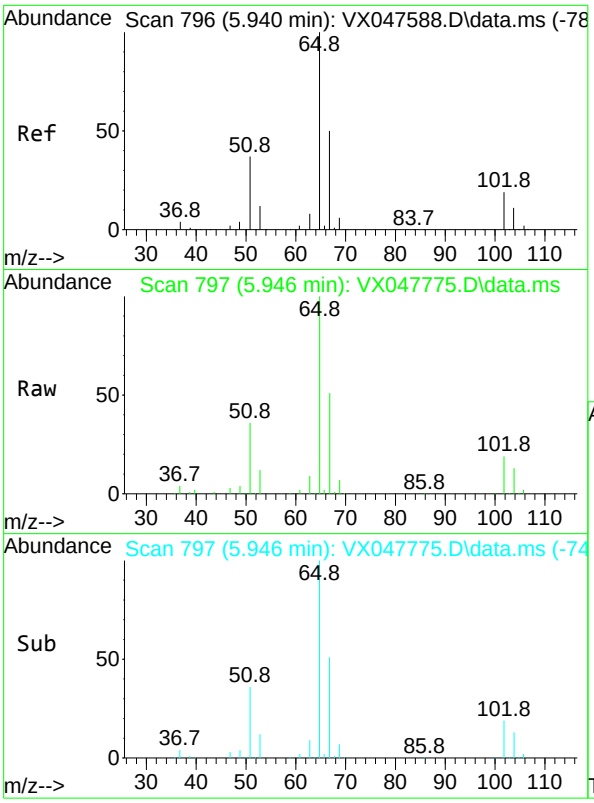


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.606 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Tgt Ion:101 Resp: 2445

Ion	Ratio	Lower	Upper
101	100		
85	42.5	35.5	53.3
151	73.7	59.4	89.0



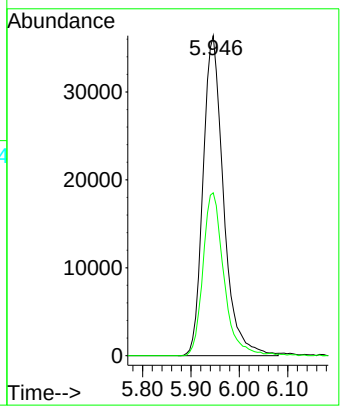


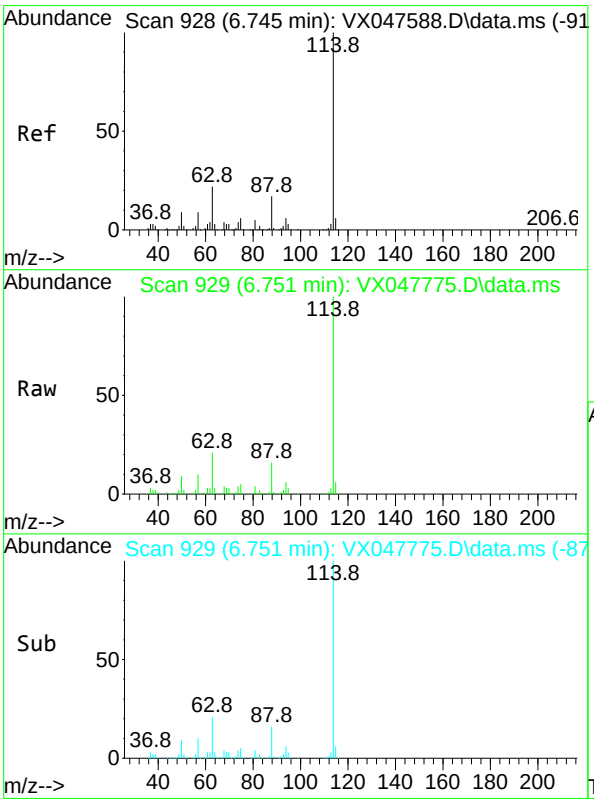
#33
1,2-Dichloroethane-d4
Concen: 51.079 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912DL

Tgt Ion: 65 Resp: 106994

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	103.0

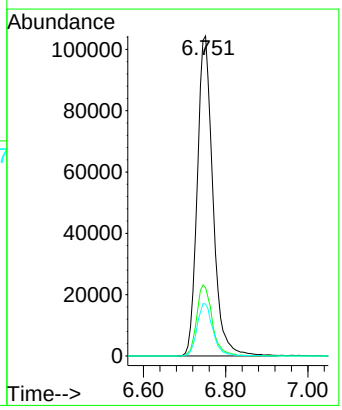


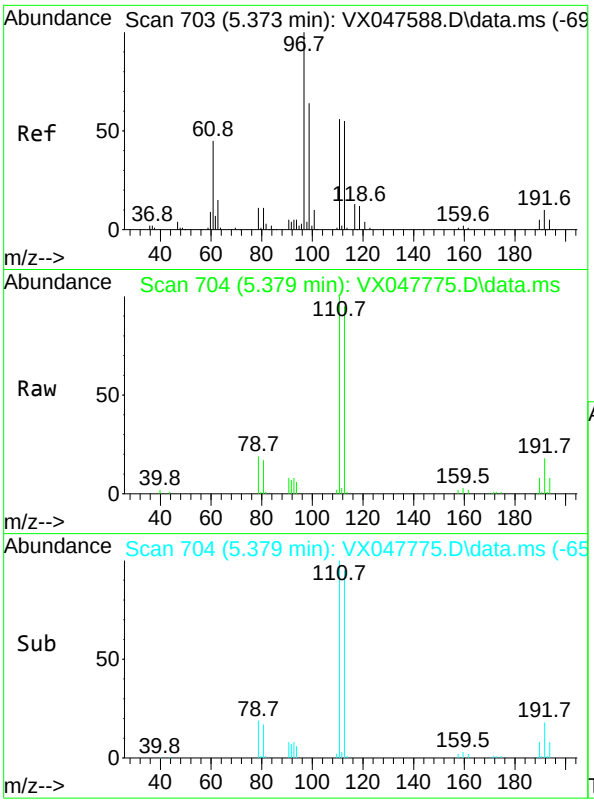


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Tgt Ion:114 Resp: 275490

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.0
88	16.2	0.0	34.2



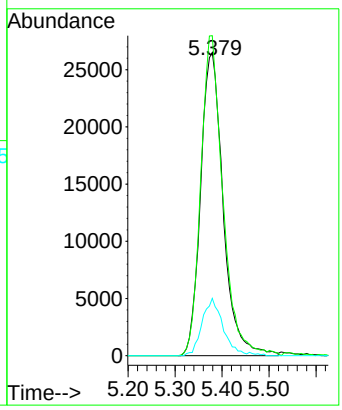


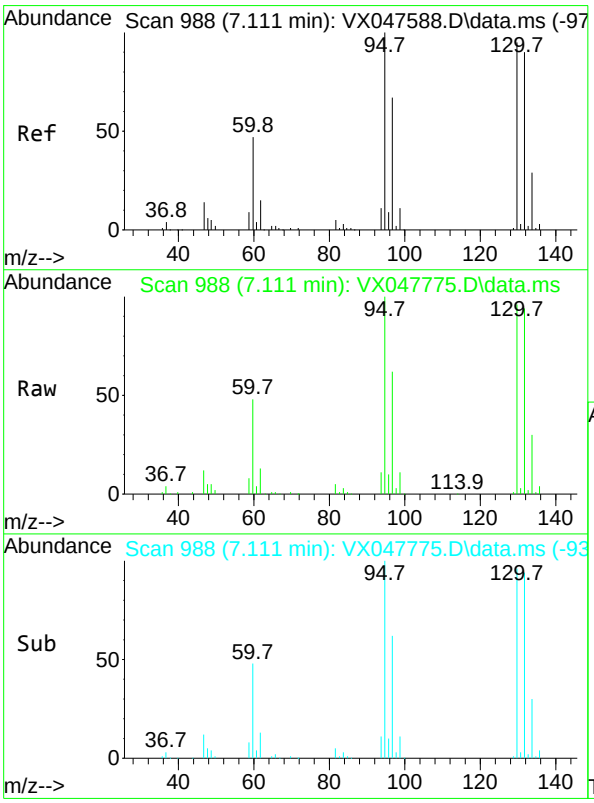
#35
Dibromofluoromethane
Concen: 47.755 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:113 Resp: 88232

Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.9	121.3
192	17.4	14.2	21.4

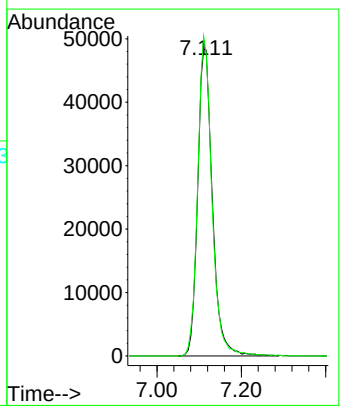


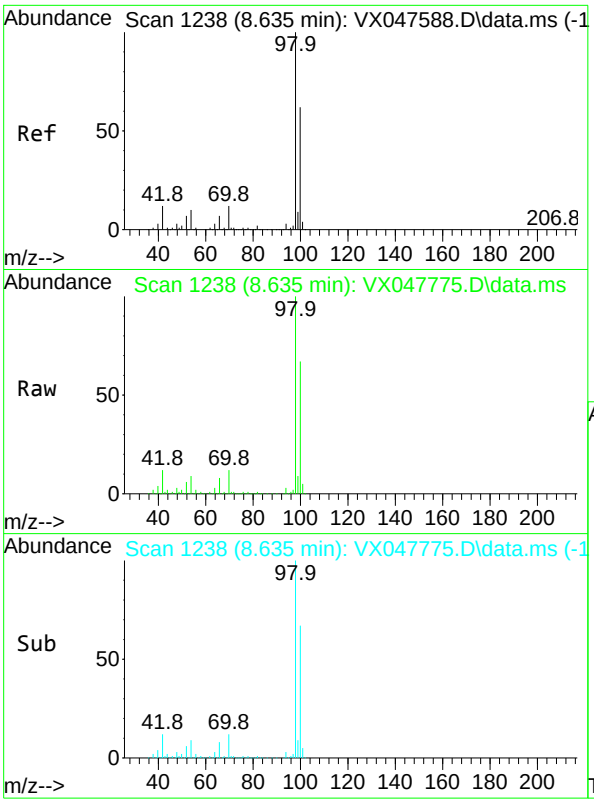


#44
Trichloroethene
Concen: 59.494 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Tgt Ion:130 Resp: 117943

Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	210.8



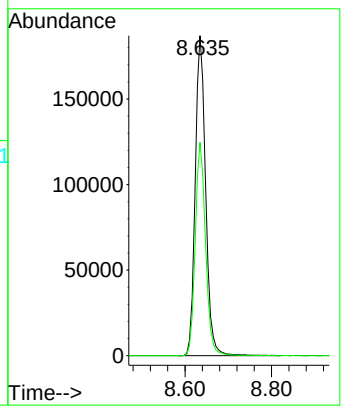


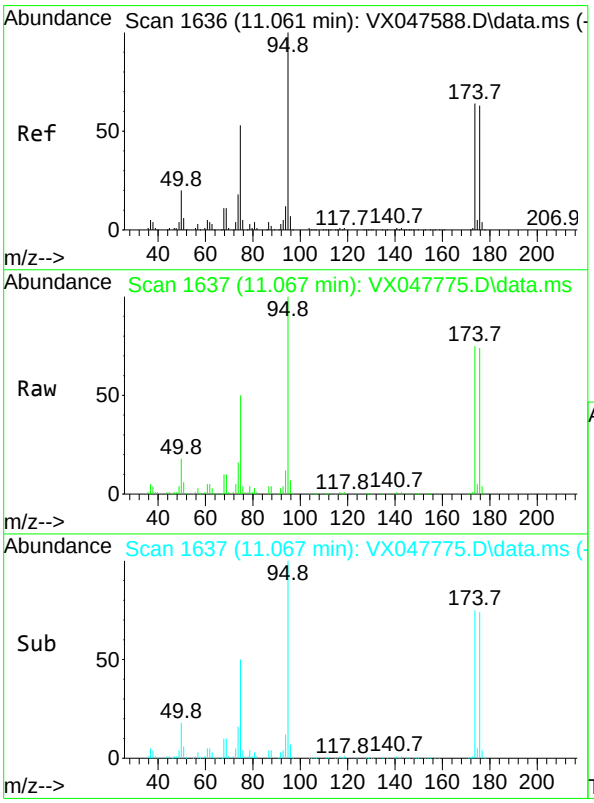
#50
Toluene-d8
Concen: 48.750 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912DL

Tgt Ion: 98 Resp: 311658

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.4

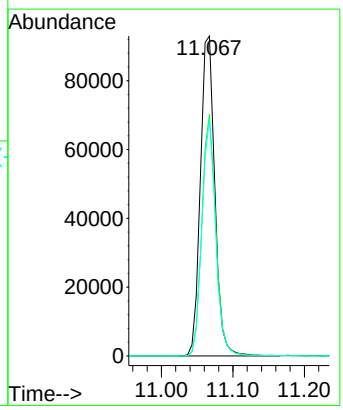


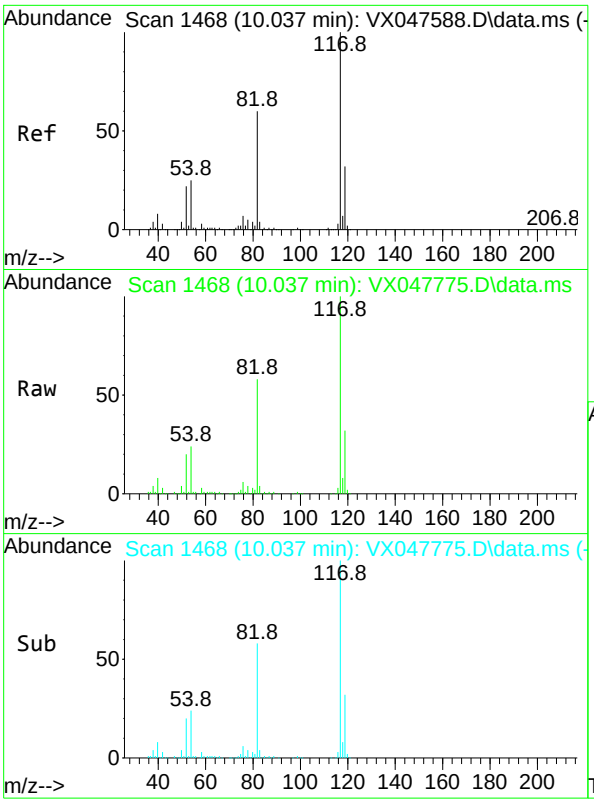


#62
4-Bromofluorobenzene
Concen: 53.890 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Tgt Ion: 95 Resp: 130752

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	141.6
176	70.5	0.0	138.4



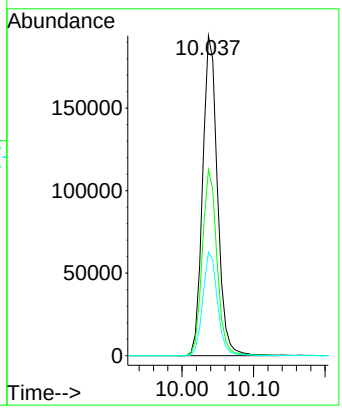


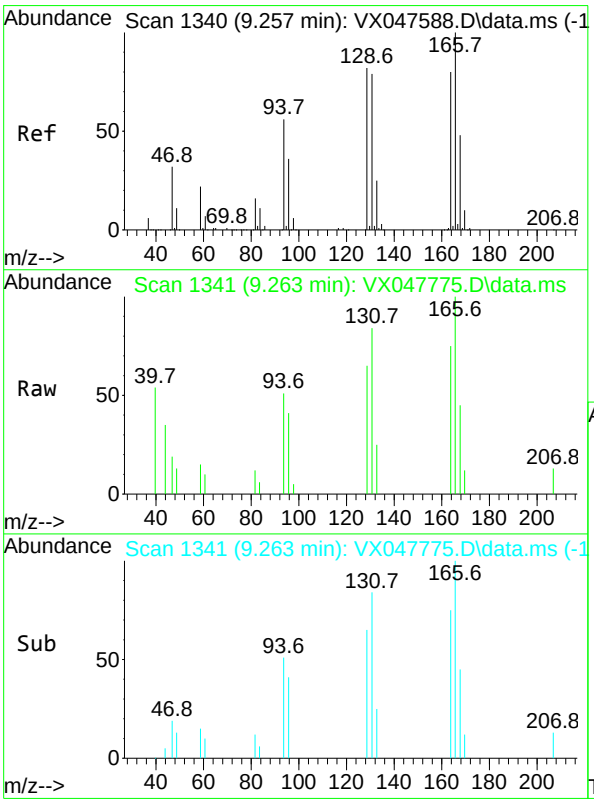
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:117 Resp: 279019

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	32.4	25.2	37.8

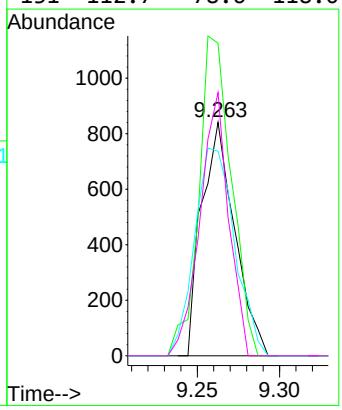


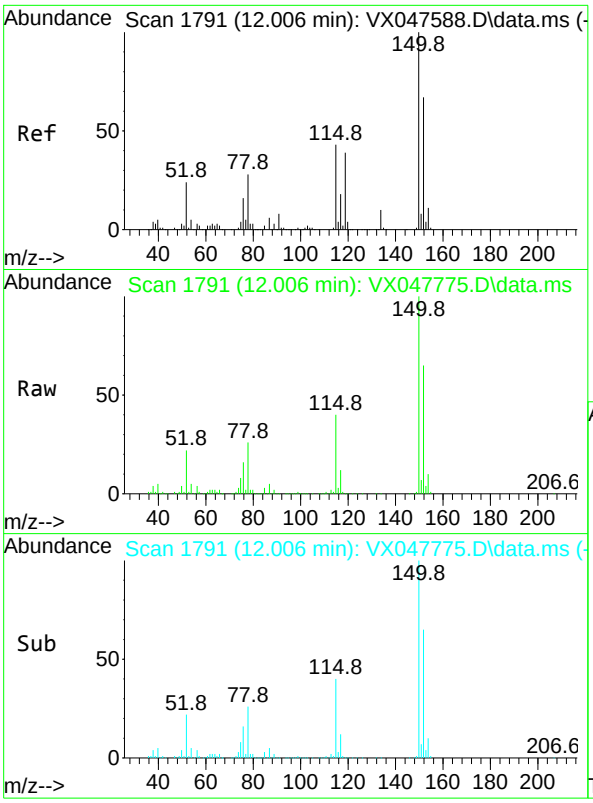


#64
Tetrachloroethene
Concen: 0.647 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Tgt Ion:164 Resp: 1176

Ion	Ratio	Lower	Upper
164	100		
166	133.9	100.2	150.2
129	87.6	81.8	122.6
131	112.7	78.6	118.0



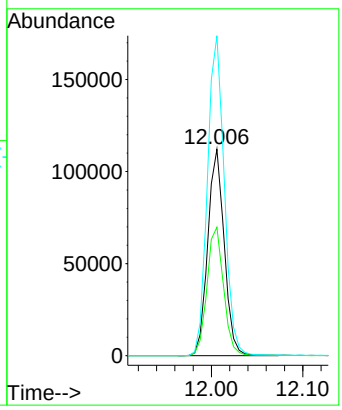


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047775.D
Acq: 24 Sep 2025 15:02

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912DL

Tgt Ion:152 Resp: 140354

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.9	134.5
150	157.8	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP06-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-20	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047738.D	1	09/23/25 16:55	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	15.9		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	6.80		0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.60	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	1.90	J	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	3.80		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.48	J	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	600	E	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP06-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-20	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047738.D	1	09/23/25 16:55	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.53	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	5.80		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.5		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	46.9		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	134000	5.544				
540-36-3	1,4-Difluorobenzene	282000	6.751				
3114-55-4	Chlorobenzene-d5	281000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	141000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP06-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-20	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047738.D	1	09/23/25 16:55	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047738.D
Acq On : 23 Sep 2025 16:55
Operator : JC/MD
Sample : Q3097-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 24 01:36:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134457	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	282290	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	281029	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141279	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	114450	53.476	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.960%			
35) Dibromofluoromethane	5.373	113	93741	49.515	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.020%			
50) Toluene-d8	8.635	98	307302	46.910	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 93.820%			
62) 4-Bromofluorobenzene	11.061	95	134047	53.917	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.840%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	24750	15.915	ug/l	99
12) 1,1-Dichloroethene	2.325	96	10897	6.821	ug/l	95
16) Acetone	2.380	43	2427m	2.608	ug/l	
25) 2-Butanone	4.562	43	2232	1.923	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	8042	3.818	ug/l	86
29) Tetrahydrofuran	5.013	42	2737m	3.920	ug/l	
30) Chloroform	5.093	83	1637	0.477	ug/l	88
44) Trichloroethene	7.110	130	1228197	604.618	ug/l	95
55) 1,1,2-Trichloroethane	9.141	97	1061	0.532	ug/l #	73
64) Tetrachloroethene	9.262	164	10589	5.780	ug/l	92

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

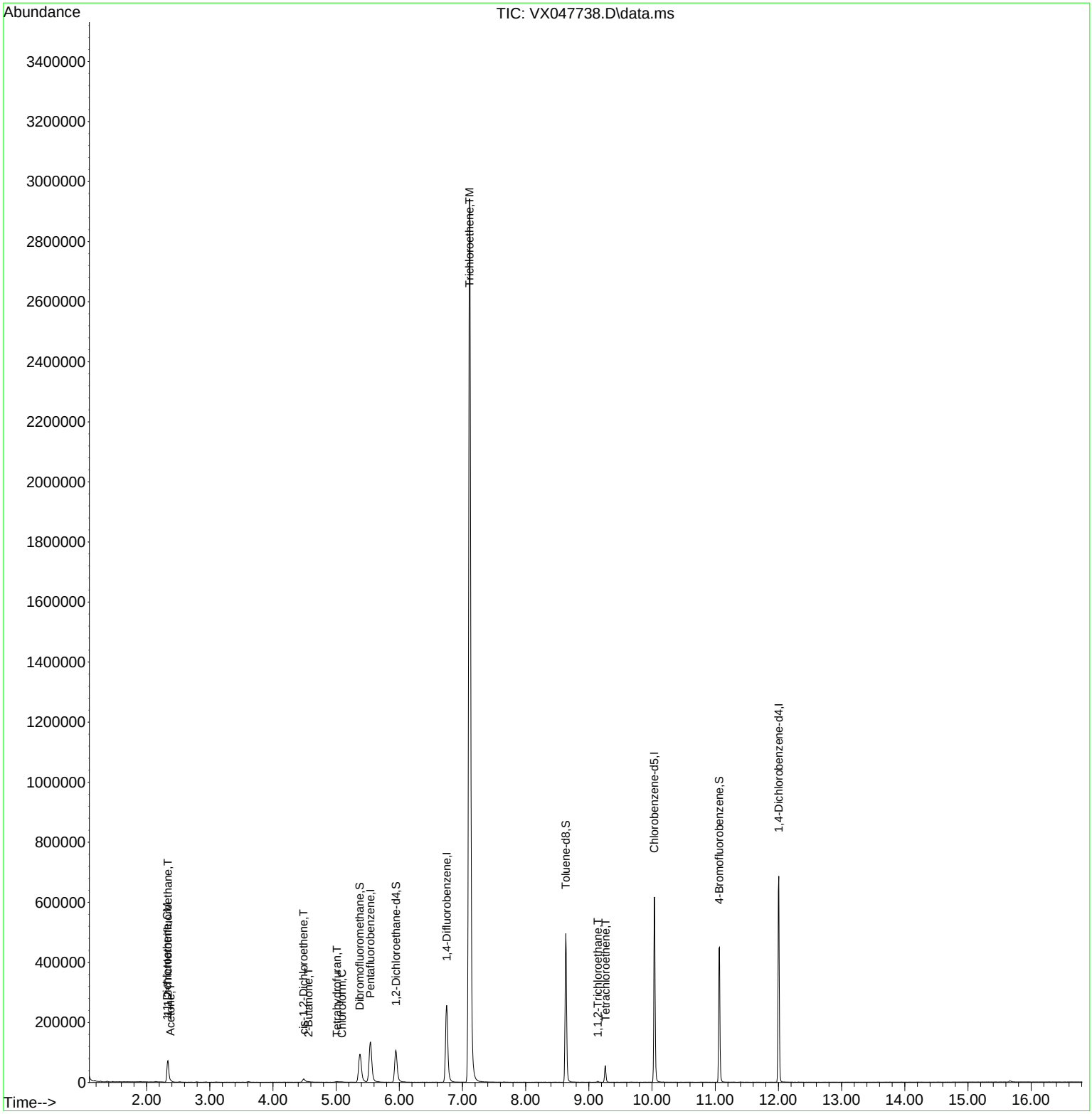
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047738.D
Acq On : 23 Sep 2025 16:55
Operator : JC/MD
Sample : Q3097-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

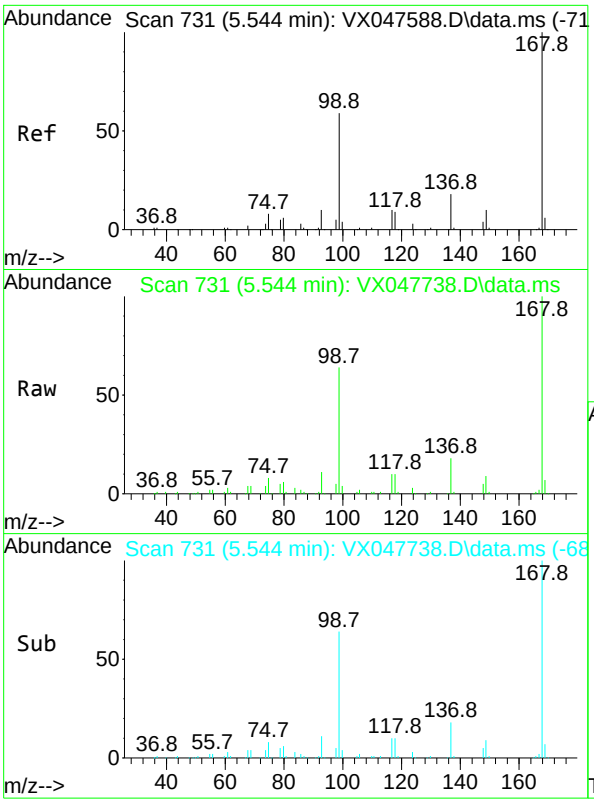
Quant Time: Sep 24 01:36:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

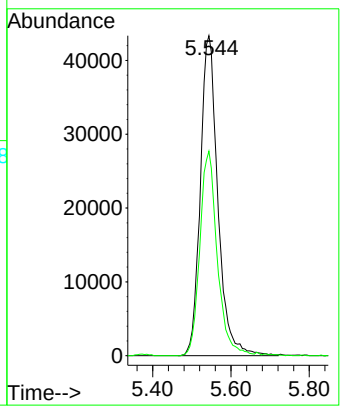




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:168 Resp: 13445

Ion	Ratio	Lower	Upper
168	100		
99	63.9	48.8	73.2



Instrument :
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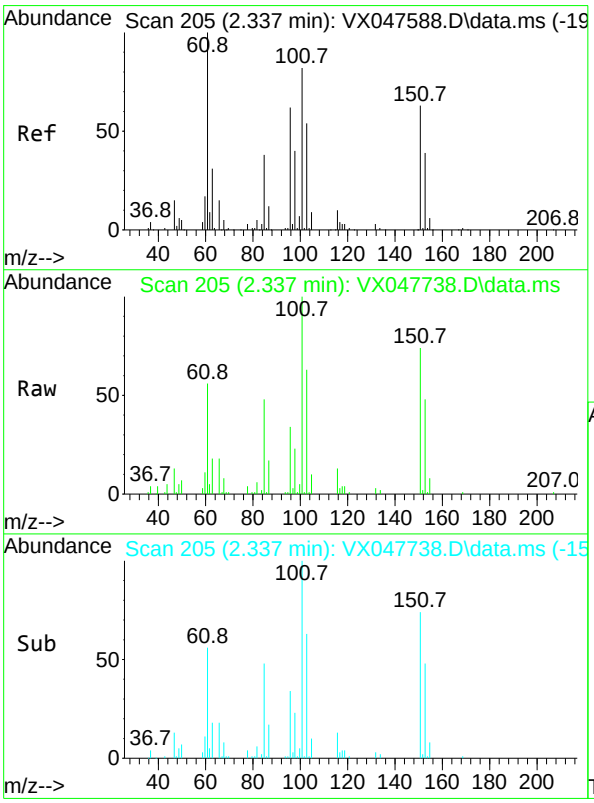
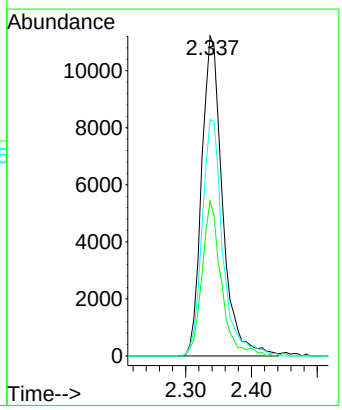
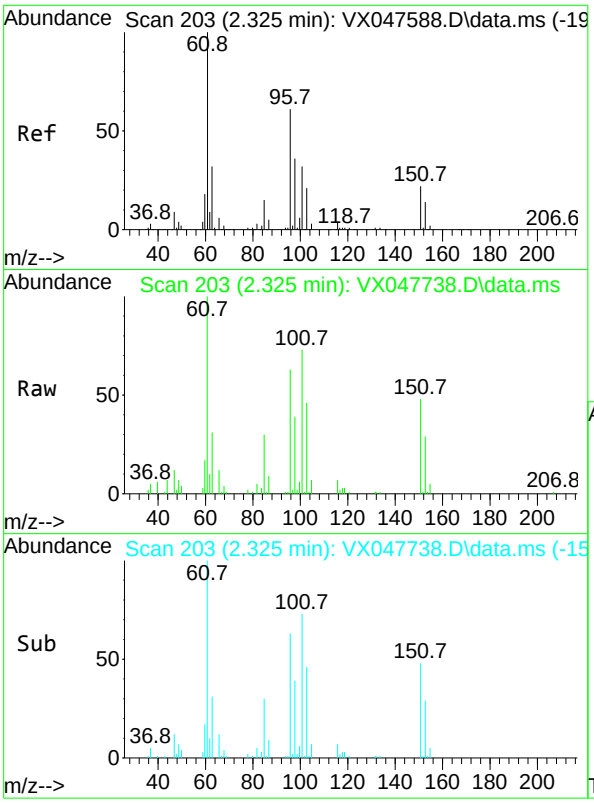


#9
1,1,2-Trichlorotrifluoroethane
Concen: 15.915 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:101 Resp: 24750

Ion	Ratio	Lower	Upper
101	100		
85	44.7	35.5	53.3
151	73.5	59.4	89.0

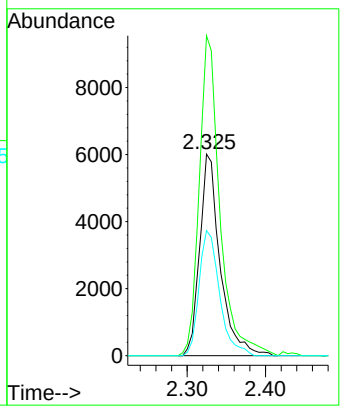




#12
1,1-Dichloroethene
Concen: 6.821 ug/l
RT: 2.325 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 96 Resp: 1089

Ion	Ratio	Lower	Upper
96	100		
61	158.7	131.0	196.6
98	65.2	47.7	71.5



Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

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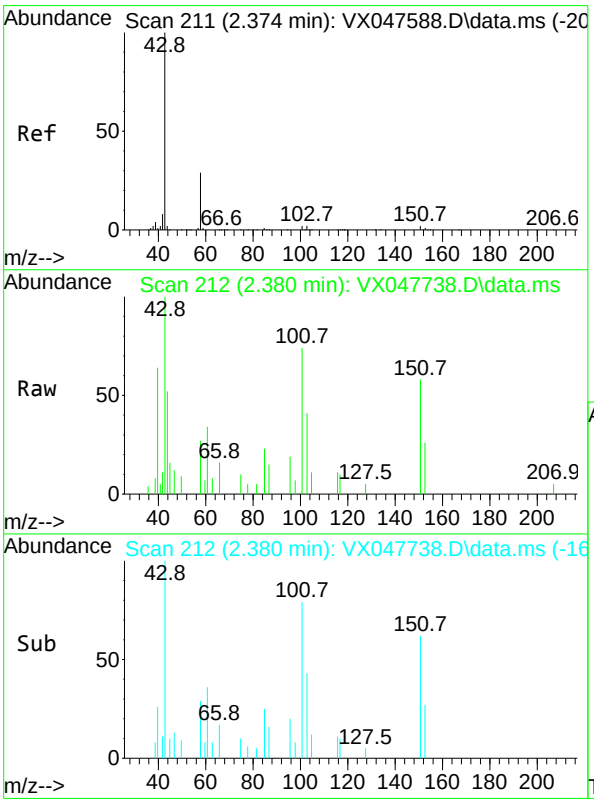
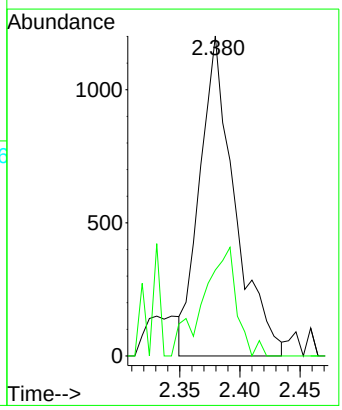
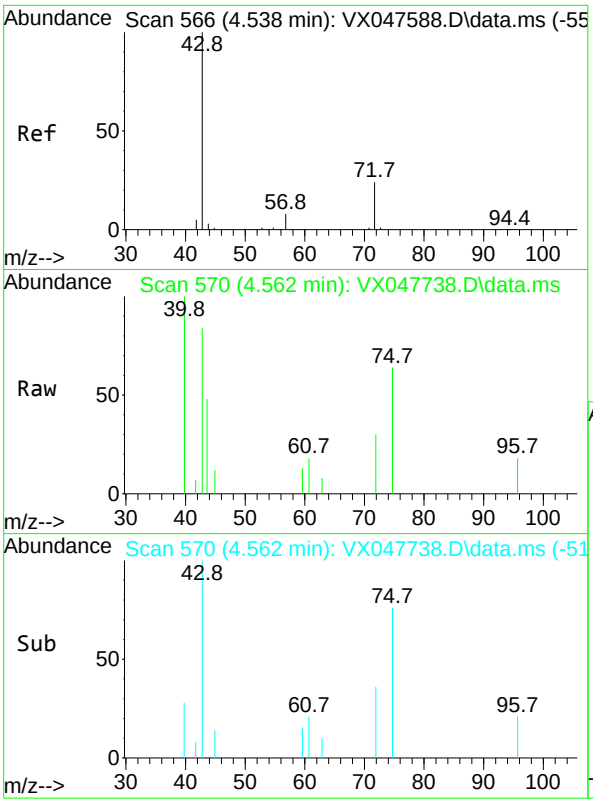


#16
Acetone
Concen: 2.608 ug/l m
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 43 Resp: 2427

Ion	Ratio	Lower	Upper
43	100		
58	26.9	23.4	35.0





#25
2-Butanone
Concen: 1.923 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 43 Resp: 223

Ion	Ratio	Lower	Upper
43	100		
72	27.8	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

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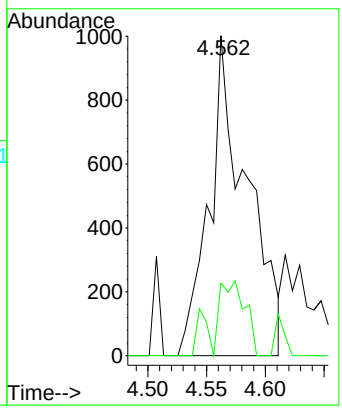
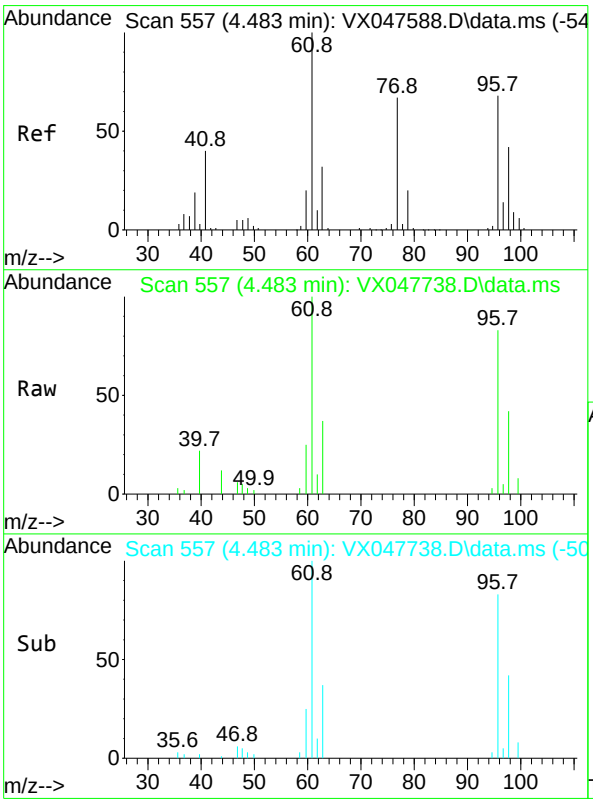
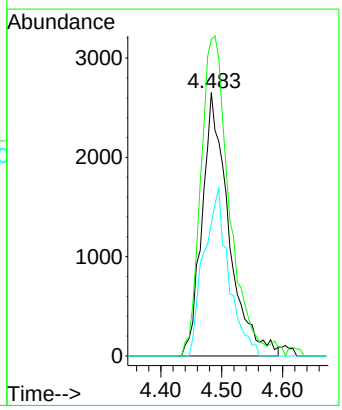


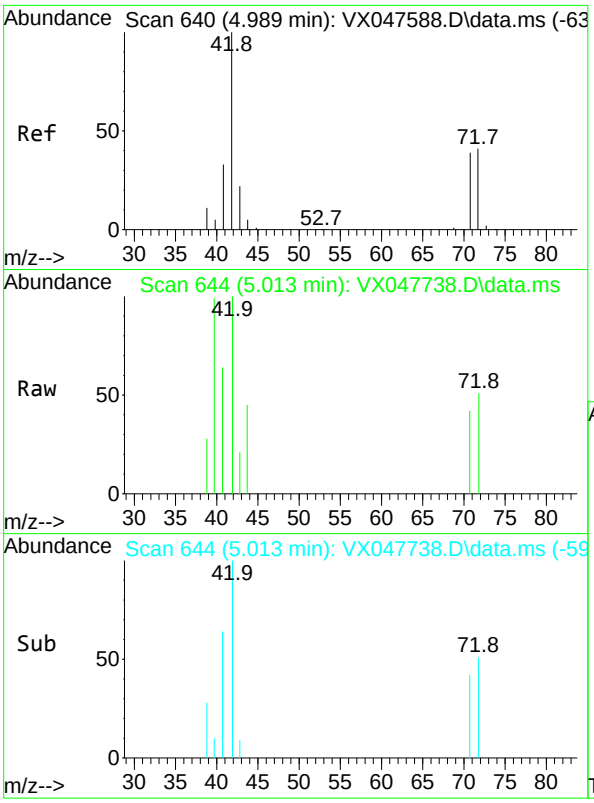


#27
cis-1,2-Dichloroethene
Concen: 3.818 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 96 Resp: 8042

Ion	Ratio	Lower	Upper
96	100		
61	129.1	0.0	303.2
98	59.6	0.0	127.8

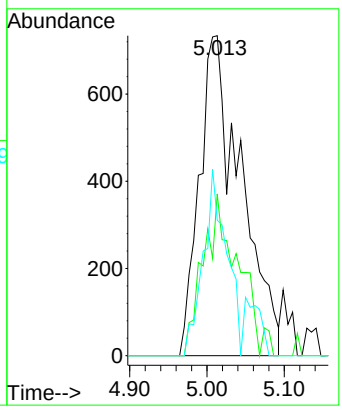




#29
Tetrahydrofuran
Concen: 3.920 ug/l m
RT: 5.013 min Scan# 64
Delta R.T. 0.024 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 42 Resp: 273

Ion	Ratio	Lower	Upper
42	100		
72	41.3	34.2	51.2
71	32.5	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Manual Integrations
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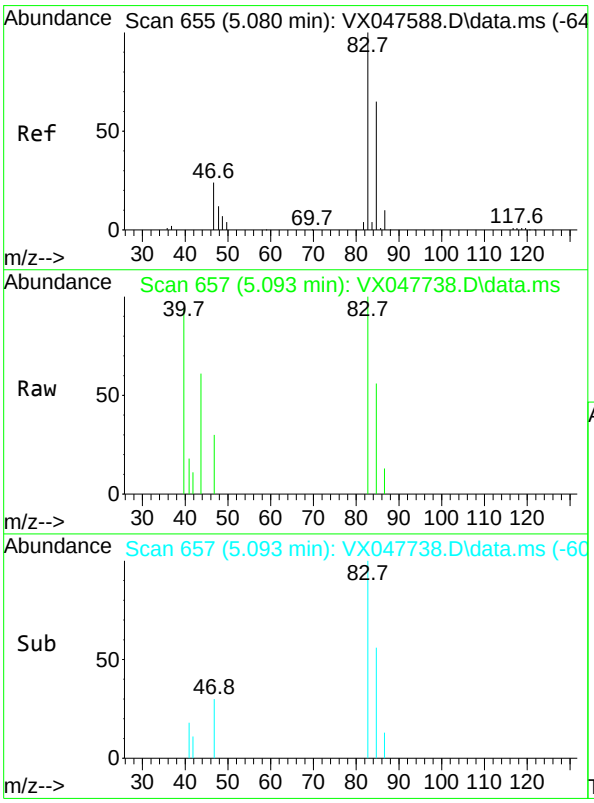
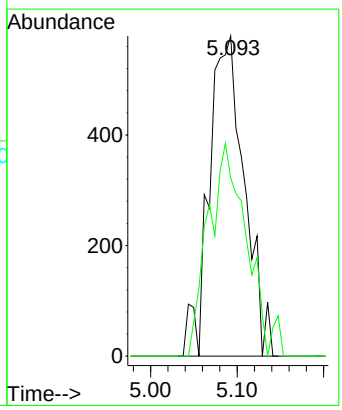
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

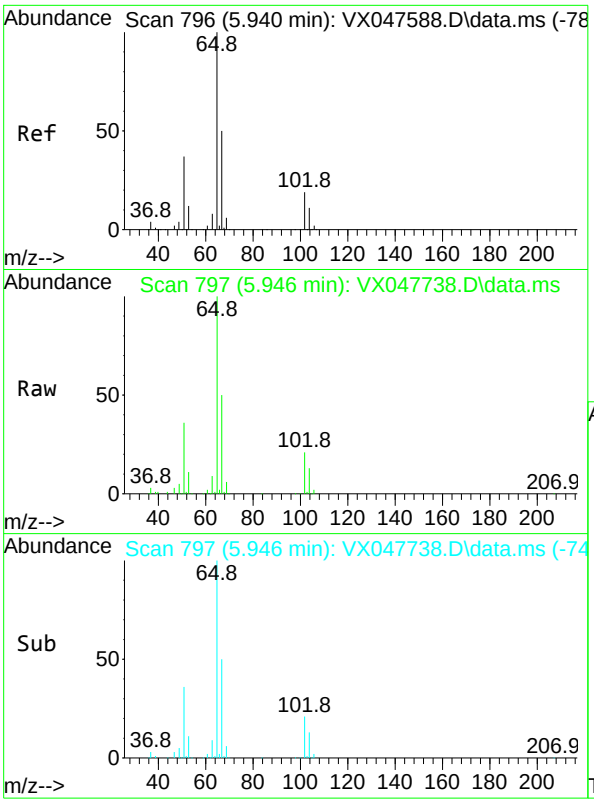


#30
Chloroform
Concen: 0.477 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.012 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 83 Resp: 1637

Ion	Ratio	Lower	Upper
83	100		
85	55.6	51.8	77.6

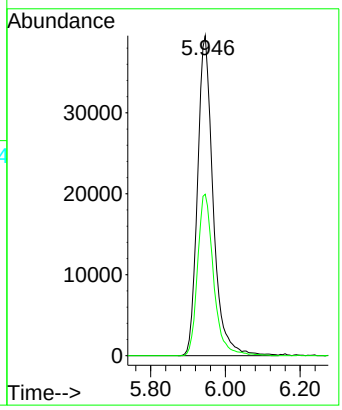




#33
1,2-Dichloroethane-d4
Concen: 53.476 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 65 Resp: 11445

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

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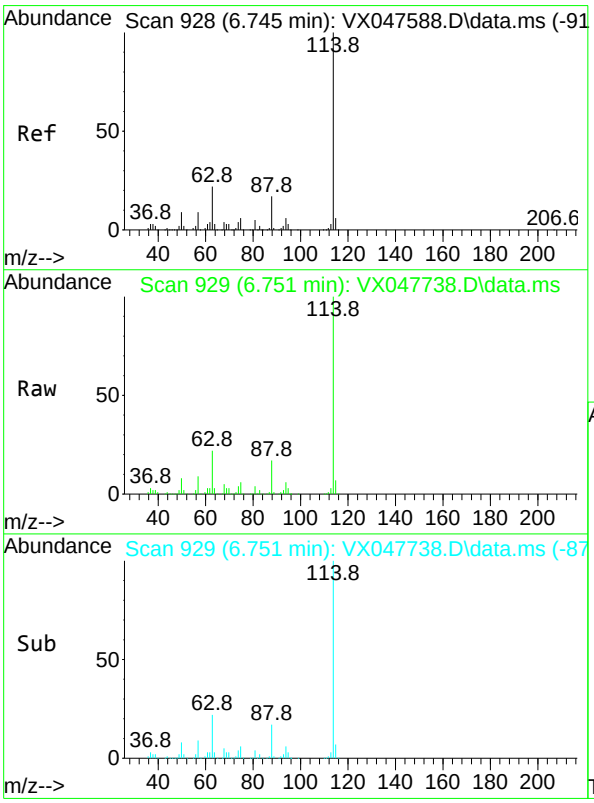
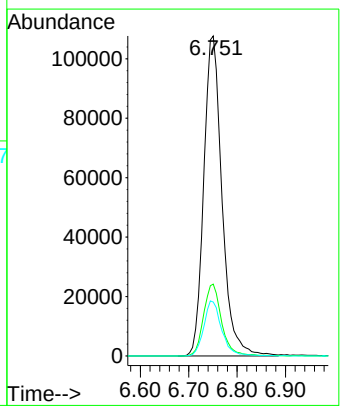
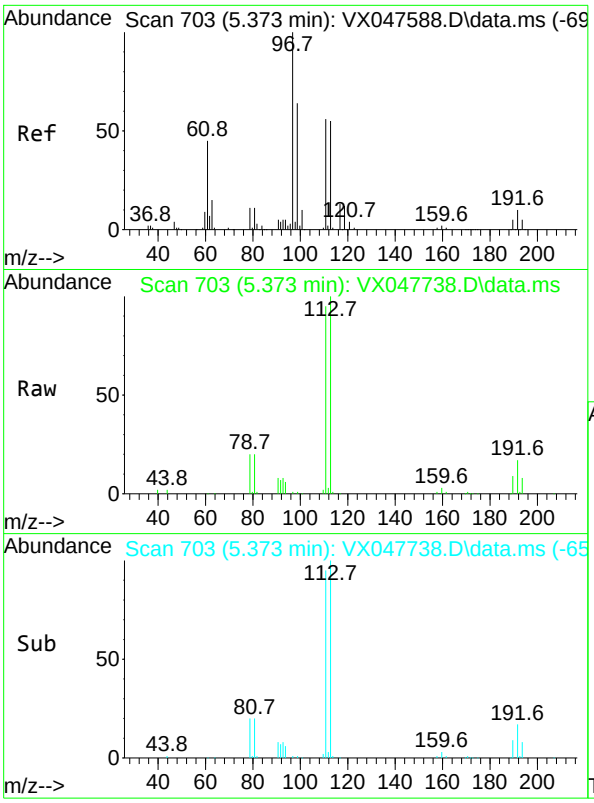


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:114 Resp: 282290

Ion	Ratio	Lower	Upper
114	100		
63	25.6	0.0	44.0
88	16.8	0.0	34.2

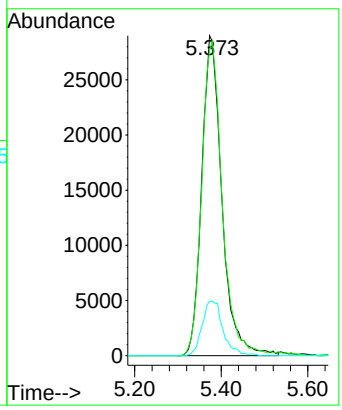




#35
Dibromofluoromethane
Concen: 49.515 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:113 Resp: 9374

Ion	Ratio	Lower	Upper
113	100		
111	99.7	80.9	121.3
192	17.6	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Manual Integrations
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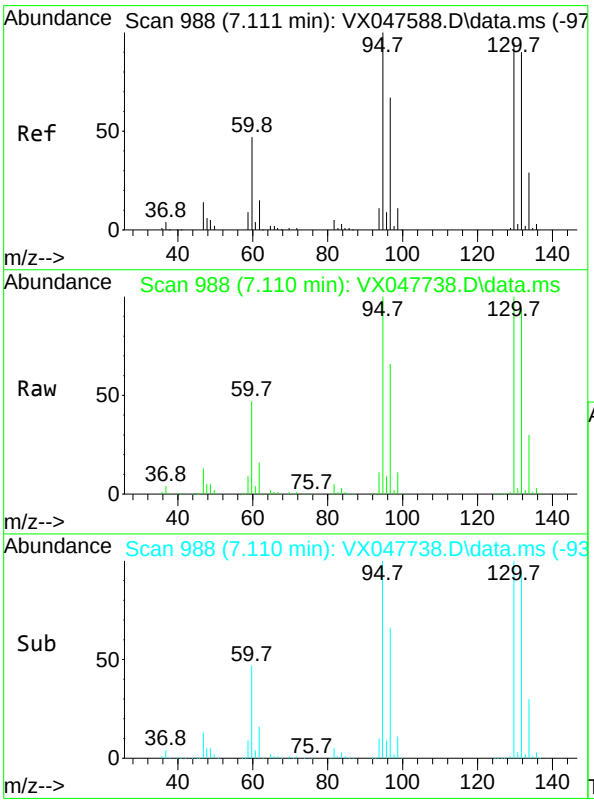
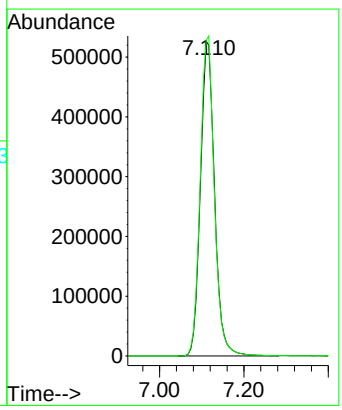
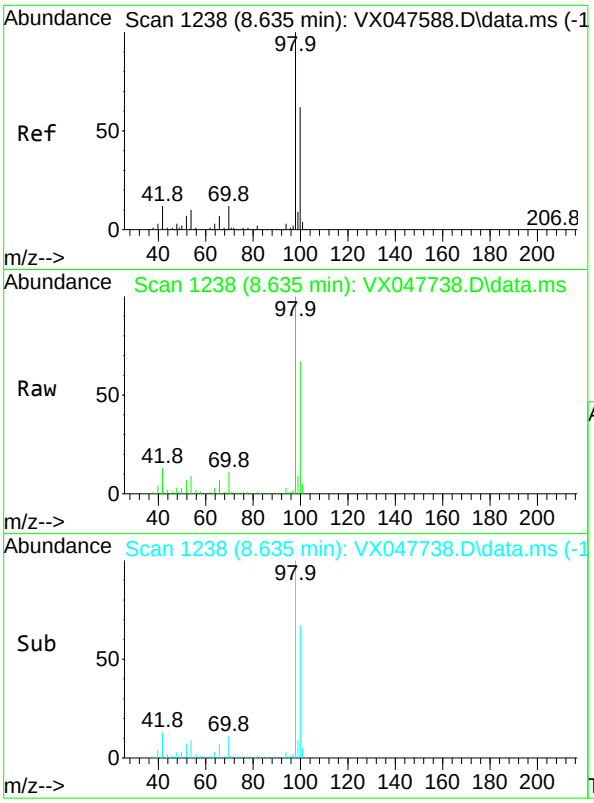


#44
Trichloroethene
Concen: 604.618 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:130 Resp: 1228197

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	210.8

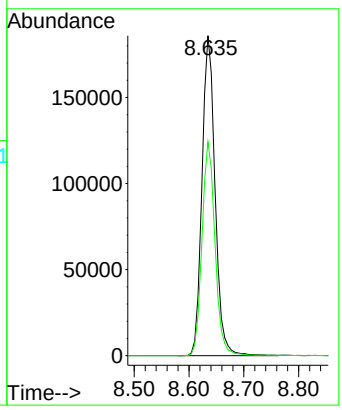




#50
Toluene-d8
Concen: 46.910 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 98 Resp: 30730

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.0	79.4



Instrument :
MSVOA_X
ClientSampleId :
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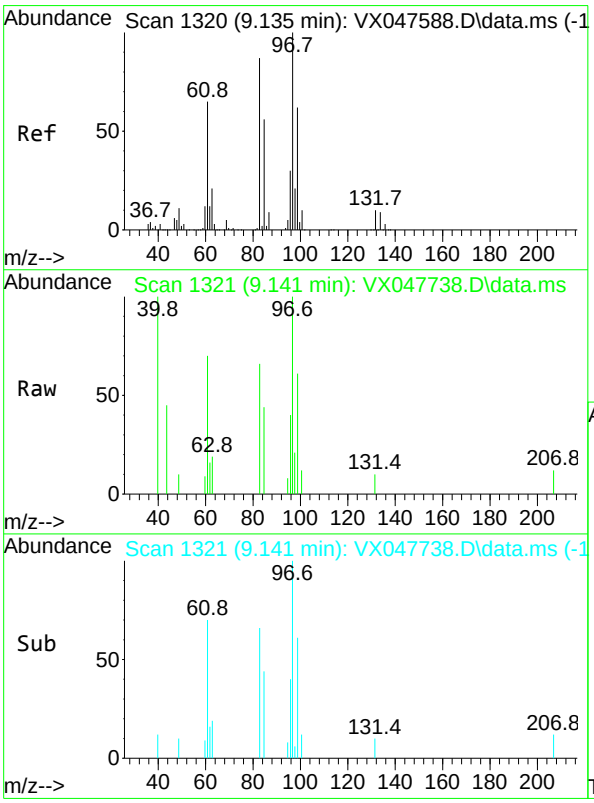
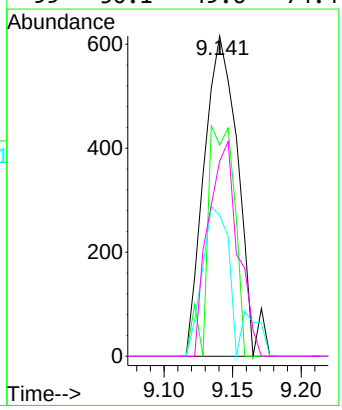
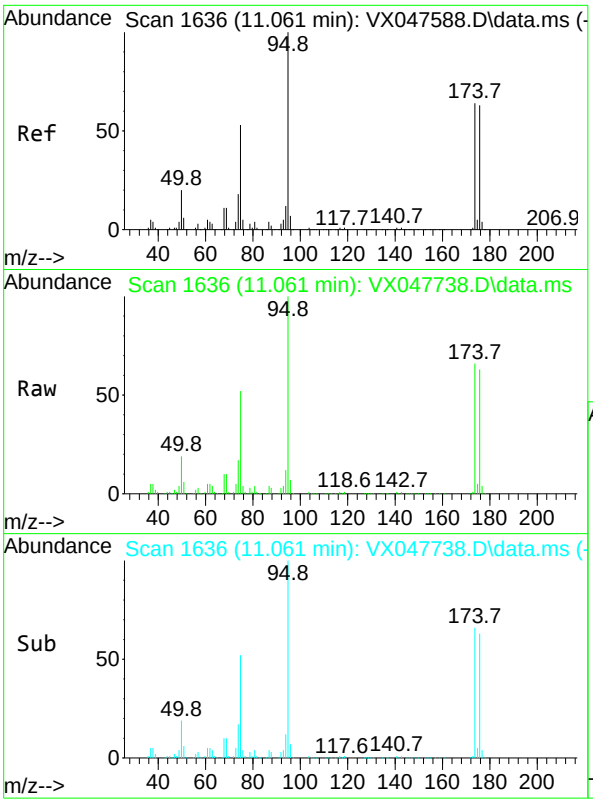


#55
1,1,2-Trichloroethane
Concen: 0.532 ug/l
RT: 9.141 min Scan# 1321
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 97 Resp: 1061

Ion	Ratio	Lower	Upper
97	100		
83	54.3	69.6	104.4#
85	36.2	45.0	67.6#
99	50.1	49.6	74.4

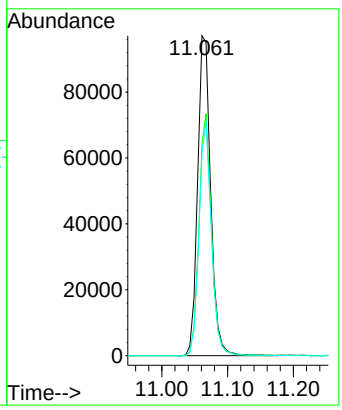




#62
4-Bromofluorobenzene
Concen: 53.917 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 95 Resp: 13404

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.6
176	69.5	0.0	138.4



Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Manual Integrations
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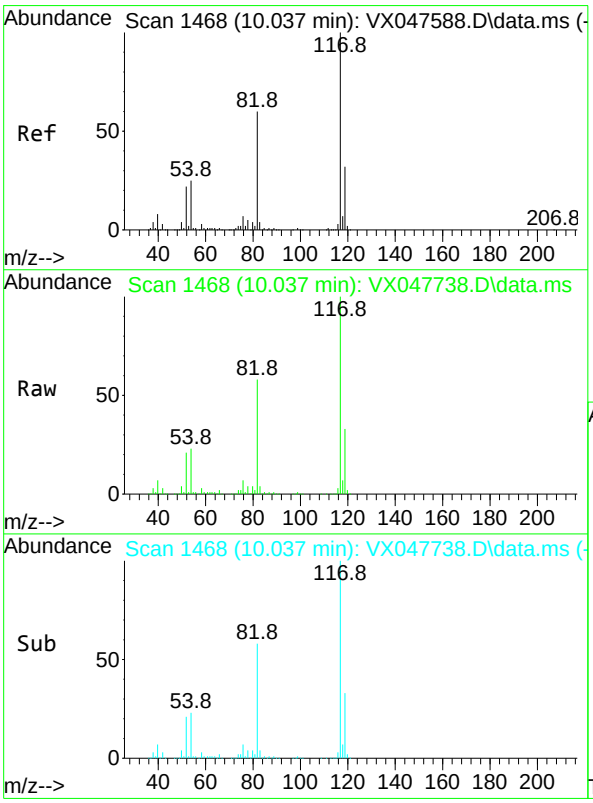
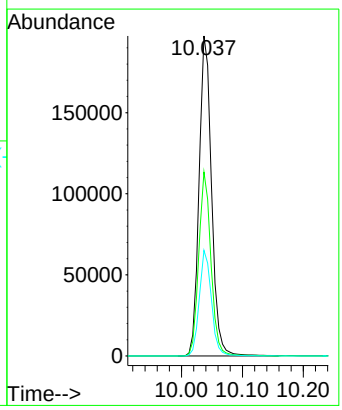
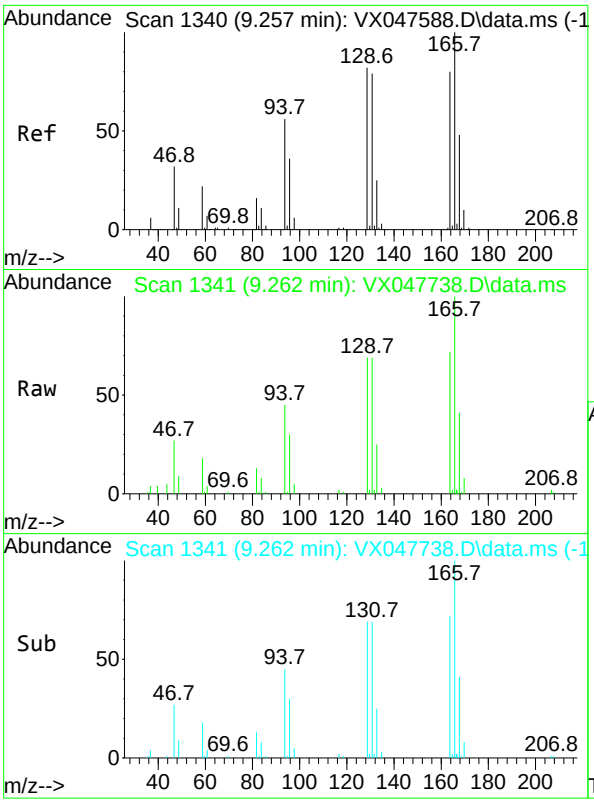


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:117 Resp: 281029

Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.8	71.6
119	33.0	25.2	37.8

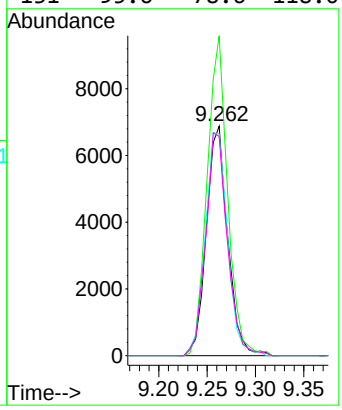




#64
Tetrachloroethene
Concen: 5.780 ug/l
RT: 9.262 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

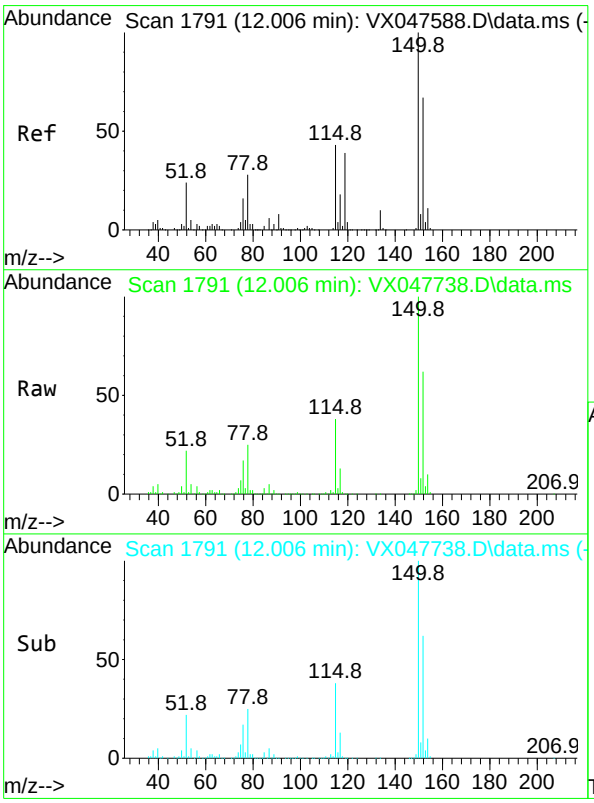
Tgt Ion:164 Resp: 1058

Ion	Ratio	Lower	Upper
164	100		
166	141.8	100.2	150.2
129	96.6	81.8	122.6
131	95.6	78.6	118.0



Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

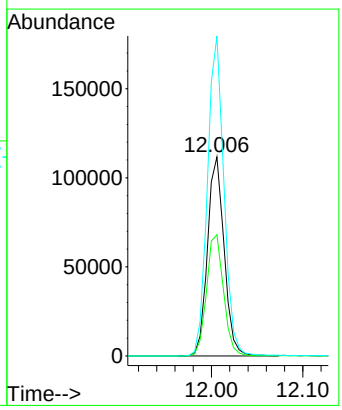
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:152 Resp: 141279

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.9	134.5
150	159.0	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP06-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-20DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047776.D	10	09/24/25 15:23	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	5.00	UD	2.20	5.00	10.0	ug/L
74-87-3	Chloromethane	5.00	UD	3.20	5.00	10.0	ug/L
75-01-4	Vinyl Chloride	7.50	UD	2.60	7.50	10.0	ug/L
74-83-9	Bromomethane	37.5	UD	14.4	37.5	50.0	ug/L
75-00-3	Chloroethane	7.50	UD	4.70	7.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	5.00	UD	3.30	5.00	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	14.6	D	2.50	5.00	10.0	ug/L
75-35-4	1,1-Dichloroethene	6.00	JD	2.30	7.50	10.0	ug/L
67-64-1	Acetone	37.5	UD	15.1	37.5	50.0	ug/L
75-15-0	Carbon Disulfide	7.50	UD	2.10	7.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	UD	1.60	5.00	10.0	ug/L
79-20-9	Methyl Acetate	7.50	UD	2.70	7.50	10.0	ug/L
75-09-2	Methylene Chloride	6.50	JD	2.80	5.00	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	5.00	UD	2.30	5.00	10.0	ug/L
75-34-3	1,1-Dichloroethane	5.00	UD	2.30	5.00	10.0	ug/L
110-82-7	Cyclohexane	25.0	UD	14.5	25.0	50.0	ug/L
78-93-3	2-Butanone	25.0	UD	9.80	25.0	50.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	2.50	5.00	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	3.50	JD	1.90	7.50	10.0	ug/L
74-97-5	Bromochloromethane	5.00	UD	2.20	5.00	10.0	ug/L
67-66-3	Chloroform	5.00	UD	2.50	5.00	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	UD	2.00	5.00	10.0	ug/L
108-87-2	Methylcyclohexane	5.00	UD	1.60	5.00	10.0	ug/L
71-43-2	Benzene	5.00	UD	1.50	5.00	10.0	ug/L
107-06-2	1,2-Dichloroethane	5.00	UD	2.20	5.00	10.0	ug/L
79-01-6	Trichloroethene	580	D	0.93	7.50	10.0	ug/L
78-87-5	1,2-Dichloropropane	5.00	UD	2.00	5.00	10.0	ug/L
75-27-4	Bromodichloromethane	5.00	UD	2.20	5.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	UD	6.80	25.0	50.0	ug/L
108-88-3	Toluene	5.00	UD	1.40	5.00	10.0	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP06-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-20DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047776.D	10	09/24/25 15:23	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	5.00	UD	1.70	5.00	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	UD	1.60	5.00	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	5.00	UD	2.10	5.00	10.0	ug/L
591-78-6	2-Hexanone	25.0	UD	8.90	25.0	50.0	ug/L
124-48-1	Dibromochloromethane	5.00	UD	1.80	5.00	10.0	ug/L
106-93-4	1,2-Dibromoethane	5.00	UD	1.50	5.00	10.0	ug/L
127-18-4	Tetrachloroethene	6.00	JD	2.30	5.00	10.0	ug/L
108-90-7	Chlorobenzene	5.00	UD	1.20	5.00	10.0	ug/L
100-41-4	Ethyl Benzene	5.00	UD	1.30	5.00	10.0	ug/L
179601-23-1	m/p-Xylenes	10.0	UD	2.40	10.0	20.0	ug/L
95-47-6	o-Xylene	5.00	UD	1.20	5.00	10.0	ug/L
100-42-5	Styrene	5.00	UD	1.50	5.00	10.0	ug/L
75-25-2	Bromoform	5.00	UD	1.90	5.00	10.0	ug/L
98-82-8	Isopropylbenzene	5.00	UD	1.20	5.00	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	UD	2.60	5.00	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	UD	1.60	5.00	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	UD	1.90	5.00	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	UD	1.60	5.00	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	7.50	UD	5.30	7.50	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.00	UD	2.00	5.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.50	UD	2.00	7.50	10.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.3		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	48.8		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.4		85 - 114		113%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	5.537				
540-36-3	1,4-Difluorobenzene	285000	6.751				
3114-55-4	Chlorobenzene-d5	292000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	150000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	DUP06-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-20DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047776.D	10	09/24/25 15:23	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047776.D
Acq On : 24 Sep 2025 15:23
Operator : JC/MD
Sample : Q3097-20DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912DL

Quant Time: Sep 25 01:16:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

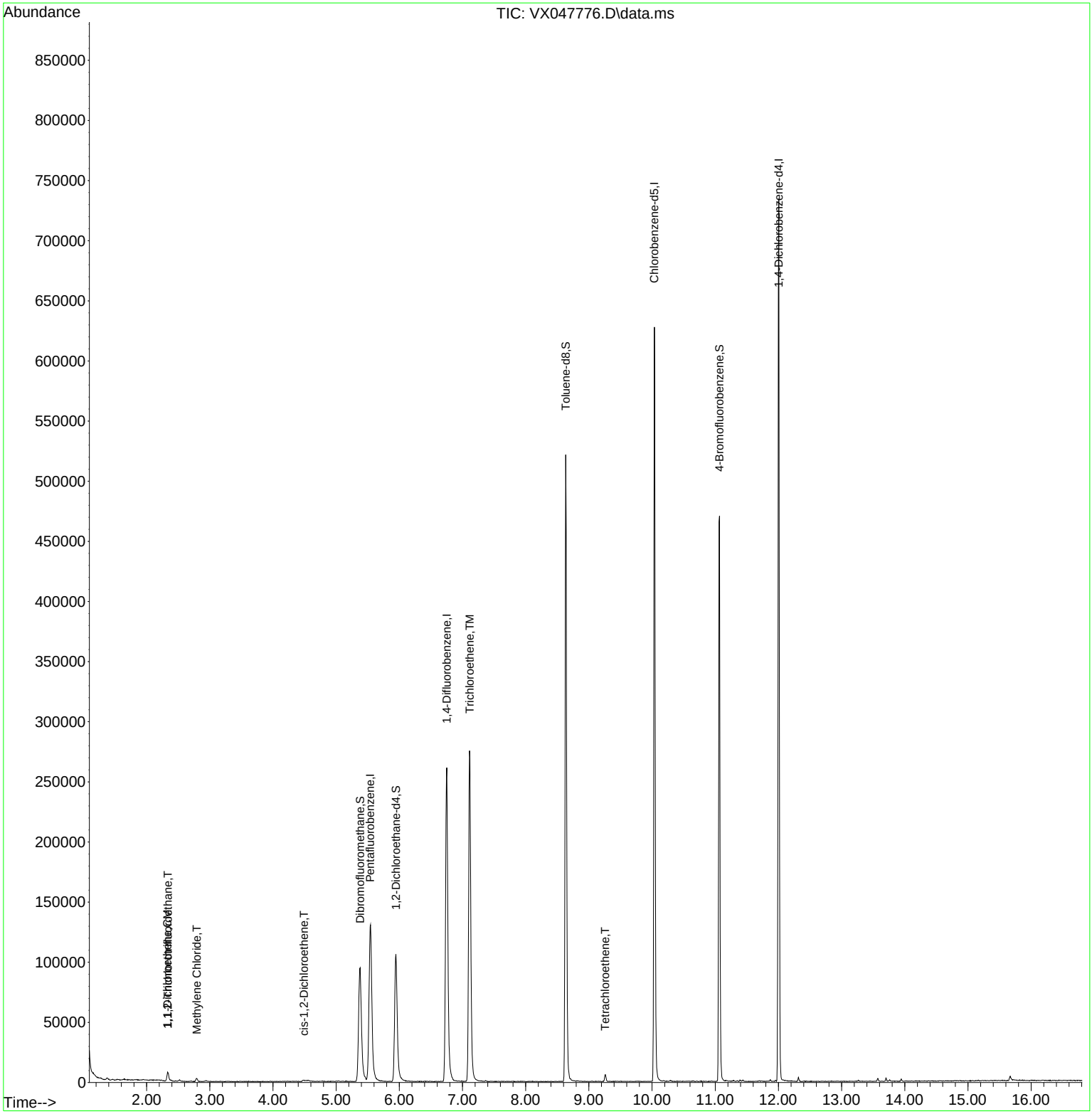
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	131907	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	284626	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	292272	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	149875	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	114020	54.305	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.600%			
35) Dibromofluoromethane	5.379	113	94170	49.333	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.660%			
50) Toluene-d8	8.634	98	322305	48.797	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 97.600%			
62) 4-Bromofluorobenzene	11.067	95	141312	56.373	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.740%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	2224	1.458	ug/l #	79
12) 1,1-Dichloroethene	2.331	96	941	0.600	ug/l	90
20) Methylene Chloride	2.794	84	1251	0.647	ug/l	87
27) cis-1,2-Dichloroethene	4.489	96	714	0.346	ug/l	79
44) Trichloroethene	7.116	130	117893	57.560	ug/l	89
64) Tetrachloroethene	9.256	164	1150	0.604	ug/l #	85

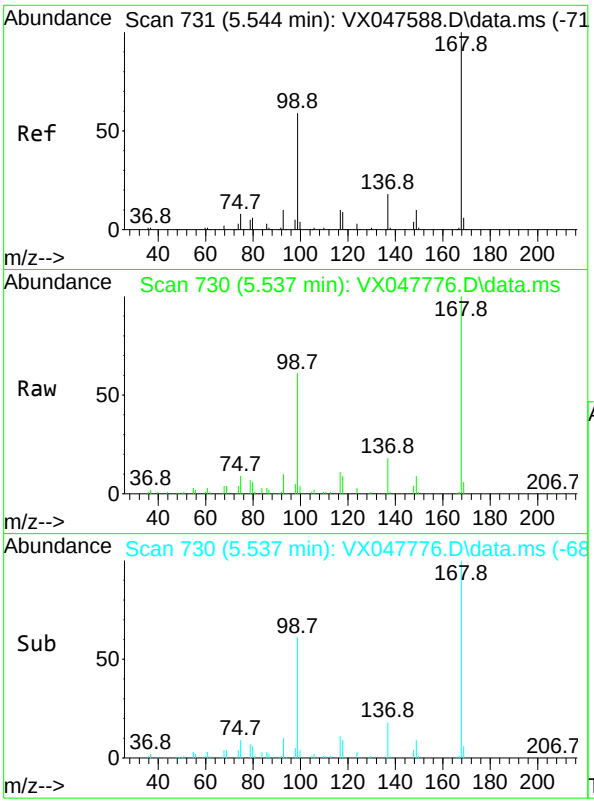
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047776.D
Acq On : 24 Sep 2025 15:23
Operator : JC/MD
Sample : Q3097-20DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912DL

Quant Time: Sep 25 01:16:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



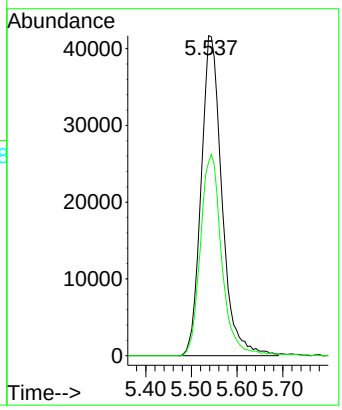


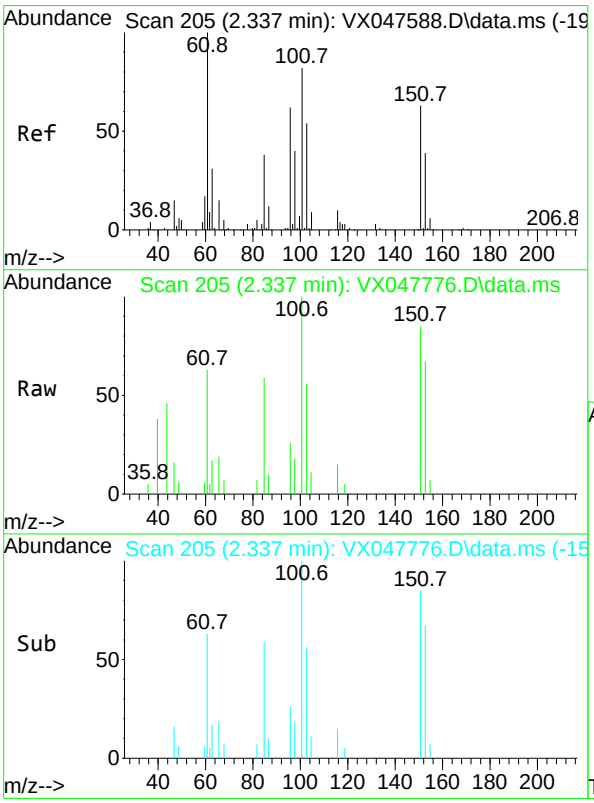
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912DL

Tgt Ion:168 Resp: 131907

Ion	Ratio	Lower	Upper
168	100		
99	60.5	48.8	73.2

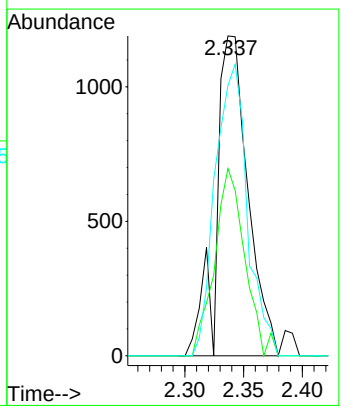


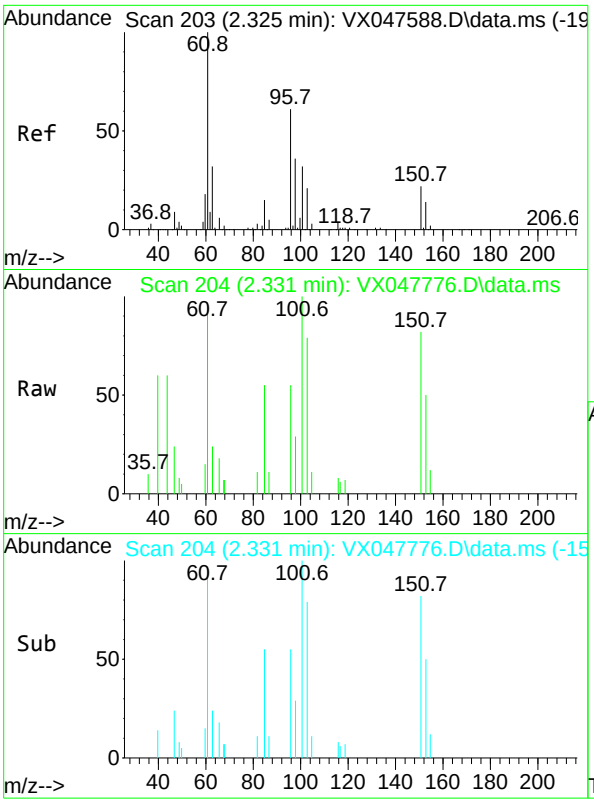


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.458 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Tgt Ion:101 Resp: 2224

Ion	Ratio	Lower	Upper
101	100		
85	56.0	35.5	53.3#
151	93.0	59.4	89.0#



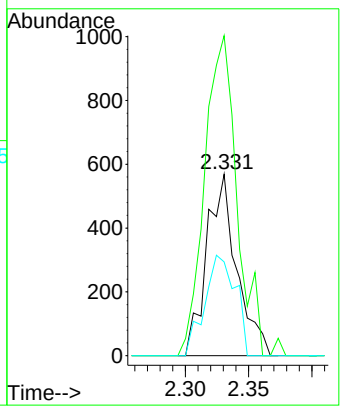


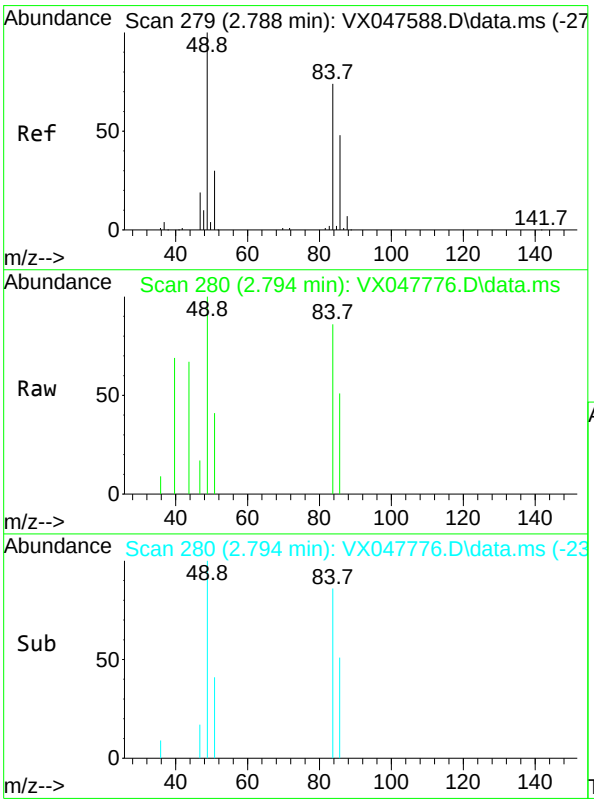
#12
1,1-Dichloroethene
Concen: 0.600 ug/l
RT: 2.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912DL

Tgt Ion: 96 Resp: 941

Ion	Ratio	Lower	Upper
96	100		
61	176.3	131.0	196.6
98	51.7	47.7	71.5

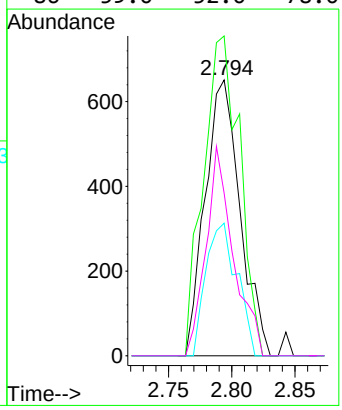


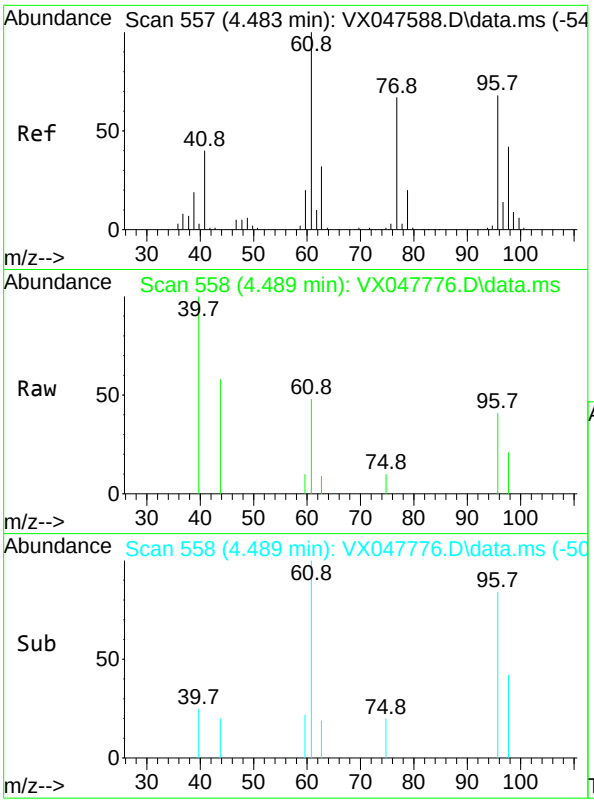


#20
Methylene Chloride
Concen: 0.647 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Tgt Ion: 84 Resp: 1251

Ion	Ratio	Lower	Upper
84	100		
49	116.0	108.6	162.8
51	48.1	32.6	48.8
86	59.0	52.0	78.0



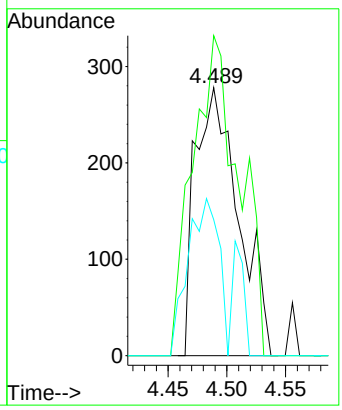


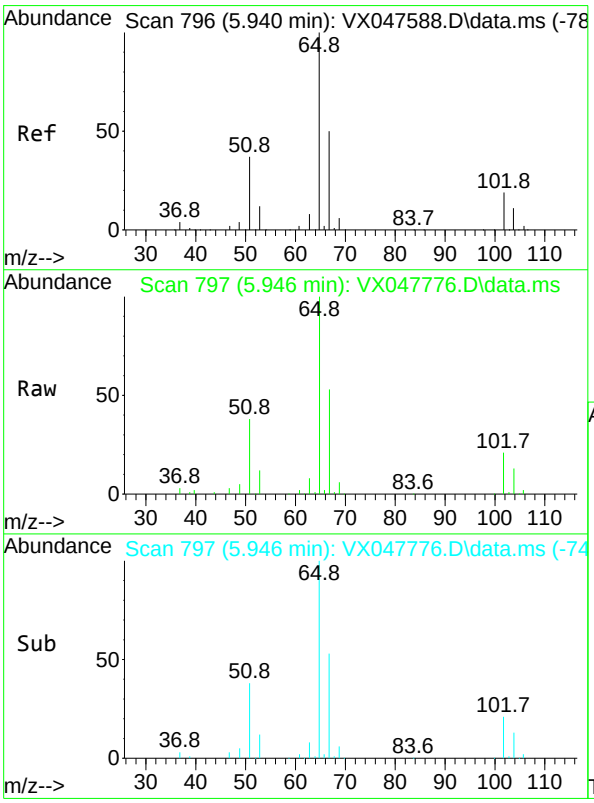
#27
cis-1,2-Dichloroethene
Concen: 0.346 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912DL

Tgt Ion: 96 Resp: 714

Ion	Ratio	Lower	Upper
96	100		
61	127.7	0.0	303.2
98	41.9	0.0	127.8

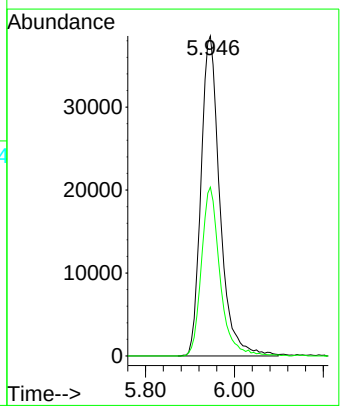


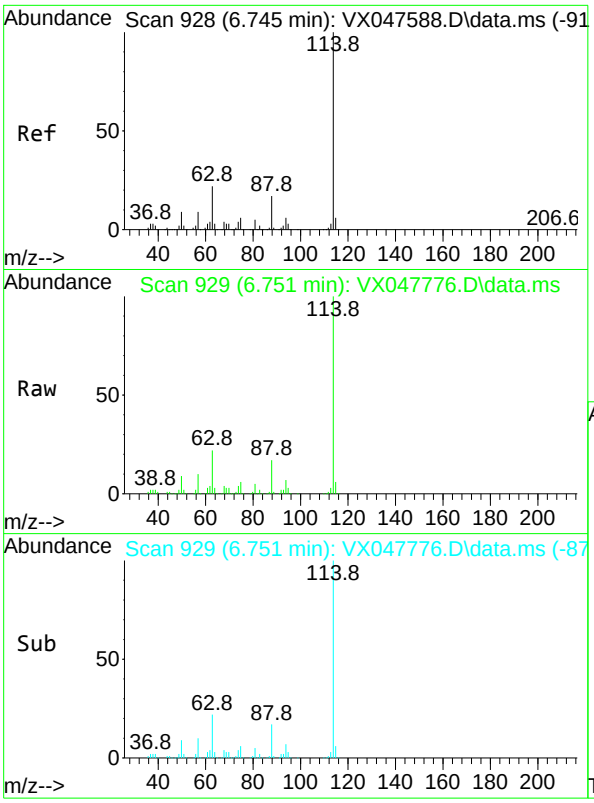


#33
1,2-Dichloroethane-d4
Concen: 54.305 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Tgt Ion: 65 Resp: 114020

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0



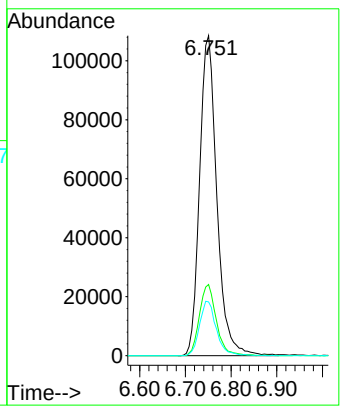


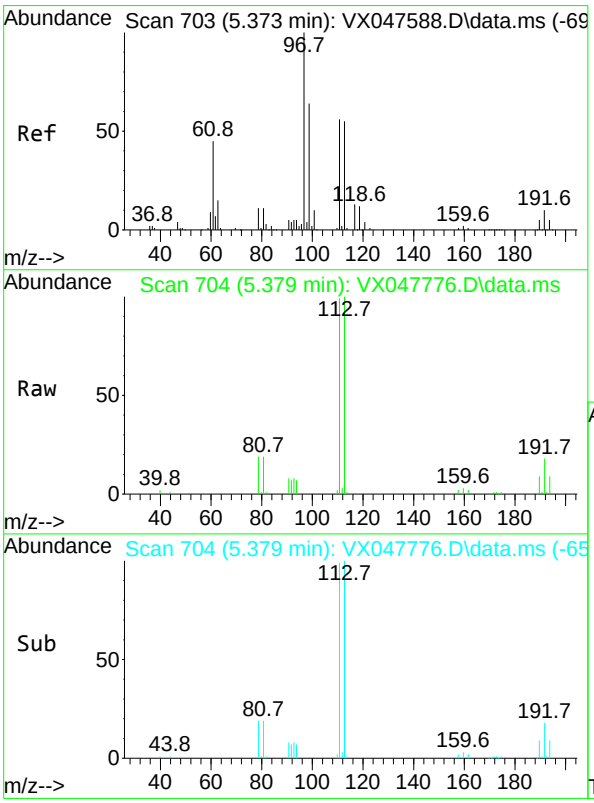
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912DL

Tgt Ion:114 Resp: 284626

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.0
88	16.8	0.0	34.2

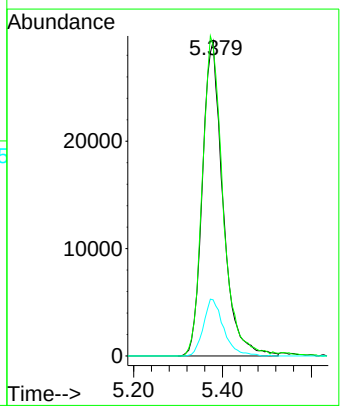


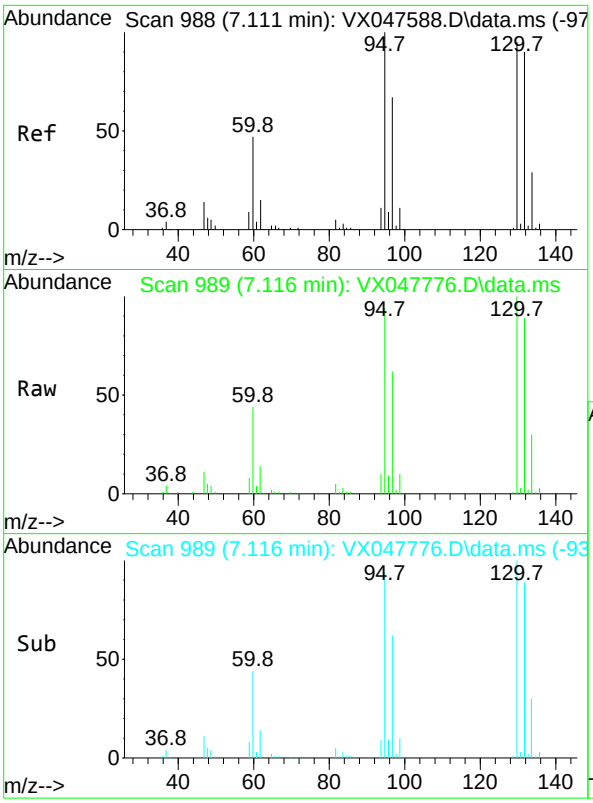


#35
Dibromofluoromethane
Concen: 49.333 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Tgt Ion:113 Resp: 94170

Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.9	121.3
192	17.7	14.2	21.4



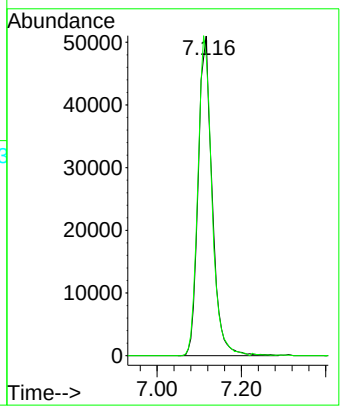


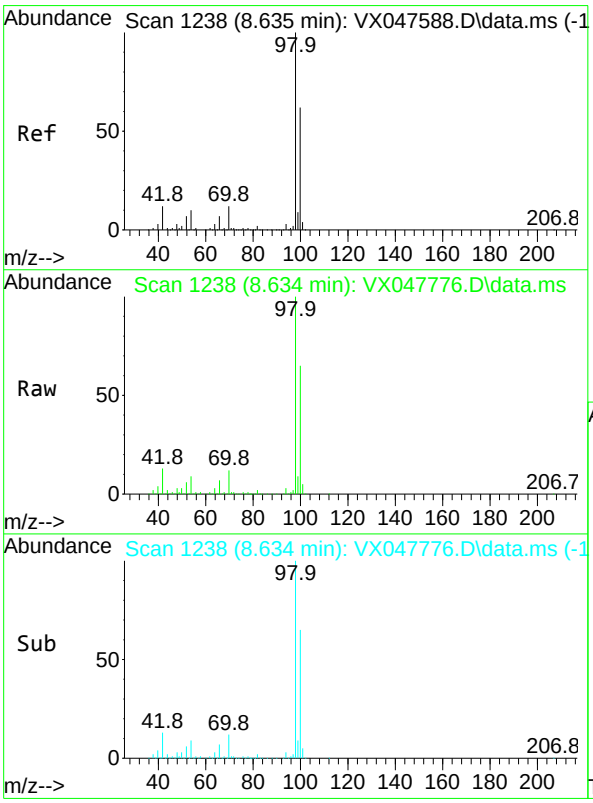
#44
Trichloroethene
Concen: 57.560 ug/l
RT: 7.116 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912DL

Tgt Ion:130 Resp: 117893

Ion	Ratio	Lower	Upper
130	100		
95	93.9	0.0	210.8

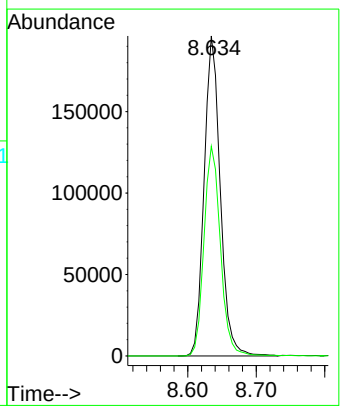


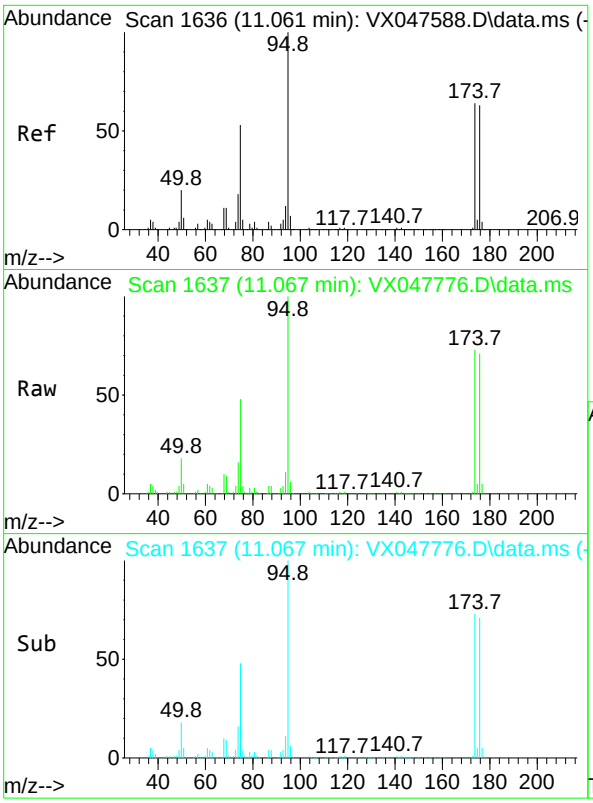


#50
Toluene-d8
Concen: 48.797 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Tgt Ion: 98 Resp: 322305

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.0	79.4



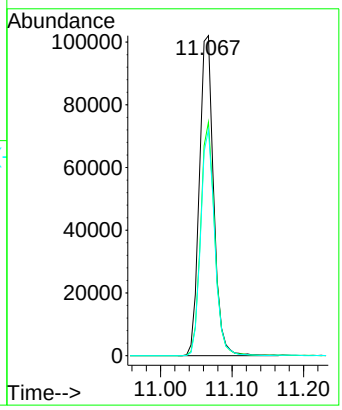


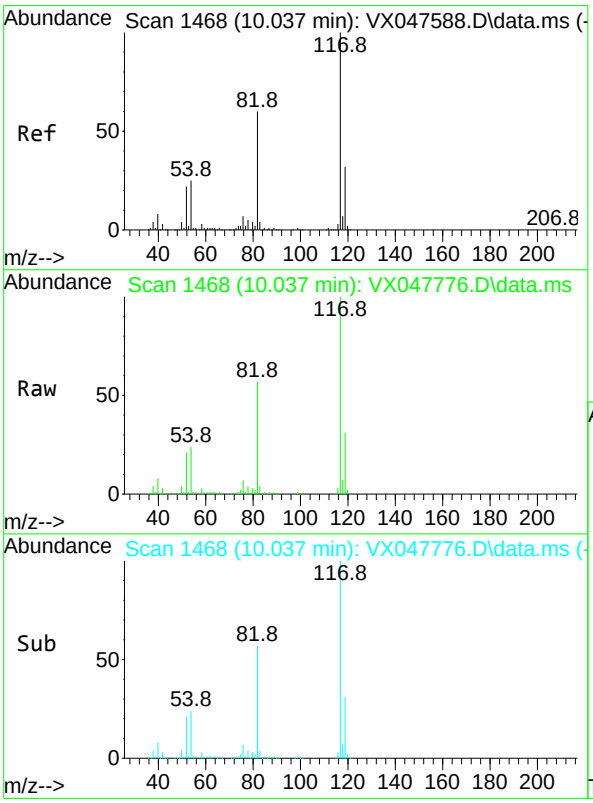
#62
4-Bromofluorobenzene
Concen: 56.373 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912DL

Tgt Ion: 95 Resp: 141312

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	69.4	0.0	138.4

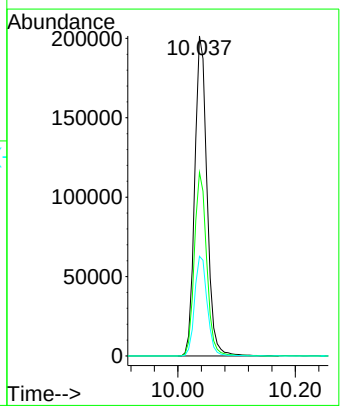


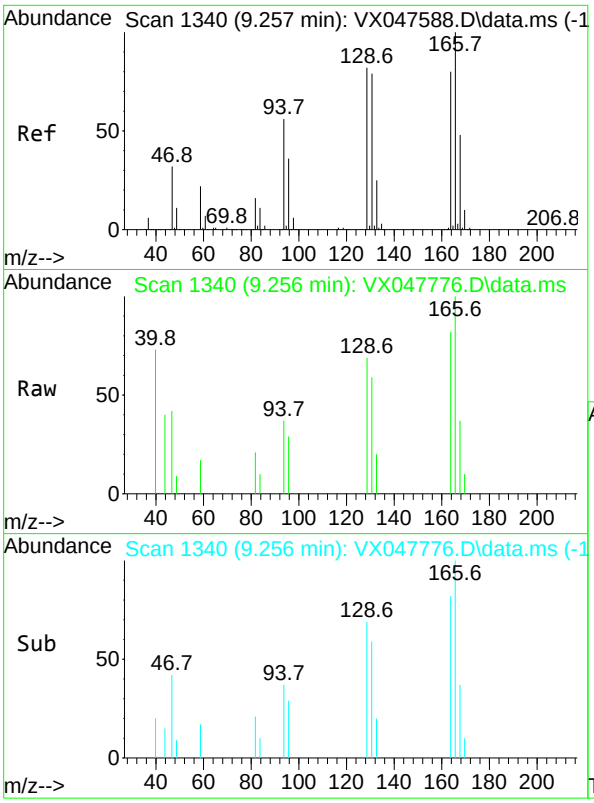


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Tgt Ion:117 Resp: 292272

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.8	71.6
119	31.1	25.2	37.8



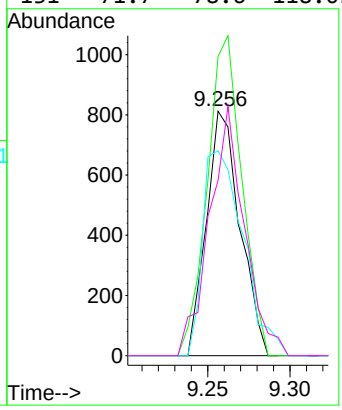


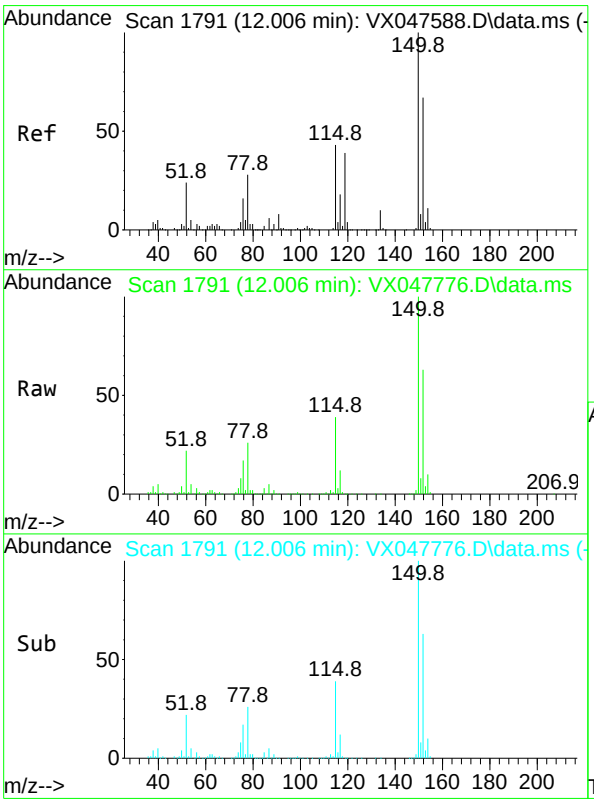
#64
Tetrachloroethene
Concen: 0.604 ug/l
RT: 9.256 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912DL

Tgt Ion:164 Resp: 1150

Ion	Ratio	Lower	Upper
164	100		
166	122.4	100.2	150.2
129	83.9	81.8	122.6
131	71.7	78.6	118.0#

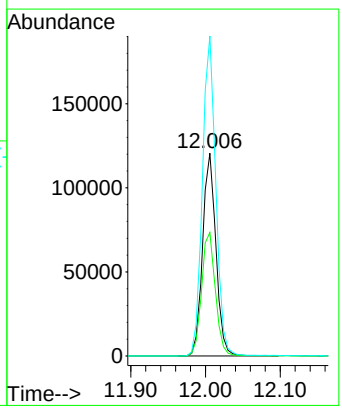




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047776.D
Acq: 24 Sep 2025 15:23

Tgt Ion:152 Resp: 149875

Ion	Ratio	Lower	Upper
152	100		
115	63.0	44.9	134.5
150	158.0	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-21	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047739.D	1	09/23/25 17:16	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	91.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.60		0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.90	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.34	J	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	2.20		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	J	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	380	E	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-21	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047739.D	1	09/23/25 17:16	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	8.00		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.3		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	47.3		89 - 112		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	127000	5.544				
540-36-3	1,4-Difluorobenzene	268000	6.751				
3114-55-4	Chlorobenzene-d5	263000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	132000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-21	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047739.D	1	09/23/25 17:16	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047739.D
Acq On : 23 Sep 2025 17:16
Operator : JC/MD
Sample : Q3097-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Quant Time: Sep 24 01:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

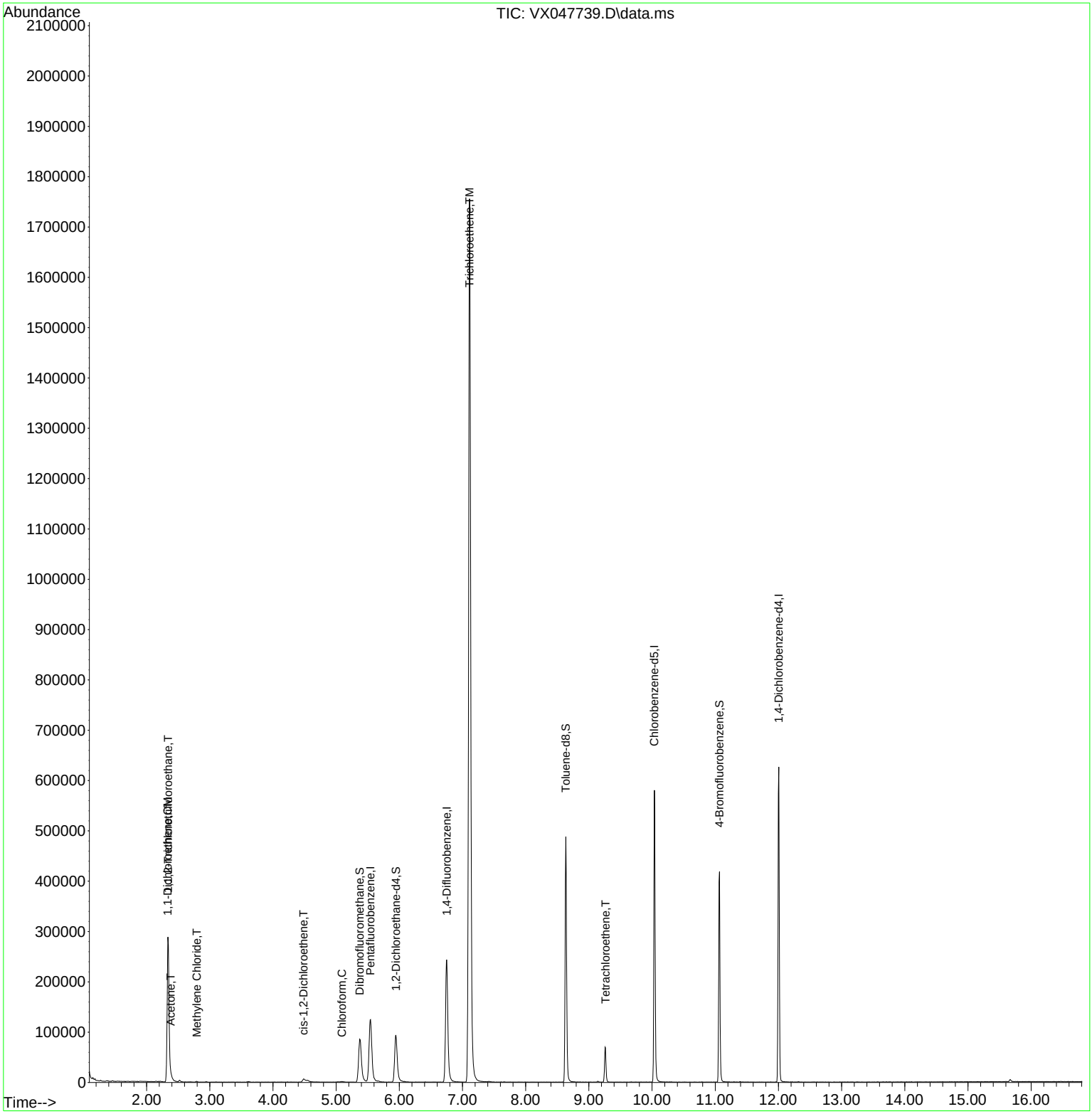
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	127092	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	268101	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	262928	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	131853	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	101743	50.294	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.580%			
35) Dibromofluoromethane	5.373	113	85074	47.315	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.640%			
50) Toluene-d8	8.635	98	294134	47.277	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.560%			
62) 4-Bromofluorobenzene	11.067	95	123190	52.173	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.340%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	134162	91.267	ug/l	98
12) 1,1-Dichloroethene	2.331	96	2423	1.605	ug/l	89
16) Acetone	2.380	43	2514	2.858	ug/l	99
20) Methylene Chloride	2.794	84	623	0.335	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	4376	2.198	ug/l	88
30) Chloroform	5.093	83	1604	0.495	ug/l	89
44) Trichloroethene	7.110	130	729005	377.869	ug/l	97
64) Tetrachloroethene	9.262	164	13766	8.031	ug/l	98

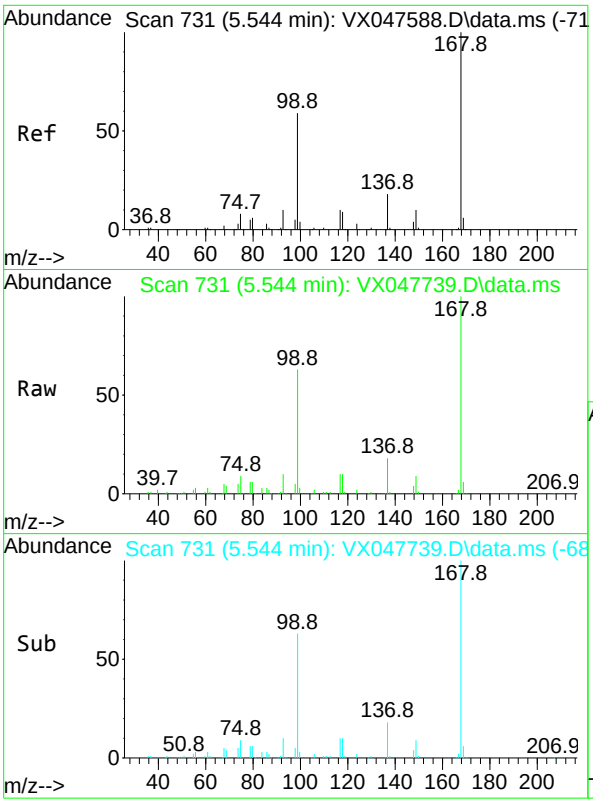
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047739.D
Acq On : 23 Sep 2025 17:16
Operator : JC/MD
Sample : Q3097-21
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Quant Time: Sep 24 01:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



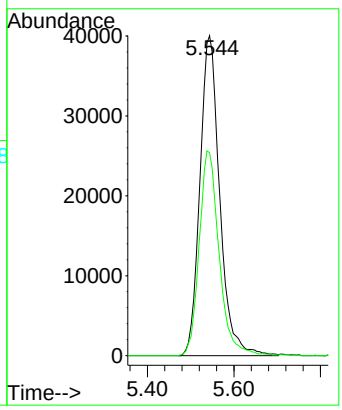


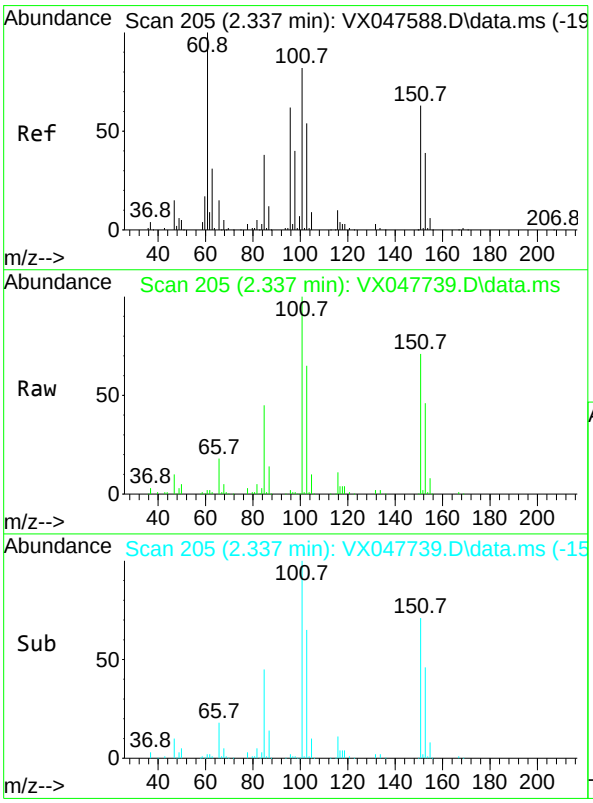
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Tgt Ion:168 Resp: 127092

Ion	Ratio	Lower	Upper
168	100		
99	63.4	48.8	73.2

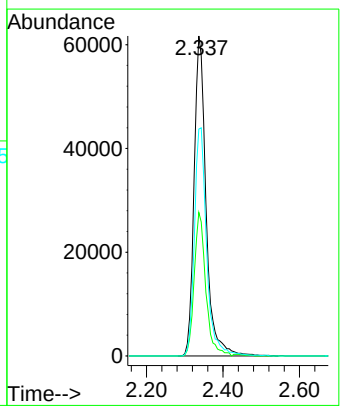


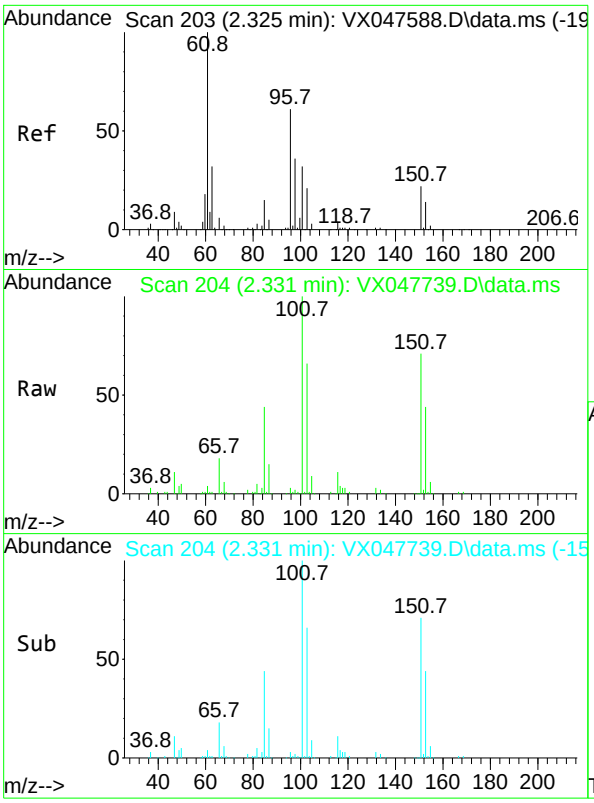


#9
1,1,2-Trichlorotrifluoroethane
Concen: 91.267 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Tgt Ion:101 Resp: 134162

Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.5	53.3
151	73.0	59.4	89.0



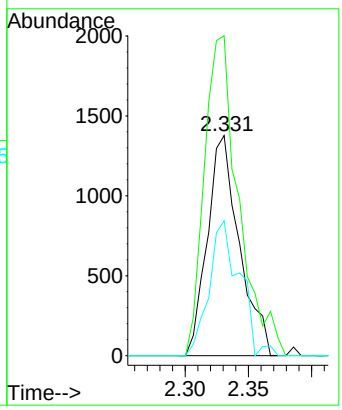


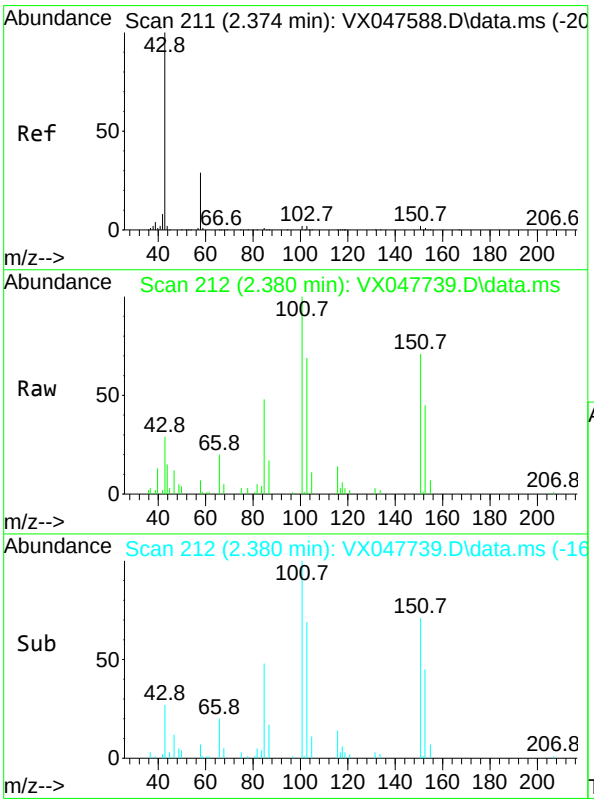
#12
1,1-Dichloroethene
Concen: 1.605 ug/l
RT: 2.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Tgt Ion: 96 Resp: 2423

Ion	Ratio	Lower	Upper
96	100		
61	145.4	131.0	196.6
98	61.3	47.7	71.5

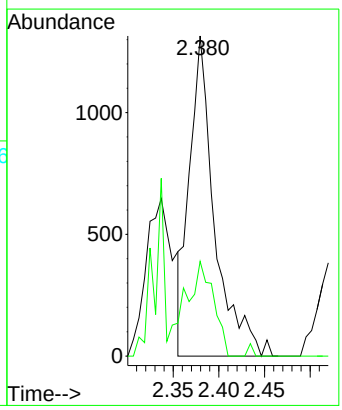


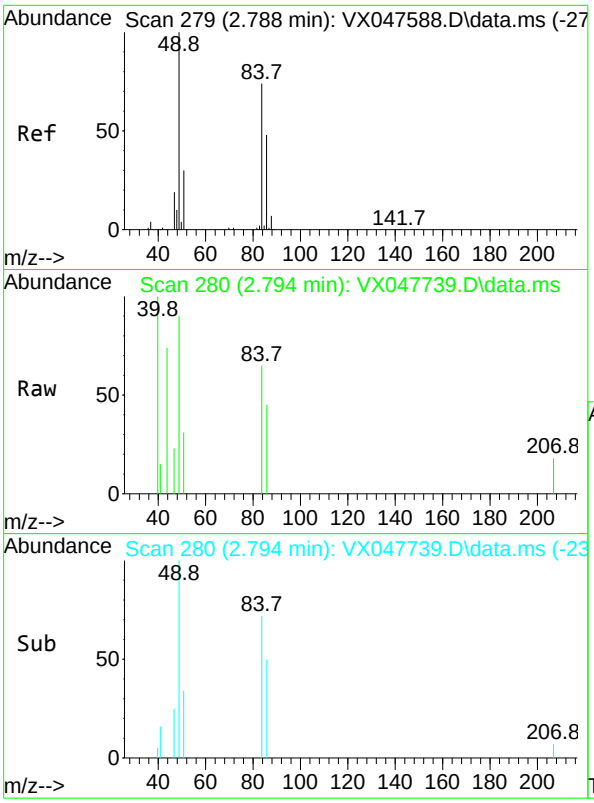


#16
Acetone
Concen: 2.858 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Tgt Ion: 43 Resp: 2514

Ion	Ratio	Lower	Upper
43	100		
58	29.6	23.4	35.0



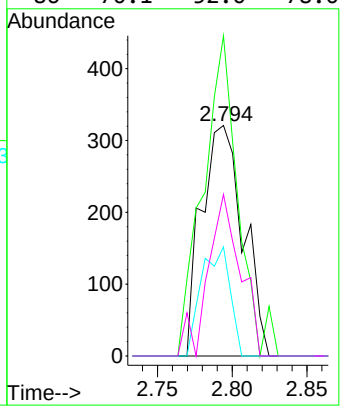


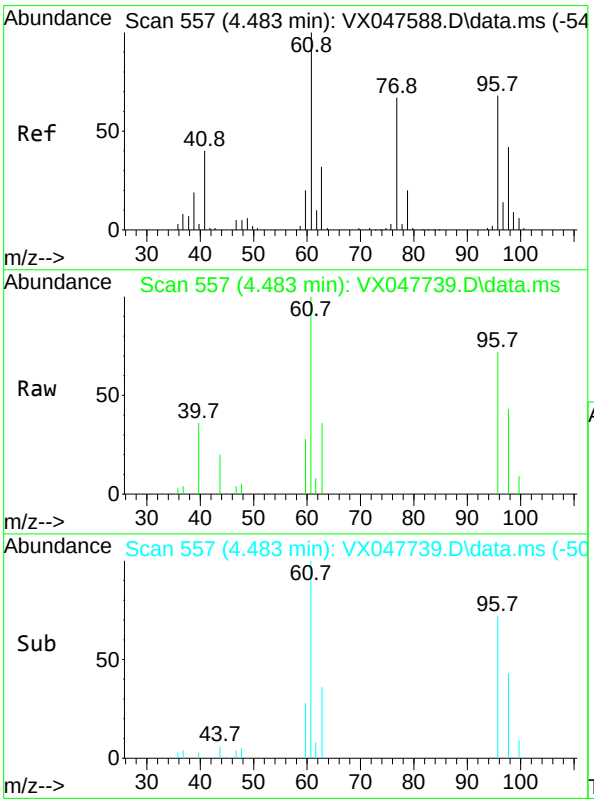
#20
Methylene Chloride
Concen: 0.335 ug/l
RT: 2.794 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Tgt Ion: 84 Resp: 623

Ion	Ratio	Lower	Upper
84	100		
49	138.9	108.6	162.8
51	47.4	32.6	48.8
86	70.1	52.0	78.0

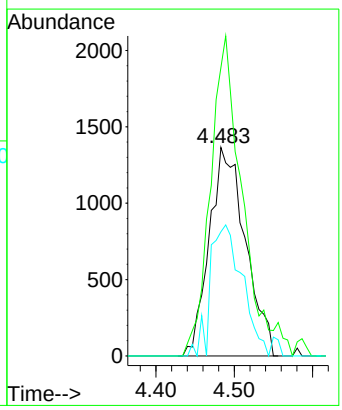


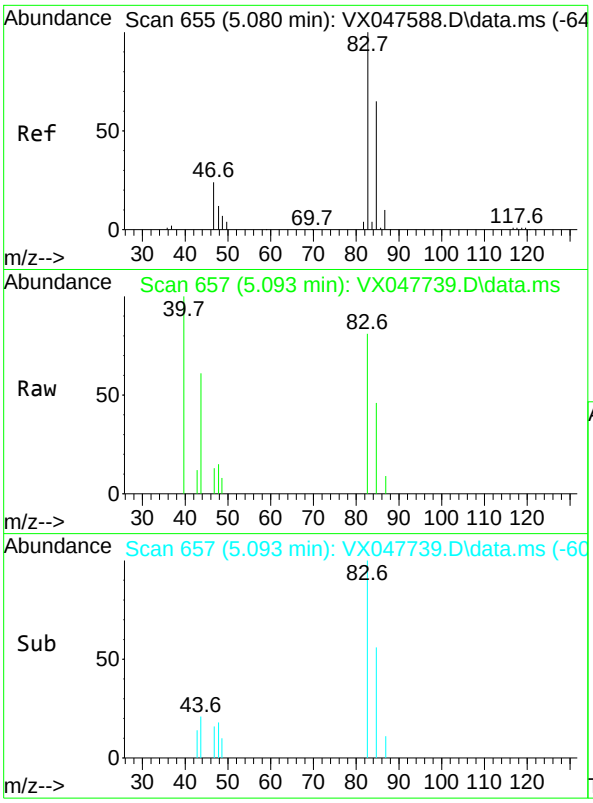


#27
cis-1,2-Dichloroethene
Concen: 2.198 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Tgt Ion: 96 Resp: 4376

Ion	Ratio	Lower	Upper
96	100		
61	135.7	0.0	303.2
98	55.1	0.0	127.8



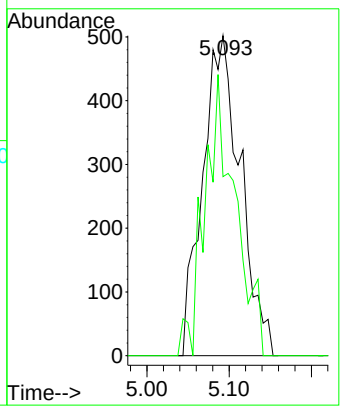


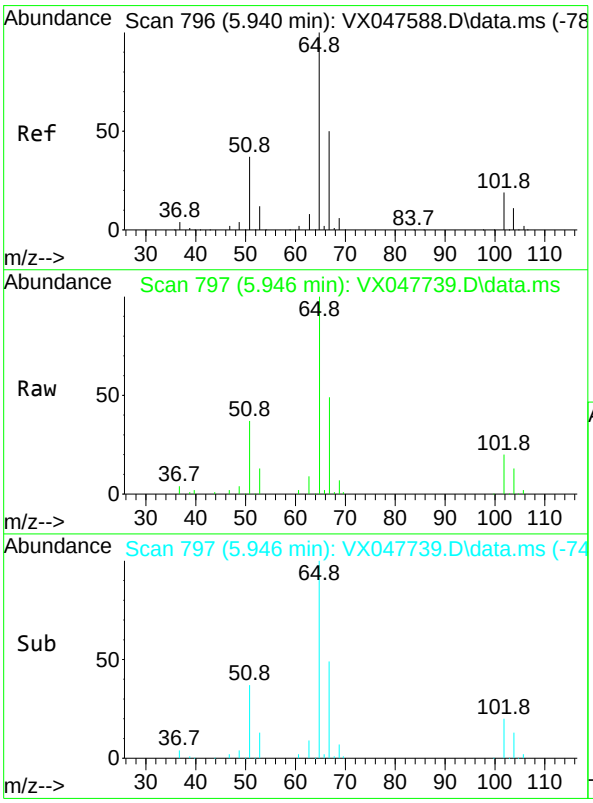
#30
Chloroform
Concen: 0.495 ug/l
RT: 5.093 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Tgt Ion: 83 Resp: 1604

Ion	Ratio	Lower	Upper
83	100		
85	56.0	51.8	77.6

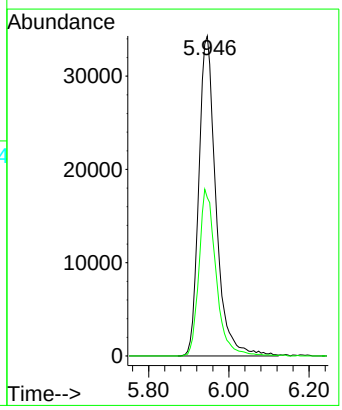


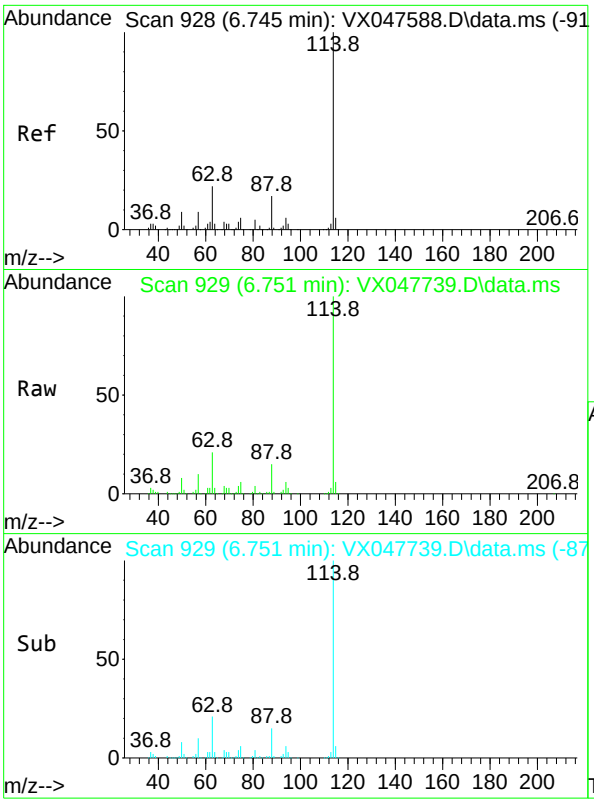


#33
1,2-Dichloroethane-d4
Concen: 50.294 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Tgt Ion: 65 Resp: 101743

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	103.0



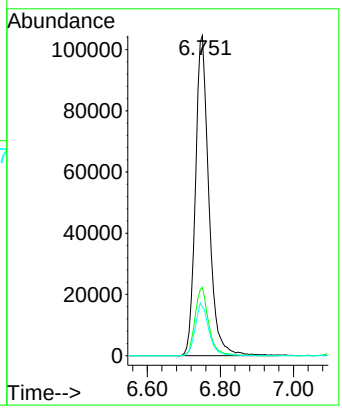


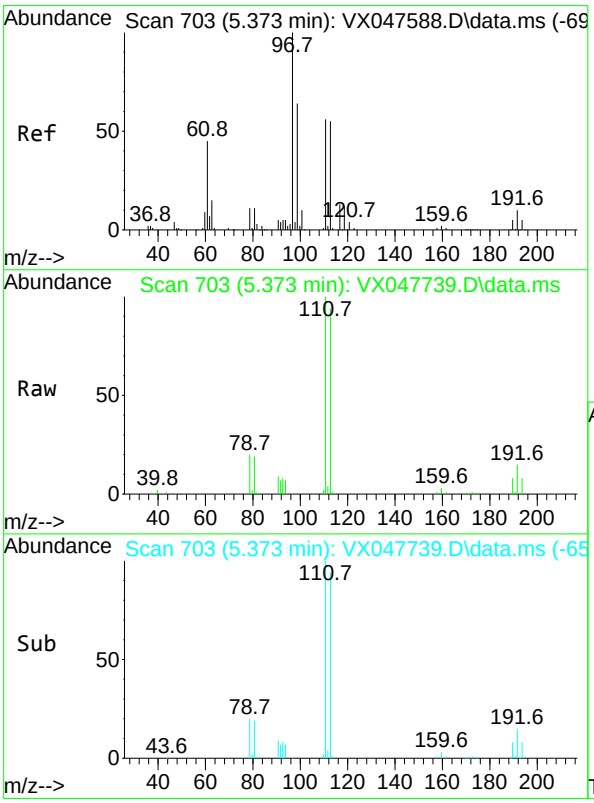
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Tgt Ion:114 Resp: 268101

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.0
88	15.3	0.0	34.2

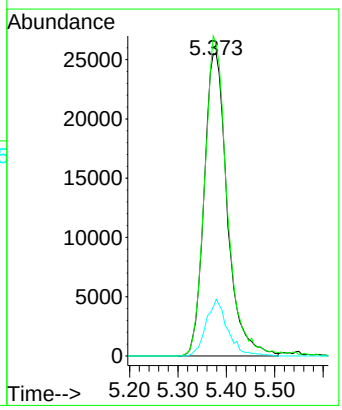


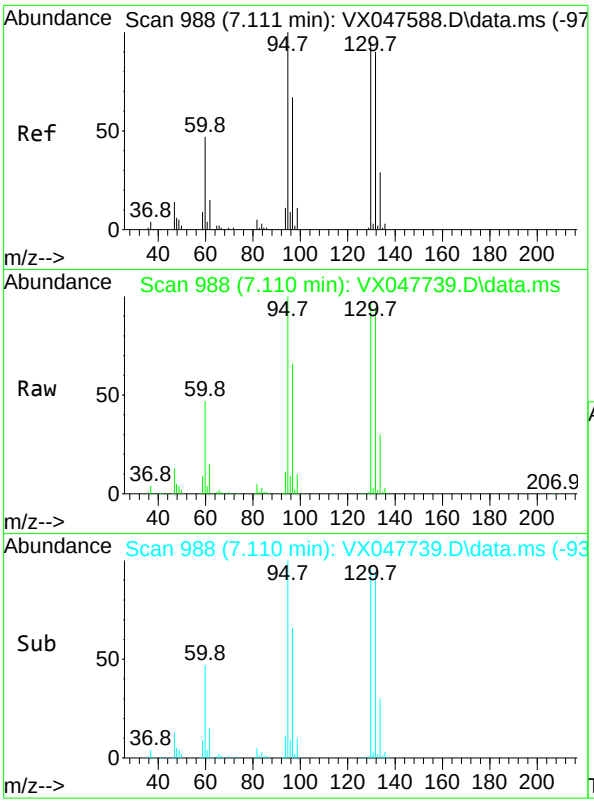


#35
Dibromofluoromethane
Concen: 47.315 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Tgt Ion:113 Resp: 85074

Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.9	121.3
192	17.5	14.2	21.4



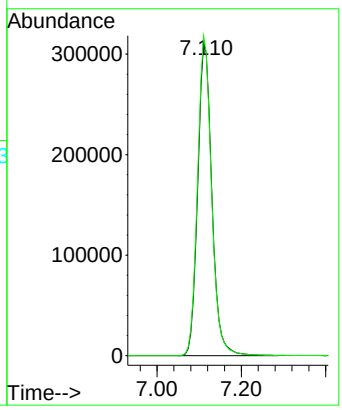


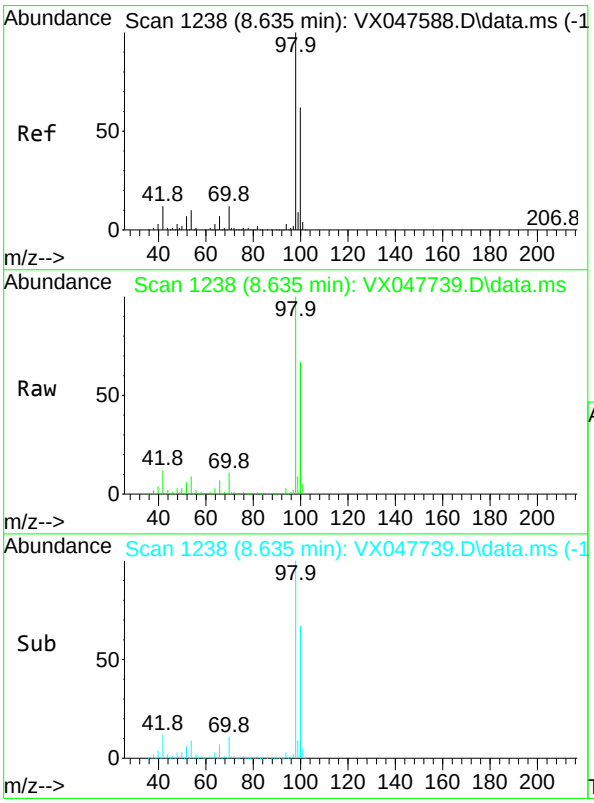
#44
Trichloroethene
Concen: 377.869 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Tgt Ion:130 Resp: 729005

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	210.8

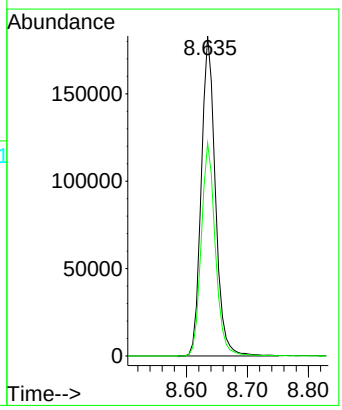


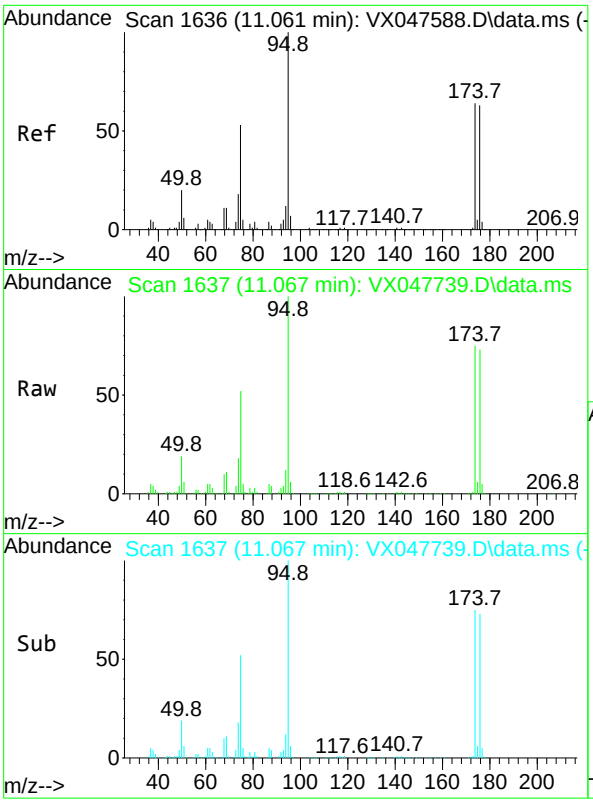


#50
Toluene-d8
Concen: 47.277 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Tgt Ion: 98 Resp: 294134

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.0	79.4



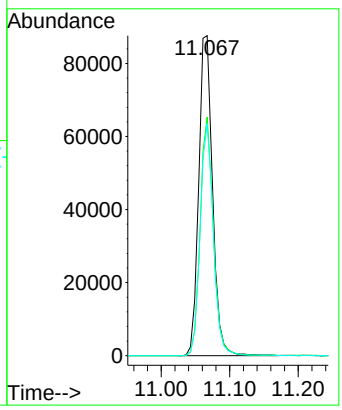


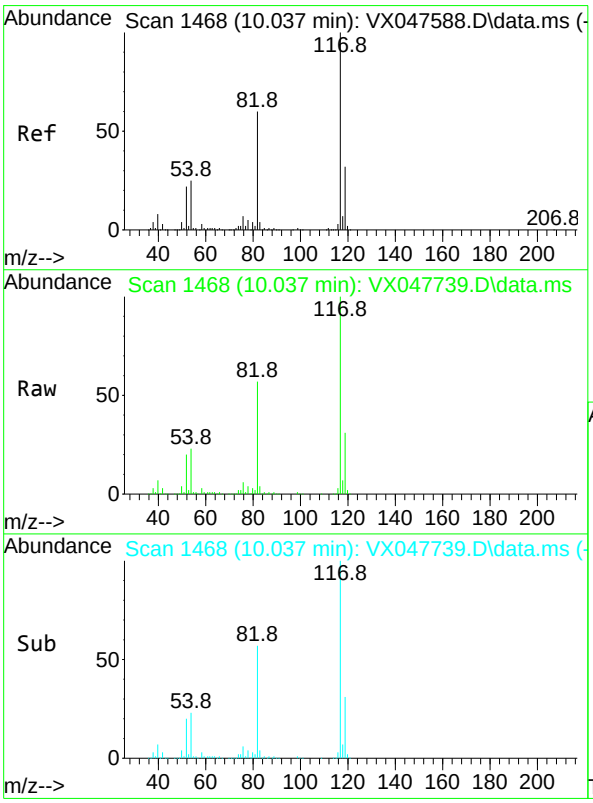
#62
4-Bromofluorobenzene
Concen: 52.173 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Tgt Ion: 95 Resp: 123190

Ion	Ratio	Lower	Upper
95	100		
174	71.1	0.0	141.6
176	69.0	0.0	138.4

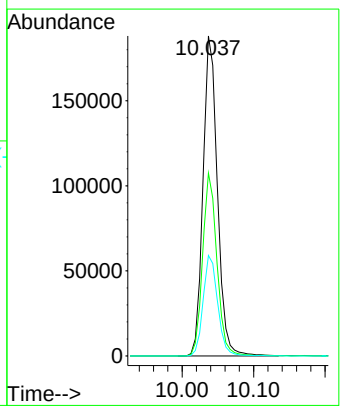


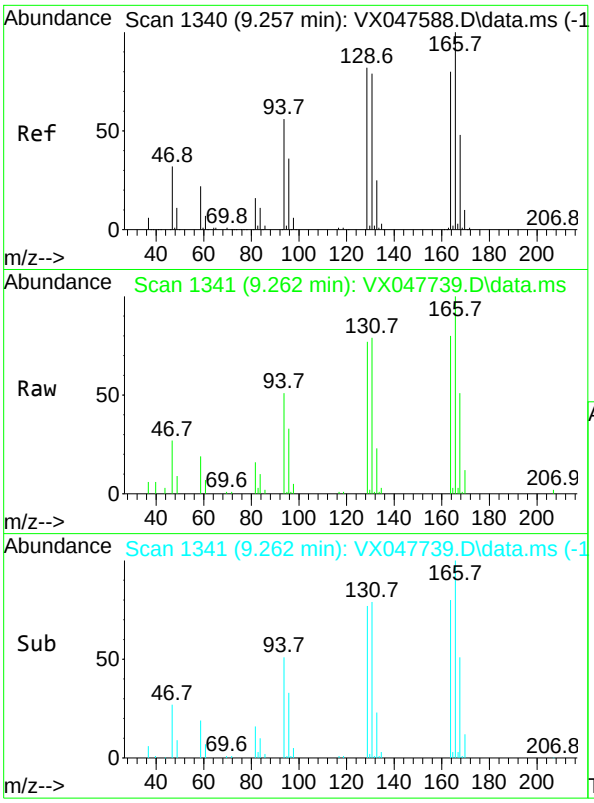


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Tgt Ion:117 Resp: 262928

Ion	Ratio	Lower	Upper
117	100		
82	57.2	47.8	71.6
119	31.4	25.2	37.8



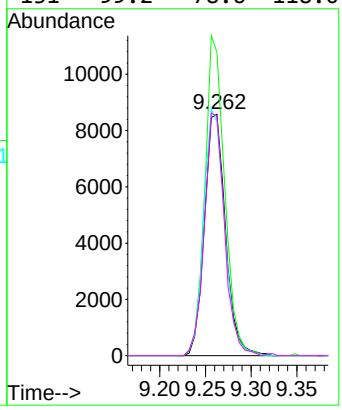


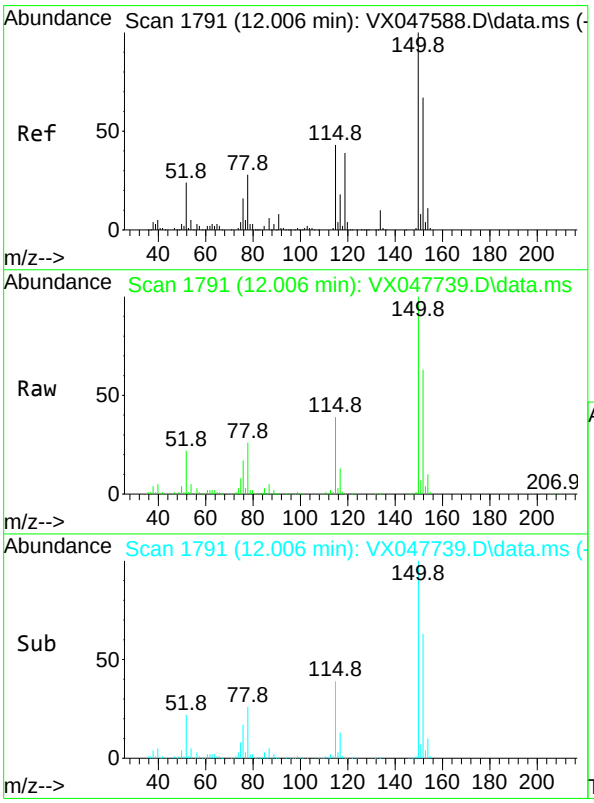
#64
Tetrachloroethene
Concen: 8.031 ug/l
RT: 9.262 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912

Tgt Ion:164 Resp: 13766

Ion	Ratio	Lower	Upper
164	100		
166	125.7	100.2	150.2
129	96.9	81.8	122.6
131	99.2	78.6	118.0

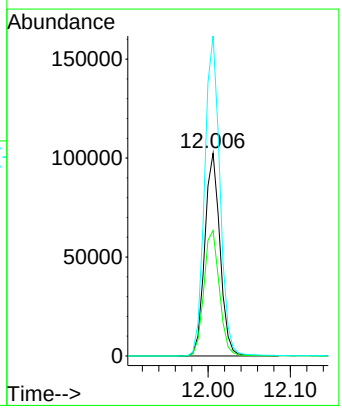




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047739.D
Acq: 23 Sep 2025 17:16

Tgt Ion:152 Resp: 131853

Ion	Ratio	Lower	Upper
152	100		
115	62.9	44.9	134.5
150	158.4	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D2-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-21DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047773.D	5	09/24/25 14:20	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	2.50	UD	1.10	2.50	5.00	ug/L
74-87-3	Chloromethane	2.50	UD	1.60	2.50	5.00	ug/L
75-01-4	Vinyl Chloride	3.80	UD	1.30	3.80	5.00	ug/L
74-83-9	Bromomethane	18.8	UD	7.20	18.8	25.0	ug/L
75-00-3	Chloroethane	3.80	UD	2.40	3.80	5.00	ug/L
75-69-4	Trichlorofluoromethane	2.50	UD	1.70	2.50	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	82.4	D	1.30	2.50	5.00	ug/L
75-35-4	1,1-Dichloroethene	3.80	UD	1.20	3.80	5.00	ug/L
67-64-1	Acetone	18.8	UD	7.60	18.8	25.0	ug/L
75-15-0	Carbon Disulfide	3.80	UD	1.10	3.80	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	2.50	UD	0.80	2.50	5.00	ug/L
79-20-9	Methyl Acetate	3.80	UD	1.40	3.80	5.00	ug/L
75-09-2	Methylene Chloride	2.50	UD	1.40	2.50	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	2.50	UD	1.20	2.50	5.00	ug/L
75-34-3	1,1-Dichloroethane	2.50	UD	1.20	2.50	5.00	ug/L
110-82-7	Cyclohexane	12.5	UD	7.30	12.5	25.0	ug/L
78-93-3	2-Butanone	12.5	UD	4.90	12.5	25.0	ug/L
56-23-5	Carbon Tetrachloride	2.50	UD	1.30	2.50	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	3.80	UD	0.95	3.80	5.00	ug/L
74-97-5	Bromochloromethane	2.50	UD	1.10	2.50	5.00	ug/L
67-66-3	Chloroform	2.50	UD	1.30	2.50	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	2.50	UD	1.00	2.50	5.00	ug/L
108-87-2	Methylcyclohexane	2.50	UD	0.80	2.50	5.00	ug/L
71-43-2	Benzene	2.50	UD	0.75	2.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	2.50	UD	1.10	2.50	5.00	ug/L
79-01-6	Trichloroethene	350	D	0.47	3.80	5.00	ug/L
78-87-5	1,2-Dichloropropane	2.50	UD	1.00	2.50	5.00	ug/L
75-27-4	Bromodichloromethane	2.50	UD	1.10	2.50	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	12.5	UD	3.40	12.5	25.0	ug/L
108-88-3	Toluene	2.50	UD	0.70	2.50	5.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D2-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-21DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047773.D	5	09/24/25 14:20	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.50	UD	0.85	2.50	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	2.50	UD	0.80	2.50	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	2.50	UD	1.10	2.50	5.00	ug/L
591-78-6	2-Hexanone	12.5	UD	4.50	12.5	25.0	ug/L
124-48-1	Dibromochloromethane	2.50	UD	0.90	2.50	5.00	ug/L
106-93-4	1,2-Dibromoethane	2.50	UD	0.75	2.50	5.00	ug/L
127-18-4	Tetrachloroethene	7.10	D	1.20	2.50	5.00	ug/L
108-90-7	Chlorobenzene	2.50	UD	0.60	2.50	5.00	ug/L
100-41-4	Ethyl Benzene	2.50	UD	0.65	2.50	5.00	ug/L
179601-23-1	m/p-Xylenes	5.00	UD	1.20	5.00	10.0	ug/L
95-47-6	o-Xylene	2.50	UD	0.60	2.50	5.00	ug/L
100-42-5	Styrene	2.50	UD	0.75	2.50	5.00	ug/L
75-25-2	Bromoform	2.50	UD	0.95	2.50	5.00	ug/L
98-82-8	Isopropylbenzene	2.50	UD	0.60	2.50	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.50	UD	1.30	2.50	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	2.50	UD	0.80	2.50	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	2.50	UD	0.95	2.50	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	2.50	UD	0.80	2.50	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.80	UD	2.70	3.80	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	2.50	UD	1.00	2.50	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	3.80	UD	1.00	3.80	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.2		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	48.1		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	130000	5.538				
540-36-3	1,4-Difluorobenzene	275000	6.745				
3114-55-4	Chlorobenzene-d5	273000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	133000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE120D2-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-21DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047773.D	5	09/24/25 14:20	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047773.D
Acq On : 24 Sep 2025 14:20
Operator : JC/MD
Sample : Q3097-21DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912DL

Quant Time: Sep 25 01:14:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

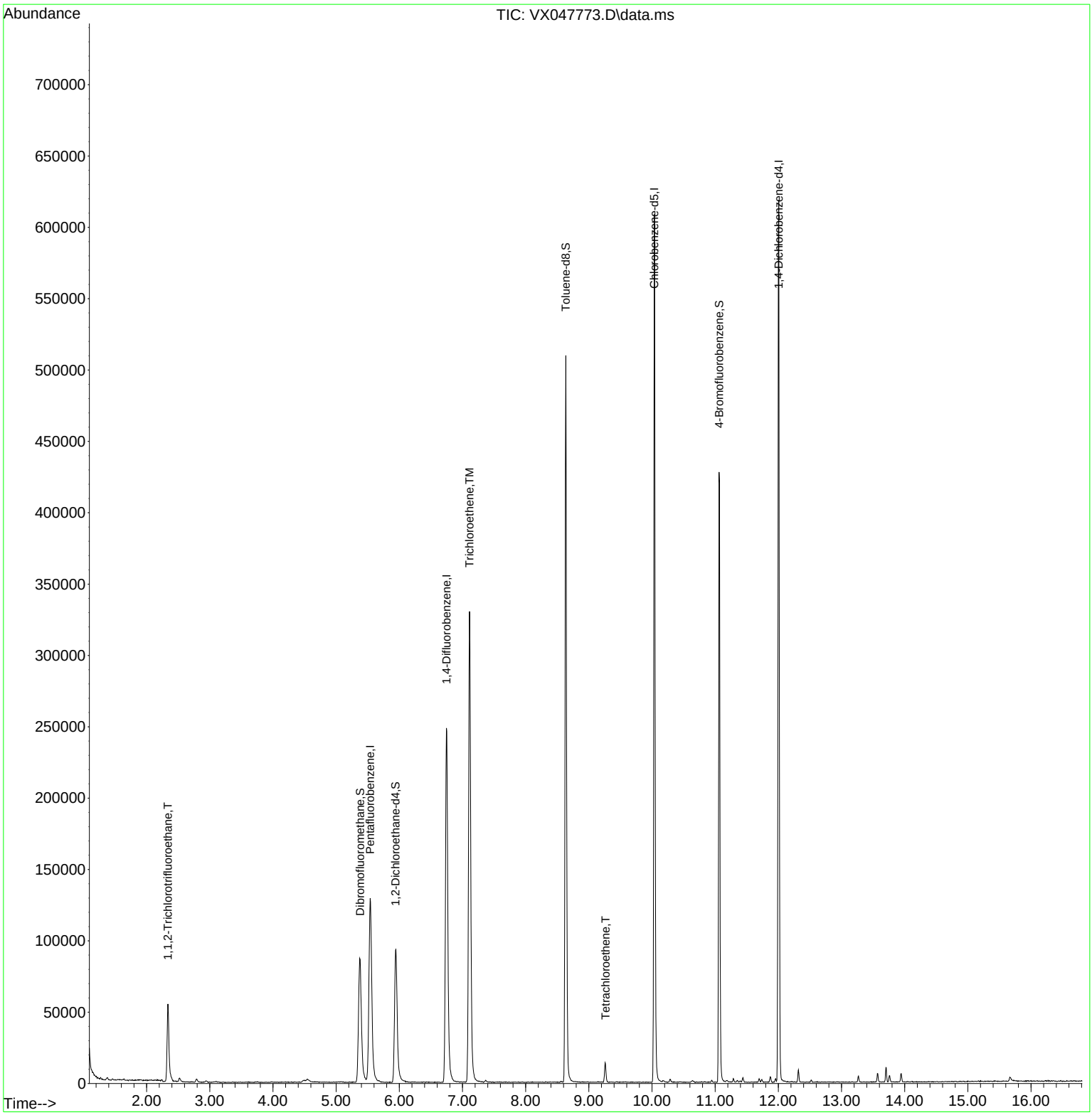
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	130255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	274677	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	272538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	133342	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	102091	49.240	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.480%			
35) Dibromofluoromethane	5.379	113	87280	47.380	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.760%			
50) Toluene-d8	8.635	98	306466	48.079	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.160%			
62) 4-Bromofluorobenzene	11.061	95	124008	51.262	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.520%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	24819	16.474	ug/l	98
44) Trichloroethene	7.111	130	137349	69.488	ug/l	96
64) Tetrachloroethene	9.263	164	2530	1.424	ug/l	91

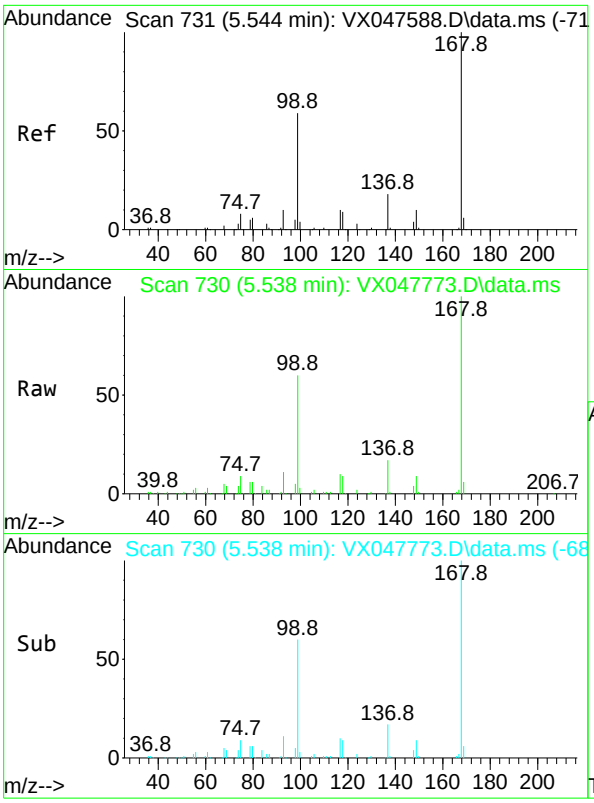
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047773.D
Acq On : 24 Sep 2025 14:20
Operator : JC/MD
Sample : Q3097-21DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912DL

Quant Time: Sep 25 01:14:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



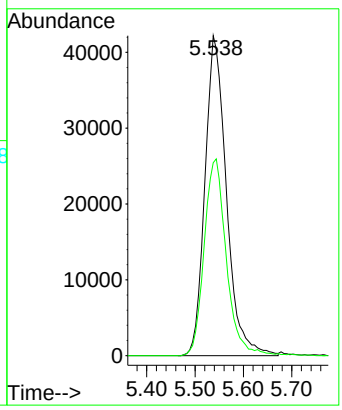


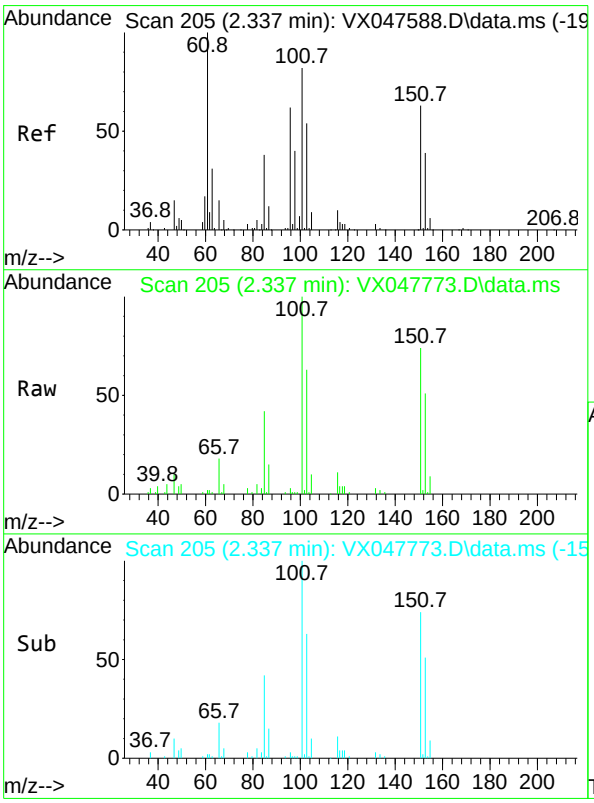
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912DL

Tgt Ion:168 Resp: 130255

Ion	Ratio	Lower	Upper
168	100		
99	60.3	48.8	73.2

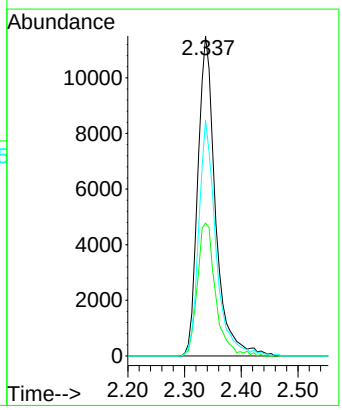


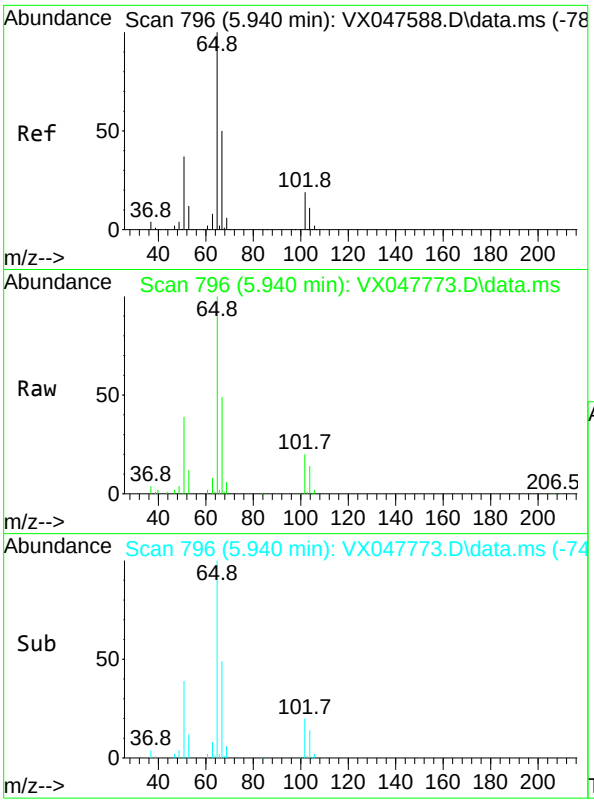


#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.474 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Tgt Ion:101 Resp: 24819

Ion	Ratio	Lower	Upper
101	100		
85	43.1	35.5	53.3
151	71.9	59.4	89.0



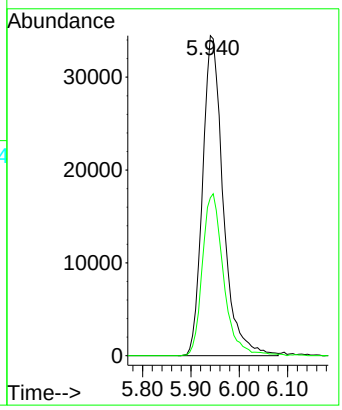


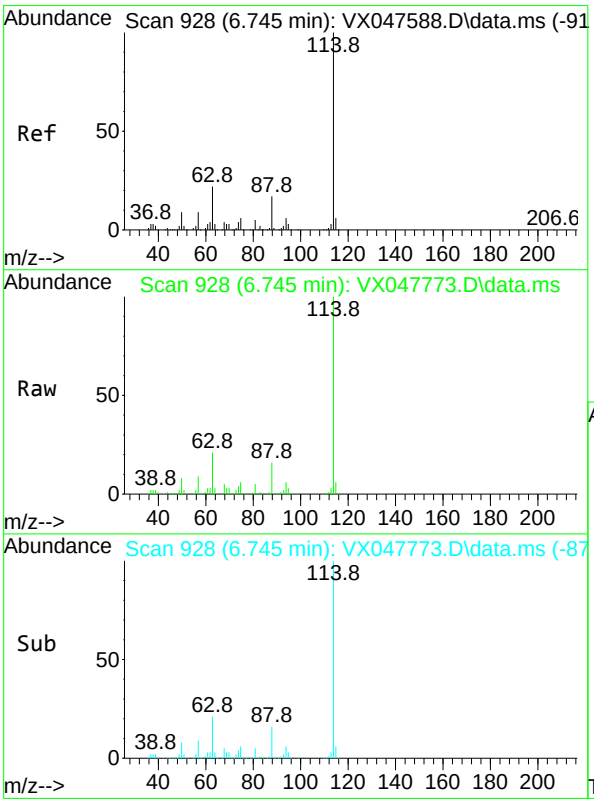
#33
1,2-Dichloroethane-d4
Concen: 49.240 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912DL

Tgt Ion: 65 Resp: 102091

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	103.0

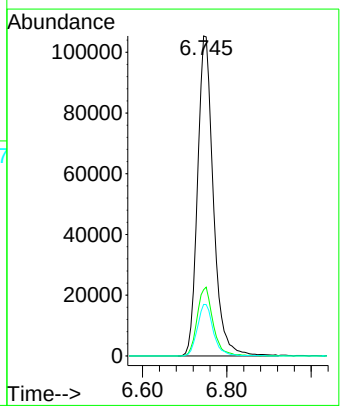


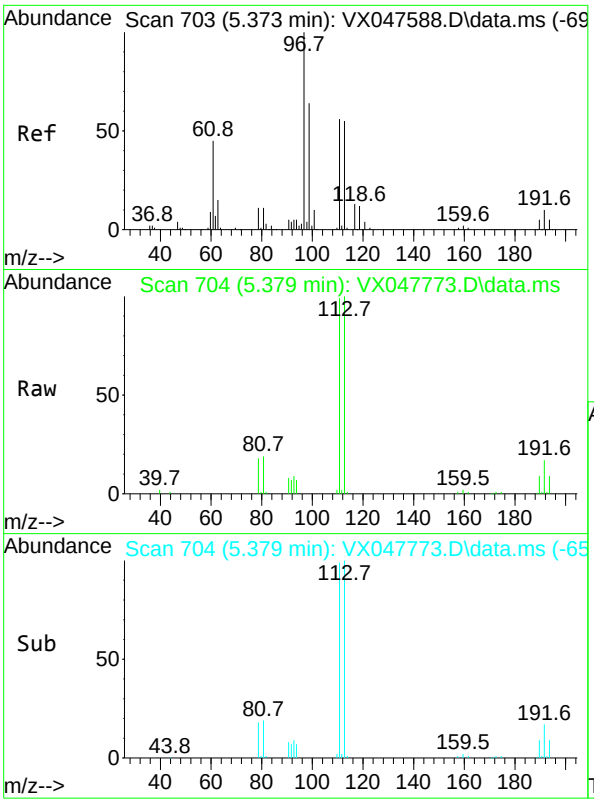


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Tgt Ion:114 Resp: 274677

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	16.1	0.0	34.2



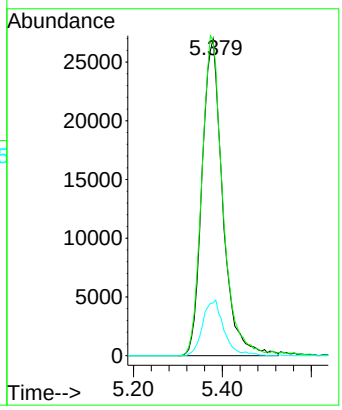


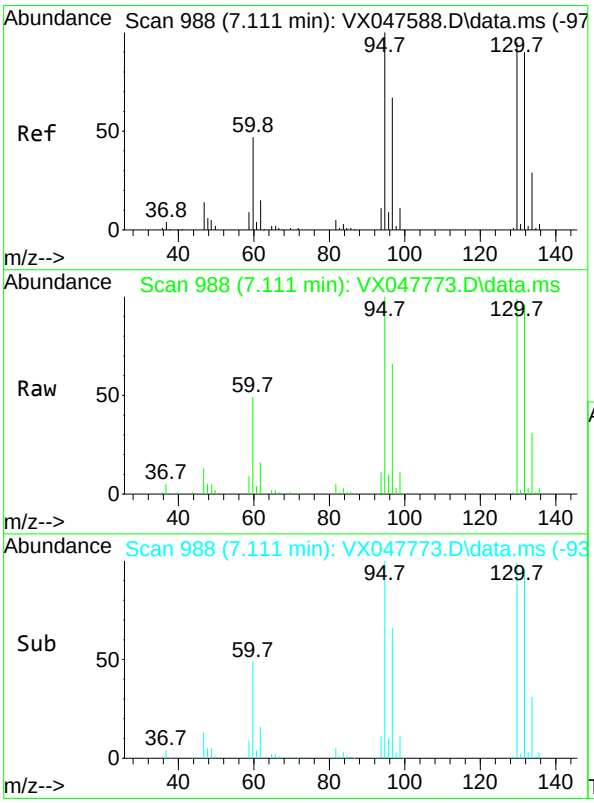
#35
Dibromofluoromethane
Concen: 47.380 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912DL

Tgt Ion:113 Resp: 87280

Ion	Ratio	Lower	Upper
113	100		
111	102.1	80.9	121.3
192	18.0	14.2	21.4

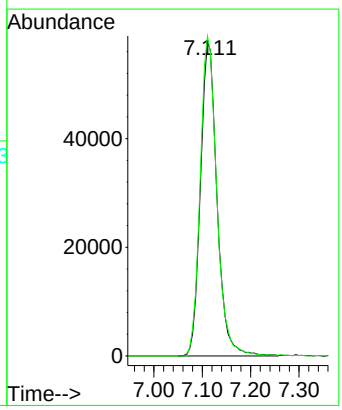


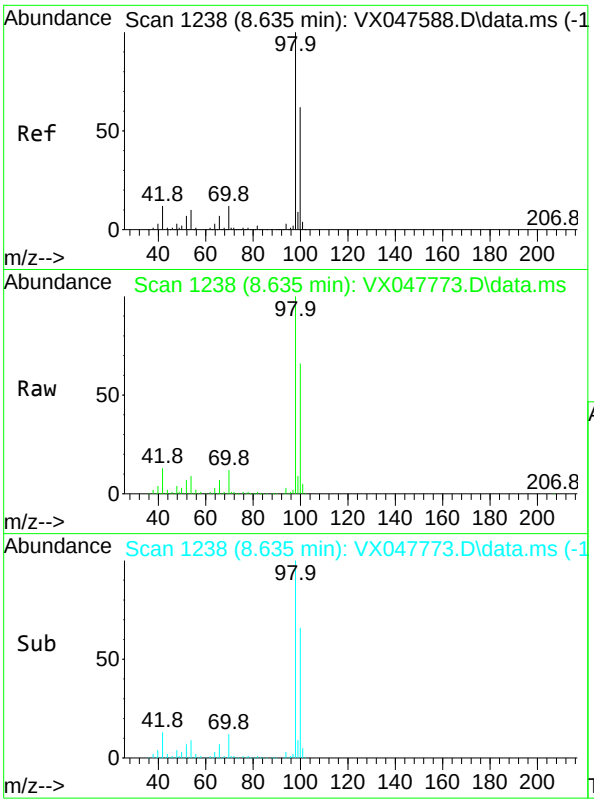


#44
Trichloroethene
Concen: 69.488 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Tgt Ion:130 Resp: 137349

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	210.8



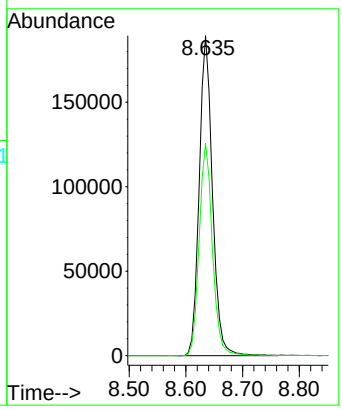


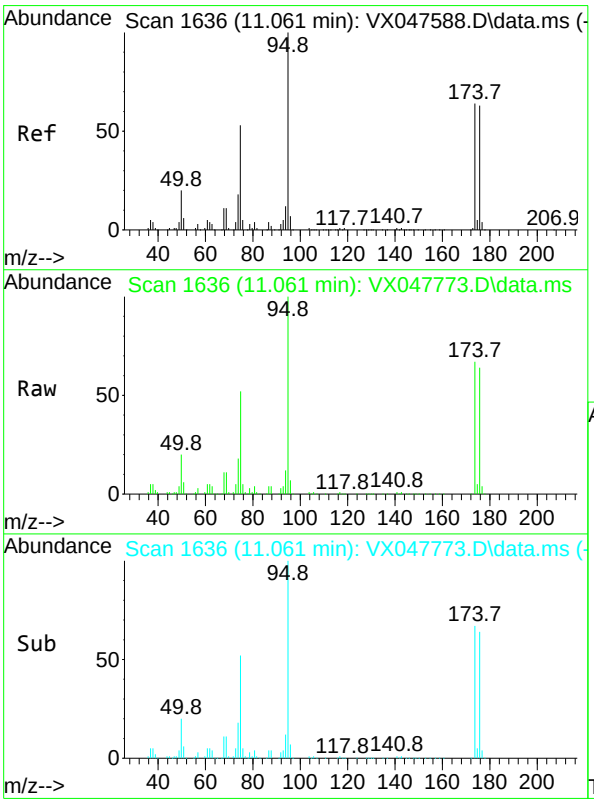
#50
Toluene-d8
Concen: 48.079 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912DL

Tgt Ion: 98 Resp: 306466

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.0	79.4

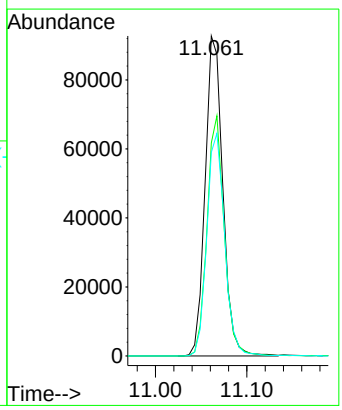


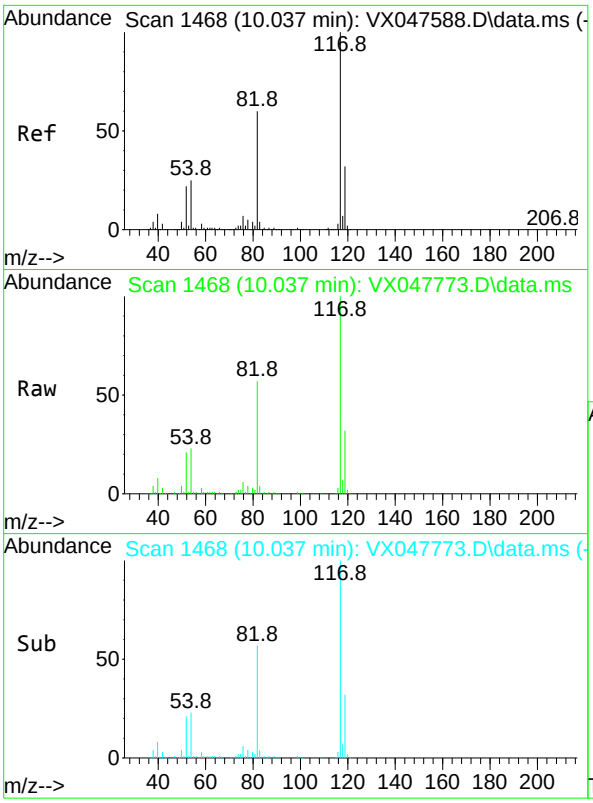


#62
4-Bromofluorobenzene
Concen: 51.262 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Tgt Ion: 95 Resp: 124008

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	141.6
176	70.2	0.0	138.4



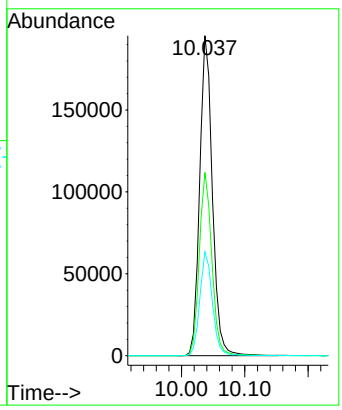


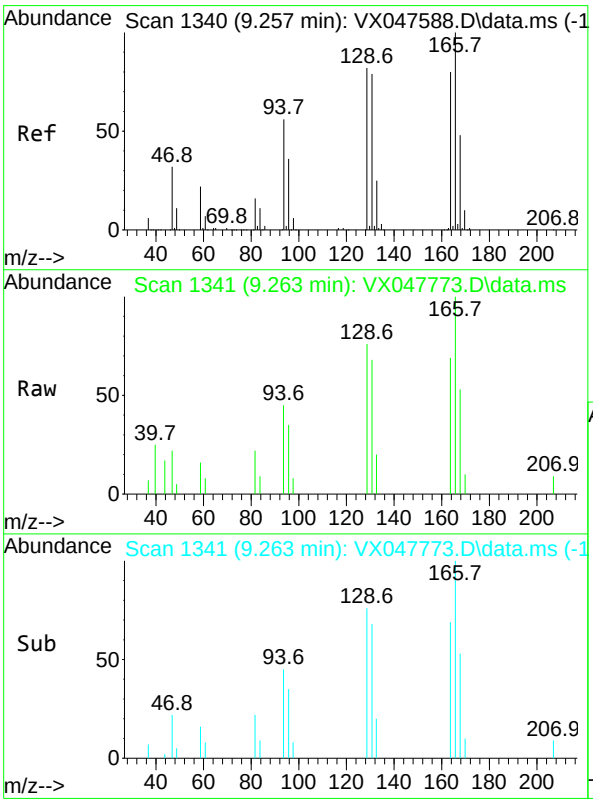
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912DL

Tgt Ion:117 Resp: 272538

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.8	71.6
119	32.4	25.2	37.8

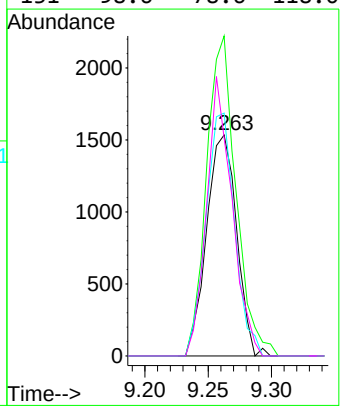


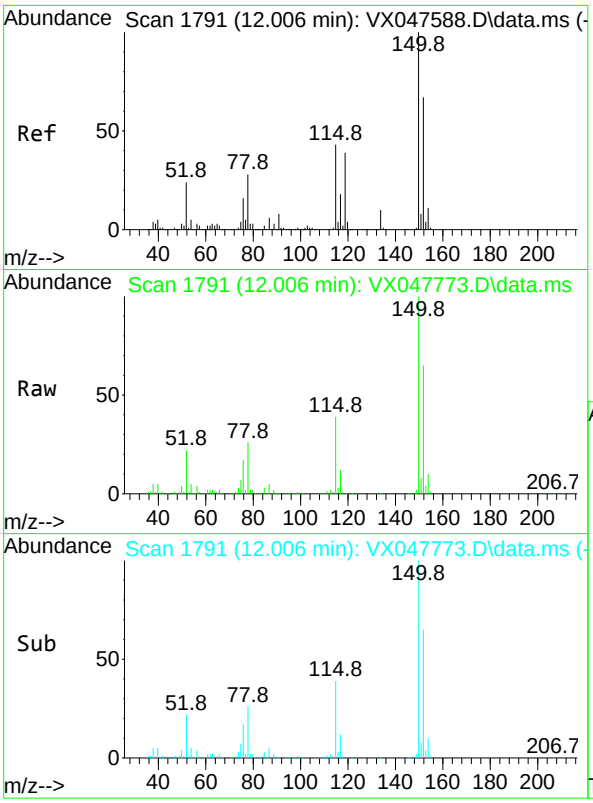


#64
Tetrachloroethene
Concen: 1.424 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Tgt Ion:164 Resp: 2530

Ion	Ratio	Lower	Upper
164	100		
166	144.9	100.2	150.2
129	109.9	81.8	122.6
131	98.6	78.6	118.0



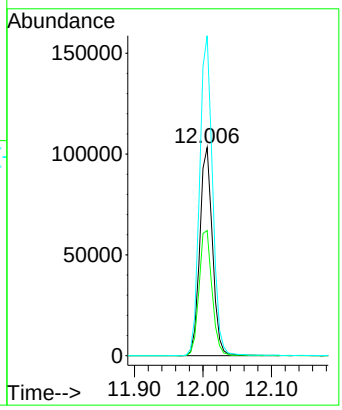


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047773.D
Acq: 24 Sep 2025 14:20

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20250912DL

Tgt Ion:152 Resp: 133342

Ion	Ratio	Lower	Upper
152	100		
115	61.4	44.9	134.5
150	156.5	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D1-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-22	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047740.D	1	09/23/25 17:36	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.30	J	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.46	J	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	5.30		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D1-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-22	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047740.D	1	09/23/25 17:36	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.55	J	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.9		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	48.2		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	132000	5.544				
540-36-3	1,4-Difluorobenzene	280000	6.751				
3114-55-4	Chlorobenzene-d5	279000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	140000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D1-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-22	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047740.D	1	09/23/25 17:36	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047740.D
Acq On : 23 Sep 2025 17:36
Operator : JC/MD
Sample : Q3097-22
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20250912

Quant Time: Sep 24 01:37:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

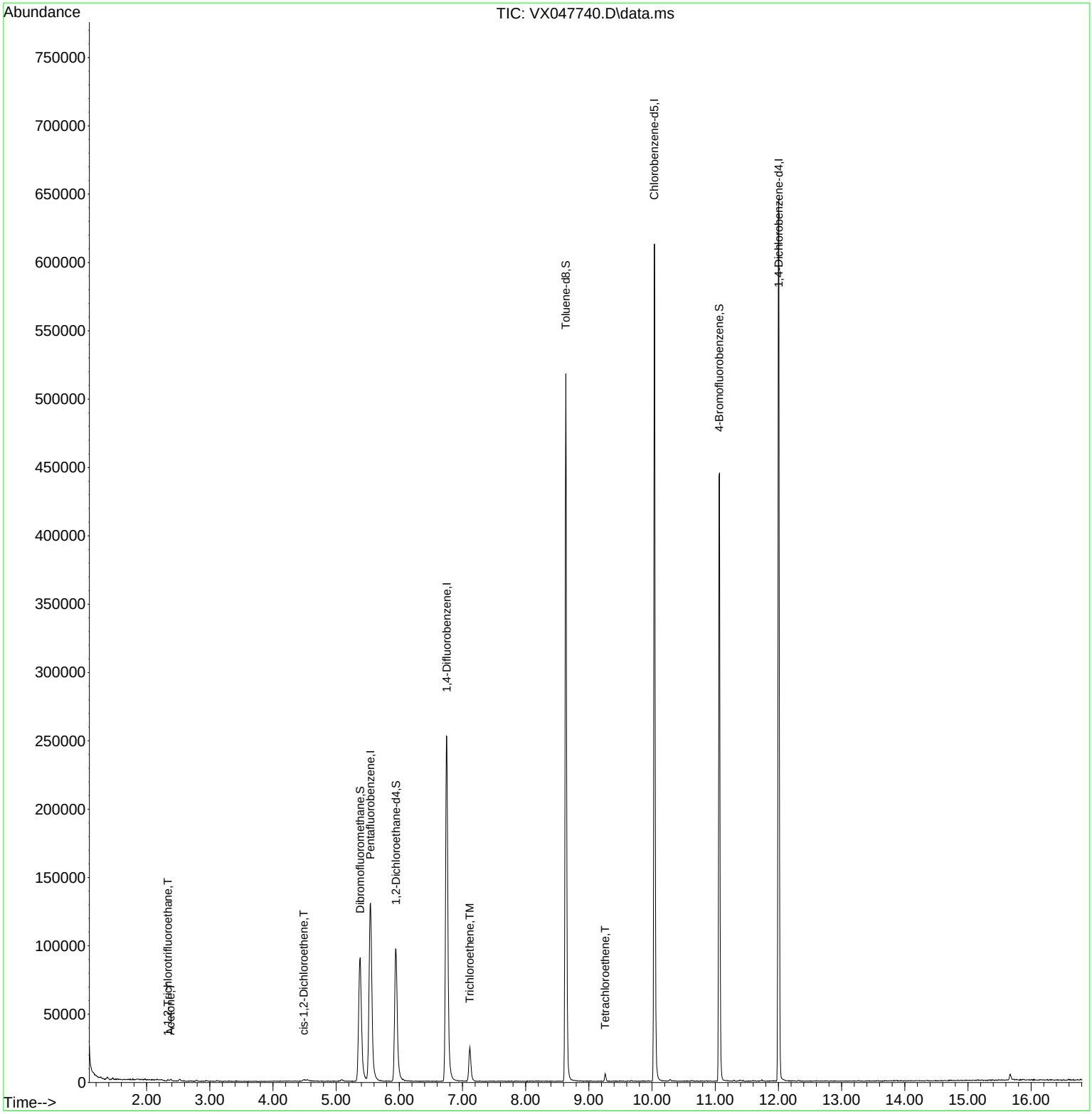
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	132076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	279533	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	278696	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	139922	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	107026	50.909	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.820%			
35) Dibromofluoromethane	5.379	113	90188	48.108	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.220%			
50) Toluene-d8	8.634	98	312762	48.215	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.420%			
62) 4-Bromofluorobenzene	11.061	95	131138	53.268	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.540%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	462	0.302	ug/l #	74
16) Acetone	2.380	43	1247	1.364	ug/l	97
27) cis-1,2-Dichloroethene	4.489	96	943	0.456	ug/l	71
44) Trichloroethene	7.116	130	10630	5.285	ug/l	98
64) Tetrachloroethene	9.256	164	990	0.545	ug/l	88

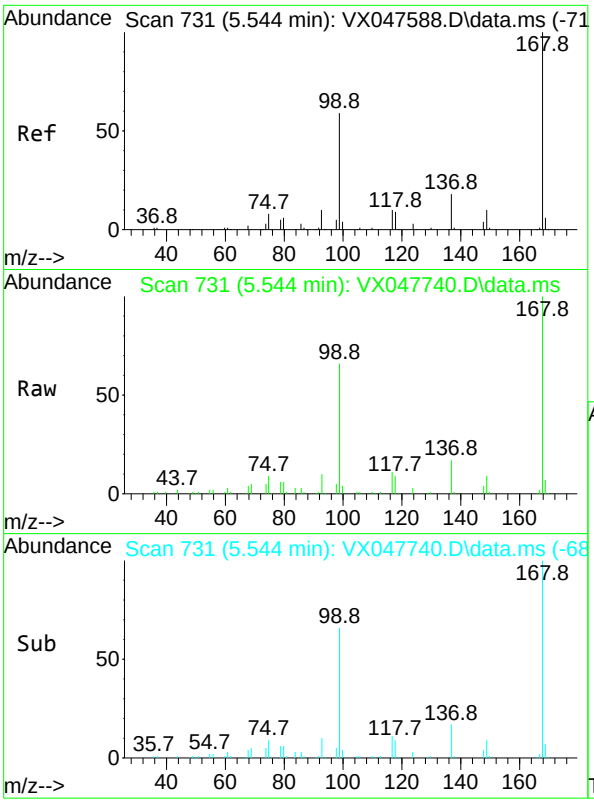
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047740.D
Acq On : 23 Sep 2025 17:36
Operator : JC/MD
Sample : Q3097-22
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20250912

Quant Time: Sep 24 01:37:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



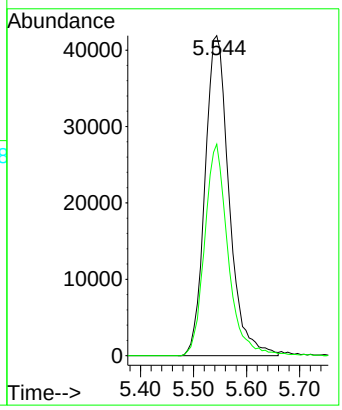


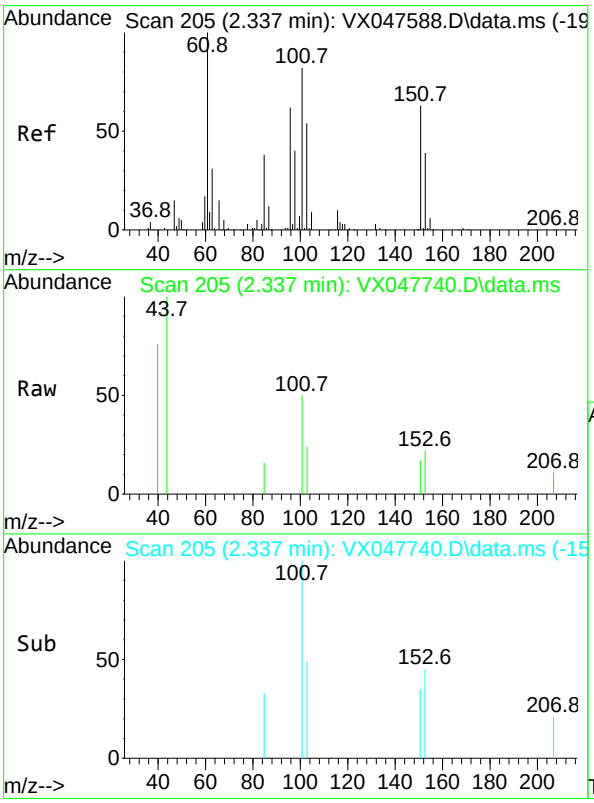
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20250912

Tgt Ion:168 Resp: 132076

Ion	Ratio	Lower	Upper
168	100		
99	66.1	48.8	73.2

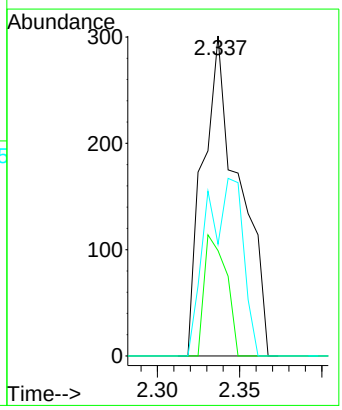


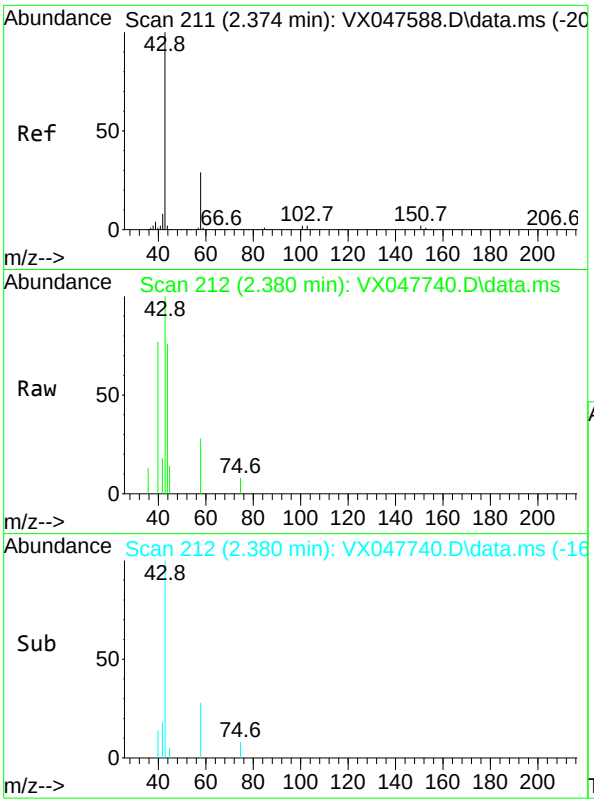


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.302 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Tgt Ion:101 Resp: 462

Ion	Ratio	Lower	Upper
101	100		
85	22.7	35.5	53.3#
151	56.1	59.4	89.0#



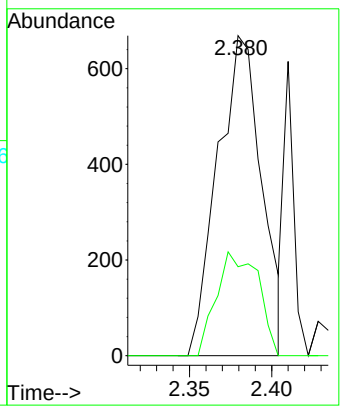


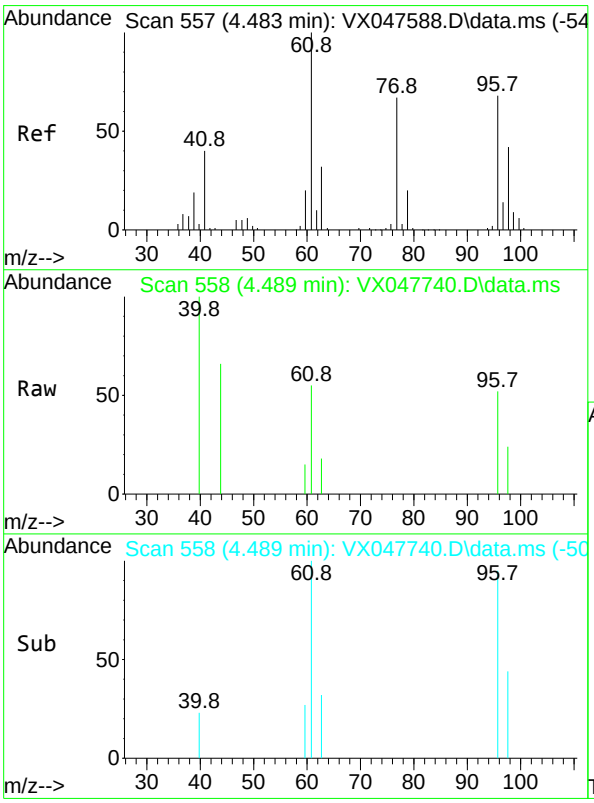
#16
Acetone
Concen: 1.364 ug/l
RT: 2.380 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20250912

Tgt Ion: 43 Resp: 1247

Ion	Ratio	Lower	Upper
43	100		
58	27.8	23.4	35.0

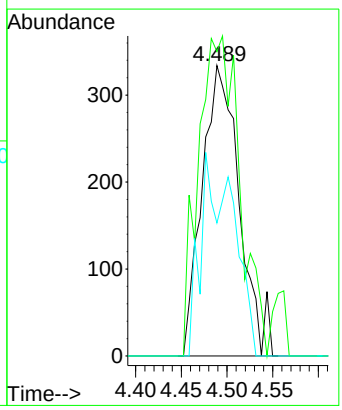


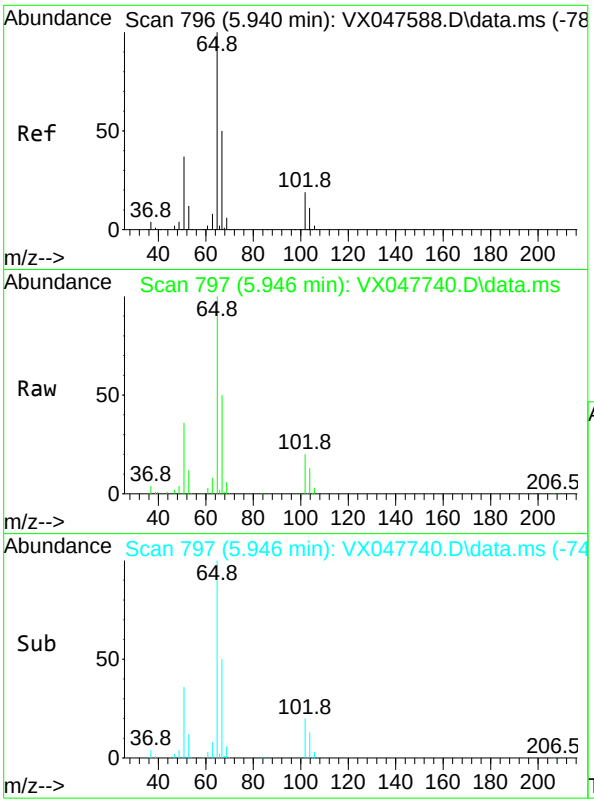


#27
cis-1,2-Dichloroethene
Concen: 0.456 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Tgt Ion: 96 Resp: 943

Ion	Ratio	Lower	Upper
96	100		
61	122.8	0.0	303.2
98	29.9	0.0	127.8



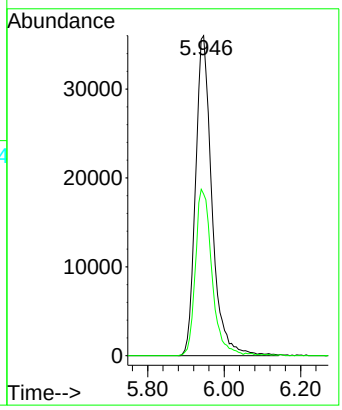


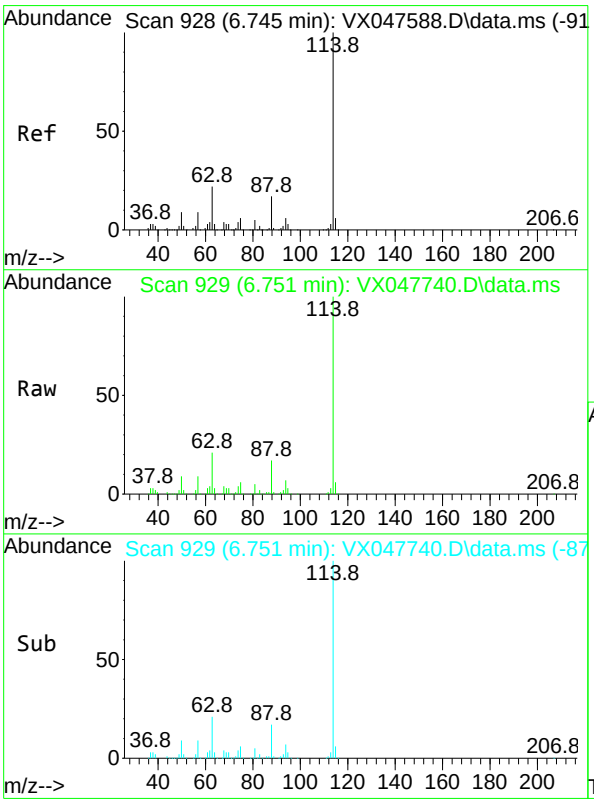
#33
1,2-Dichloroethane-d4
Concen: 50.909 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20250912

Tgt Ion: 65 Resp: 107026

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0

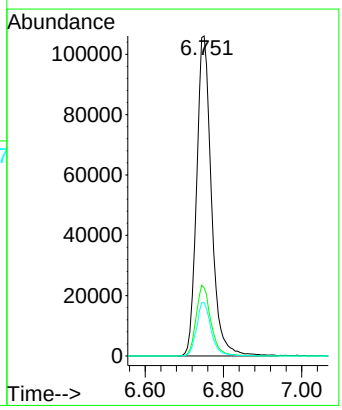


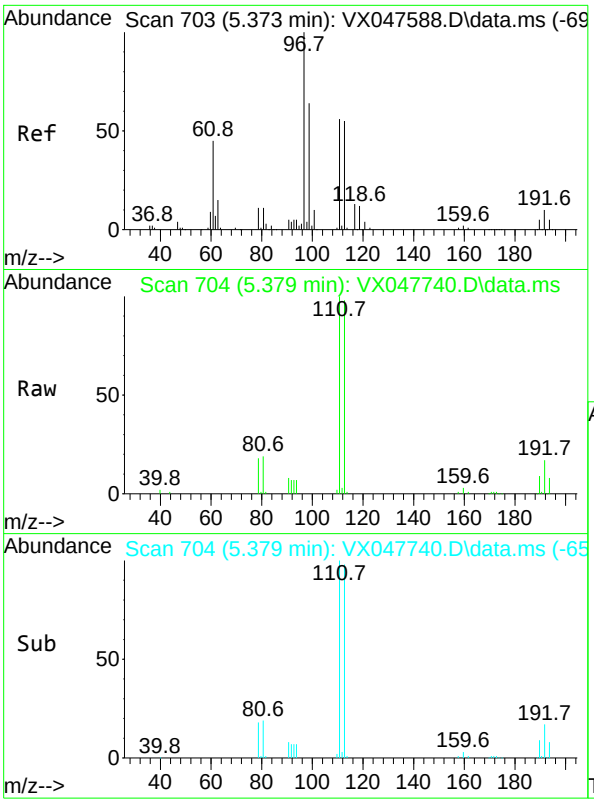


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Tgt Ion:114 Resp: 279533

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.0
88	16.7	0.0	34.2



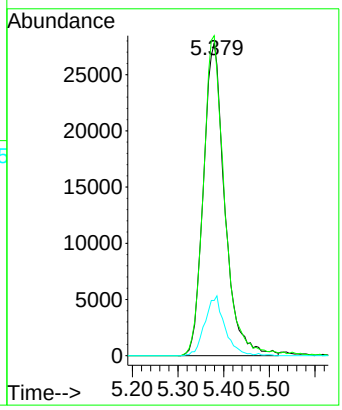


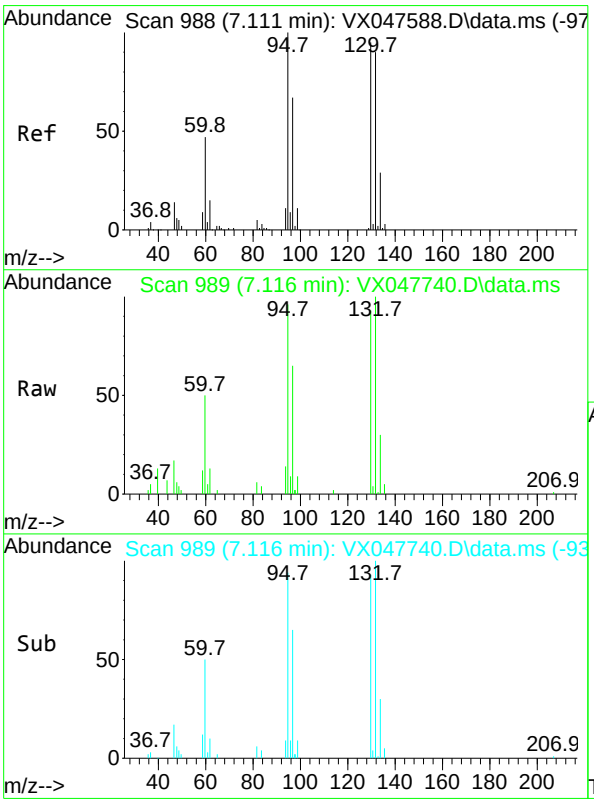
#35
Dibromofluoromethane
Concen: 48.108 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20250912

Tgt Ion:113 Resp: 90188

Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.9	121.3
192	17.8	14.2	21.4

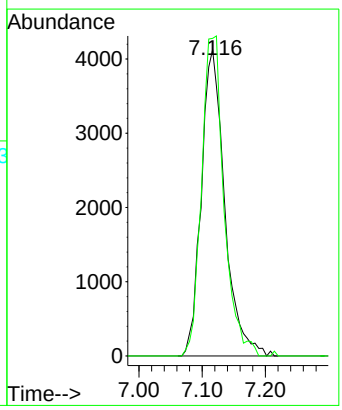


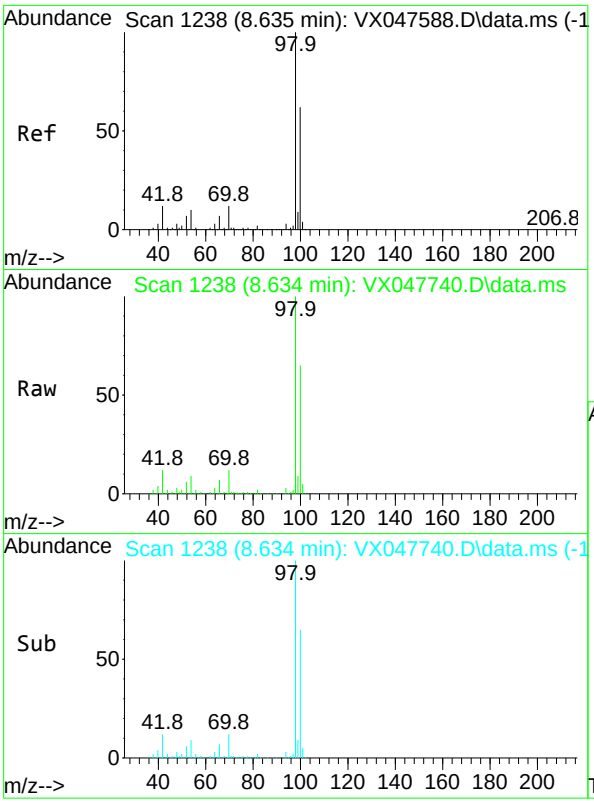


#44
Trichloroethene
Concen: 5.285 ug/l
RT: 7.116 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Tgt Ion:130 Resp: 10630

Ion	Ratio	Lower	Upper
130	100		
95	103.7	0.0	210.8



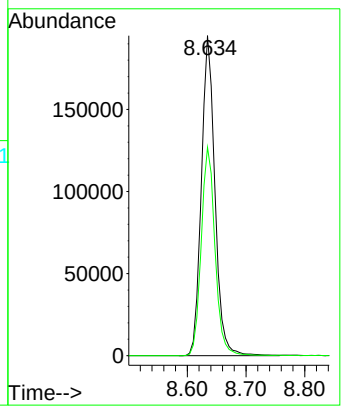


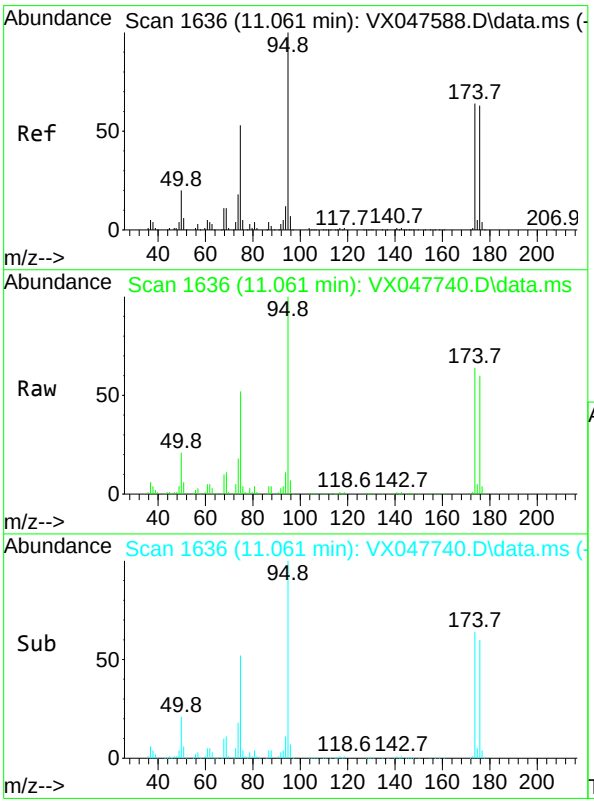
#50
Toluene-d8
Concen: 48.215 ug/l
RT: 8.634 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20250912

Tgt Ion: 98 Resp: 312762

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.0	79.4

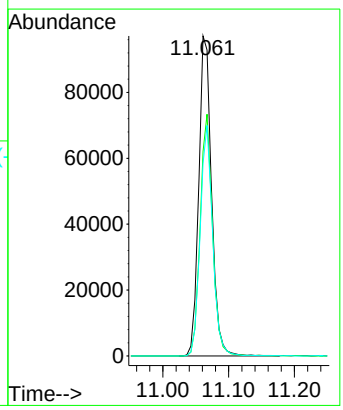


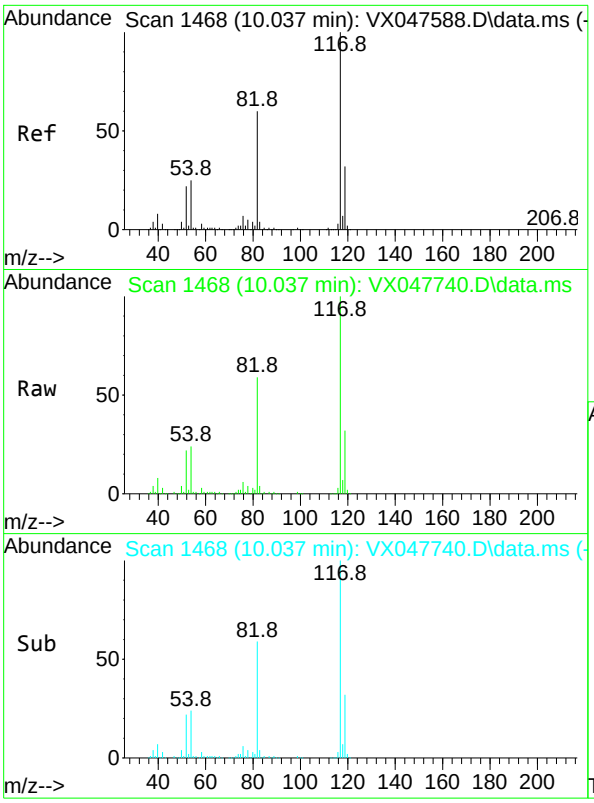


#62
4-Bromofluorobenzene
Concen: 53.268 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Tgt Ion: 95 Resp: 131138

Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	141.6
176	70.3	0.0	138.4



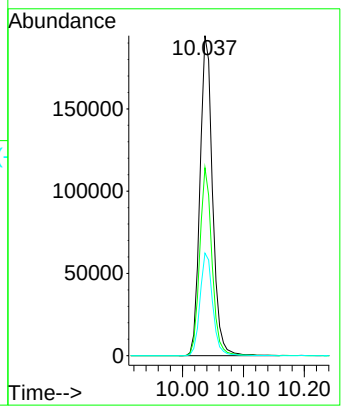


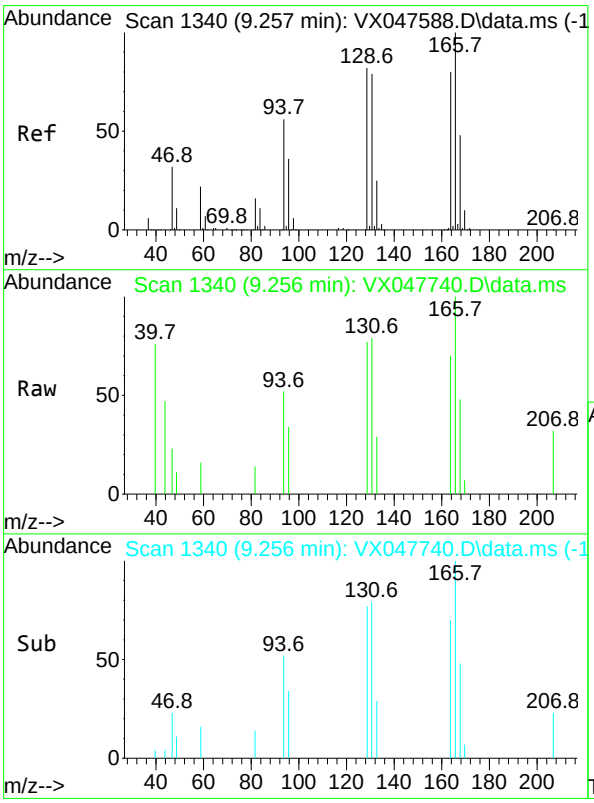
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20250912

Tgt Ion:117 Resp: 278696

Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.8	71.6
119	32.1	25.2	37.8

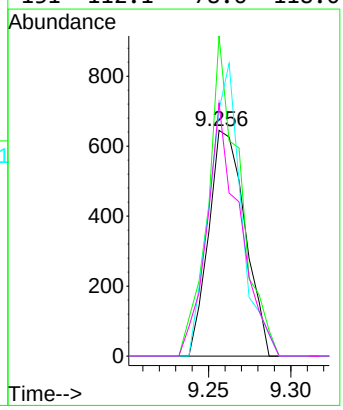


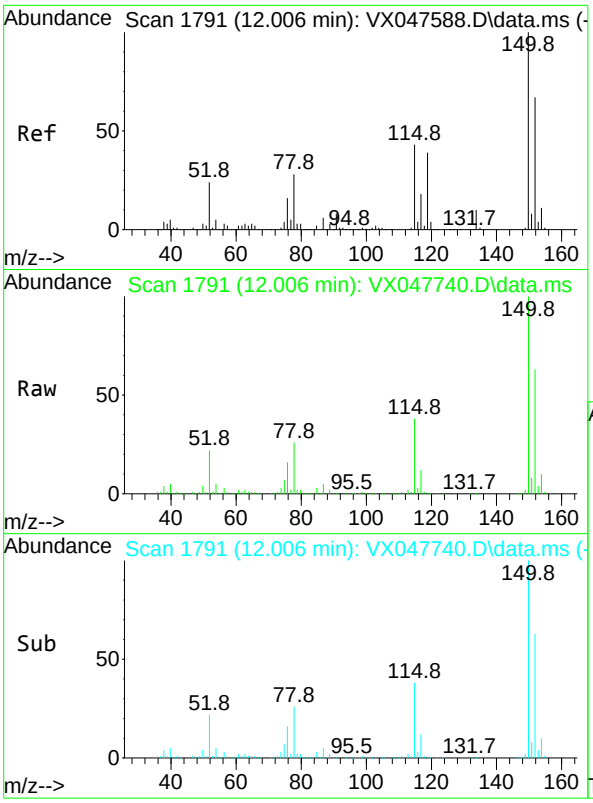


#64
Tetrachloroethene
Concen: 0.545 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Tgt Ion:164 Resp: 990

Ion	Ratio	Lower	Upper
164	100		
166	141.9	100.2	150.2
129	109.0	81.8	122.6
131	112.1	78.6	118.0



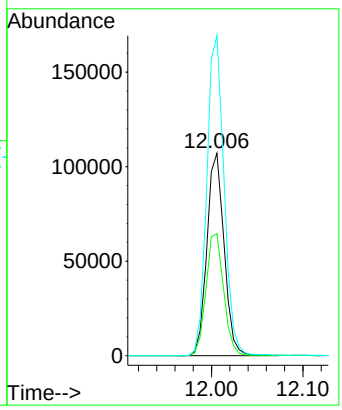


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047740.D
Acq: 23 Sep 2025 17:36

Instrument :
MSVOA_X
ClientSampleId :
RE134D1-20250912

Tgt Ion:152 Resp: 139922

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.9	134.5
150	158.6	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D4-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-23	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047741.D	1	09/23/25 17:57	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	430	E	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	2.50		0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	36.7		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.30		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D4-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-23	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047741.D	1	09/23/25 17:57	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	30.2		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.0		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	48.3		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.0		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	140000	5.538				
540-36-3	1,4-Difluorobenzene	291000	6.751				
3114-55-4	Chlorobenzene-d5	290000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	145000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D4-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-23	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047741.D	1	09/23/25 17:57	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047741.D
Acq On : 23 Sep 2025 17:57
Operator : JC/MD
Sample : Q3097-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912

Quant Time: Sep 24 01:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

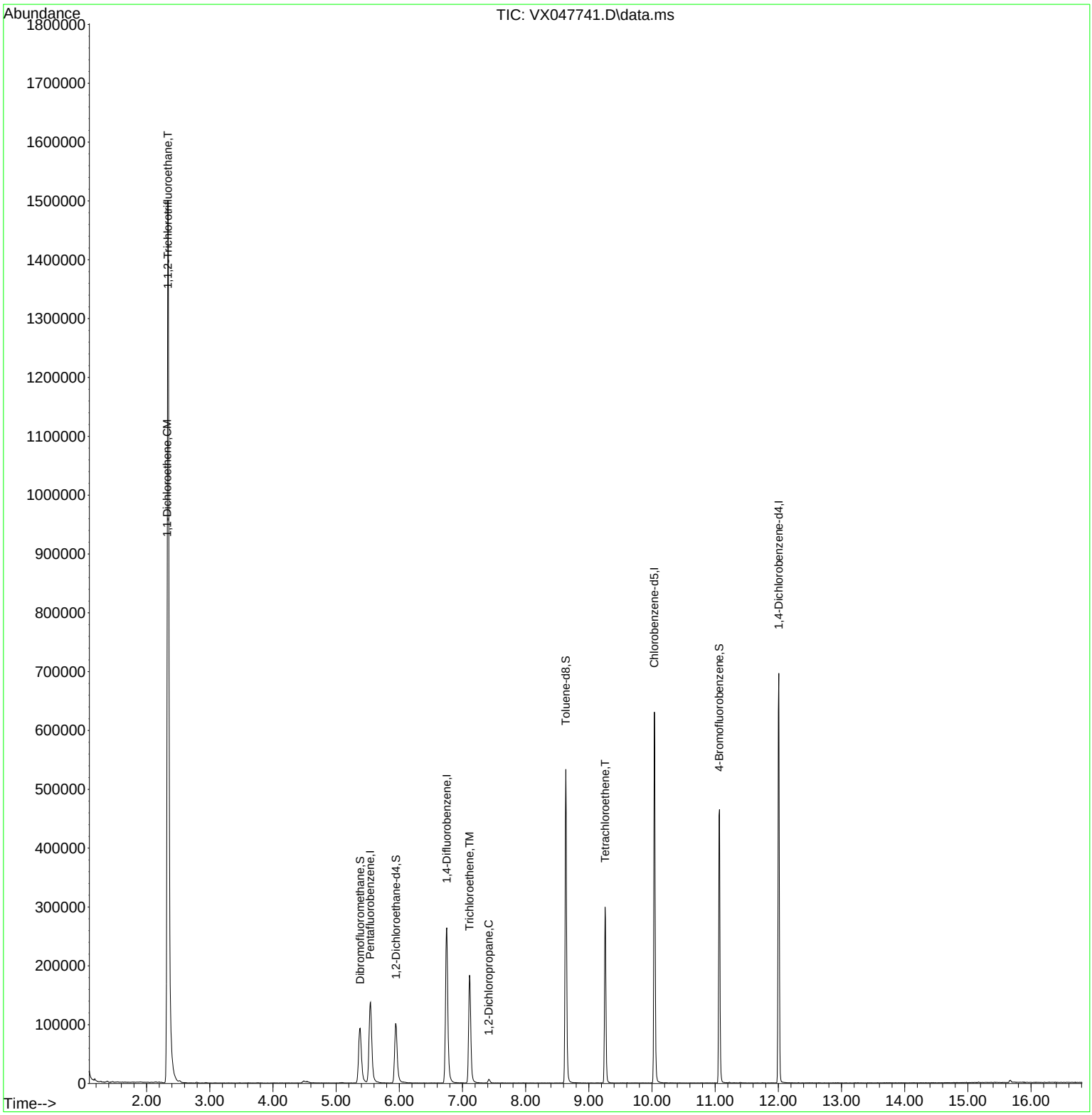
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	139747	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	290603	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	290148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	144658	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	109066	49.031	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.060%			
35) Dibromofluoromethane	5.379	113	93054	47.746	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.500%			
50) Toluene-d8	8.635	98	325685	48.294	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.580%			
62) 4-Bromofluorobenzene	11.061	95	138234	54.011	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.020%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	697558	431.559	ug/l	99
12) 1,1-Dichloroethene	2.325	96	4100	2.469	ug/l #	79
44) Trichloroethene	7.111	130	76703	36.679	ug/l	97
45) 1,2-Dichloropropane	7.415	63	2858	1.290	ug/l #	88
64) Tetrachloroethene	9.257	164	57189	30.235	ug/l	98

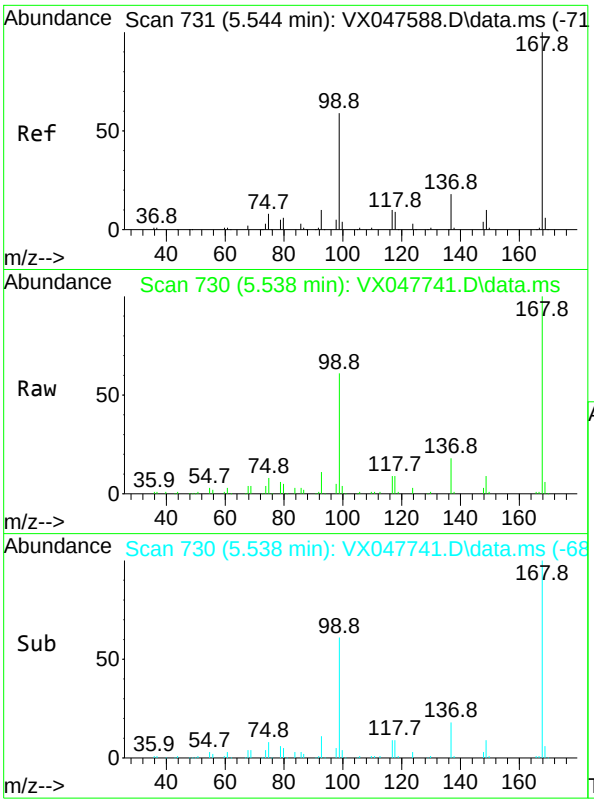
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047741.D
Acq On : 23 Sep 2025 17:57
Operator : JC/MD
Sample : Q3097-23
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912

Quant Time: Sep 24 01:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



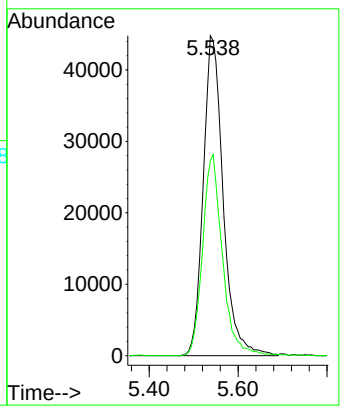


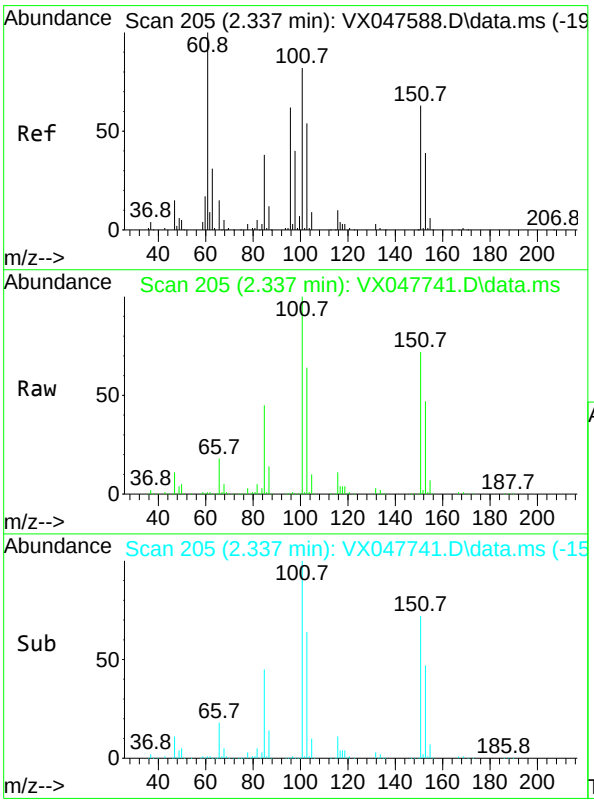
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912

Tgt Ion:168 Resp: 139747

Ion	Ratio	Lower	Upper
168	100		
99	60.9	48.8	73.2

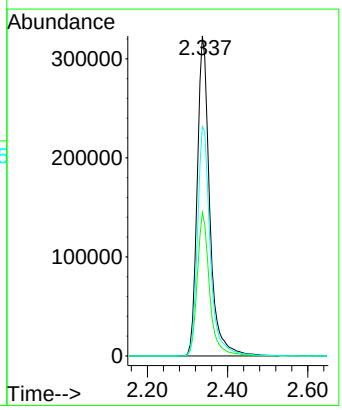


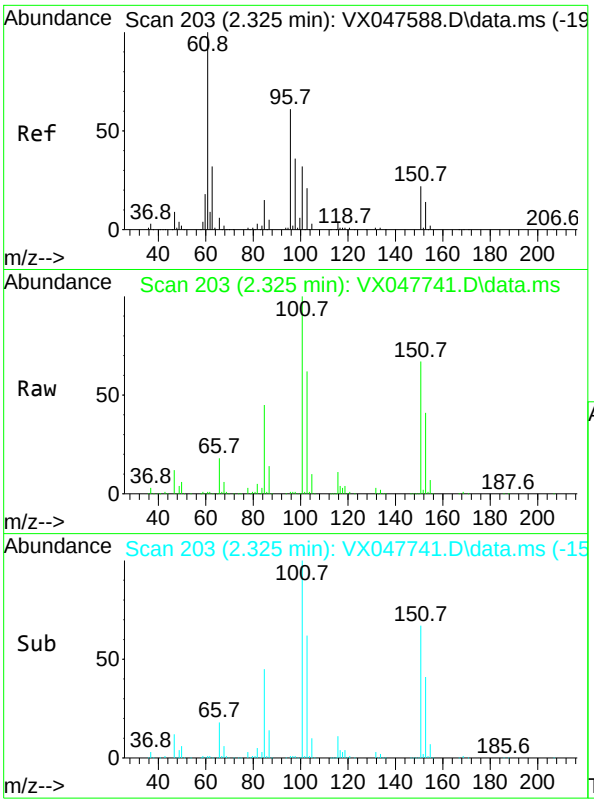


#9
1,1,2-Trichlorotrifluoroethane
Concen: 431.559 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Tgt Ion:101 Resp: 697558

Ion	Ratio	Lower	Upper
101	100		
85	44.3	35.5	53.3
151	73.3	59.4	89.0



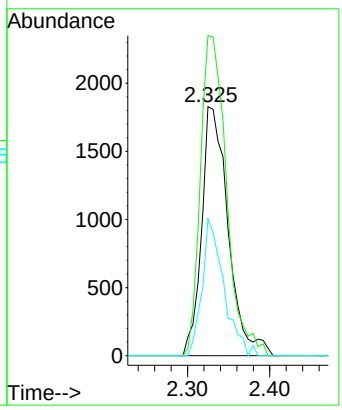


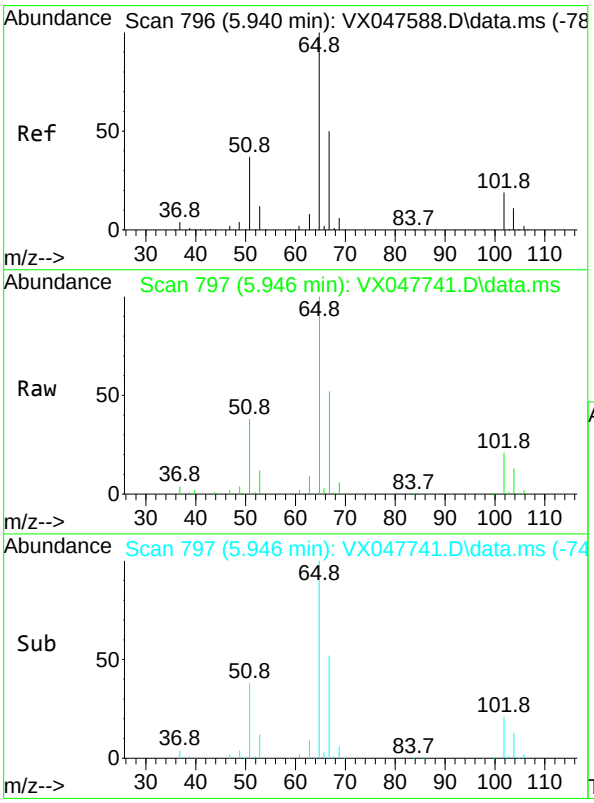
#12
1,1-Dichloroethene
Concen: 2.469 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912

Tgt Ion: 96 Resp: 4100

Ion	Ratio	Lower	Upper
96	100		
61	128.5	131.0	196.6#
98	54.9	47.7	71.5

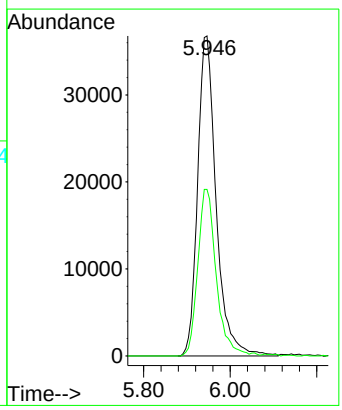


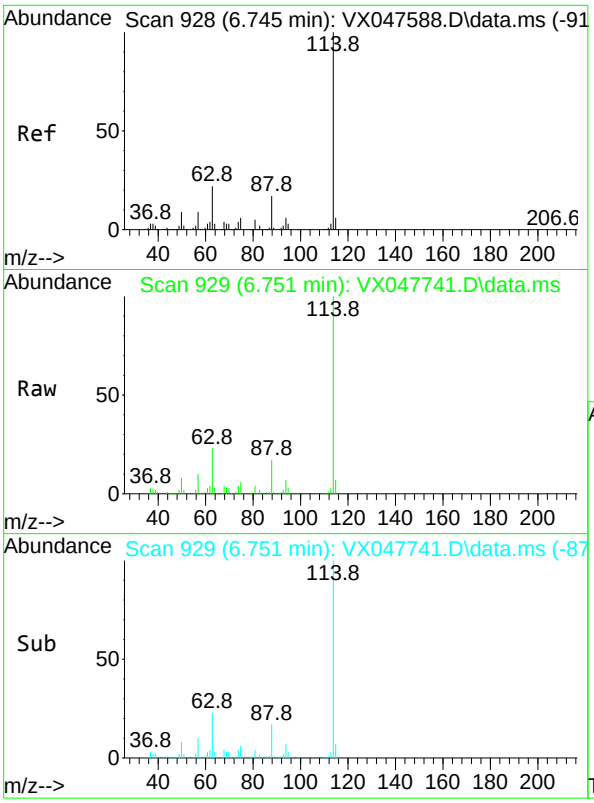


#33
1,2-Dichloroethane-d4
Concen: 49.031 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Tgt Ion: 65 Resp: 109066

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	103.0



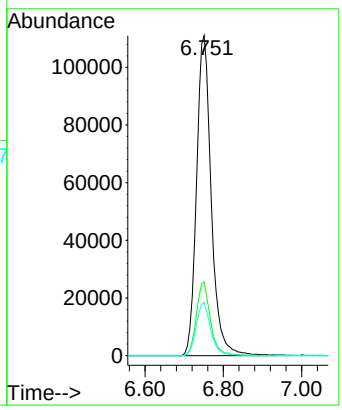


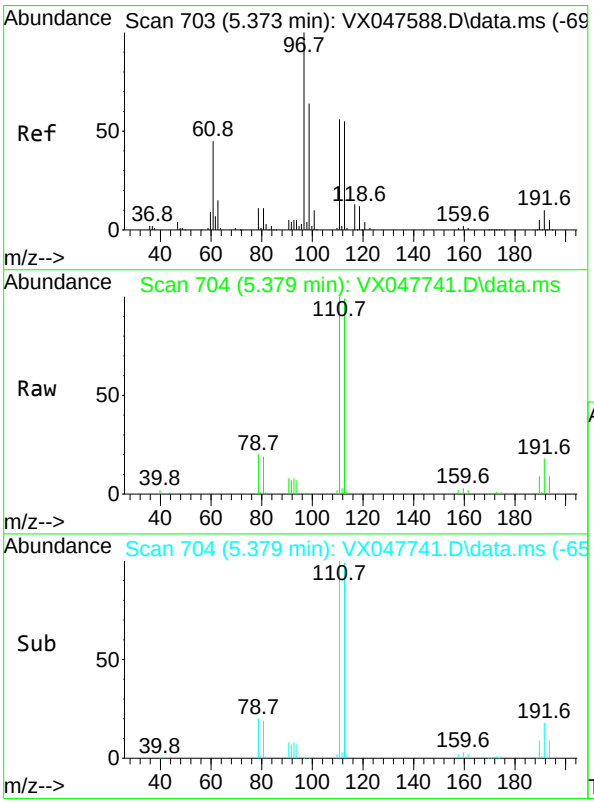
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912

Tgt Ion:114 Resp: 290603

Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	44.0
88	16.6	0.0	34.2

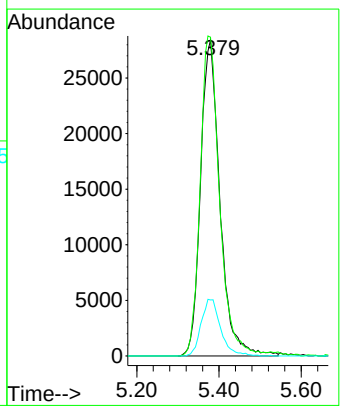


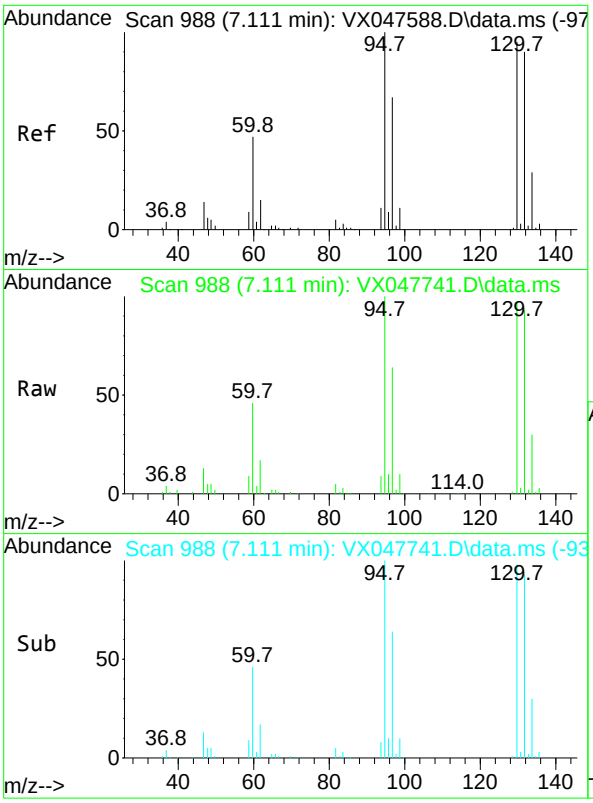


#35
Dibromofluoromethane
Concen: 47.746 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Tgt Ion:113 Resp: 93054

Ion	Ratio	Lower	Upper
113	100		
111	101.2	80.9	121.3
192	18.0	14.2	21.4



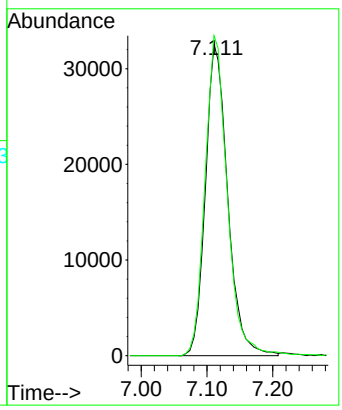


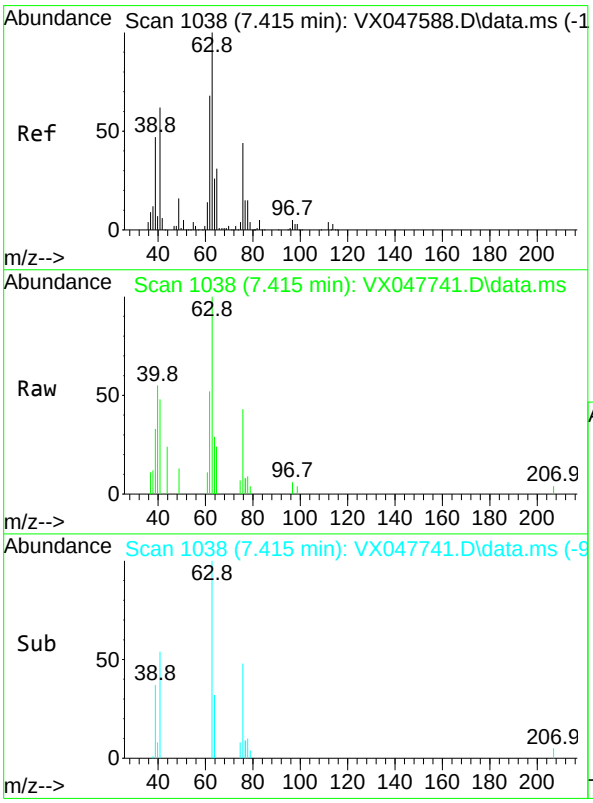
#44
Trichloroethene
Concen: 36.679 ug/l
RT: 7.111 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912

Tgt Ion:130 Resp: 76703

Ion	Ratio	Lower	Upper
130	100		
95	102.7	0.0	210.8

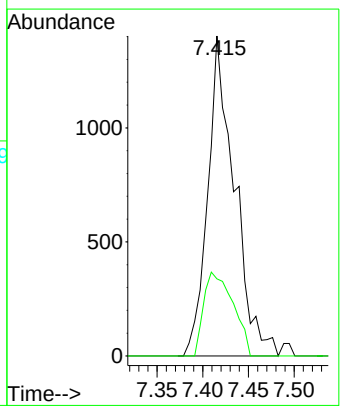


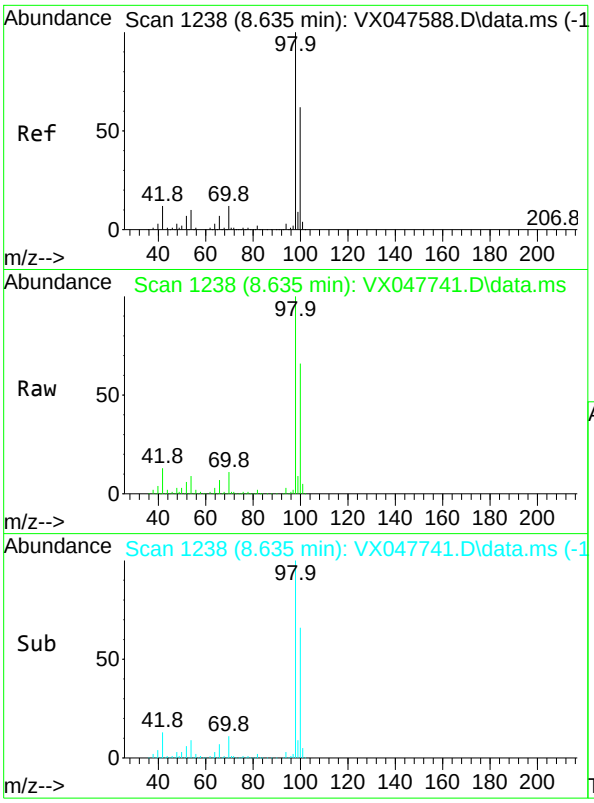


#45
1,2-Dichloropropane
Concen: 1.290 ug/l
RT: 7.415 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Tgt Ion: 63 Resp: 2858

Ion	Ratio	Lower	Upper
63	100		
65	24.1	24.7	37.1#



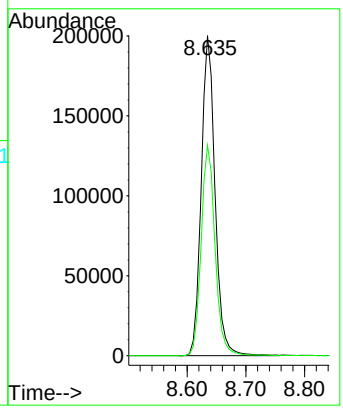


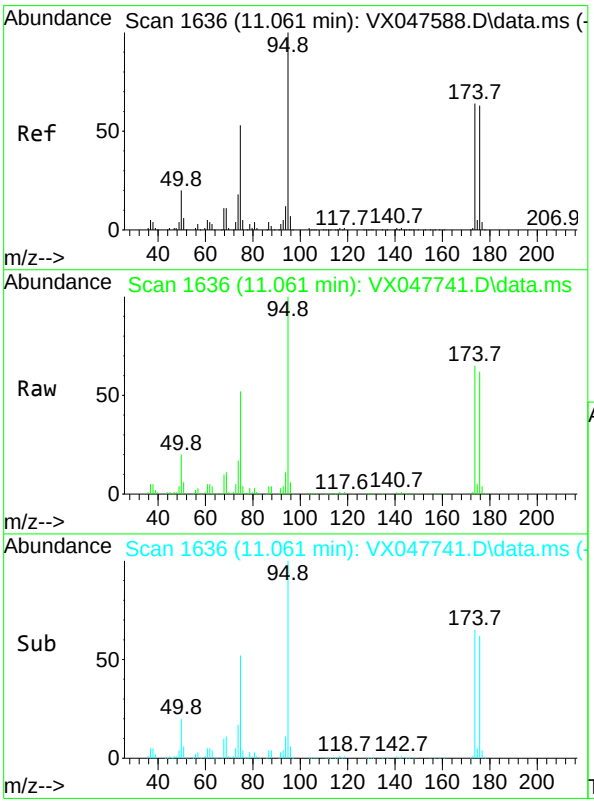
#50
Toluene-d8
Concen: 48.294 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912

Tgt Ion: 98 Resp: 325685

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.4

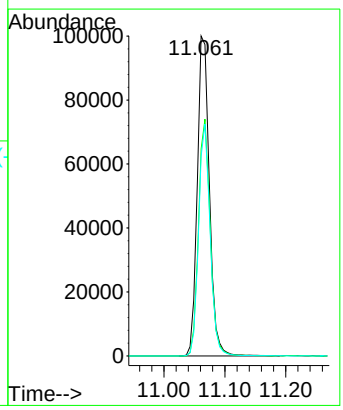


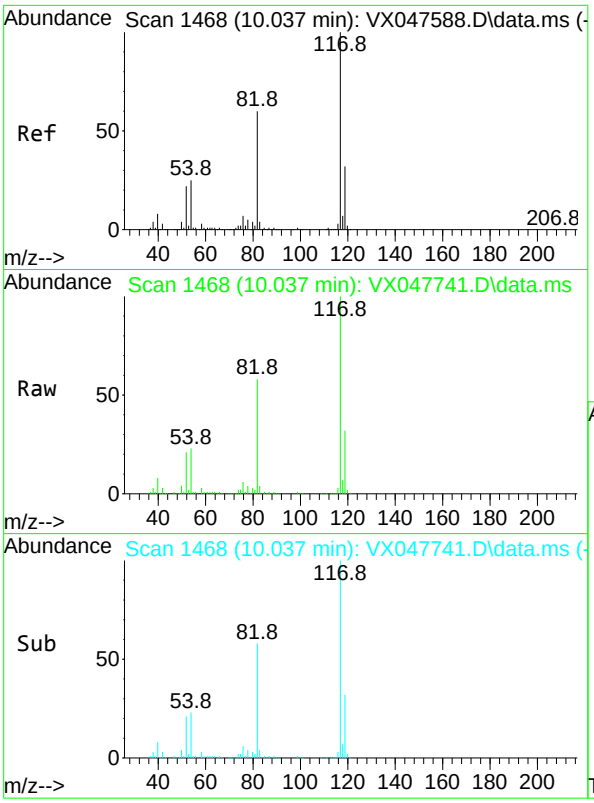


#62
4-Bromofluorobenzene
Concen: 54.011 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Tgt Ion: 95 Resp: 138234

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	68.7	0.0	138.4



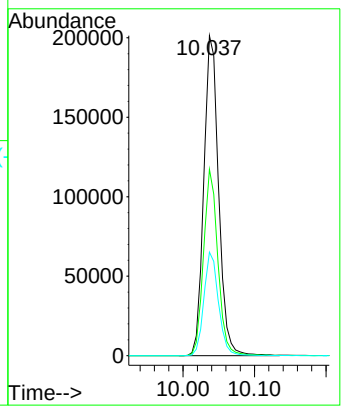


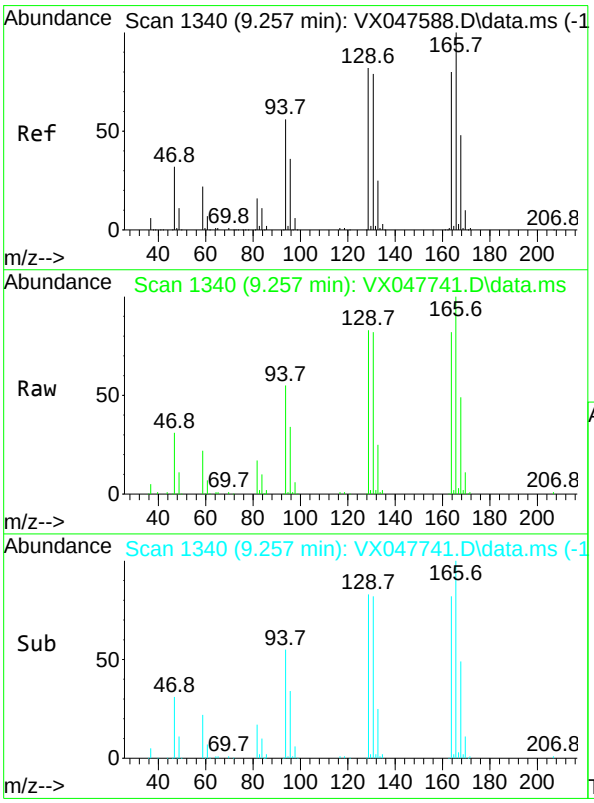
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912

Tgt Ion:117 Resp: 290148

Ion	Ratio	Lower	Upper
117	100		
82	58.2	47.8	71.6
119	32.4	25.2	37.8

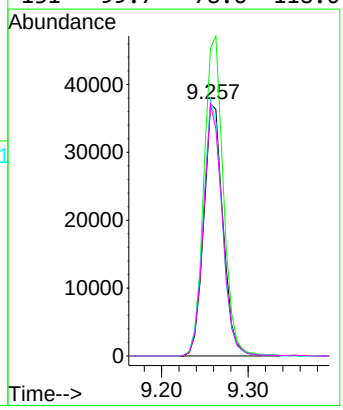


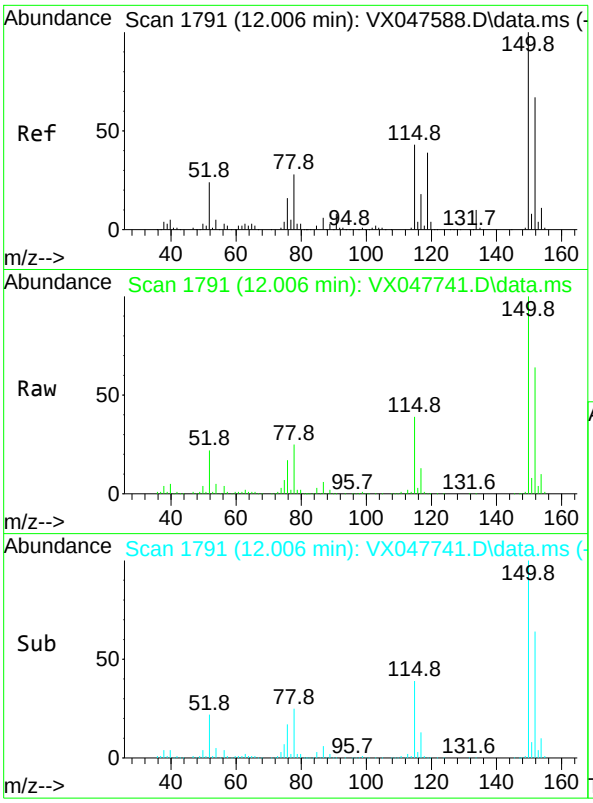


#64
Tetrachloroethene
Concen: 30.235 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Tgt Ion:164 Resp: 57189

Ion	Ratio	Lower	Upper
164	100		
166	122.0	100.2	150.2
129	101.9	81.8	122.6
131	99.7	78.6	118.0



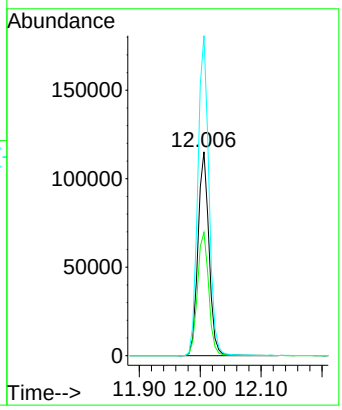


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047741.D
Acq: 23 Sep 2025 17:57

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912

Tgt Ion:152 Resp: 144658

Ion	Ratio	Lower	Upper
152	100		
115	61.6	44.9	134.5
150	157.4	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D4-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-23DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047777.D	10	09/24/25 15:44	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	5.00	UD	2.20	5.00	10.0	ug/L
74-87-3	Chloromethane	5.00	UD	3.20	5.00	10.0	ug/L
75-01-4	Vinyl Chloride	7.50	UD	2.60	7.50	10.0	ug/L
74-83-9	Bromomethane	37.5	UD	14.4	37.5	50.0	ug/L
75-00-3	Chloroethane	7.50	UD	4.70	7.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	5.00	UD	3.30	5.00	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	440	D	2.50	5.00	10.0	ug/L
75-35-4	1,1-Dichloroethene	7.50	UD	2.30	7.50	10.0	ug/L
67-64-1	Acetone	37.5	UD	15.1	37.5	50.0	ug/L
75-15-0	Carbon Disulfide	7.50	UD	2.10	7.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	UD	1.60	5.00	10.0	ug/L
79-20-9	Methyl Acetate	7.50	UD	2.70	7.50	10.0	ug/L
75-09-2	Methylene Chloride	5.00	UD	2.80	5.00	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	5.00	UD	2.30	5.00	10.0	ug/L
75-34-3	1,1-Dichloroethane	5.00	UD	2.30	5.00	10.0	ug/L
110-82-7	Cyclohexane	25.0	UD	14.5	25.0	50.0	ug/L
78-93-3	2-Butanone	25.0	UD	9.80	25.0	50.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	2.50	5.00	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	7.50	UD	1.90	7.50	10.0	ug/L
74-97-5	Bromochloromethane	5.00	UD	2.20	5.00	10.0	ug/L
67-66-3	Chloroform	5.00	UD	2.50	5.00	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	UD	2.00	5.00	10.0	ug/L
108-87-2	Methylcyclohexane	5.00	UD	1.60	5.00	10.0	ug/L
71-43-2	Benzene	5.00	UD	1.50	5.00	10.0	ug/L
107-06-2	1,2-Dichloroethane	5.00	UD	2.20	5.00	10.0	ug/L
79-01-6	Trichloroethene	40.4	D	0.93	7.50	10.0	ug/L
78-87-5	1,2-Dichloropropane	5.00	UD	2.00	5.00	10.0	ug/L
75-27-4	Bromodichloromethane	5.00	UD	2.20	5.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	UD	6.80	25.0	50.0	ug/L
108-88-3	Toluene	5.00	UD	1.40	5.00	10.0	ug/L

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D4-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-23DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047777.D	10	09/24/25 15:44	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	5.00	UD	1.70	5.00	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	UD	1.60	5.00	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	5.00	UD	2.10	5.00	10.0	ug/L
591-78-6	2-Hexanone	25.0	UD	8.90	25.0	50.0	ug/L
124-48-1	Dibromochloromethane	5.00	UD	1.80	5.00	10.0	ug/L
106-93-4	1,2-Dibromoethane	5.00	UD	1.50	5.00	10.0	ug/L
127-18-4	Tetrachloroethene	30.1	D	2.30	5.00	10.0	ug/L
108-90-7	Chlorobenzene	5.00	UD	1.20	5.00	10.0	ug/L
100-41-4	Ethyl Benzene	5.00	UD	1.30	5.00	10.0	ug/L
179601-23-1	m/p-Xylenes	10.0	UD	2.40	10.0	20.0	ug/L
95-47-6	o-Xylene	5.00	UD	1.20	5.00	10.0	ug/L
100-42-5	Styrene	5.00	UD	1.50	5.00	10.0	ug/L
75-25-2	Bromoform	5.00	UD	1.90	5.00	10.0	ug/L
98-82-8	Isopropylbenzene	5.00	UD	1.20	5.00	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	UD	2.60	5.00	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	UD	1.60	5.00	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	UD	1.90	5.00	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	UD	1.60	5.00	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	7.50	UD	5.30	7.50	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.00	UD	2.00	5.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.50	UD	2.00	7.50	10.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.7		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	48.0		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.5		85 - 114		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	134000	5.544				
540-36-3	1,4-Difluorobenzene	286000	6.751				
3114-55-4	Chlorobenzene-d5	291000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	149000	12.006				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D4-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-23DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047777.D	10	09/24/25 15:44	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047777.D
Acq On : 24 Sep 2025 15:44
Operator : JC/MD
Sample : Q3097-23DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912DL

Quant Time: Sep 25 01:17:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

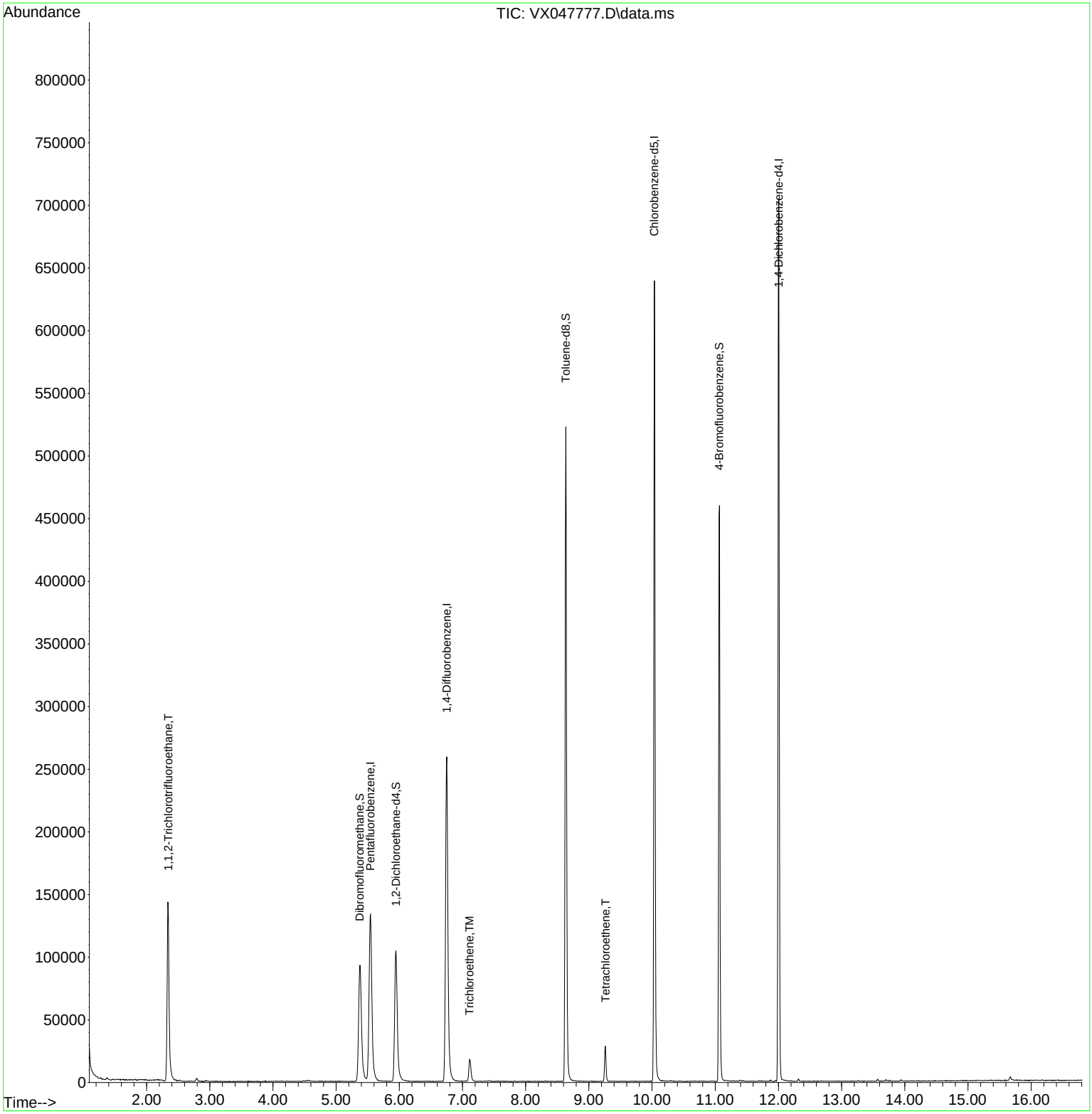
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	133853	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	286287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	290978	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	148581	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	112208	52.665	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.320%			
35) Dibromofluoromethane	5.373	113	91965	47.899	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.800%			
50) Toluene-d8	8.634	98	319132	48.036	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.080%			
62) 4-Bromofluorobenzene	11.061	95	137327	54.466	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.940%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.343	101	67631	43.684	ug/l	98
44) Trichloroethene	7.110	130	8324	4.041	ug/l	92
64) Tetrachloroethene	9.262	164	5711	3.011	ug/l	92

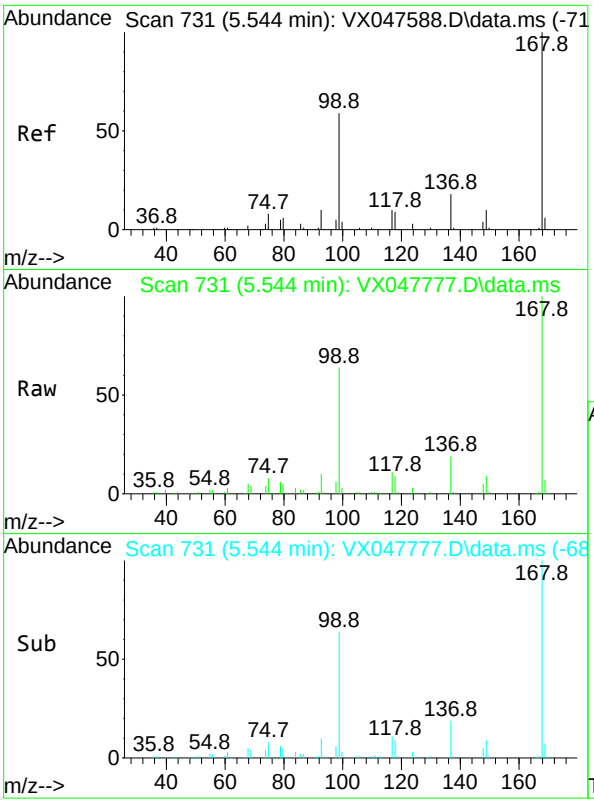
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047777.D
Acq On : 24 Sep 2025 15:44
Operator : JC/MD
Sample : Q3097-23DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912DL

Quant Time: Sep 25 01:17:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



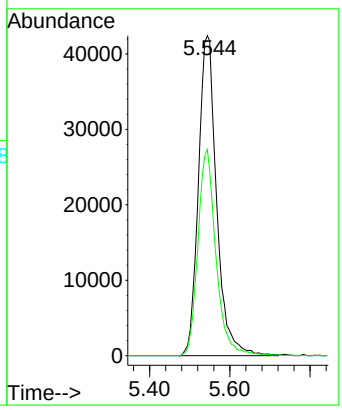


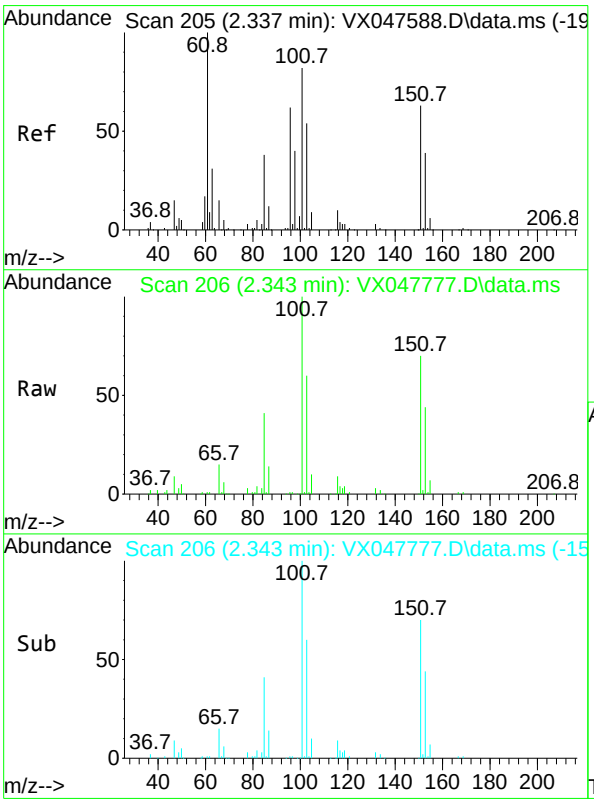
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912DL

Tgt Ion:168 Resp: 133853

Ion	Ratio	Lower	Upper
168	100		
99	64.5	48.8	73.2

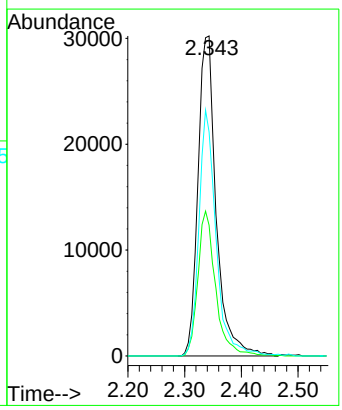


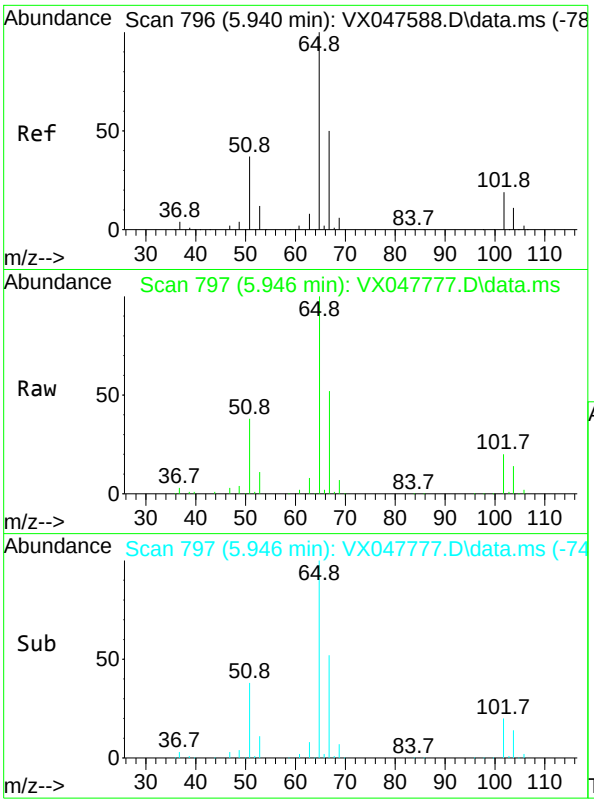


#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.684 ug/l
RT: 2.343 min Scan# 206
Delta R.T. 0.006 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Tgt Ion:101 Resp: 67631

Ion	Ratio	Lower	Upper
101	100		
85	44.0	35.5	53.3
151	72.3	59.4	89.0



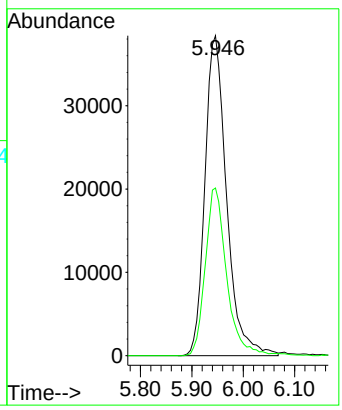


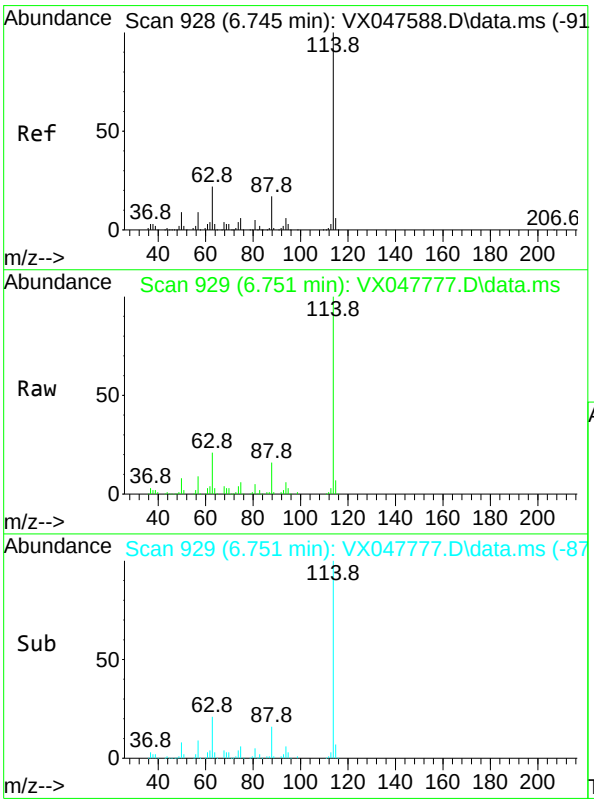
#33
1,2-Dichloroethane-d4
Concen: 52.665 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912DL

Tgt Ion: 65 Resp: 112208

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	103.0

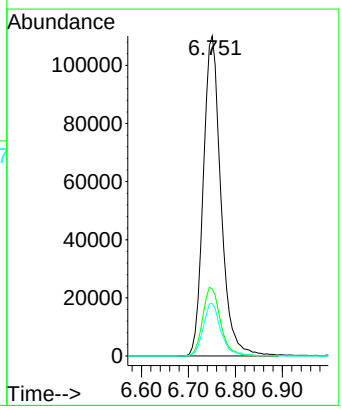


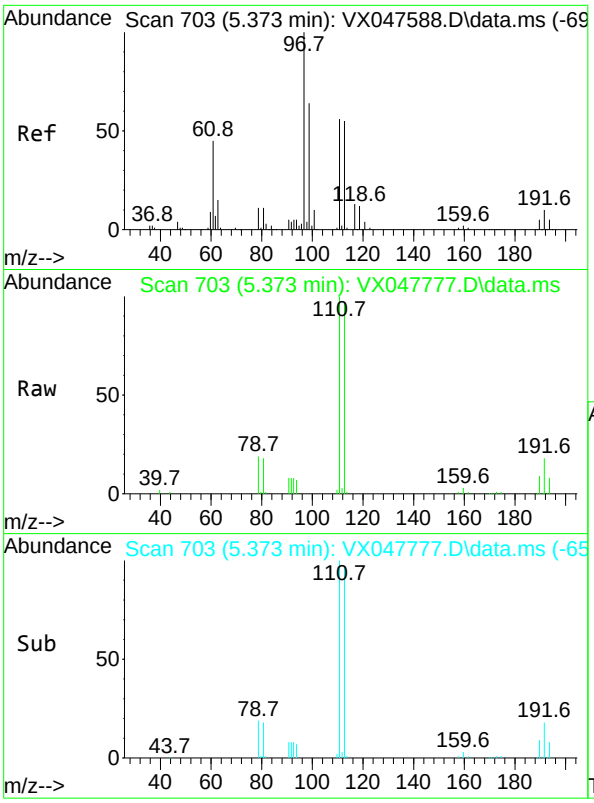


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Tgt Ion:114 Resp: 286287

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	44.0
88	16.4	0.0	34.2



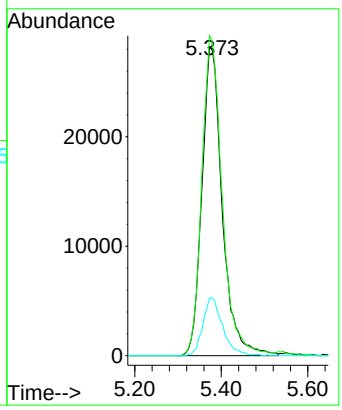


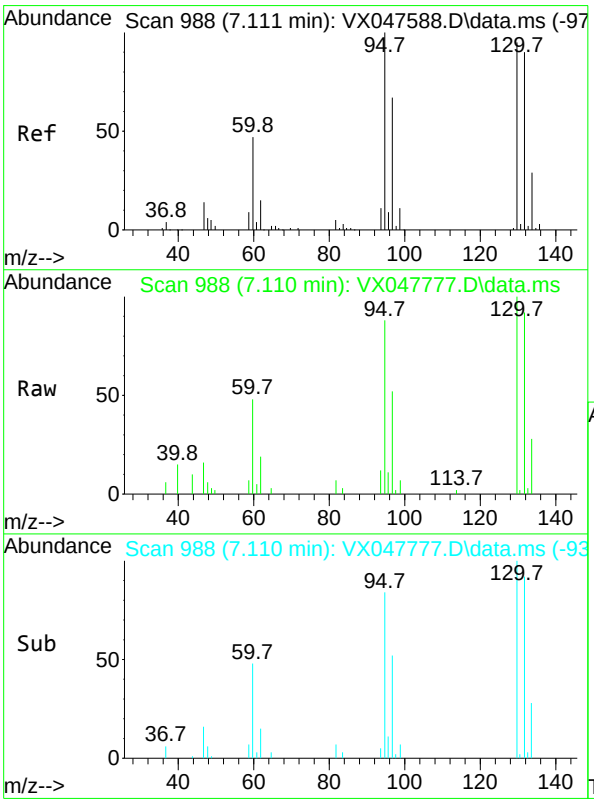
#35
Dibromofluoromethane
Concen: 47.899 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912DL

Tgt Ion:113 Resp: 91965

Ion	Ratio	Lower	Upper
113	100		
111	103.9	80.9	121.3
192	18.2	14.2	21.4

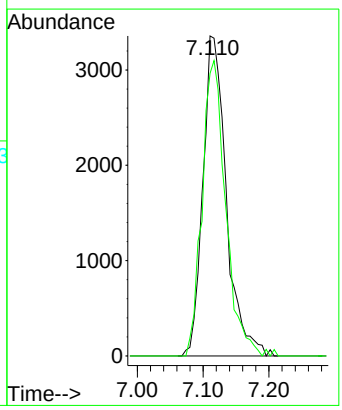


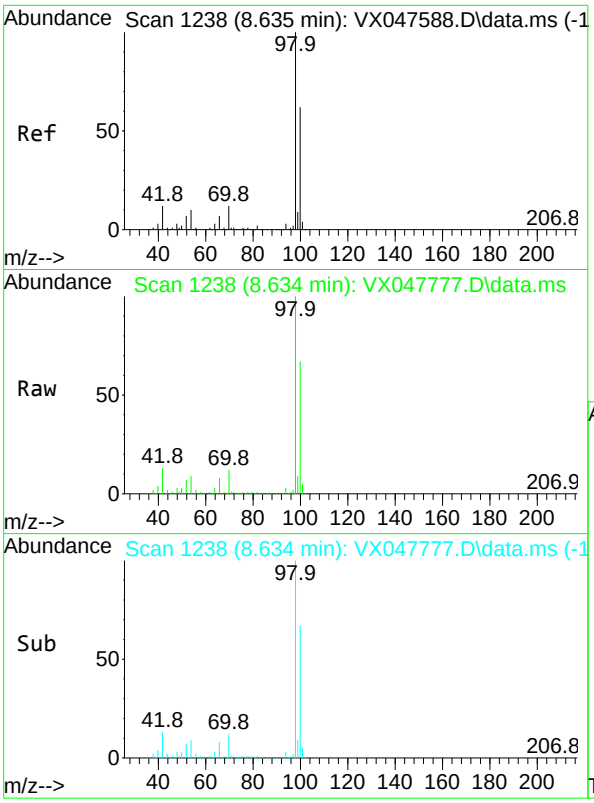


#44
Trichloroethene
Concen: 4.041 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Tgt Ion:130 Resp: 8324

Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	210.8



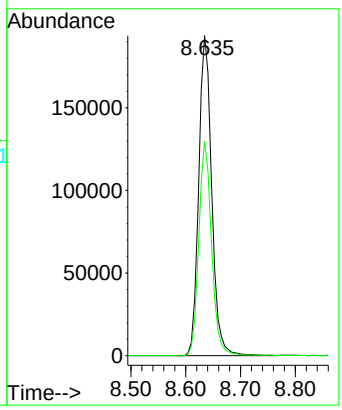


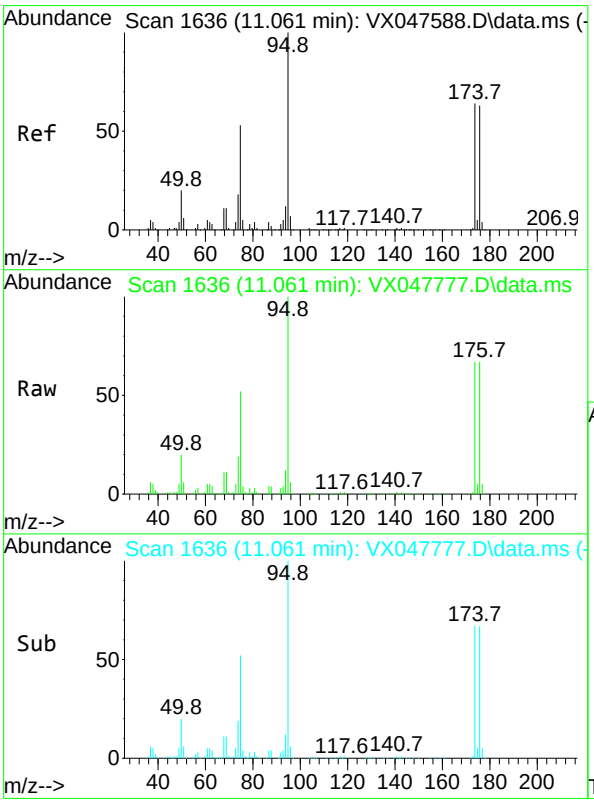
#50
Toluene-d8
Concen: 48.036 ug/l
RT: 8.634 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912DL

Tgt Ion: 98 Resp: 319132

Ion	Ratio	Lower	Upper
98	100		
100	66.0	53.0	79.4

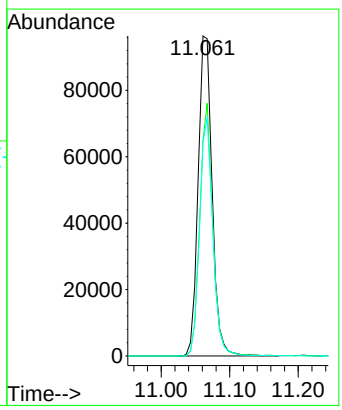


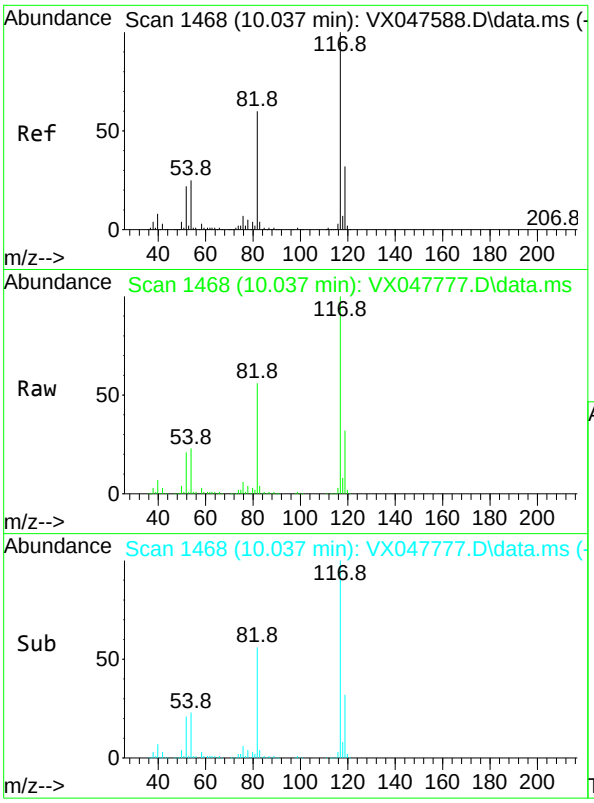


#62
4-Bromofluorobenzene
Concen: 54.466 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Tgt Ion: 95 Resp: 137327

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	141.6
176	70.4	0.0	138.4



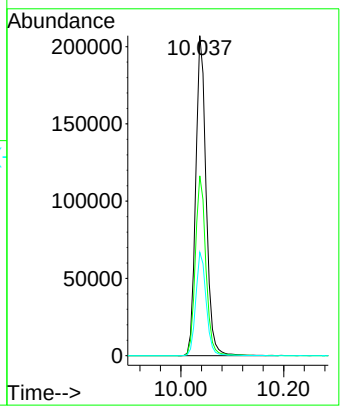


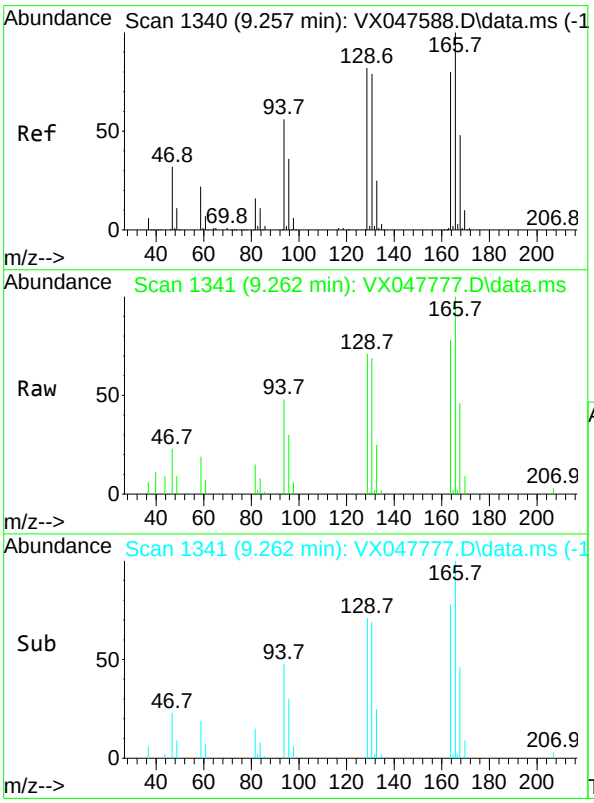
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912DL

Tgt Ion:117 Resp: 290978

Ion	Ratio	Lower	Upper
117	100		
82	56.2	47.8	71.6
119	32.3	25.2	37.8

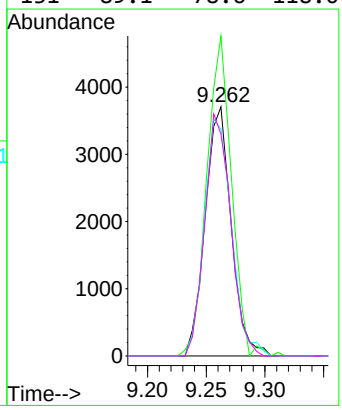


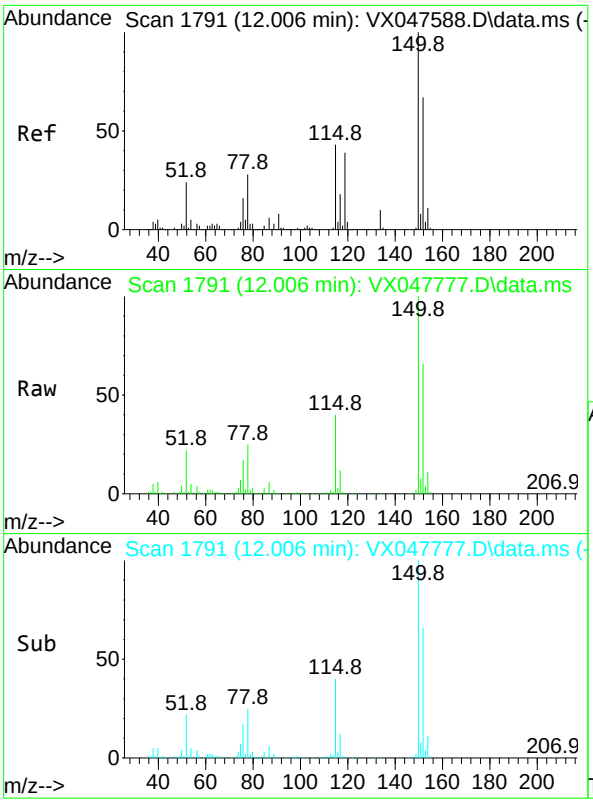


#64
Tetrachloroethene
Concen: 3.011 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Tgt Ion:164 Resp: 5711

Ion	Ratio	Lower	Upper
164	100		
166	131.6	100.2	150.2
129	91.1	81.8	122.6
131	89.1	78.6	118.0



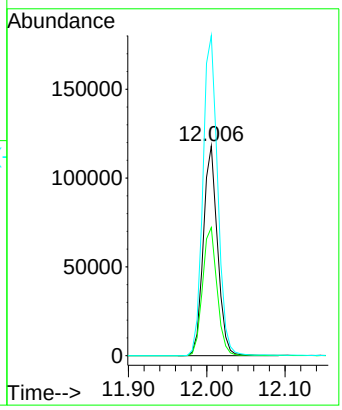


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047777.D
Acq: 24 Sep 2025 15:44

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20250912DL

Tgt Ion:152 Resp: 148581

Ion	Ratio	Lower	Upper
152	100		
115	62.4	44.9	134.5
150	158.4	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-24	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047742.D	1	09/23/25 18:18	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	38.9		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.33	J	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.29	J	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	3.30		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	98.1		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-24	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047742.D	1	09/23/25 18:18	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	45.6		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.5		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	48.5		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.2		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	145000	5.544				
540-36-3	1,4-Difluorobenzene	303000	6.751				
3114-55-4	Chlorobenzene-d5	304000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	155000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D2-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-24	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047742.D	1	09/23/25 18:18	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047742.D
Acq On : 23 Sep 2025 18:18
Operator : JC/MD
Sample : Q3097-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Quant Time: Sep 24 01:38:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

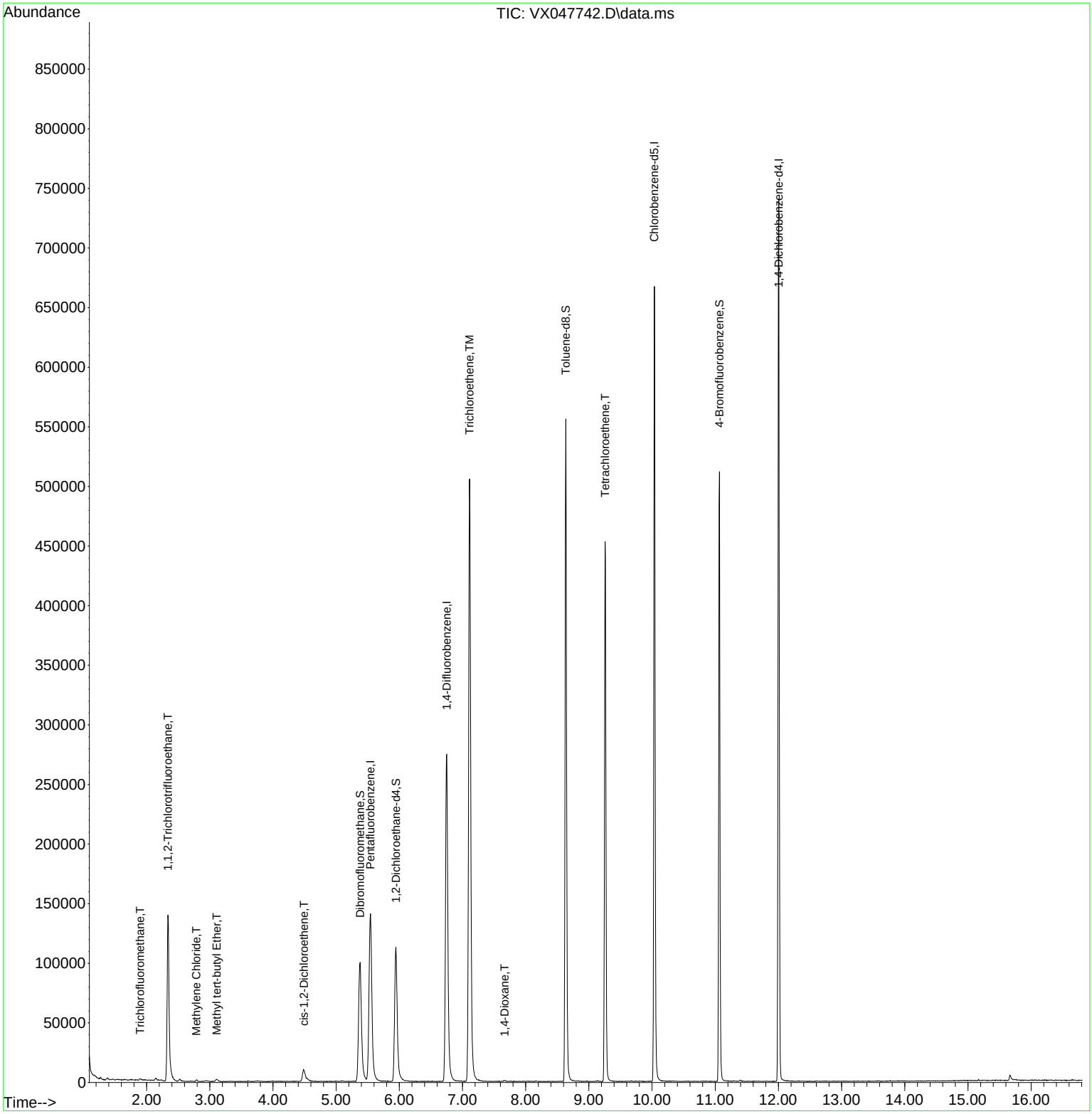
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	144829	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.751	114	302539	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	304106	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	155005	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.946	65	120988	52.482	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.960%				
35) Dibromofluoromethane	5.379	113	99412	48.996	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.000%				
50) Toluene-d8	8.635	98	340487	48.497	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 97.000%				
62) 4-Bromofluorobenzene	11.067	95	146947	55.150	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.300%				
Target Compounds							Qvalue
7) Trichlorofluoromethane	1.898	101	742	0.259	ug/l		90
9) 1,1,2-Trichlorotrifluo...	2.337	101	65221	38.934	ug/l		98
19) Methyl tert-butyl Ether	3.111	73	2090	0.333	ug/l		91
20) Methylene Chloride	2.788	84	607	0.286	ug/l	#	85
27) cis-1,2-Dichloroethene	4.489	96	7569	3.336	ug/l		84
44) Trichloroethene	7.110	130	213493	98.064	ug/l		96
49) 1,4-Dioxane	7.665	88	595	22.703	ug/l	#	80
64) Tetrachloroethene	9.256	164	90424	45.612	ug/l		97

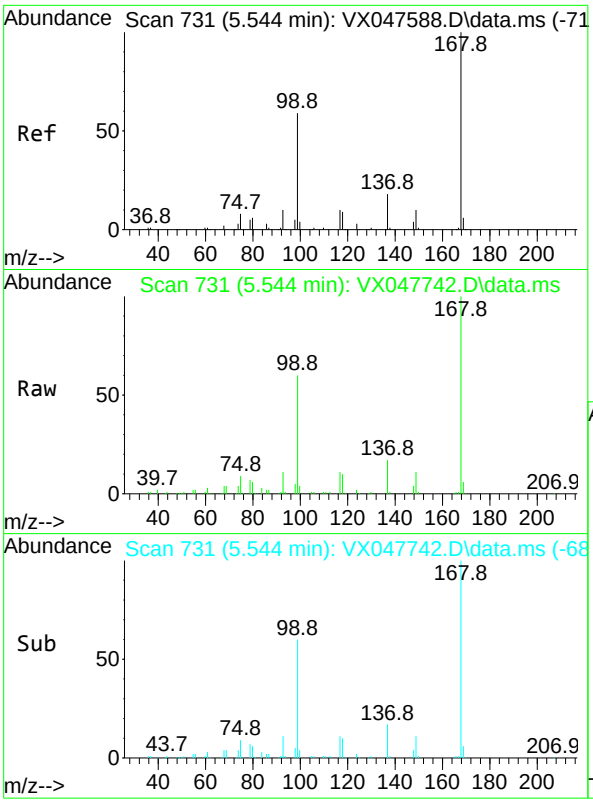
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047742.D
Acq On : 23 Sep 2025 18:18
Operator : JC/MD
Sample : Q3097-24
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Quant Time: Sep 24 01:38:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



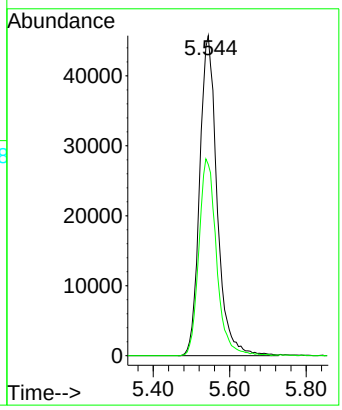


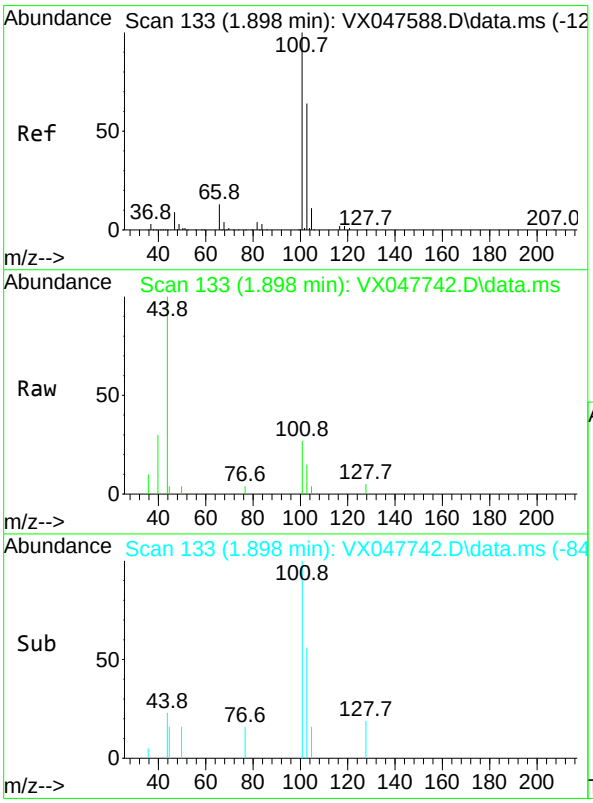
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Tgt Ion:168 Resp: 144829

Ion	Ratio	Lower	Upper
168	100		
99	59.7	48.8	73.2

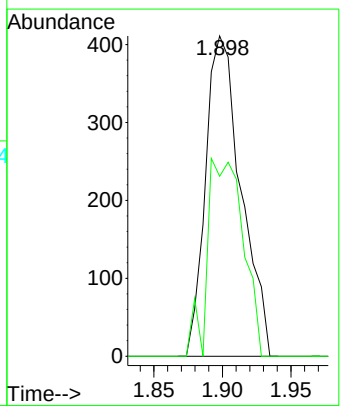


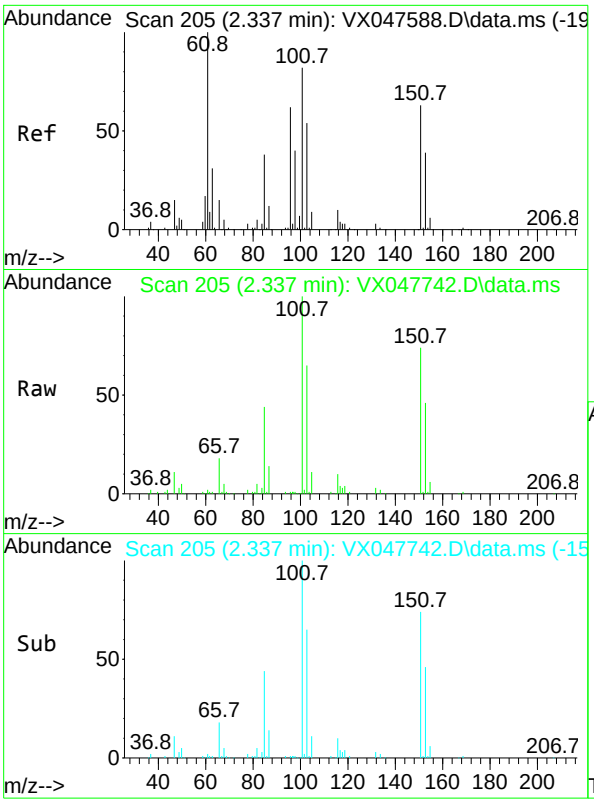


#7
Trichlorofluoromethane
Concen: 0.259 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Tgt Ion:101 Resp: 742

Ion	Ratio	Lower	Upper
101	100		
103	56.2	51.4	77.2



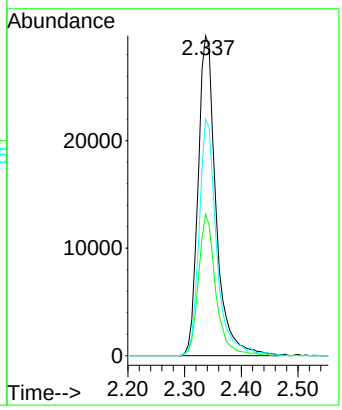


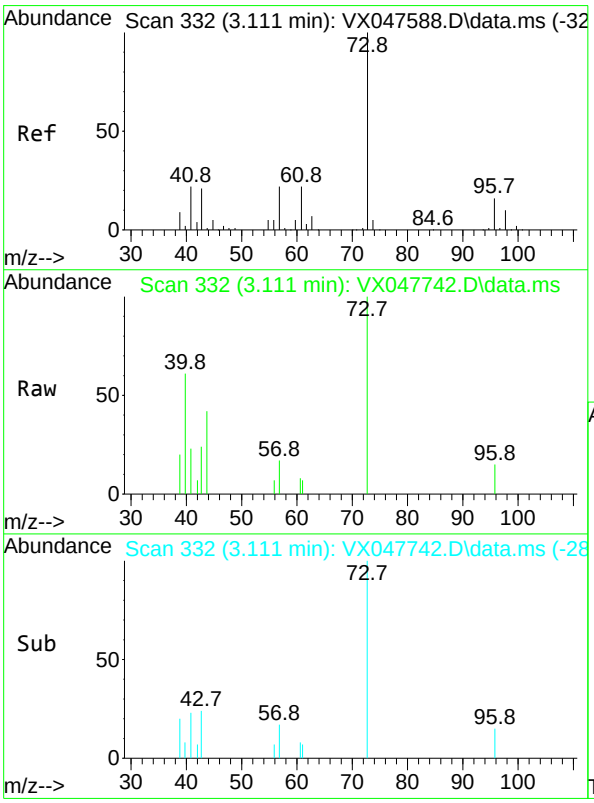
#9
1,1,2-Trichlorotrifluoroethane
Concen: 38.934 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Tgt Ion:101 Resp: 65221

Ion	Ratio	Lower	Upper
101	100		
85	42.9	35.5	53.3
151	72.6	59.4	89.0

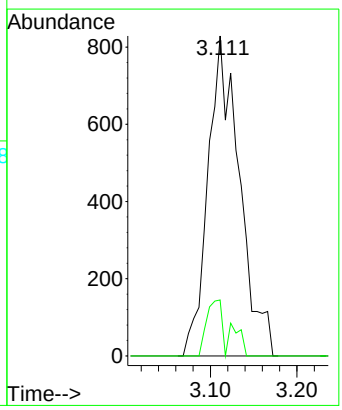


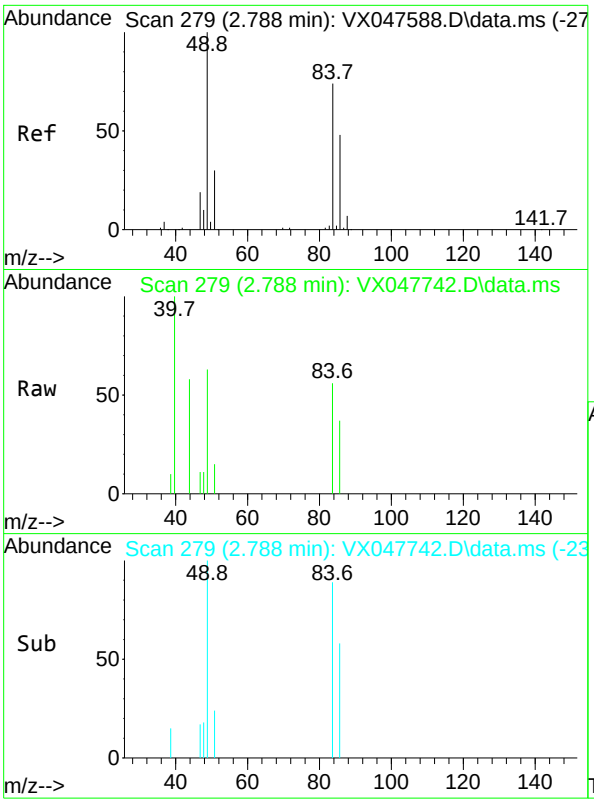


#19
Methyl tert-butyl Ether
Concen: 0.333 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Tgt Ion: 73 Resp: 2090

Ion	Ratio	Lower	Upper
73	100		
57	17.5	17.4	26.2



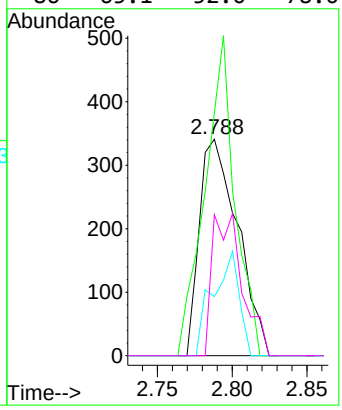


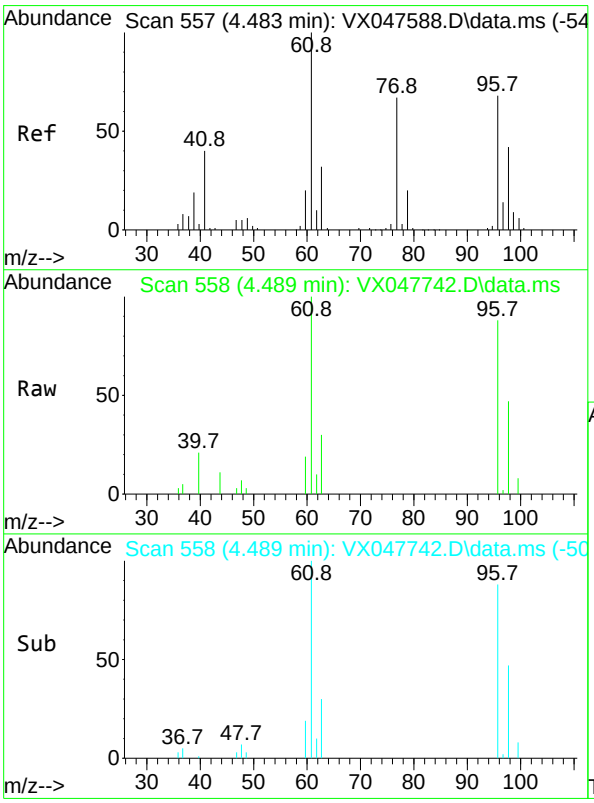
#20
Methylene Chloride
Concen: 0.286 ug/l
RT: 2.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Tgt Ion: 84 Resp: 607

Ion	Ratio	Lower	Upper
84	100		
49	112.0	108.6	162.8
51	27.3	32.6	48.8#
86	65.1	52.0	78.0

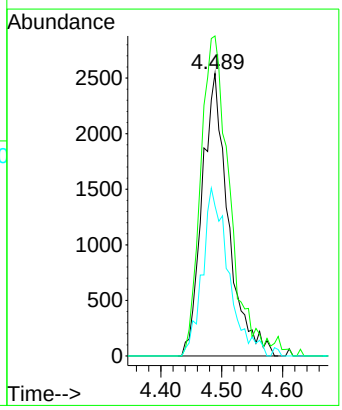


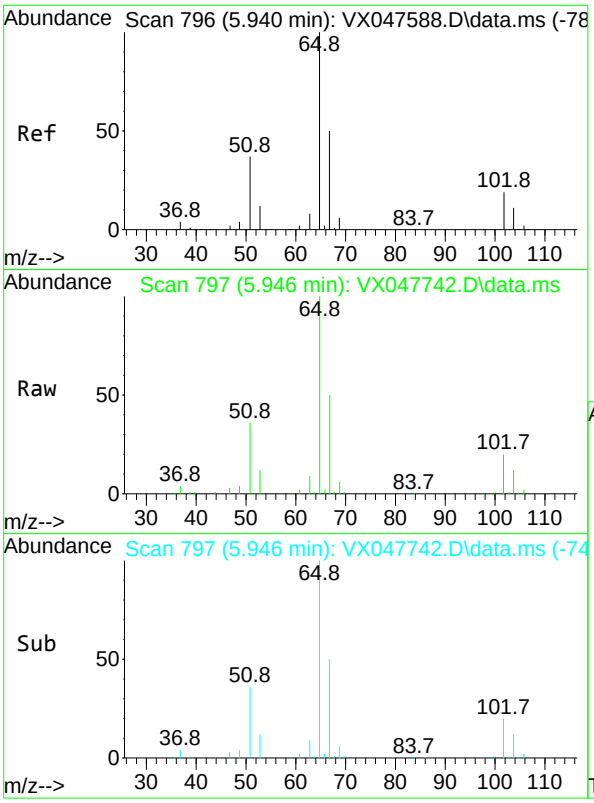


#27
cis-1,2-Dichloroethene
Concen: 3.336 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Tgt Ion: 96 Resp: 7569

Ion	Ratio	Lower	Upper
96	100		
61	125.0	0.0	303.2
98	59.4	0.0	127.8



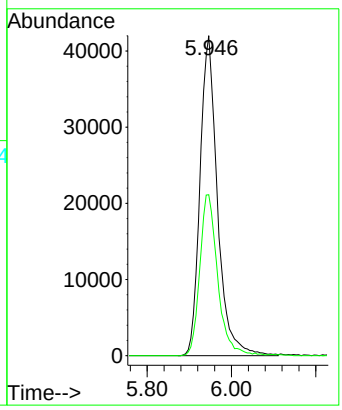


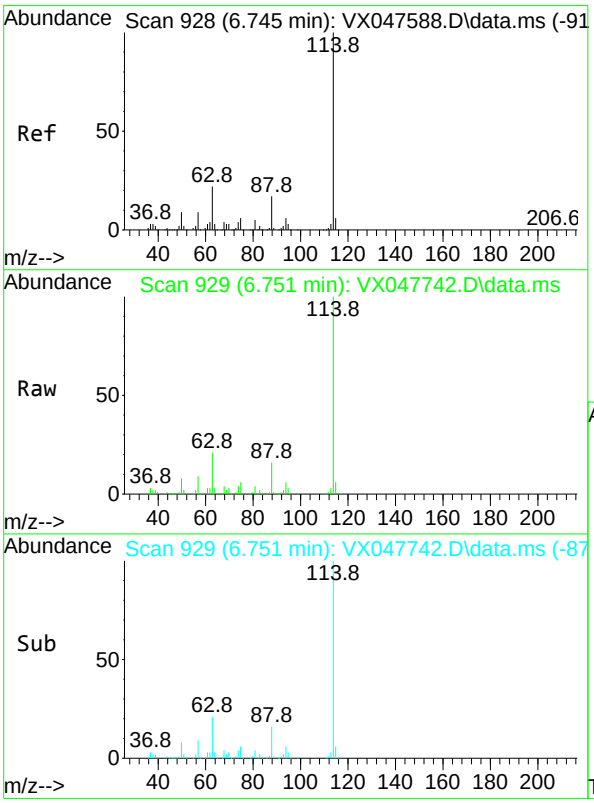
#33
1,2-Dichloroethane-d4
Concen: 52.482 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Tgt Ion: 65 Resp: 120988

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	103.0

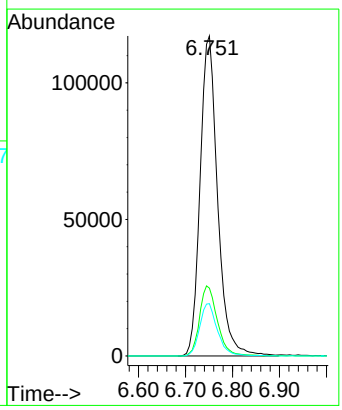


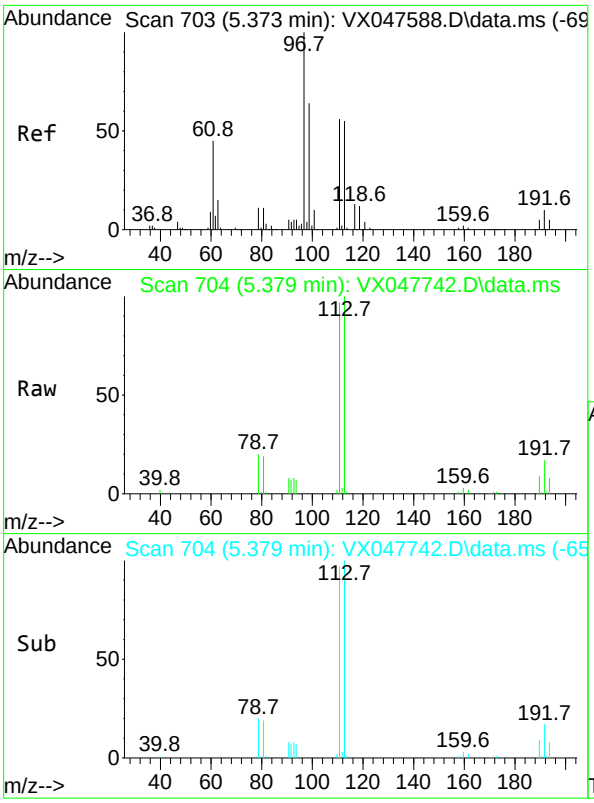


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Tgt Ion:114 Resp: 302539

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.4	0.0	34.2



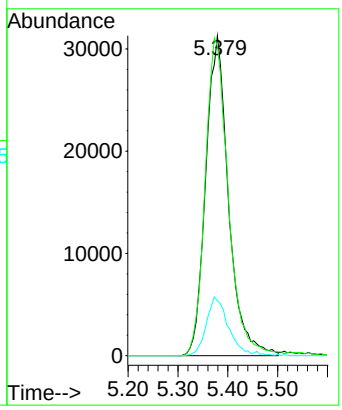


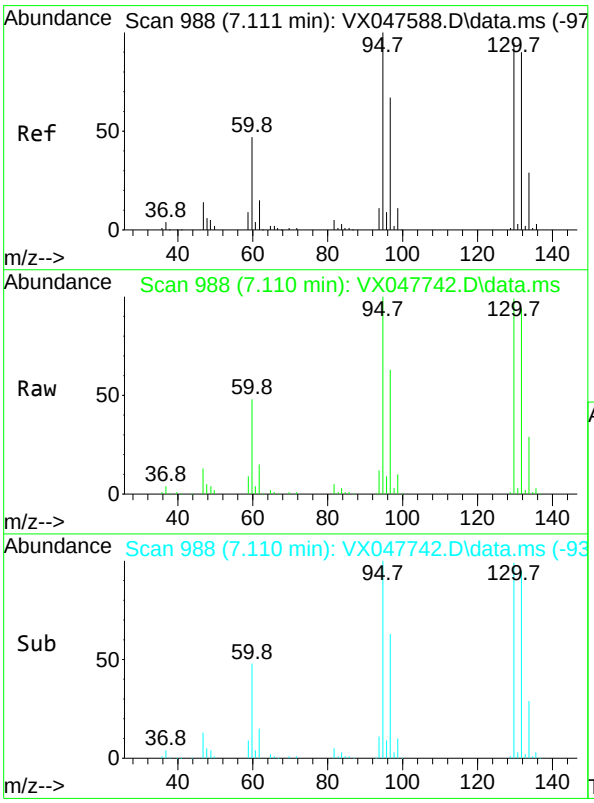
#35
Dibromofluoromethane
Concen: 48.996 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Tgt Ion:113 Resp: 99412

Ion	Ratio	Lower	Upper
113	100		
111	100.8	80.9	121.3
192	17.5	14.2	21.4

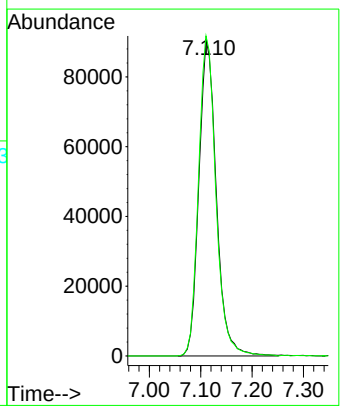


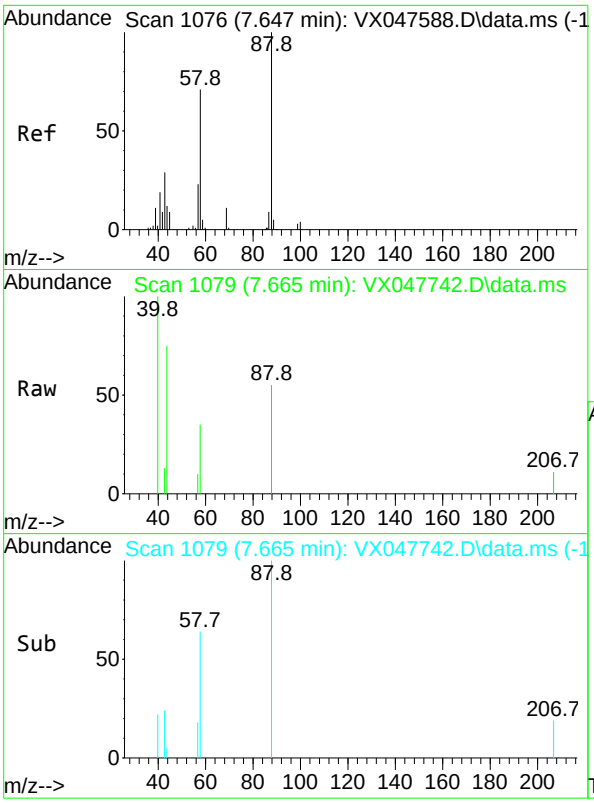


#44
Trichloroethene
Concen: 98.064 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Tgt Ion:130 Resp: 213493

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	210.8



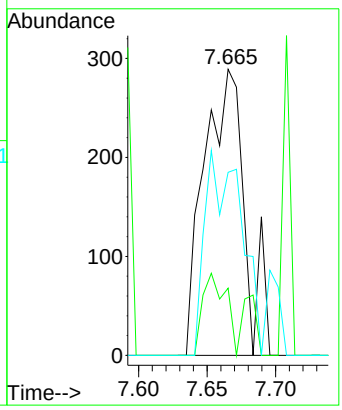


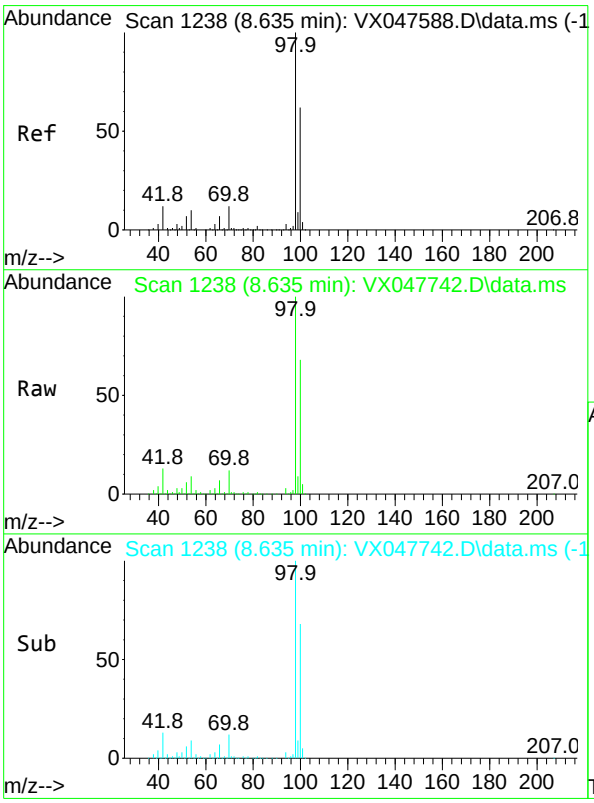
#49
1,4-Dioxane
Concen: 22.703 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Tgt Ion: 88 Resp: 595

Ion	Ratio	Lower	Upper
88	100		
43	16.5	30.2	45.2#
58	64.2	59.5	89.3

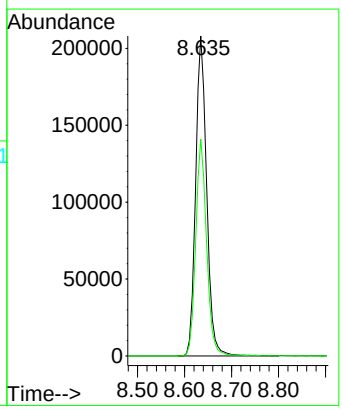


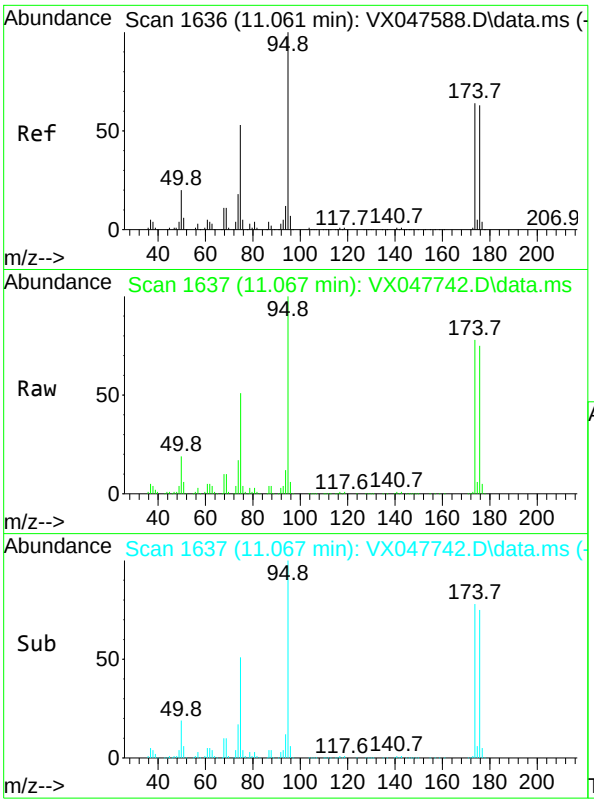


#50
Toluene-d8
Concen: 48.497 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Tgt Ion: 98 Resp: 340487

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.0	79.4



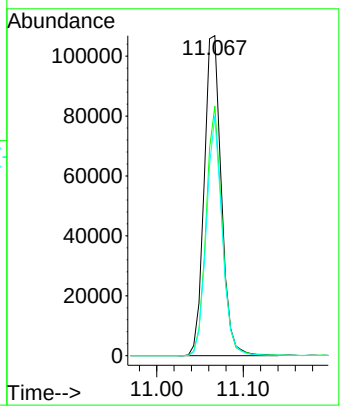


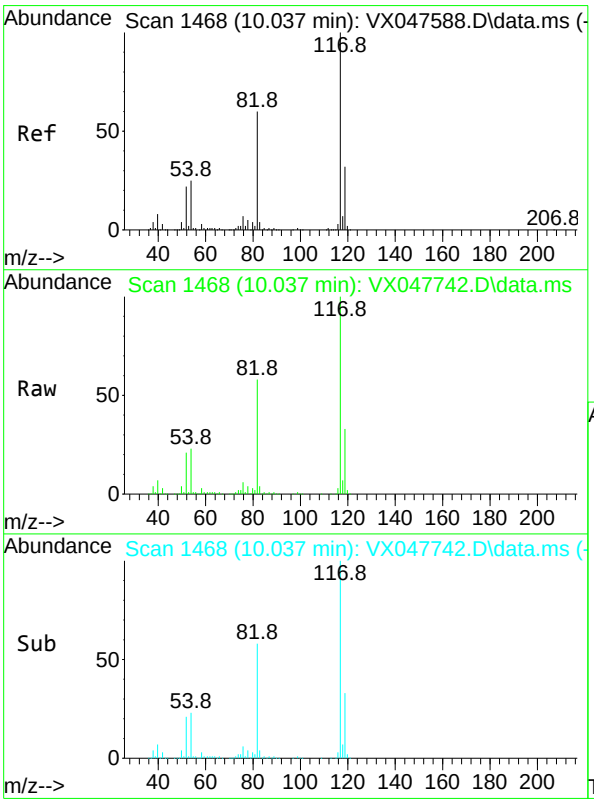
#62
4-Bromofluorobenzene
Concen: 55.150 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Tgt Ion: 95 Resp: 146947

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	141.6
176	69.4	0.0	138.4

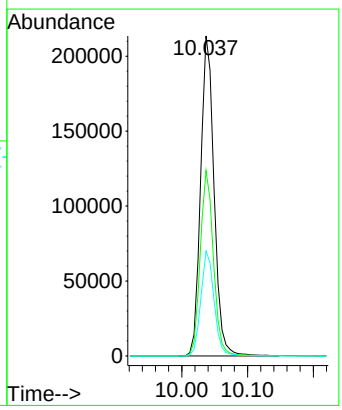


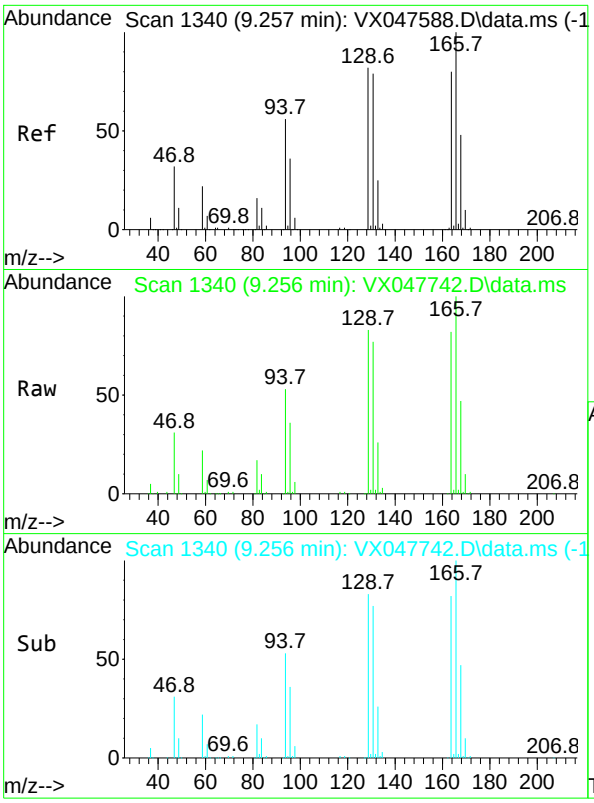


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Tgt Ion:117 Resp: 304106

Ion	Ratio	Lower	Upper
117	100		
82	58.0	47.8	71.6
119	32.8	25.2	37.8



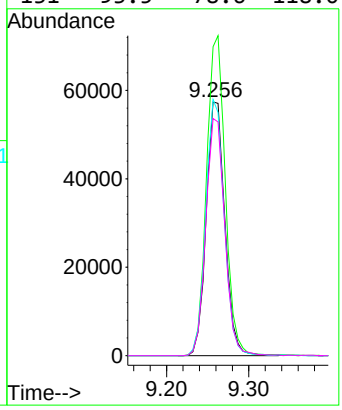


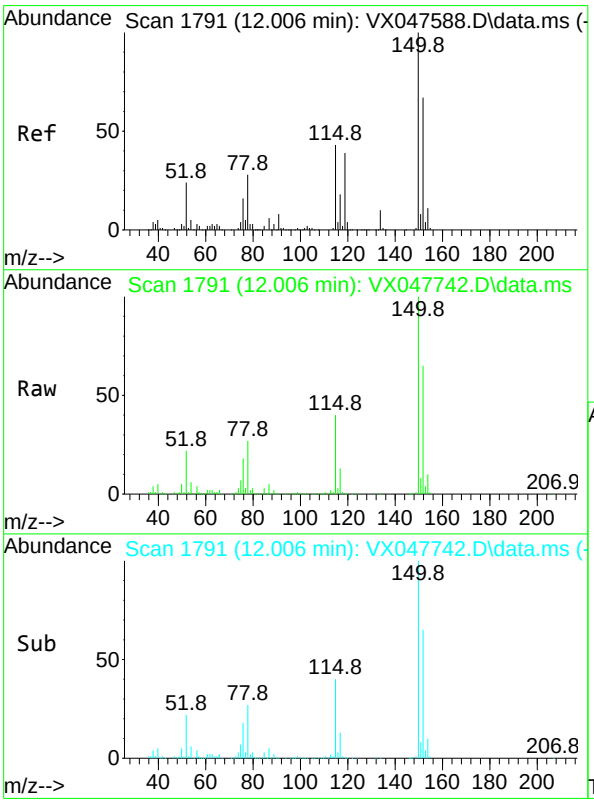
#64
Tetrachloroethene
Concen: 45.612 ug/l
RT: 9.256 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE134D2-20250912

Tgt Ion:164 Resp: 90424

Ion	Ratio	Lower	Upper
164	100		
166	121.8	100.2	150.2
129	101.0	81.8	122.6
131	93.5	78.6	118.0

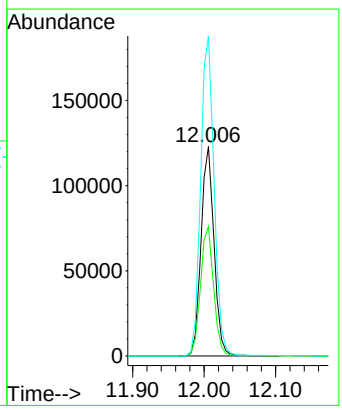




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047742.D
Acq: 23 Sep 2025 18:18

Tgt Ion:152 Resp: 155005

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.9	134.5
150	158.1	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-25	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047763.D	1	09/24/25 09:25	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	830	E	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	6.40		0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	5.60		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	190	E	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.10		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-25	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047763.D	1	09/24/25 09:25	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	250	E	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.8		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	46.8		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	45.7		89 - 112		91%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	124000	5.544				
540-36-3	1,4-Difluorobenzene	270000	6.751				
3114-55-4	Chlorobenzene-d5	267000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	135000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-25	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047763.D	1	09/24/25 09:25	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047763.D
Acq On : 24 Sep 2025 09:25
Operator : JC/MD
Sample : Q3097-25
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 52 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912

Quant Time: Sep 25 01:20:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

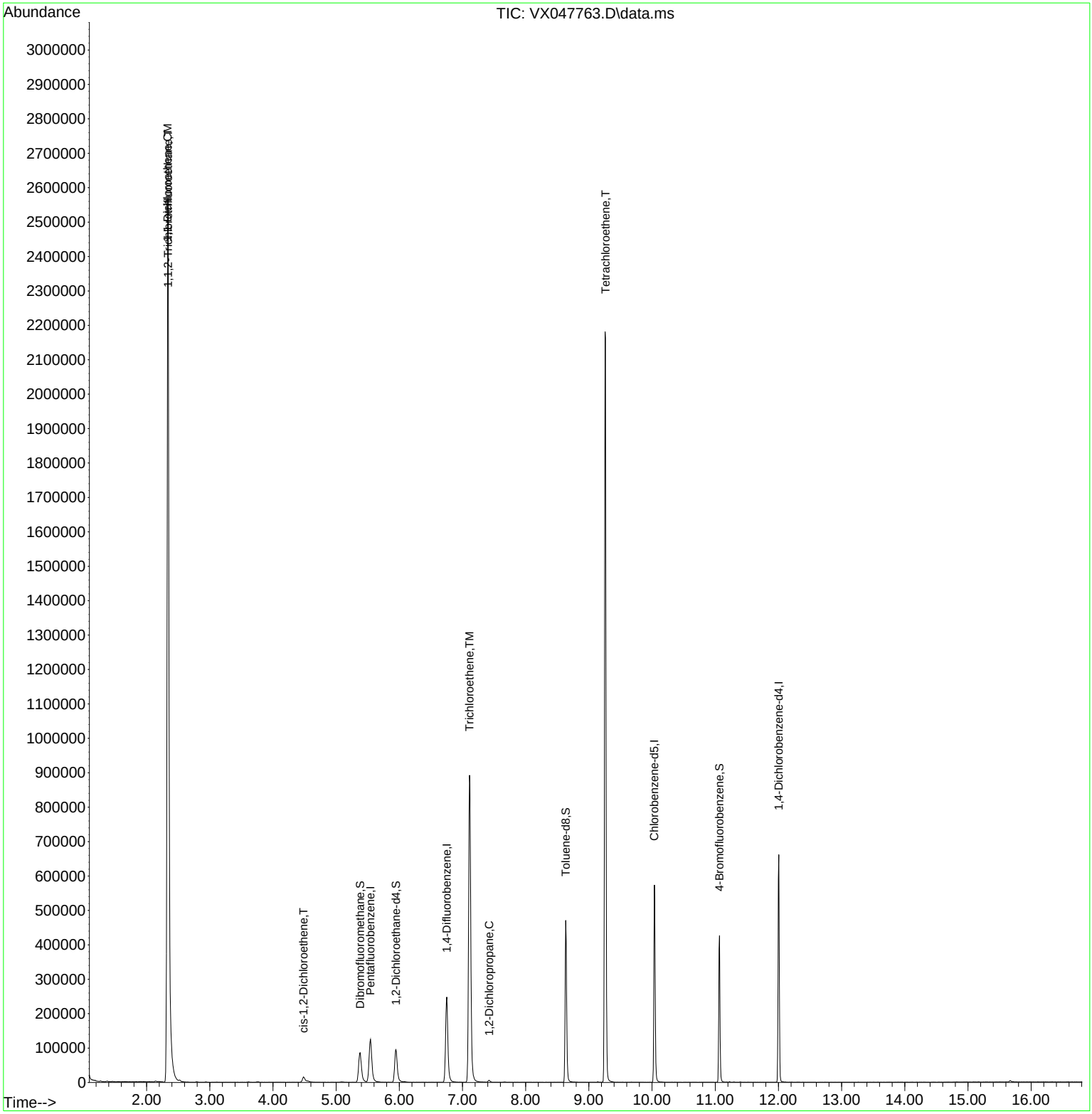
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	124480	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	269681	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	267242	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	134755	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	102695	51.829	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.660%			
35) Dibromofluoromethane	5.379	113	84691	46.826	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.660%			
50) Toluene-d8	8.634	98	286083	45.713	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 91.420%#			
62) 4-Bromofluorobenzene	11.067	95	121659	51.223	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.440%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	1200278	833.652	ug/l	99
12) 1,1-Dichloroethene	2.331	96	9454	6.392	ug/l #	77
27) cis-1,2-Dichloroethene	4.483	96	10892	5.586	ug/l	88
44) Trichloroethene	7.110	130	378121	194.845	ug/l	97
45) 1,2-Dichloropropane	7.421	63	2305	1.121	ug/l	90
64) Tetrachloroethene	9.262	164	428438	245.927	ug/l	98

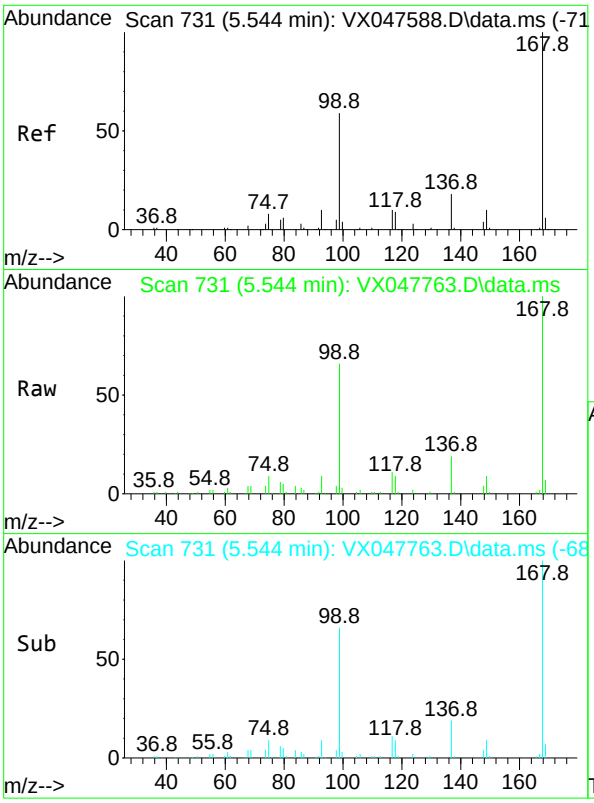
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047763.D
Acq On : 24 Sep 2025 09:25
Operator : JC/MD
Sample : Q3097-25
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 52 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912

Quant Time: Sep 25 01:20:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



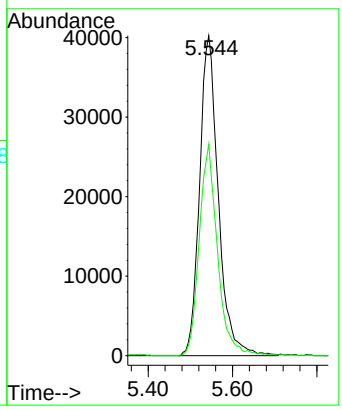


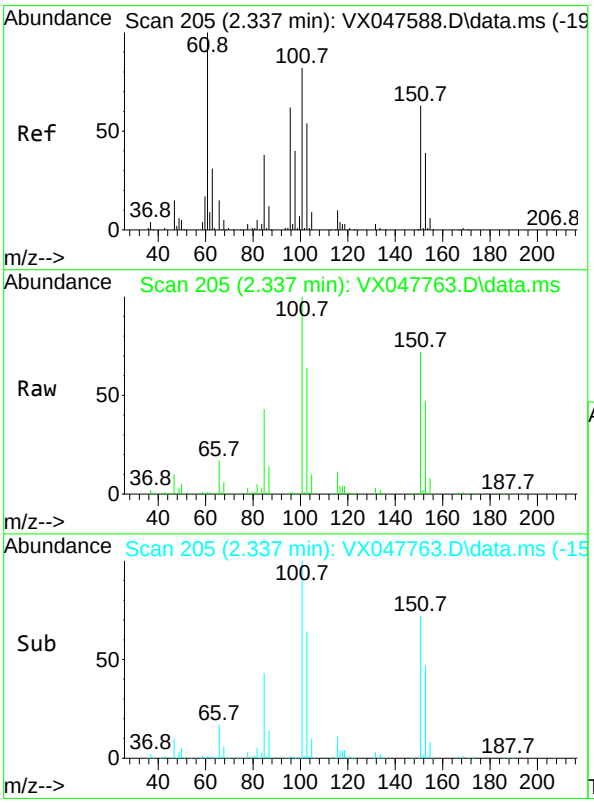
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912

Tgt Ion:168 Resp: 124480

Ion	Ratio	Lower	Upper
168	100		
99	66.1	48.8	73.2

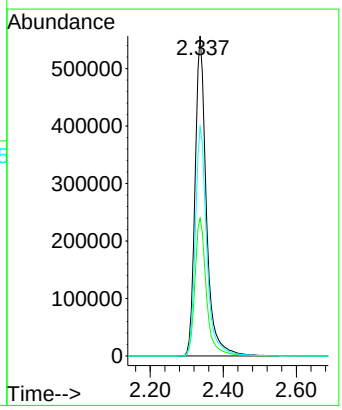


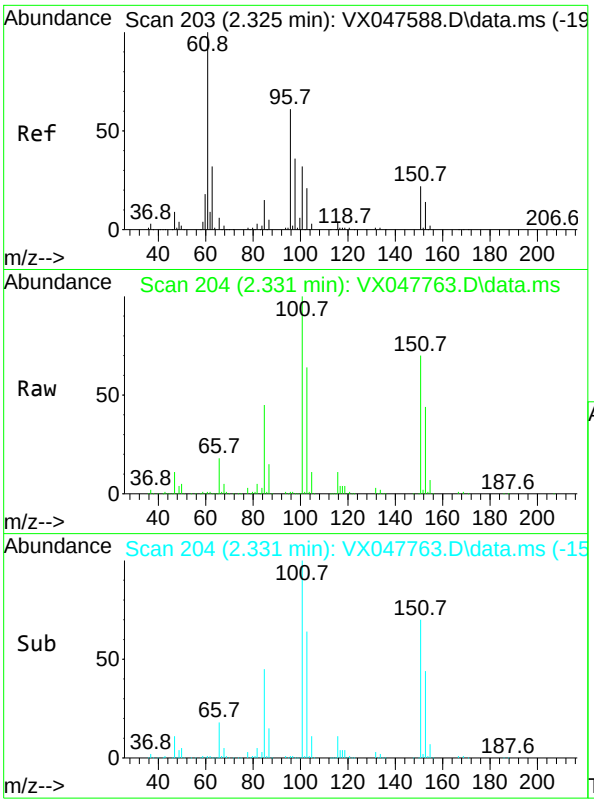


#9
1,1,2-Trichlorotrifluoroethane
Concen: 833.652 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Tgt Ion:101 Resp: 1200278

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.5	53.3
151	73.1	59.4	89.0



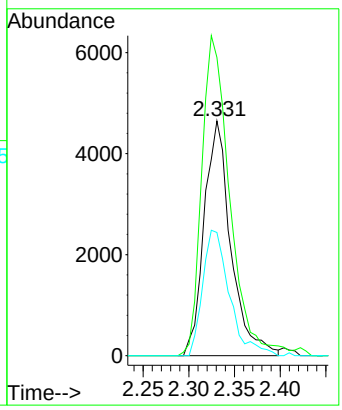


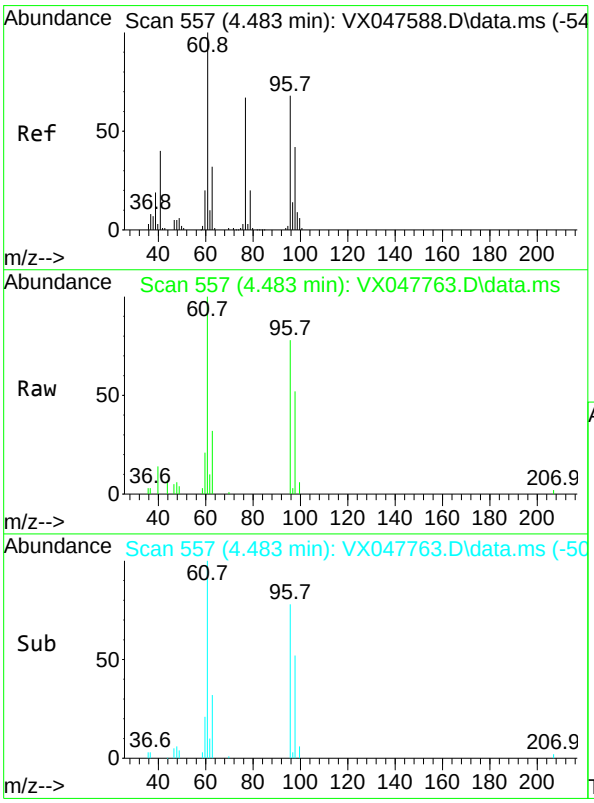
#12
1,1-Dichloroethene
Concen: 6.392 ug/l
RT: 2.331 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912

Tgt Ion: 96 Resp: 9454

Ion	Ratio	Lower	Upper
96	100		
61	127.1	131.0	196.6#
98	52.5	47.7	71.5

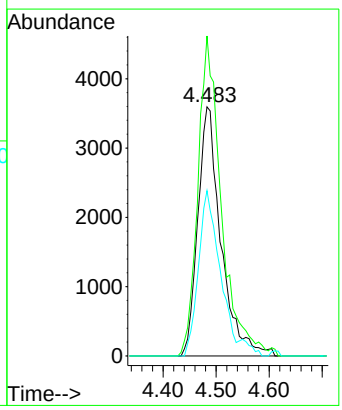


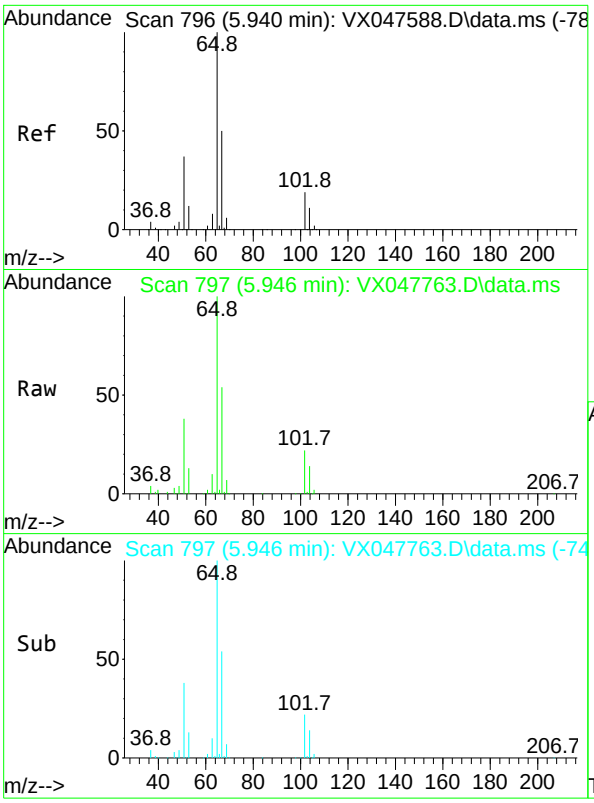


#27
cis-1,2-Dichloroethene
Concen: 5.586 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Tgt Ion: 96 Resp: 10892

Ion	Ratio	Lower	Upper
96	100		
61	130.3	0.0	303.2
98	64.3	0.0	127.8



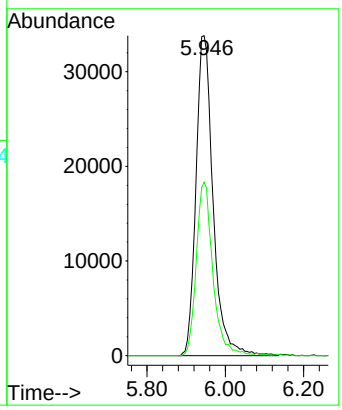


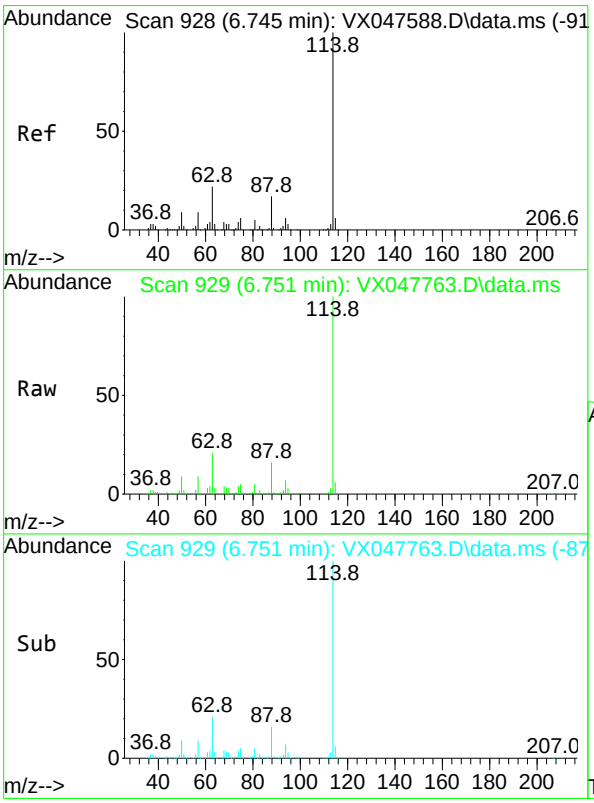
#33
1,2-Dichloroethane-d4
Concen: 51.829 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912

Tgt Ion: 65 Resp: 102695

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0

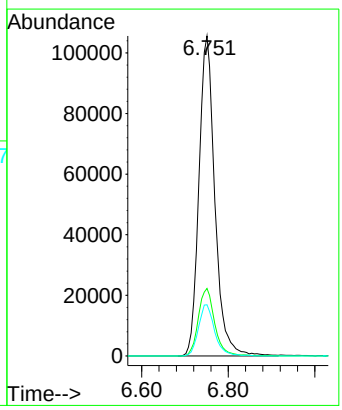


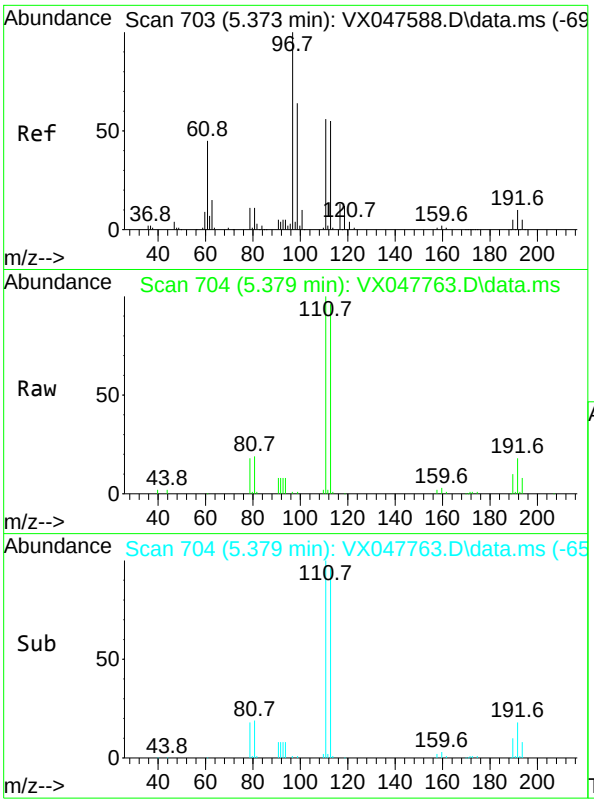


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Tgt Ion:114 Resp: 269681

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	44.0
88	16.0	0.0	34.2



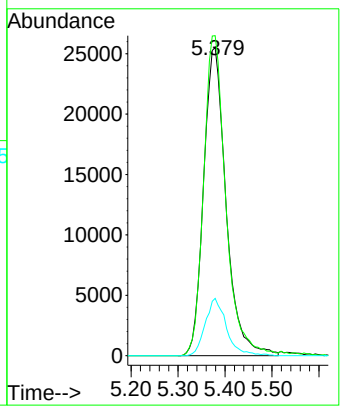


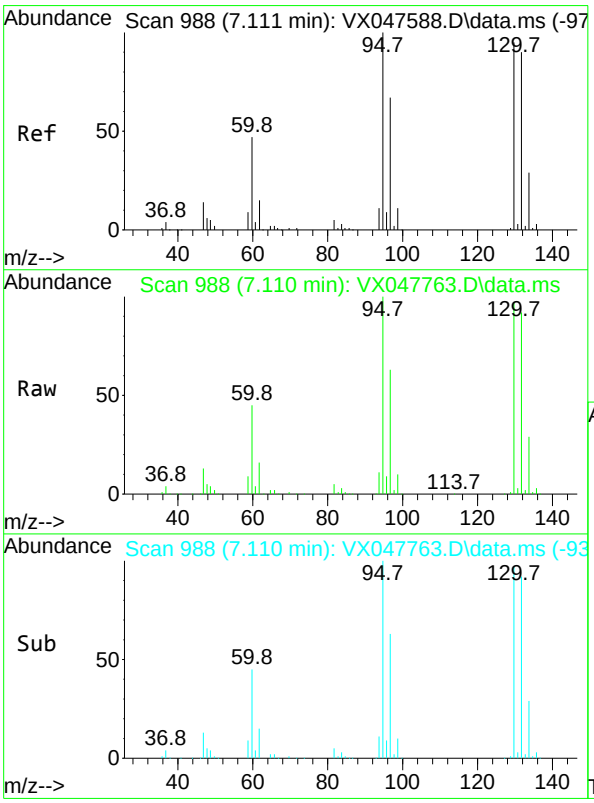
#35
Dibromofluoromethane
Concen: 46.826 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912

Tgt Ion:113 Resp: 84691

Ion	Ratio	Lower	Upper
113	100		
111	102.1	80.9	121.3
192	17.6	14.2	21.4

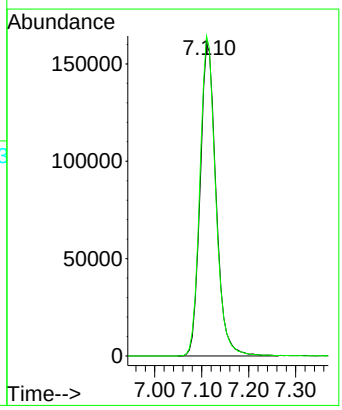


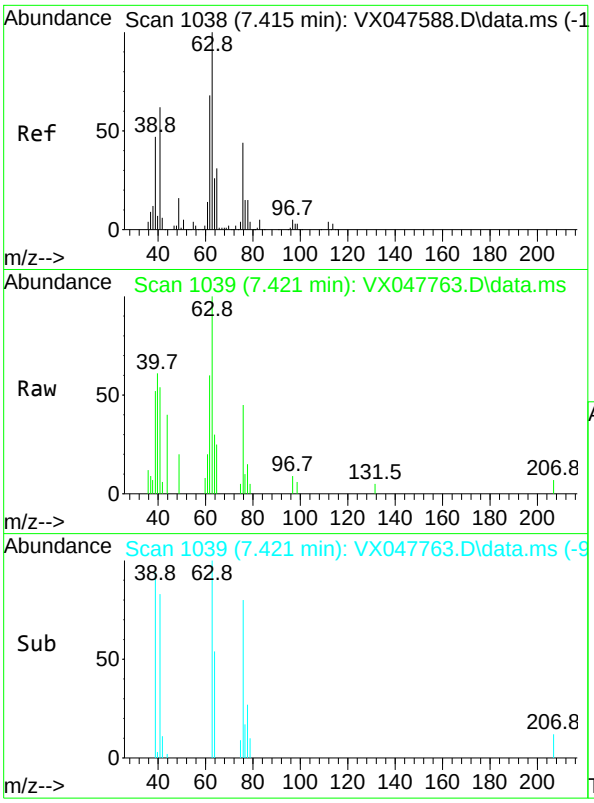


#44
Trichloroethene
Concen: 194.845 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Tgt Ion:130 Resp: 378121

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	210.8



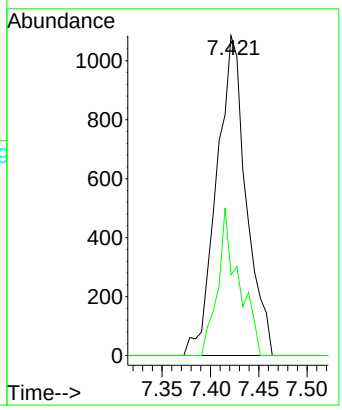


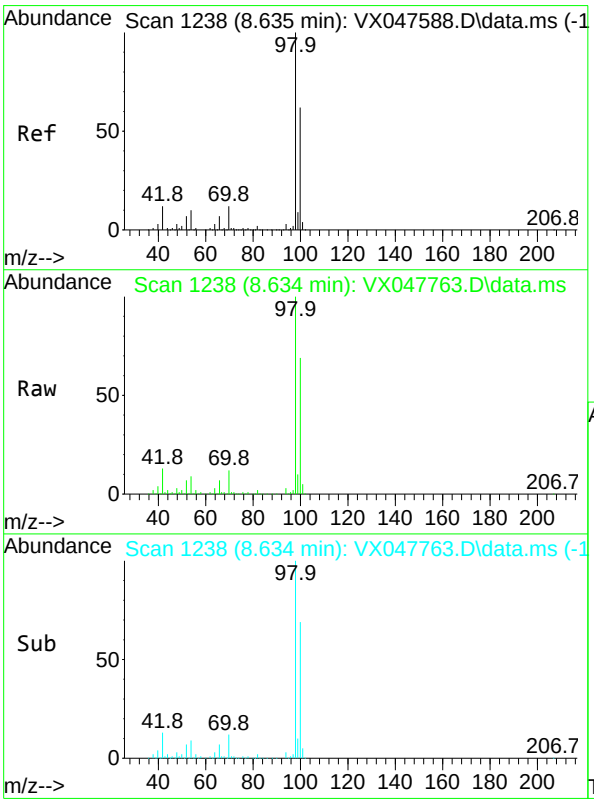
#45
1,2-Dichloropropane
Concen: 1.121 ug/l
RT: 7.421 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912

Tgt Ion: 63 Resp: 2305

Ion	Ratio	Lower	Upper
63	100		
65	25.3	24.7	37.1

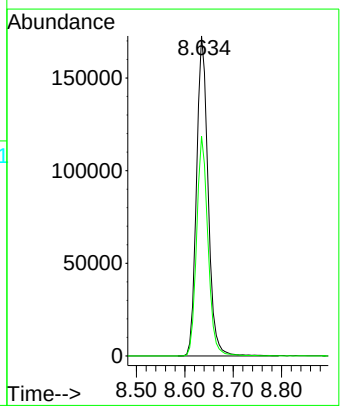


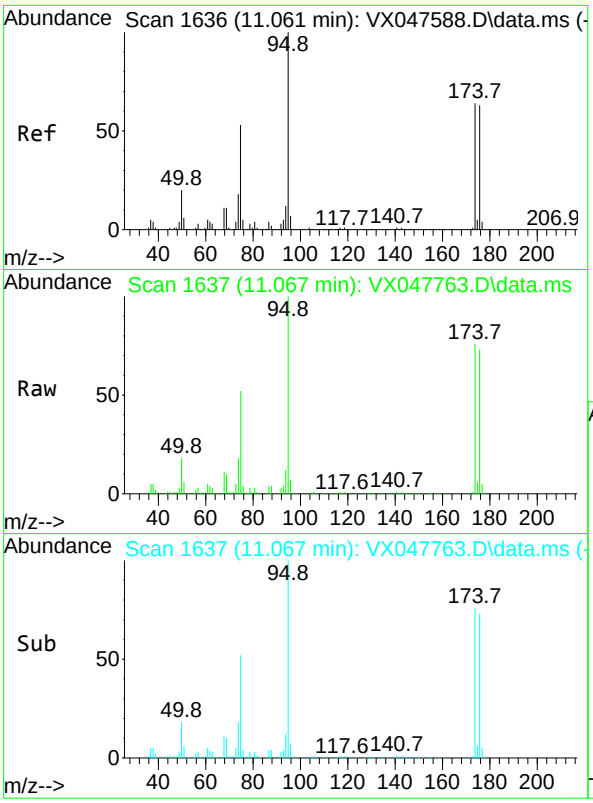


#50
Toluene-d8
Concen: 45.713 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Tgt Ion: 98 Resp: 286083

Ion	Ratio	Lower	Upper
98	100		
100	67.5	53.0	79.4



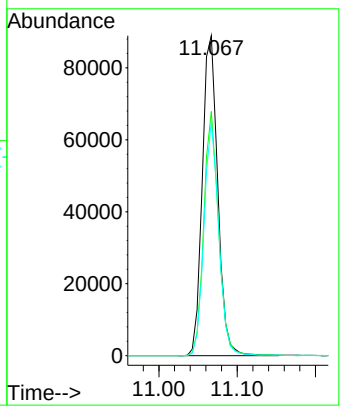


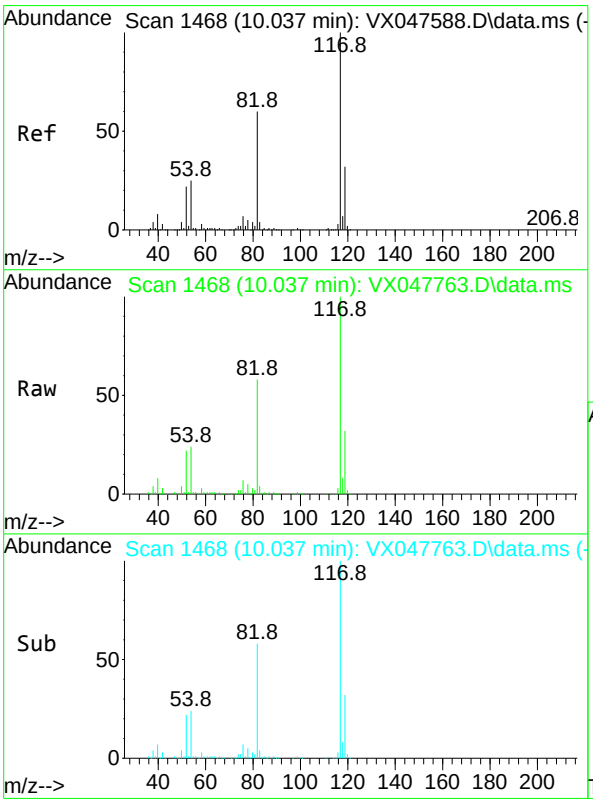
#62
4-Bromofluorobenzene
Concen: 51.223 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912

Tgt Ion: 95 Resp: 121659

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	141.6
176	70.0	0.0	138.4

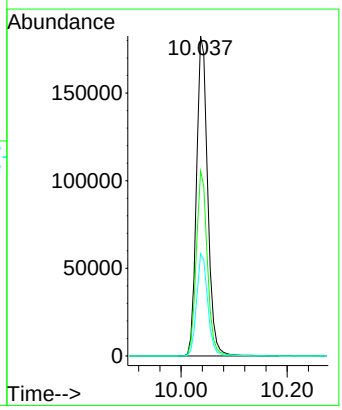


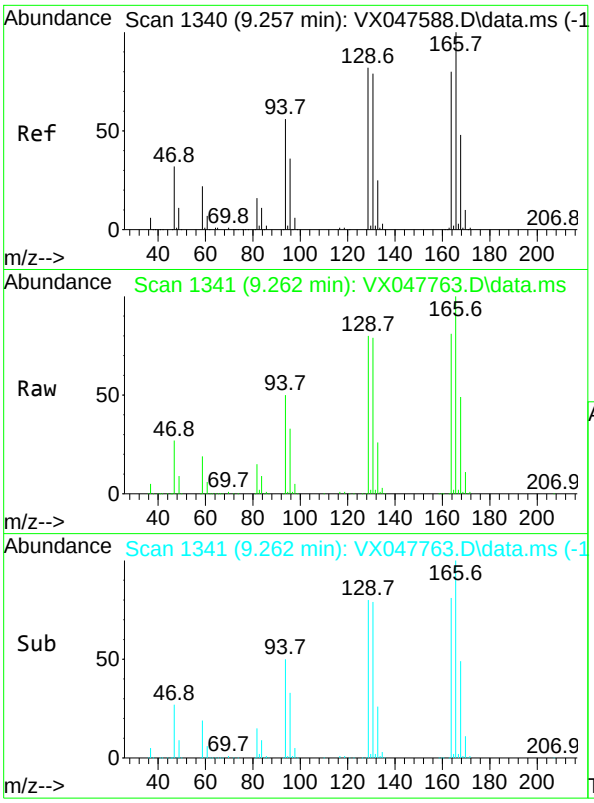


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Tgt Ion:117 Resp: 267242

Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.8	71.6
119	32.0	25.2	37.8



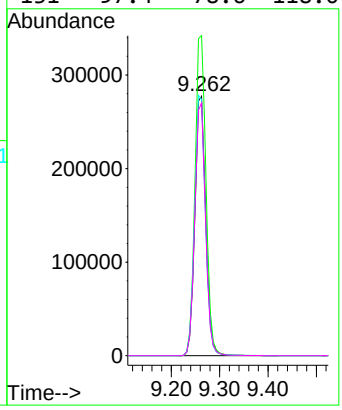


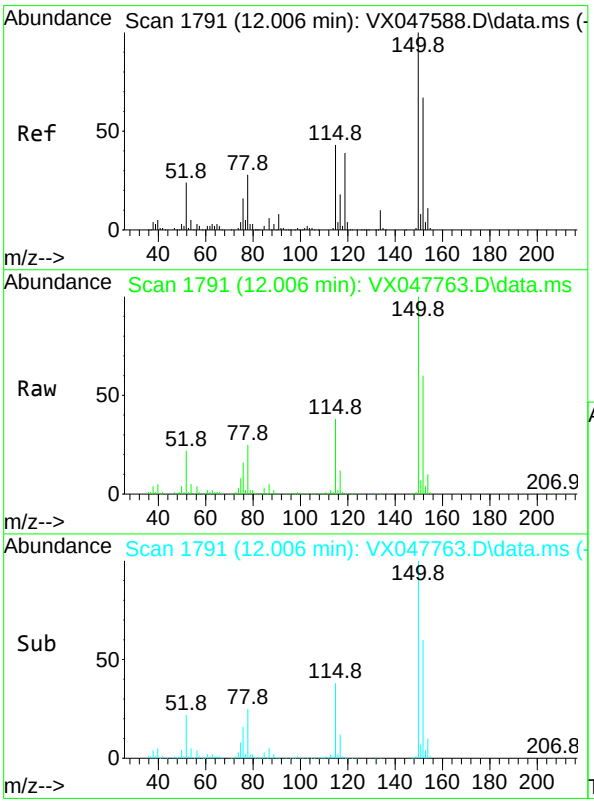
#64
Tetrachloroethene
Concen: 245.927 ug/l
RT: 9.262 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912

Tgt Ion:164 Resp: 428438

Ion	Ratio	Lower	Upper
164	100		
166	123.4	100.2	150.2
129	98.7	81.8	122.6
131	97.4	78.6	118.0

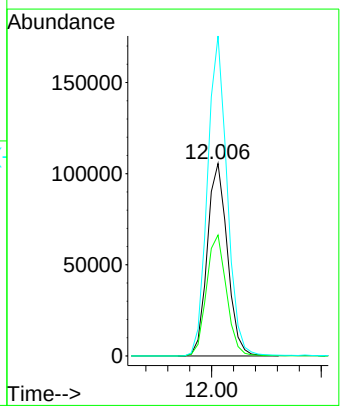




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047763.D
Acq: 24 Sep 2025 09:25

Tgt Ion:152 Resp: 134755

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.9	134.5
150	161.8	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-25DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047778.D	10	09/24/25 16:05	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	5.00	UD	2.20	5.00	10.0	ug/L
74-87-3	Chloromethane	5.00	UD	3.20	5.00	10.0	ug/L
75-01-4	Vinyl Chloride	7.50	UD	2.60	7.50	10.0	ug/L
74-83-9	Bromomethane	37.5	UD	14.4	37.5	50.0	ug/L
75-00-3	Chloroethane	7.50	UD	4.70	7.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	5.00	UD	3.30	5.00	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	670	D	2.50	5.00	10.0	ug/L
75-35-4	1,1-Dichloroethene	7.50	UD	2.30	7.50	10.0	ug/L
67-64-1	Acetone	37.5	UD	15.1	37.5	50.0	ug/L
75-15-0	Carbon Disulfide	7.50	UD	2.10	7.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	UD	1.60	5.00	10.0	ug/L
79-20-9	Methyl Acetate	7.50	UD	2.70	7.50	10.0	ug/L
75-09-2	Methylene Chloride	5.00	UD	2.80	5.00	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	5.00	UD	2.30	5.00	10.0	ug/L
75-34-3	1,1-Dichloroethane	5.00	UD	2.30	5.00	10.0	ug/L
110-82-7	Cyclohexane	25.0	UD	14.5	25.0	50.0	ug/L
78-93-3	2-Butanone	25.0	UD	9.80	25.0	50.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	2.50	5.00	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	7.50	UD	1.90	7.50	10.0	ug/L
74-97-5	Bromochloromethane	5.00	UD	2.20	5.00	10.0	ug/L
67-66-3	Chloroform	5.00	UD	2.50	5.00	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	UD	2.00	5.00	10.0	ug/L
108-87-2	Methylcyclohexane	5.00	UD	1.60	5.00	10.0	ug/L
71-43-2	Benzene	5.00	UD	1.50	5.00	10.0	ug/L
107-06-2	1,2-Dichloroethane	5.00	UD	2.20	5.00	10.0	ug/L
79-01-6	Trichloroethene	170	D	0.93	7.50	10.0	ug/L
78-87-5	1,2-Dichloropropane	5.00	UD	2.00	5.00	10.0	ug/L
75-27-4	Bromodichloromethane	5.00	UD	2.20	5.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	UD	6.80	25.0	50.0	ug/L
108-88-3	Toluene	5.00	UD	1.40	5.00	10.0	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-25DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047778.D	10	09/24/25 16:05	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	5.00	UD	1.70	5.00	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	UD	1.60	5.00	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	5.00	UD	2.10	5.00	10.0	ug/L
591-78-6	2-Hexanone	25.0	UD	8.90	25.0	50.0	ug/L
124-48-1	Dibromochloromethane	5.00	UD	1.80	5.00	10.0	ug/L
106-93-4	1,2-Dibromoethane	5.00	UD	1.50	5.00	10.0	ug/L
127-18-4	Tetrachloroethene	210	D	2.30	5.00	10.0	ug/L
108-90-7	Chlorobenzene	5.00	UD	1.20	5.00	10.0	ug/L
100-41-4	Ethyl Benzene	5.00	UD	1.30	5.00	10.0	ug/L
179601-23-1	m/p-Xylenes	10.0	UD	2.40	10.0	20.0	ug/L
95-47-6	o-Xylene	5.00	UD	1.20	5.00	10.0	ug/L
100-42-5	Styrene	5.00	UD	1.50	5.00	10.0	ug/L
75-25-2	Bromoform	5.00	UD	1.90	5.00	10.0	ug/L
98-82-8	Isopropylbenzene	5.00	UD	1.20	5.00	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	UD	2.60	5.00	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	UD	1.60	5.00	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	UD	1.90	5.00	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	UD	1.60	5.00	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	7.50	UD	5.30	7.50	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.00	UD	2.00	5.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.50	UD	2.00	7.50	10.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.4		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	48.0		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	134000	5.544				
540-36-3	1,4-Difluorobenzene	282000	6.751				
3114-55-4	Chlorobenzene-d5	284000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	144000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE134D3-20250912DL	SDG No.:	Q3097
Lab Sample ID:	Q3097-25DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047778.D	10	09/24/25 16:05	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047778.D
Acq On : 24 Sep 2025 16:05
Operator : JC/MD
Sample : Q3097-25DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912DL

Quant Time: Sep 25 01:17:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

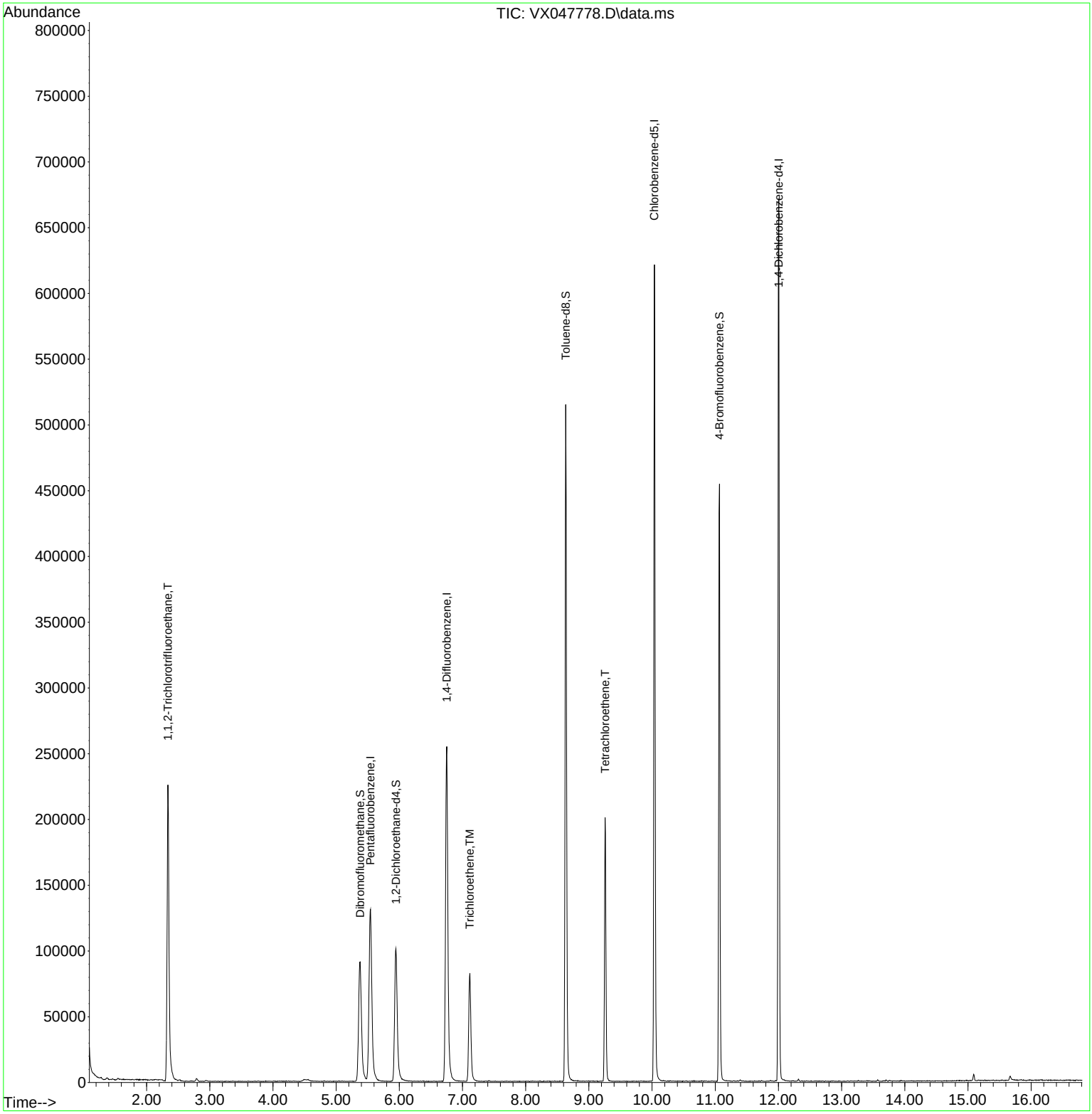
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	133917	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	281574	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	283549	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	143934	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	109542	51.389	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.780%			
35) Dibromofluoromethane	5.379	113	90543	47.947	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.900%			
50) Toluene-d8	8.635	98	313894	48.039	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.080%			
62) 4-Bromofluorobenzene	11.067	95	133656	53.897	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.800%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	104227	67.289	ug/l	99
44) Trichloroethene	7.117	130	35328	17.436	ug/l	90
64) Tetrachloroethene	9.256	164	39207	21.211	ug/l	95

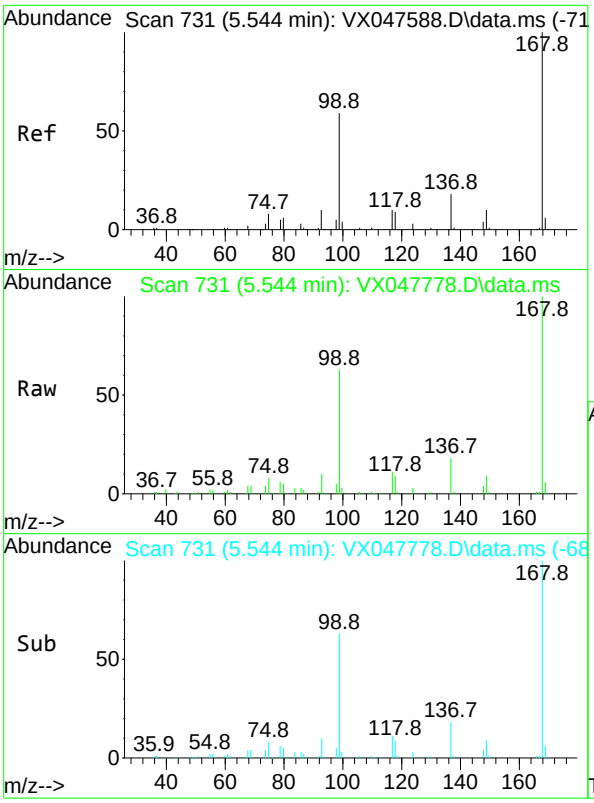
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047778.D
Acq On : 24 Sep 2025 16:05
Operator : JC/MD
Sample : Q3097-25DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912DL

Quant Time: Sep 25 01:17:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



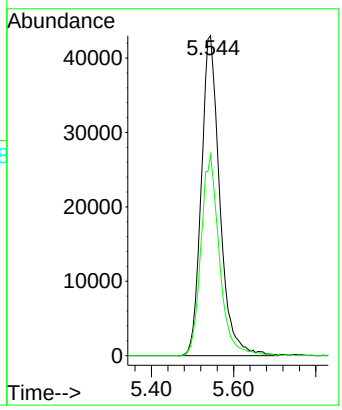


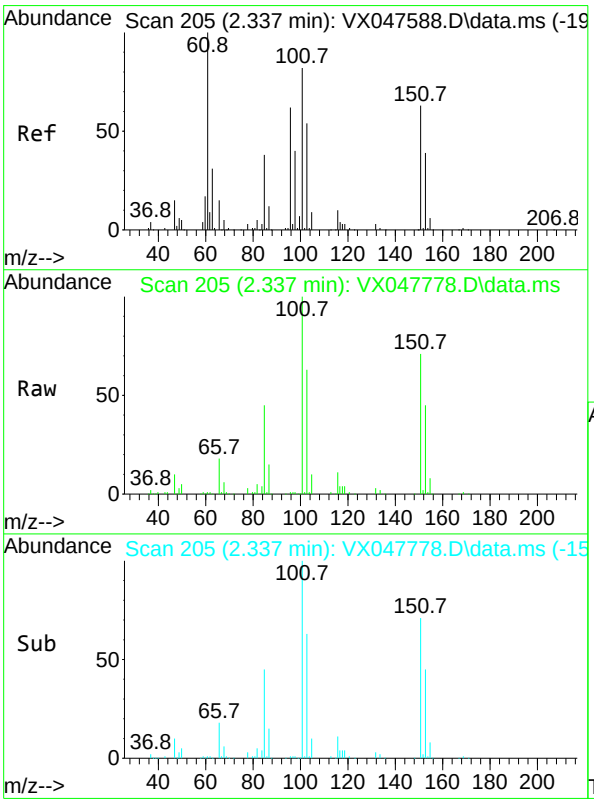
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:168 Resp: 133917

Ion	Ratio	Lower	Upper
168	100		
99	62.8	48.8	73.2

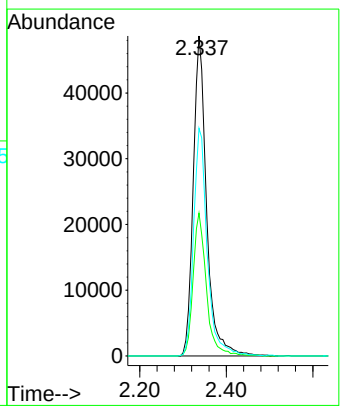


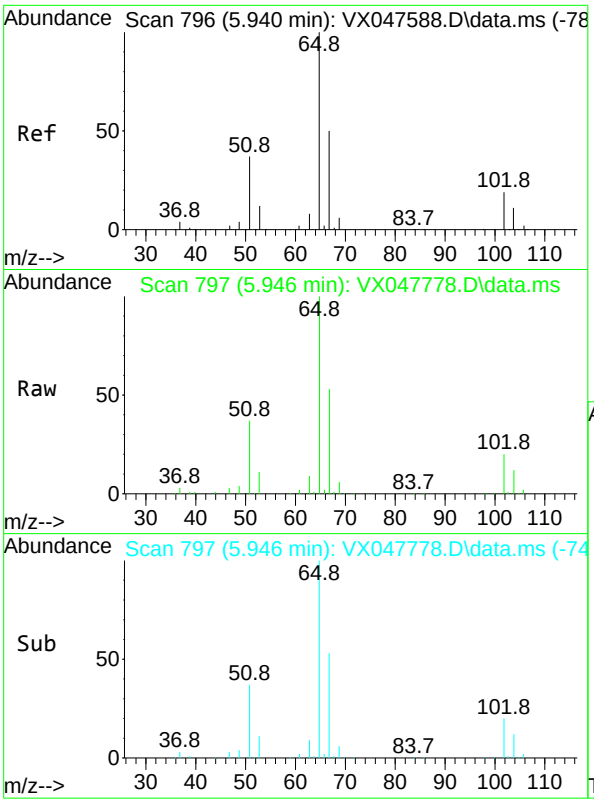


#9
1,1,2-Trichlorotrifluoroethane
Concen: 67.289 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Tgt Ion:101 Resp: 104227

Ion	Ratio	Lower	Upper
101	100		
85	44.2	35.5	53.3
151	72.8	59.4	89.0



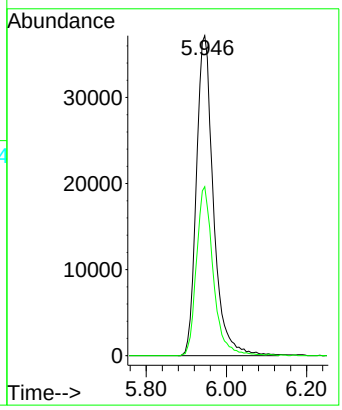


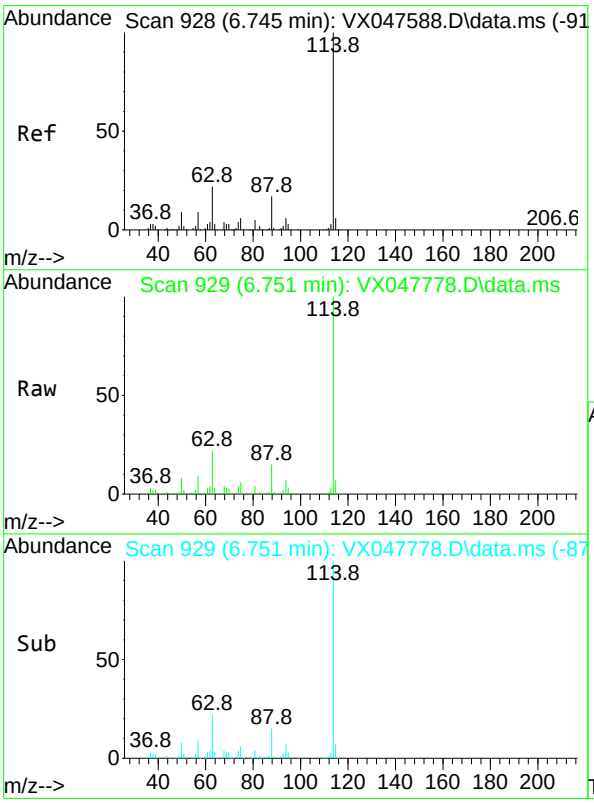
#33
1,2-Dichloroethane-d4
Concen: 51.389 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912DL

Tgt Ion: 65 Resp: 109542

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0

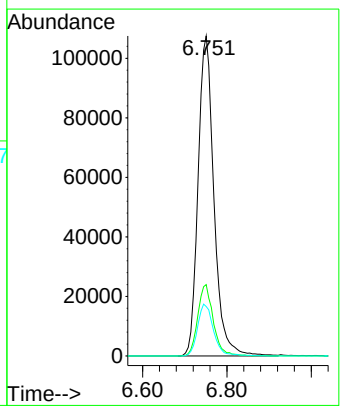


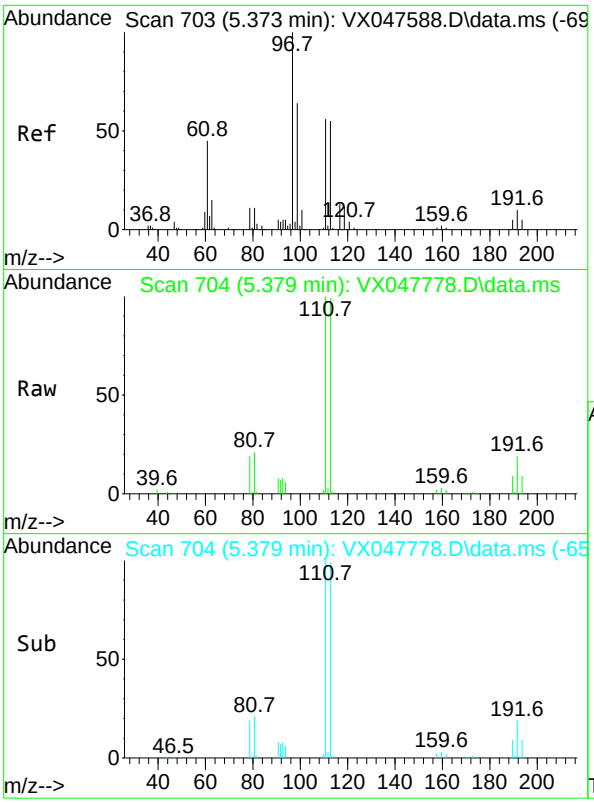


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Tgt Ion:114 Resp: 281574

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	15.5	0.0	34.2



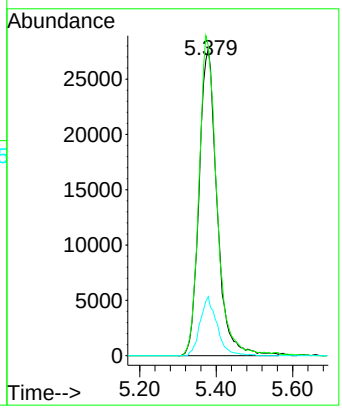


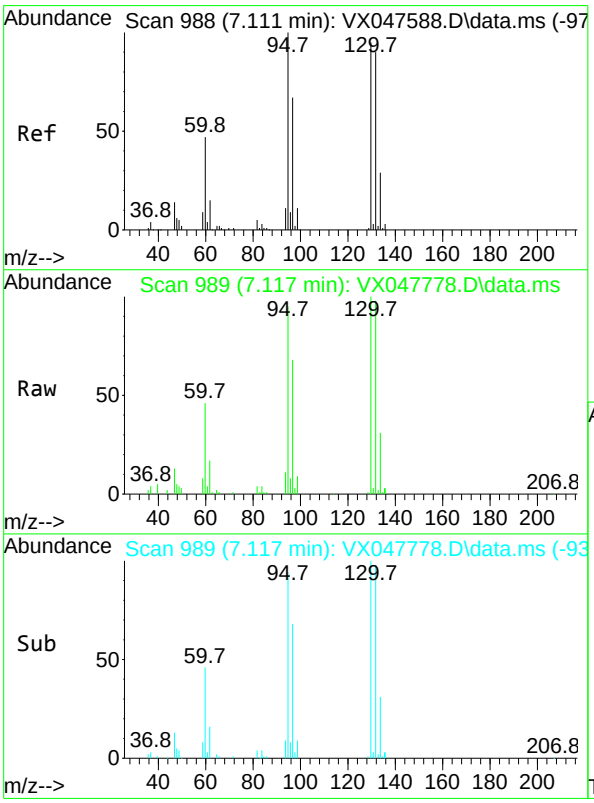
#35
Dibromofluoromethane
Concen: 47.947 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:113 Resp: 90543

Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.9	121.3
192	18.0	14.2	21.4

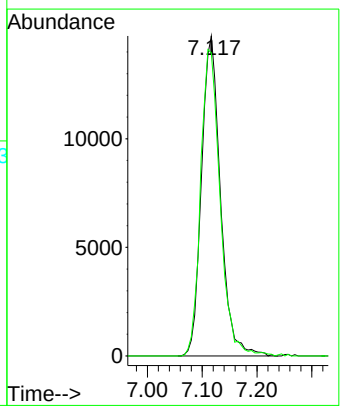


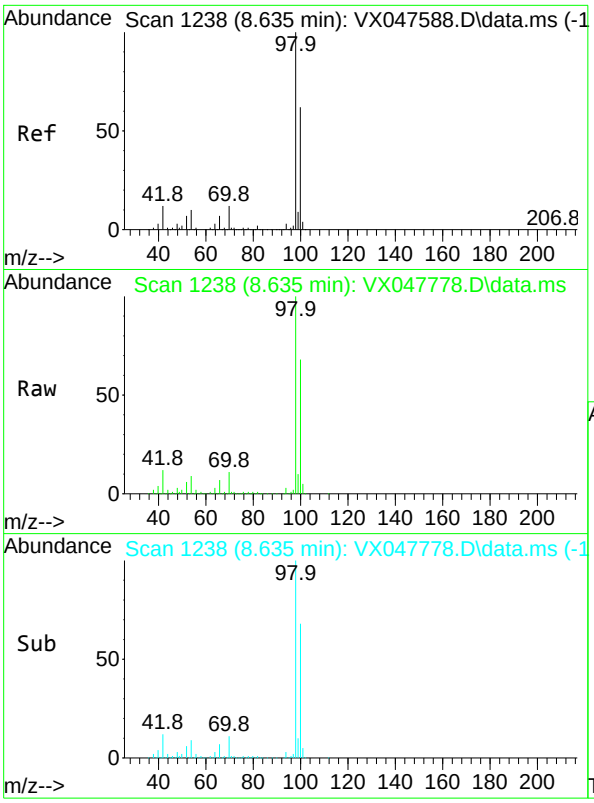


#44
Trichloroethene
Concen: 17.436 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Tgt Ion:130 Resp: 35328

Ion	Ratio	Lower	Upper
130	100		
95	94.7	0.0	210.8



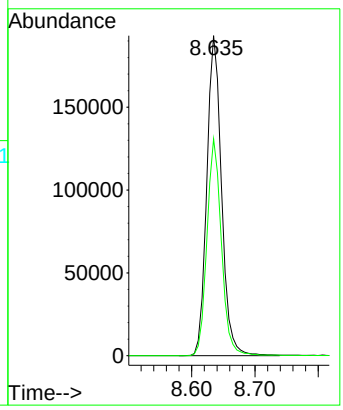


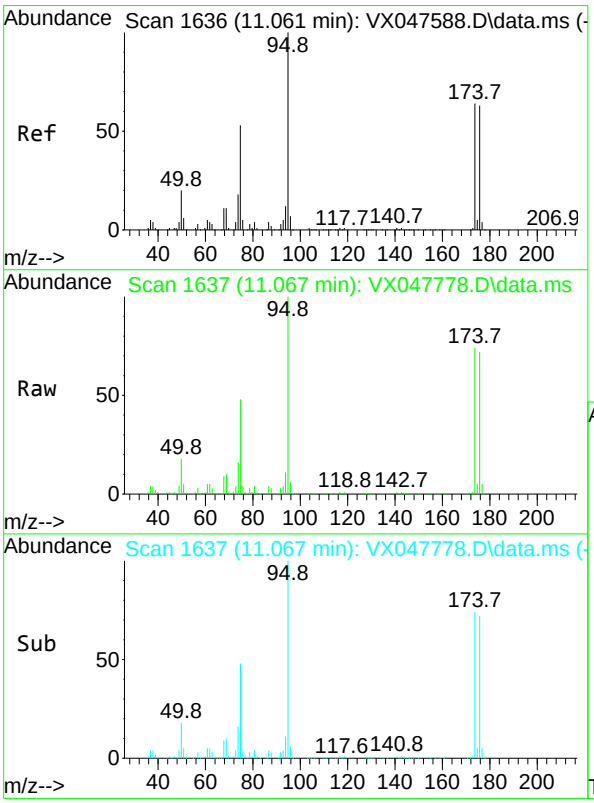
#50
Toluene-d8
Concen: 48.039 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912DL

Tgt Ion: 98 Resp: 313894

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4

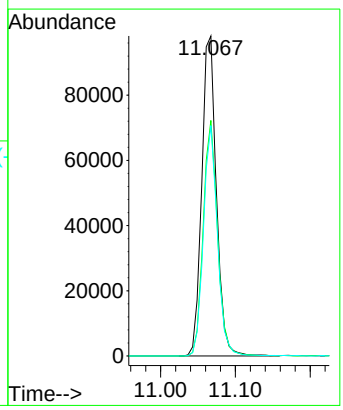


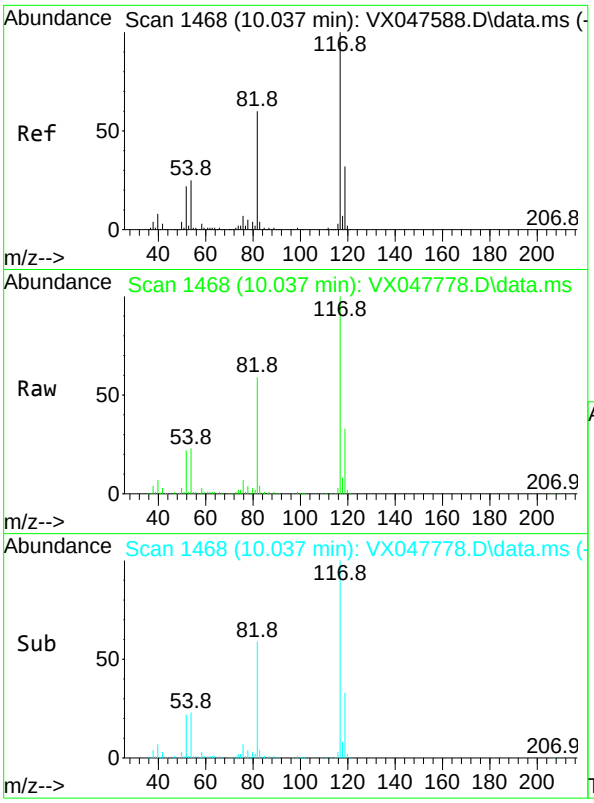


#62
4-Bromofluorobenzene
Concen: 53.897 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Tgt Ion: 95 Resp: 133656

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	141.6
176	68.8	0.0	138.4



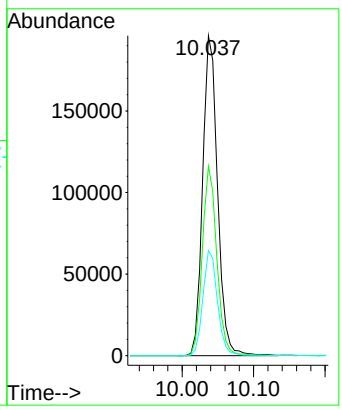


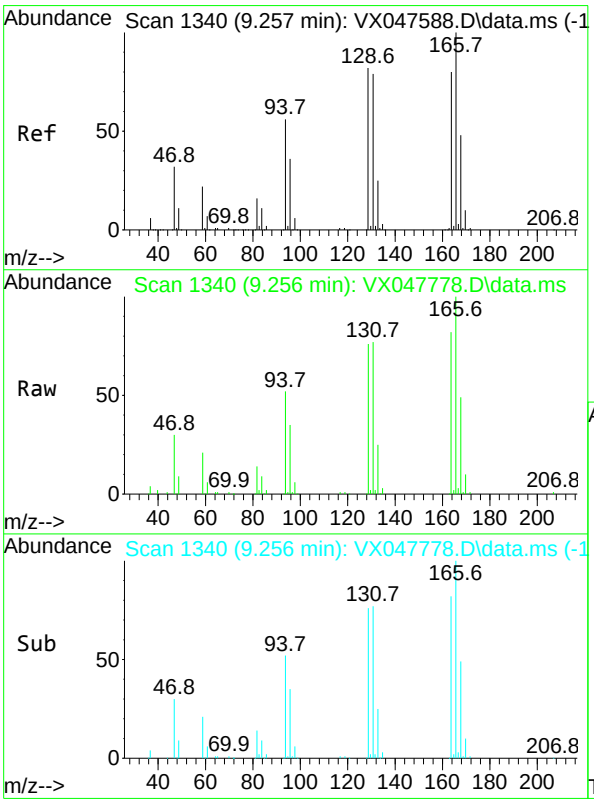
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:117 Resp: 283549

Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.8	71.6
119	32.9	25.2	37.8

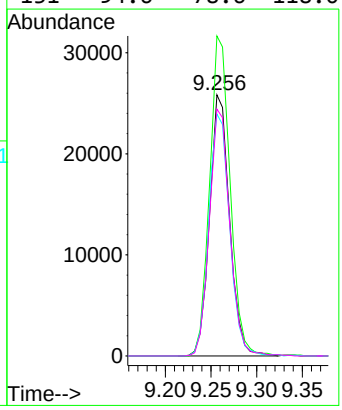


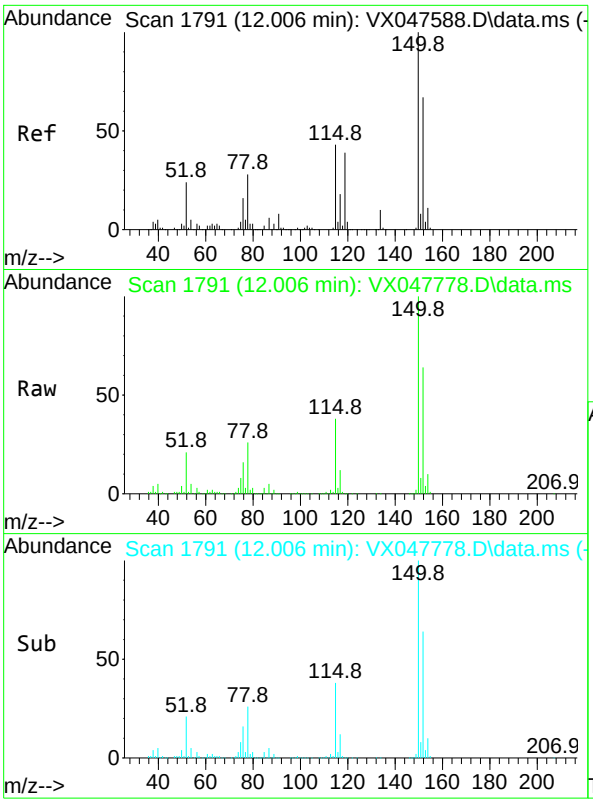


#64
Tetrachloroethene
Concen: 21.211 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Tgt Ion:164 Resp: 39207

Ion	Ratio	Lower	Upper
164	100		
166	122.6	100.2	150.2
129	92.7	81.8	122.6
131	94.6	78.6	118.0



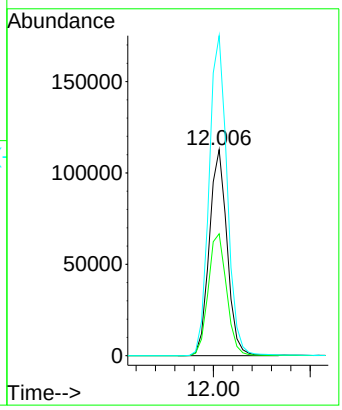


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047778.D
Acq: 24 Sep 2025 16:05

Instrument :
MSVOA_X
ClientSampleId :
RE134D3-20250912DL

Tgt Ion:152 Resp: 143934

Ion	Ratio	Lower	Upper
152	100		
115	61.6	44.9	134.5
150	158.2	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	EB01-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-26	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047699.D	1	09/22/25 13:25	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	EB01-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-26	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047699.D	1	09/22/25 13:25	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.3		81 - 118		95%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	46.8		89 - 112		94%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	188000	5.543				
540-36-3	1,4-Difluorobenzene	341000	6.75				
3114-55-4	Chlorobenzene-d5	311000	10.036				
3855-82-1	1,4-Dichlorobenzene-d4	150000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	EB01-20250912	SDG No.:	Q3097
Lab Sample ID:	Q3097-26	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047699.D	1	09/22/25 13:25	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047699.D
Acq On : 22 Sep 2025 13:25
Operator : JC/MD
Sample : Q3097-26
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB01-20250912

Quant Time: Sep 23 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

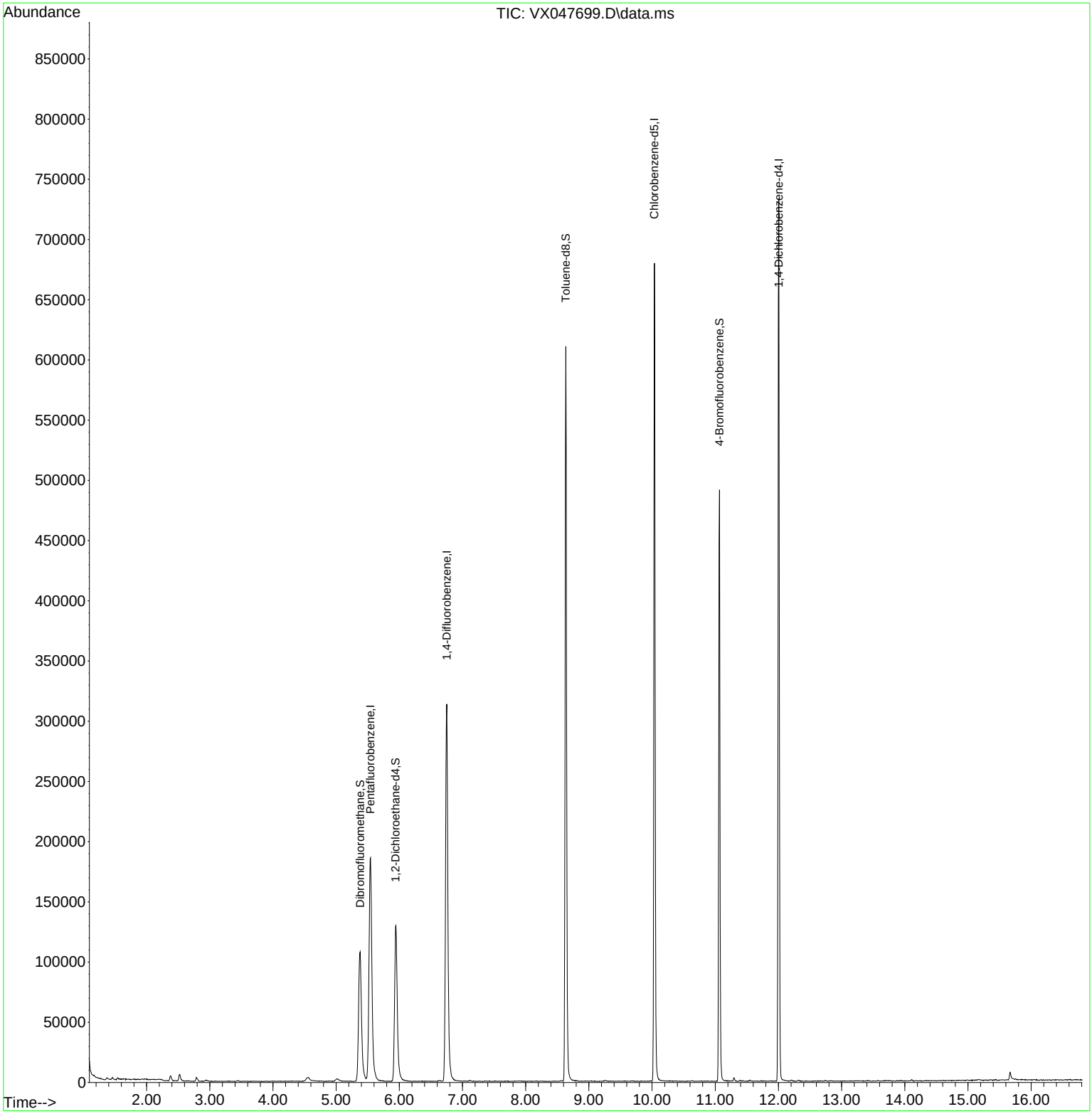
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	187967	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.750	114	340659	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.036	117	310536	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	150335	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	141569	47.316	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.640%		
35) Dibromofluoromethane	5.379	113	107254	46.946	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.900%		
50) Toluene-d8	8.634	98	370285	46.840	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	93.680%		
62) 4-Bromofluorobenzene	11.067	95	139707	46.566	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.140%		
Target Compounds						Qvalue

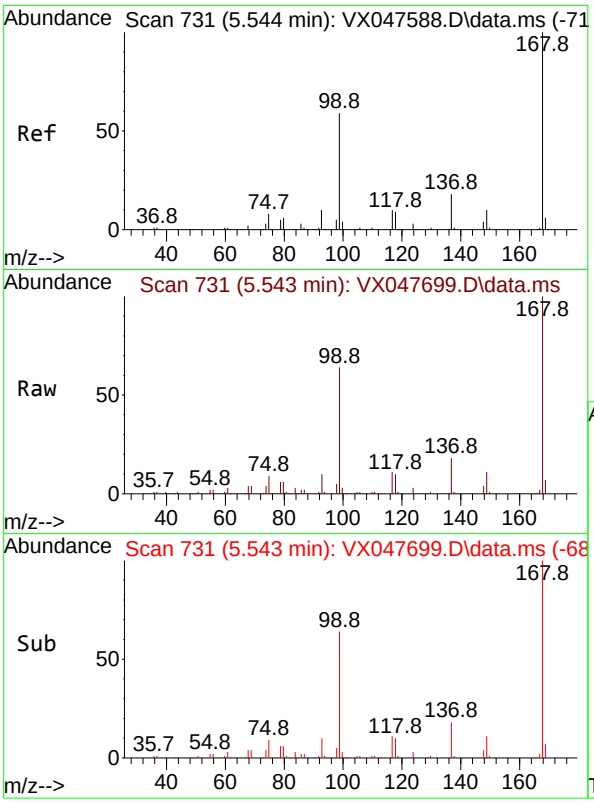
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047699.D
Acq On : 22 Sep 2025 13:25
Operator : JC/MD
Sample : Q3097-26
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB01-20250912

Quant Time: Sep 23 01:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



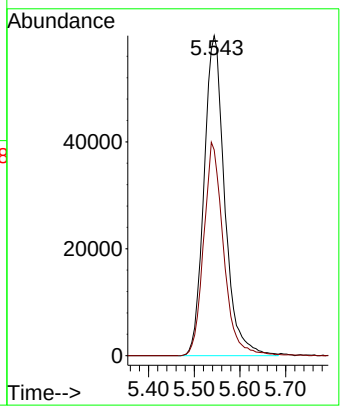


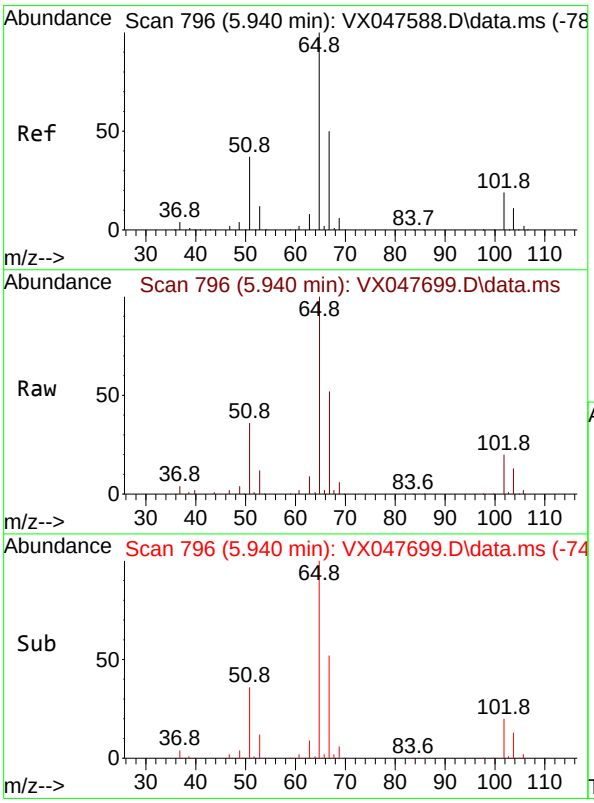
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX047699.D
Acq: 22 Sep 2025 13:25

Instrument :
MSVOA_X
ClientSampleId :
EB01-20250912

Tgt Ion:168 Resp: 187967

Ion	Ratio	Lower	Upper
168	100		
99	64.3	48.8	73.2

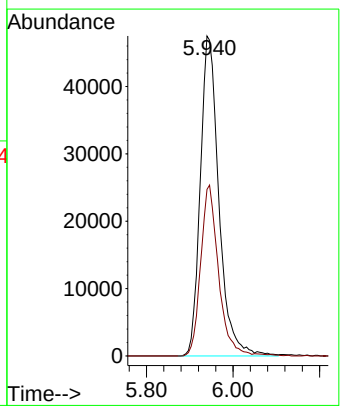


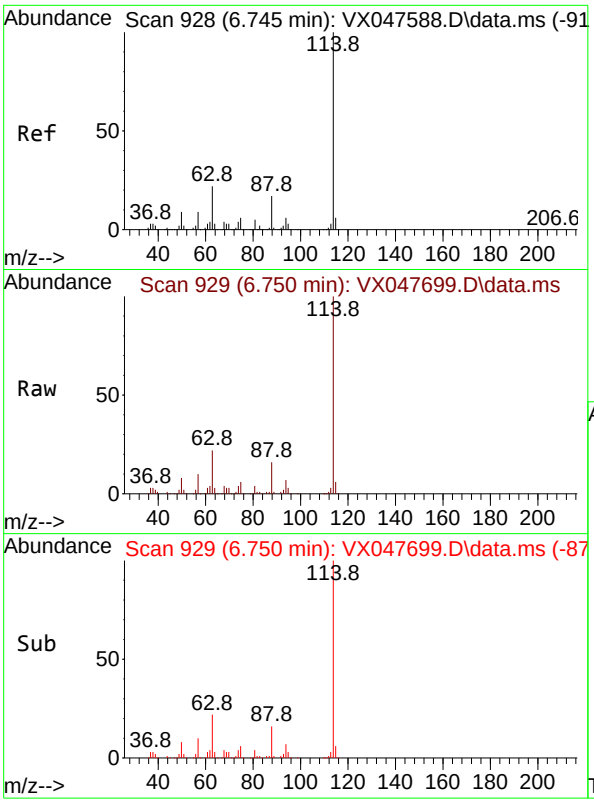


#33
1,2-Dichloroethane-d4
Concen: 47.316 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047699.D
Acq: 22 Sep 2025 13:25

Tgt Ion: 65 Resp: 141569

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	103.0



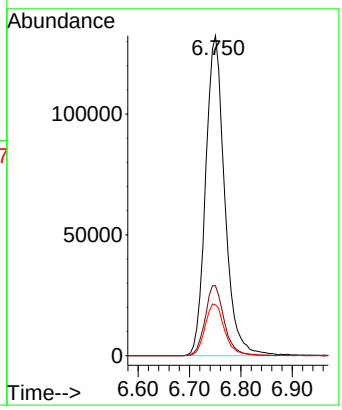


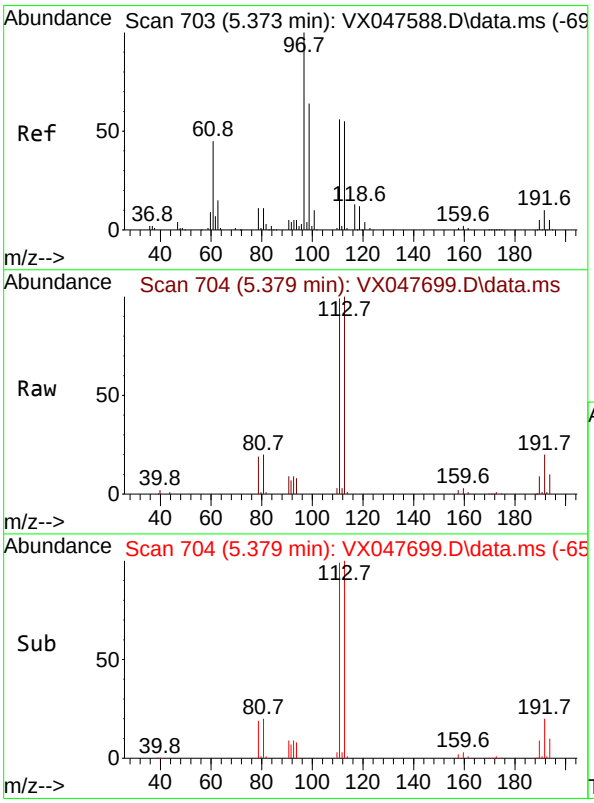
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.750 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047699.D
Acq: 22 Sep 2025 13:25

Instrument :
MSVOA_X
ClientSampleId :
EB01-20250912

Tgt Ion:114 Resp: 340659

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.0
88	15.9	0.0	34.2

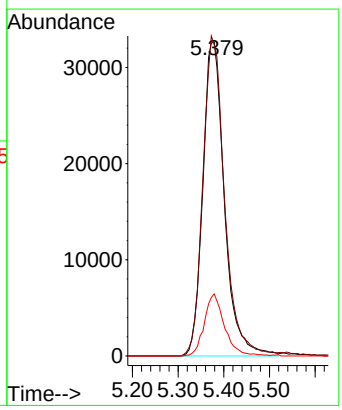


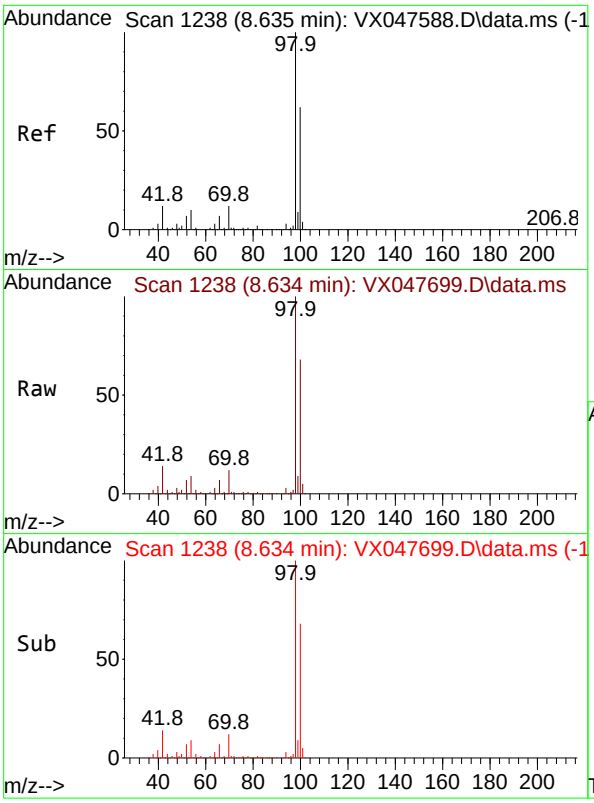


#35
Dibromofluoromethane
Concen: 46.946 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047699.D
Acq: 22 Sep 2025 13:25

Tgt Ion:113 Resp: 107254

Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.9	121.3
192	18.4	14.2	21.4



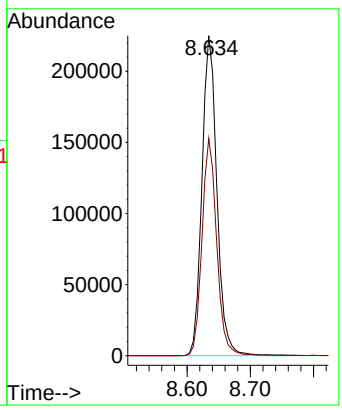


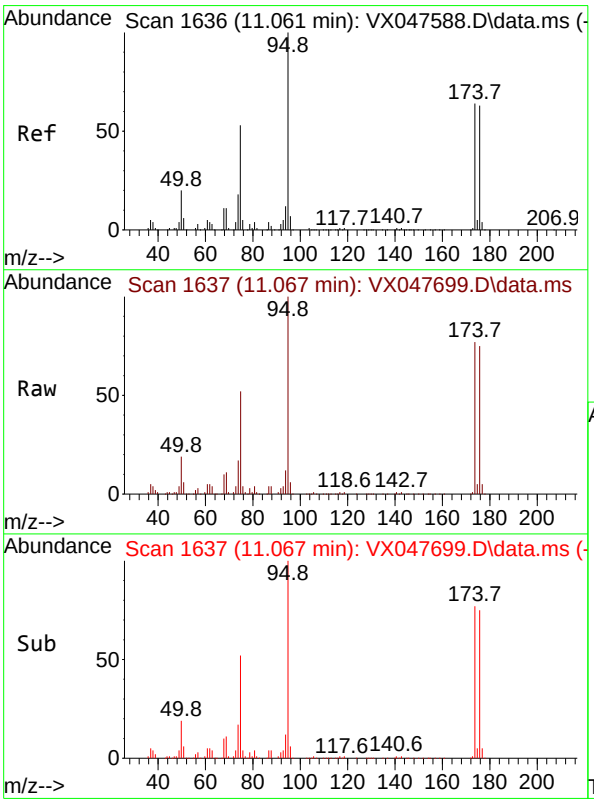
#50
Toluene-d8
Concen: 46.840 ug/l
RT: 8.634 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047699.D
Acq: 22 Sep 2025 13:25

Instrument :
MSVOA_X
ClientSampleId :
EB01-20250912

Tgt Ion: 98 Resp: 370285

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.0	79.4

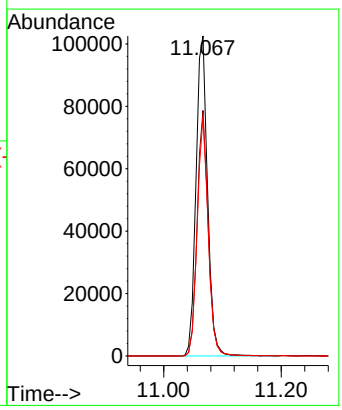


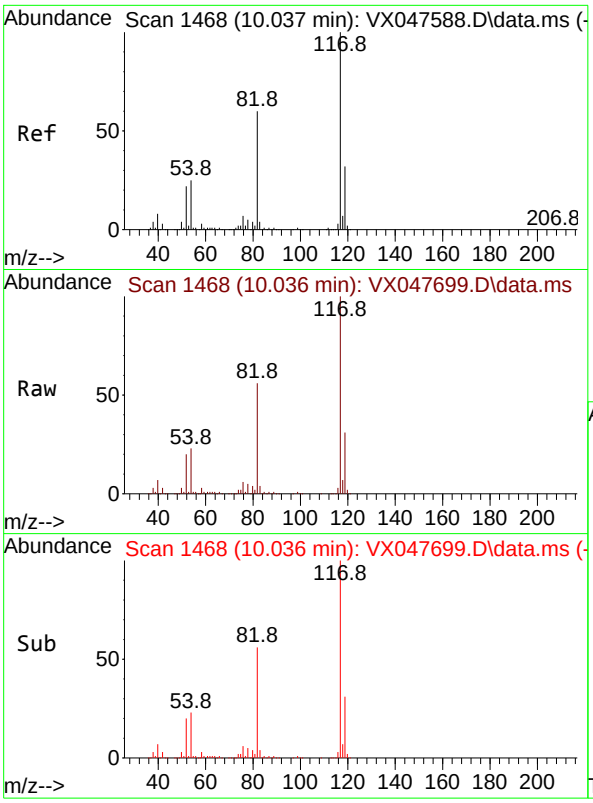


#62
4-Bromofluorobenzene
Concen: 46.566 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047699.D
Acq: 22 Sep 2025 13:25

Tgt Ion: 95 Resp: 139707

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	141.6
176	70.8	0.0	138.4



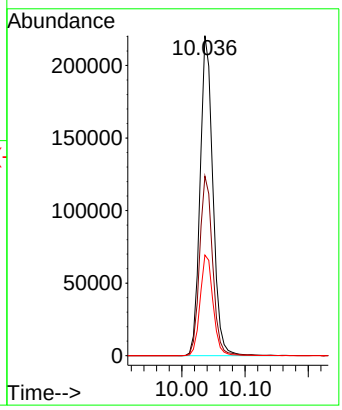


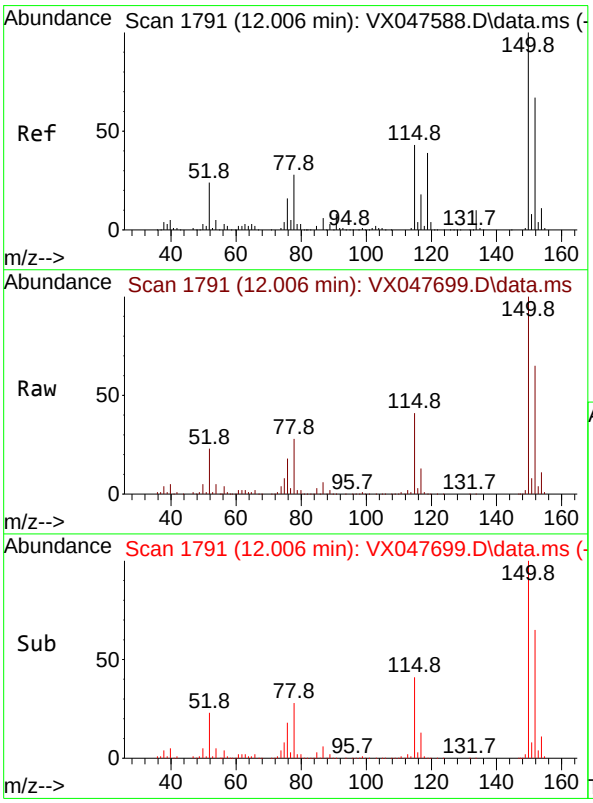
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.036 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047699.D
Acq: 22 Sep 2025 13:25

Instrument :
MSVOA_X
ClientSampleId :
EB01-20250912

Tgt Ion:117 Resp: 310536

Ion	Ratio	Lower	Upper
117	100		
82	56.1	47.8	71.6
119	31.4	25.2	37.8

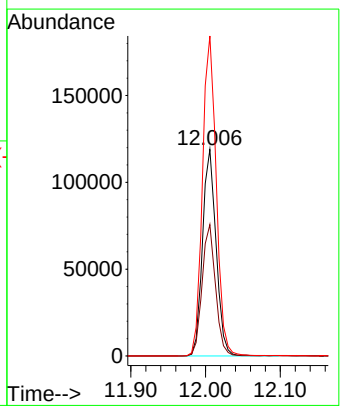




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047699.D
Acq: 22 Sep 2025 13:25

Tgt Ion:152 Resp: 150335

Ion	Ratio	Lower	Upper
152	100		
115	62.8	44.9	134.5
150	157.3	0.0	352.0



CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX047585.D RRF005 = VX047586.D RRF020 = VX047587.D
RRF050 = VX047588.D RRF100 = VX047589.D RRF150 = VX047590.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10
Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.9
Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.9
Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15
Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.4
Trichlorofluoromethane	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.5
1,1,2-Trichlorotrifluoroethane	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.2
1,1-Dichloroethene	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.7
Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.7
Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.8
Methyl tert-butyl Ether	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.5
Methyl Acetate	0.612	0.673	0.714	0.876	0.865	0.881	0.770	15.4
Methylene Chloride	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.5
trans-1,2-Dichloroethene	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.3
1,1-Dichloroethane	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.8
Cyclohexane		1.161	1.092	1.030	0.984	0.993	1.052	7.1
2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	9
Carbon Tetrachloride	0.482	0.574	0.555	0.539	0.526	0.518	0.532	6
cis-1,2-Dichloroethene	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.4
Bromochloromethane	0.457	0.607	0.450	0.577	0.587	0.630	0.551	14.2
Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.7
1,1,1-Trichloroethane	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.3
Methylcyclohexane	0.490	0.589	0.591	0.565	0.548	0.554	0.556	6.6
Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.1
1,2-Dichloroethane	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.8
Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.9
1,2-Dichloropropane	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.4
Bromodichloromethane	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.7
4-Methyl-2-Pentanone	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.3
Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX047585.D RRF005 = VX047586.D RRF020 = VX047587.D
RRF050 = VX047588.D RRF100 = VX047589.D RRF150 = VX047590.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.3
cis-1,3-Dichloropropene	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.7
1,1,2-Trichloroethane	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.1
2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.8
Dibromochloromethane	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.5
1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.1
Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6
Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.2
Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.6
m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.8
o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.1
Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.7
Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.4
Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.9
1,1,2,2-Tetrachloroethane	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.2
1,3-Dichlorobenzene	1.462	1.800	1.829	1.817	1.768	1.758	1.739	8
1,4-Dichlorobenzene	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.5
1,2-Dichlorobenzene	1.359	1.691	1.757	1.746	1.696	1.692	1.657	9
1,2-Dibromo-3-Chloropropane	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.1
1,2,4-Trichlorobenzene	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.3
1,2,3-Trichlorobenzene	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.7
1,2-Dichloroethane-d4		0.884	0.647	0.770	0.815	0.863	0.796	11.8
Dibromofluoromethane		0.356	0.266	0.331	0.355	0.368	0.335	12.3
Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.1
4-Bromofluorobenzene		0.478	0.360	0.427	0.452	0.484	0.440	11.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025
Response Via : Initial Calibration

Calibration Files
1 =VX047585.D 5 =VX047586.D 20 =VX047587.D 50 =VX047588.D 100 =VX047589.D 150 =VX047590.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10.01
3)	P	Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.92
4)	C	Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.87#
5)	T	Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15.01
6)	T	Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.36
7)	T	Trichlorofluor...	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.49
8)	T	Diethyl Ether	0.372	0.405	0.413	0.409	0.420	0.409	0.405	4.17
9)	T	1,1,2-Trichlor...	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.21
10)	T	Methyl Iodide		0.865	0.922	0.911	0.925	0.886	0.902	2.85
11)	T	Tert butyl alc...		0.085	0.086	0.089	0.090	0.094	0.089	4.18
12)	CM	1,1-Dichloroet...	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.71#
13)	T	Acrolein		0.071	0.069	0.082	0.089	0.097	0.082	14.59
14)	T	Allyl chloride	1.194	1.267	1.249	1.211	1.226	1.207	1.226	2.25
15)	T	Acrylonitrile	0.264	0.329	0.343	0.347	0.343	0.344	0.328	9.82
16)	T	Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.67
17)	T	Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.80
18)	T	Methyl Acetate	0.612	0.673	0.714	0.876	0.865	0.881	0.770	15.39
19)	T	Methyl tert-bu...	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.47
20)	T	Methylene Chlo...	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.45
21)	T	trans-1,2-Dich...	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.28
22)	T	Diisopropyl ether	1.976	2.531	2.487	2.477	2.398	2.384	2.376	8.56
23)	T	Vinyl Acetate	1.541	1.937	2.020	1.992	1.958	1.961	1.901	9.41
24)	P	1,1-Dichloroet...	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.81
25)	T	2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	8.98
26)	T	2,2-Dichloropr...	0.945	1.096	1.074	1.068	1.055	1.060	1.050	5.06
27)	T	cis-1,2-Dichlo...	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.41
28)	T	Bromochloromet...	0.457	0.607	0.450	0.577	0.587	0.630	0.551	14.18
29)	T	Tetrahydrofuran	0.211	0.269	0.272	0.275	0.262	0.268	0.260	9.24
30)	C	Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.72#
31)	T	Cyclohexane		1.161	1.092	1.030	0.984	0.993	1.052	7.08
32)	T	1,1,1-Trichlor...	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.33
33)	S	1,2-Dichloroet...		0.884	0.647	0.770	0.815	0.863	0.796	11.82
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.356	0.266	0.331	0.355	0.368	0.335	12.25
36)	T	1,1-Dichloropr...	0.484	0.520	0.508	0.487	0.471	0.469	0.490	4.15
37)	T	Ethyl Acetate	0.429	0.561	0.554	0.532	0.533	0.539	0.525	9.21
38)	T	Carbon Tetrach...	0.482	0.574	0.555	0.539	0.526	0.518	0.532	5.99
39)	T	Methylcyclohexane	0.490	0.589	0.591	0.565	0.548	0.554	0.556	6.60
40)	TM	Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.11
41)	T	Methacrylonitrile	0.236	0.264	0.286	0.286	0.282	0.271	0.271	7.13
42)	TM	1,2-Dichloroet...	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.76
43)	T	Isopropyl Acetate	0.751	0.882	0.889	0.897	0.865	0.879	0.860	6.34
44)	TM	Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.92
45)	C	1,2-Dichloropr...	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.37#
46)	T	Dibromomethane	0.248	0.285	0.289	0.288	0.276	0.277	0.277	5.54
47)	T	Bromodichlorom...	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.65
48)	T	Methyl methacr...	0.372	0.421	0.447	0.449	0.436	0.446	0.429	6.97
49)	T	1,4-Dioxane	0.003	0.004	0.004	0.005	0.005	0.005	0.004	19.43
50)	S	Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.10
51)	T	4-Methyl-2-Pen...	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.28
52)	CM	Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.22#
53)	T	t-1,3-Dichloro...	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.33
54)	T	cis-1,3-Dichlo...	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.74
55)	T	1,1,2-Trichlor...	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.10
56)	T	Ethyl methacry...	0.407	0.563	0.587	0.599	0.580	0.595	0.555	13.25

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X091625W.M

57)	T	1,3-Dichloropr...	0.507	0.648	0.636	0.638	0.607	0.609	0.607	8.51
58)	T	2-Chloroethyl ...	0.094	0.212	0.210	0.272	0.280	0.292	0.227	32.65
59)	T	2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.82
60)	T	Dibromochlorom...	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.49
61)	T	1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.10
62)	S	4-Bromofluorob...		0.478	0.360	0.427	0.452	0.484	0.440	11.42
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6.03
65)	PM	Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.18
66)	T	1,1,1,2-Tetrac...	0.327	0.404	0.402	0.414	0.404	0.402	0.392	8.26
67)	C	Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.57#
68)	T	m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.77
69)	T	o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.13
70)	T	Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.70
71)	P	Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.37
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.94
74)	T	N-amyl acetate	1.277	1.726	1.851	1.862	1.834	1.850	1.733	13.21
75)	P	1,1,2,2-Tetrac...	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.16
76)	T	1,2,3-Trichlor...	0.847	1.023	1.073	1.128	0.939	1.064	1.012	10.13
77)	T	Bromobenzene	0.760	0.964	0.992	0.988	0.960	0.954	0.936	9.38
78)	T	n-propylbenzene	3.680	4.667	4.739	4.792	4.581	4.504	4.494	9.17
79)	T	2-Chlorotoluene	2.276	2.859	2.935	2.915	2.798	2.730	2.752	8.91
80)	T	1,3,5-Trimethy...	2.458	3.235	3.311	3.343	3.221	3.171	3.123	10.62
81)	T	trans-1,4-Dich...		0.347	0.381	0.414	0.420	0.424	0.397	8.31
82)	T	4-Chlorotoluene	2.754	3.347	3.410	3.433	3.285	3.275	3.251	7.74
83)	T	tert-Butylbenzene	2.800	3.223	3.346	3.359	3.240	3.215	3.197	6.39
84)	T	1,2,4-Trimethy...	2.522	3.302	3.381	3.344	3.234	3.216	3.166	10.17
85)	T	sec-Butylbenzene	3.110	4.001	3.945	4.028	3.867	3.834	3.797	9.09
86)	T	p-Isopropyltol...	2.660	3.372	3.371	3.419	3.263	3.205	3.215	8.81
87)	T	1,3-Dichlorobe...	1.462	1.800	1.829	1.817	1.768	1.758	1.739	7.95
88)	T	1,4-Dichlorobe...	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.47
89)	T	n-Butylbenzene	2.429	3.070	3.114	3.139	3.098	2.999	2.975	9.14
90)	T	Hexachloroethane	0.434	0.565	0.574	0.593	0.606	0.614	0.564	11.81
91)	T	1,2-Dichlorobe...	1.359	1.691	1.757	1.746	1.696	1.692	1.657	8.97
92)	T	1,2-Dibromo-3-...	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.07
93)	T	1,2,4-Trichlor...	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.34
94)	T	Hexachlorobuta...	0.341	0.377	0.361	0.384	0.377	0.354	0.366	4.51
95)	T	Naphthalene	2.503	3.153	3.410	3.539	3.496	3.571	3.279	12.46
96)	T	1,2,3-Trichlor...	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.72

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	246348	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	451502	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	410953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	201976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount 50.000	Range 78 - 117		Recovery =	0.000%#		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#		
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount 50.000	Range 92 - 112		Recovery =	0.000%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000	Range 83 - 123		Recovery =	0.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	2201	0.863	ug/l	96
3) Chloromethane	1.300	50	3006	0.897	ug/l #	82
4) Vinyl Chloride	1.386	62	2818	0.859	ug/l	95
6) Chloroethane	1.697	64	2134	0.973	ug/l	95
7) Trichlorofluoromethane	1.898	101	4261	0.874	ug/l	88
8) Diethyl Ether	2.130	74	1831	0.919	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	2555	0.897	ug/l	93
12) 1,1-Dichloroethene	2.325	96	2594	0.886	ug/l #	80
14) Allyl chloride	2.666	41	5885	0.974	ug/l	94
15) Acrylonitrile	3.062	53	6500	4.018	ug/l	97
16) Acetone	2.380	43	8444	4.953	ug/l	99
17) Carbon Disulfide	2.520	76	7662	0.956	ug/l #	91
18) Methyl Acetate	2.703	43	3013	0.794	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	9281	0.869	ug/l #	89
20) Methylene Chloride	2.788	84	3540	0.981	ug/l	93
21) trans-1,2-Dichloroethene	3.099	96	2676	0.849	ug/l	95
22) Diisopropyl ether	3.751	45	9738	0.832	ug/l #	87
23) Vinyl Acetate	3.715	43	37962	4.052	ug/l	97
24) 1,1-Dichloroethane	3.611	63	5372	0.863	ug/l	95
25) 2-Butanone	4.550	43	9105	4.281	ug/l #	83
26) 2,2-Dichloropropane	4.477	77	4657	0.901	ug/l	77
27) cis-1,2-Dichloroethene	4.477	96	3440	0.891	ug/l	96
28) Bromochloromethane	4.879	49	2251	0.829	ug/l #	93
29) Tetrahydrofuran	4.995	42	5210	4.072	ug/l	98
30) Chloroform	5.074	83	5093	0.810	ug/l	86
32) 1,1,1-Trichloroethane	5.373	97	4439	0.832	ug/l #	47
36) 1,1-Dichloropropene	5.672	75	4373	0.988	ug/l #	69
37) Ethyl Acetate	4.702	43	3873	0.818	ug/l #	91
38) Carbon Tetrachloride	5.659	117	4349	0.905	ug/l	95
39) Methylcyclohexane	7.360	83	4428	0.882	ug/l	94
40) Benzene	6.025	78	12012	0.894	ug/l	98
41) Methacrylonitrile	4.903	41	2128	0.870	ug/l #	63
42) 1,2-Dichloroethane	6.062	62	4634	0.906	ug/l	80
43) Isopropyl Acetate	6.318	43	6784	0.873	ug/l	94
44) Trichloroethene	7.110	130	2677	0.824	ug/l	78
45) 1,2-Dichloropropane	7.415	63	2945	0.856	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.574	93	2240	0.895	ug/l		94
47) Bromodichloromethane	7.805	83	4167	0.806	ug/l	#	92
48) Methyl methacrylate	7.683	41	3355	0.867	ug/l	#	87
49) 1,4-Dioxane	7.653	88	488m	12.477	ug/l		
51) 4-Methyl-2-Pentanone	8.555	43	17596	4.085	ug/l		95
52) Toluene	8.708	92	7595	0.917	ug/l		92
53) t-1,3-Dichloropropene	8.964	75	4398	0.834	ug/l	#	82
54) cis-1,3-Dichloropropene	8.354	75	4635	0.823	ug/l	#	76
55) 1,1,2-Trichloroethane	9.134	97	2918	0.914	ug/l		95
56) Ethyl methacrylate	9.104	69	3679	0.734	ug/l	#	84
57) 1,3-Dichloropropane	9.293	76	4580	0.835	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	4222	9.665	ug/l		99
59) 2-Hexanone	9.415	43	12385	4.003	ug/l		98
60) Dibromochloromethane	9.506	129	2903	0.789	ug/l		87
61) 1,2-Dibromoethane	9.592	107	2596	0.798	ug/l		96
64) Tetrachloroethene	9.256	164	2457	0.917	ug/l		83
65) Chlorobenzene	10.061	112	8202	0.879	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.140	131	2684	0.833	ug/l	#	66
67) Ethyl Benzene	10.177	91	13360	0.829	ug/l		98
68) m/p-Xylenes	10.287	106	9922	1.655	ug/l		99
69) o-Xylene	10.622	106	4734	0.816	ug/l		94
70) Styrene	10.640	104	8377	0.824	ug/l		96
71) Bromoform	10.787	173	1816	0.755	ug/l	#	94
73) Isopropylbenzene	10.945	105	12618	0.822	ug/l		96
74) N-amyl acetate	10.829	43	5159	0.737	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.195	83	3900	0.839	ug/l		96
76) 1,2,3-Trichloropropane	11.225	75	3421m	0.816	ug/l		
77) Bromobenzene	11.183	156	3069	0.811	ug/l		98
78) n-propylbenzene	11.286	91	14866	0.819	ug/l		99
79) 2-Chlorotoluene	11.347	91	9195	0.827	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	9929	0.787	ug/l		99
82) 4-Chlorotoluene	11.439	91	11123	0.847	ug/l		95
83) tert-Butylbenzene	11.695	119	11311	0.876	ug/l		97
84) 1,2,4-Trimethylbenzene	11.731	105	10187	0.796	ug/l		100
85) sec-Butylbenzene	11.872	105	12561	0.819	ug/l		99
86) p-Isopropyltoluene	11.994	119	10744	0.827	ug/l		92
87) 1,3-Dichlorobenzene	11.951	146	5907	0.841	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	6341m	0.880	ug/l		
89) n-Butylbenzene	12.317	91	9811	0.816	ug/l		97
90) Hexachloroethane	12.524	117	1752	0.768	ug/l		97
91) 1,2-Dichlorobenzene	12.317	146	5491	0.820	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	698	0.742	ug/l		93
93) 1,2,4-Trichlorobenzene	13.567	180	3358	0.772	ug/l		95
94) Hexachlorobutadiene	13.707	225	1378	0.933	ug/l		93
95) Naphthalene	13.756	128	10112	0.763	ug/l		98
96) 1,2,3-Trichlorobenzene	13.944	180	3043	0.752	ug/l		98

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

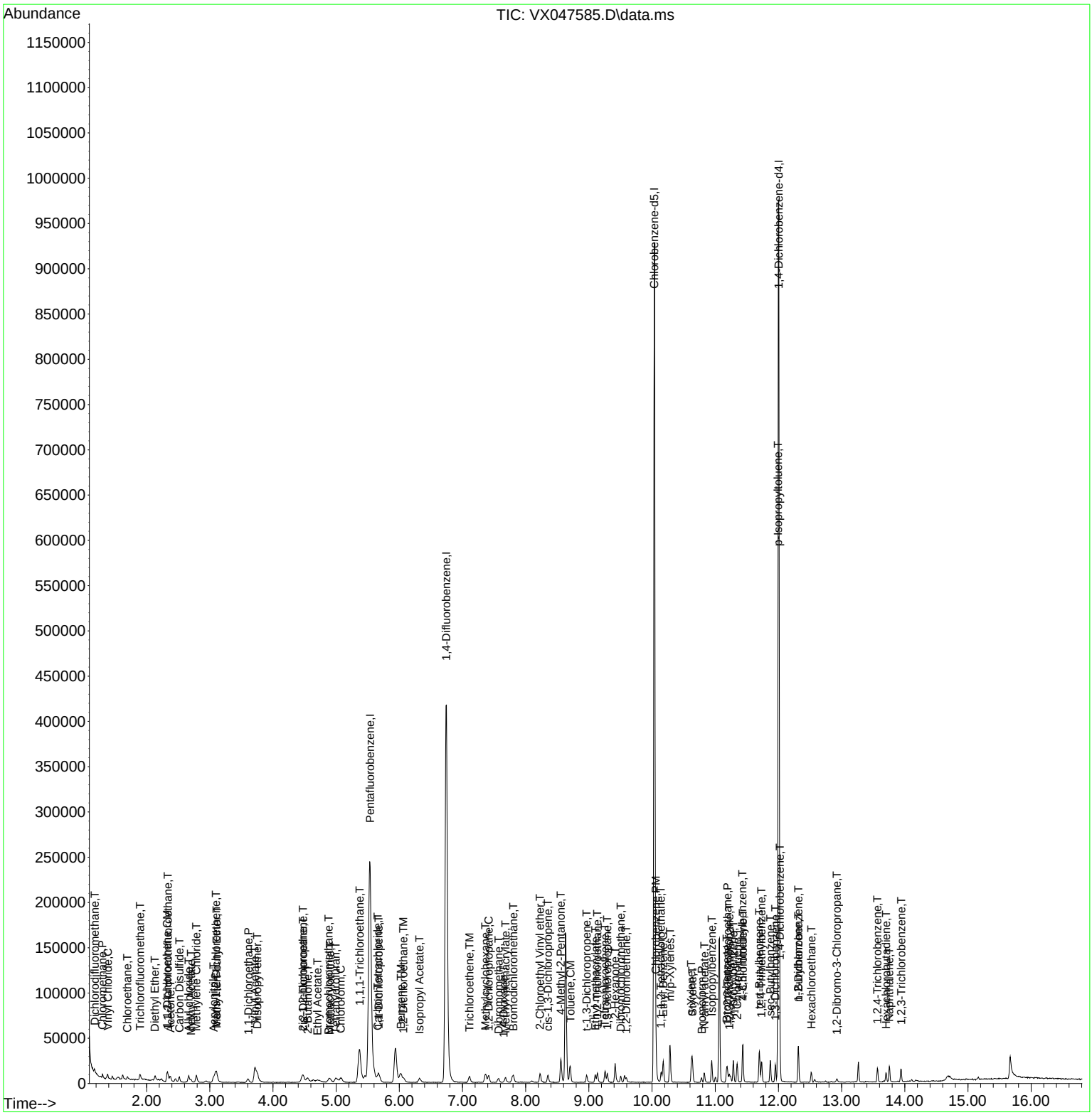
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

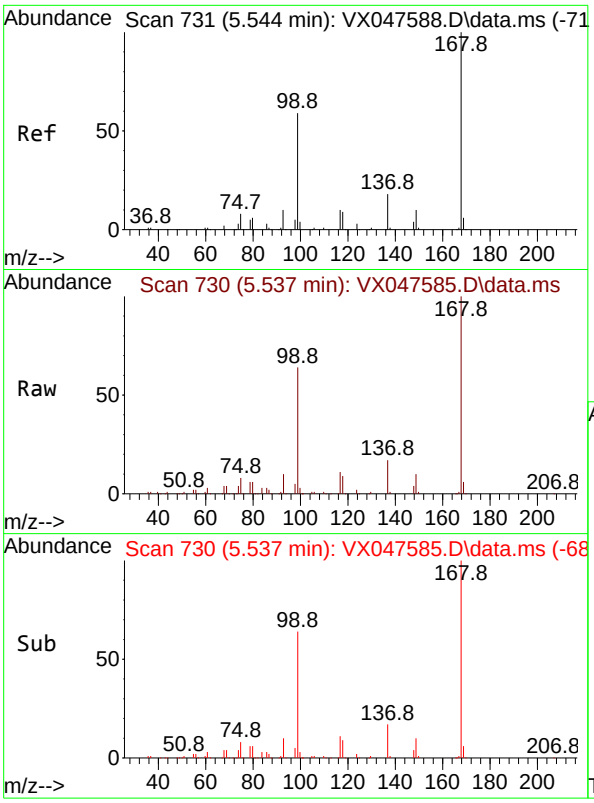
Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

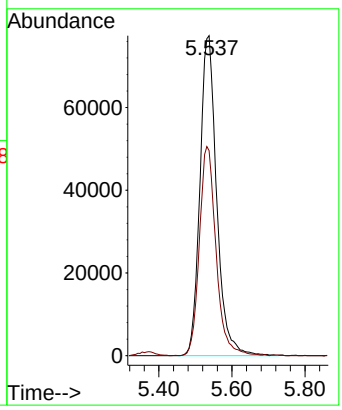




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:168 Resp: 24634

Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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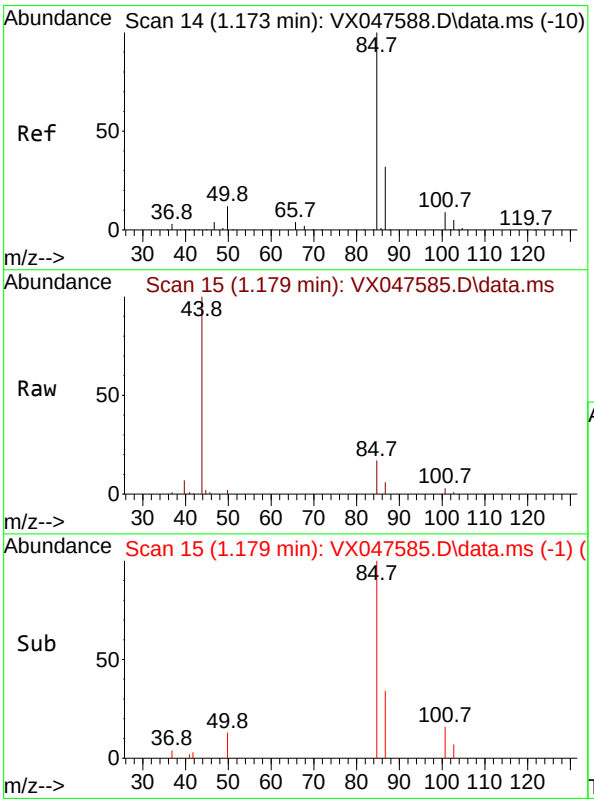
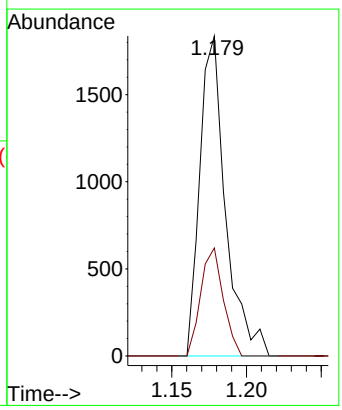
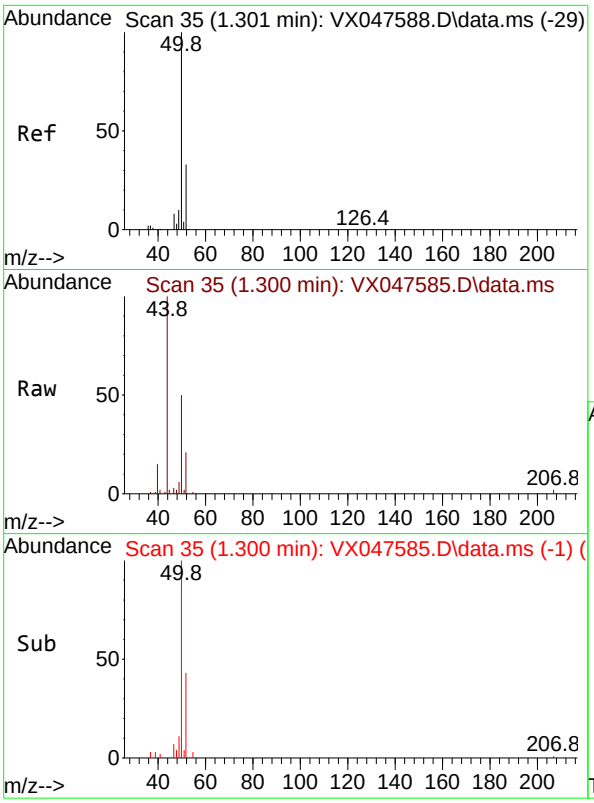


#2
Dichlorodifluoromethane
Concen: 0.863 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 85 Resp: 2201

Ion	Ratio	Lower	Upper
85	100		
87	33.8	15.8	47.3

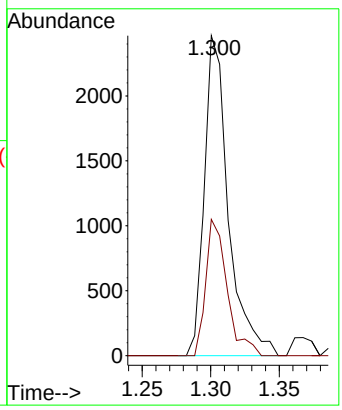




#3
Chloromethane
Concen: 0.897 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 50 Resp: 300

Ion	Ratio	Lower	Upper
50	100		
52	42.6	26.1	39.1#



Instrument :
MSVOA_X
ClientSampleId :
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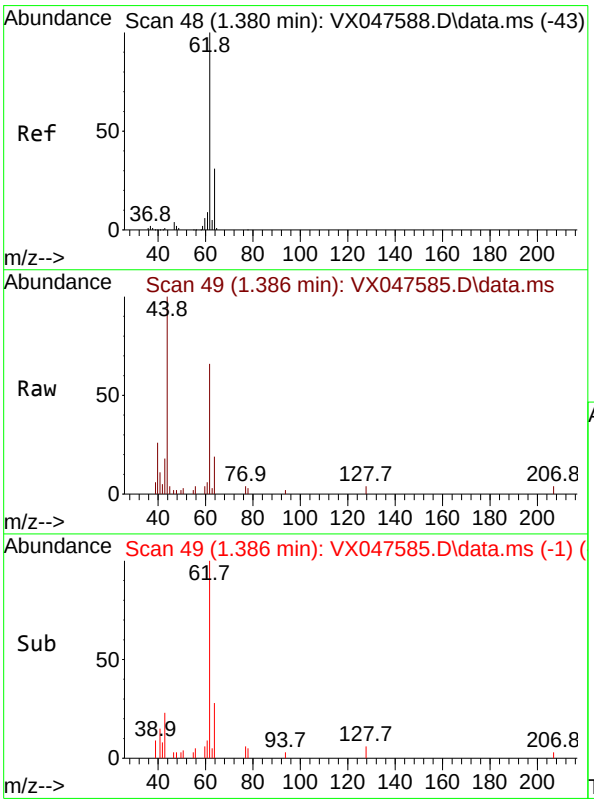
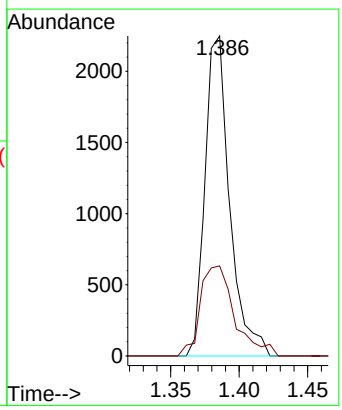
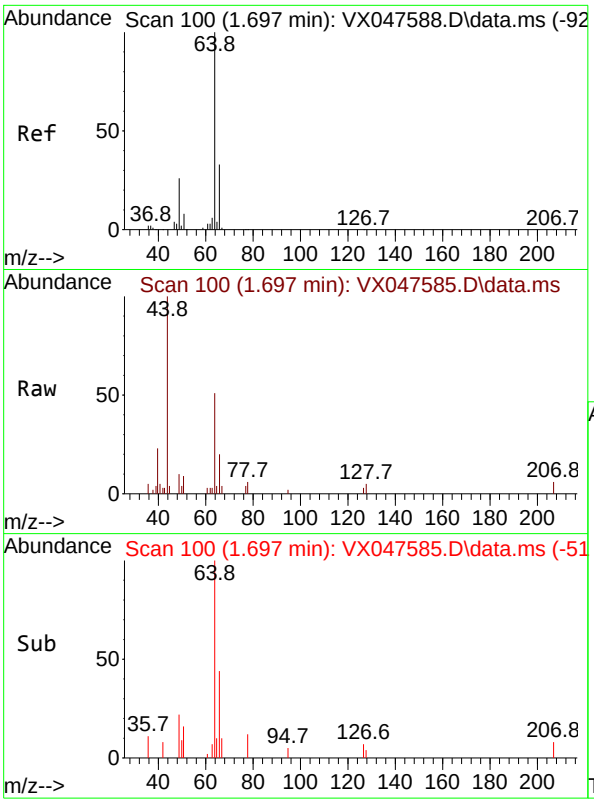


#4
Vinyl Chloride
Concen: 0.859 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 2818

Ion	Ratio	Lower	Upper
62	100		
64	28.2	24.9	37.3

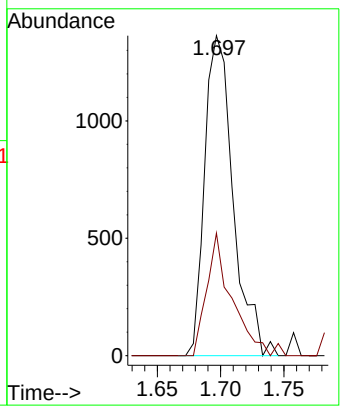




#6
Chloroethane
Concen: 0.973 ug/l
RT: 1.697 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 64 Resp: 213

Ion	Ratio	Lower	Upper
64	100		
66	35.4	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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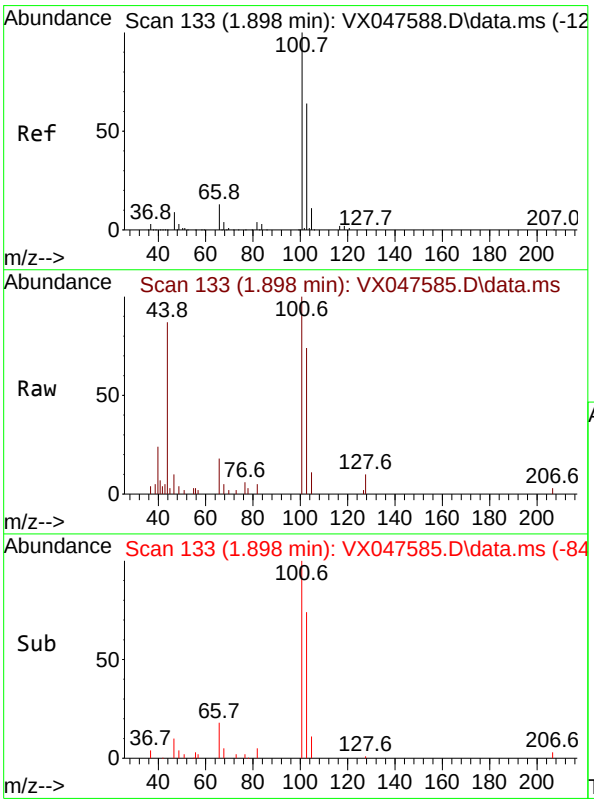
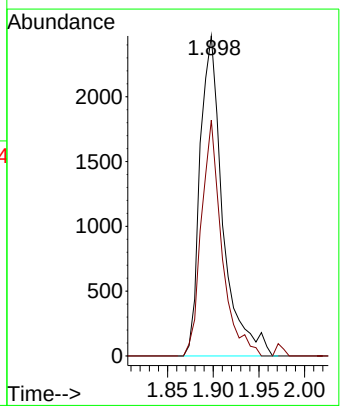
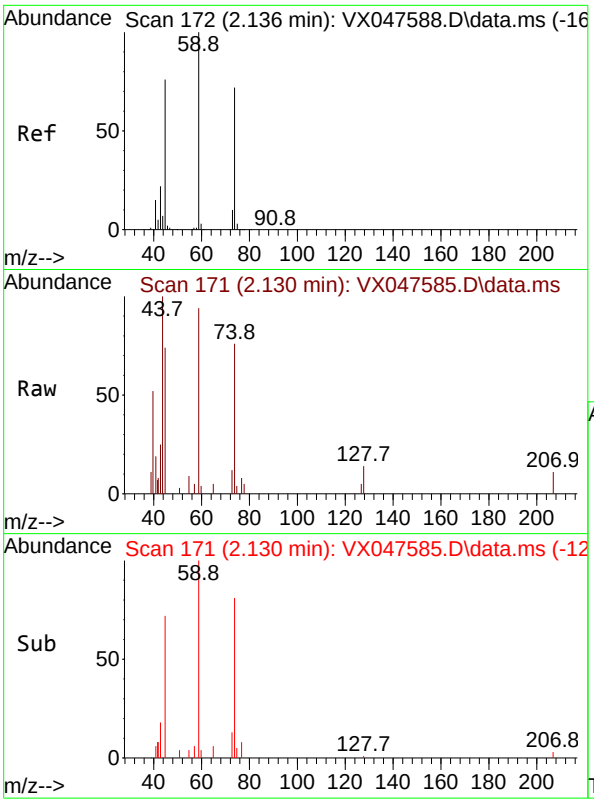


#7
Trichlorofluoromethane
Concen: 0.874 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:101 Resp: 4261

Ion	Ratio	Lower	Upper
101	100		
103	73.7	51.4	77.2





#8
Diethyl Ether
Concen: 0.919 ug/l
RT: 2.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 74 Resp: 183

Ion	Ratio	Lower	Upper
74	100		
45	102.2	52.3	156.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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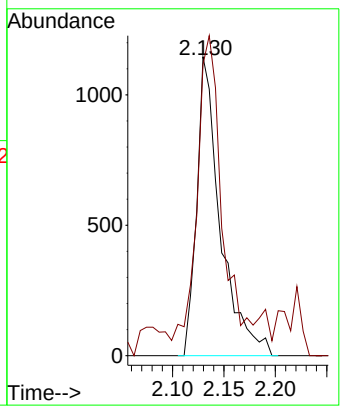
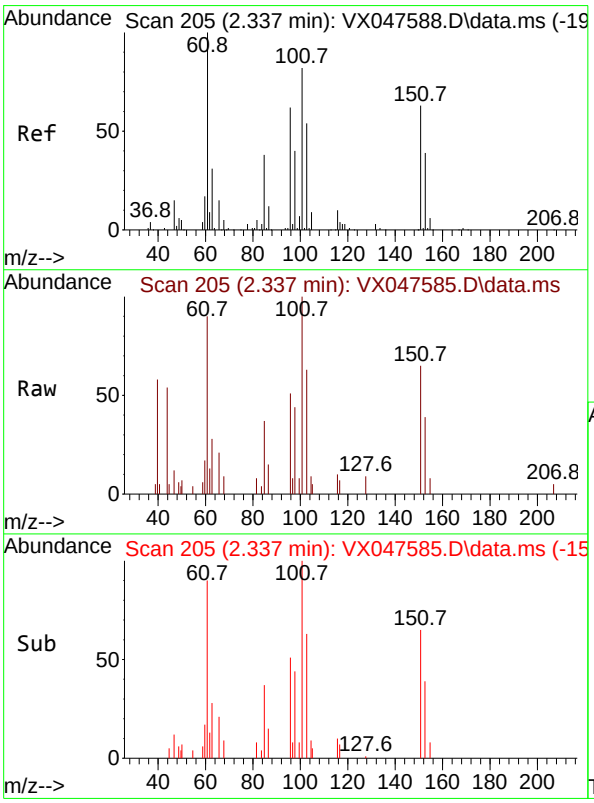
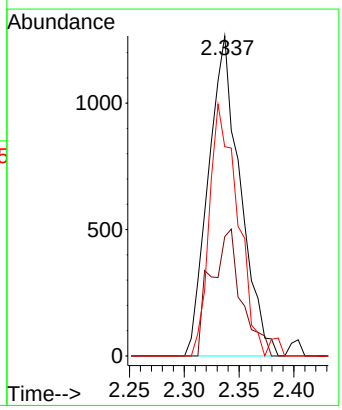


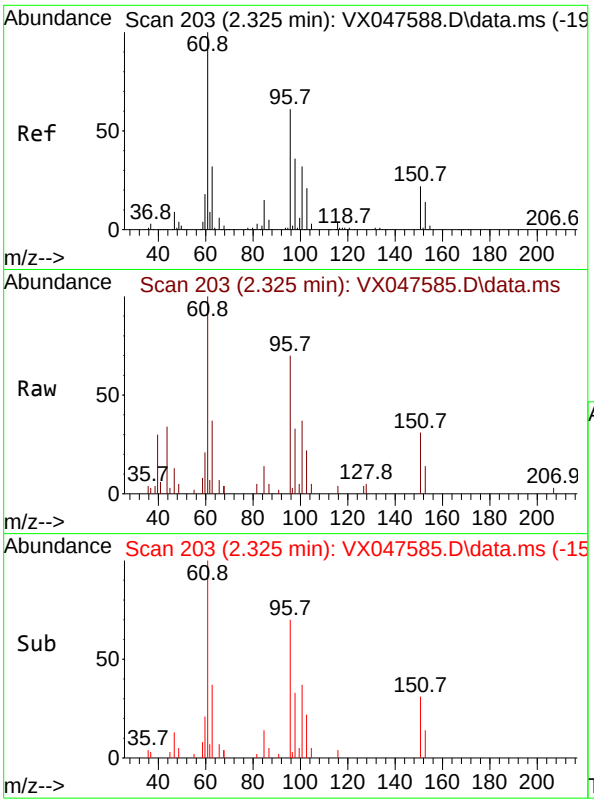


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.897 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:101 Resp: 2555

Ion	Ratio	Lower	Upper
101	100		
85	37.8	35.5	53.3
151	69.9	59.4	89.0

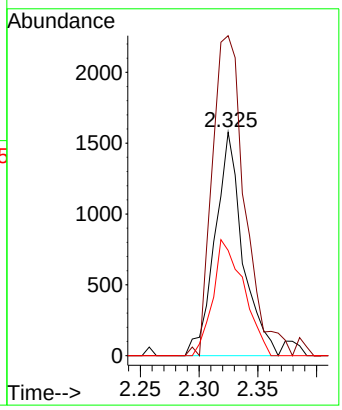




#12
1,1-Dichloroethene
Concen: 0.886 ug/l
RT: 2.325 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 259

Ion	Ratio	Lower	Upper
96	100		
61	137.3	131.0	196.6
98	45.2	47.7	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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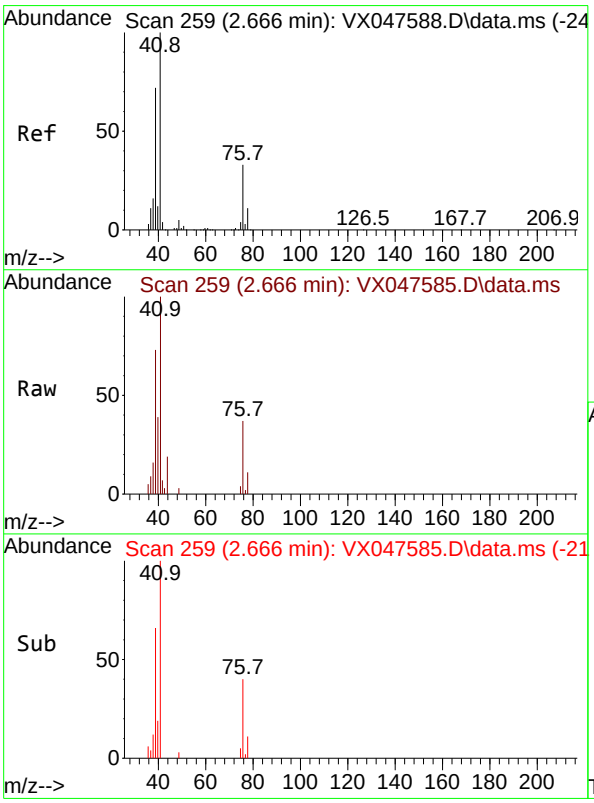
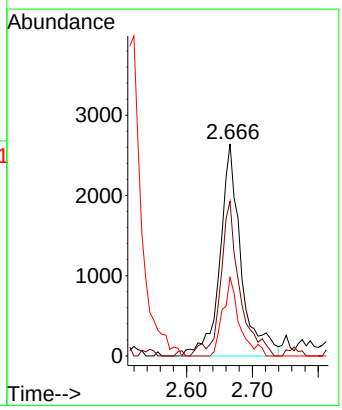
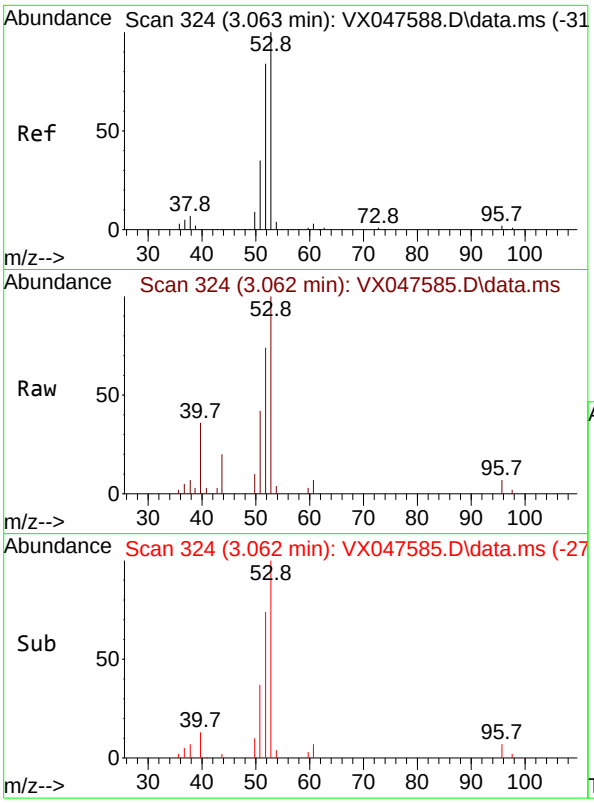


#14
Allyl chloride
Concen: 0.974 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 5885

Ion	Ratio	Lower	Upper
41	100		
39	63.3	54.7	82.1
76	29.3	25.7	38.5

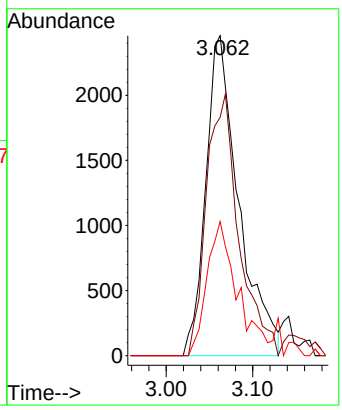




#15
Acrylonitrile
Concen: 4.018 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 53 Resp: 650

Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.4	99.6
51	38.7	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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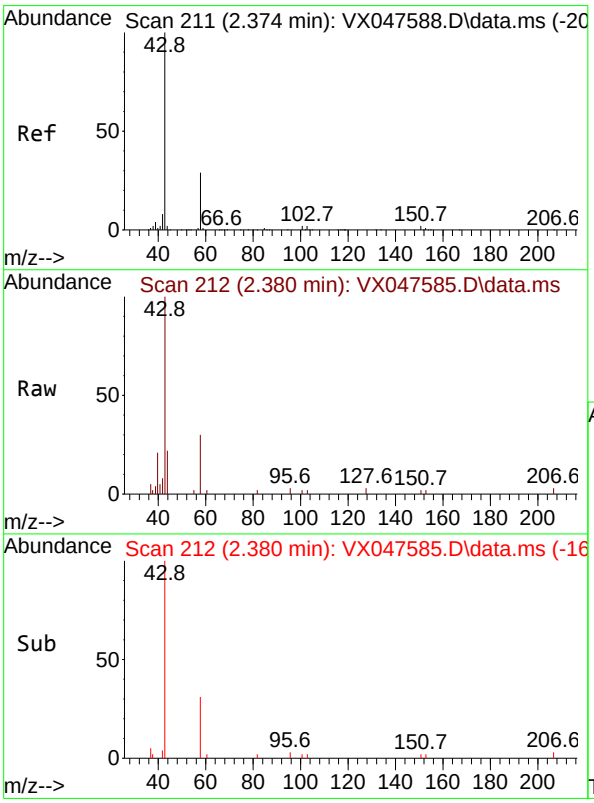
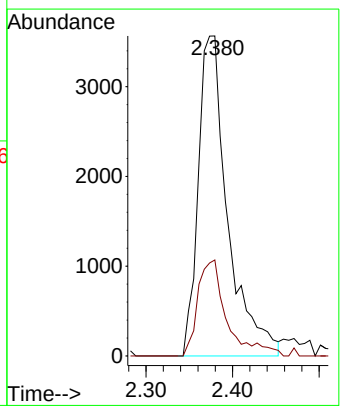
Supervised By :Mahesh Dadoda 09/18/2025

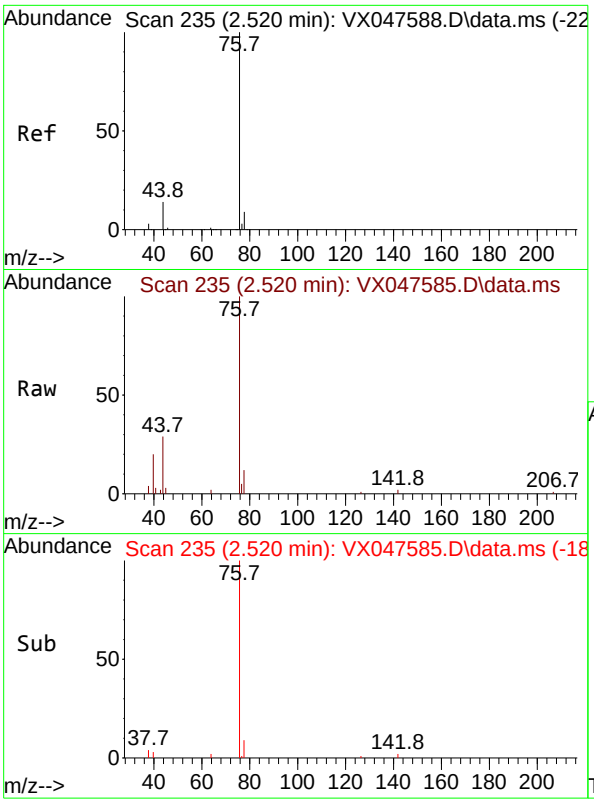


#16
Acetone
Concen: 4.953 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 8444

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0

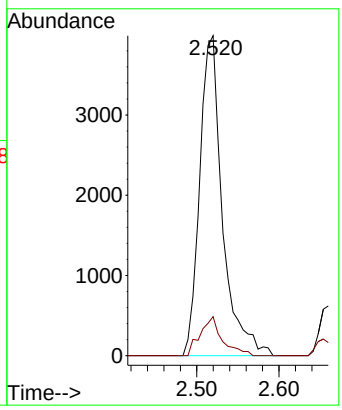




#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 76 Resp: 766

Ion	Ratio	Lower	Upper
76	100		
78	11.6	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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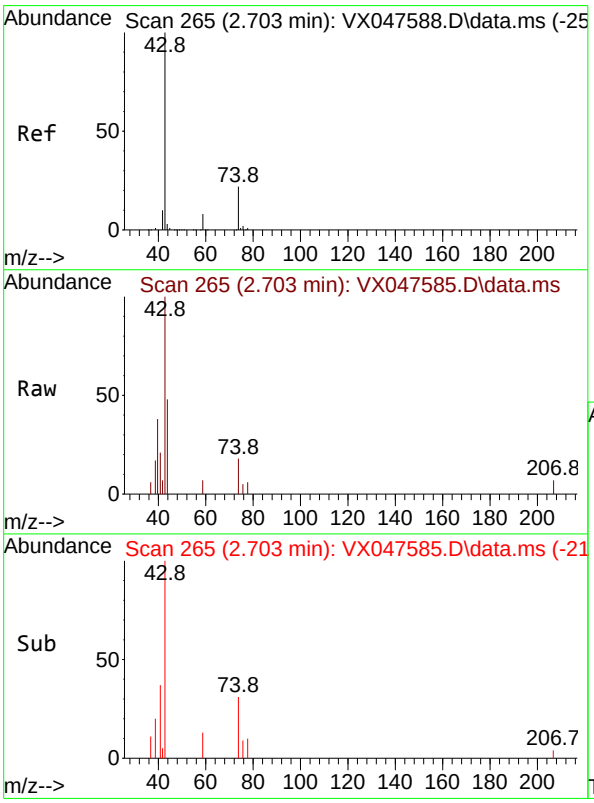
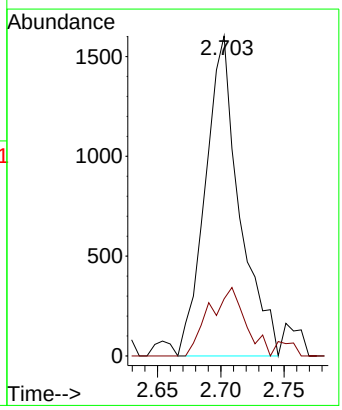
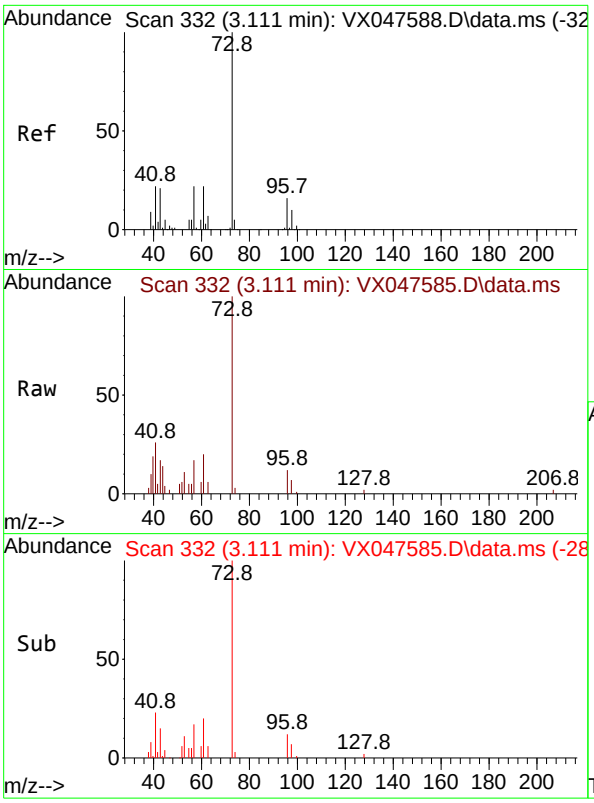


#18
Methyl Acetate
Concen: 0.794 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3013

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

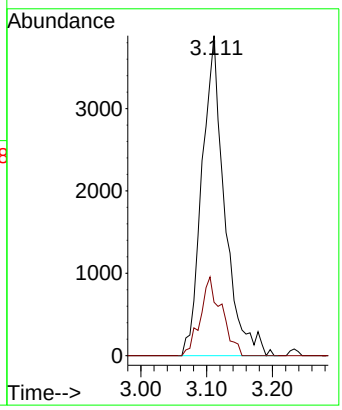




#19
Methyl tert-butyl Ether
Concen: 0.869 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 73 Resp: 928

Ion	Ratio	Lower	Upper
73	100		
57	16.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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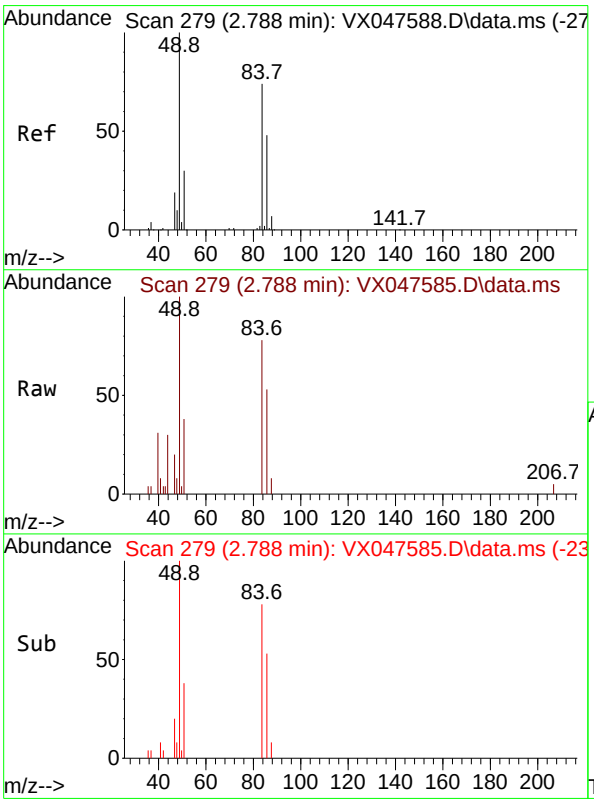
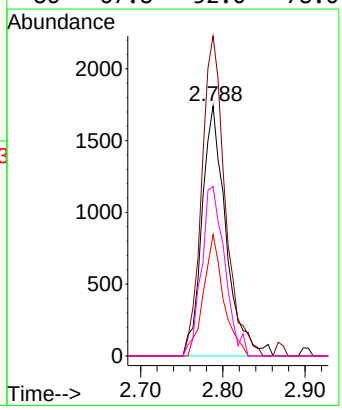
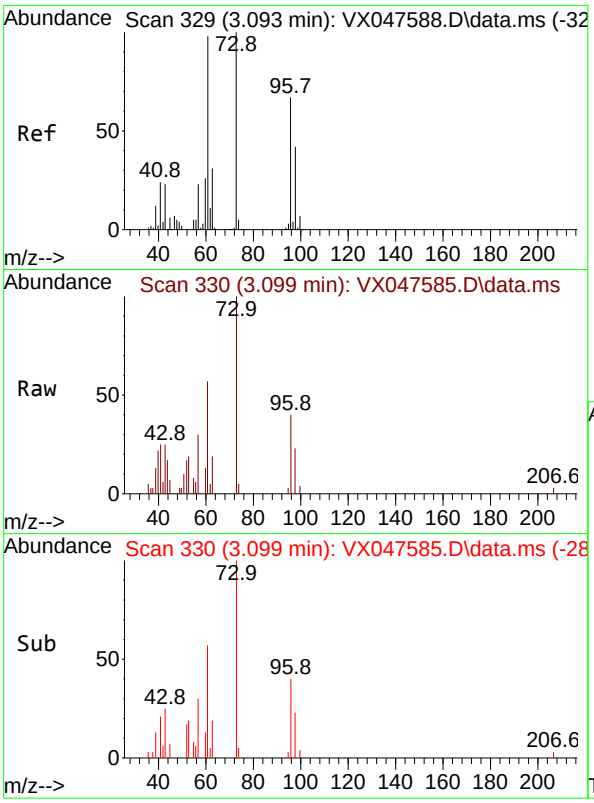


#20
Methylene Chloride
Concen: 0.981 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 84 Resp: 3540

Ion	Ratio	Lower	Upper
84	100		
49	128.0	108.6	162.8
51	48.6	32.6	48.8
86	67.8	52.0	78.0

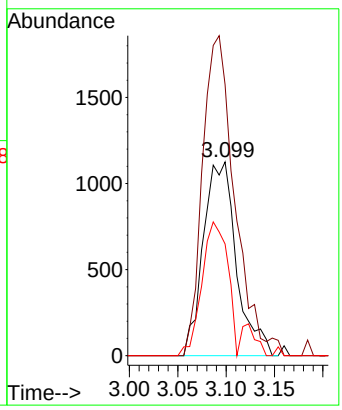




#21
trans-1,2-Dichloroethene
Concen: 0.849 ug/l
RT: 3.099 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 267

Ion	Ratio	Lower	Upper
96	100		
61	139.9	116.2	174.2
98	57.6	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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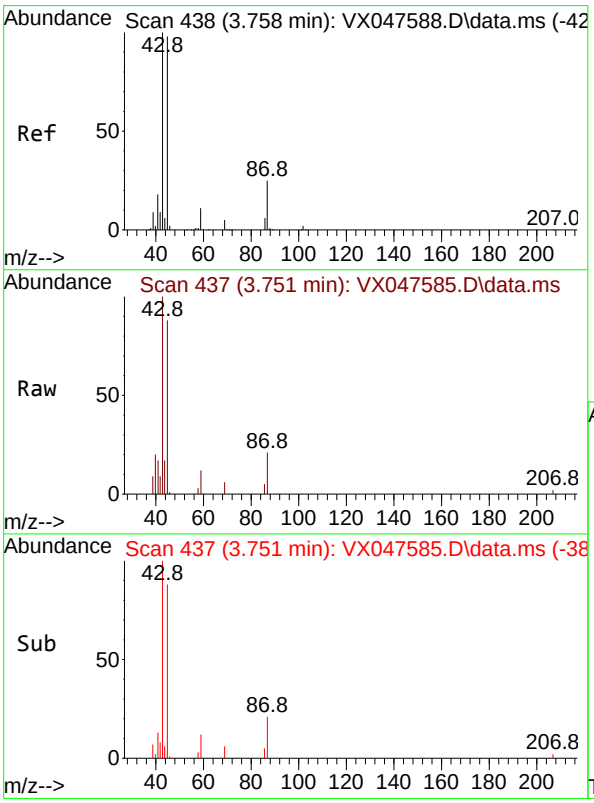
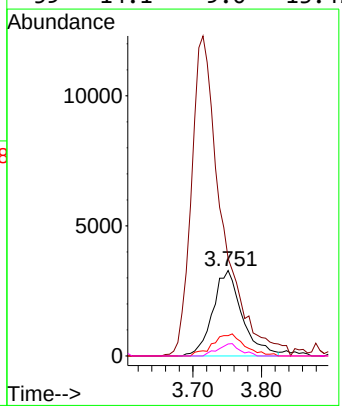
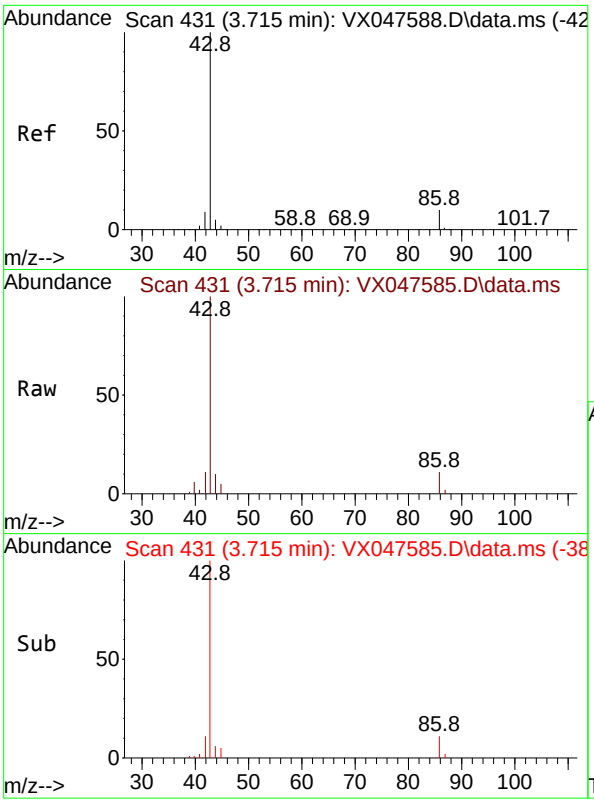


#22
Diisopropyl ether
Concen: 0.832 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 45 Resp: 9738

Ion	Ratio	Lower	Upper
45	100		
43	117.9	81.0	121.4
87	23.7	20.3	30.5
59	14.1	9.0	13.4#





#23
Vinyl Acetate
Concen: 4.052 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3796

Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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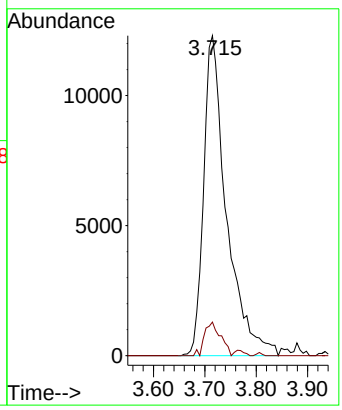
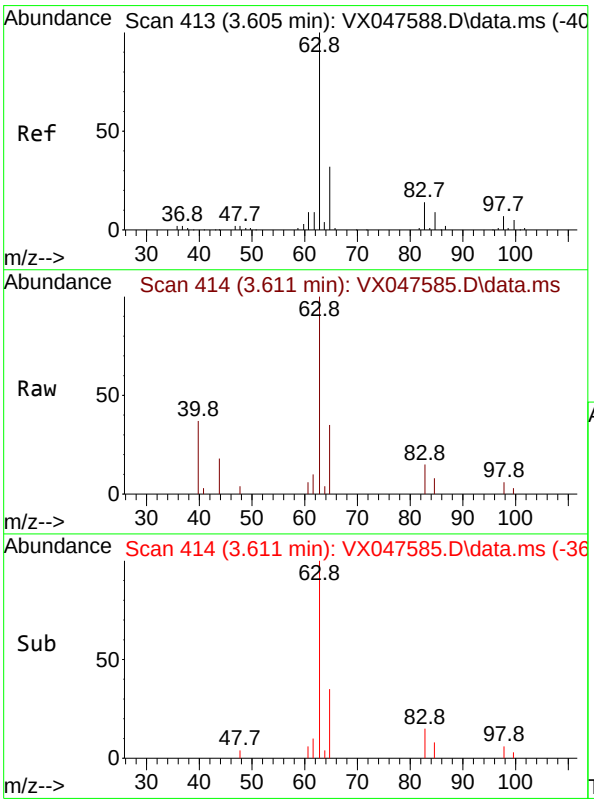
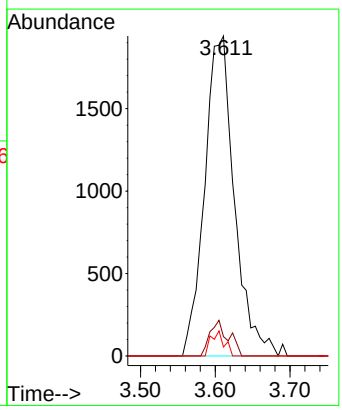


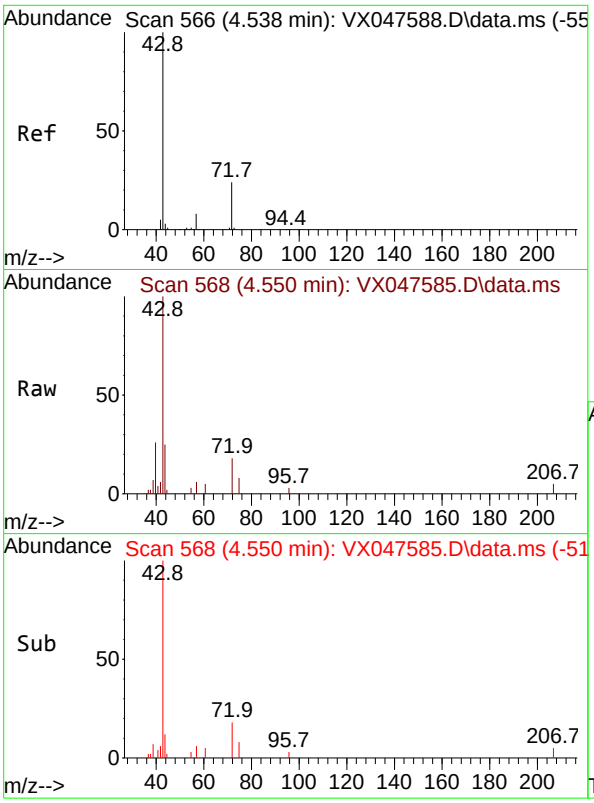


#24
1,1-Dichloroethane
Concen: 0.863 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 5372

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.8	11.2
100	2.8	2.3	6.9





#25
2-Butanone
Concen: 4.281 ug/l
RT: 4.550 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 910

Ion	Ratio	Lower	Upper
43	100		
72	16.3	20.1	30.1#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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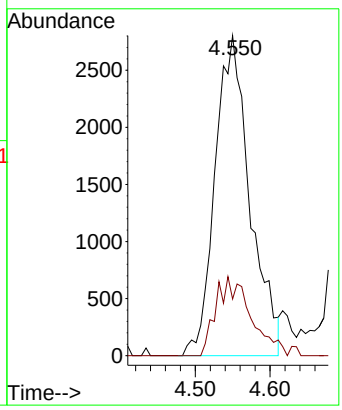
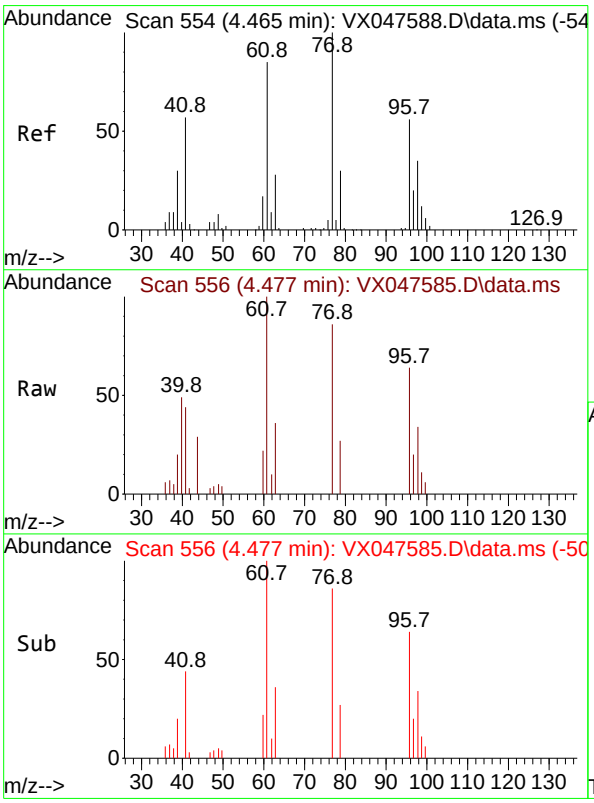
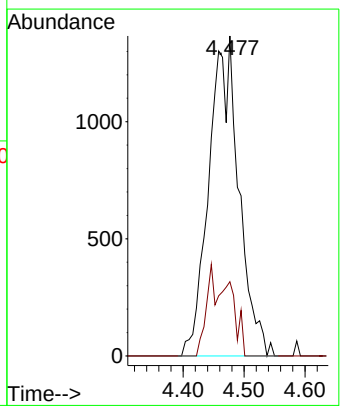


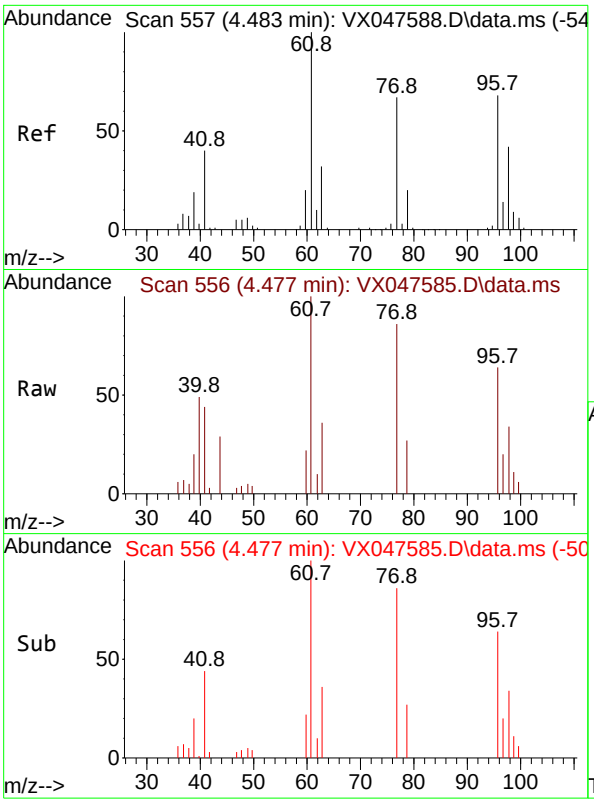


#26
2,2-Dichloropropane
Concen: 0.901 ug/l
RT: 4.477 min Scan# 556
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 77 Resp: 4657

Ion	Ratio	Lower	Upper
77	100		
97	11.0	10.9	32.7

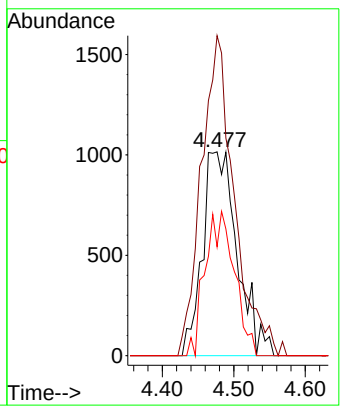




#27
cis-1,2-Dichloroethene
Concen: 0.891 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 344

Ion	Ratio	Lower	Upper
96	100		
61	147.4	0.0	303.2
98	59.4	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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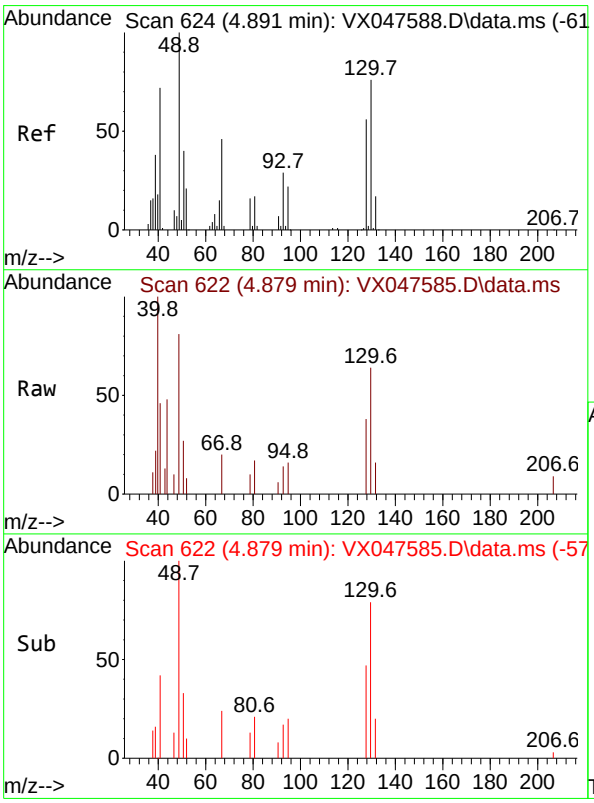
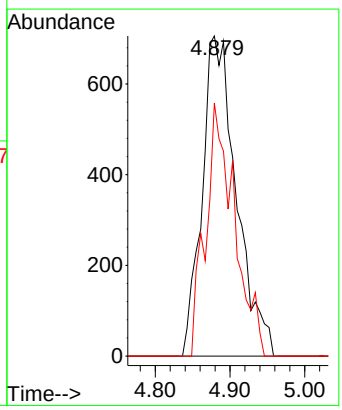
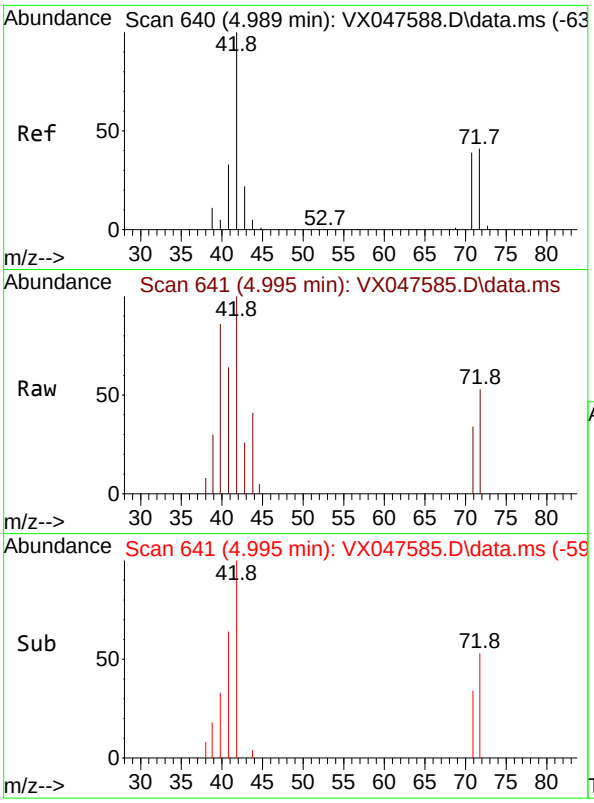


#28
Bromochloromethane
Concen: 0.829 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 49 Resp: 2251

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.2
130	66.2	57.8	86.8

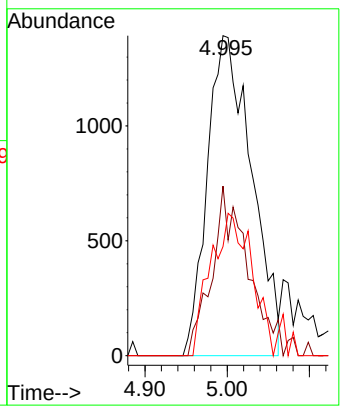




#29
Tetrahydrofuran
Concen: 4.072 ug/l
RT: 4.995 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 42 Resp: 521

Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.2	51.2
71	41.3	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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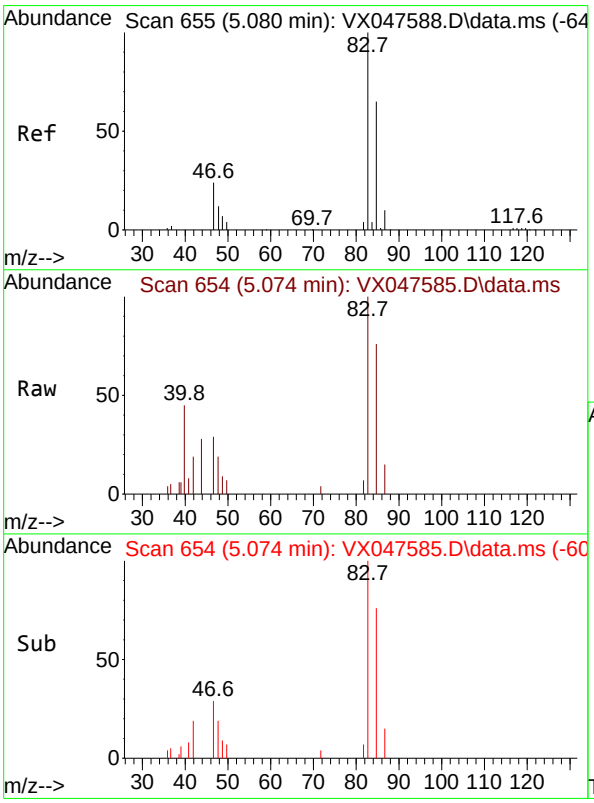
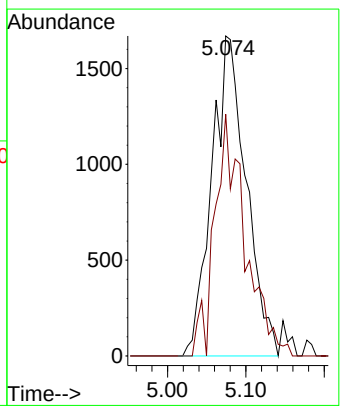
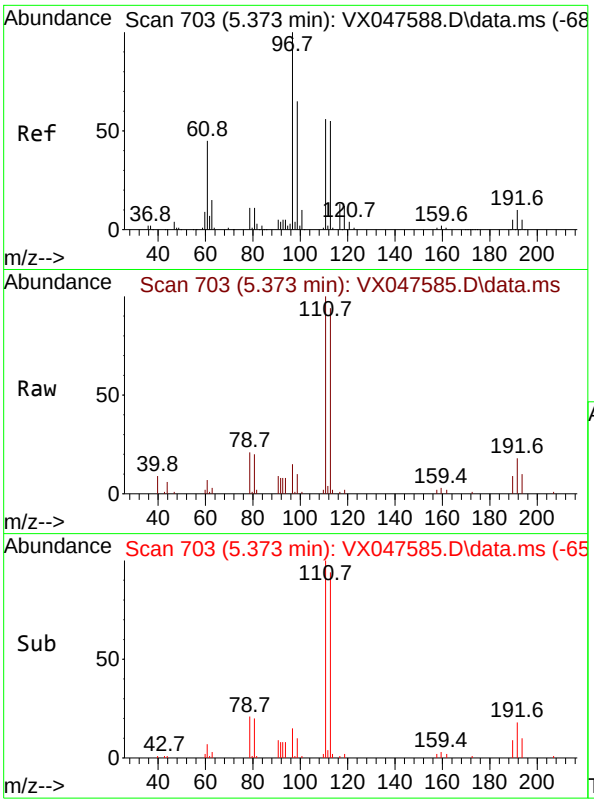


#30
Chloroform
Concen: 0.810 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 5093

Ion	Ratio	Lower	Upper
83	100		
85	75.6	51.8	77.6

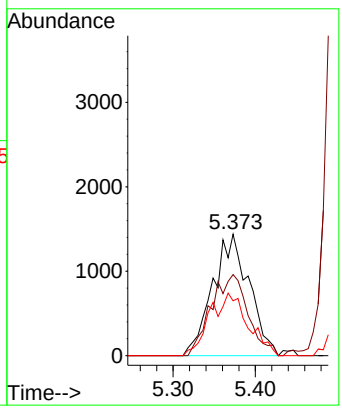




#32
1,1,1-Trichloroethane
Concen: 0.832 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 443

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.6	76.0
61	36.2	35.8	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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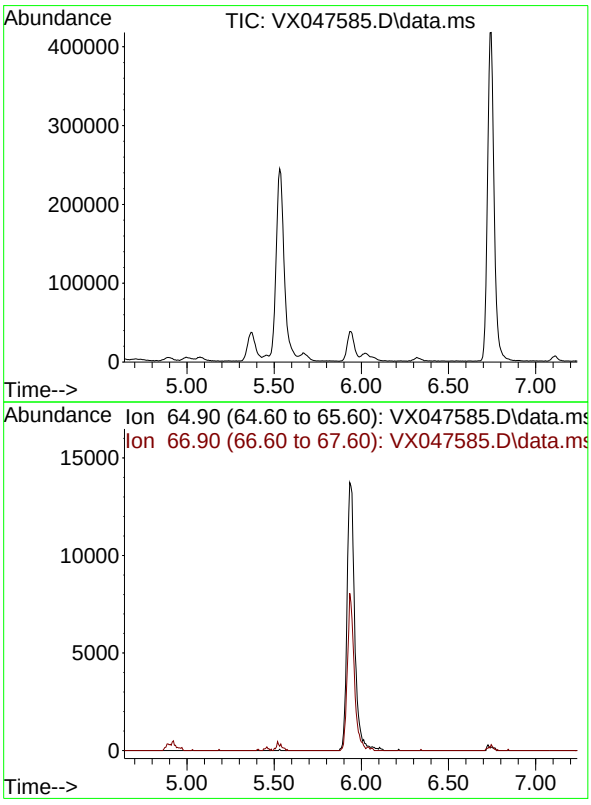
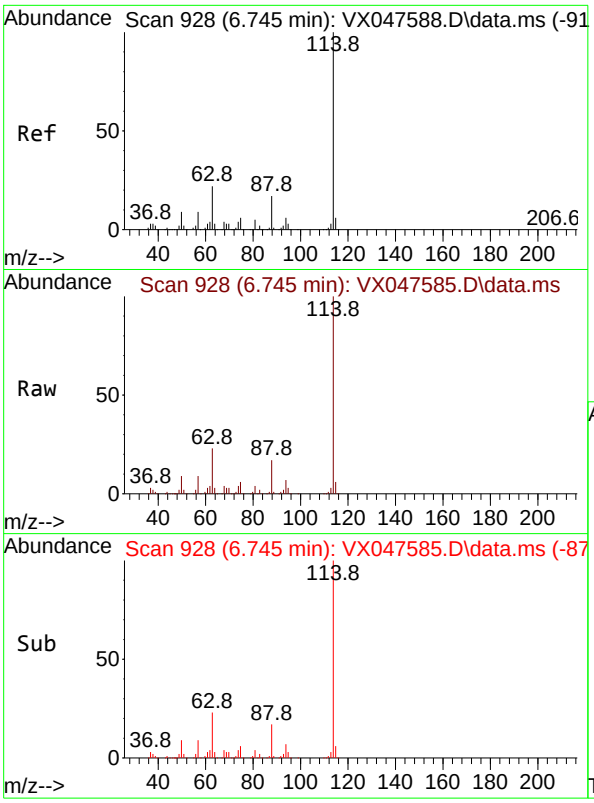


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.94 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	51.5



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:114 Resp: 45150

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	44.0
88	16.6	0.0	34.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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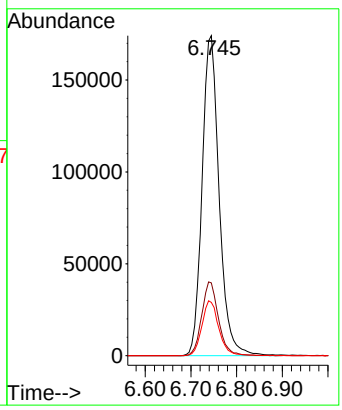
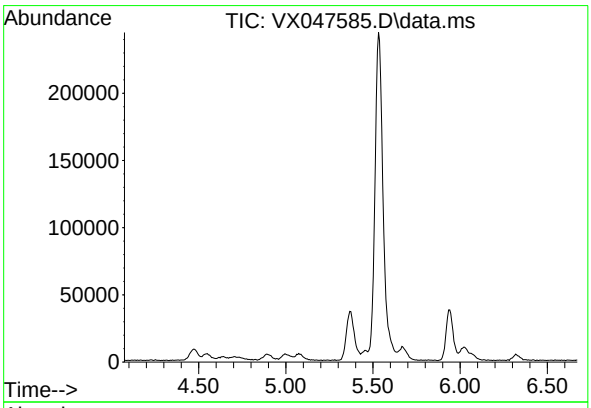


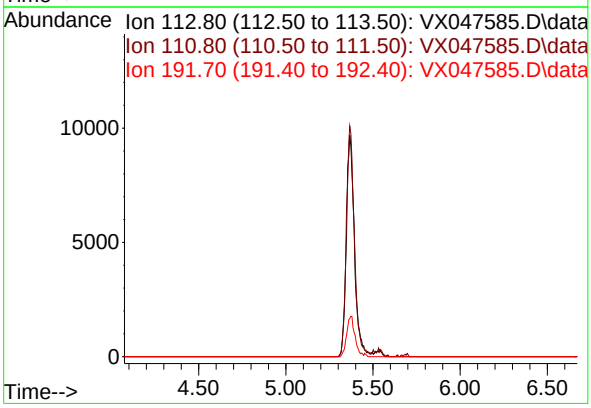


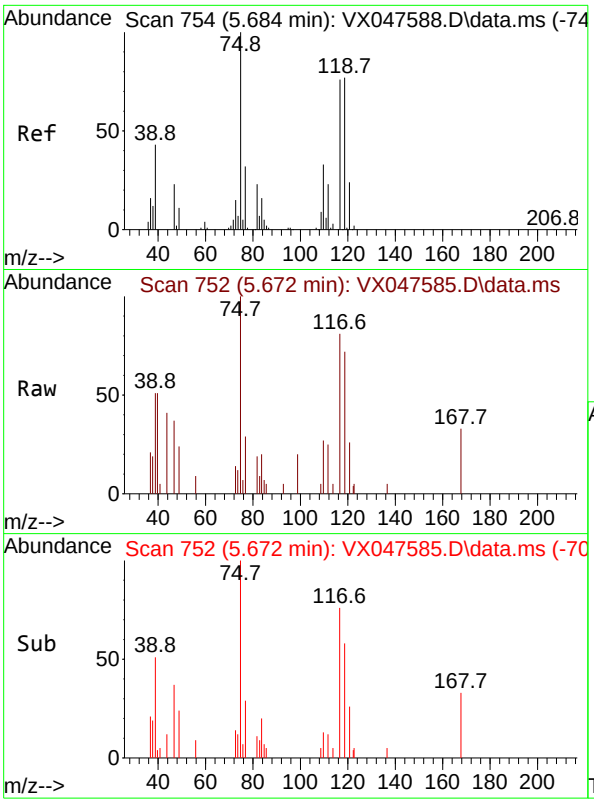
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.37 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	101.1
192	17.8

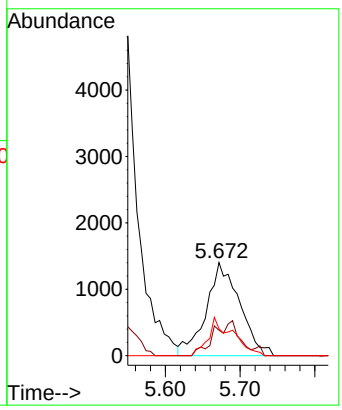




#36
1,1-Dichloropropene
Concen: 0.988 ug/l
RT: 5.672 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 437

Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.7	50.1#
77	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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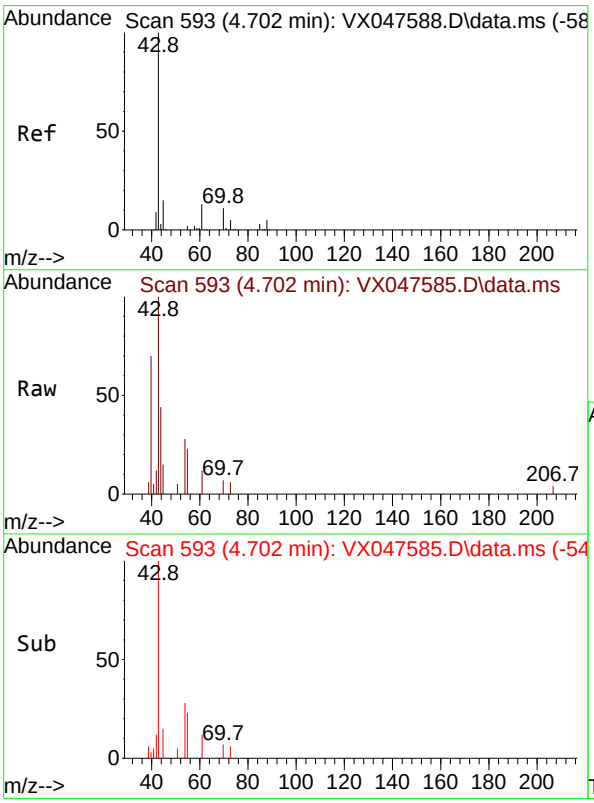
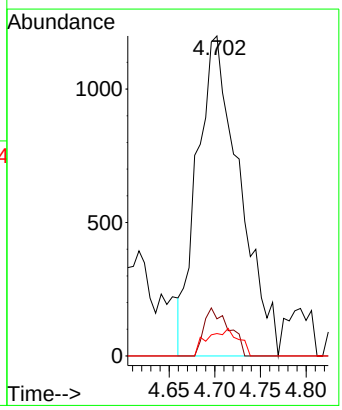
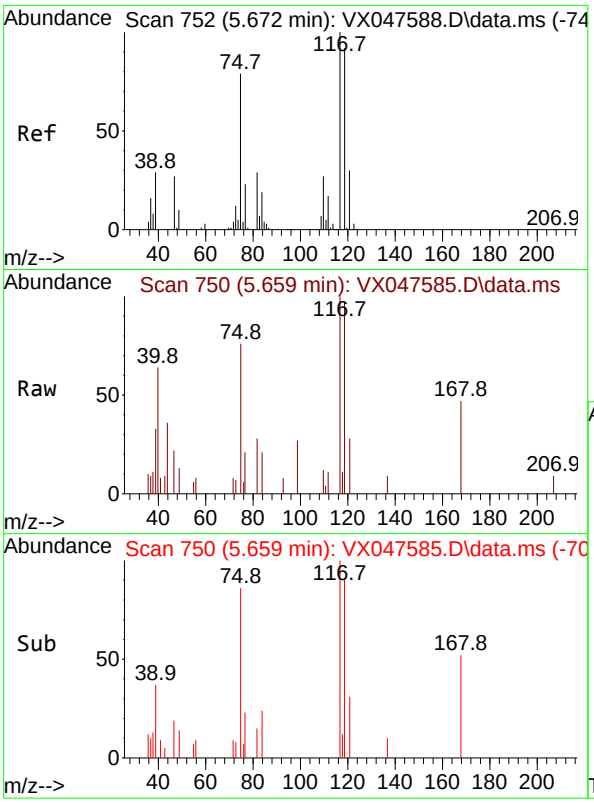


#37
Ethyl Acetate
Concen: 0.818 ug/l
RT: 4.702 min Scan# 593
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
61	8.9	9.8	14.8#
70	6.2	7.9	11.9#

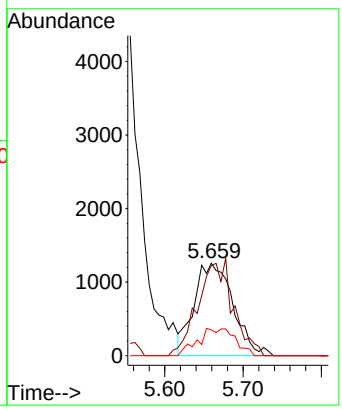




#38
Carbon Tetrachloride
Concen: 0.905 ug/l
RT: 5.659 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 434

Ion	Ratio	Lower	Upper
117	100		
119	97.3	73.4	110.2
121	27.8	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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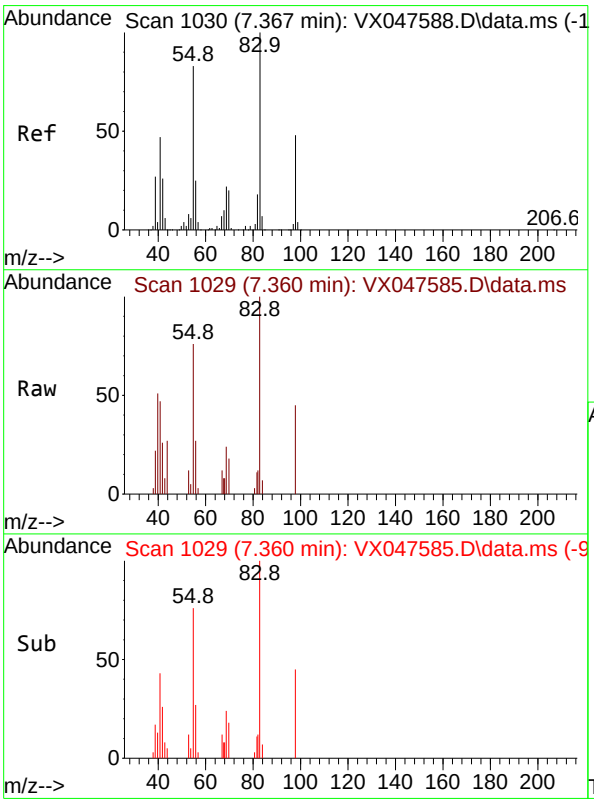
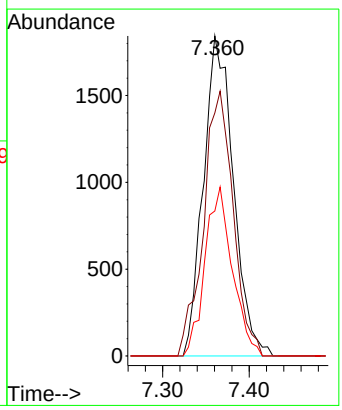
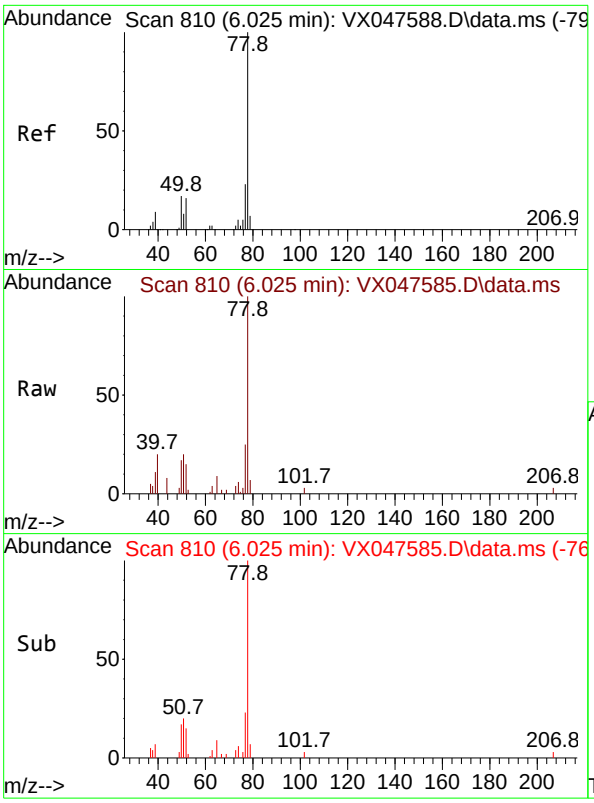


#39
Methylcyclohexane
Concen: 0.882 ug/l
RT: 7.360 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 4428

Ion	Ratio	Lower	Upper
83	100		
55	76.0	66.4	99.6
98	45.3	38.1	57.1





#40
Benzene
Concen: 0.894 ug/l
RT: 6.025 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 78 Resp: 1201

Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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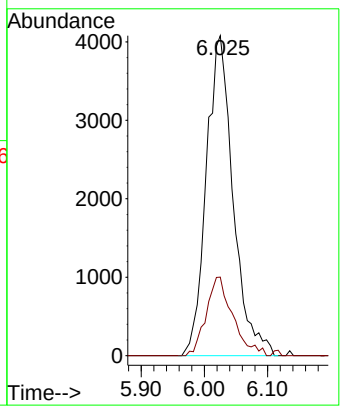
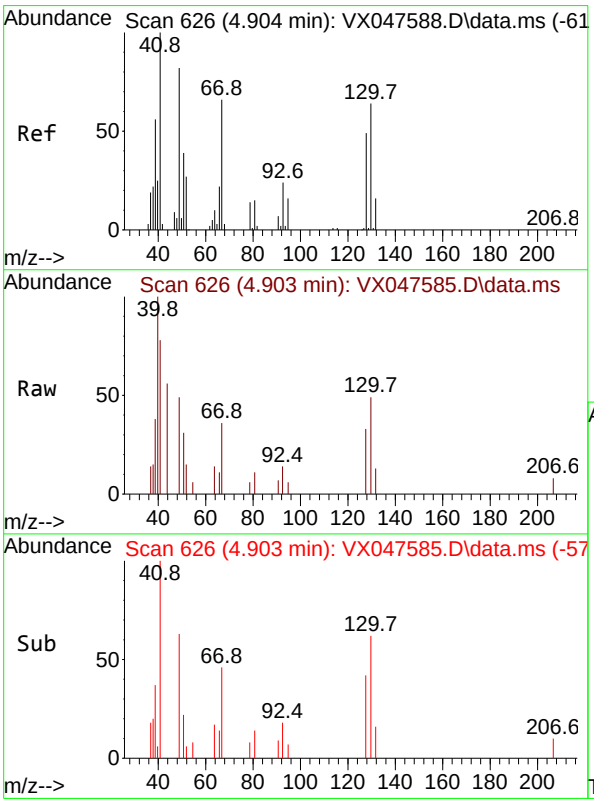
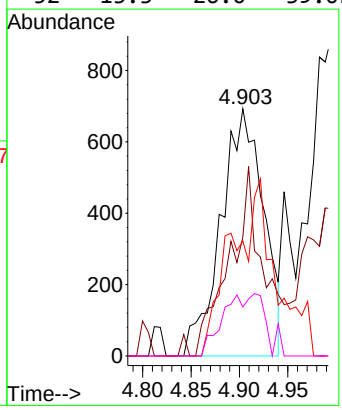


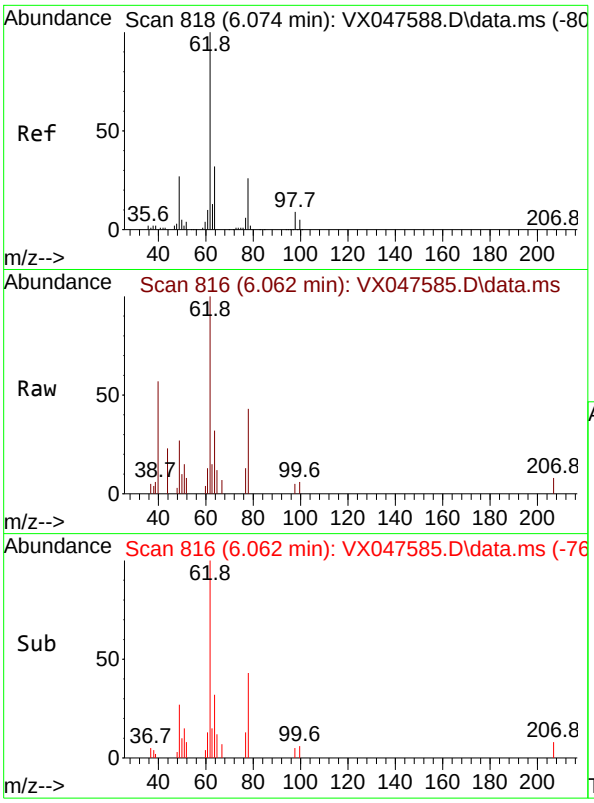


#41
Methacrylonitrile
Concen: 0.870 ug/l
RT: 4.903 min Scan# 626
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 2128

Ion	Ratio	Lower	Upper
41	100		
39	60.3	43.3	64.9
67	23.5	58.6	87.8#
52	13.3	26.0	39.0#

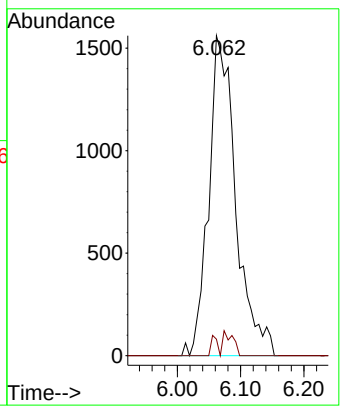




#42
1,2-Dichloroethane
Concen: 0.906 ug/l
RT: 6.062 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 463

Ion	Ratio	Lower	Upper
62	100		
98	1.4	0.0	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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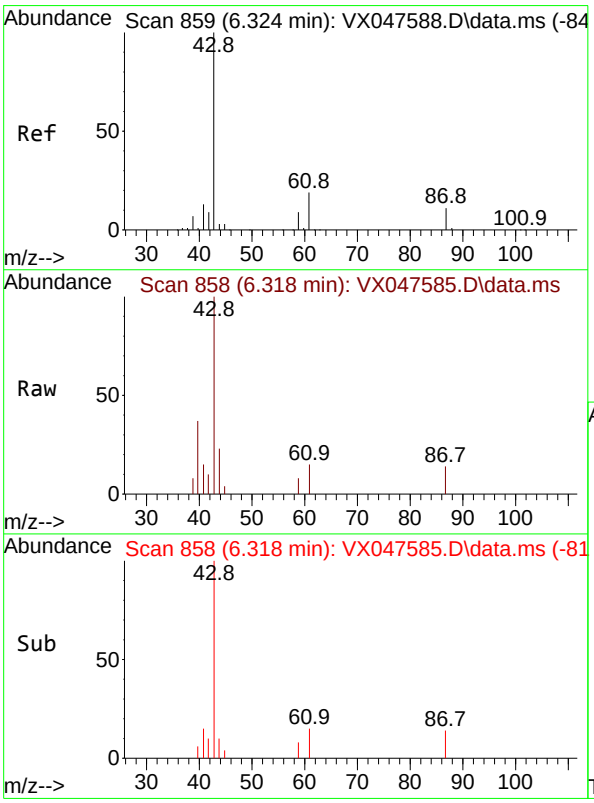
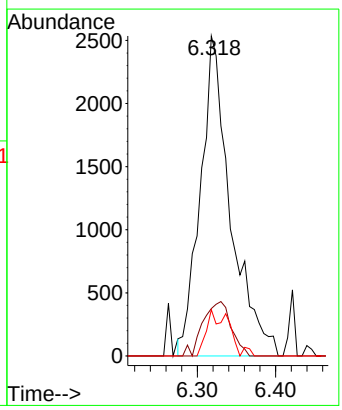
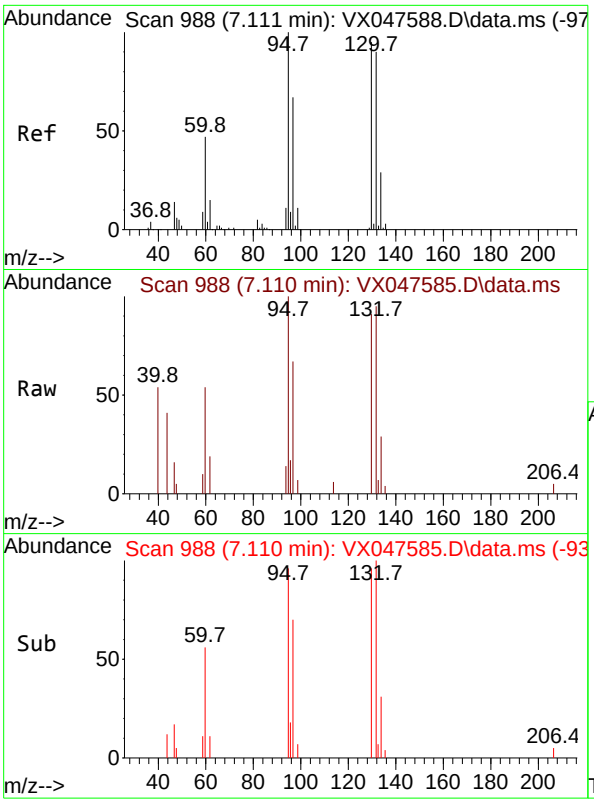


#43
Isopropyl Acetate
Concen: 0.873 ug/l
RT: 6.318 min Scan# 858
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 6784

Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.2	22.8
87	10.1	9.6	14.4

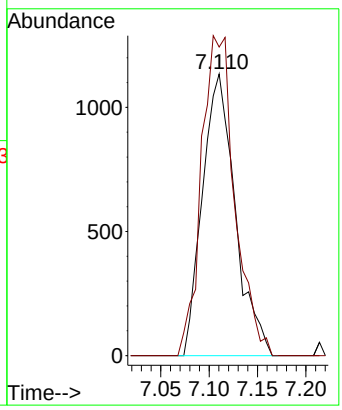




#44
Trichloroethene
Concen: 0.824 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:130 Resp: 267

Ion	Ratio	Lower	Upper
130	100		
95	127.9	0.0	210.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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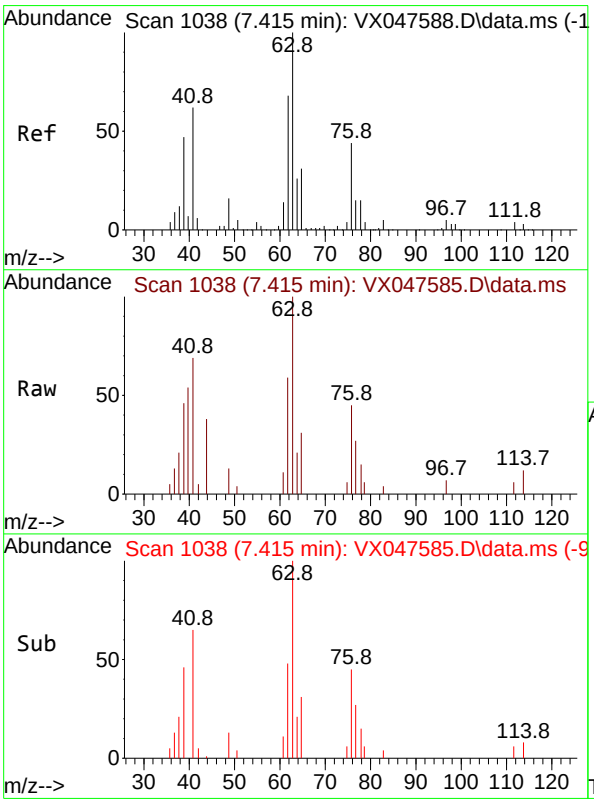
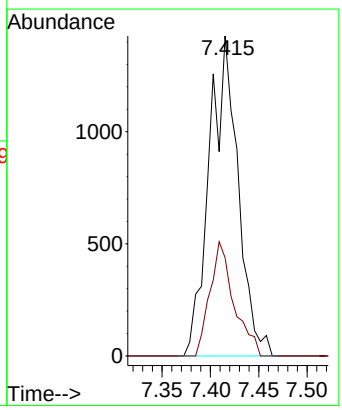
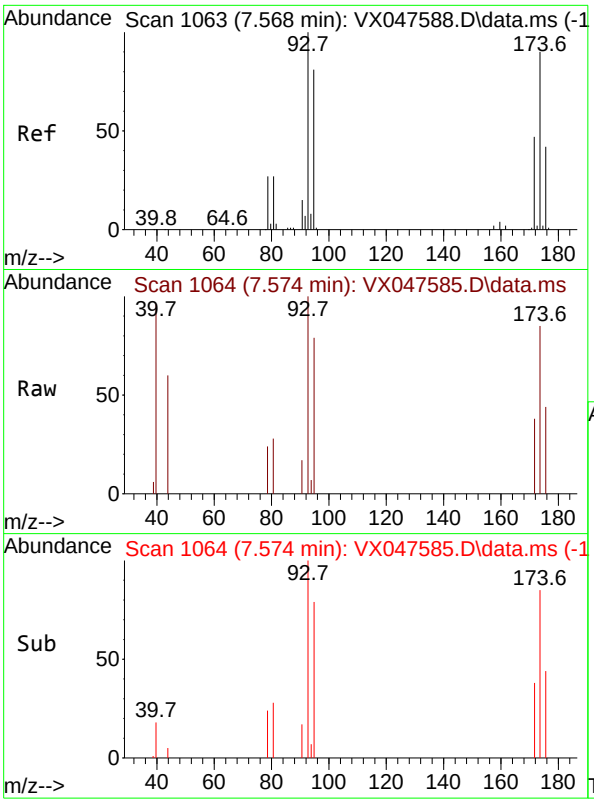


#45
1,2-Dichloropropane
Concen: 0.856 ug/l
RT: 7.415 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 2945

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

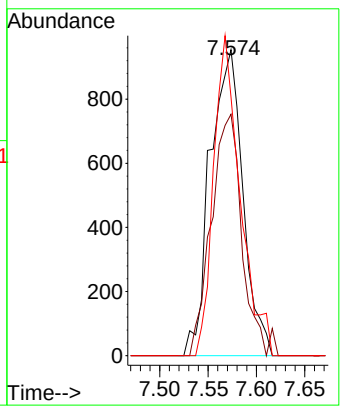




#46
Dibromomethane
Concen: 0.895 ug/l
RT: 7.574 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 93 Resp: 224

Ion	Ratio	Lower	Upper
93	100		
95	74.4	65.0	97.6
174	85.1	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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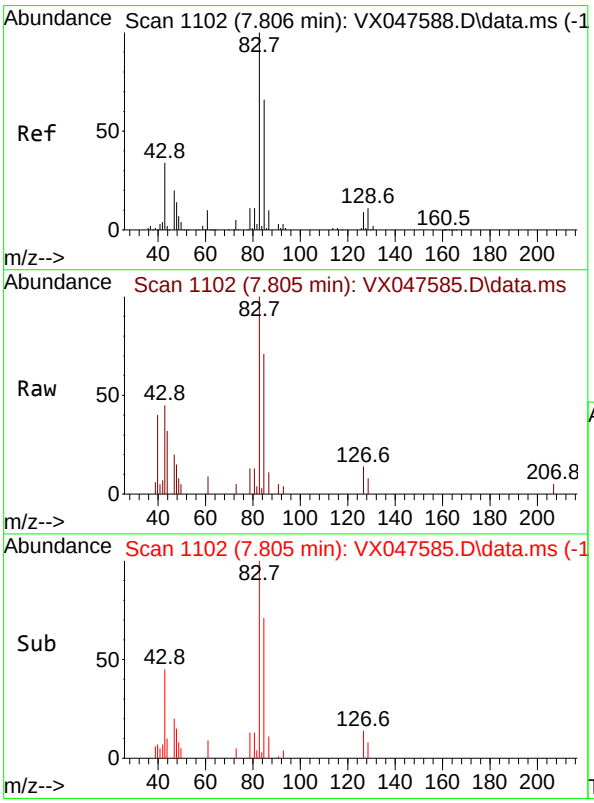
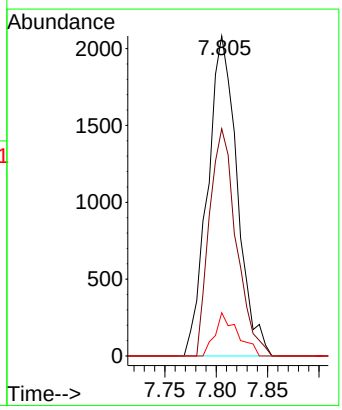
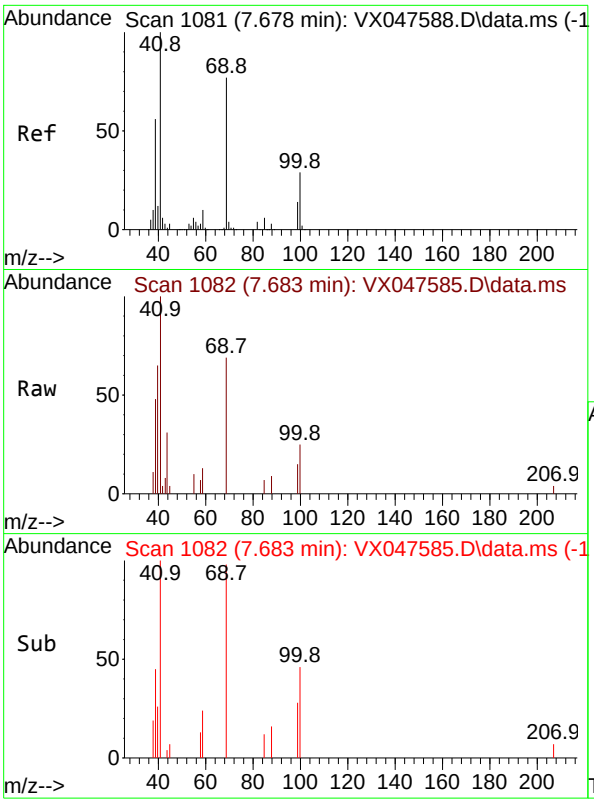


#47
Bromodichloromethane
Concen: 0.806 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 4167

Ion	Ratio	Lower	Upper
83	100		
85	71.0	52.5	78.7
127	13.5	6.9	10.3#





#48
Methyl methacrylate
Concen: 0.867 ug/l
RT: 7.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 335

Ion	Ratio	Lower	Upper
41	100		
69	59.3	61.4	92.2#
39	59.5	45.8	68.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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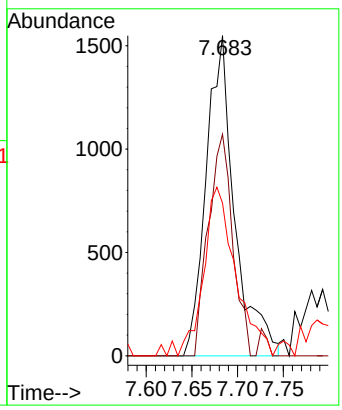
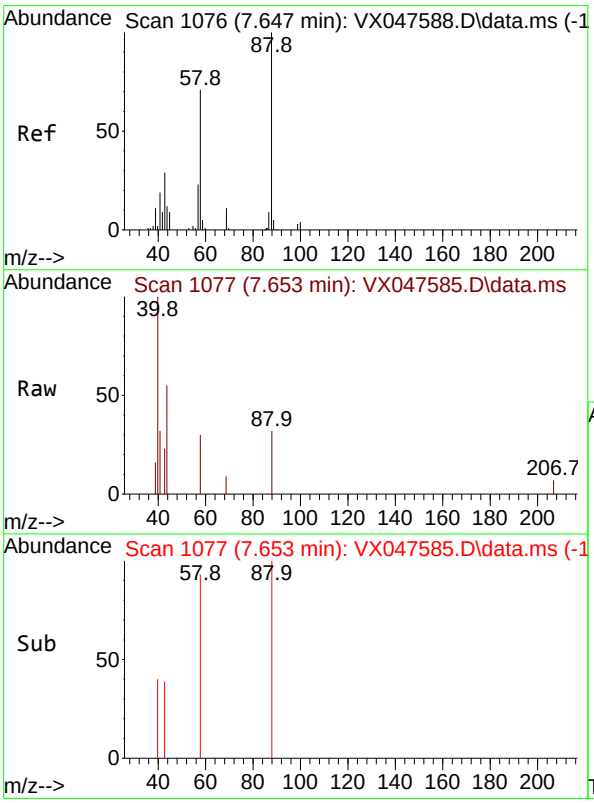
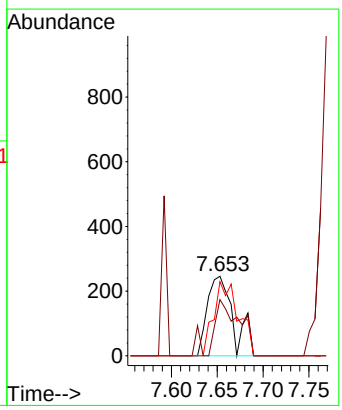


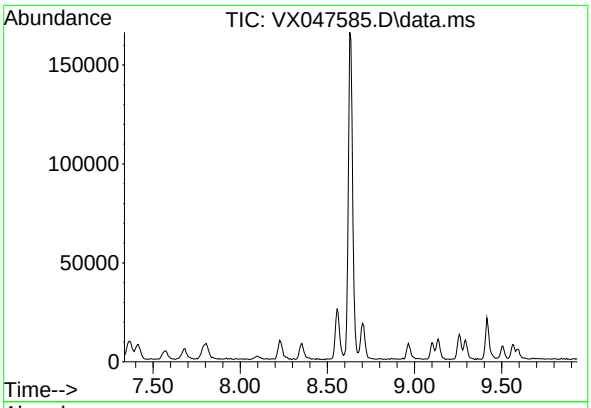


#49
1,4-Dioxane
Concen: 12.477 ug/l m
RT: 7.653 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 88 Resp: 488

Ion	Ratio	Lower	Upper
88	100		
43	64.1	30.2	45.2#
58	88.9	59.5	89.3





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.63 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	66.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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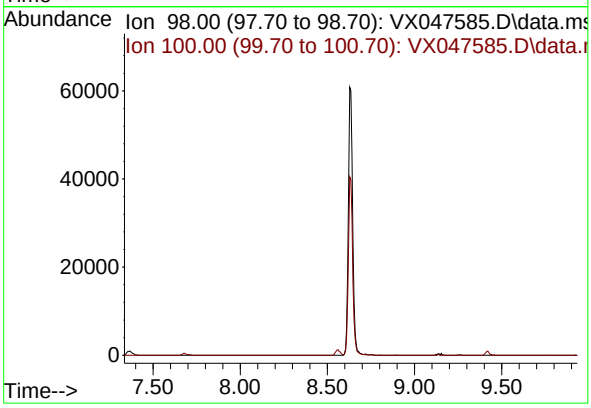
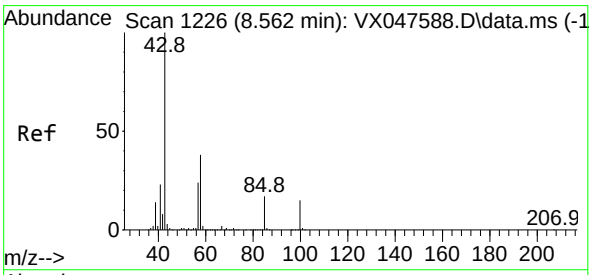
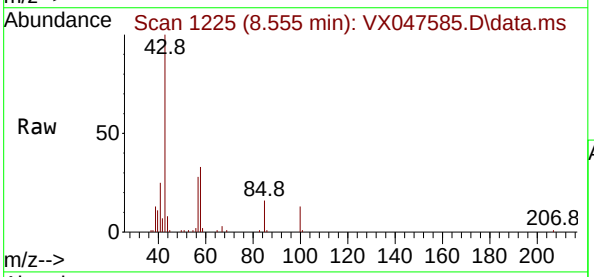
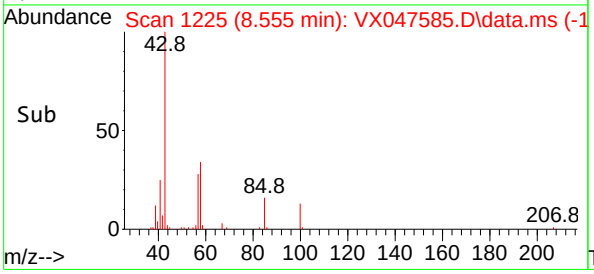




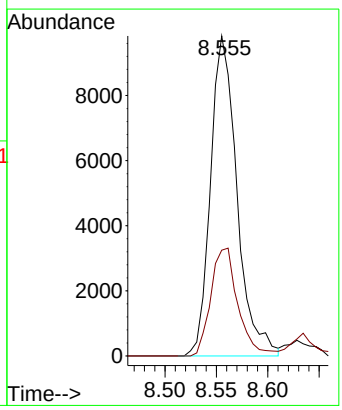


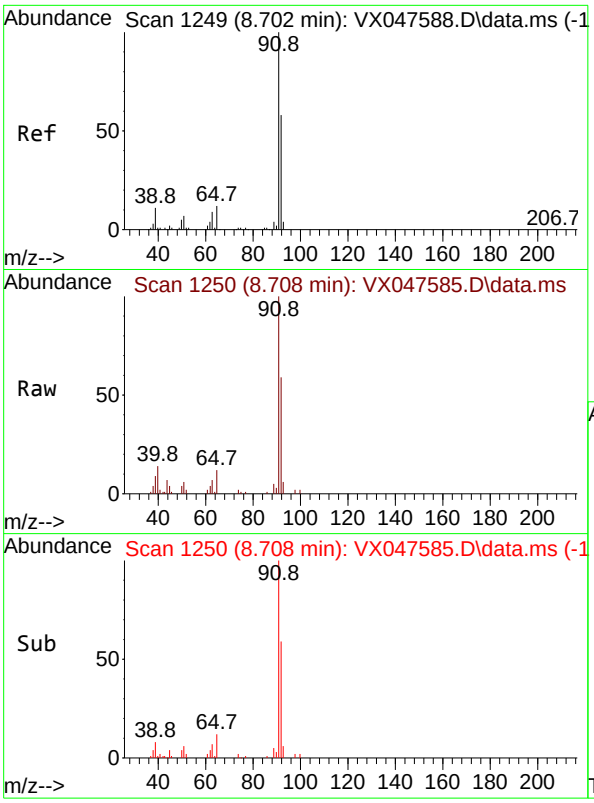


#51
4-Methyl-2-Pentanone
Concen: 4.085 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 17596

Ion	Ratio	Lower	Upper
43	100		
58	34.7	30.3	45.5

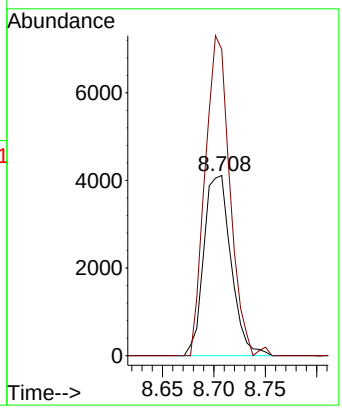




#52
Toluene
Concen: 0.917 ug/l
RT: 8.708 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 92 Resp: 759

Ion	Ratio	Lower	Upper
92	100		
91	160.7	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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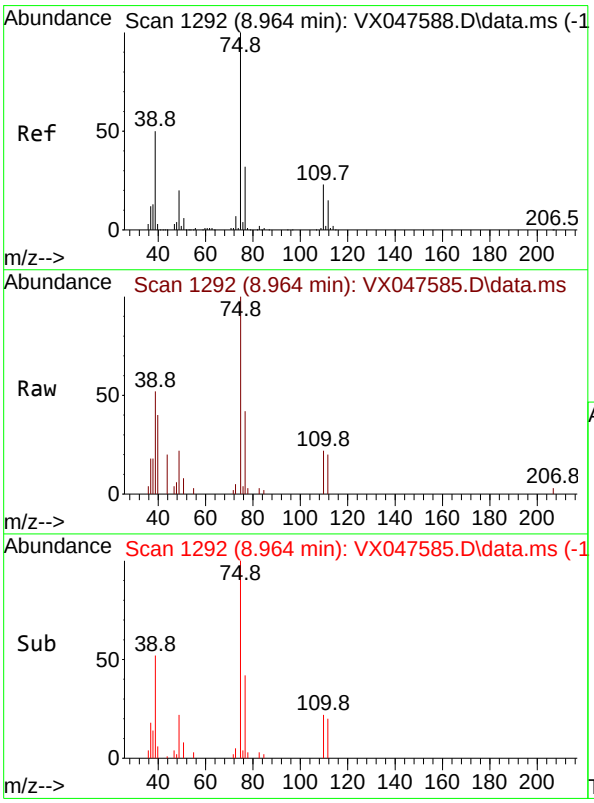
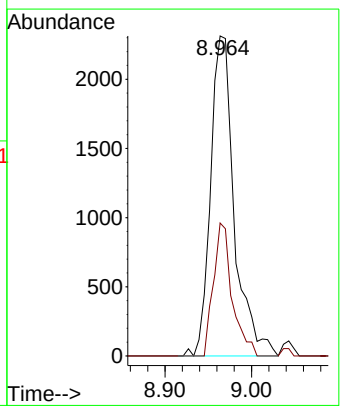
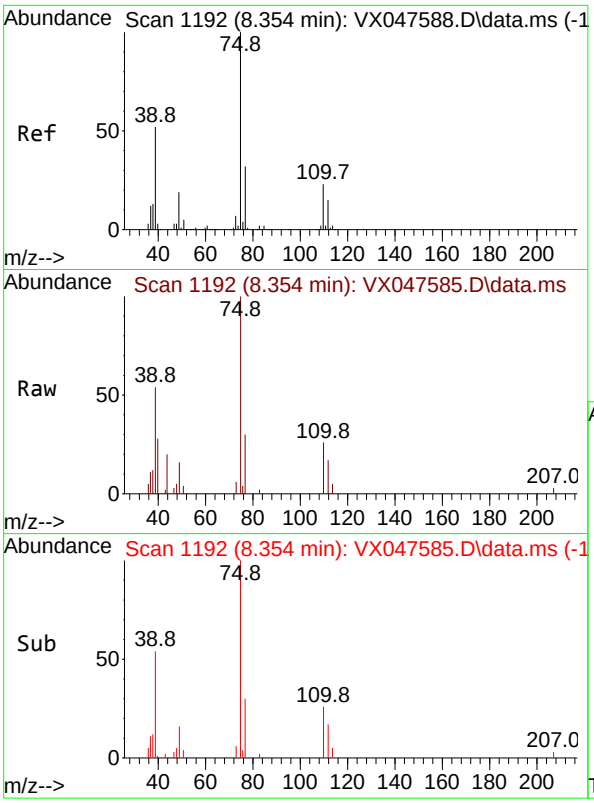


#53
t-1,3-Dichloropropene
Concen: 0.834 ug/l
RT: 8.964 min Scan# 1292
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 4398

Ion	Ratio	Lower	Upper
75	100		
77	41.5	25.4	38.2#

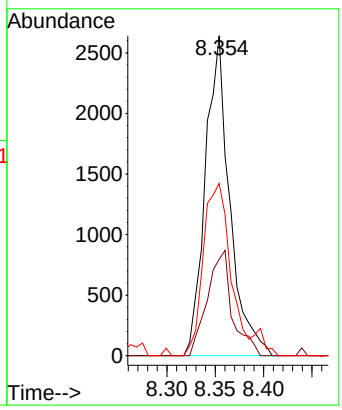




#54
cis-1,3-Dichloropropene
Concen: 0.823 ug/l
RT: 8.354 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 463

Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.8	38.6
39	25.6	41.4	62.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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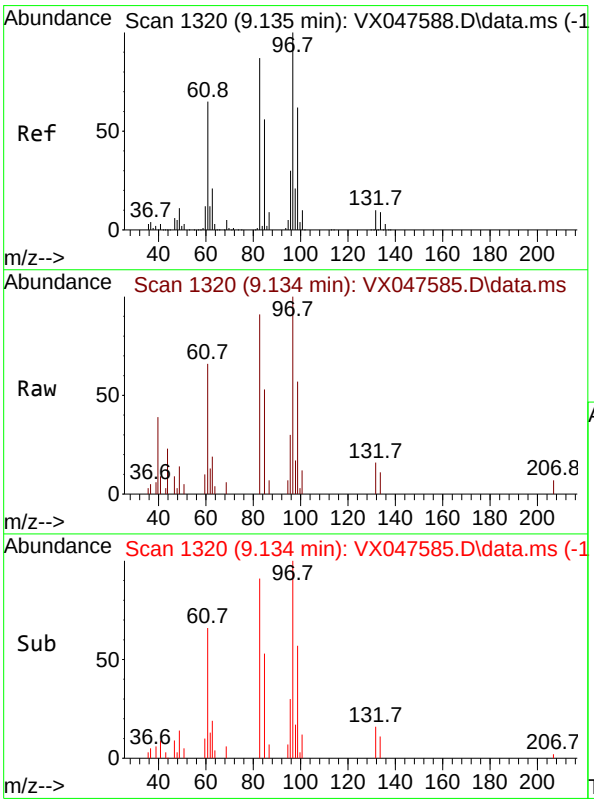
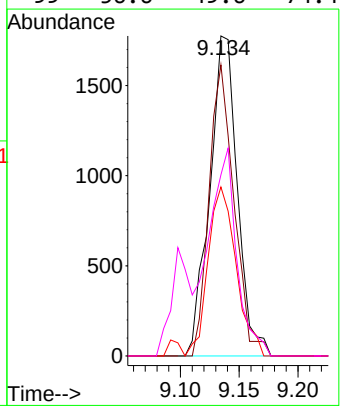
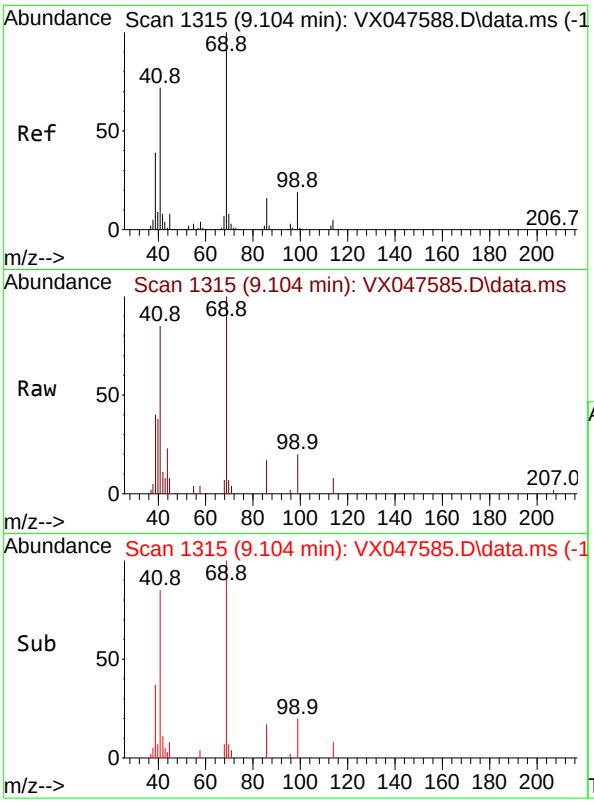


#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.134 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 2918

Ion	Ratio	Lower	Upper
97	100		
83	90.9	69.6	104.4
85	52.8	45.0	67.6
99	56.6	49.6	74.4

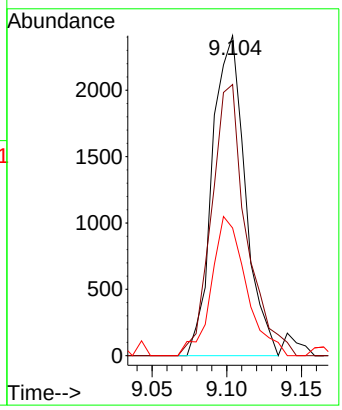




#56
Ethyl methacrylate
Concen: 0.734 ug/l
RT: 9.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 69 Resp: 367

Ion	Ratio	Lower	Upper
69	100		
41	89.4	58.6	87.8
39	46.0	31.5	47.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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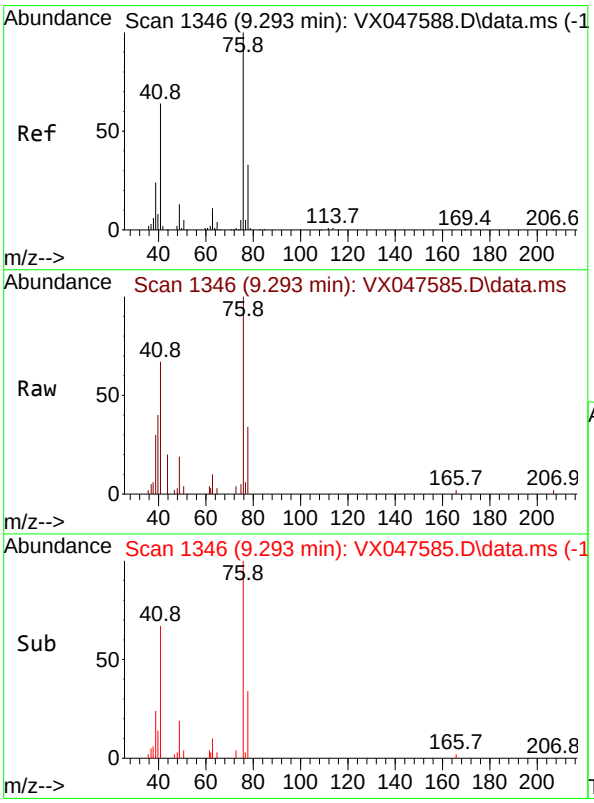
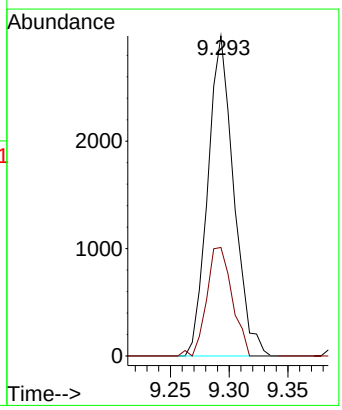
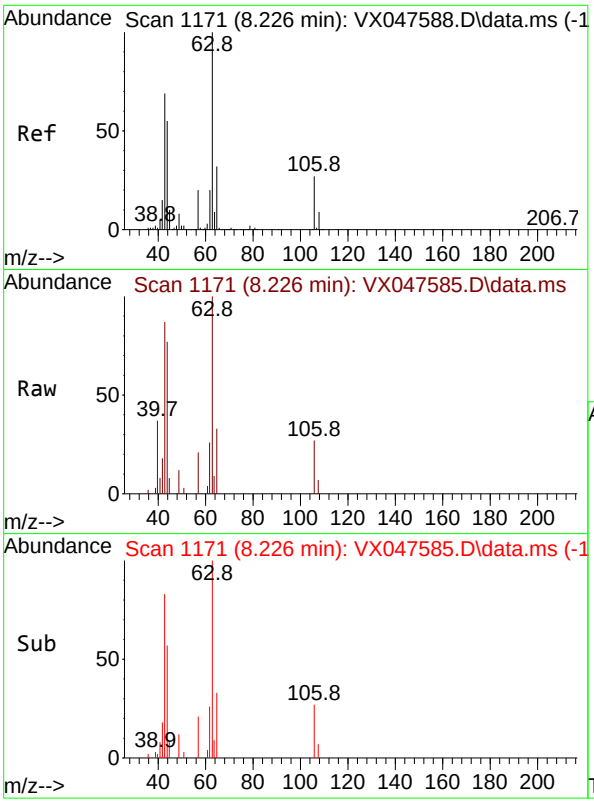


#57
1,3-Dichloropropane
Concen: 0.835 ug/l
RT: 9.293 min Scan# 1346
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 76 Resp: 4580

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.2	39.4

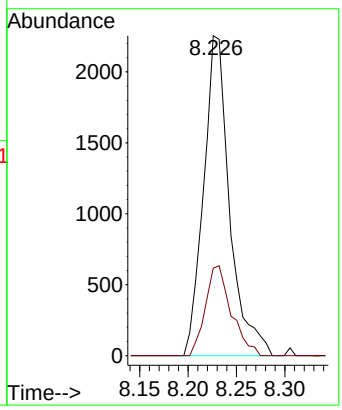




#58
2-Chloroethyl Vinyl ether
Concen: 9.665 ug/l
RT: 8.226 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 422

Ion	Ratio	Lower	Upper
63	100		
106	27.9	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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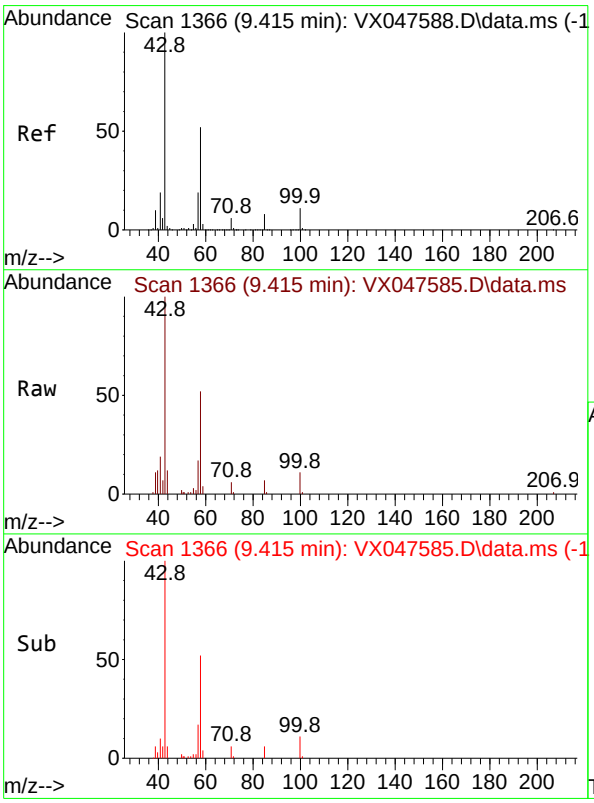
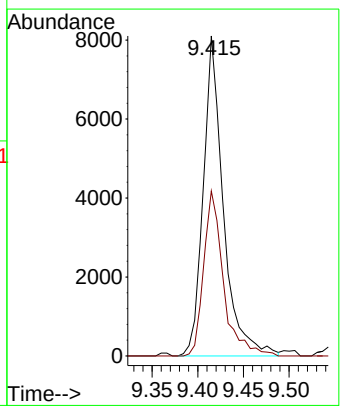
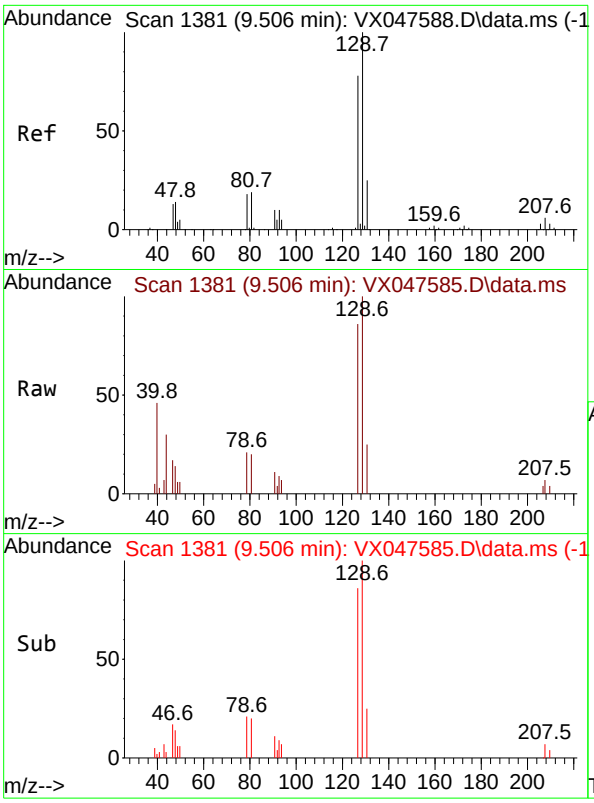


#59
2-Hexanone
Concen: 4.003 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 12385

Ion	Ratio	Lower	Upper
43	100		
58	50.7	26.1	78.2

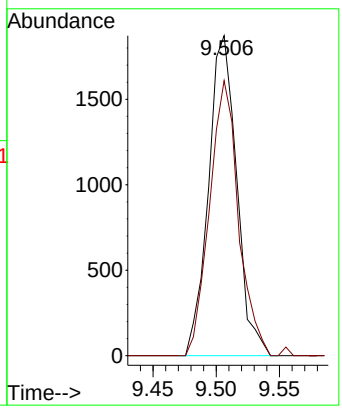




#60
Dibromochloromethane
Concen: 0.789 ug/l
RT: 9.506 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:129 Resp: 290

Ion	Ratio	Lower	Upper
129	100		
127	88.2	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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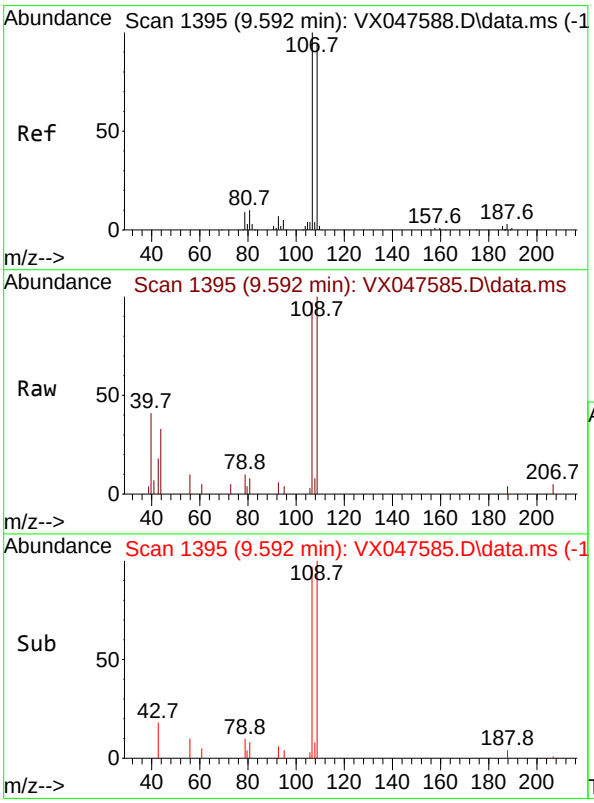
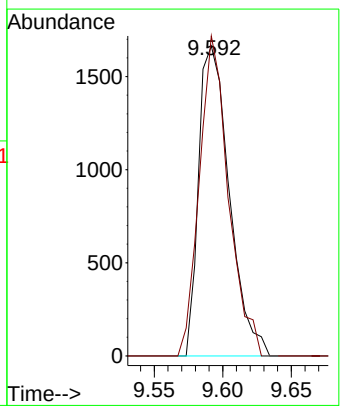
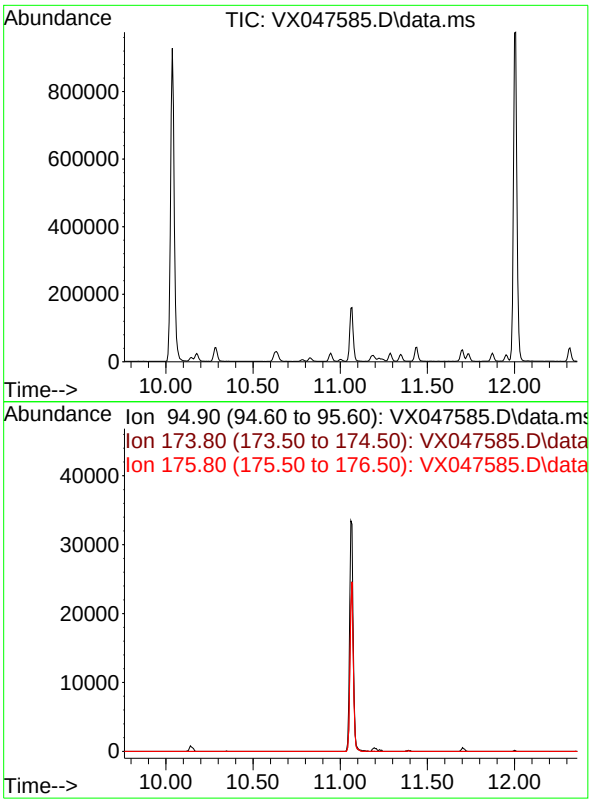


#61
1,2-Dibromoethane
Concen: 0.798 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:107 Resp: 2596

Ion	Ratio	Lower	Upper
107	100		
109	97.7	75.3	112.9





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.06 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	70.8
176	69.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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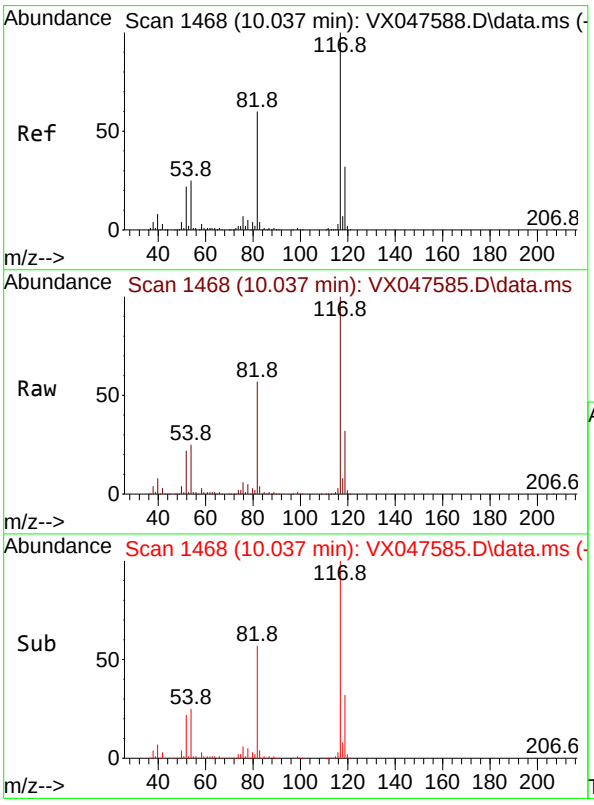
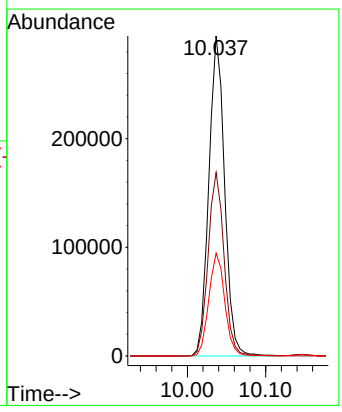
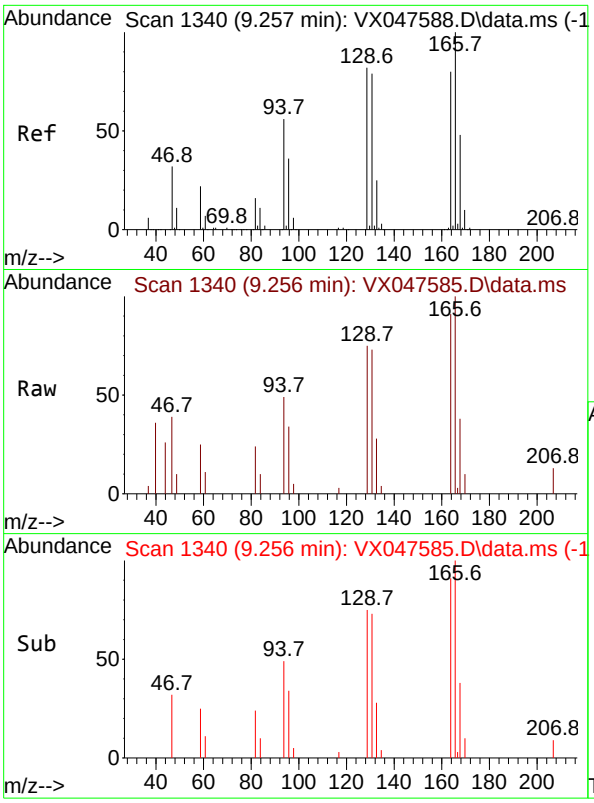


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 410953

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.8	71.6
119	32.1	25.2	37.8

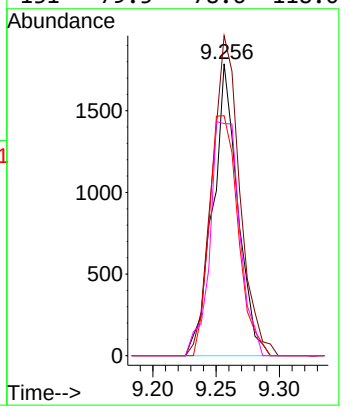




#64
Tetrachloroethene
Concen: 0.917 ug/l
RT: 9.256 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:164 Resp: 245

Ion	Ratio	Lower	Upper
164	100		
166	109.6	100.2	150.2
129	82.2	81.8	122.6
131	79.5	78.6	118.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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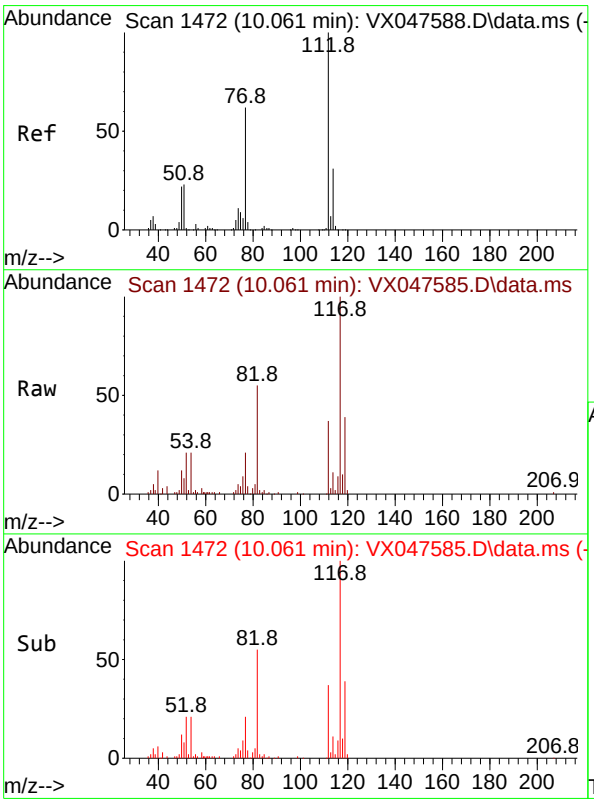
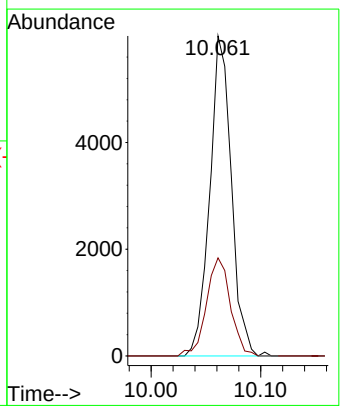
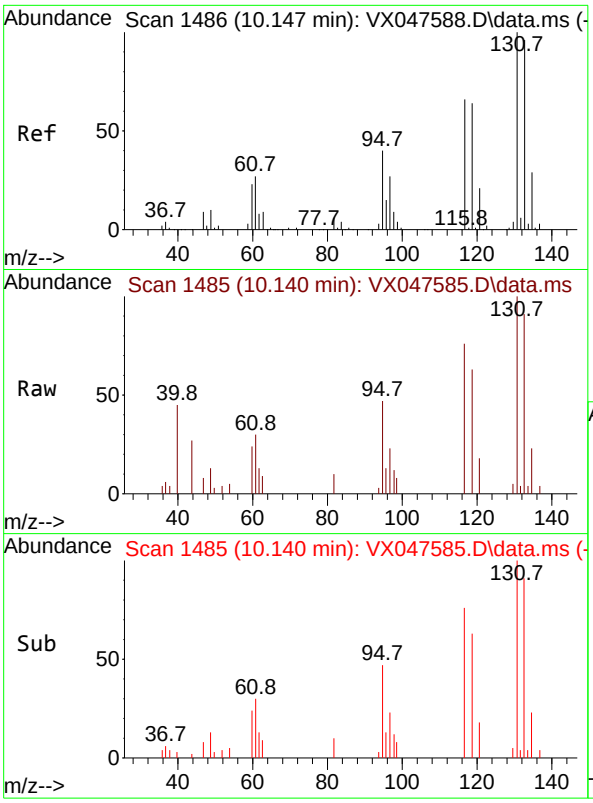


#65
Chlorobenzene
Concen: 0.879 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:112 Resp: 8202

Ion	Ratio	Lower	Upper
112	100		
114	30.7	25.1	37.7

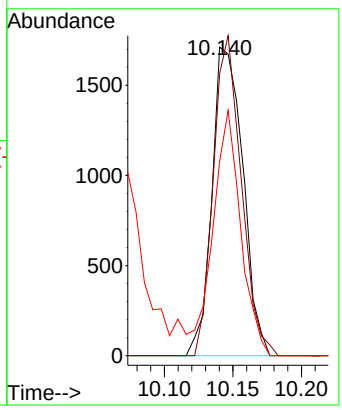




#66
1,1,1,2-Tetrachloroethane
Concen: 0.833 ug/l
RT: 10.140 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:131 Resp: 268

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	0.0	32.0	96.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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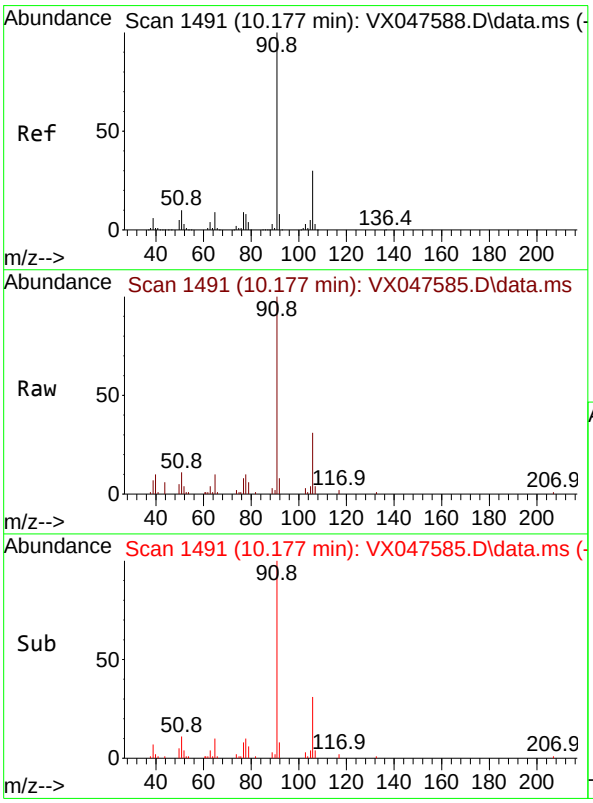
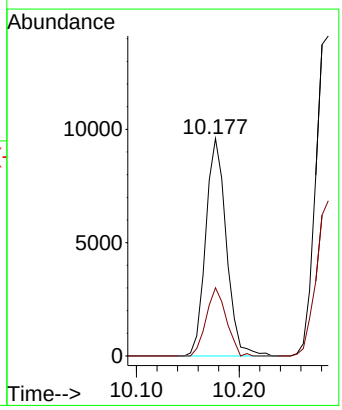
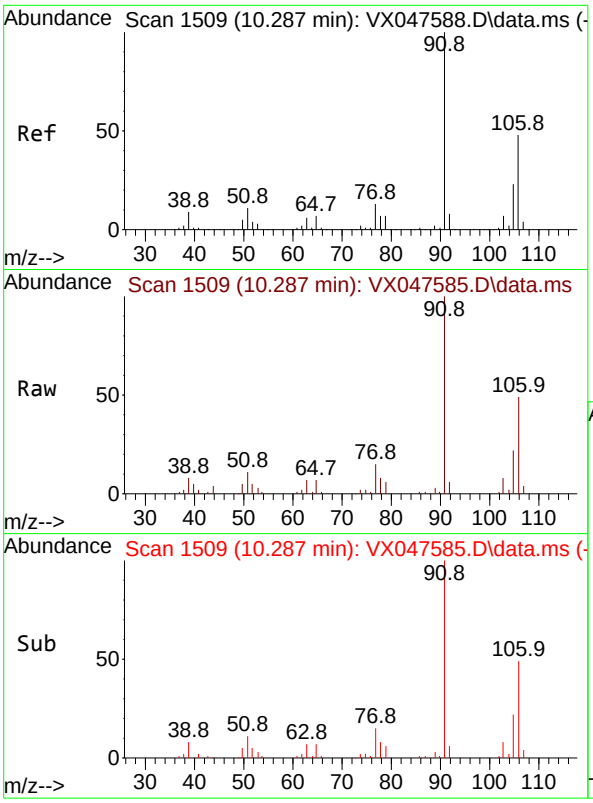


#67
Ethyl Benzene
Concen: 0.829 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 13360

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.3	36.5

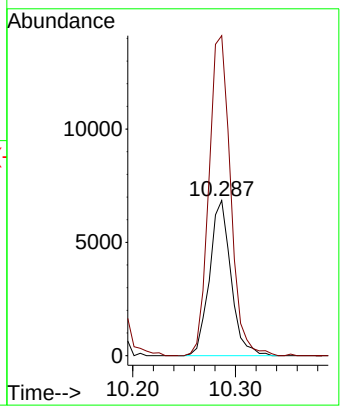




#68
m/p-Xylenes
Concen: 1.655 ug/l
RT: 10.287 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:106 Resp: 992

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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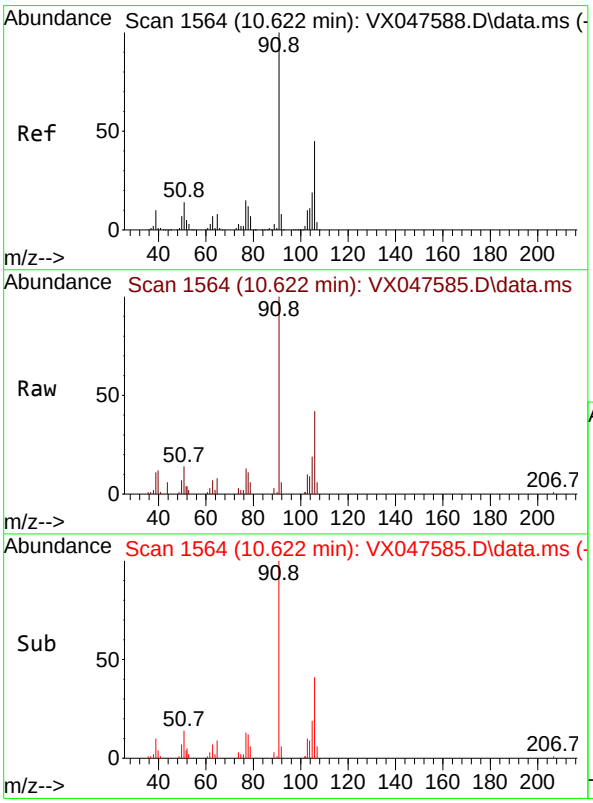
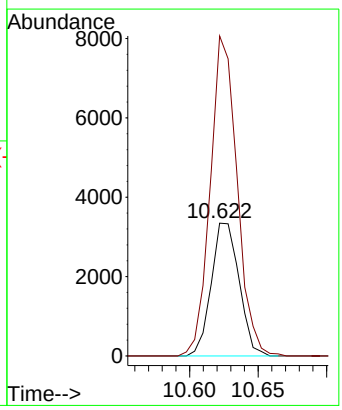
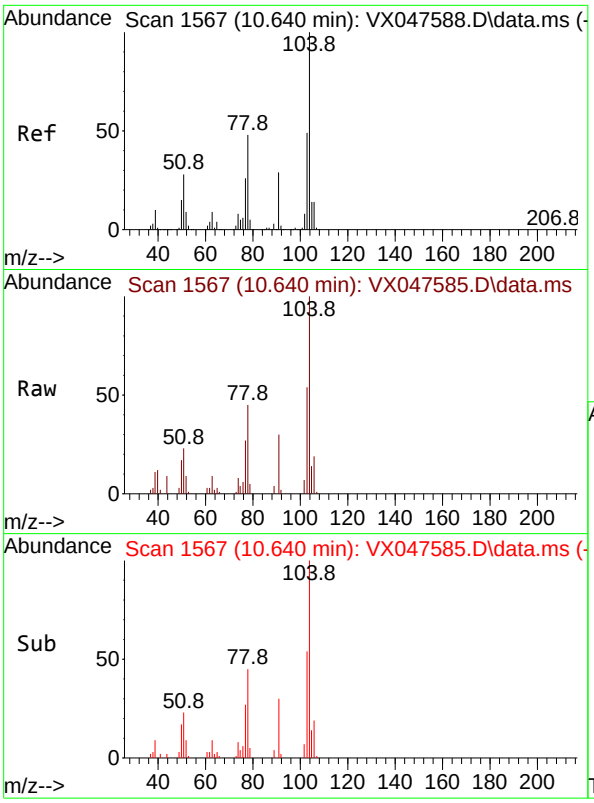


#69
o-Xylene
Concen: 0.816 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:106 Resp: 4734

Ion	Ratio	Lower	Upper
106	100		
91	232.4	111.1	333.4

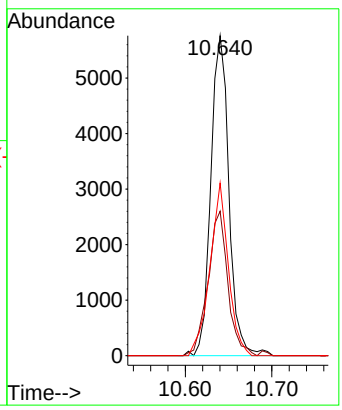




#70
Styrene
Concen: 0.824 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:104 Resp: 837

Ion	Ratio	Lower	Upper
104	100		
78	49.5	43.1	64.7
103	55.0	43.1	64.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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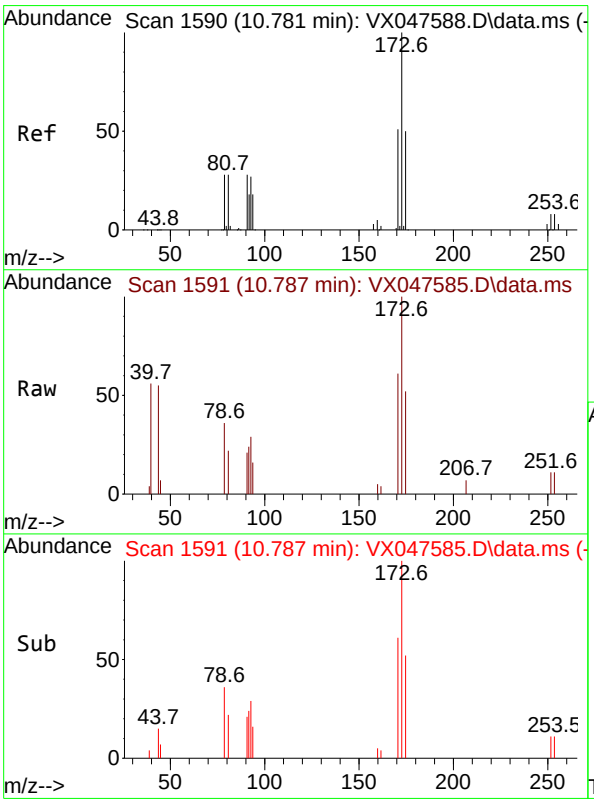
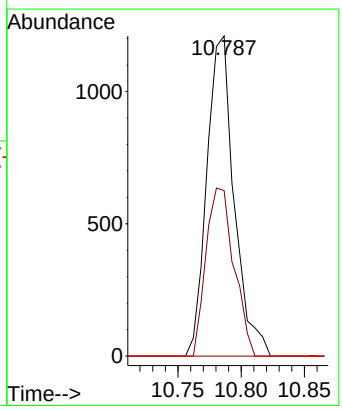
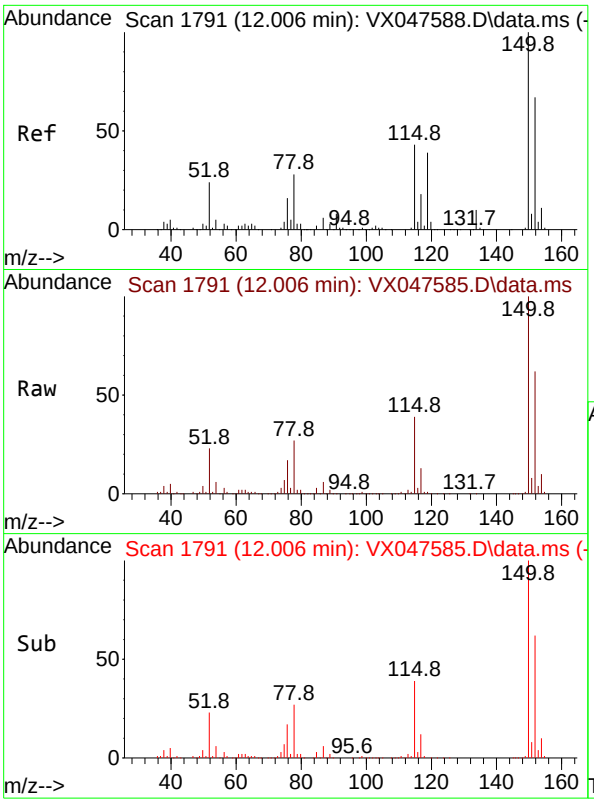


#71
Bromoform
Concen: 0.755 ug/l
RT: 10.787 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:173 Resp: 1816

Ion	Ratio	Lower	Upper
173	100		
175	53.8	24.9	74.6
254	0.0	0.1	0.1#

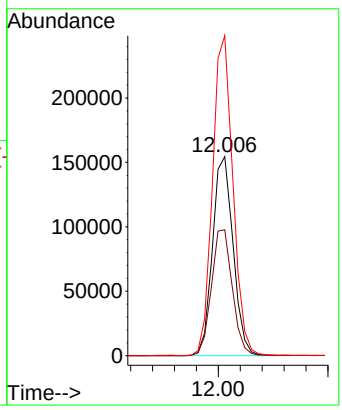




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:152 Resp: 20197

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.9	134.5
150	158.7	0.0	352.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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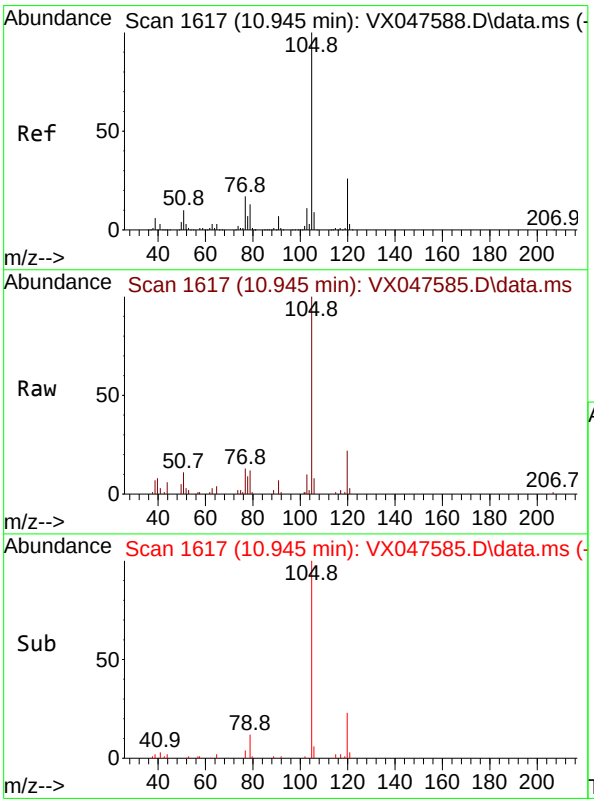
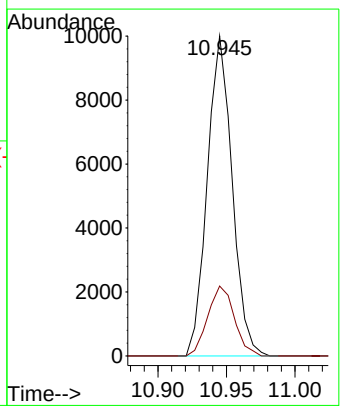
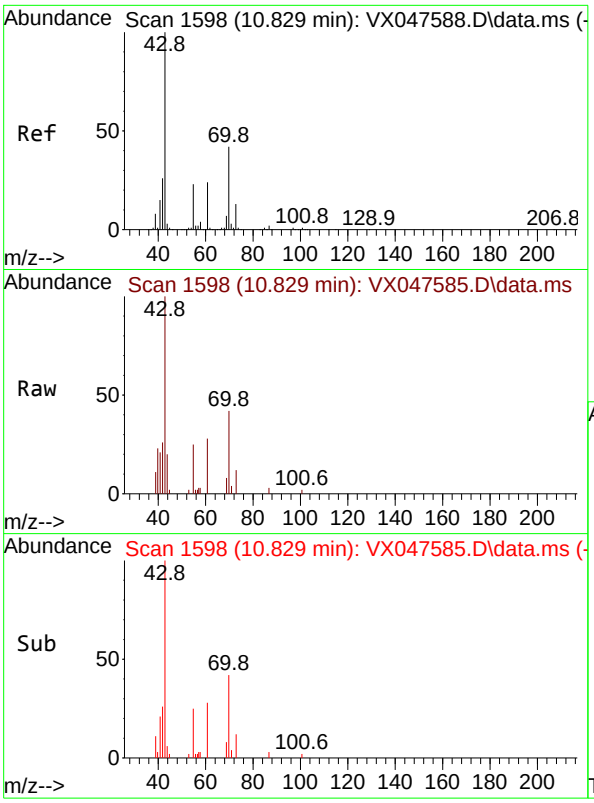


#73
Isopropylbenzene
Concen: 0.822 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 12618

Ion	Ratio	Lower	Upper
105	100		
120	23.4	12.8	38.4

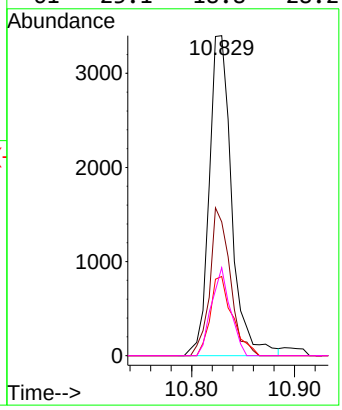




#74
N-amyl acetate
Concen: 0.737 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 515

Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.0	48.0
55	24.3	18.9	28.3
61	23.1	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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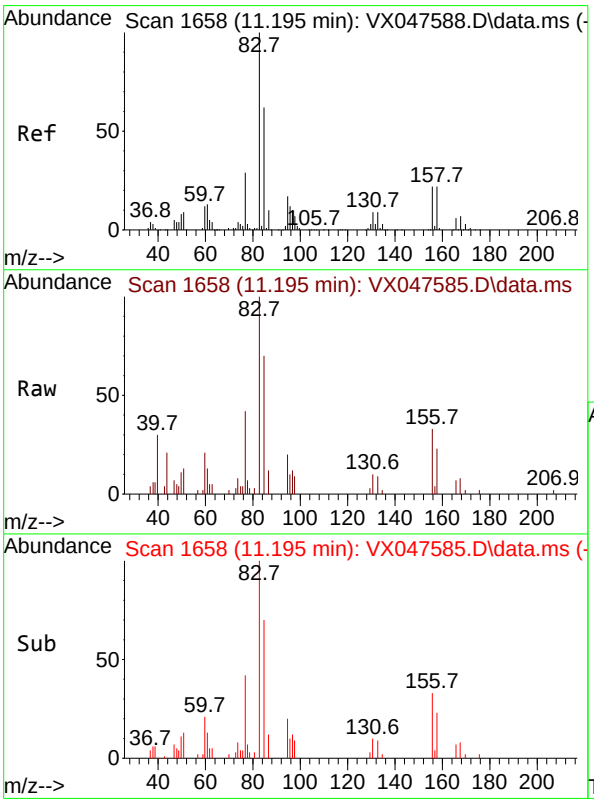
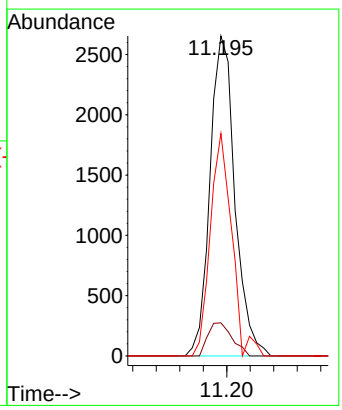
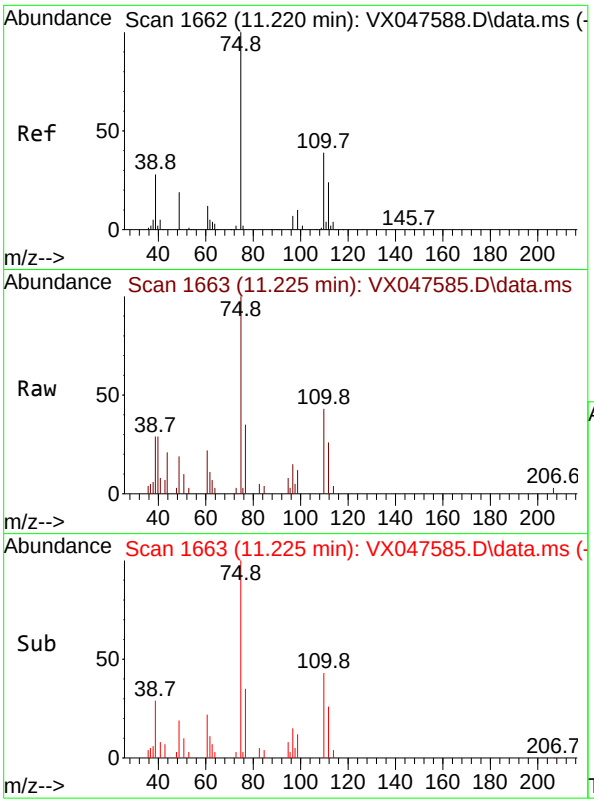


#75
1,1,2,2-Tetrachloroethane
Concen: 0.839 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 3900

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	59.8	31.6	95.0





#76
1,2,3-Trichloropropane
Concen: 0.816 ug/l m
RT: 11.225 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 342

Ion	Ratio	Lower	Upper
75	100		
77	34.6	18.8	56.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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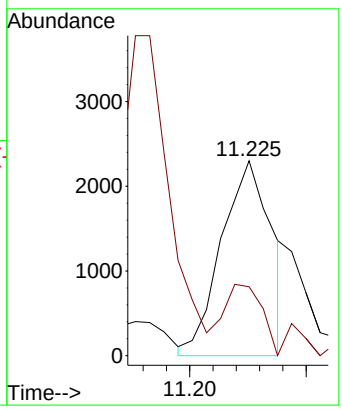
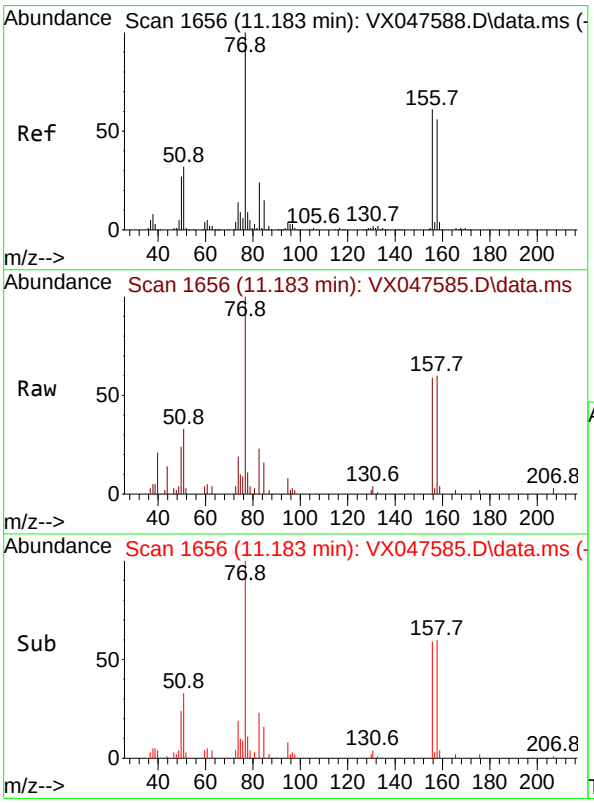
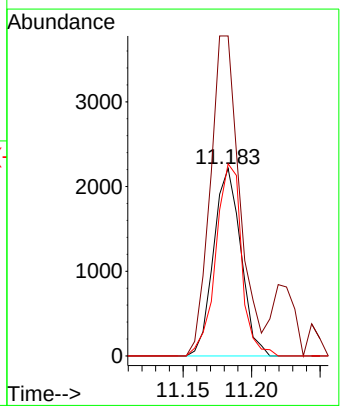


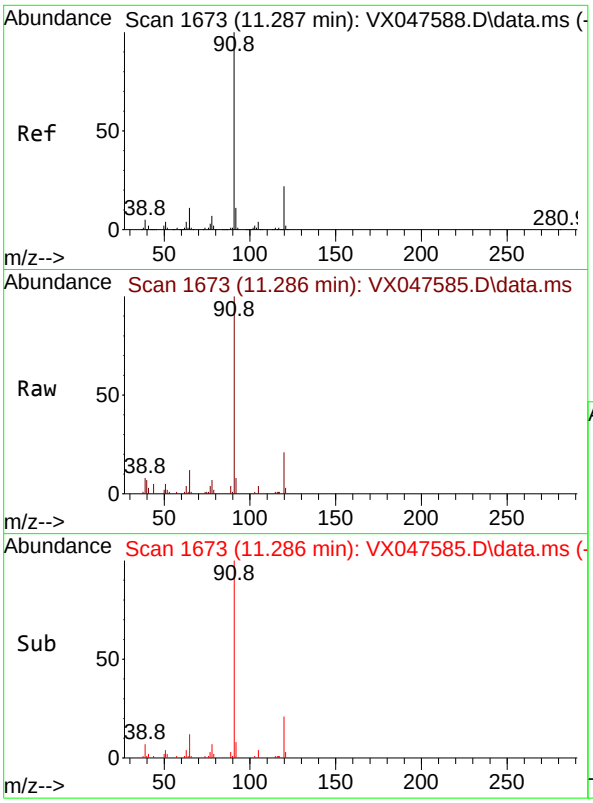


#77
Bromobenzene
Concen: 0.811 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:156 Resp: 3069

Ion	Ratio	Lower	Upper
156	100		
77	182.3	89.7	269.1
158	96.6	47.9	143.6

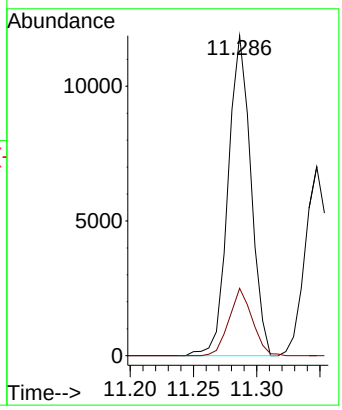




#78
n-propylbenzene
Concen: 0.819 ug/l
RT: 11.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 1486

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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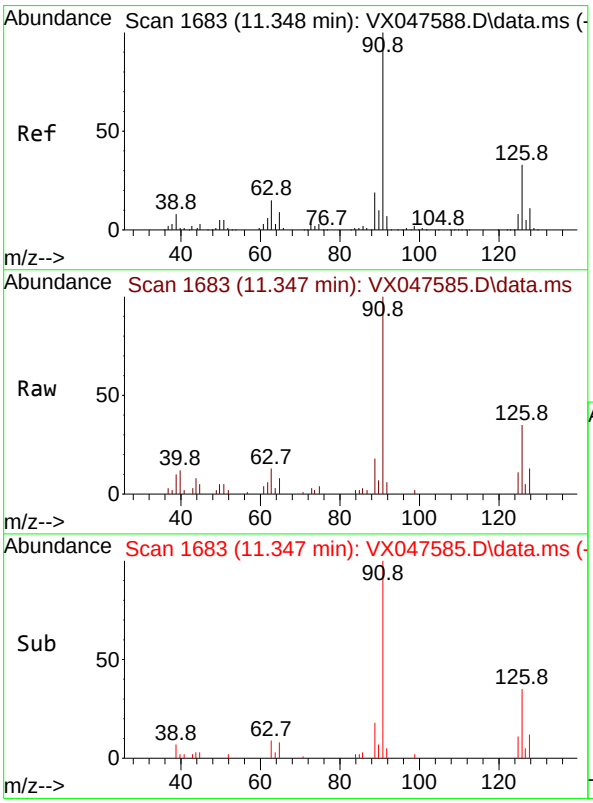
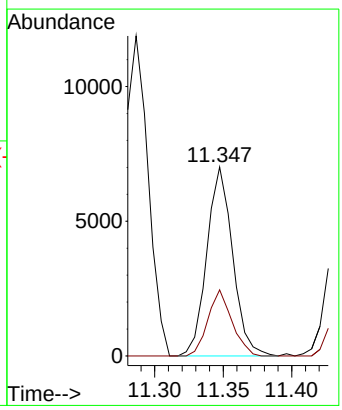
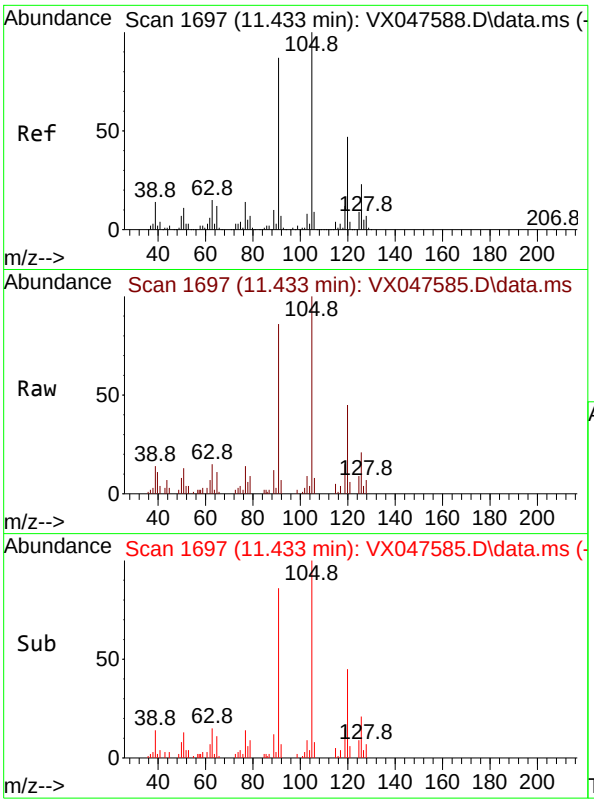


#79
2-Chlorotoluene
Concen: 0.827 ug/l
RT: 11.347 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 9195

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3

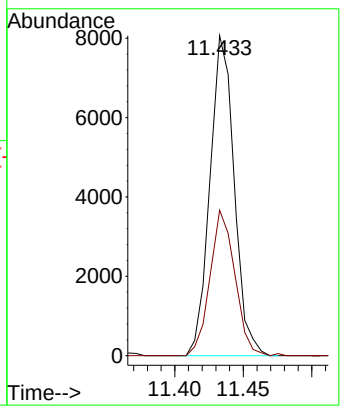




#80
1,3,5-Trimethylbenzene
Concen: 0.787 ug/l
RT: 11.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 992

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.6	70.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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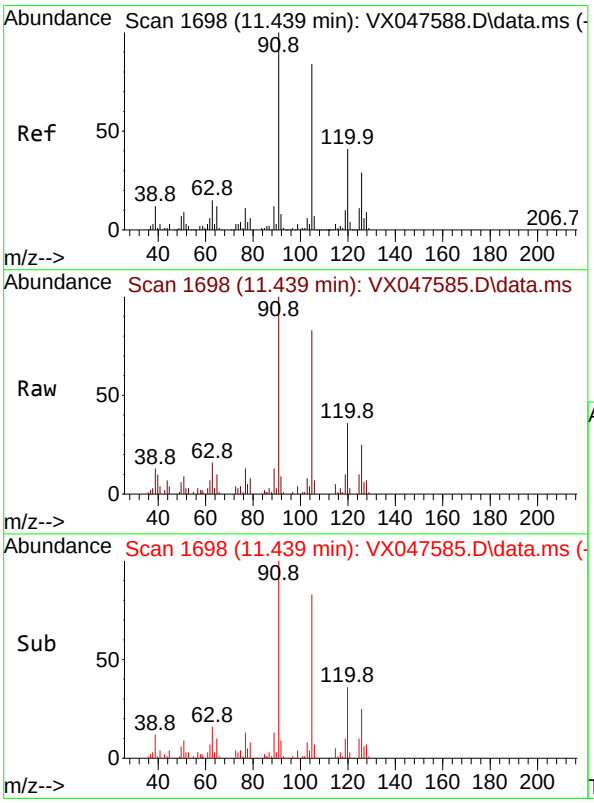
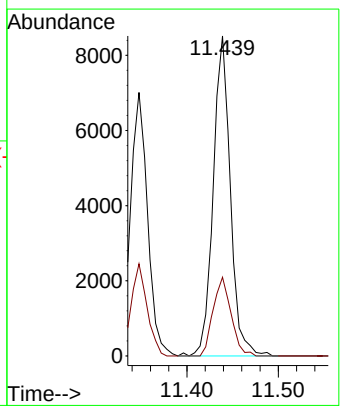
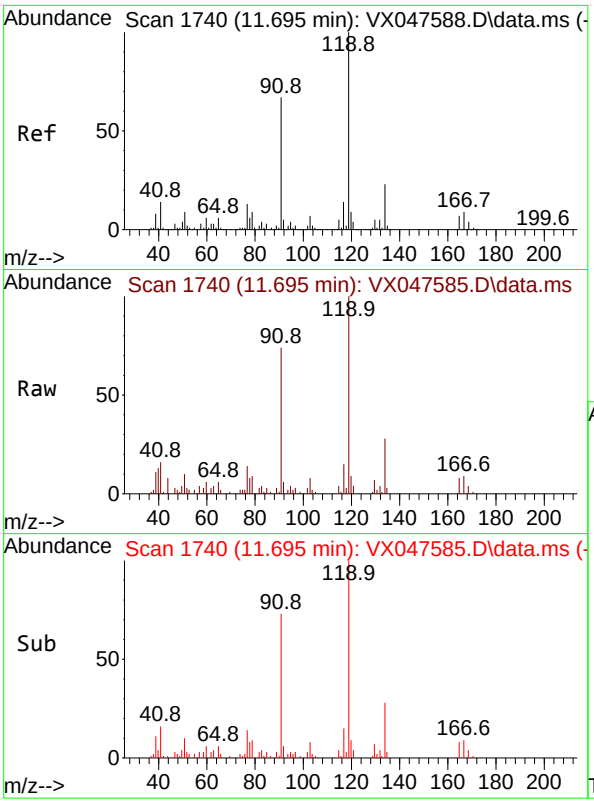


#82
4-Chlorotoluene
Concen: 0.847 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 11123

Ion	Ratio	Lower	Upper
91	100		
126	25.8	14.2	42.6





#83
tert-Butylbenzene
Concen: 0.876 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:119 Resp: 1131

Ion	Ratio	Lower	Upper
119	100		
91	56.1	29.6	88.8
134	22.5	11.0	33.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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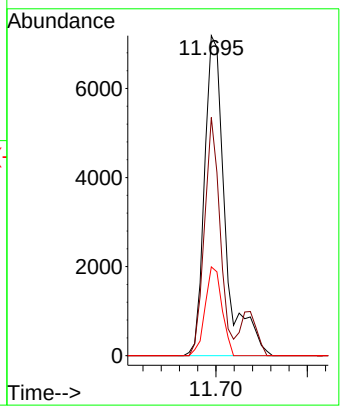
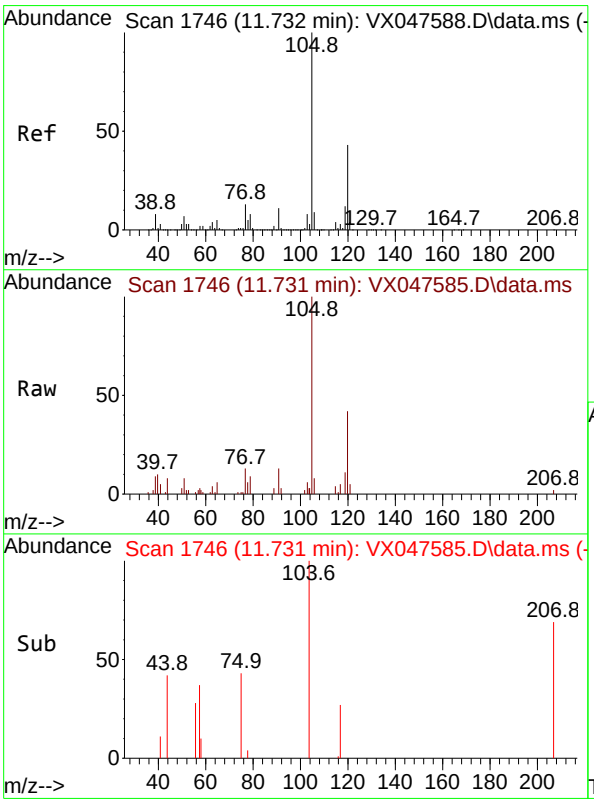
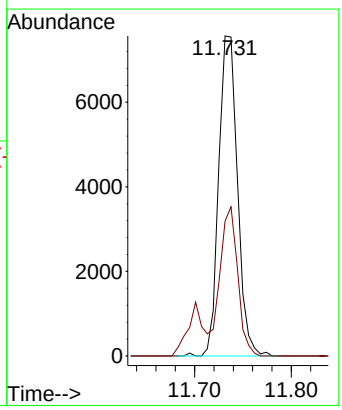


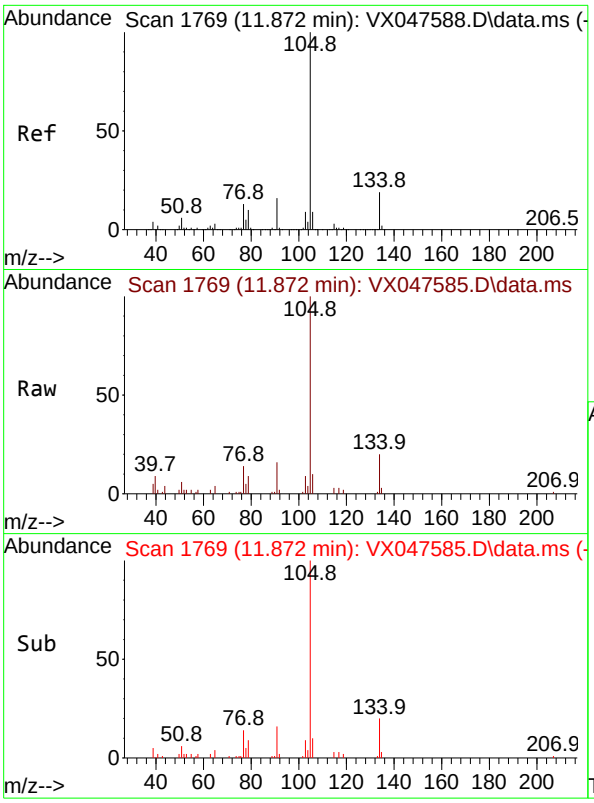


#84
1,2,4-Trimethylbenzene
Concen: 0.796 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 10187

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1

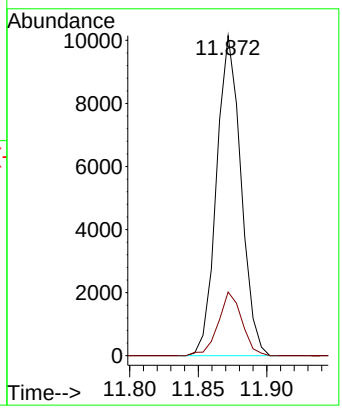




#85
sec-Butylbenzene
Concen: 0.819 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 1256

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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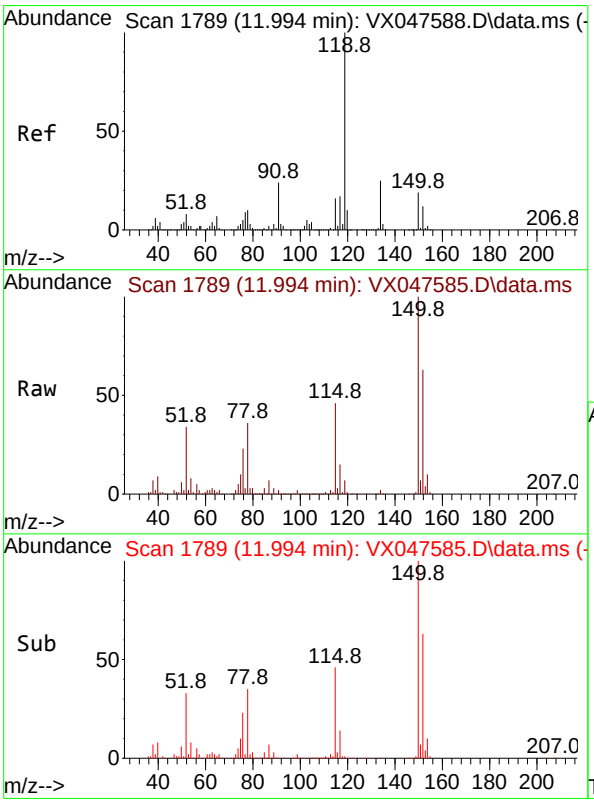
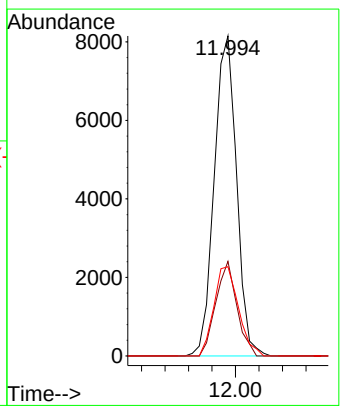
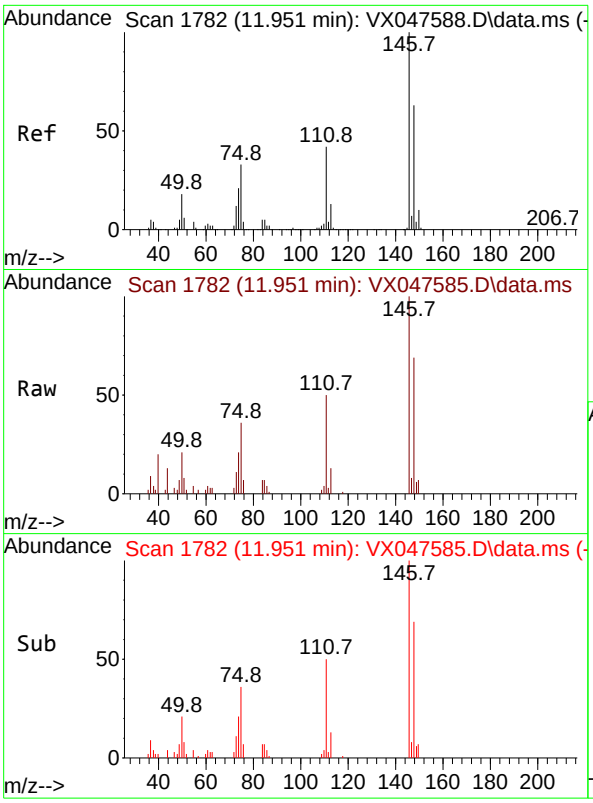


#86
p-Isopropyltoluene
Concen: 0.827 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:119 Resp: 10744

Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.6	37.8
91	30.8	12.6	37.6

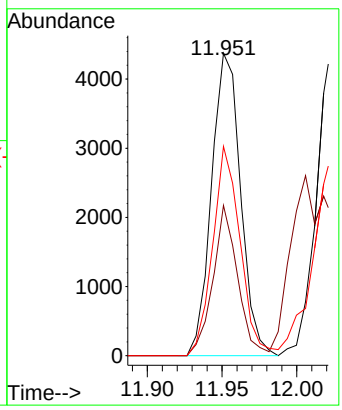




#87
1,3-Dichlorobenzene
Concen: 0.841 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 590

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	65.5	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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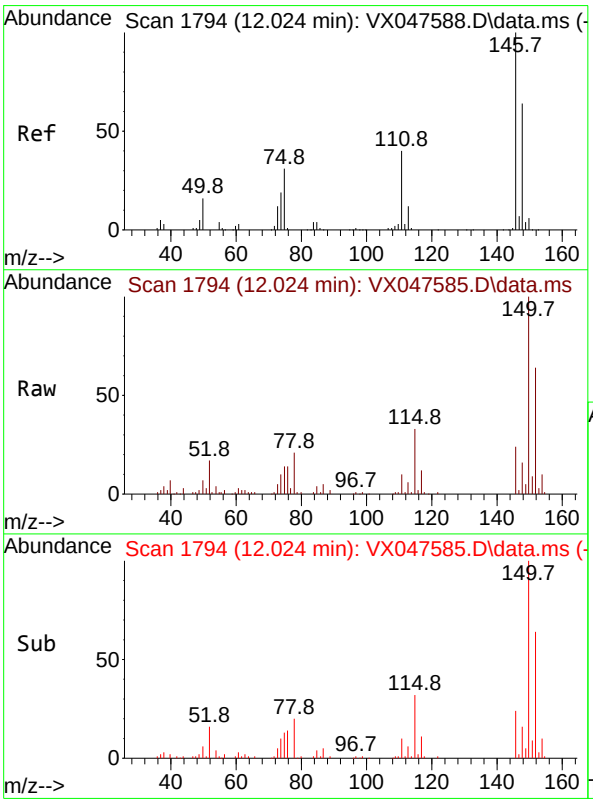
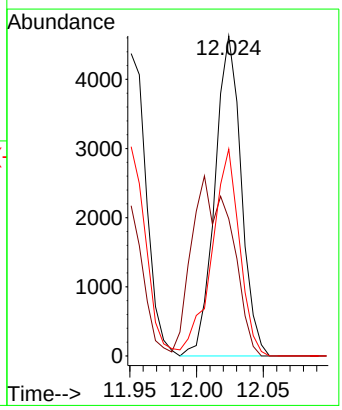
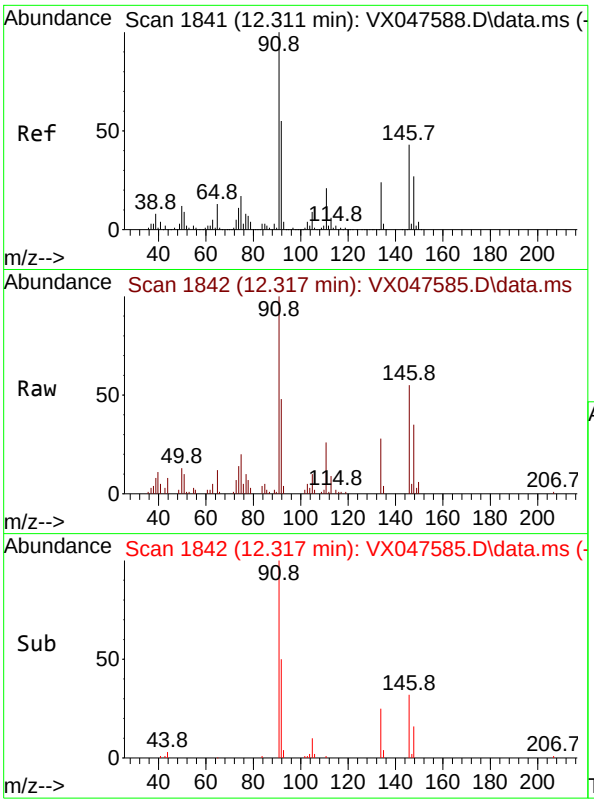


#88
1,4-Dichlorobenzene
Concen: 0.880 ug/l m
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 6341

Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.8	62.4
148	61.1	31.7	95.1

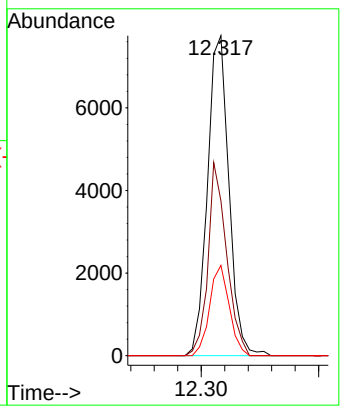




#89
n-Butylbenzene
Concen: 0.816 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 981

Ion	Ratio	Lower	Upper
91	100		
92	52.4	27.6	82.7
134	25.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
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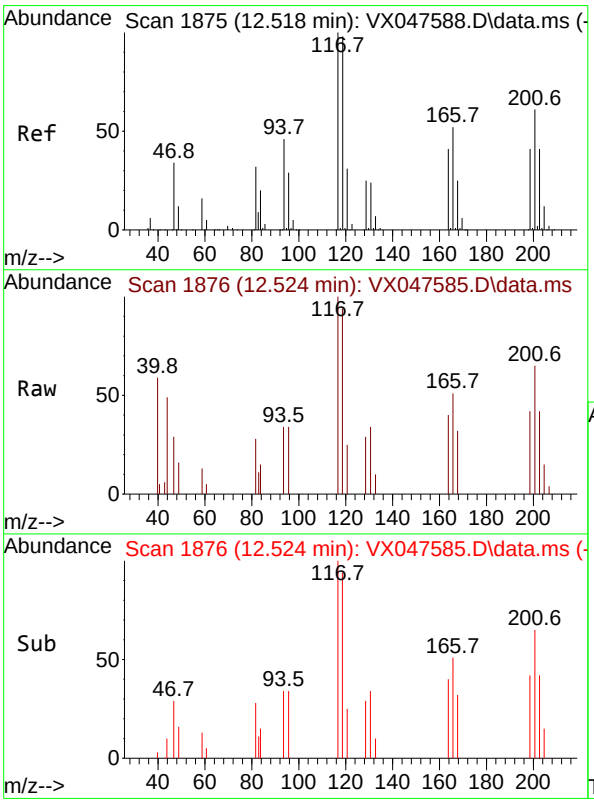
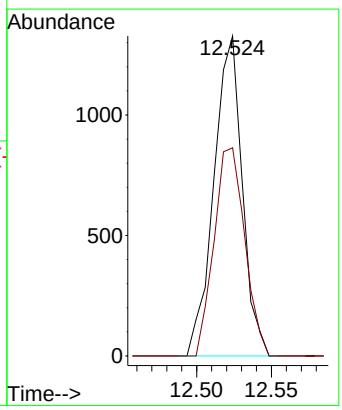
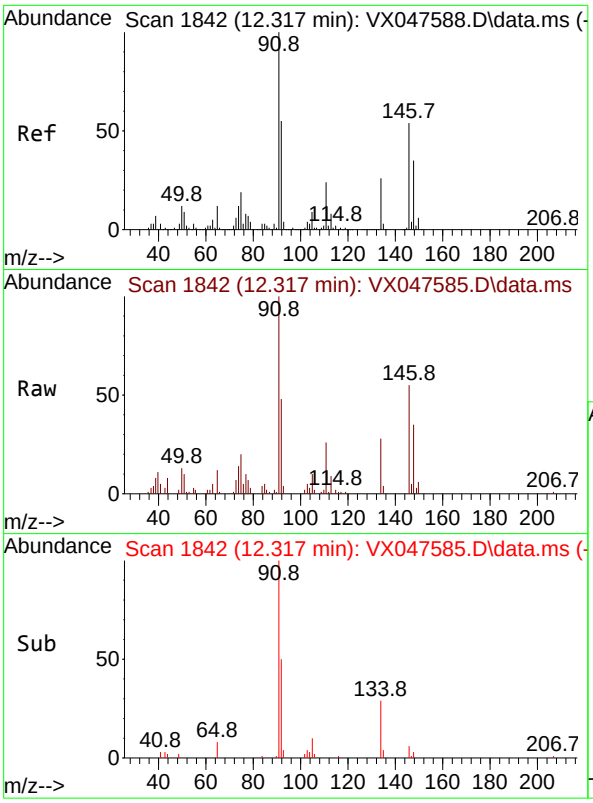


#90
Hexachloroethane
Concen: 0.768 ug/l
RT: 12.524 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 1752

Ion	Ratio	Lower	Upper
117	100		
201	70.4	34.2	102.5

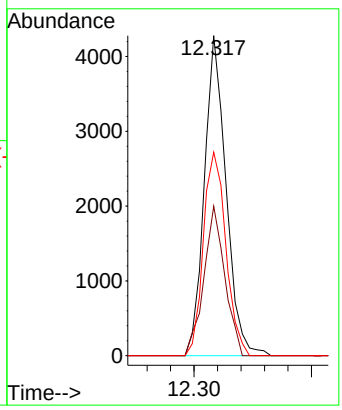




#91
1,2-Dichlorobenzene
Concen: 0.820 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 549

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.2	66.6
148	65.8	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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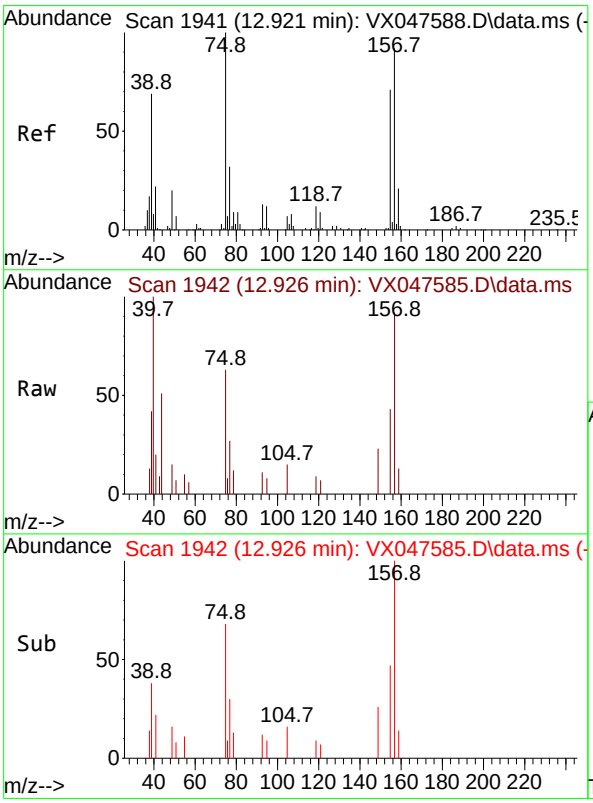
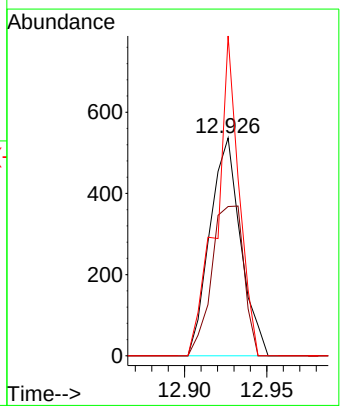
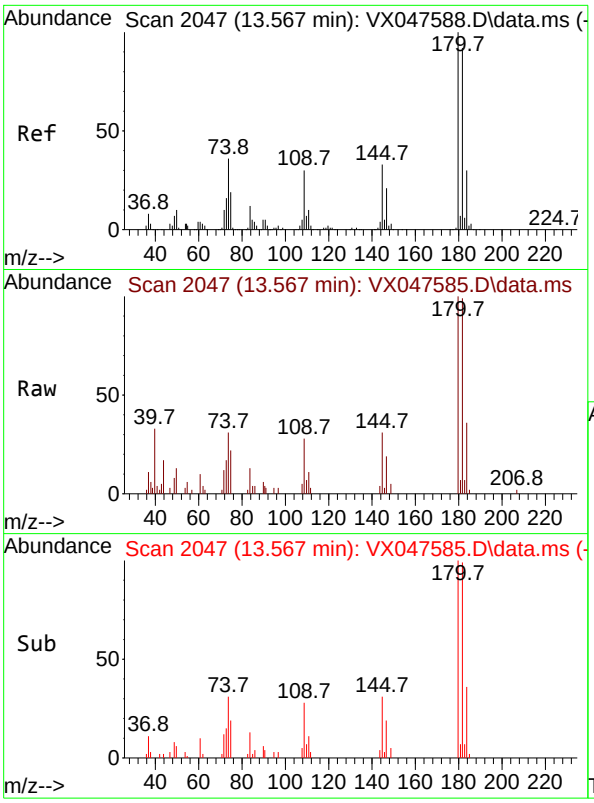


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.742 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 698

Ion	Ratio	Lower	Upper
75	100		
155	72.1	37.7	113.1
157	108.7	49.8	149.4

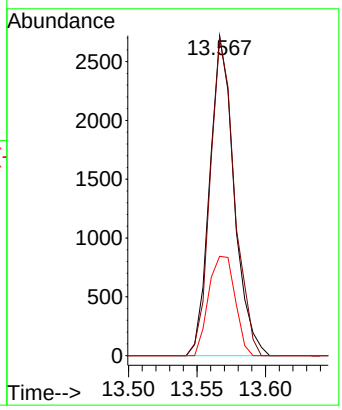




#93
1,2,4-Trichlorobenzene
Concen: 0.772 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:180 Resp: 335

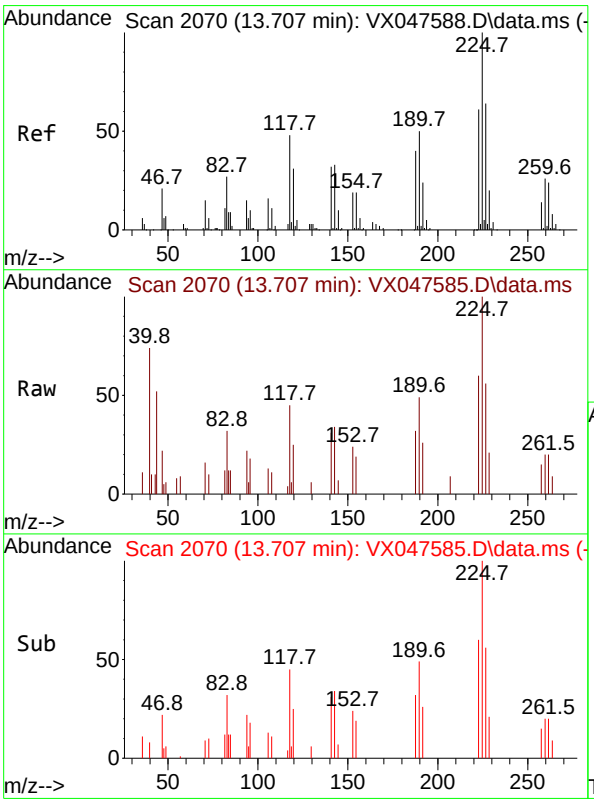
Ion	Ratio	Lower	Upper
180	100		
182	98.6	46.6	139.8
145	33.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

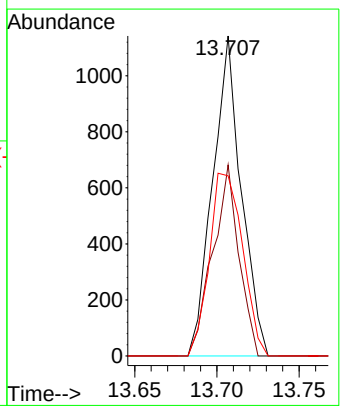
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

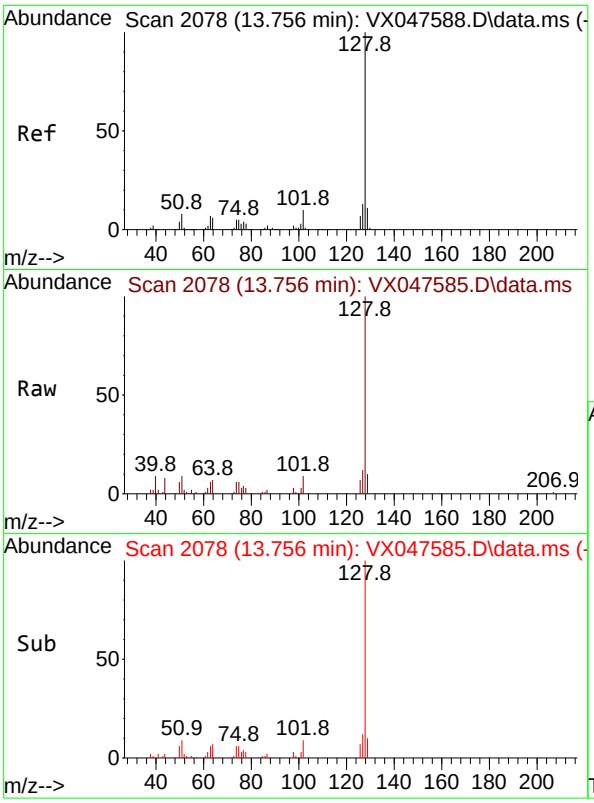


#94
Hexachlorobutadiene
Concen: 0.933 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:225 Resp: 1378

Ion	Ratio	Lower	Upper
225	100		
223	54.8	31.7	95.1
227	66.7	32.0	96.0

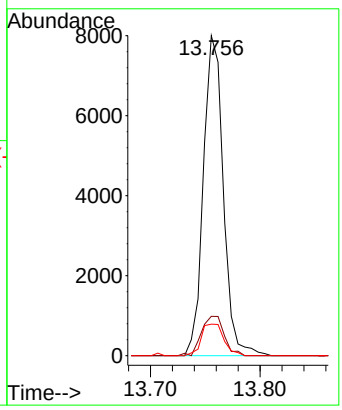




#95
Naphthalene
Concen: 0.763 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:128 Resp: 1011

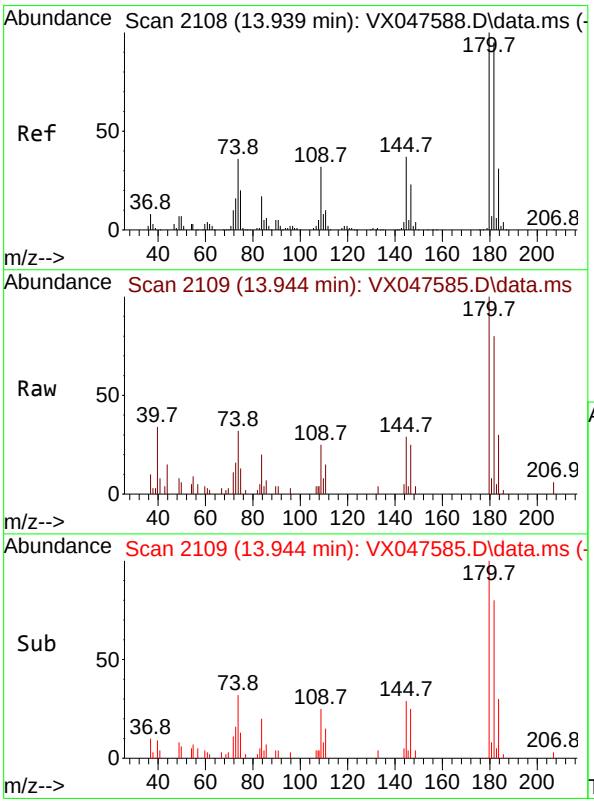
Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.2	15.2
129	11.2	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

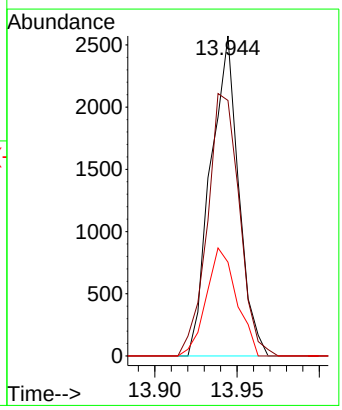
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.752 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:180 Resp: 3043

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.6	142.8
145	36.6	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	198376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	355026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	317288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	156219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	17538	5.554	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	11.100%#		
35) Dibromofluoromethane	5.373	113	12647	5.312	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.620%#		
50) Toluene-d8	8.635	98	43926	5.332	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.660%#		
62) 4-Bromofluorobenzene	11.061	95	16974	5.429	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.860%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	11403	5.551	ug/l	93
3) Chloromethane	1.301	50	14854	5.502	ug/l	99
4) Vinyl Chloride	1.380	62	14147	5.353	ug/l	97
5) Bromomethane	1.618	94	9780	5.836	ug/l	87
6) Chloroethane	1.697	64	8926	5.053	ug/l	96
7) Trichlorofluoromethane	1.898	101	20497	5.223	ug/l	100
8) Diethyl Ether	2.136	74	8039	5.008	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	11729	5.112	ug/l	98
10) Methyl Iodide	2.453	142	17159	4.795	ug/l	98
11) Tert butyl alcohol	2.947	59	8399	23.883	ug/l	99
12) 1,1-Dichloroethene	2.325	96	12131	5.147	ug/l	91
13) Acrolein	2.239	56	7080	21.847	ug/l	95
14) Allyl chloride	2.666	41	25135	5.168	ug/l	99
15) Acrylonitrile	3.062	53	32587	25.016	ug/l	99
16) Acetone	2.374	43	41297	30.079	ug/l	97
17) Carbon Disulfide	2.514	76	34426	5.335	ug/l	100
18) Methyl Acetate	2.703	43	13357	4.371	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	44396	5.160	ug/l	98
20) Methylene Chloride	2.788	84	15307	5.267	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	13937	5.492	ug/l	97
22) Diisopropyl ether	3.757	45	50213	5.327	ug/l	98
23) Vinyl Acetate	3.715	43	192175	25.474	ug/l	99
24) 1,1-Dichloroethane	3.611	63	26292	5.248	ug/l	97
25) 2-Butanone	4.544	43	46651	27.240	ug/l	92
26) 2,2-Dichloropropane	4.465	77	21738	5.220	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	15996	5.147	ug/l	98
28) Bromochloromethane	4.891	49	12047	5.508	ug/l	95
29) Tetrahydrofuran	4.995	42	26729	25.944	ug/l	92
30) Chloroform	5.080	83	27054	5.344	ug/l	99
31) Cyclohexane	5.458	56	23032	5.520	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	22279	5.188	ug/l	96
36) 1,1-Dichloropropene	5.684	75	18455	5.304	ug/l	98
37) Ethyl Acetate	4.708	43	19913	5.345	ug/l #	97
38) Carbon Tetrachloride	5.666	117	20376	5.390	ug/l	96
39) Methylcyclohexane	7.367	83	20900	5.292	ug/l	97
40) Benzene	6.019	78	55996	5.299	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.904	41	9390	4.883 ug/l	95
42) 1,2-Dichloroethane	6.074	62	21117	5.252 ug/l	99
43) Isopropyl Acetate	6.324	43	31304	5.124 ug/l	99
44) Trichloroethene	7.111	130	13576	5.314 ug/l	97
45) 1,2-Dichloropropane	7.415	63	14305	5.287 ug/l	99
46) Dibromomethane	7.568	93	10133	5.146 ug/l	99
47) Bromodichloromethane	7.806	83	21270	5.235 ug/l	99
48) Methyl methacrylate	7.677	41	14959	4.915 ug/l	99
49) 1,4-Dioxane	7.653	88	3017	98.096 ug/l #	90
51) 4-Methyl-2-Pentanone	8.555	43	87492	25.828 ug/l	100
52) Toluene	8.702	92	34314	5.271 ug/l	98
53) t-1,3-Dichloropropene	8.964	75	20863	5.034 ug/l	97
54) cis-1,3-Dichloropropene	8.354	75	23157	5.227 ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	12968	5.166 ug/l	91
56) Ethyl methacrylate	9.104	69	19980	5.068 ug/l	97
57) 1,3-Dichloropropane	9.293	76	22989	5.331 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	37585	27.899 ug/l	98
59) 2-Hexanone	9.415	43	66356	27.275 ug/l	99
60) Dibromochloromethane	9.506	129	14705	5.084 ug/l	95
61) 1,2-Dibromoethane	9.592	107	13461	5.264 ug/l	98
64) Tetrachloroethene	9.256	164	11228	5.428 ug/l	97
65) Chlorobenzene	10.061	112	37507	5.203 ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.147	131	12807	5.149 ug/l	99
67) Ethyl Benzene	10.177	91	65908	5.299 ug/l	100
68) m/p-Xylenes	10.287	106	49132	10.613 ug/l	99
69) o-Xylene	10.628	106	23300	5.204 ug/l	98
70) Styrene	10.640	104	40872	5.210 ug/l	99
71) Bromoform	10.781	173	9298	5.006 ug/l #	97
73) Isopropylbenzene	10.945	105	61029	5.139 ug/l	100
74) N-amyl acetate	10.823	43	26969	4.980 ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	18462	5.138 ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	15982m	4.927 ug/l	
77) Bromobenzene	11.183	156	15066	5.150 ug/l	99
78) n-propylbenzene	11.287	91	72900	5.192 ug/l	100
79) 2-Chlorotoluene	11.348	91	44663	5.194 ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	50535	5.179 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	5413	4.364 ug/l	91
82) 4-Chlorotoluene	11.439	91	52294	5.149 ug/l	100
83) tert-Butylbenzene	11.695	119	50350	5.041 ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	51583	5.214 ug/l	100
85) sec-Butylbenzene	11.872	105	62507	5.268 ug/l	99
86) p-Isopropyltoluene	11.994	119	52674	5.244 ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	28116	5.175 ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	29519	5.294 ug/l	93
89) n-Butylbenzene	12.317	91	47953	5.159 ug/l	99
90) Hexachloroethane	12.518	117	8830	5.007 ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	26409	5.102 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	3412	4.690 ug/l	99
93) 1,2,4-Trichlorobenzene	13.567	180	17167	5.103 ug/l	98
94) Hexachlorobutadiene	13.707	225	5894	5.158 ug/l	99
95) Naphthalene	13.756	128	49257	4.808 ug/l	99
96) 1,2,3-Trichlorobenzene	13.939	180	15400	4.921 ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

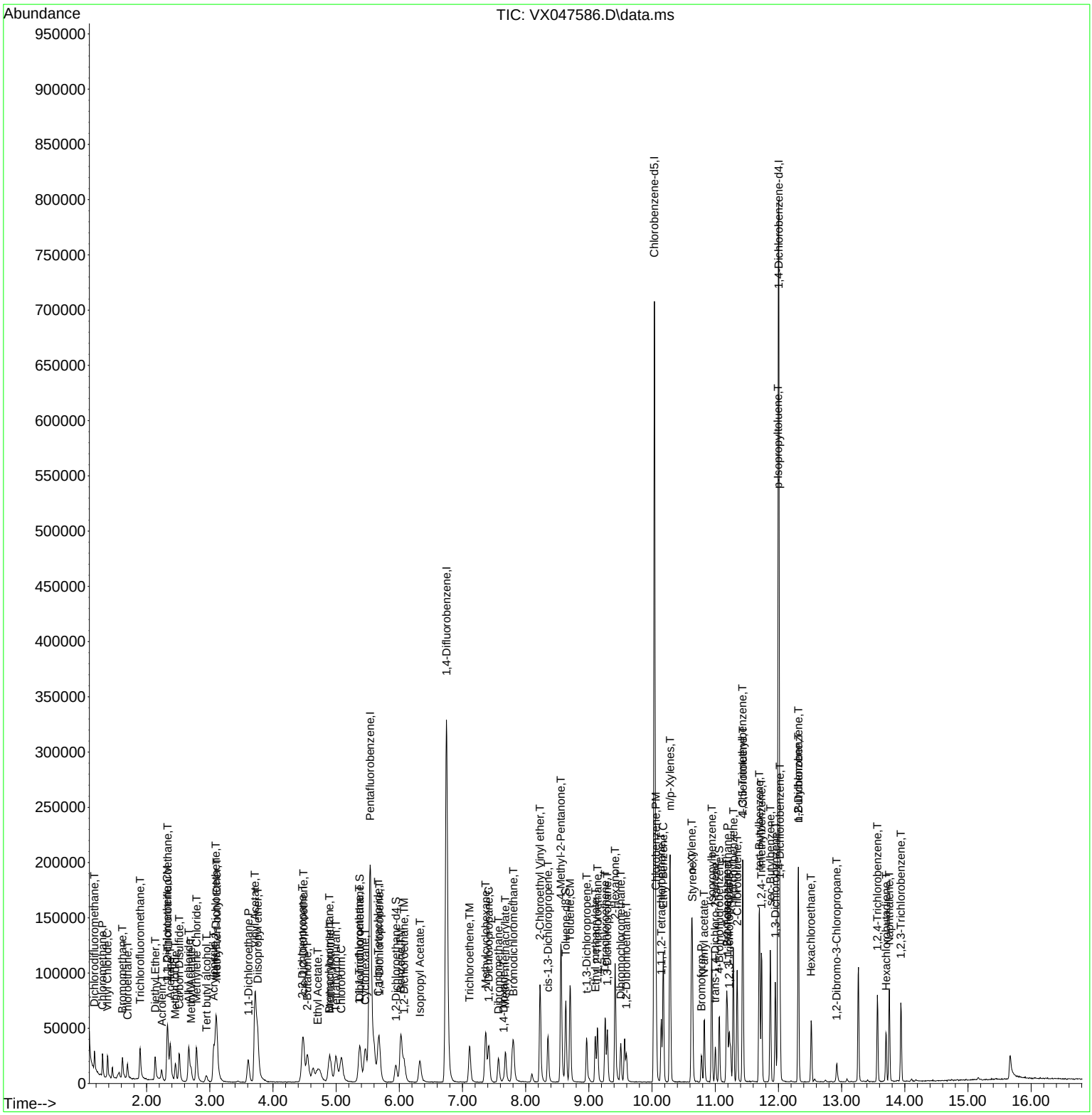
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

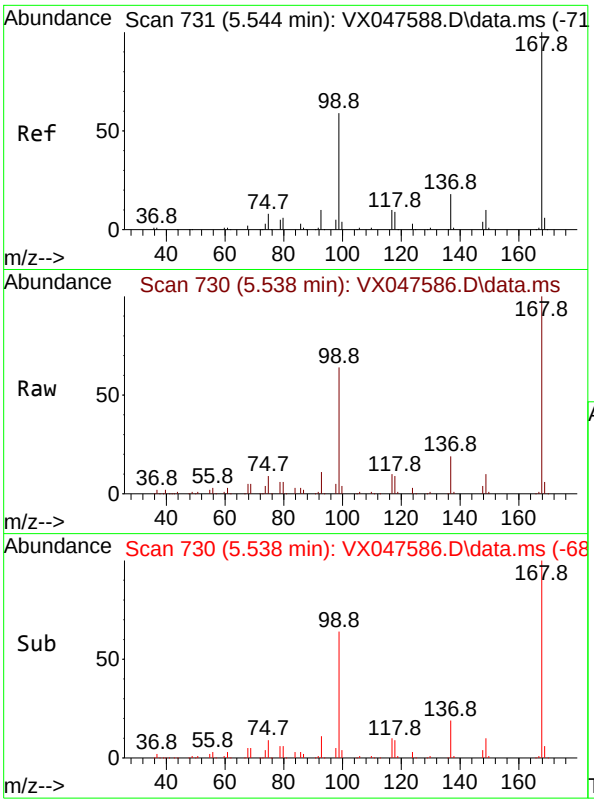
Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

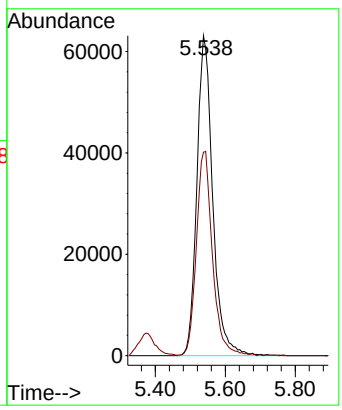




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:168 Resp: 19837

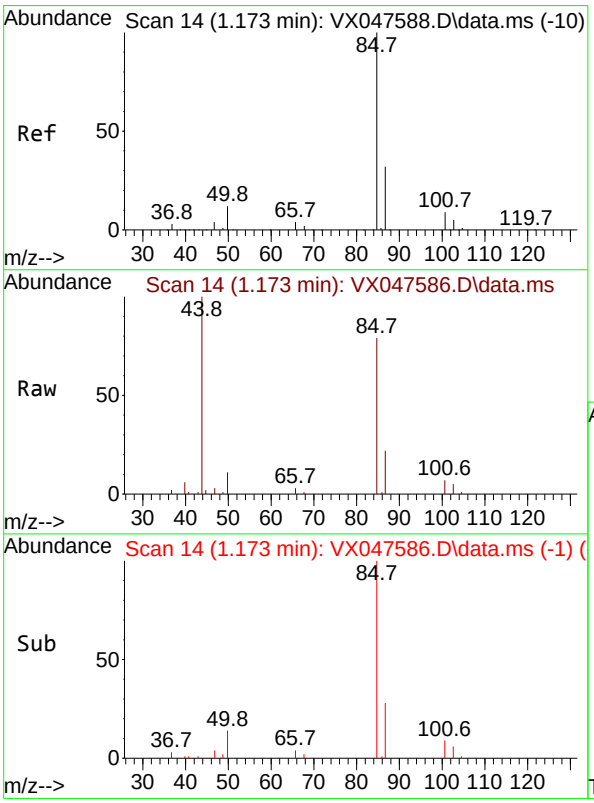
Ion	Ratio	Lower	Upper
168	100		
99	63.5	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

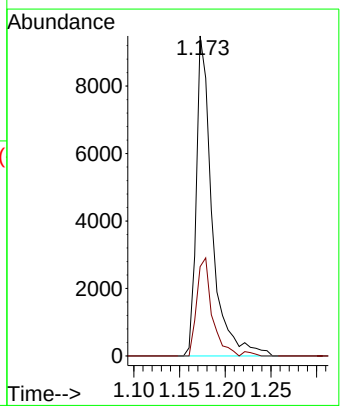
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

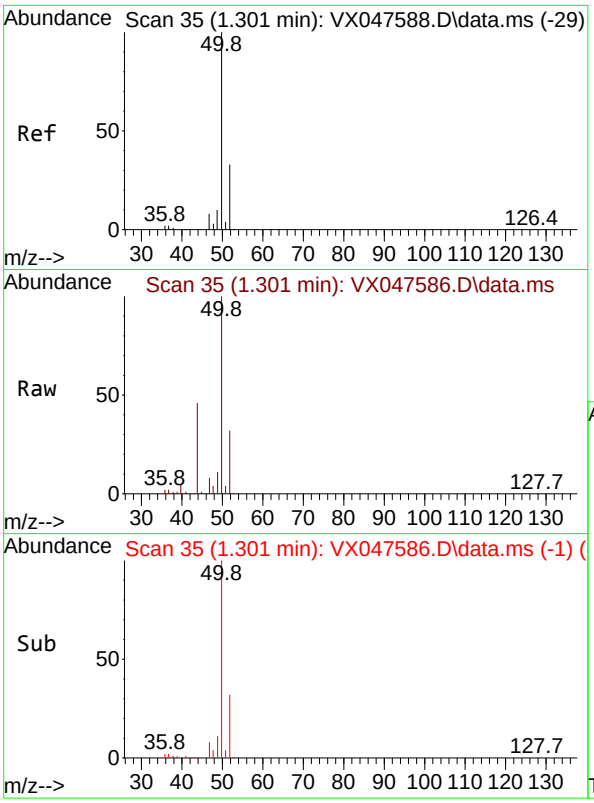


#2
Dichlorodifluoromethane
Concen: 5.551 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 85 Resp: 11403

Ion	Ratio	Lower	Upper
85	100		
87	27.9	15.8	47.3

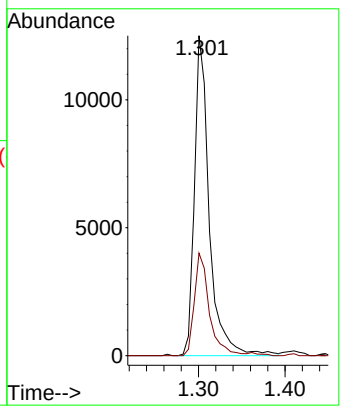




#3
Chloromethane
Concen: 5.502 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 50 Resp: 1485

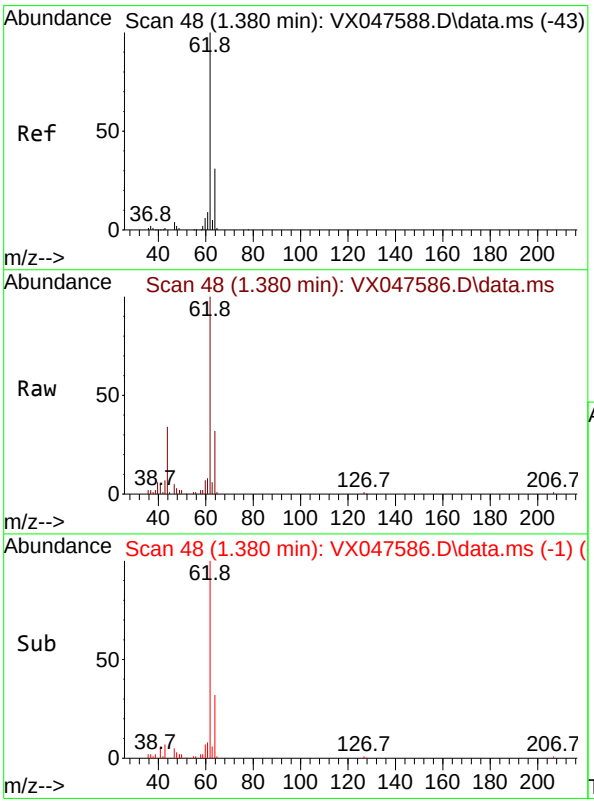
Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

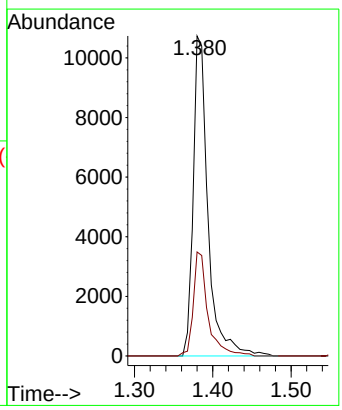
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

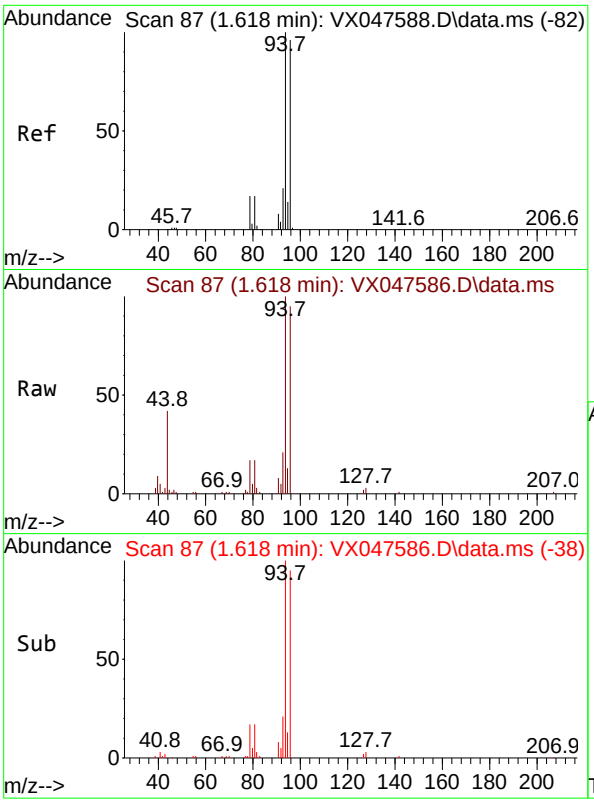


#4
Vinyl Chloride
Concen: 5.353 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 14147

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.9	37.3

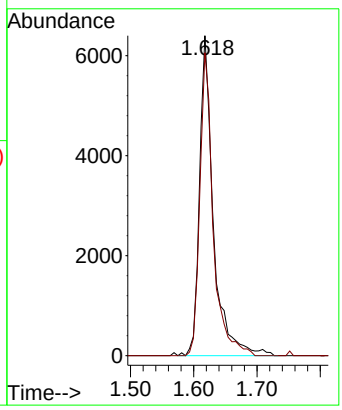




#5
Bromomethane
Concen: 5.836 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 94 Resp: 978

Ion	Ratio	Lower	Upper
94	100		
96	83.6	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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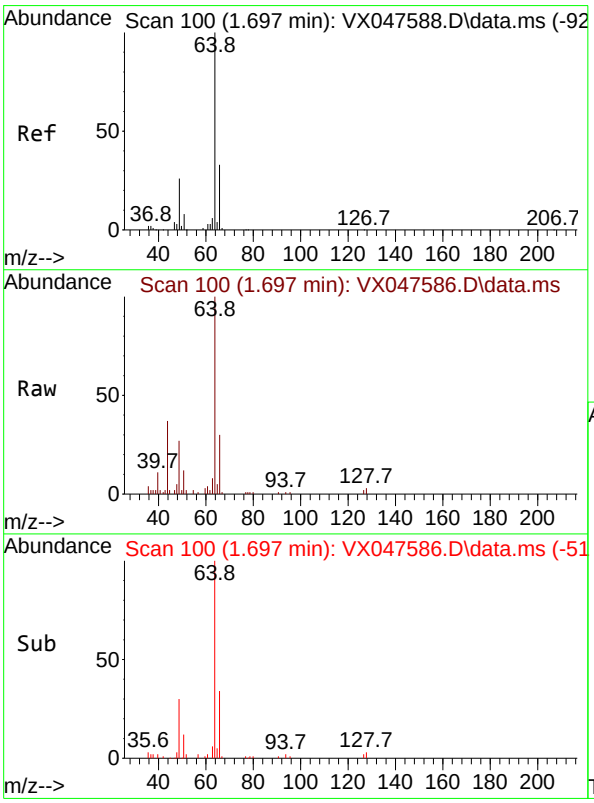
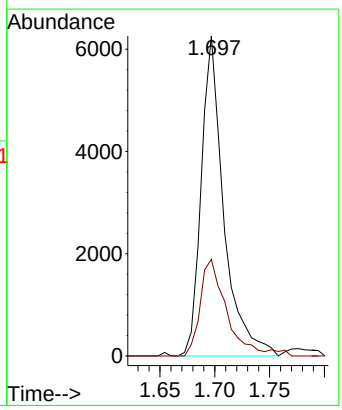
Supervised By :Mahesh Dadoda 09/18/2025

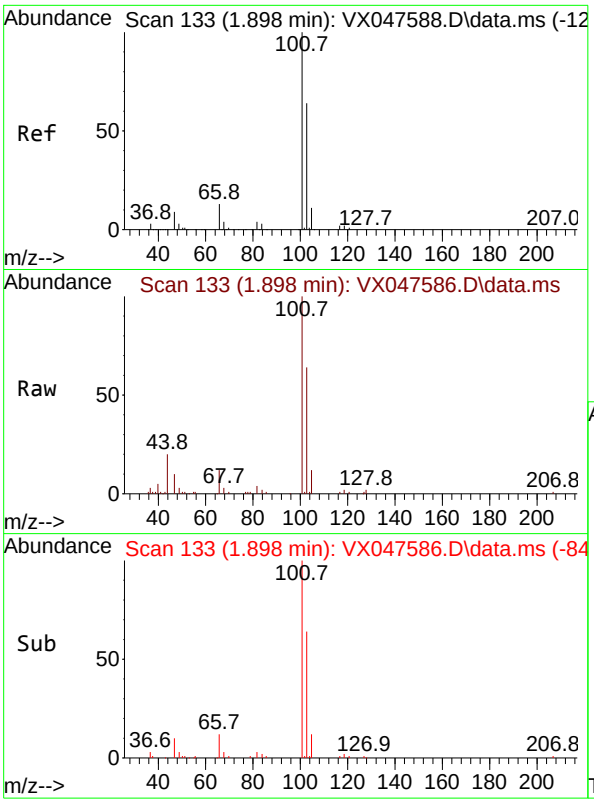


#6
Chloroethane
Concen: 5.053 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 64 Resp: 8926

Ion	Ratio	Lower	Upper
64	100		
66	30.2	26.1	39.1

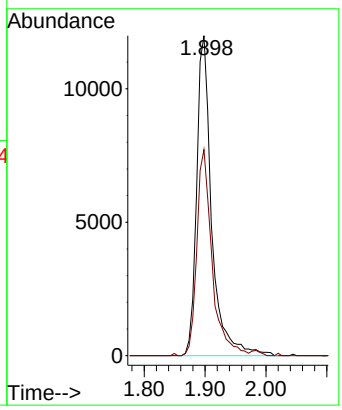




#7
Trichlorofluoromethane
Concen: 5.223 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:101 Resp: 2049

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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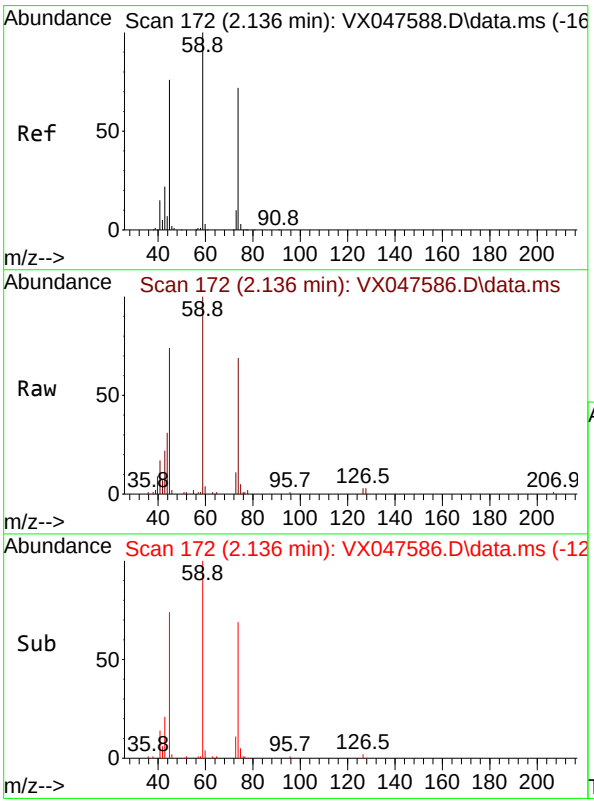
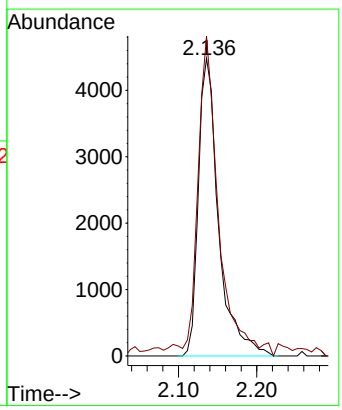
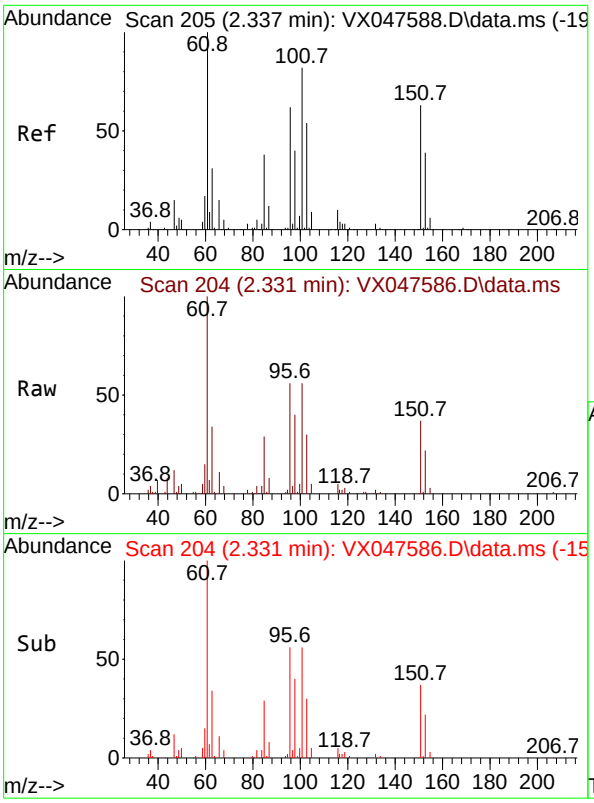


#8
Diethyl Ether
Concen: 5.008 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 74 Resp: 8039

Ion	Ratio	Lower	Upper
74	100		
45	111.7	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.112 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:101 Resp: 1172

Ion	Ratio	Lower	Upper
101	100		
85	47.5	35.5	53.3
151	75.0	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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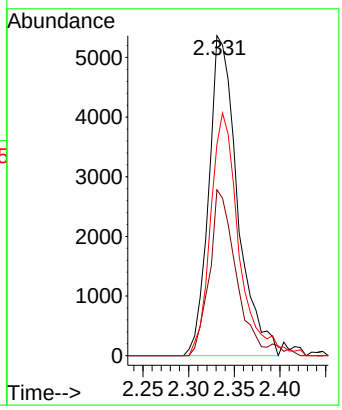
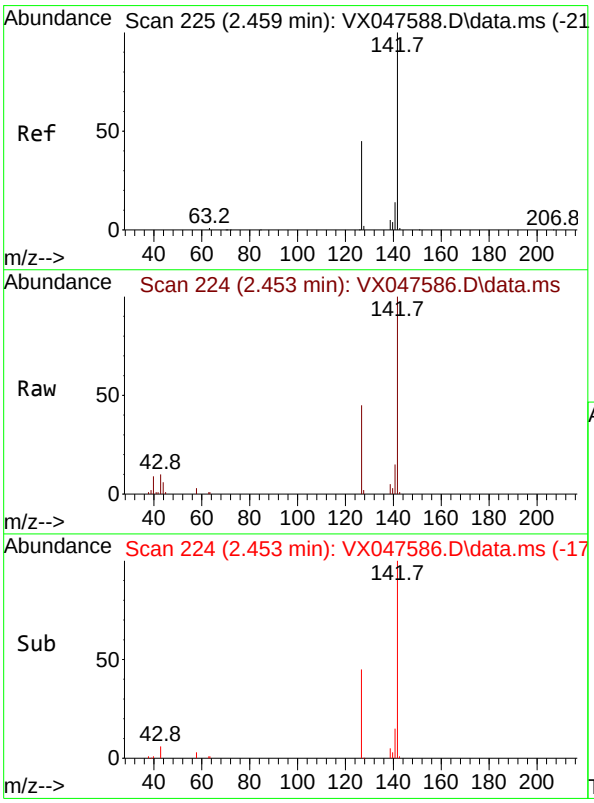
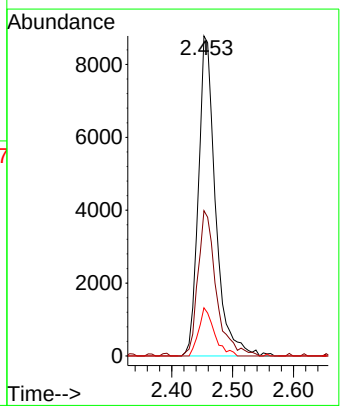


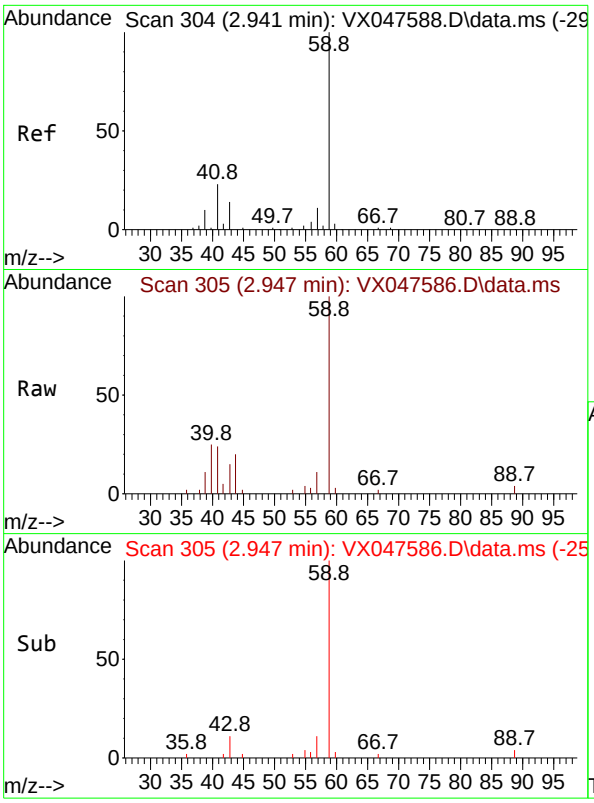


#10
Methyl Iodide
Concen: 4.795 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:142 Resp: 17159

Ion	Ratio	Lower	Upper
142	100		
127	48.4	37.2	55.8
141	13.8	11.4	17.0

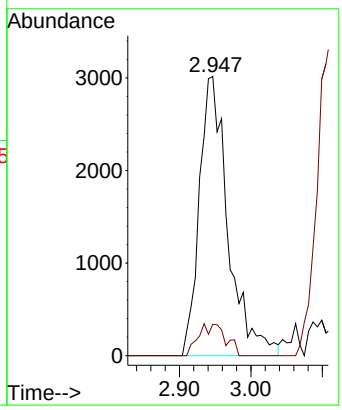




#11
Tert butyl alcohol
Concen: 23.883 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 59 Resp: 839

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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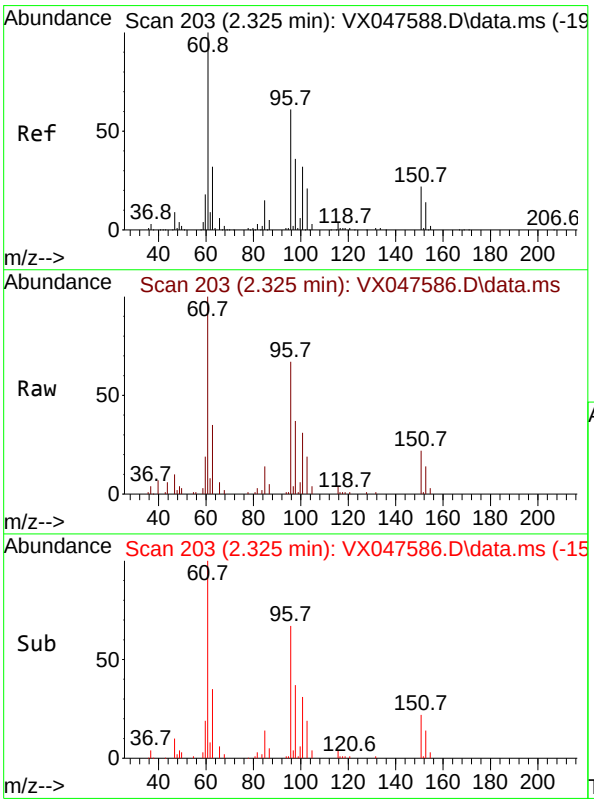
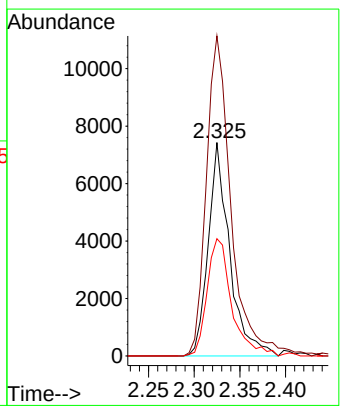
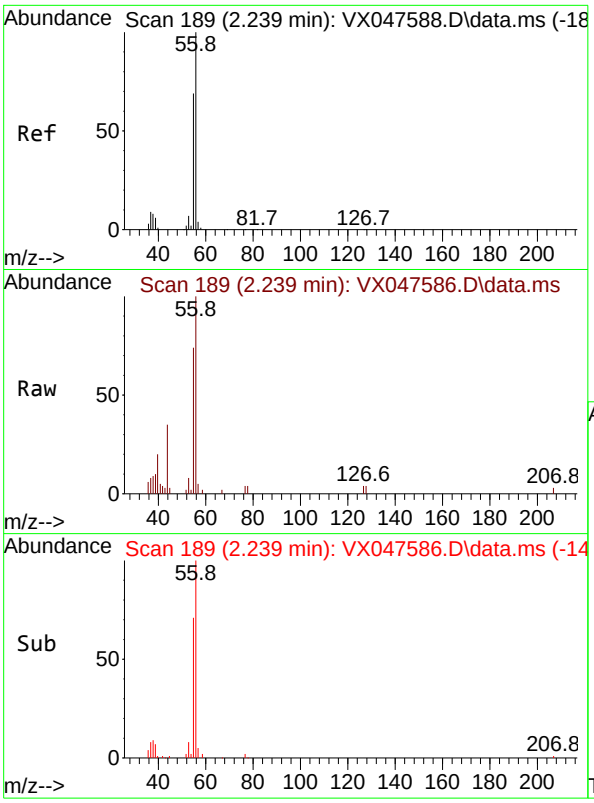


#12
1,1-Dichloroethene
Concen: 5.147 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 12131

Ion	Ratio	Lower	Upper
96	100		
61	149.9	131.0	196.6
98	54.9	47.7	71.5

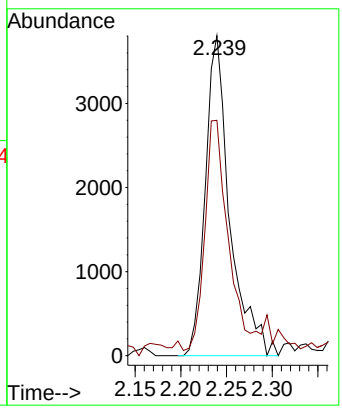




#13
Acrolein
Concen: 21.847 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 56 Resp: 708

Ion	Ratio	Lower	Upper
56	100		
55	67.1	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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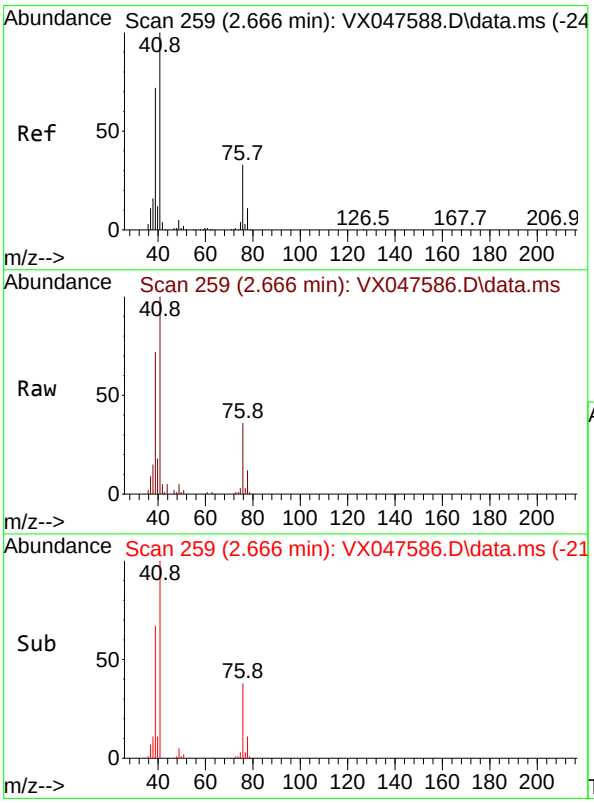
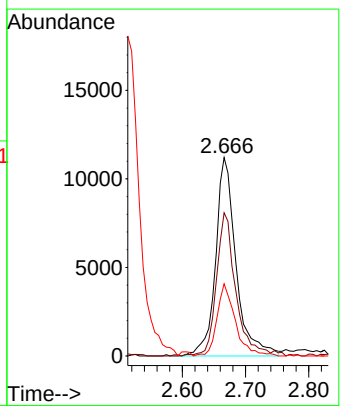
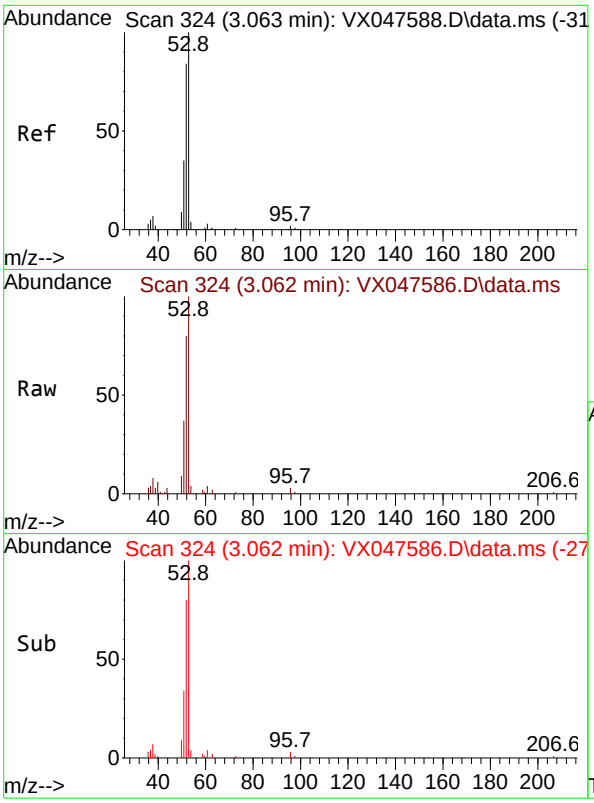


#14
Allyl chloride
Concen: 5.168 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 25135

Ion	Ratio	Lower	Upper
41	100		
39	69.1	54.7	82.1
76	32.4	25.7	38.5

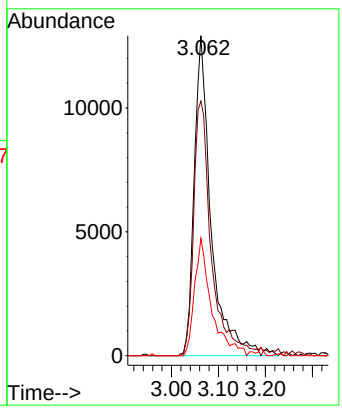




#15
Acrylonitrile
Concen: 25.016 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 53 Resp: 3258

Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	36.5	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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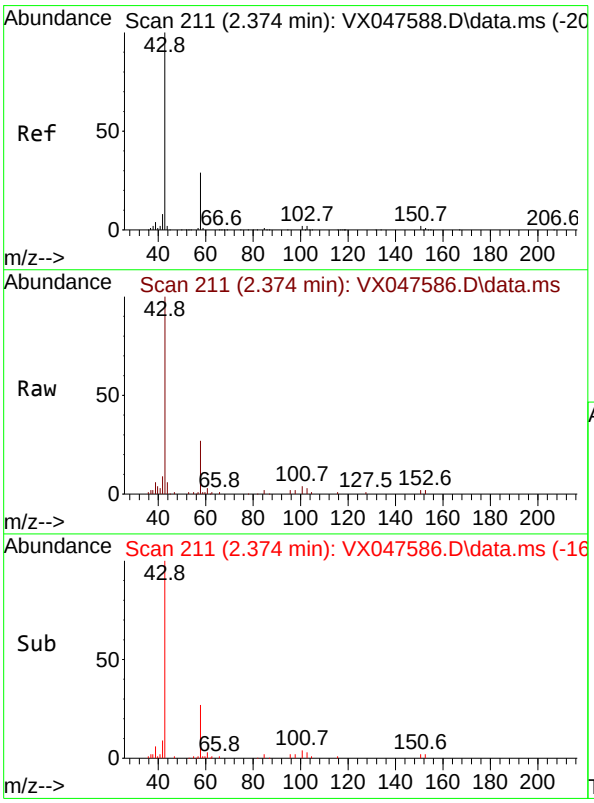
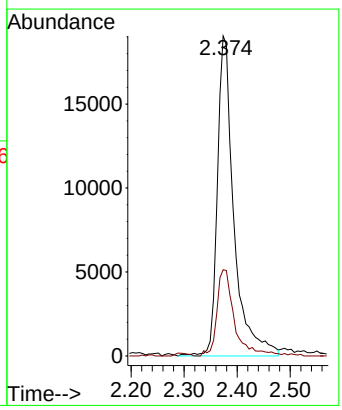
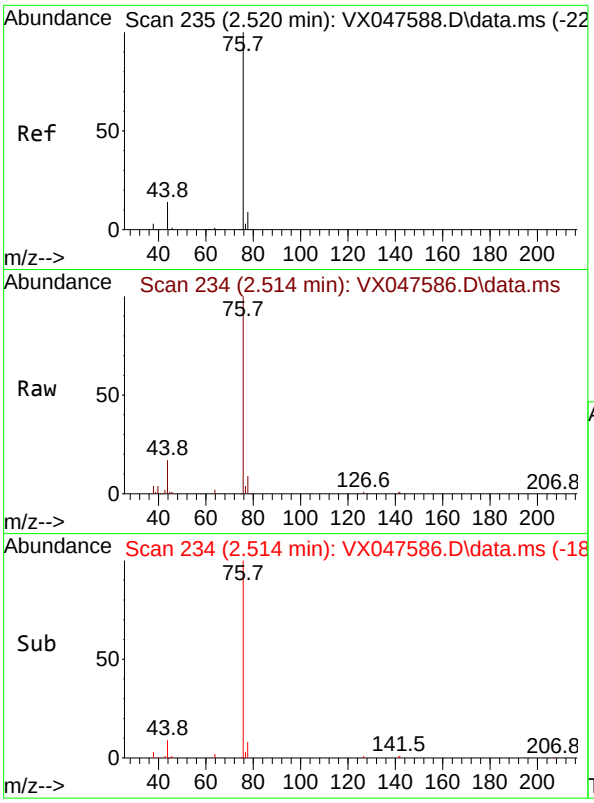


#16
Acetone
Concen: 30.079 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 41297

Ion	Ratio	Lower	Upper
43	100		
58	27.6	23.4	35.0

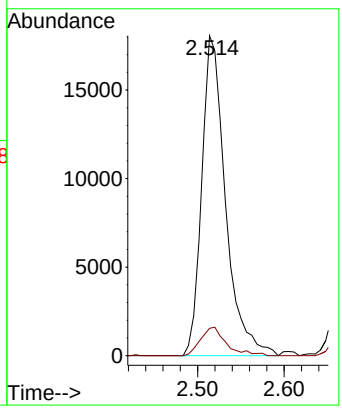




#17
Carbon Disulfide
Concen: 5.335 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 76 Resp: 3442

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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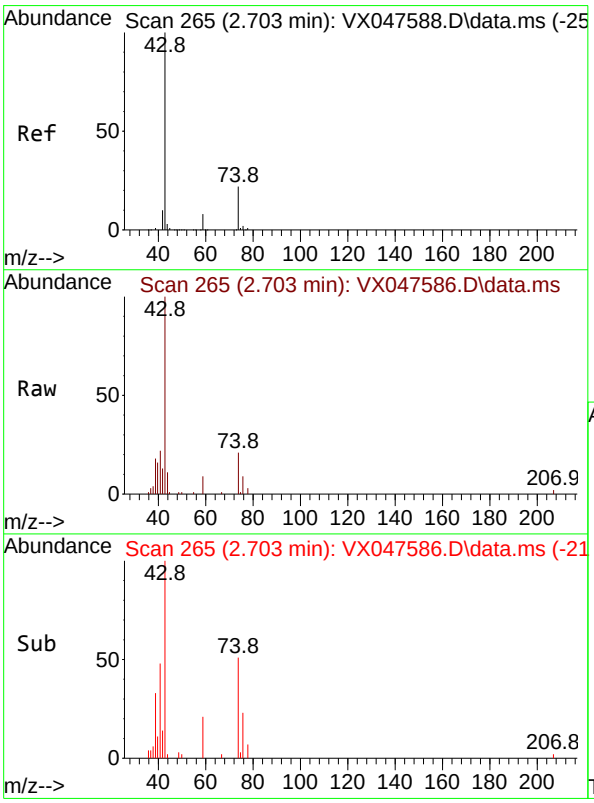
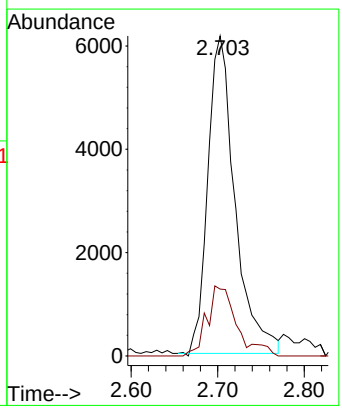
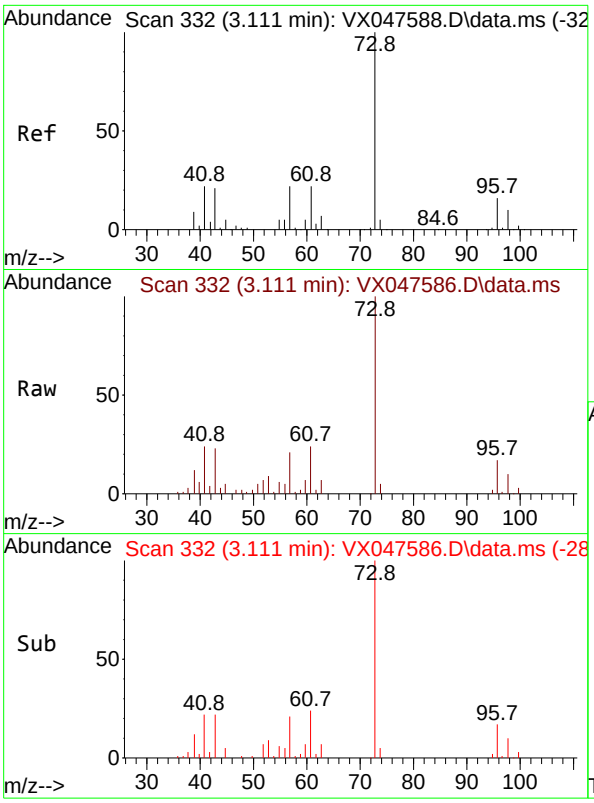


#18
Methyl Acetate
Concen: 4.371 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 13357

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.4	26.2

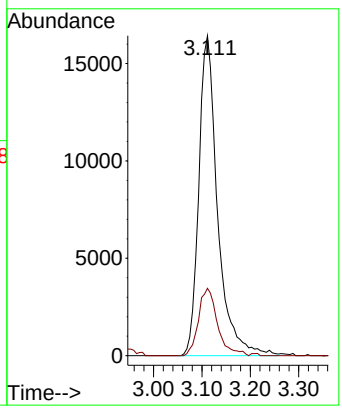




#19
Methyl tert-butyl Ether
Concen: 5.160 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 73 Resp: 4439

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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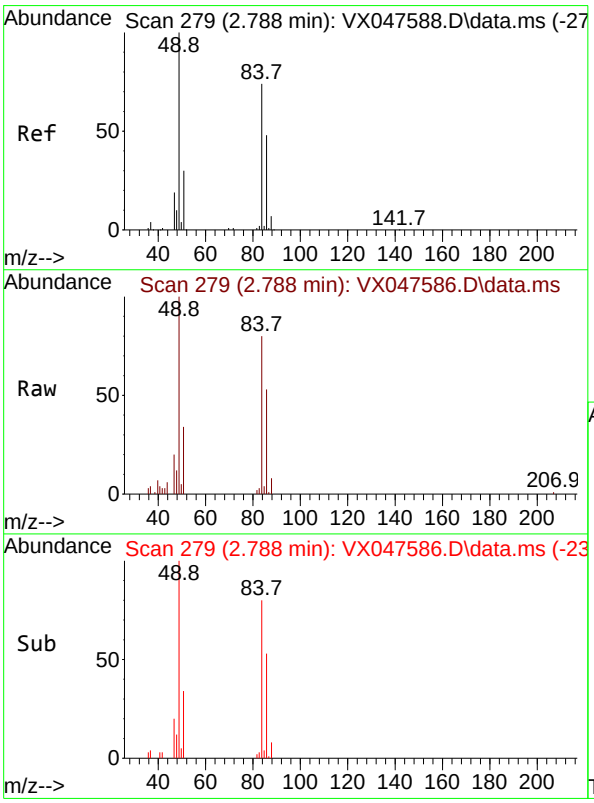
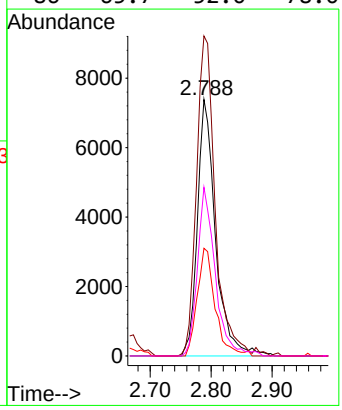
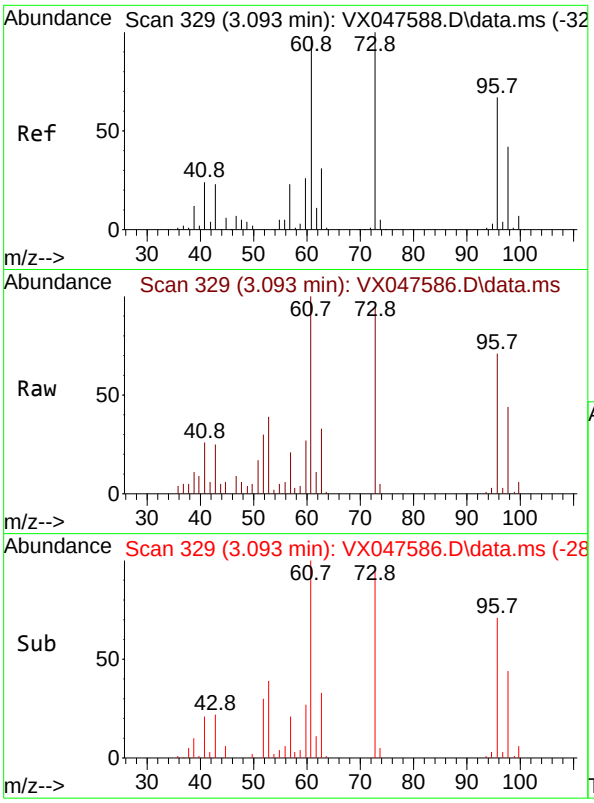


#20
Methylene Chloride
Concen: 5.267 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 84 Resp: 15307

Ion	Ratio	Lower	Upper
84	100		
49	124.7	108.6	162.8
51	42.0	32.6	48.8
86	65.7	52.0	78.0

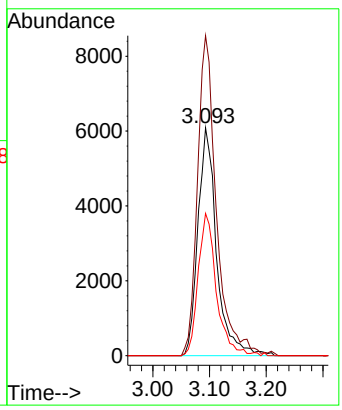




#21
trans-1,2-Dichloroethene
Concen: 5.492 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 1393

Ion	Ratio	Lower	Upper
96	100		
61	140.4	116.2	174.2
98	62.4	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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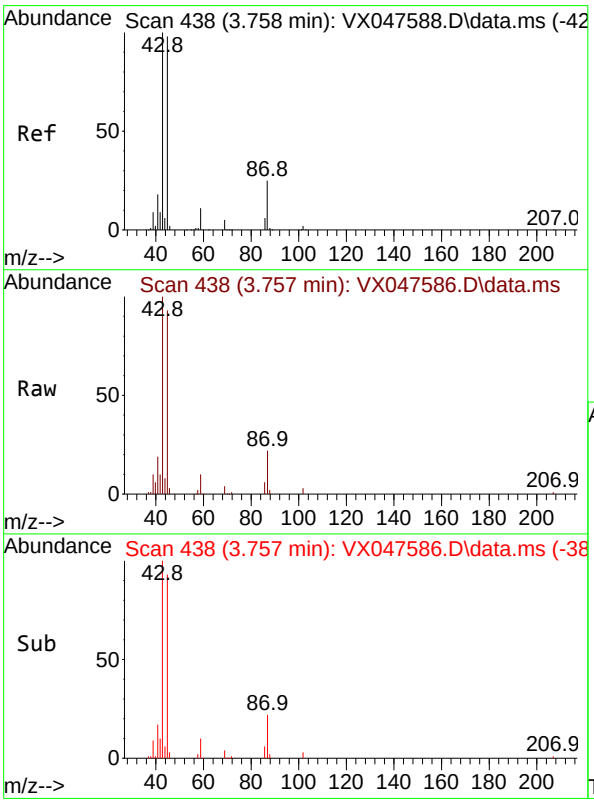
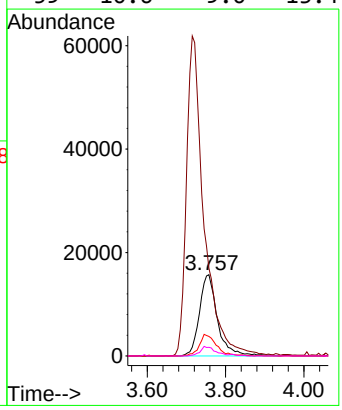
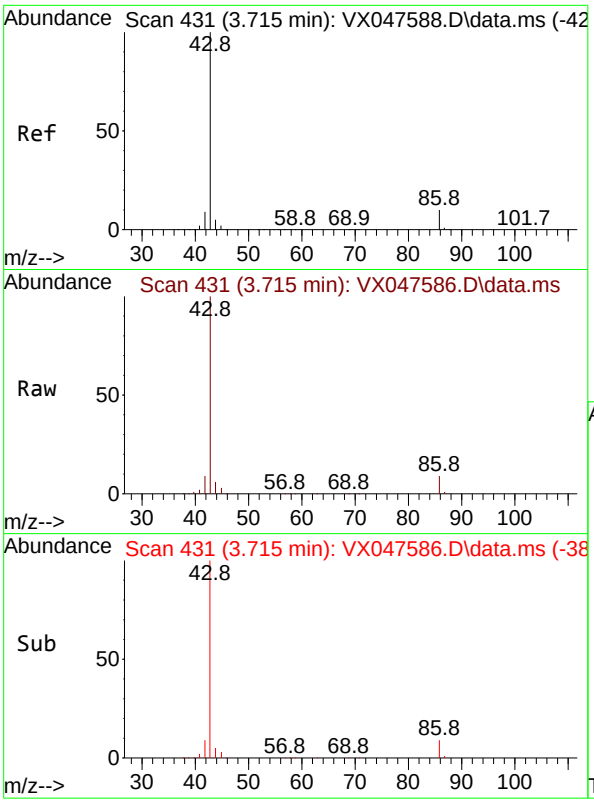


#22
Diisopropyl ether
Concen: 5.327 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 45 Resp: 50213

Ion	Ratio	Lower	Upper
45	100		
43	102.8	81.0	121.4
87	23.3	20.3	30.5
59	10.6	9.0	13.4





#23
Vinyl Acetate
Concen: 25.474 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 19217

Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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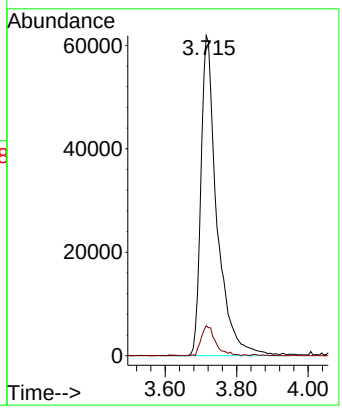
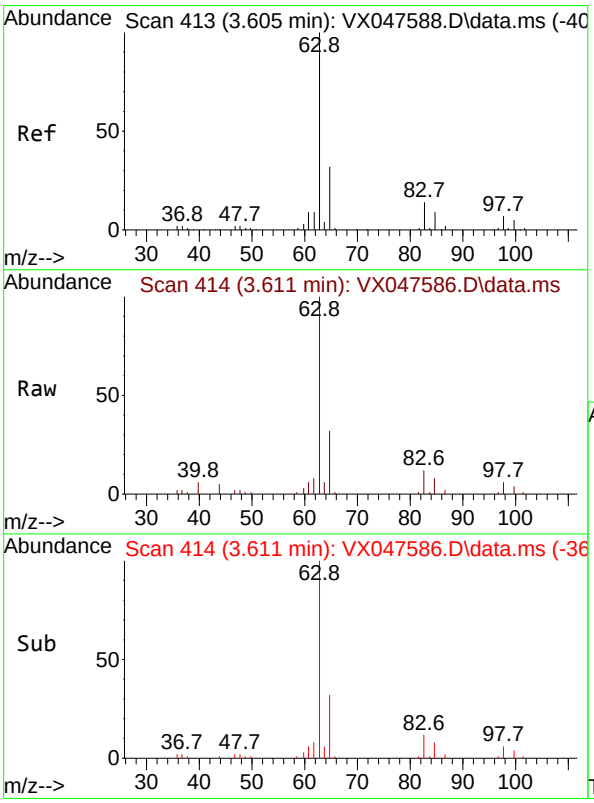
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

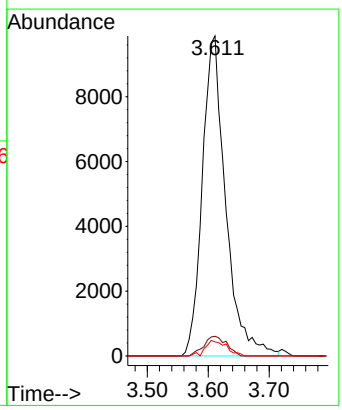


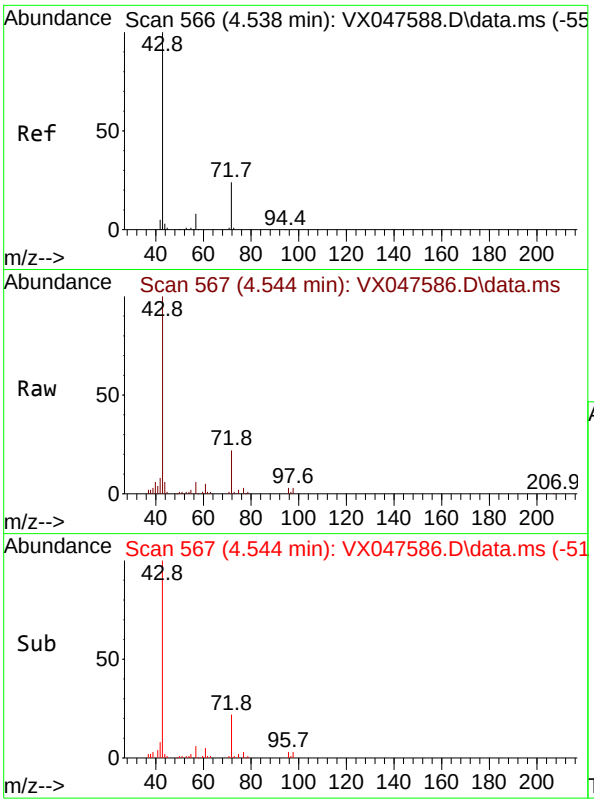


#24
1,1-Dichloroethane
Concen: 5.248 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 26292

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.4	2.3	6.9





#25
2-Butanone
Concen: 27.240 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 4665

Ion	Ratio	Lower	Upper
43	100		
72	21.3	20.1	30.1

Instrument :
MSVOA_X
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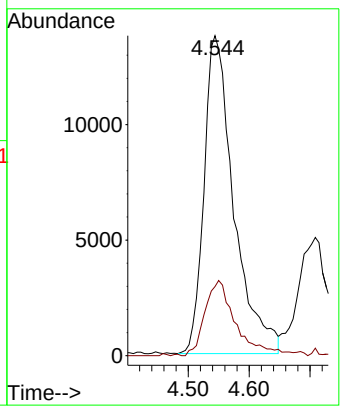
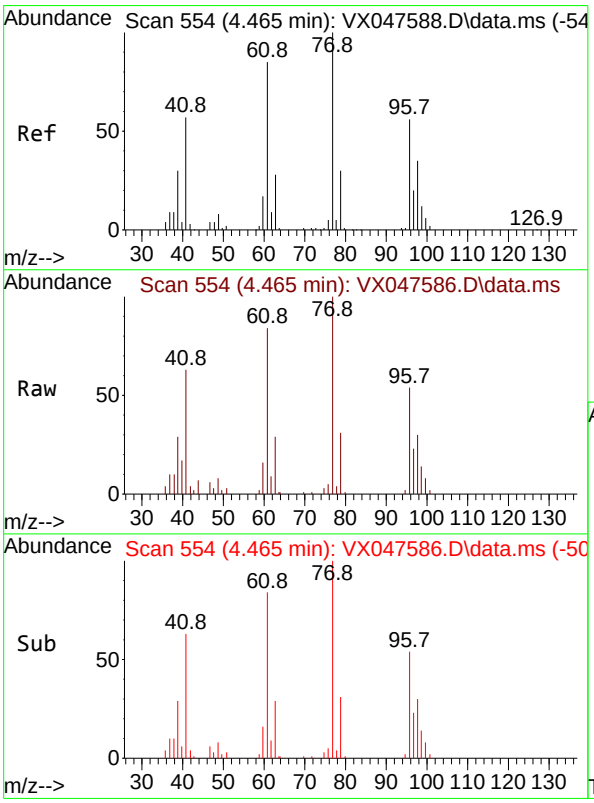
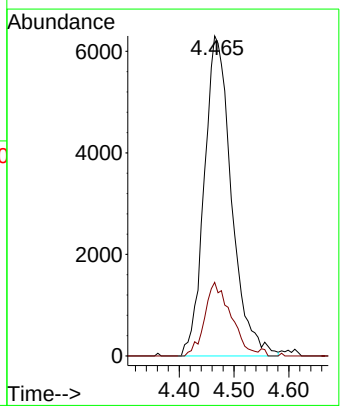


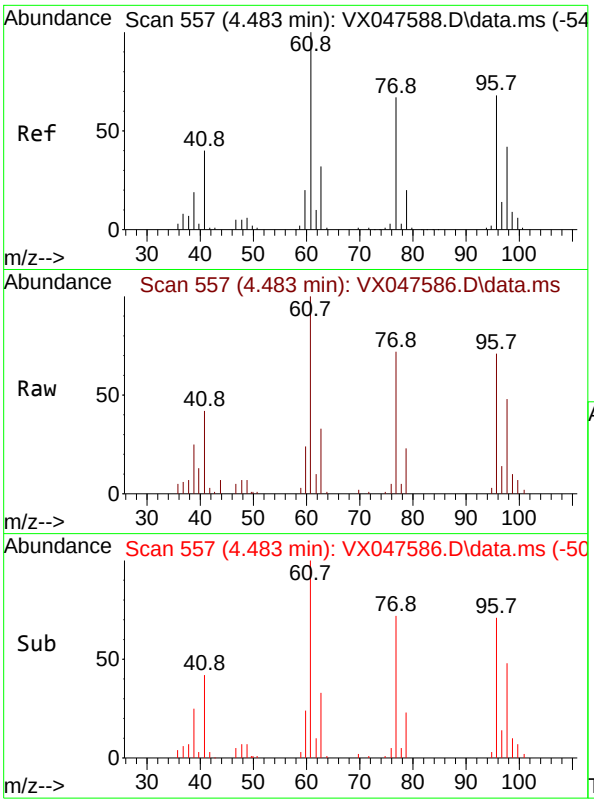


#26
2,2-Dichloropropane
Concen: 5.220 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 77 Resp: 21738

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7

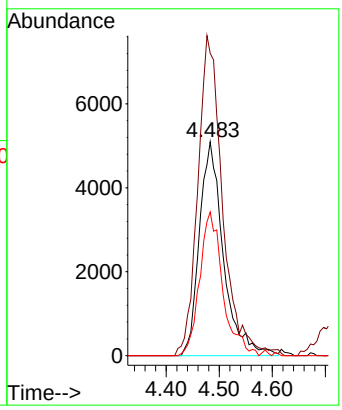




#27
cis-1,2-Dichloroethene
Concen: 5.147 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 1599

Ion	Ratio	Lower	Upper
96	100		
61	154.4	0.0	303.2
98	64.8	0.0	127.8



Instrument :
MSVOA_X
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VSTDICC005

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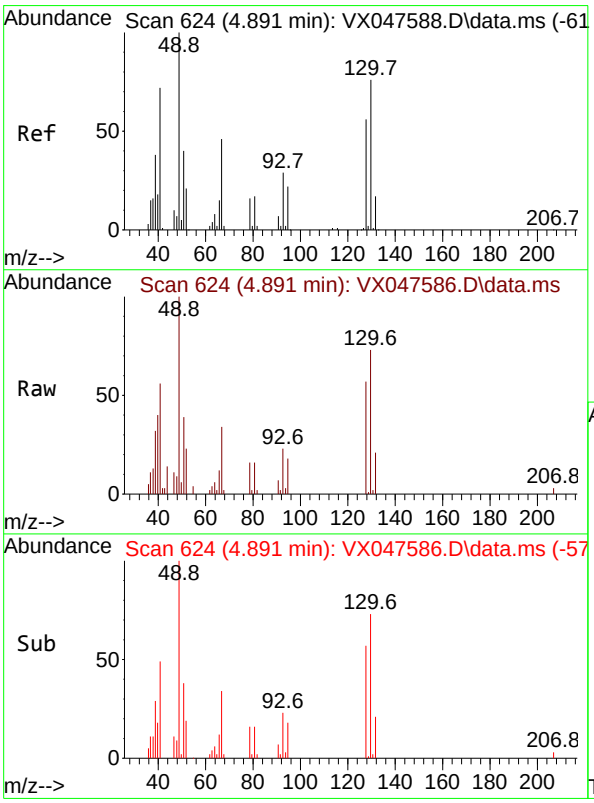
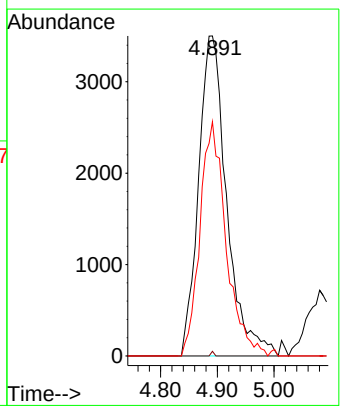
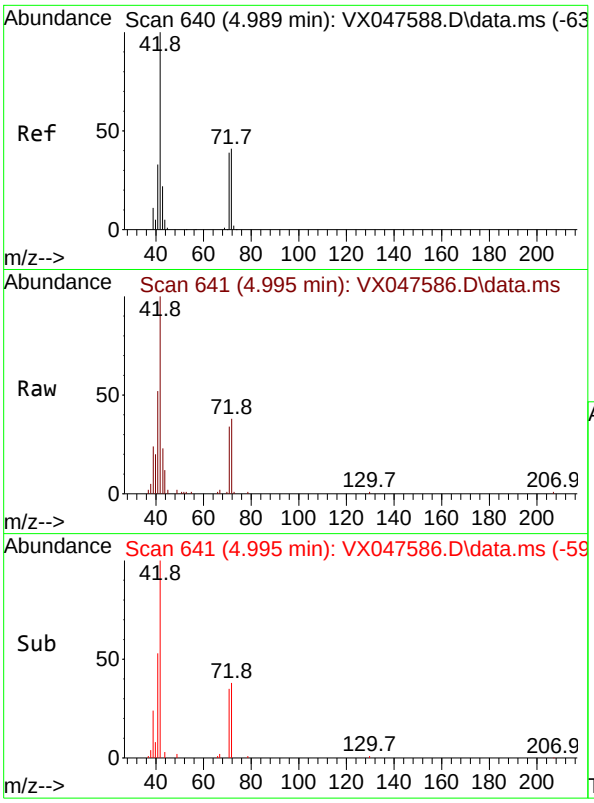


#28
Bromochloromethane
Concen: 5.508 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 49 Resp: 12047

Ion	Ratio	Lower	Upper
49	100		
129	0.2	0.0	3.2
130	68.0	57.8	86.8





#29
Tetrahydrofuran
Concen: 25.944 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 42 Resp: 2672

Ion	Ratio	Lower	Upper
42	100		
72	38.7	34.2	51.2
71	34.1	31.9	47.9

Instrument :
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VSTDICC005

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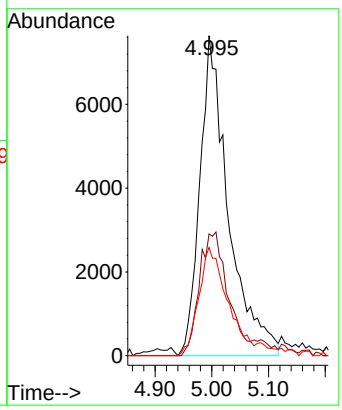
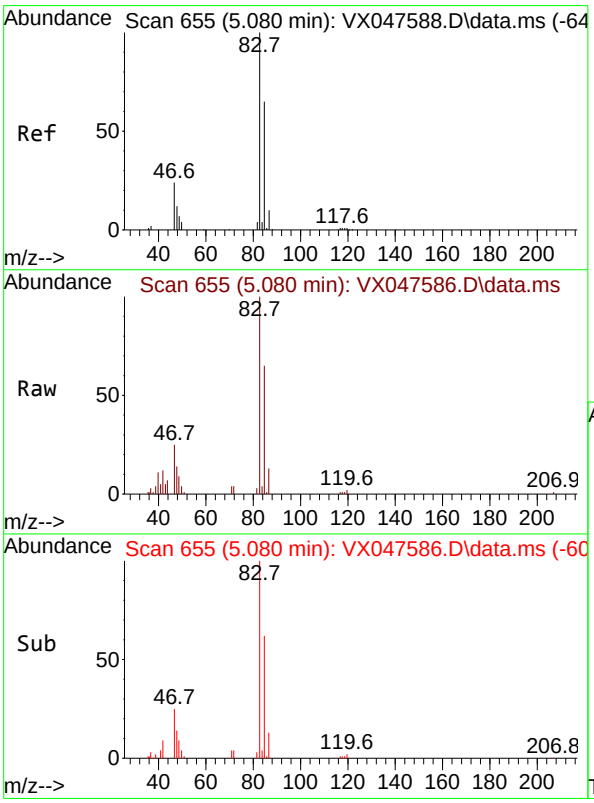
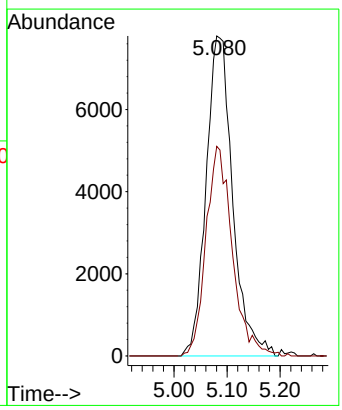


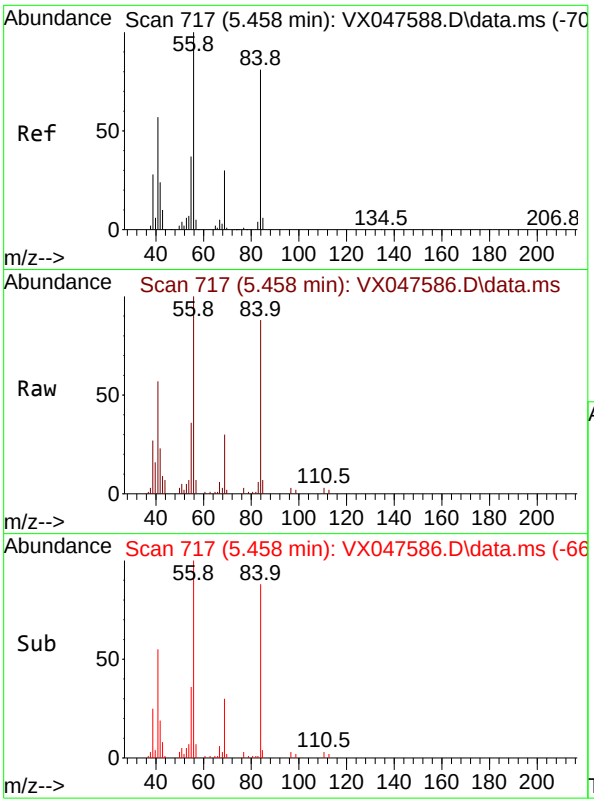


#30
Chloroform
Concen: 5.344 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 27054

Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.6





#31
Cyclohexane
Concen: 5.520 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 56 Resp: 2303

Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.8	35.8
84	87.1	64.6	97.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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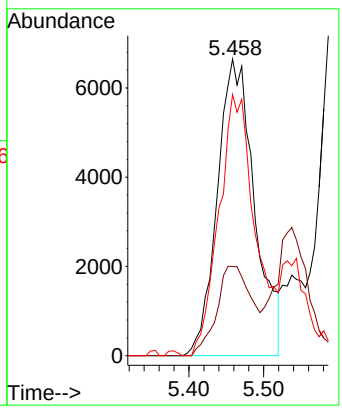
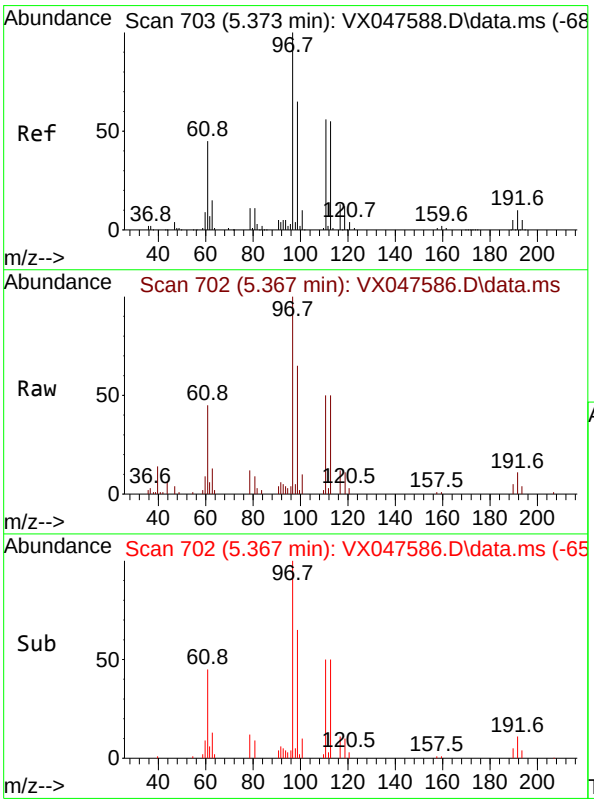
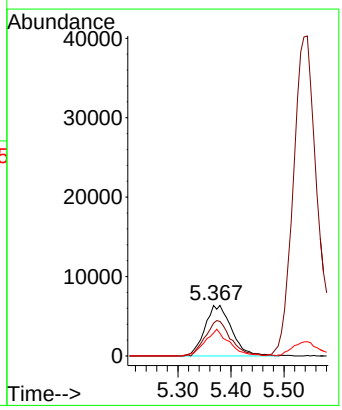


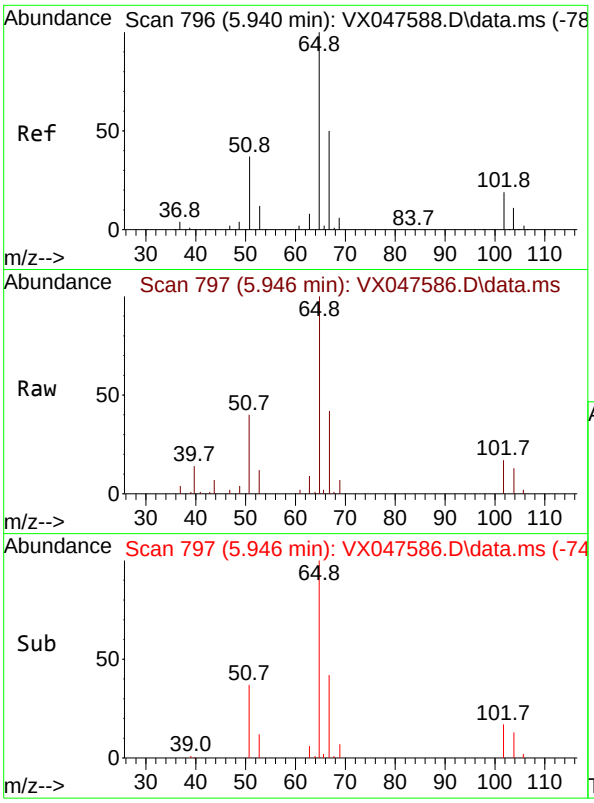


#32
1,1,1-Trichloroethane
Concen: 5.188 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 97 Resp: 22279

Ion	Ratio	Lower	Upper
97	100		
99	66.4	50.6	76.0
61	47.4	35.8	53.8

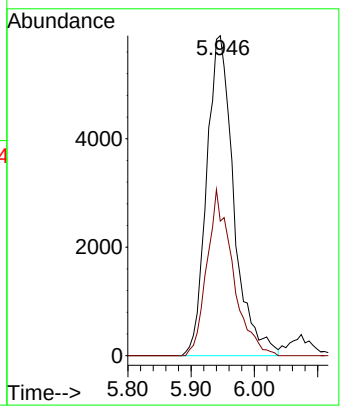




#33
1,2-Dichloroethane-d4
Concen: 5.554 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 65 Resp: 1753

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
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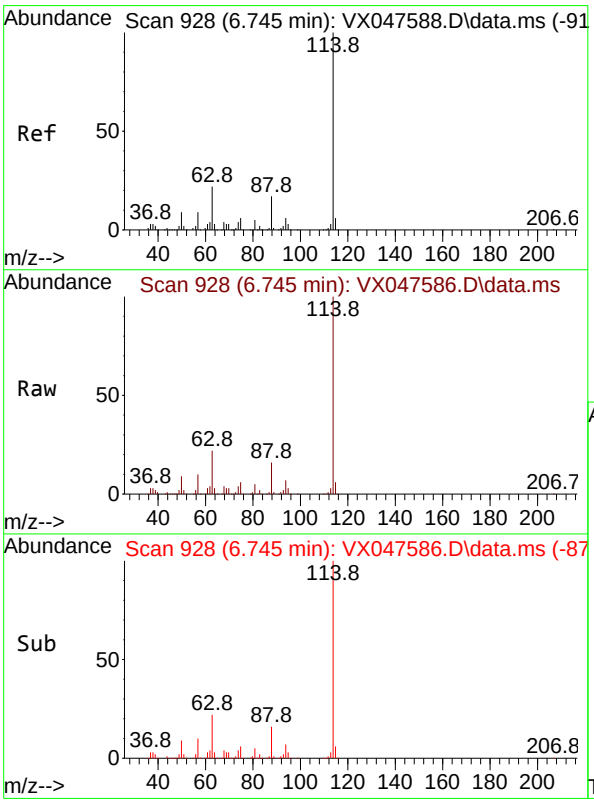
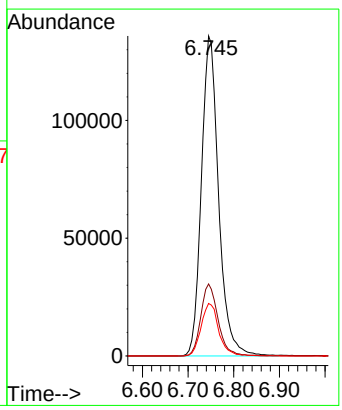
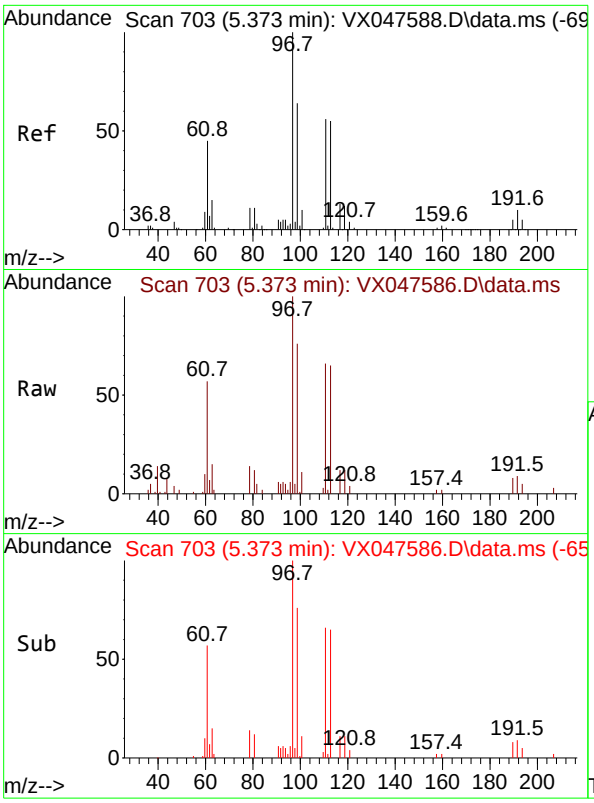


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:114 Resp: 355026

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.4	0.0	34.2

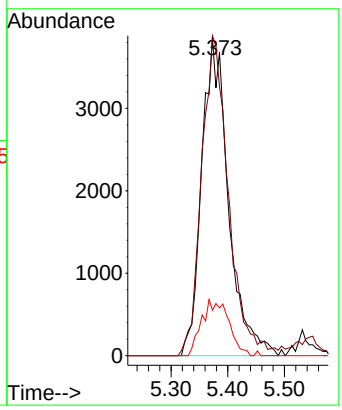




#35
Dibromofluoromethane
Concen: 5.312 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:113 Resp: 1264

Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.9	121.3
192	17.8	14.2	21.4



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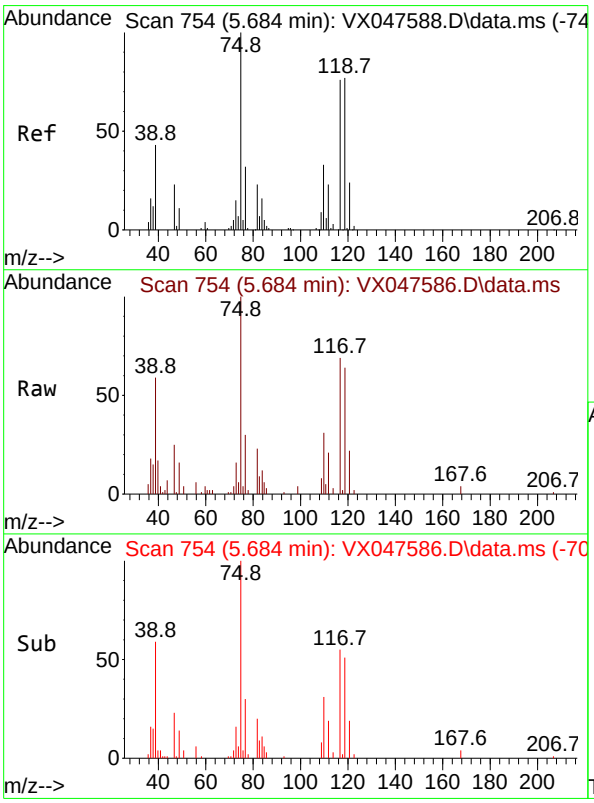
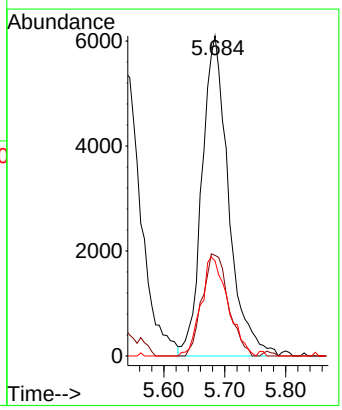
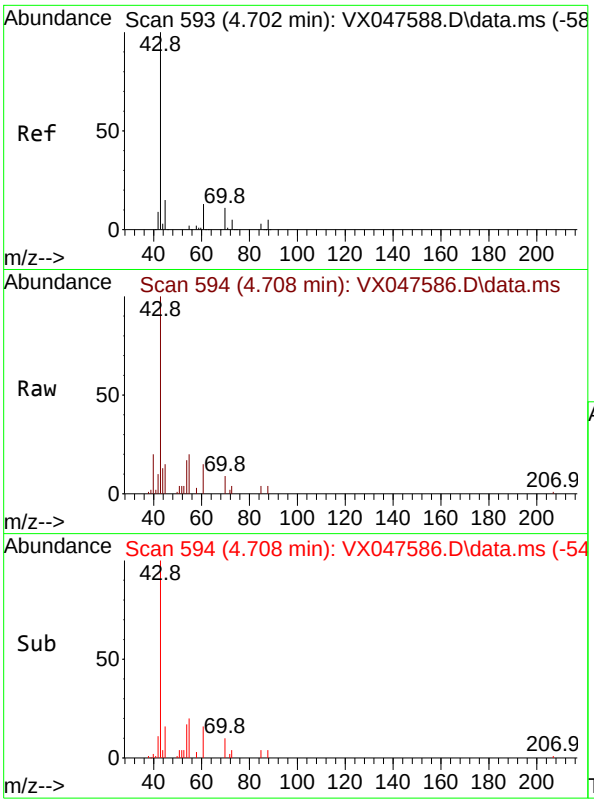


#36
1,1-Dichloropropene
Concen: 5.304 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 18455

Ion	Ratio	Lower	Upper
75	100		
110	31.4	16.7	50.1
77	31.0	24.3	36.5





#37
Ethyl Acetate
Concen: 5.345 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 1991

Ion	Ratio	Lower	Upper
43	100		
61	11.9	9.8	14.8
70	7.6	7.9	11.9#

Instrument :
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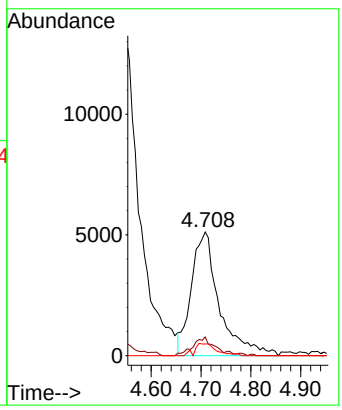
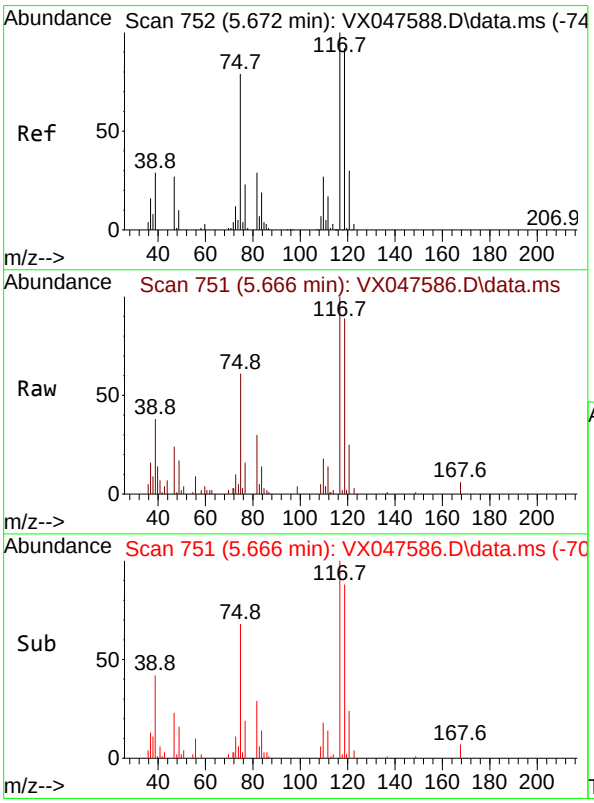
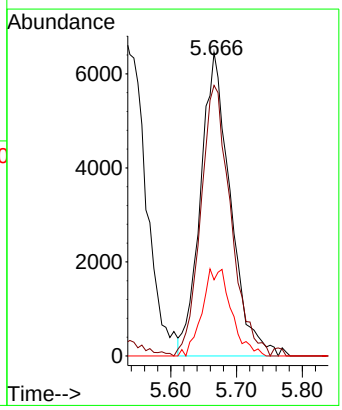


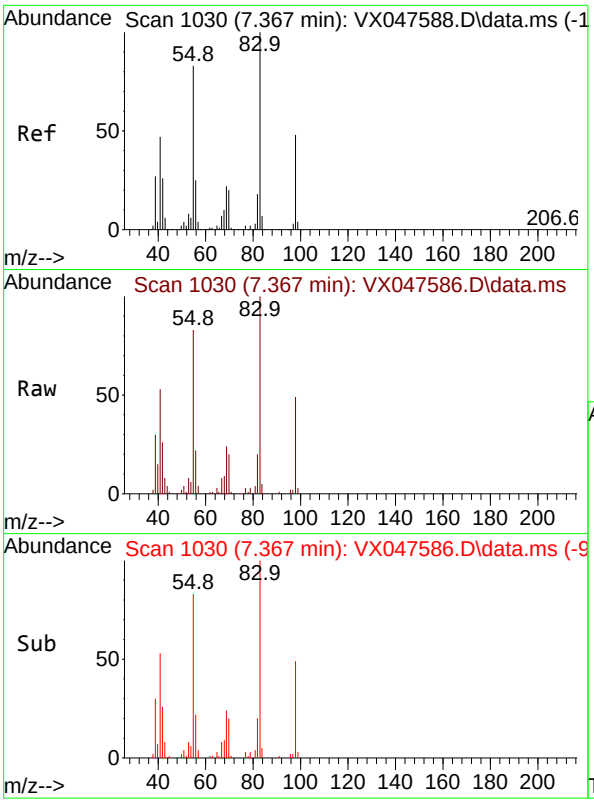


#38
Carbon Tetrachloride
Concen: 5.390 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 20376

Ion	Ratio	Lower	Upper
117	100		
119	88.9	73.4	110.2
121	25.1	23.8	35.6

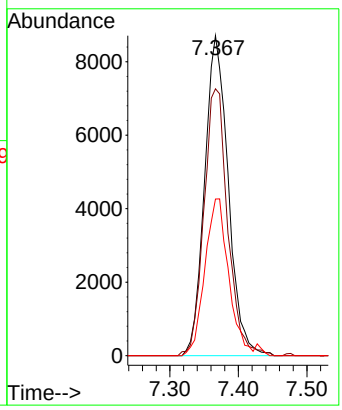




#39
Methylcyclohexane
Concen: 5.292 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 2090

Ion	Ratio	Lower	Upper
83	100		
55	79.1	66.4	99.6
98	46.4	38.1	57.1



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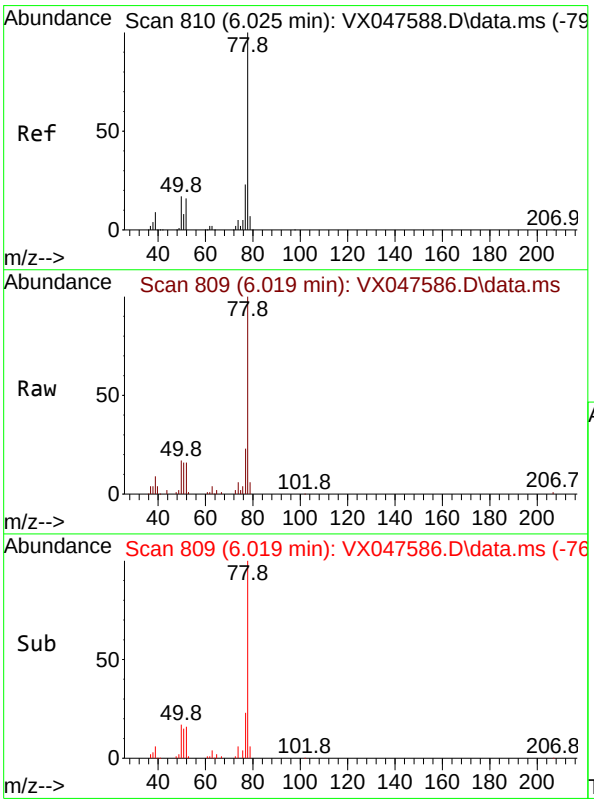
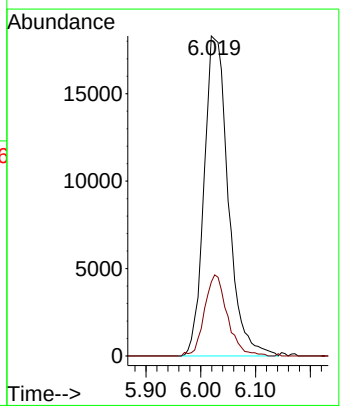
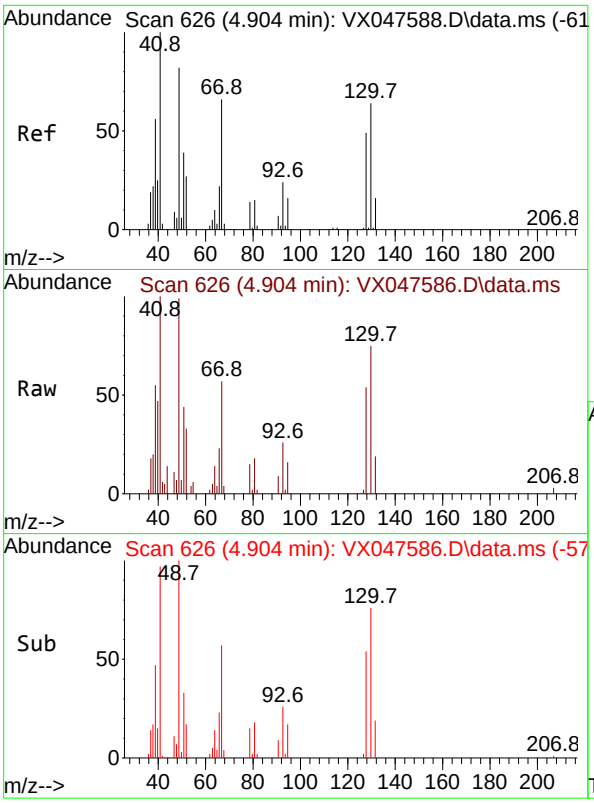


#40
Benzene
Concen: 5.299 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 78 Resp: 55996

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2

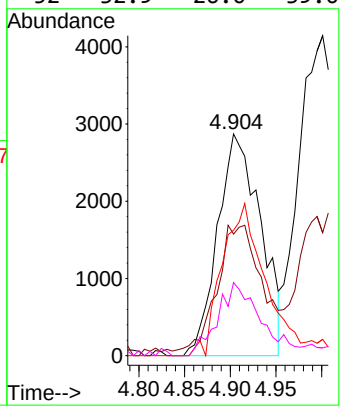




#41
Methacrylonitrile
Concen: 4.883 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 939

Ion	Ratio	Lower	Upper
41	100		
39	58.3	43.3	64.9
67	68.7	58.6	87.8
52	32.9	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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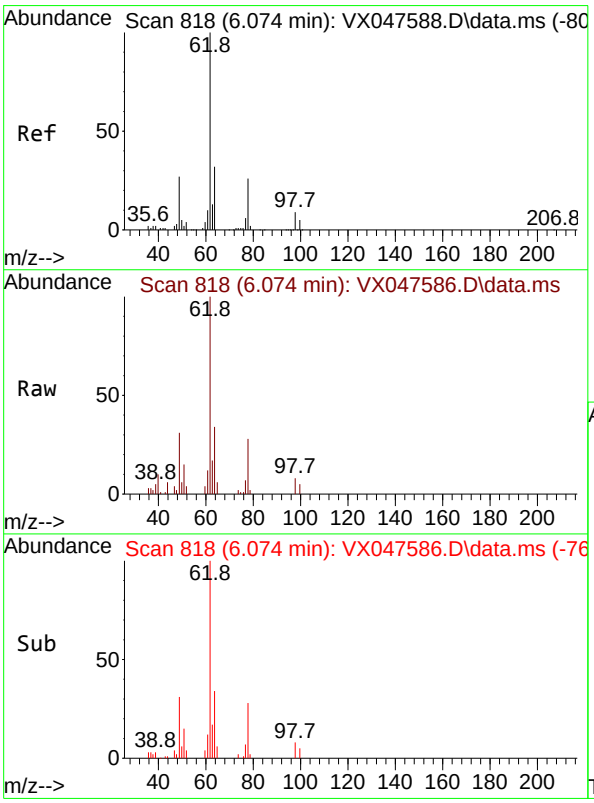
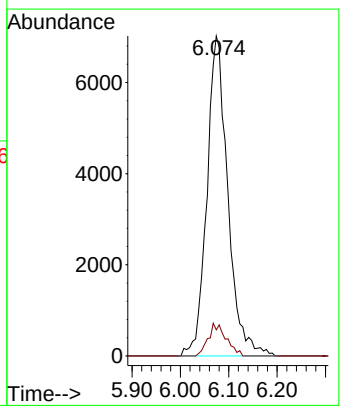
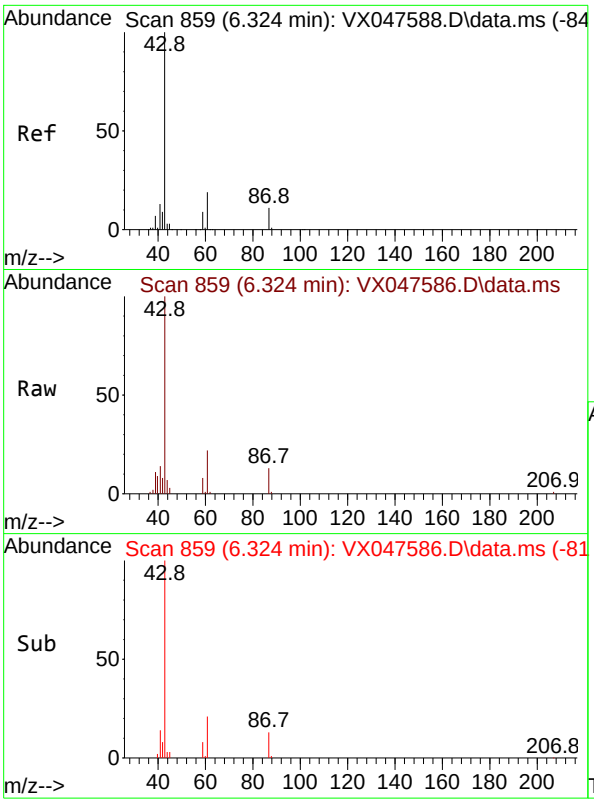


#42
1,2-Dichloroethane
Concen: 5.252 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 21117

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

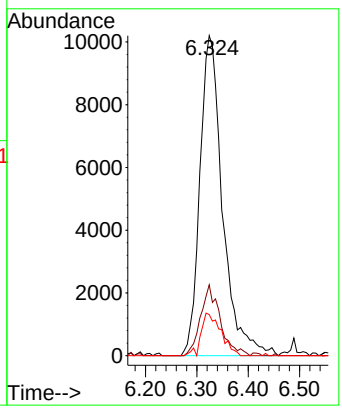




#43
Isopropyl Acetate
Concen: 5.124 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 3130

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	11.6	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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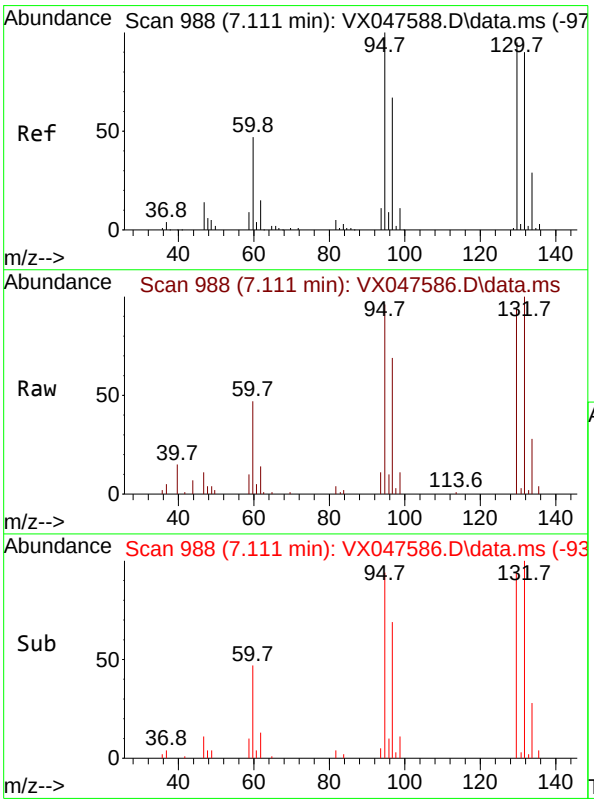
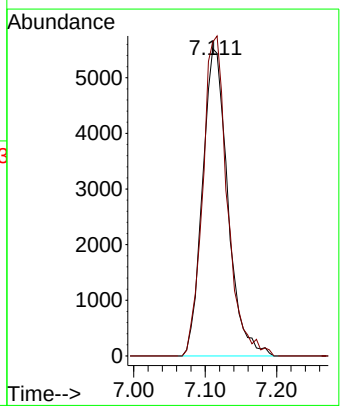
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

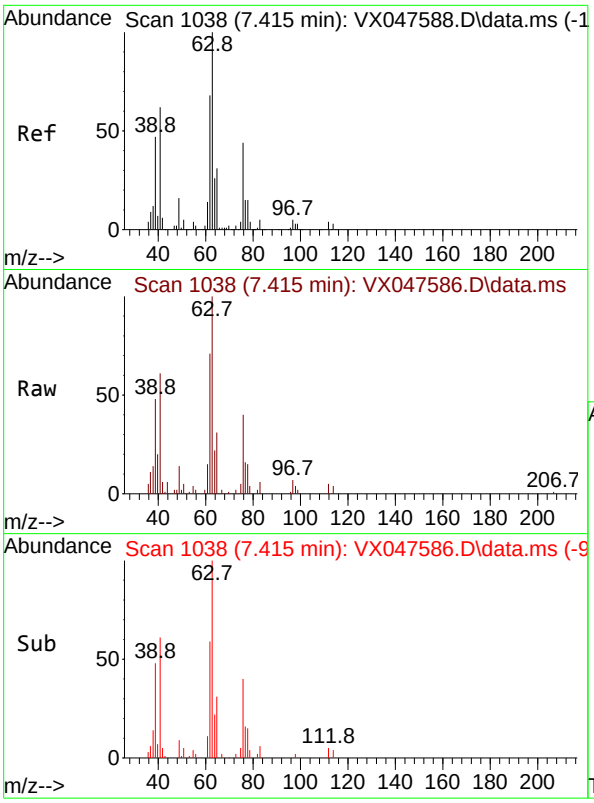


#44
Trichloroethene
Concen: 5.314 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:130 Resp: 13576

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	210.8

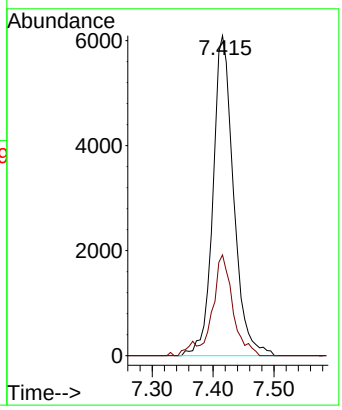




#45
1,2-Dichloropropane
Concen: 5.287 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 1430

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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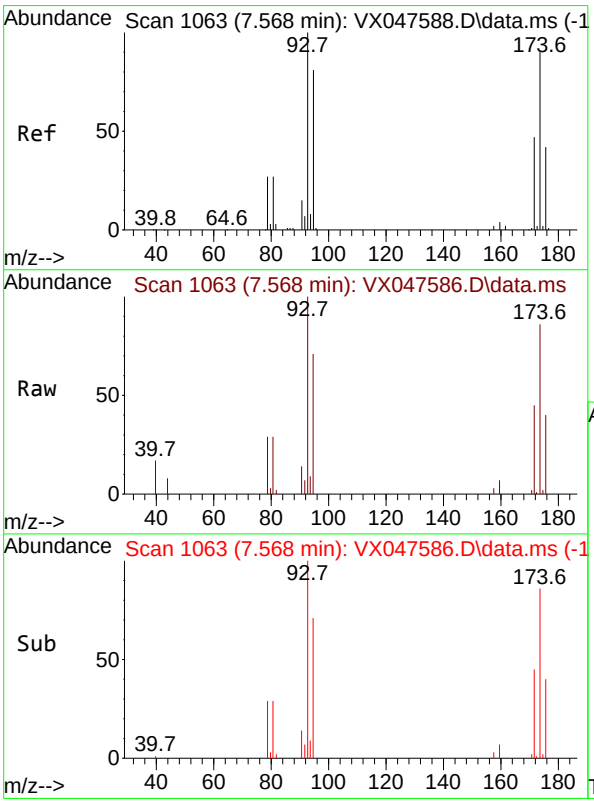
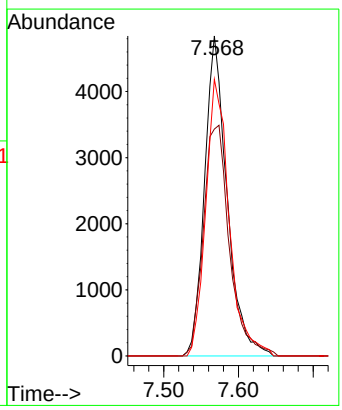
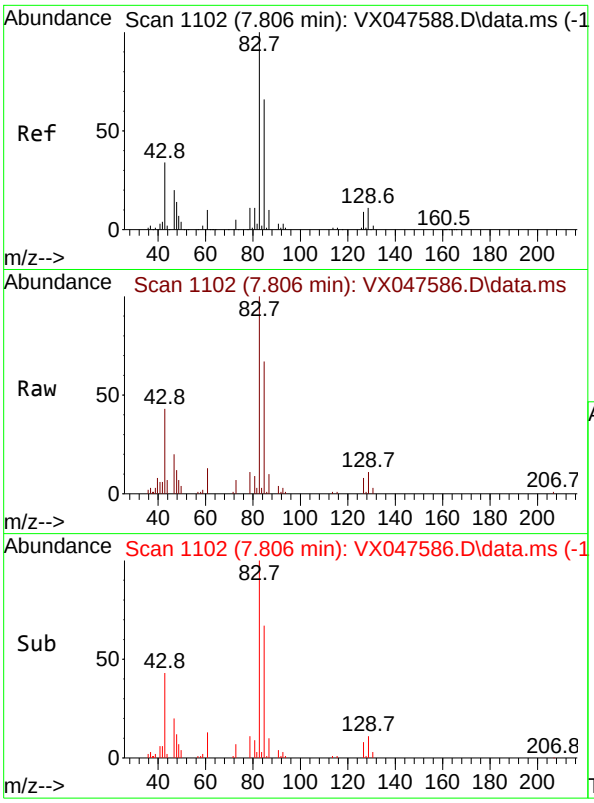


#46
Dibromomethane
Concen: 5.146 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 93 Resp: 10133

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.0	97.6
174	90.0	71.6	107.4

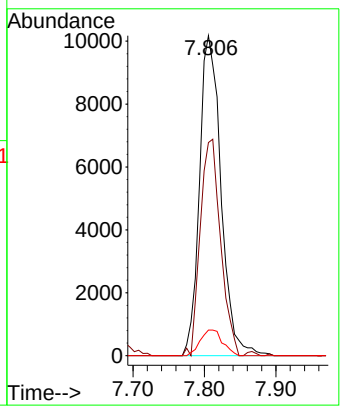




#47
Bromodichloromethane
Concen: 5.235 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 2127

Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.5	78.7
127	7.8	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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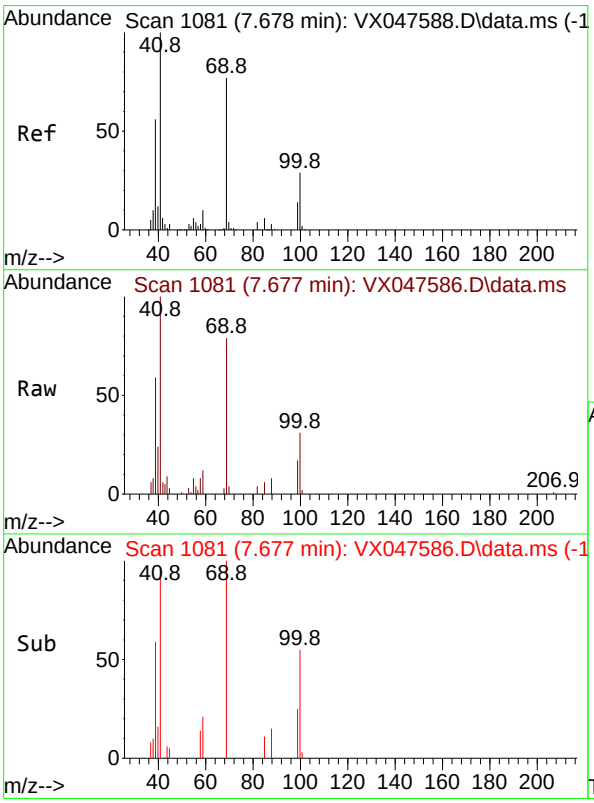
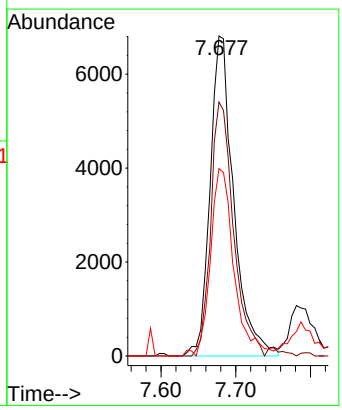
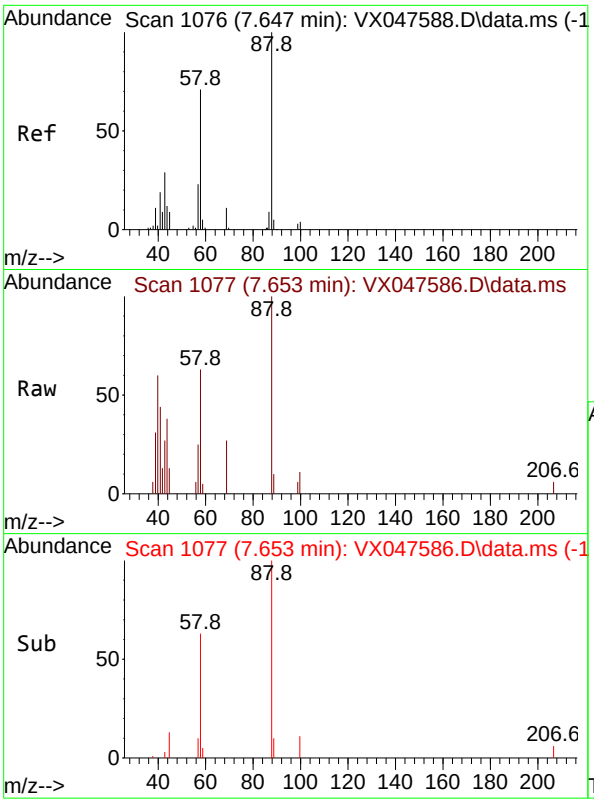


#48
Methyl methacrylate
Concen: 4.915 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 14959

Ion	Ratio	Lower	Upper
41	100		
69	76.4	61.4	92.2
39	58.2	45.8	68.6

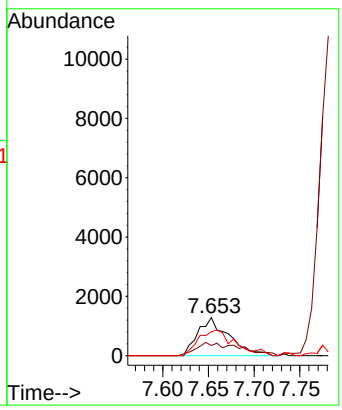




#49
1,4-Dioxane
Concen: 98.096 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 88 Resp: 301

Ion	Ratio	Lower	Upper
88	100		
43	48.3	30.2	45.2
58	79.1	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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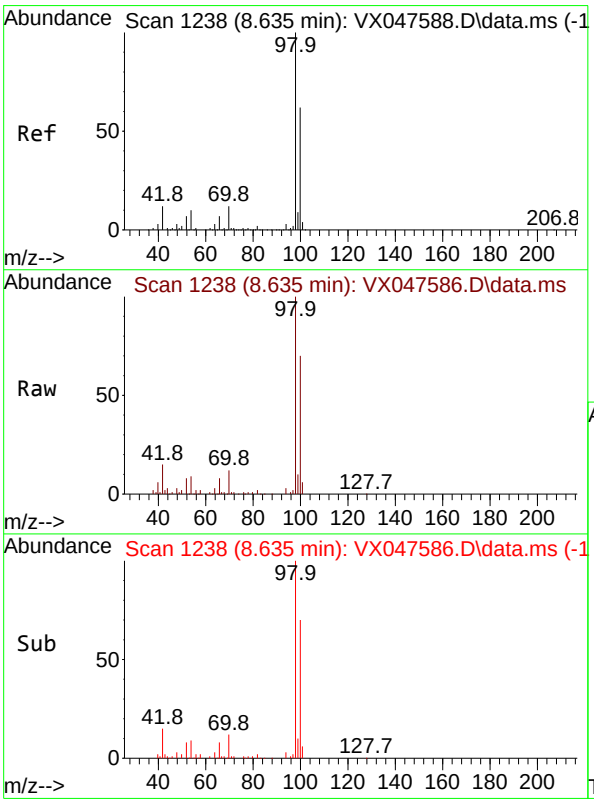
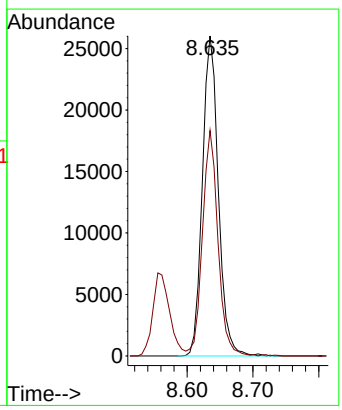
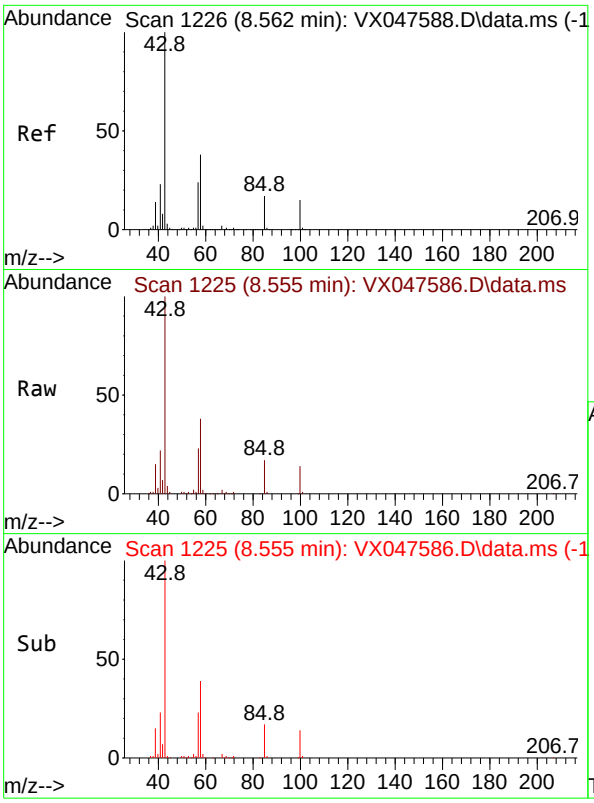


#50
Toluene-d8
Concen: 5.332 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 98 Resp: 43926

Ion	Ratio	Lower	Upper
98	100		
100	68.4	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 25.828 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 8749

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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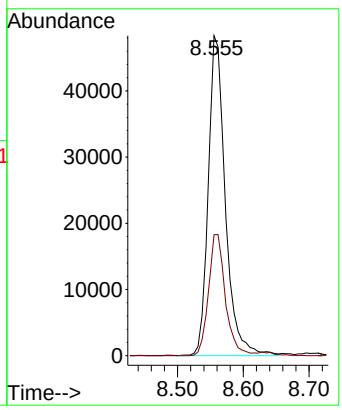
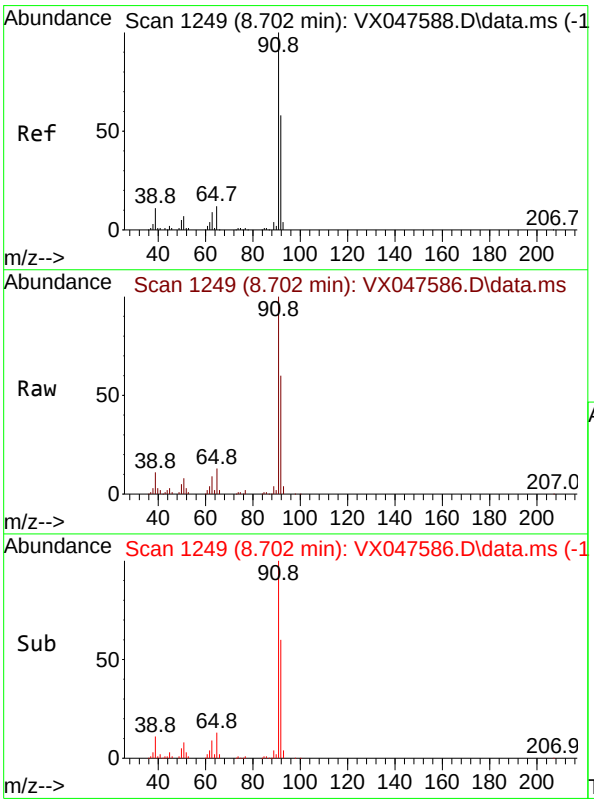
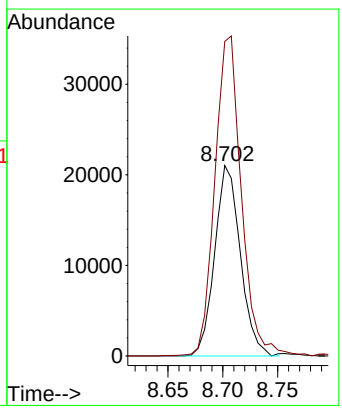


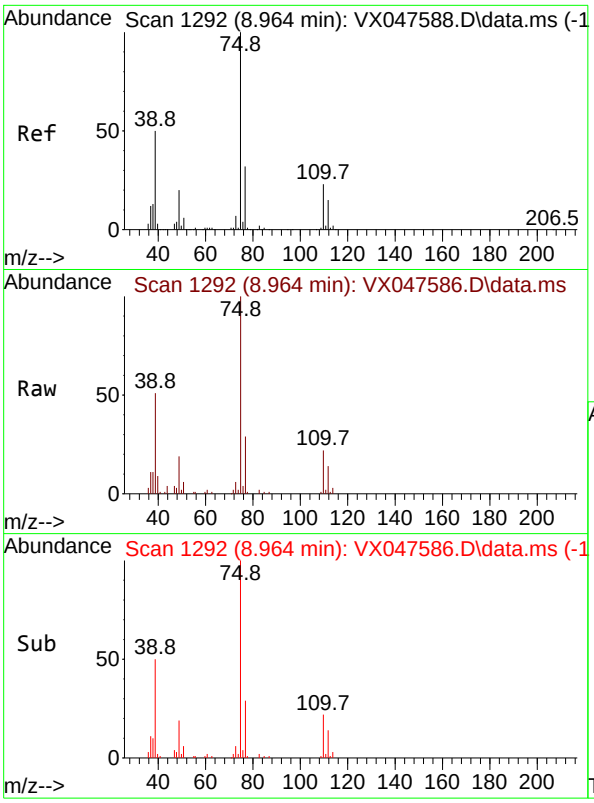


#52
Toluene
Concen: 5.271 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 92 Resp: 34314

Ion	Ratio	Lower	Upper
92	100		
91	173.8	137.1	205.7

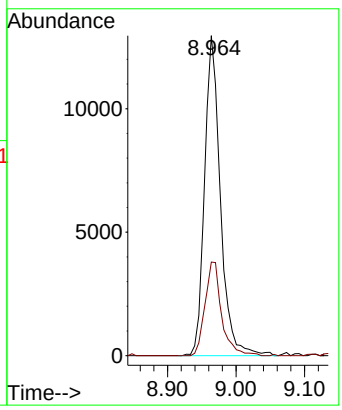




#53
t-1,3-Dichloropropene
Concen: 5.034 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 2086

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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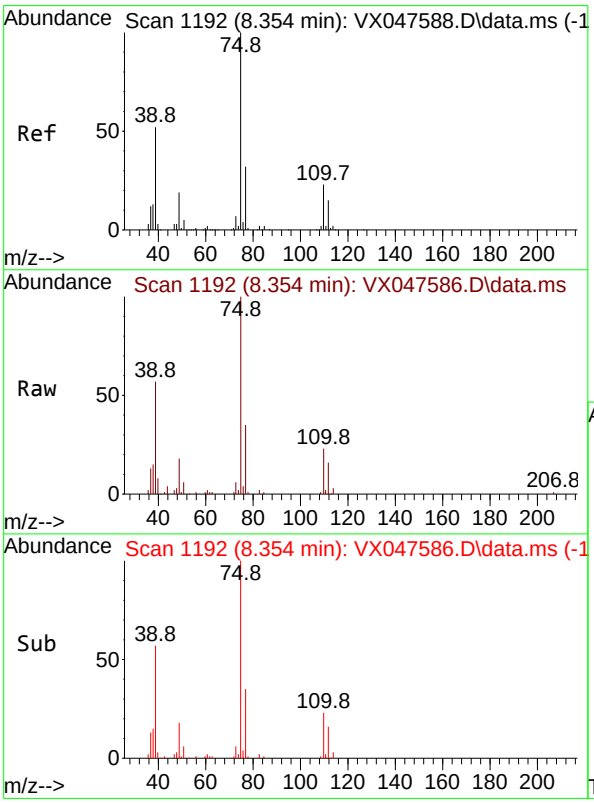
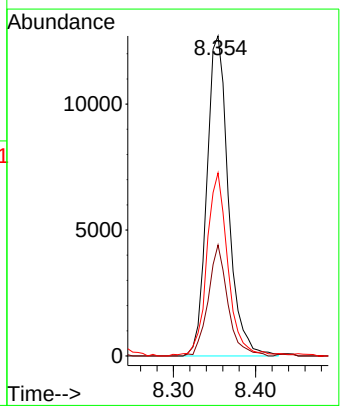
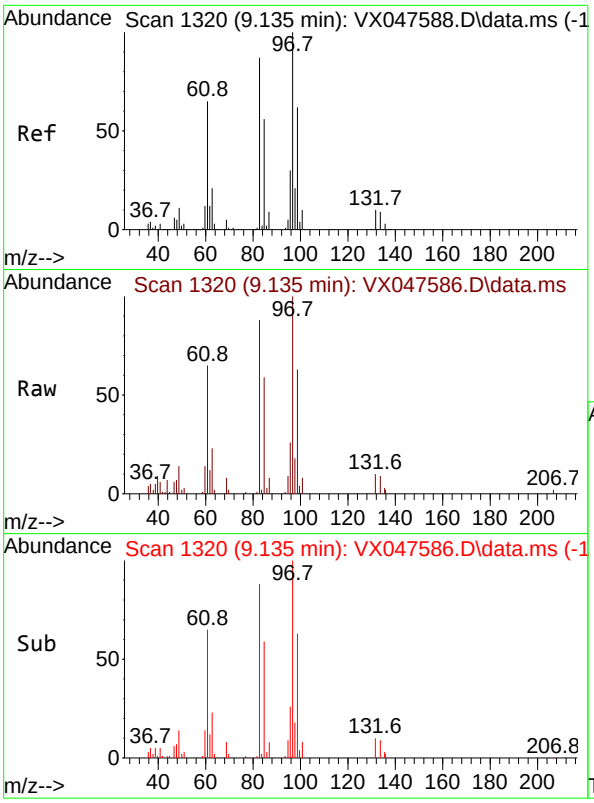


#54
cis-1,3-Dichloropropene
Concen: 5.227 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 23157

Ion	Ratio	Lower	Upper
75	100		
77	34.7	25.8	38.6
39	51.7	41.4	62.2

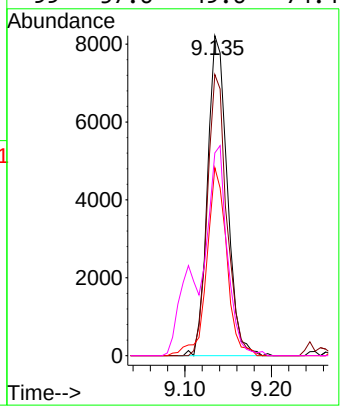




#55
1,1,2-Trichloroethane
Concen: 5.166 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 97 Resp: 1296

Ion	Ratio	Lower	Upper
97	100		
83	76.7	69.6	104.4
85	49.9	45.0	67.6
99	57.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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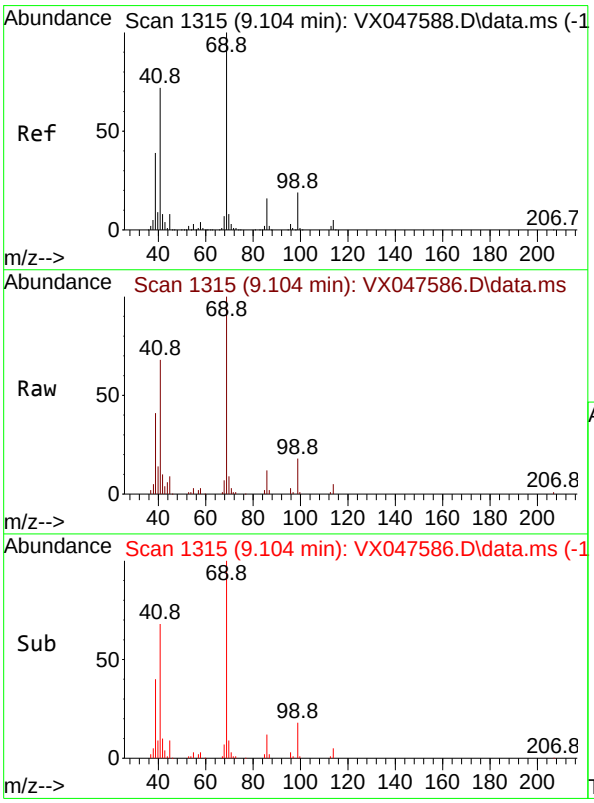
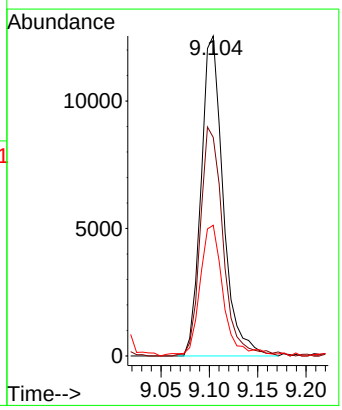
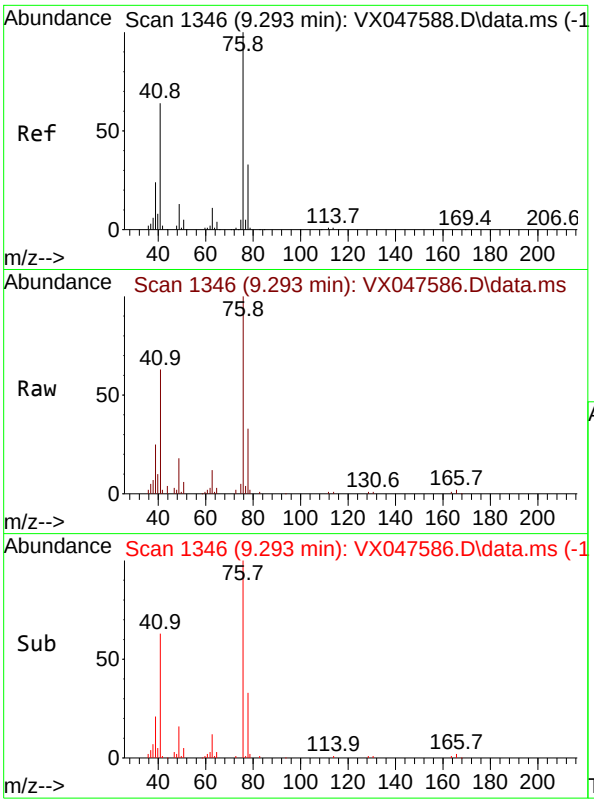


#56
Ethyl methacrylate
Concen: 5.068 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 69 Resp: 19980

Ion	Ratio	Lower	Upper
69	100		
41	73.9	58.6	87.8
39	43.7	31.5	47.3

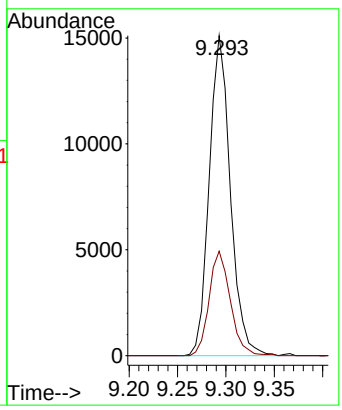




#57
1,3-Dichloropropane
Concen: 5.331 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 76 Resp: 2298

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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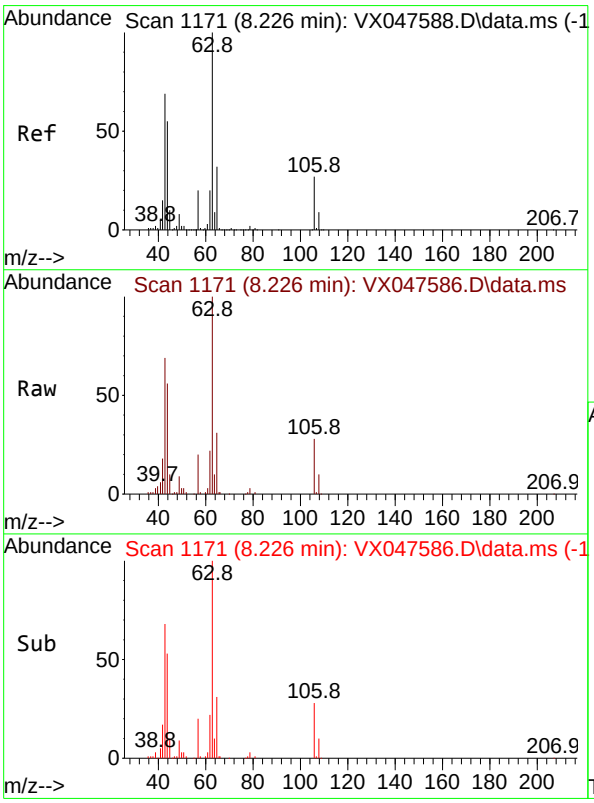
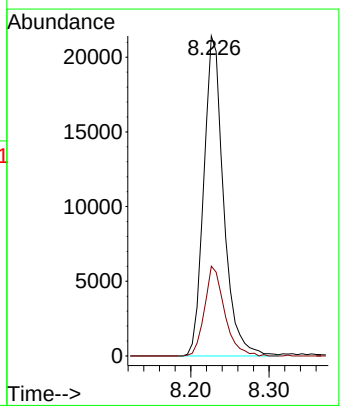
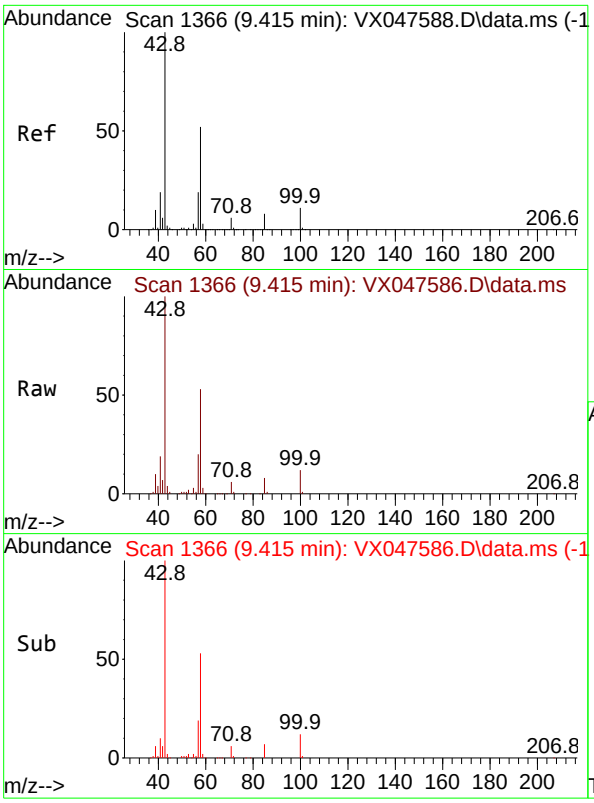


#58
2-Chloroethyl Vinyl ether
Concen: 27.899 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 37585

Ion	Ratio	Lower	Upper
63	100		
106	28.3	21.9	32.9

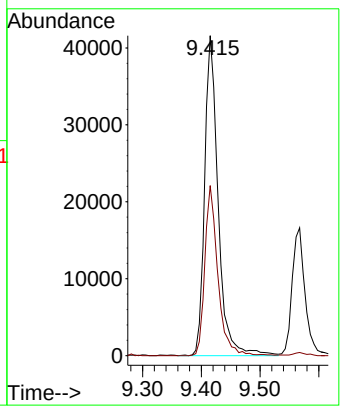




#59
2-Hexanone
Concen: 27.275 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 6635

Ion	Ratio	Lower	Upper
43	100		
58	51.1	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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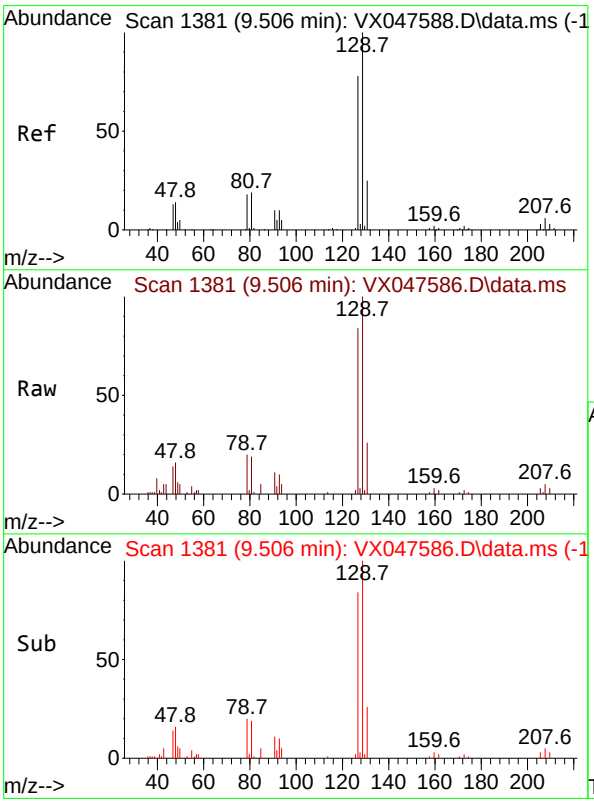
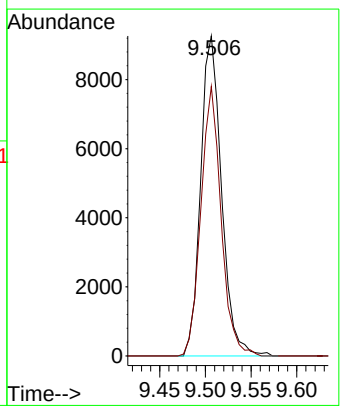
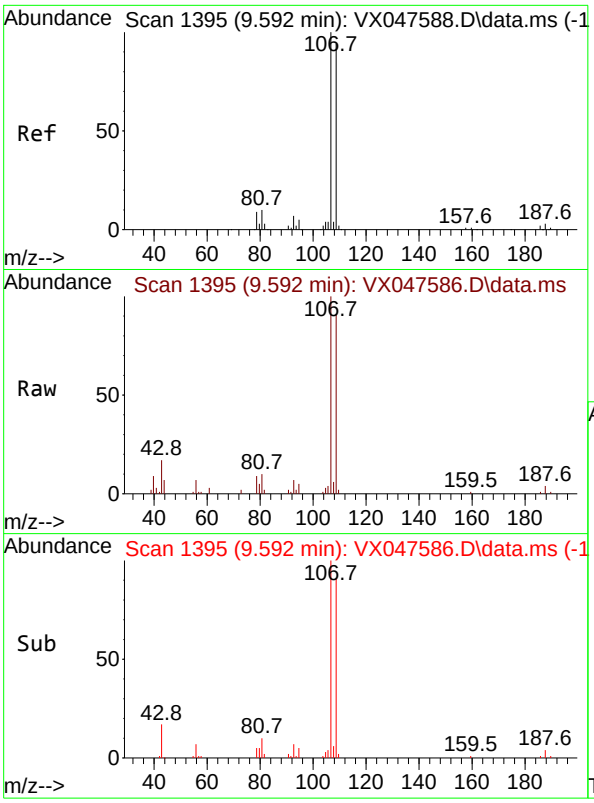


#60
Dibromochloromethane
Concen: 5.084 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:129 Resp: 14705

Ion	Ratio	Lower	Upper
129	100		
127	81.4	38.4	115.2

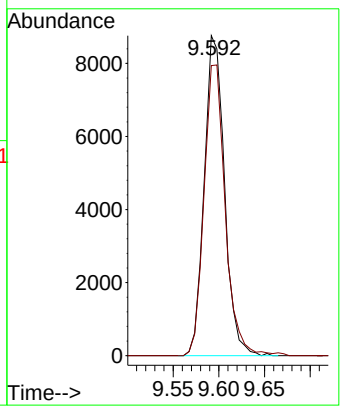




#61
1,2-Dibromoethane
Concen: 5.264 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:107 Resp: 1346

Ion	Ratio	Lower	Upper
107	100		
109	95.6	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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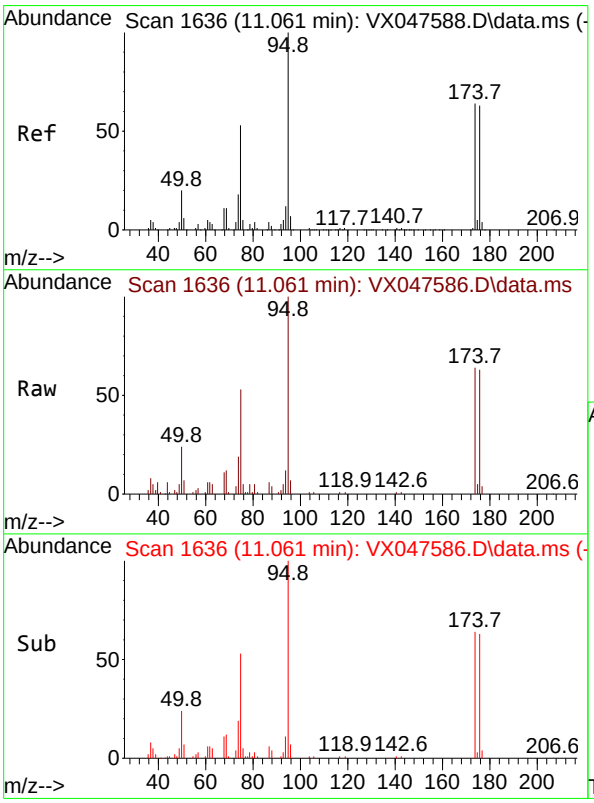
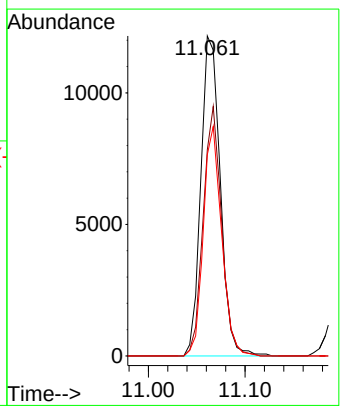
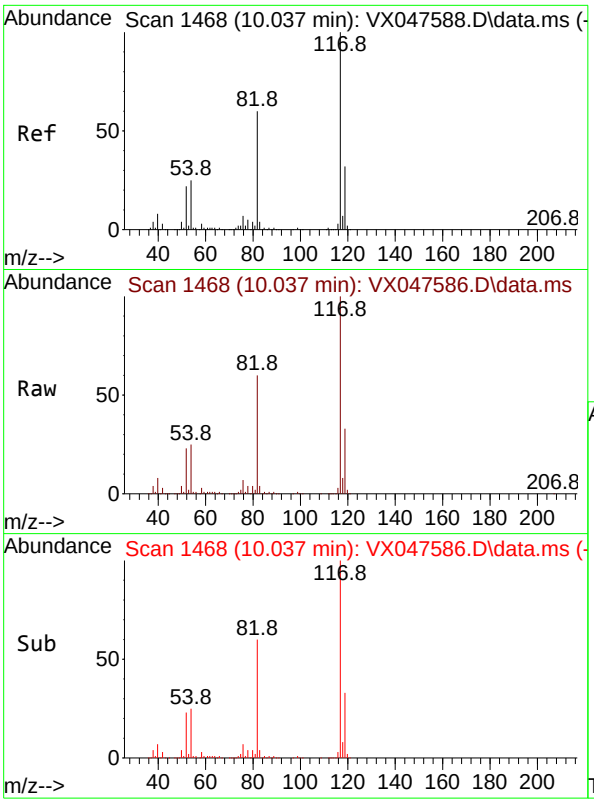


#62
4-Bromofluorobenzene
Concen: 5.429 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 95 Resp: 16974

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	141.6
176	67.9	0.0	138.4

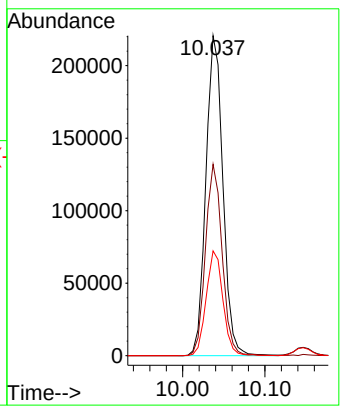




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 31728

Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.8	71.6
119	32.8	25.2	37.8



Instrument :
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ClientSampleId :
VSTDICC005

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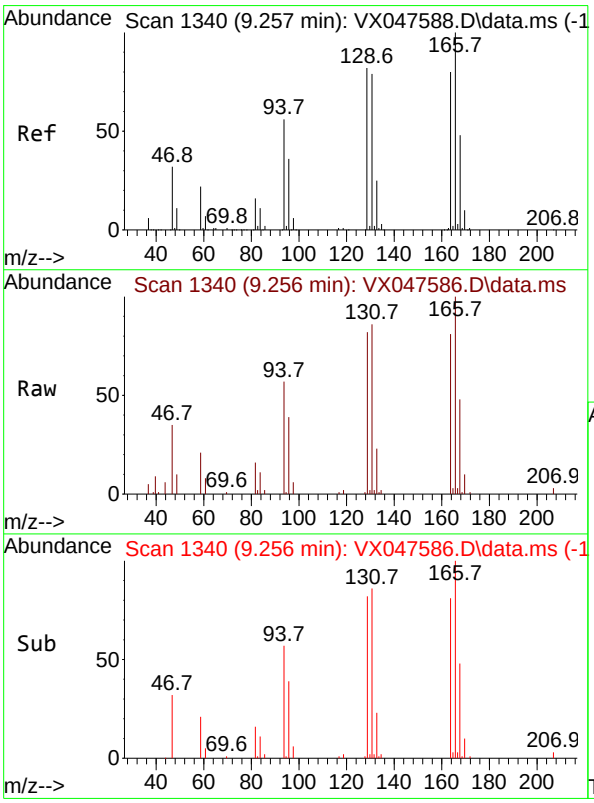
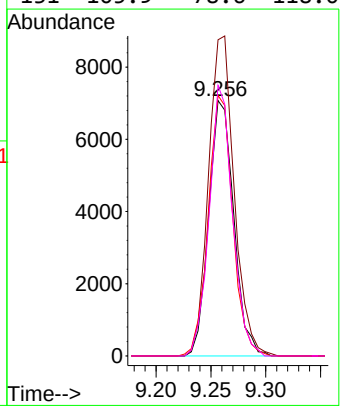
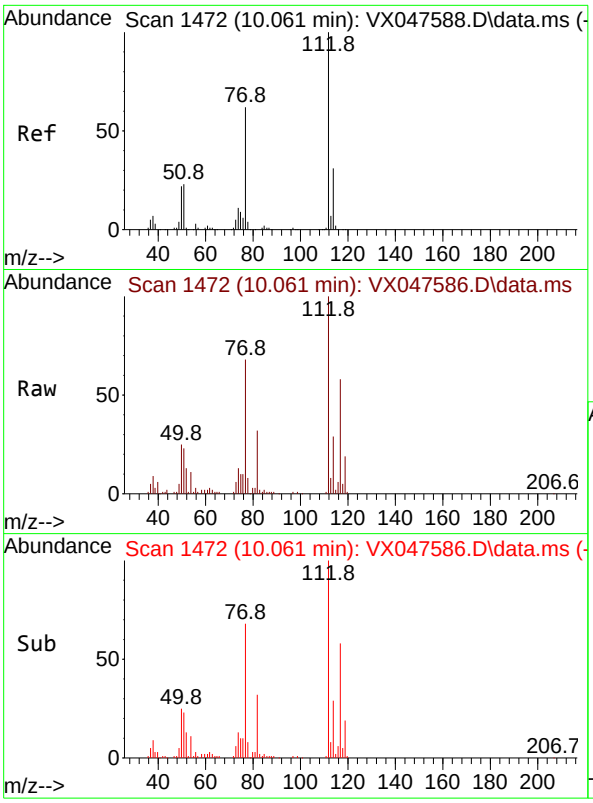


#64
Tetrachloroethene
Concen: 5.428 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:164 Resp: 11228

Ion	Ratio	Lower	Upper
164	100		
166	123.8	100.2	150.2
129	102.0	81.8	122.6
131	105.9	78.6	118.0

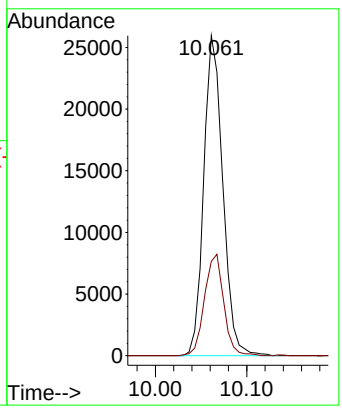




#65
Chlorobenzene
Concen: 5.203 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:112 Resp: 3750

Ion	Ratio	Lower	Upper
112	100		
114	29.2	25.1	37.7



Instrument :
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ClientSampleId :
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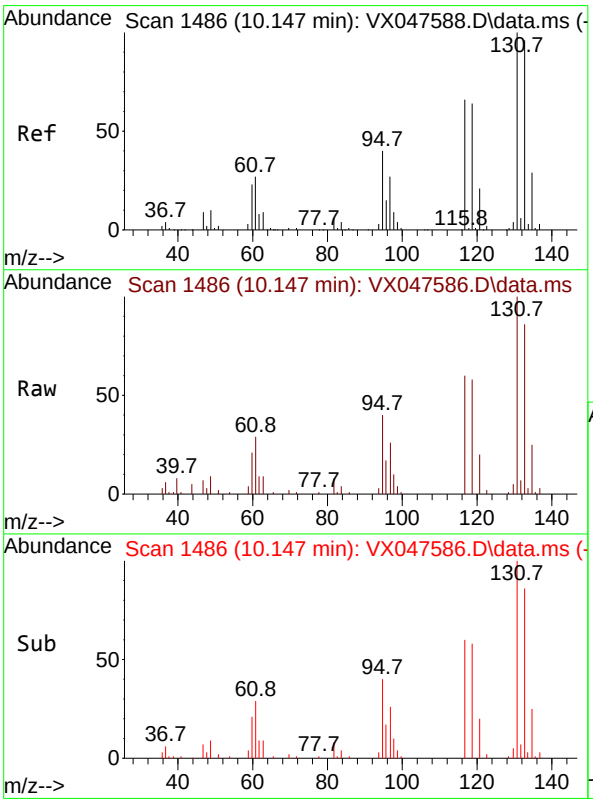
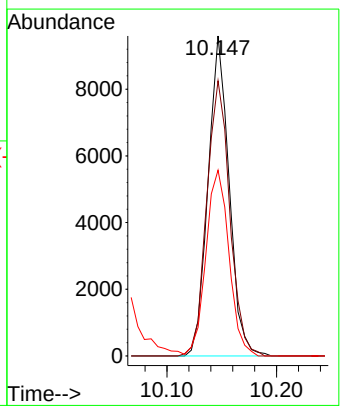
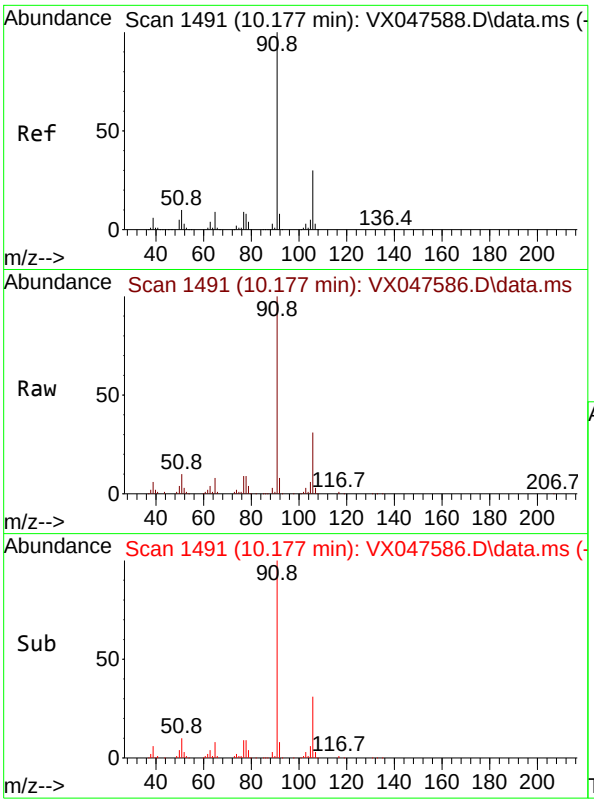


#66
1,1,1,2-Tetrachloroethane
Concen: 5.149 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:131 Resp: 12807

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	142.0
119	63.5	32.0	96.0

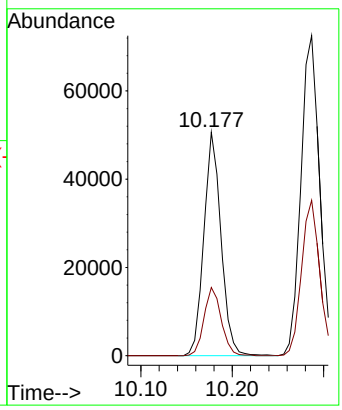




#67
Ethyl Benzene
Concen: 5.299 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 6590

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5



Instrument :
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ClientSampleId :
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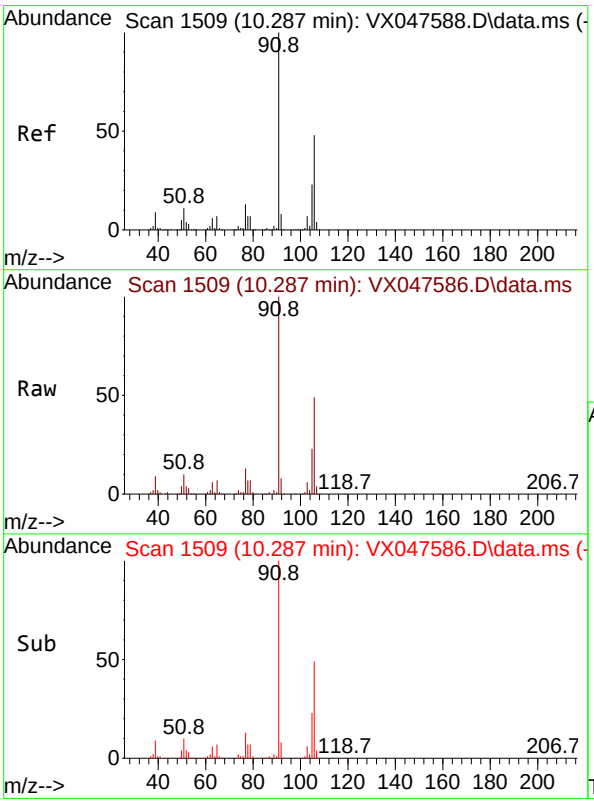
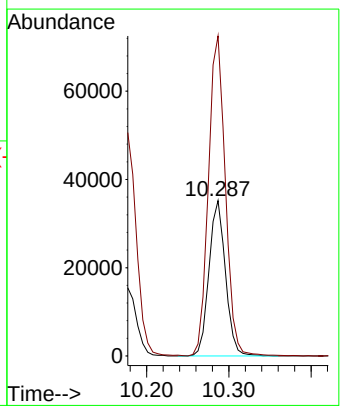
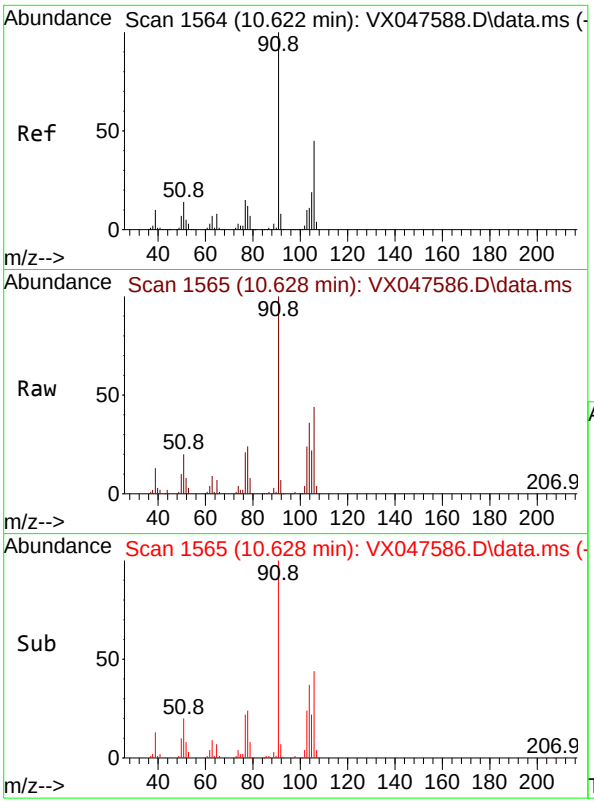


#68
m/p-Xylenes
Concen: 10.613 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:106 Resp: 49132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	167.8	251.8

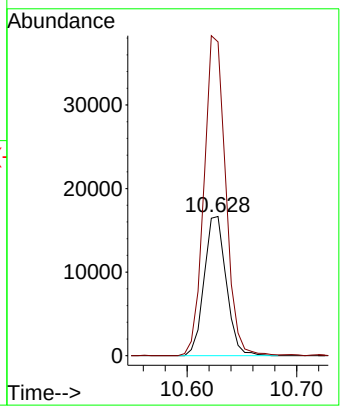




#69
o-Xylene
Concen: 5.204 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:106 Resp: 2330

Ion	Ratio	Lower	Upper
106	100		
91	226.3	111.1	333.4



Instrument :
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ClientSampleId :
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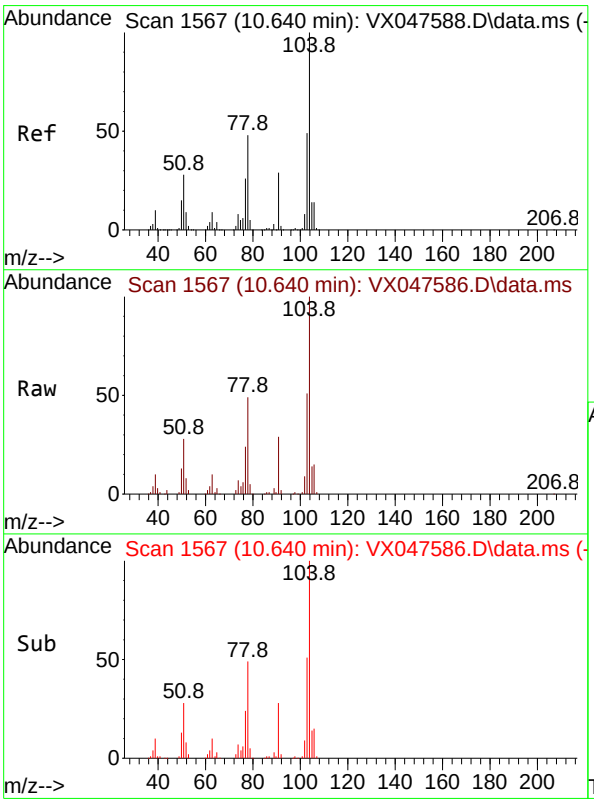
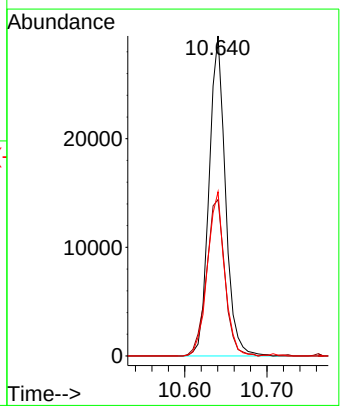
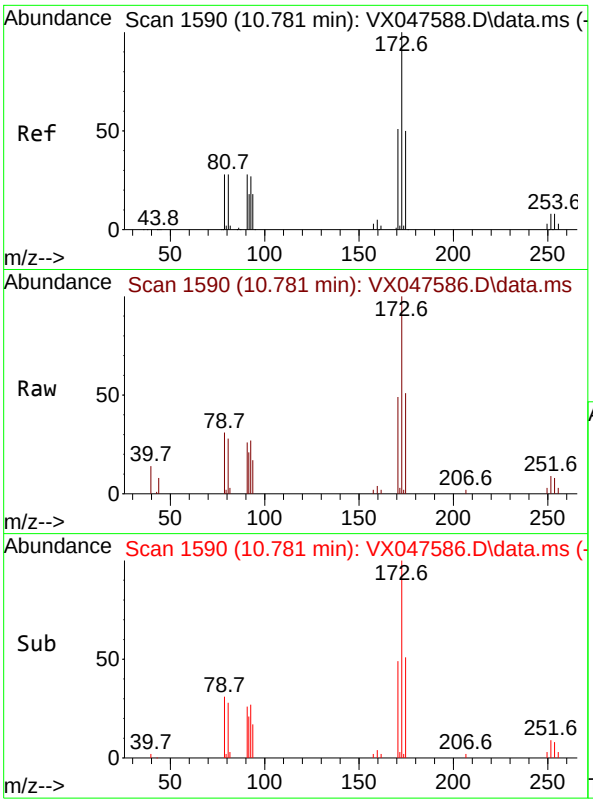


#70
Styrene
Concen: 5.210 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:104 Resp: 40872

Ion	Ratio	Lower	Upper
104	100		
78	54.8	43.1	64.7
103	53.7	43.1	64.7

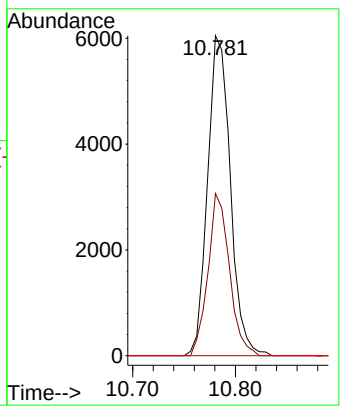




#71
Bromoform
Concen: 5.006 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:173 Resp: 929

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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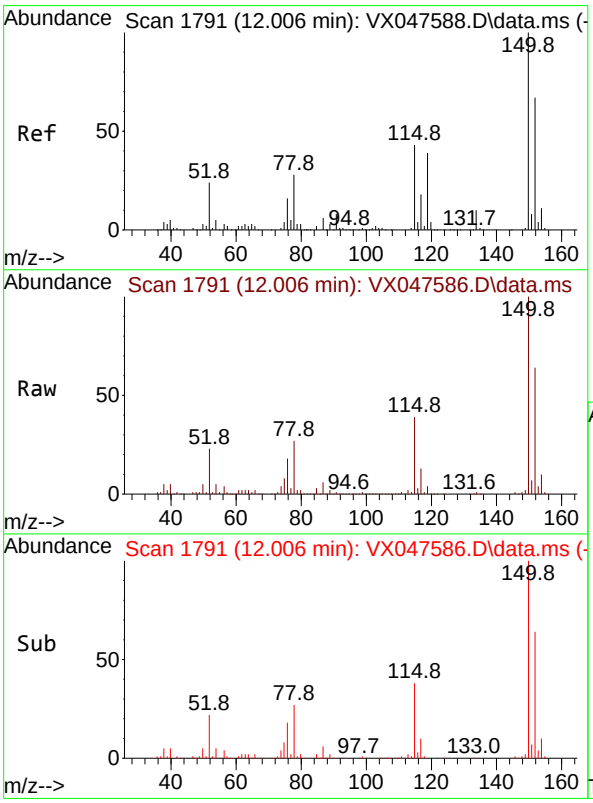
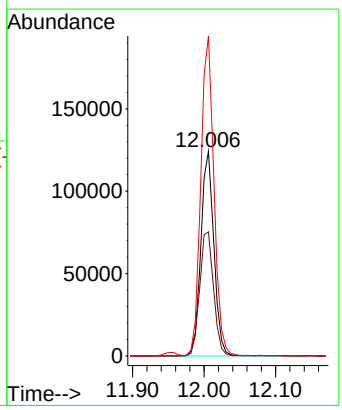
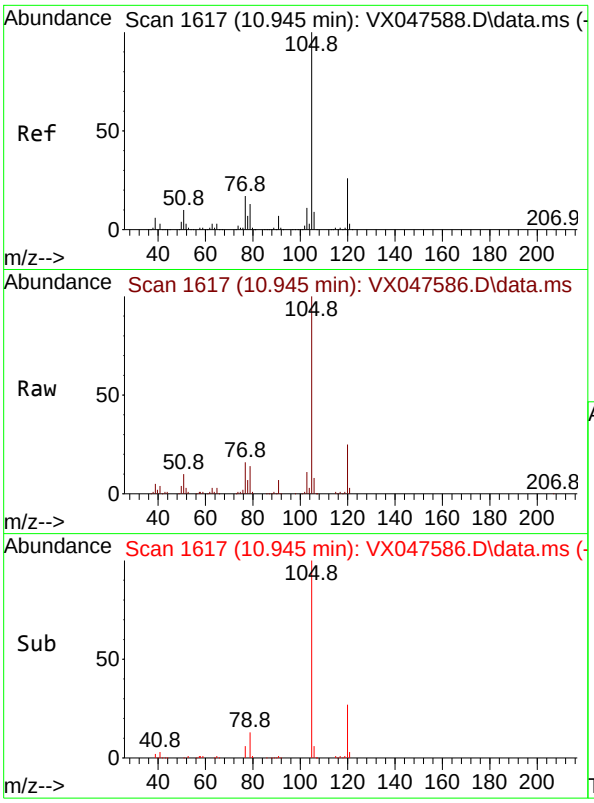


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:152 Resp: 156219

Ion	Ratio	Lower	Upper
152	100		
115	65.6	44.9	134.5
150	157.8	0.0	352.0

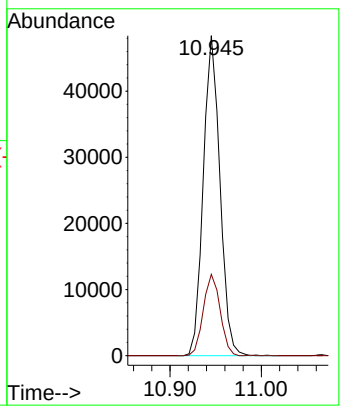




#73
Isopropylbenzene
Concen: 5.139 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 6102

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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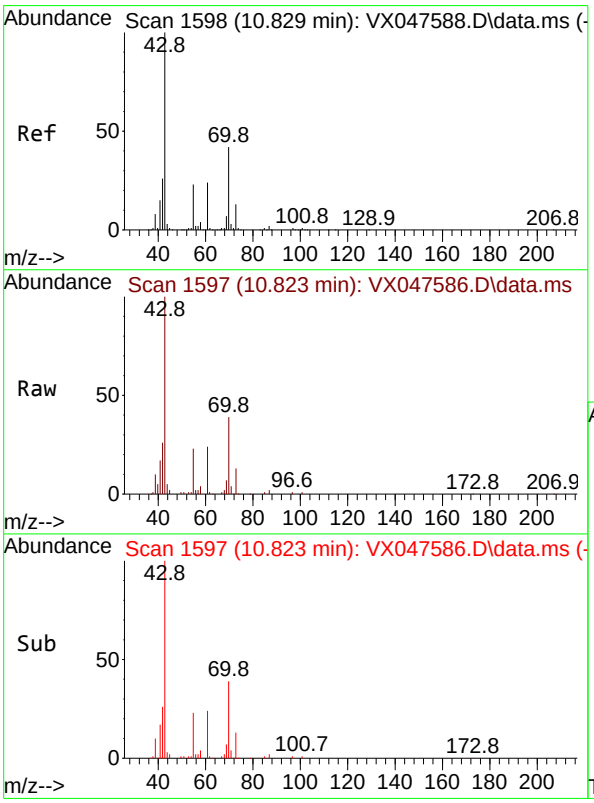
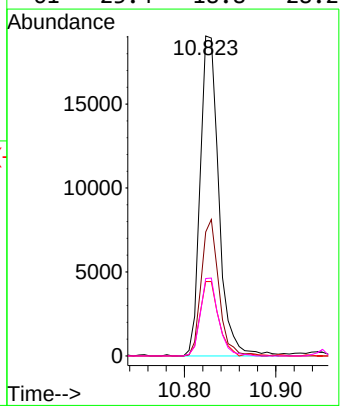
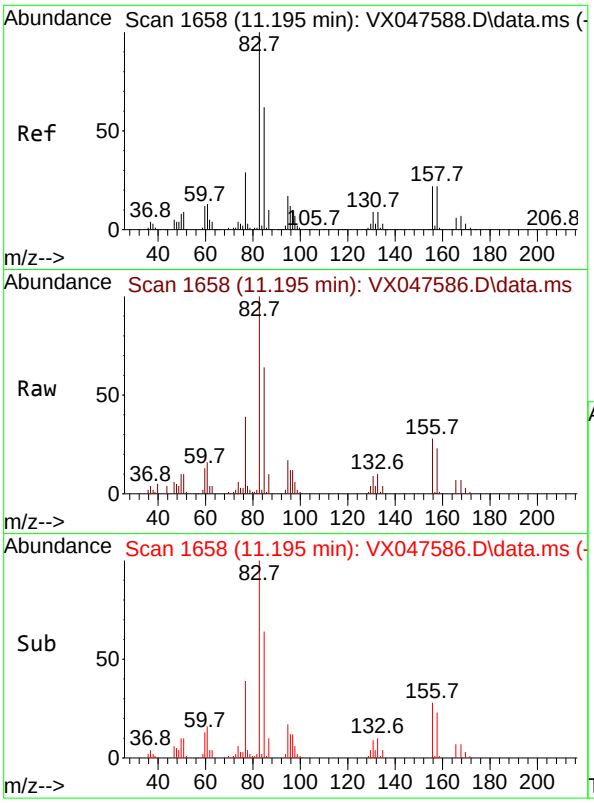


#74
N-amyl acetate
Concen: 4.980 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 26969

Ion	Ratio	Lower	Upper
43	100		
70	39.9	32.0	48.0
55	23.1	18.9	28.3
61	23.4	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 5.138 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 1846

Ion	Ratio	Lower	Upper
83	100		
131	8.2	5.0	14.9
85	64.4	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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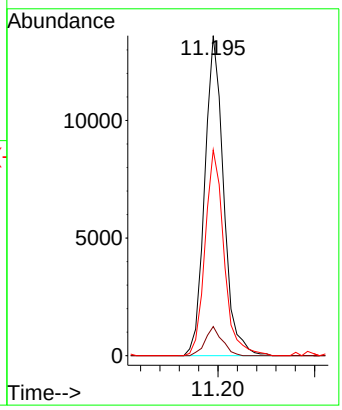
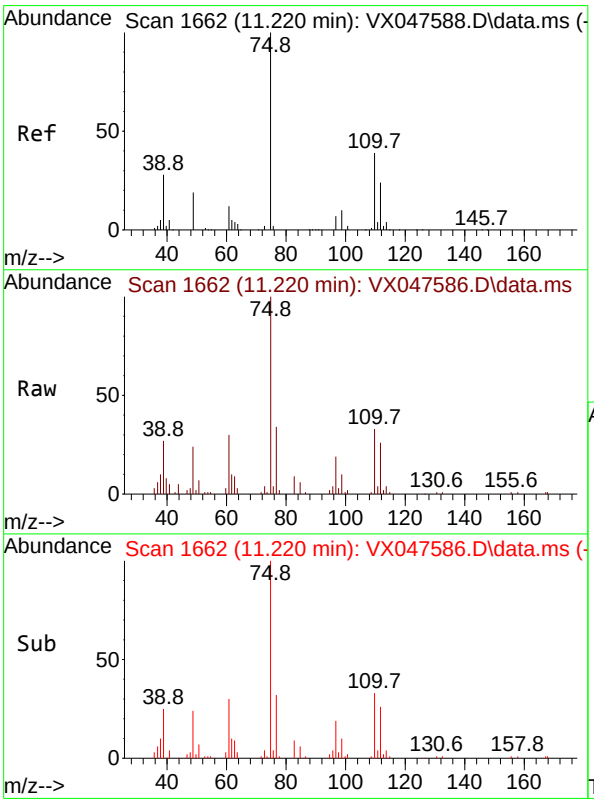
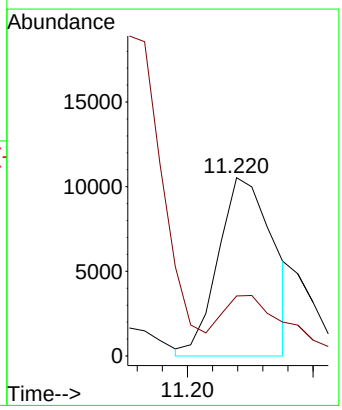


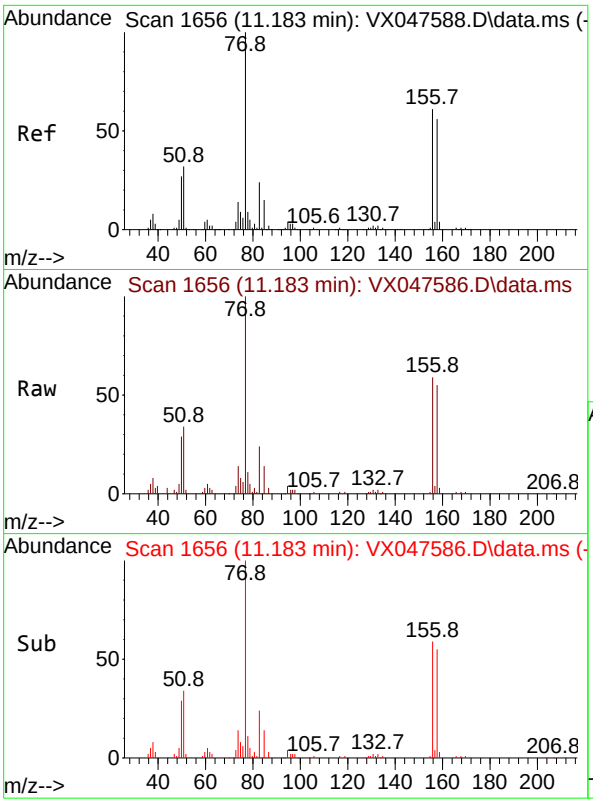


#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 15982

Ion	Ratio	Lower	Upper
75	100		
77	40.6	18.8	56.4

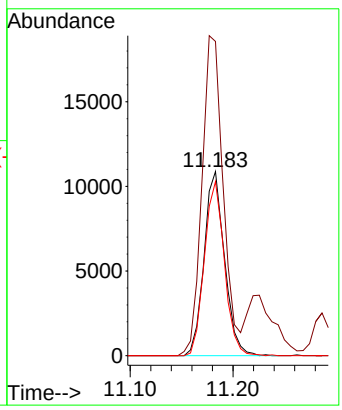




#77
Bromobenzene
Concen: 5.150 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:156 Resp: 1506

Ion	Ratio	Lower	Upper
156	100		
77	180.3	89.7	269.1
158	92.6	47.9	143.6



Instrument :
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ClientSampleId :
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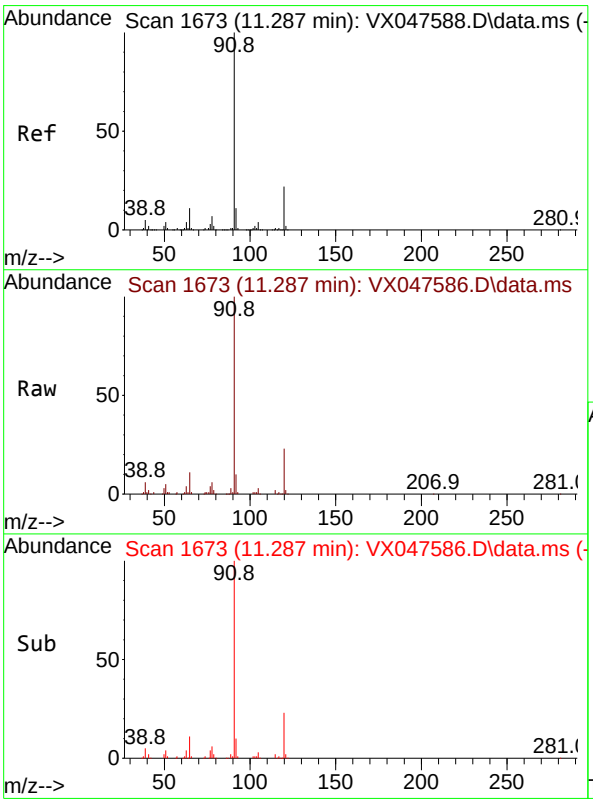
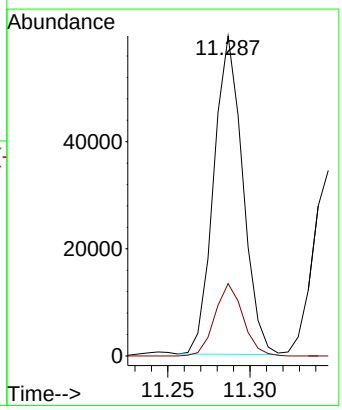
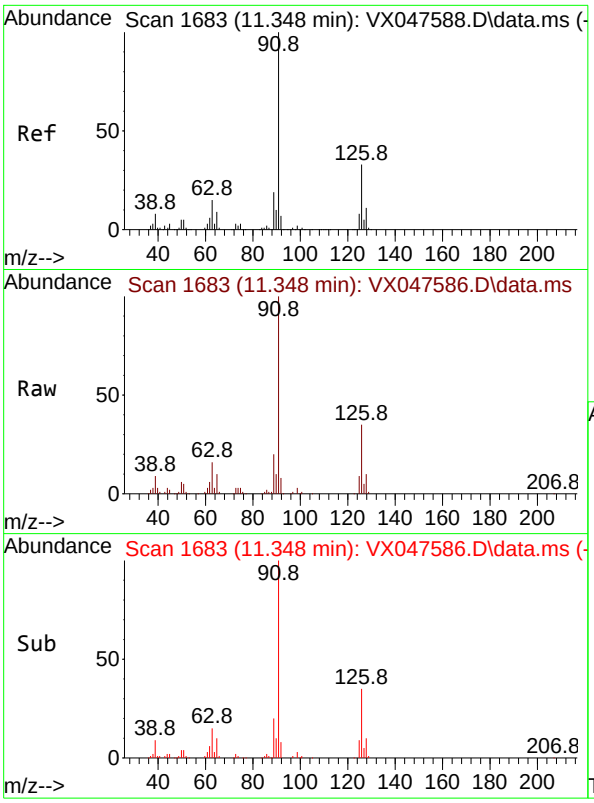


#78
n-propylbenzene
Concen: 5.192 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 72900

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.1

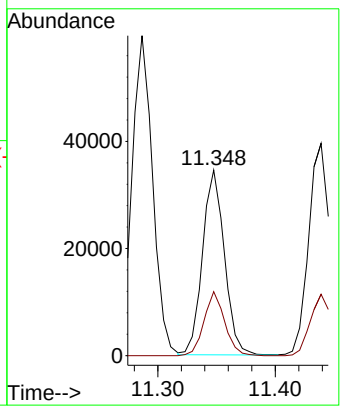




#79
2-Chlorotoluene
Concen: 5.194 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 4466

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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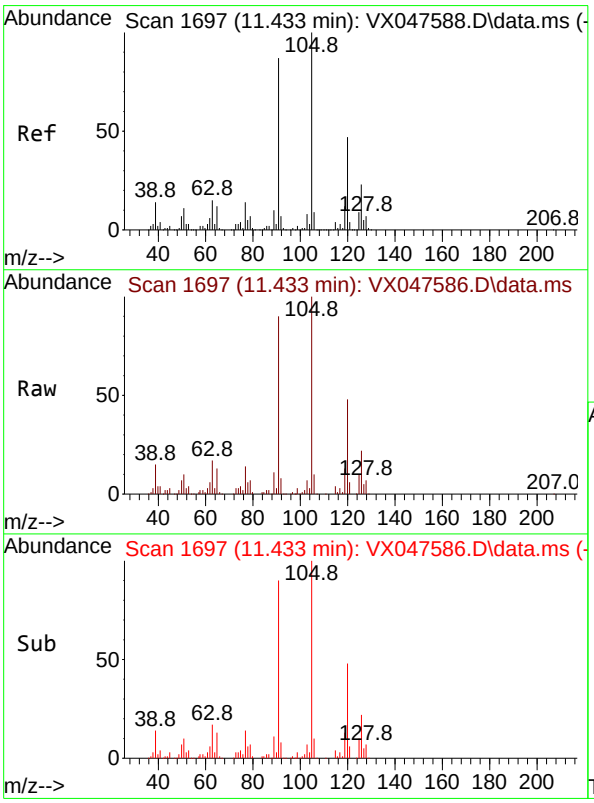
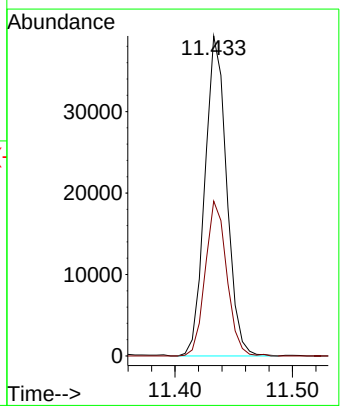
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

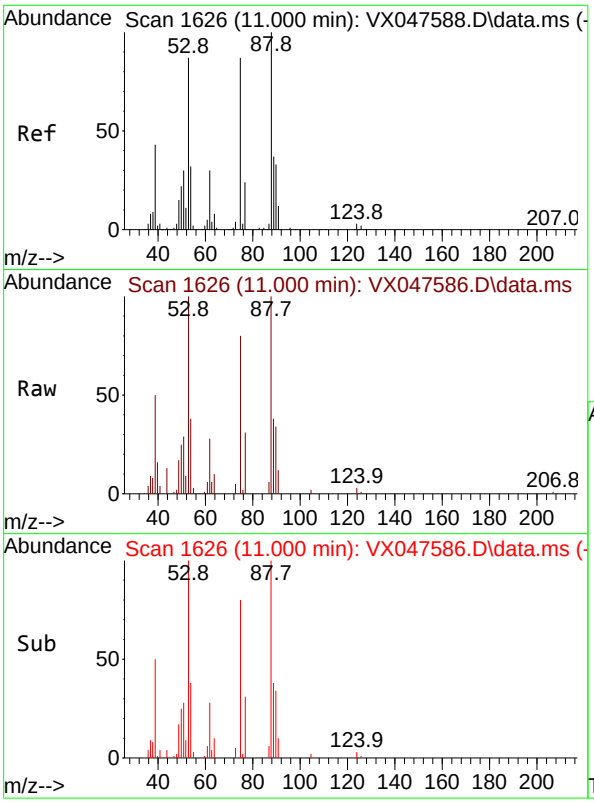


#80
1,3,5-Trimethylbenzene
Concen: 5.179 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 50535

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 4.364 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

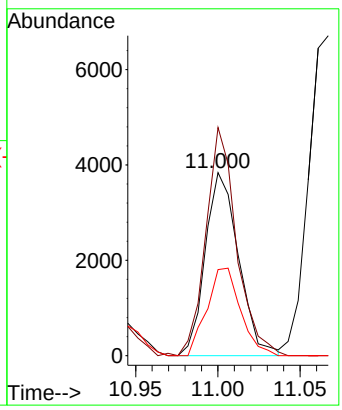
Tgt Ion: 75 Resp: 541

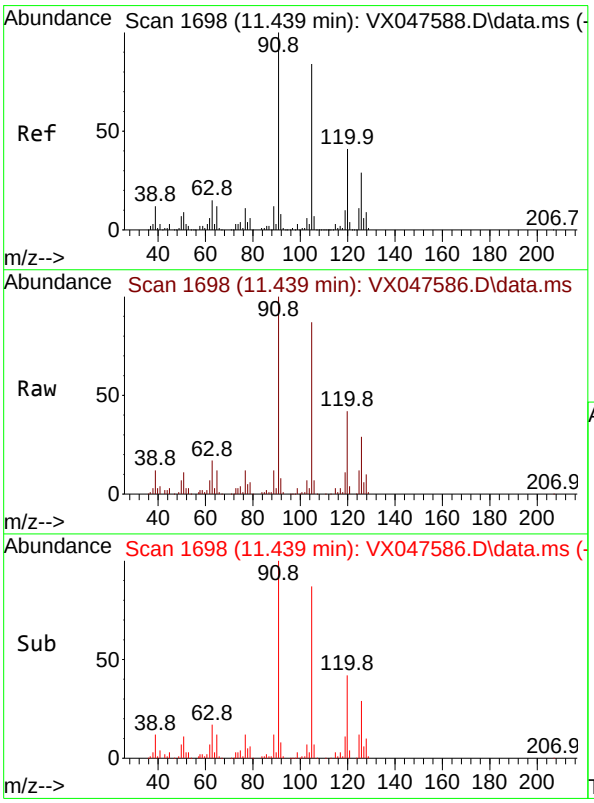
Ion	Ratio	Lower	Upper
75	100		
53	114.9	83.4	125.2
89	48.3	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

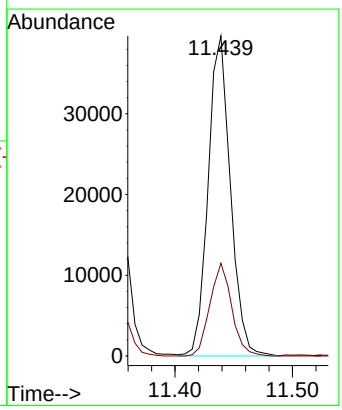


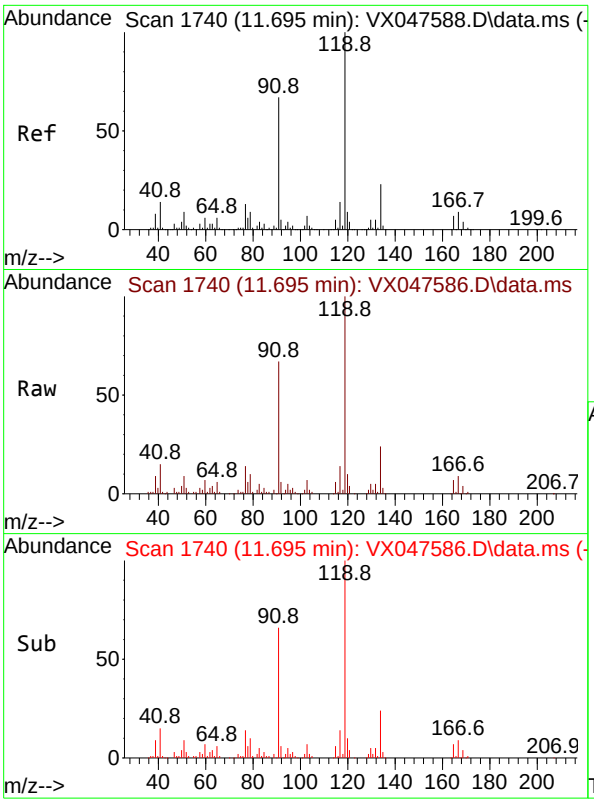


#82
4-Chlorotoluene
Concen: 5.149 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 52294

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.2	42.6

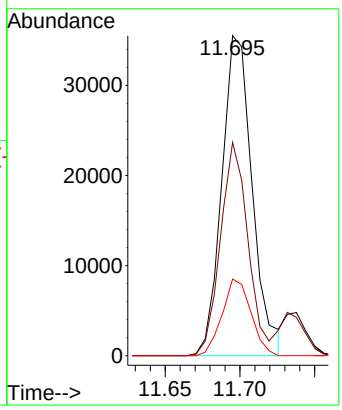




#83
tert-Butylbenzene
Concen: 5.041 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:119 Resp: 5035

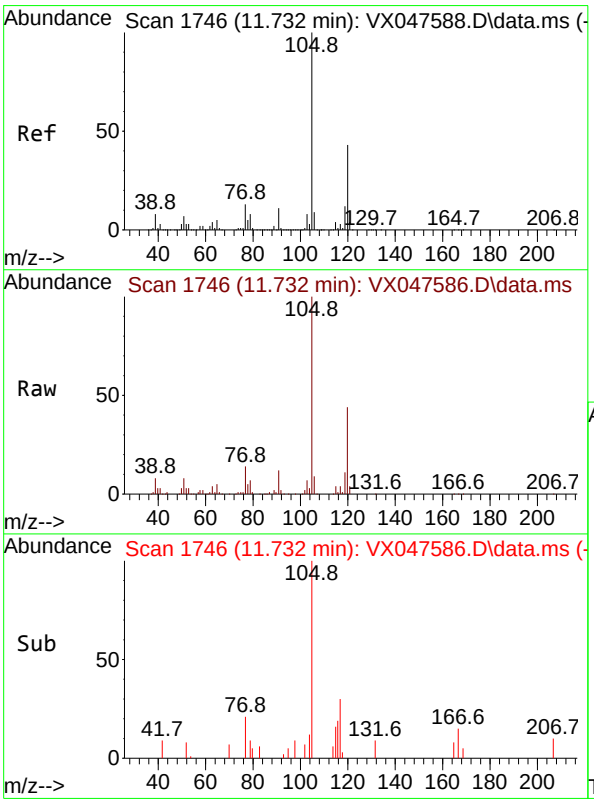
Ion	Ratio	Lower	Upper
119	100		
91	60.1	29.6	88.8
134	22.7	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

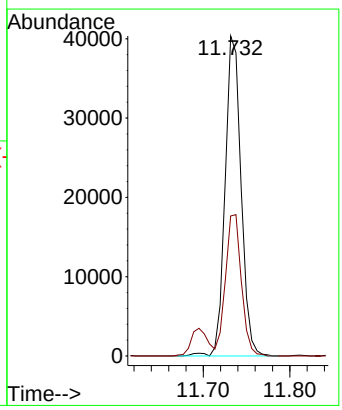
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

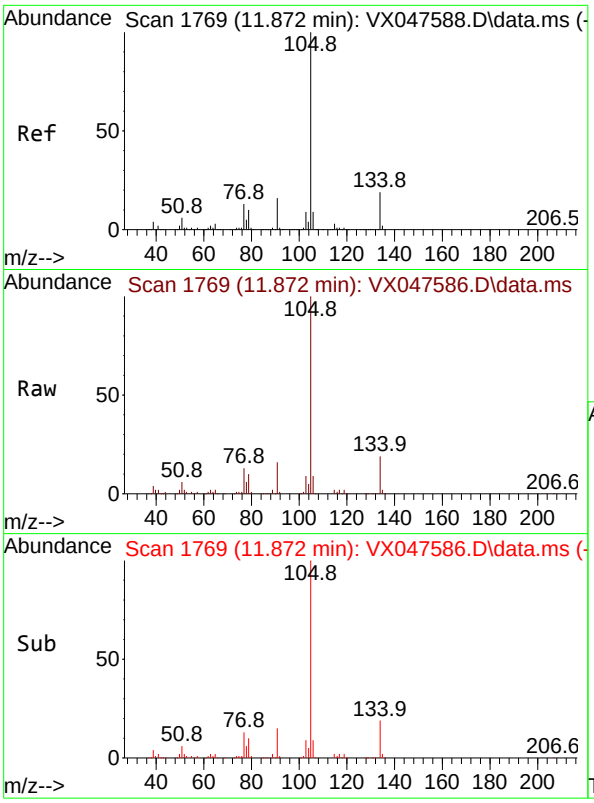


#84
1,2,4-Trimethylbenzene
Concen: 5.214 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 51583

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

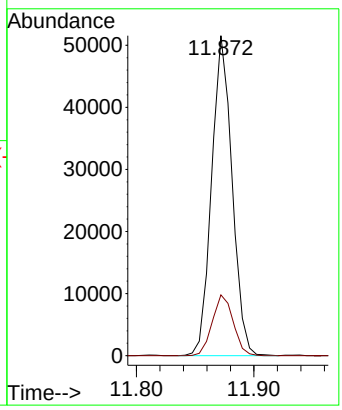




#85
sec-Butylbenzene
Concen: 5.268 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 6250

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
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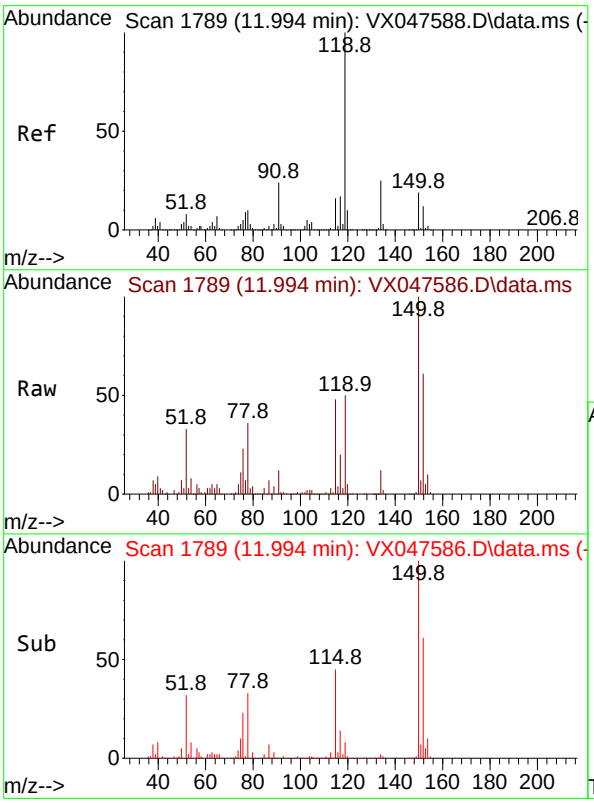
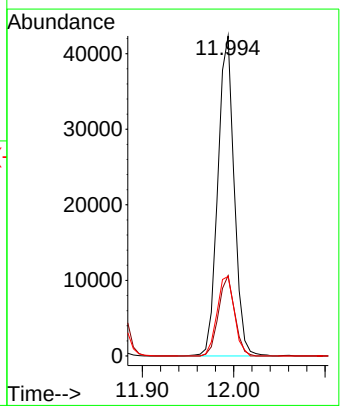
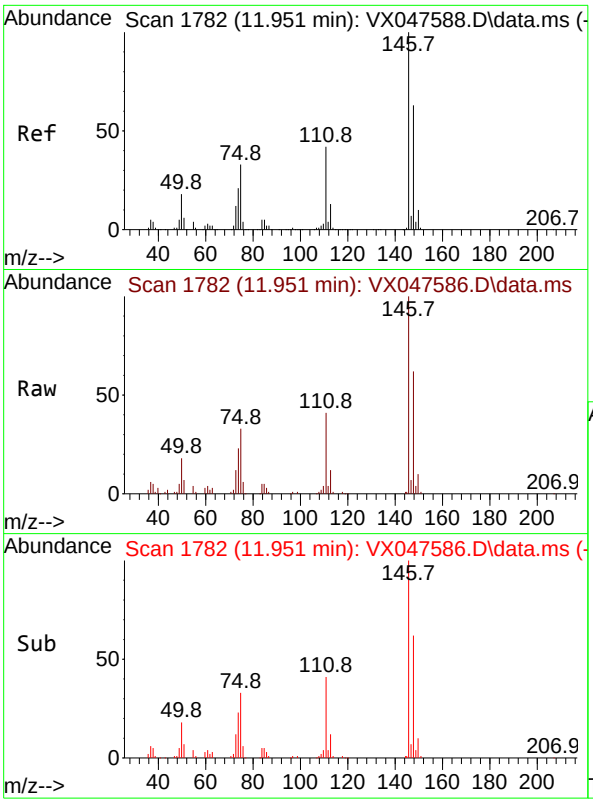


#86
p-Isopropyltoluene
Concen: 5.244 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:119 Resp: 52674

Ion	Ratio	Lower	Upper
119	100		
134	24.7	12.6	37.8
91	26.2	12.6	37.6

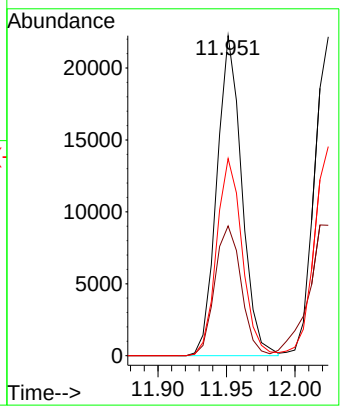




#87
1,3-Dichlorobenzene
Concen: 5.175 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 2811

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	63.4	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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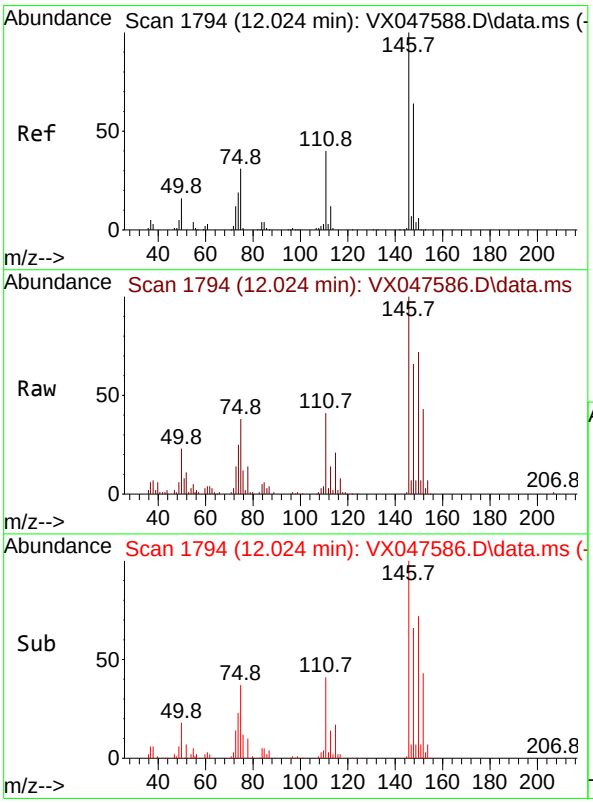
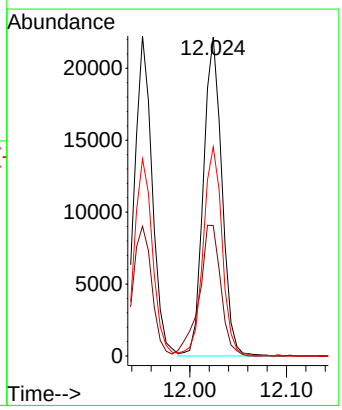
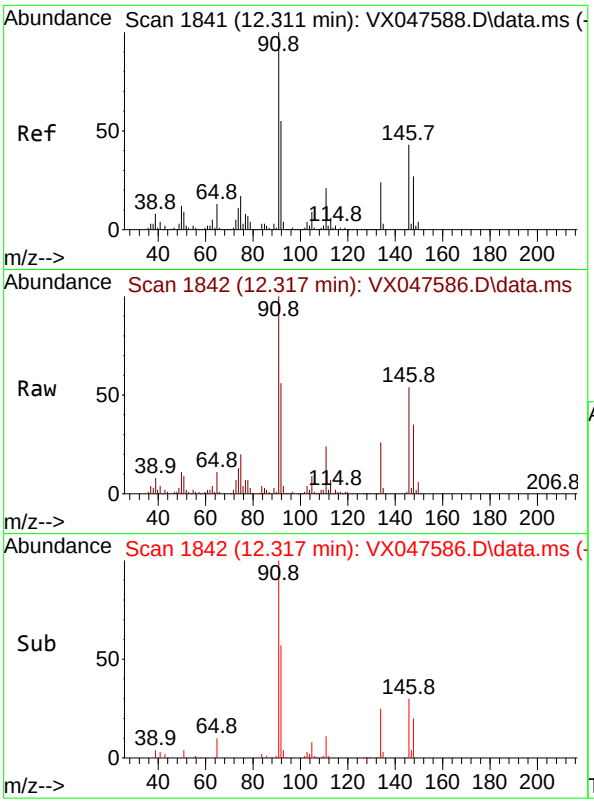


#88
1,4-Dichlorobenzene
Concen: 5.294 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 29519

Ion	Ratio	Lower	Upper
146	100		
111	47.8	20.8	62.4
148	66.9	31.7	95.1

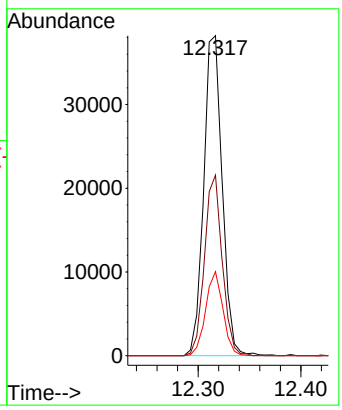




#89
n-Butylbenzene
Concen: 5.159 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 4795

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.6	82.7
134	24.6	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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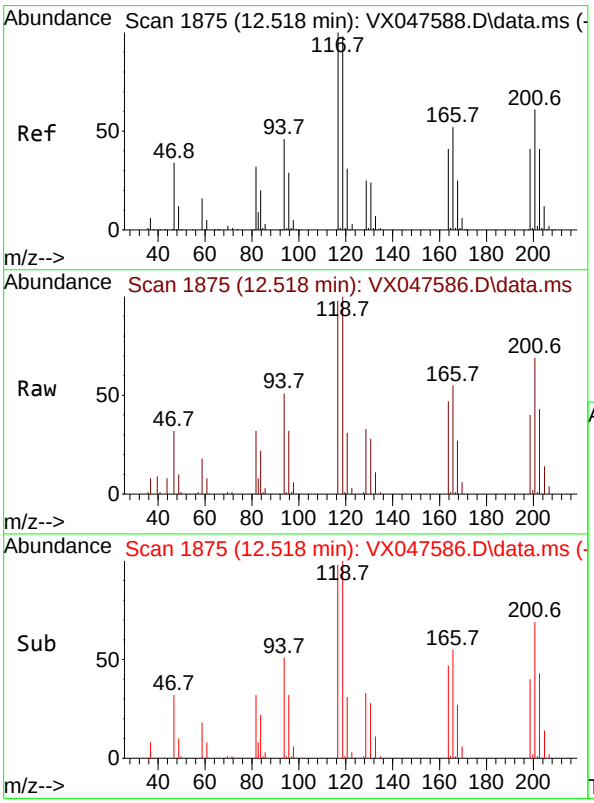
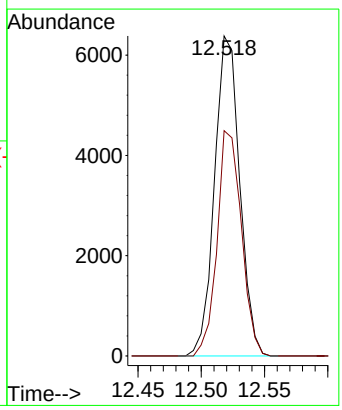
Supervised By :Mahesh Dadoda 09/18/2025

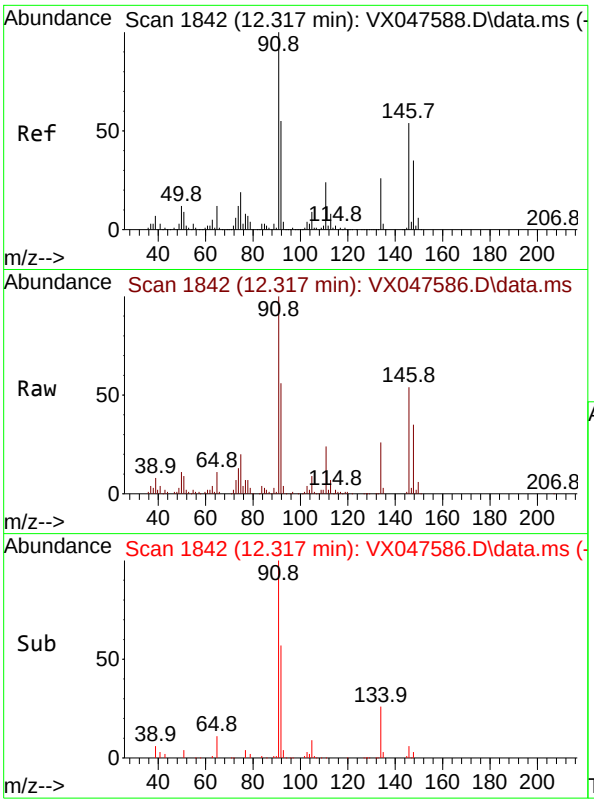


#90
Hexachloroethane
Concen: 5.007 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 8830

Ion	Ratio	Lower	Upper
117	100		
201	67.9	34.2	102.5

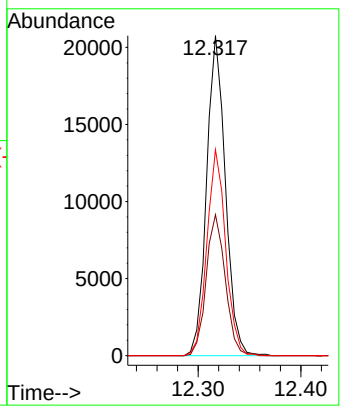




#91
1,2-Dichlorobenzene
Concen: 5.102 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 2640

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.2	66.6
148	64.2	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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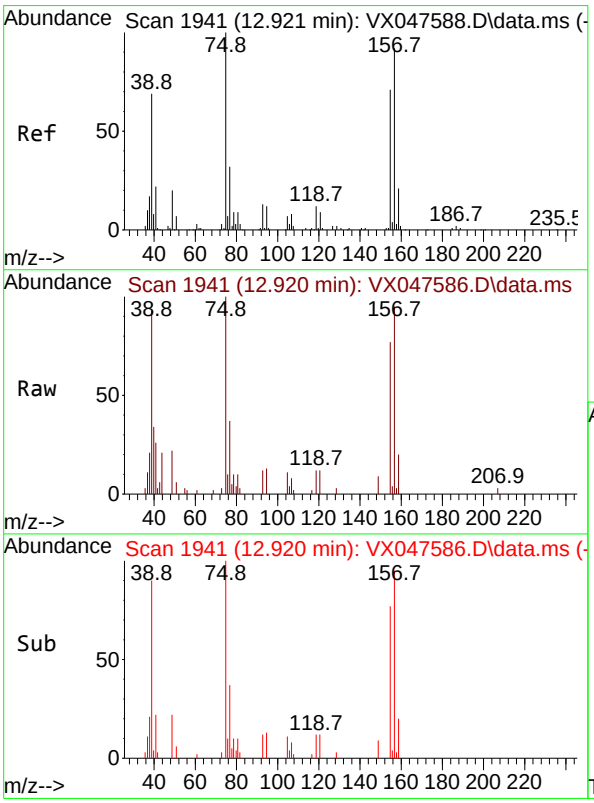
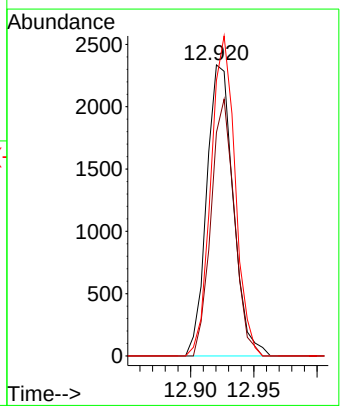
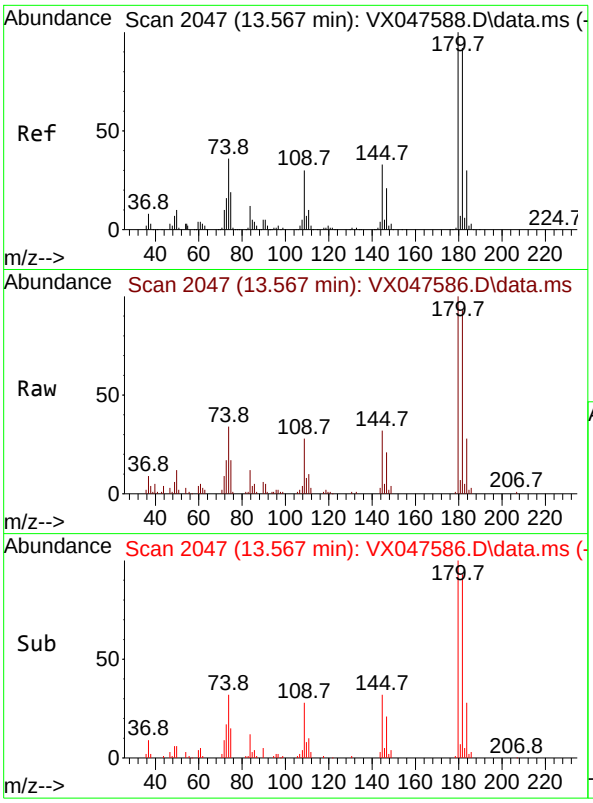


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.690 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 3412

Ion	Ratio	Lower	Upper
75	100		
155	77.4	37.7	113.1
157	100.1	49.8	149.4

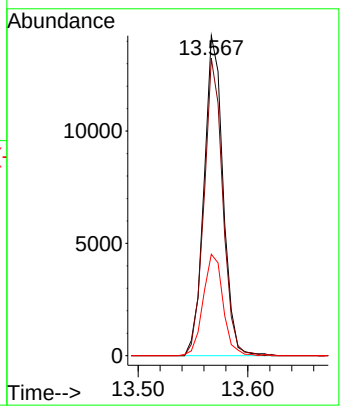




#93
1,2,4-Trichlorobenzene
Concen: 5.103 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:180 Resp: 1716

Ion	Ratio	Lower	Upper
180	100		
182	91.2	46.6	139.8
145	33.2	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
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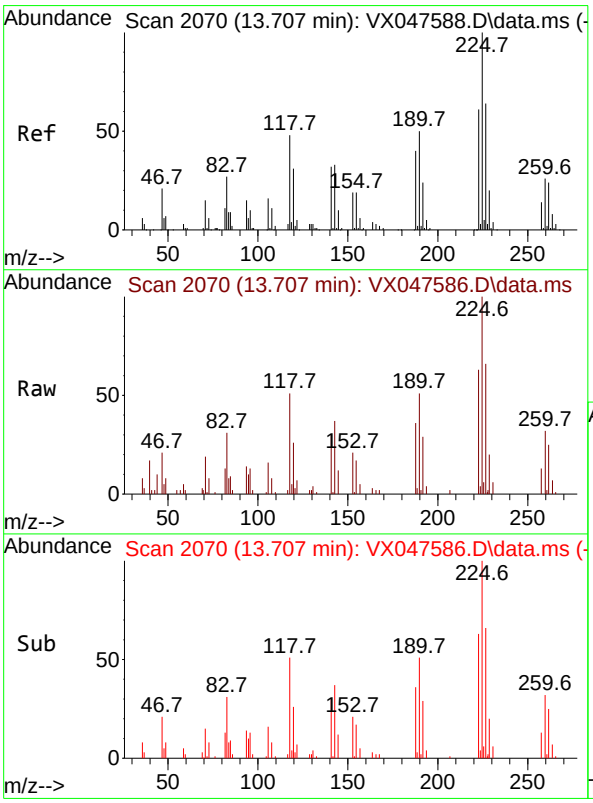
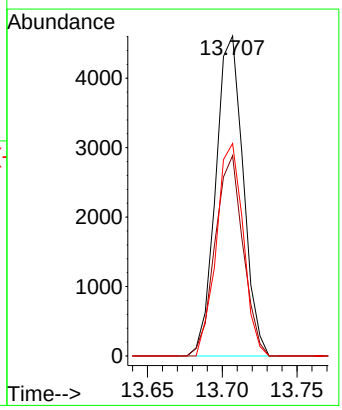
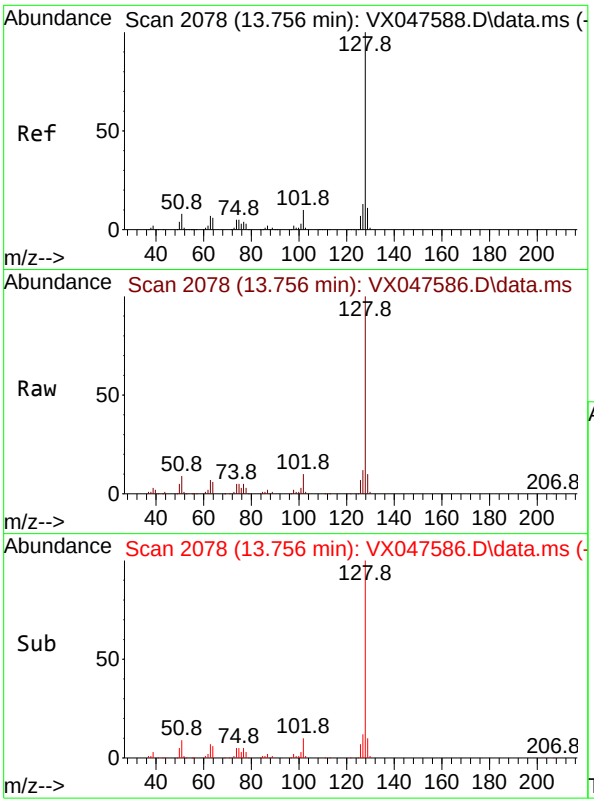


#94
Hexachlorobutadiene
Concen: 5.158 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:225 Resp: 5894

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.7	95.1
227	64.7	32.0	96.0

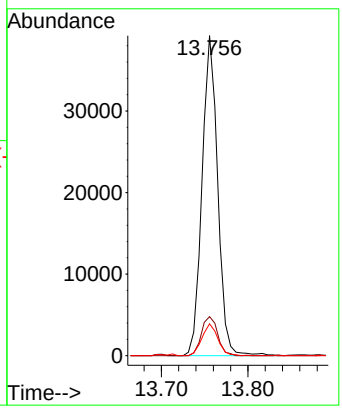




#95
Naphthalene
Concen: 4.808 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:128 Resp: 4925

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.1	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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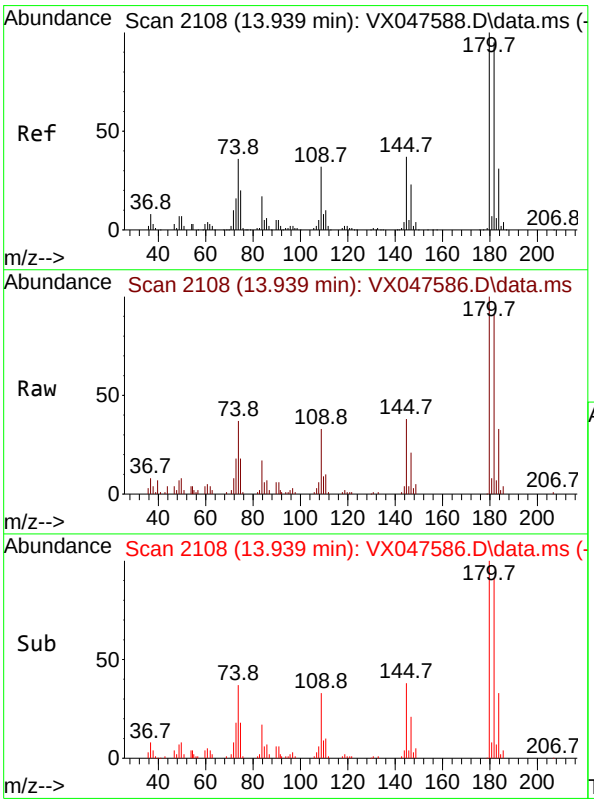
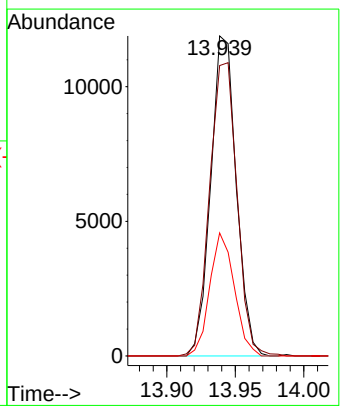


#96
1,2,3-Trichlorobenzene
Concen: 4.921 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:180 Resp: 15400

Ion	Ratio	Lower	Upper
180	100		
182	98.0	47.6	142.8
145	37.1	17.9	53.7



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Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	189559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	336287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	49073	16.264	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 32.520%#			
35) Dibromofluoromethane	5.379	113	35788	15.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 31.740%#			
50) Toluene-d8	8.634	98	126875	16.258	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 32.520%#			
62) 4-Bromofluorobenzene	11.067	95	48454	16.360	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 32.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	44126	22.480	ug/l	100
3) Chloromethane	1.300	50	56023	21.716	ug/l	96
4) Vinyl Chloride	1.386	62	54256	21.485	ug/l	96
5) Bromomethane	1.617	94	34193	21.353	ug/l	100
6) Chloroethane	1.697	64	35551	21.063	ug/l	97
7) Trichlorofluoromethane	1.898	101	78667	20.980	ug/l	100
8) Diethyl Ether	2.136	74	31335	20.429	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	45733	20.859	ug/l	98
10) Methyl Iodide	2.459	142	69935	20.452	ug/l	99
11) Tert butyl alcohol	2.946	59	32456	96.582	ug/l	98
12) 1,1-Dichloroethene	2.325	96	46863	20.808	ug/l	96
13) Acrolein	2.239	56	26159	84.473	ug/l	100
14) Allyl chloride	2.666	41	94710	20.379	ug/l	97
15) Acrylonitrile	3.062	53	130143	104.554	ug/l	99
16) Acetone	2.373	43	151538	115.507	ug/l	100
17) Carbon Disulfide	2.520	76	133296	21.620	ug/l	98
18) Methyl Acetate	2.703	43	54120	18.536	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	168426	20.486	ug/l	98
20) Methylene Chloride	2.788	84	57153	20.581	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50413	20.791	ug/l	94
22) Diisopropyl ether	3.757	45	188598	20.940	ug/l	96
23) Vinyl Acetate	3.715	43	765675	106.218	ug/l	100
24) 1,1-Dichloroethane	3.605	63	98509	20.578	ug/l	99
25) 2-Butanone	4.538	43	179487	109.679	ug/l	94
26) 2,2-Dichloropropane	4.471	77	81413	20.459	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	60865	20.497	ug/l	98
28) Bromochloromethane	4.891	49	34085	16.309	ug/l	100
29) Tetrahydrofuran	4.995	42	102935	104.560	ug/l	97
30) Chloroform	5.080	83	103586	21.413	ug/l	99
31) Cyclohexane	5.464	56	82770	20.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	86500	21.081	ug/l	99
36) 1,1-Dichloropropene	5.684	75	68395	20.754	ug/l	99
37) Ethyl Acetate	4.702	43	74499	21.113	ug/l	96
38) Carbon Tetrachloride	5.665	117	74636	20.844	ug/l	95
39) Methylcyclohexane	7.366	83	79499	21.251	ug/l	98
40) Benzene	6.025	78	210711	21.051	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	38525	21.148	ug/l		99
42) 1,2-Dichloroethane	6.074	62	80646	21.175	ug/l		99
43) Isopropyl Acetate	6.324	43	119623	20.670	ug/l		100
44) Trichloroethene	7.110	130	51369	21.228	ug/l		97
45) 1,2-Dichloropropane	7.415	63	53046	20.697	ug/l		97
46) Dibromomethane	7.568	93	38910	20.862	ug/l		99
47) Bromodichloromethane	7.805	83	80831	21.002	ug/l		98
48) Methyl methacrylate	7.677	41	60182	20.877	ug/l		98
49) 1,4-Dioxane	7.647	88	12047	413.530	ug/l		95
51) 4-Methyl-2-Pentanone	8.561	43	338370	105.456	ug/l		100
52) Toluene	8.708	92	129193	20.950	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	80972	20.625	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	86648	20.650	ug/l		99
55) 1,1,2-Trichloroethane	9.140	97	49857	20.967	ug/l		98
56) Ethyl methacrylate	9.104	69	79011	21.158	ug/l		99
57) 1,3-Dichloropropane	9.293	76	85511	20.934	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	141395	86.617	ug/l		100
59) 2-Hexanone	9.415	43	250007	108.488	ug/l		99
60) Dibromochloromethane	9.506	129	57994	21.167	ug/l		99
61) 1,2-Dibromoethane	9.598	107	51614	21.310	ug/l		99
64) Tetrachloroethene	9.262	164	40840	20.979	ug/l		95
65) Chlorobenzene	10.061	112	140642	20.731	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	48022	20.513	ug/l		99
67) Ethyl Benzene	10.177	91	244737	20.907	ug/l		98
68) m/p-Xylenes	10.287	106	182778	41.951	ug/l		100
69) o-Xylene	10.628	106	87651	20.799	ug/l		98
70) Styrene	10.640	104	154077	20.866	ug/l		99
71) Bromoform	10.780	173	35922	20.550	ug/l	#	98
73) Isopropylbenzene	10.945	105	225730	20.970	ug/l		99
74) N-amyl acetate	10.829	43	104823	21.354	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	68132	20.920	ug/l		99
76) 1,2,3-Trichloropropane	11.225	75	60797m	20.680	ug/l		
77) Bromobenzene	11.183	156	56161	21.183	ug/l		99
78) n-propylbenzene	11.286	91	268399	21.092	ug/l		100
79) 2-Chlorotoluene	11.347	91	166237	21.329	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	187513	21.202	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	21553	19.173	ug/l		96
82) 4-Chlorotoluene	11.439	91	193122	20.980	ug/l		100
83) tert-Butylbenzene	11.695	119	189484	20.929	ug/l		100
84) 1,2,4-Trimethylbenzene	11.738	105	191477	21.355	ug/l		98
85) sec-Butylbenzene	11.872	105	223434	20.777	ug/l		100
86) p-Isopropyltoluene	11.994	119	190931	20.972	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	103584	21.035	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	105819	20.937	ug/l		99
89) n-Butylbenzene	12.317	91	176373	20.937	ug/l		99
90) Hexachloroethane	12.518	117	32526	20.349	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	99493	21.207	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	13729	20.821	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	62722	20.571	ug/l		96
94) Hexachlorobutadiene	13.707	225	20456	19.751	ug/l		98
95) Naphthalene	13.756	128	193134	20.801	ug/l		99
96) 1,2,3-Trichlorobenzene	13.938	180	58409	20.593	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

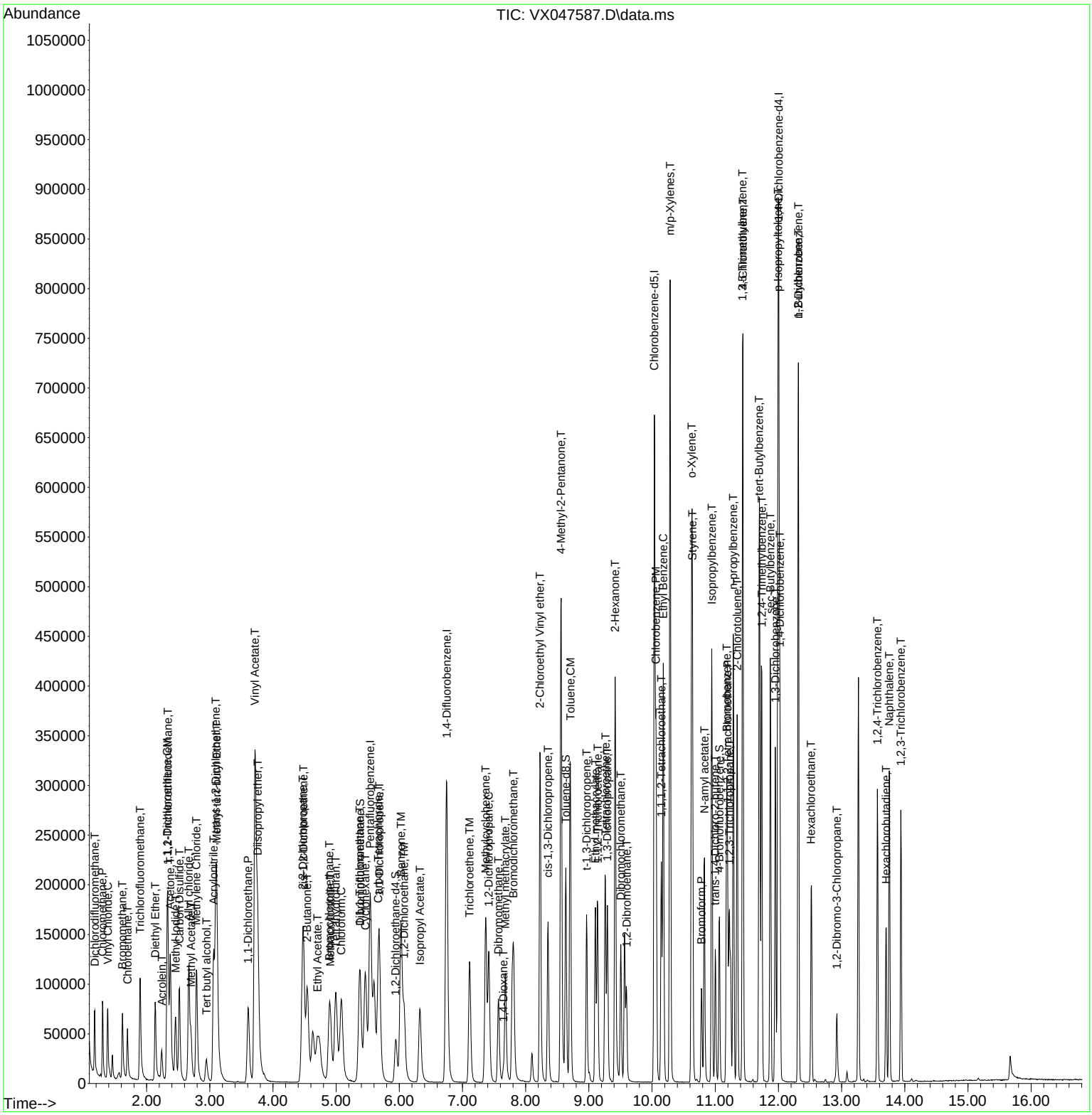
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

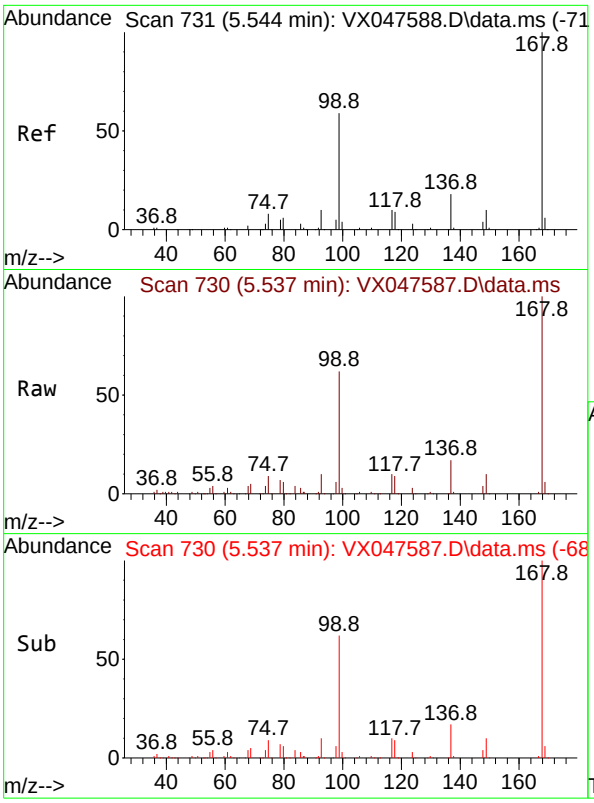
Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

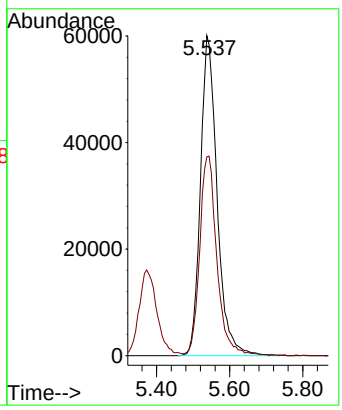




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:168 Resp: 18955

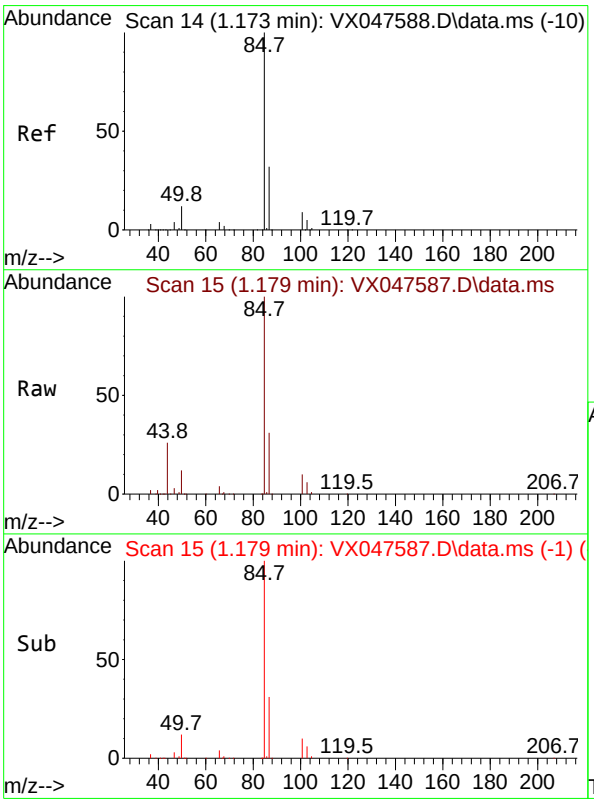
Ion	Ratio	Lower	Upper
168	100		
99	61.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

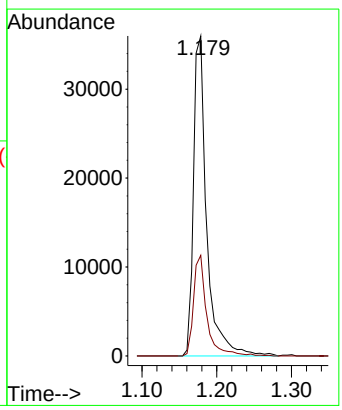
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

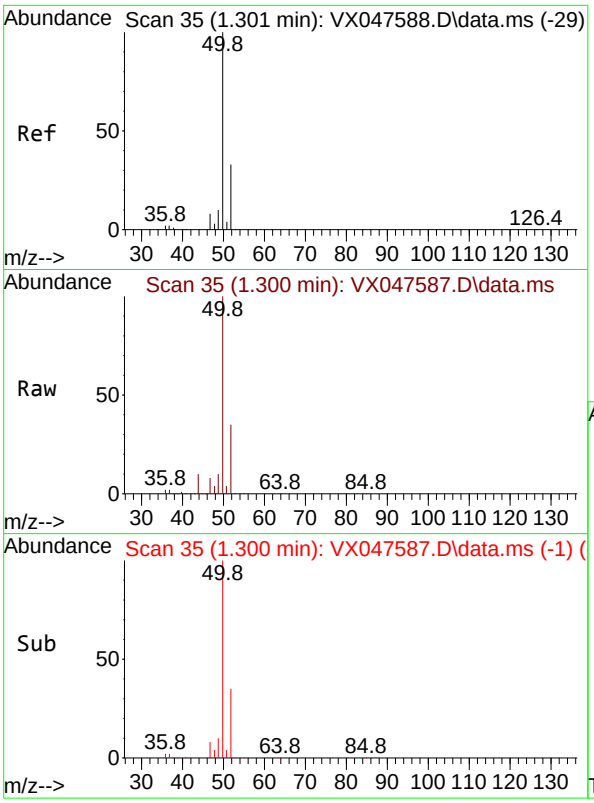


#2
Dichlorodifluoromethane
Concen: 22.480 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 85 Resp: 44126

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3

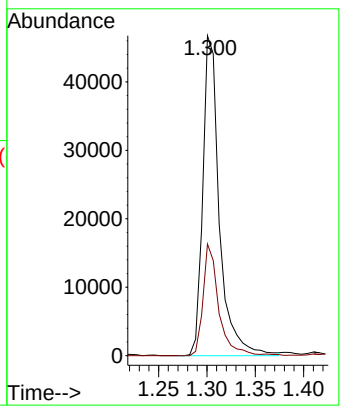




#3
Chloromethane
Concen: 21.716 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 50 Resp: 5602

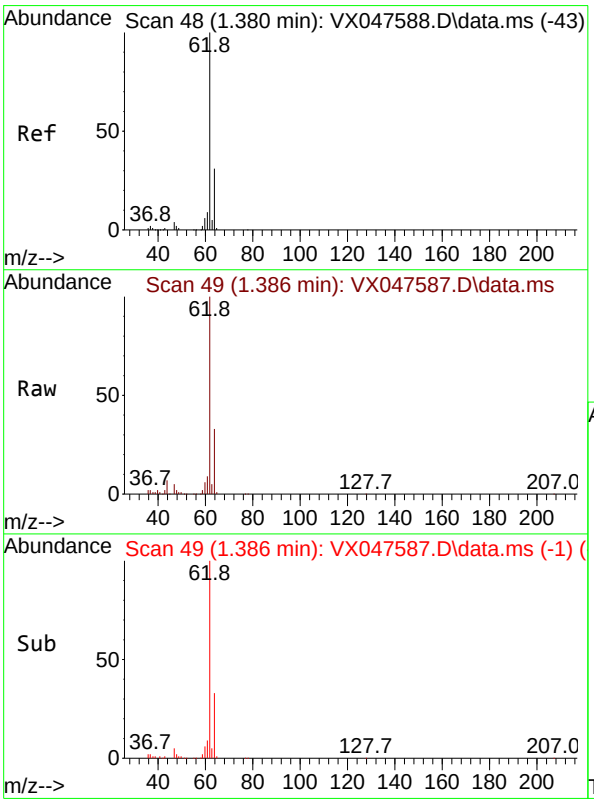
Ion	Ratio	Lower	Upper
50	100		
52	34.9	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

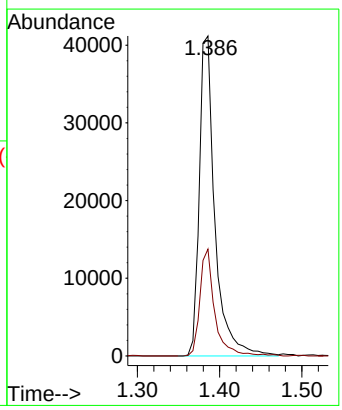
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

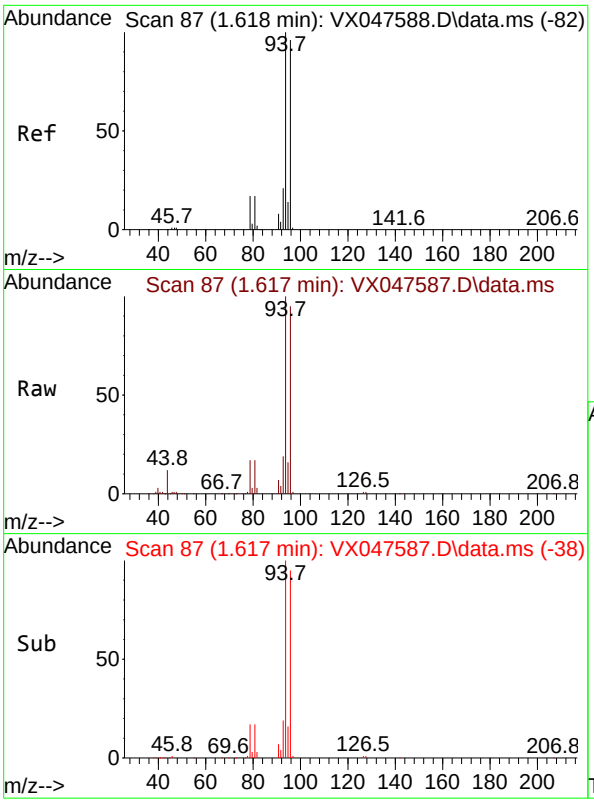


#4
Vinyl Chloride
Concen: 21.485 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 54256

Ion	Ratio	Lower	Upper
62	100		
64	33.4	24.9	37.3

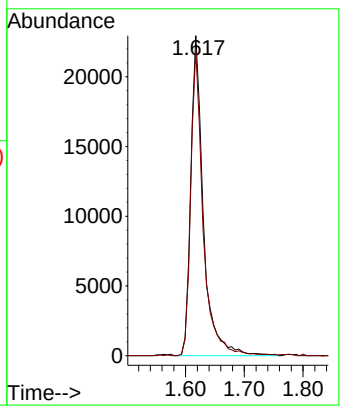




#5
Bromomethane
Concen: 21.353 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 94 Resp: 3419

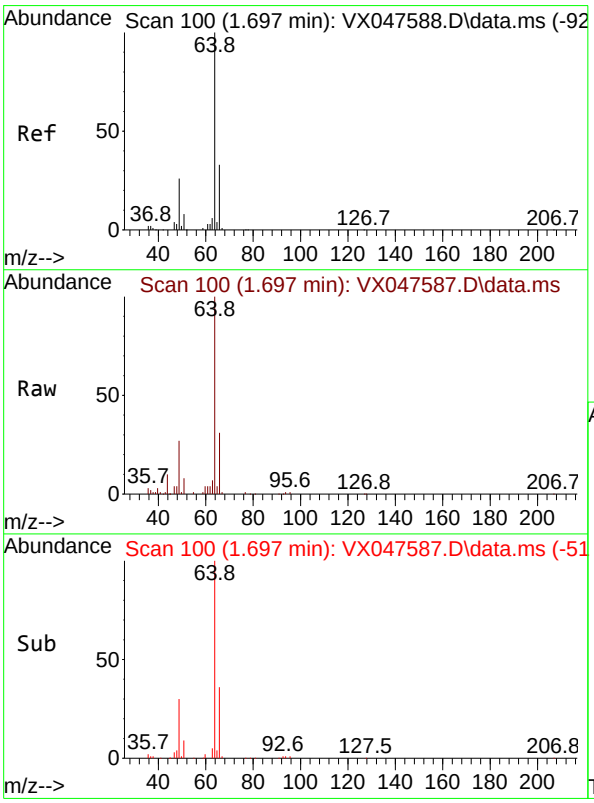
Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

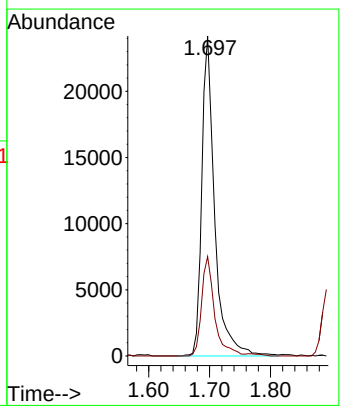
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

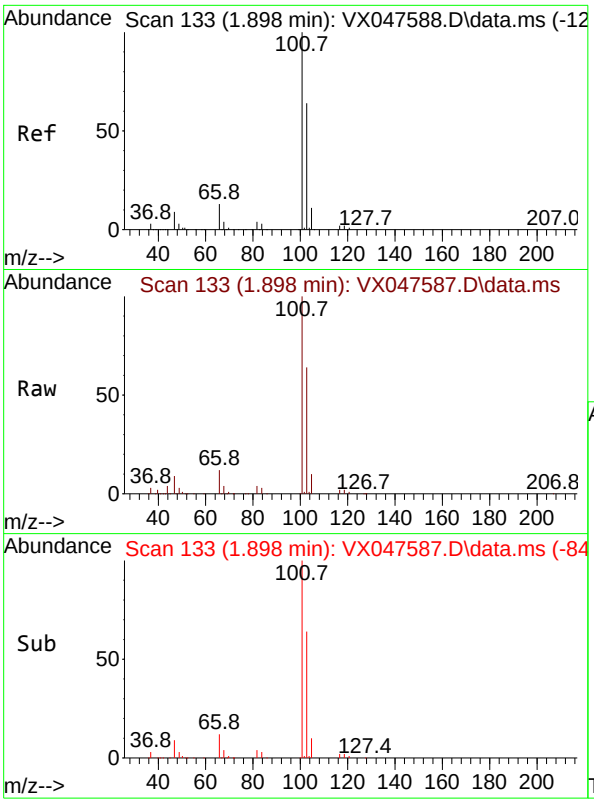


#6
Chloroethane
Concen: 21.063 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 64 Resp: 35551

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.1	39.1





#7
Trichlorofluoromethane
Concen: 20.980 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

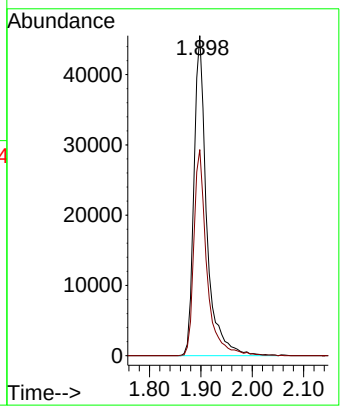
Tgt Ion:101 Resp: 7866

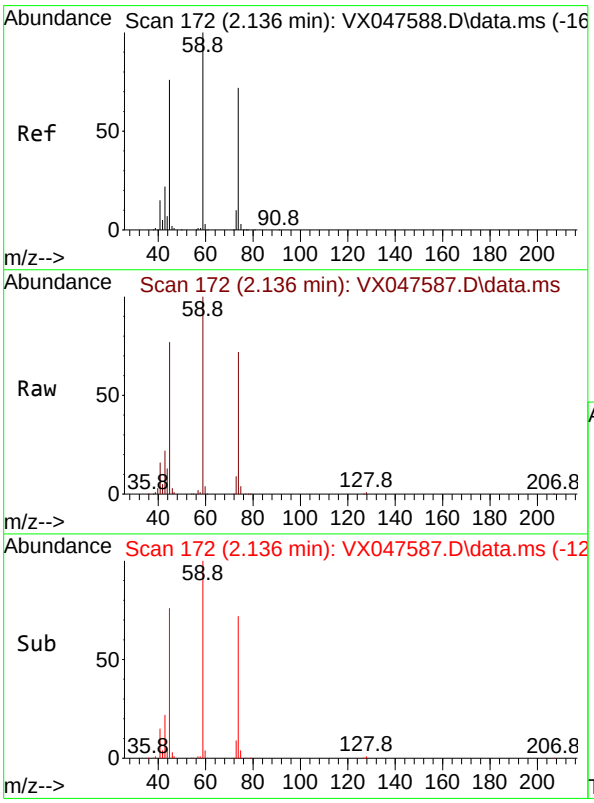
Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

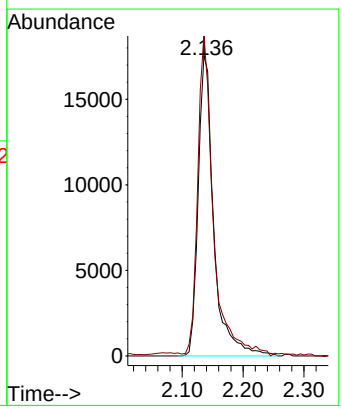


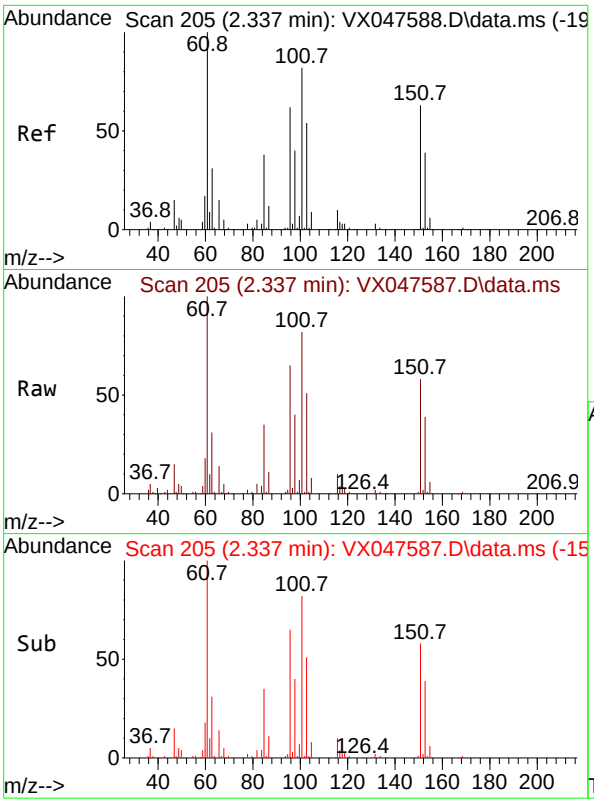


#8
Diethyl Ether
Concen: 20.429 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 74 Resp: 31335

Ion	Ratio	Lower	Upper
74	100		
45	107.0	52.3	156.8

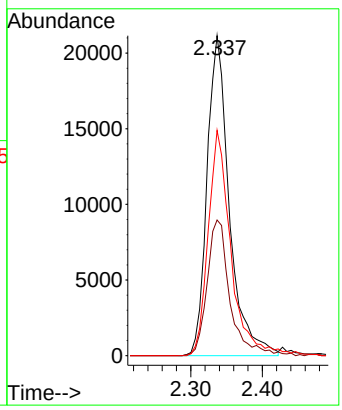




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.859 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:101 Resp: 4573

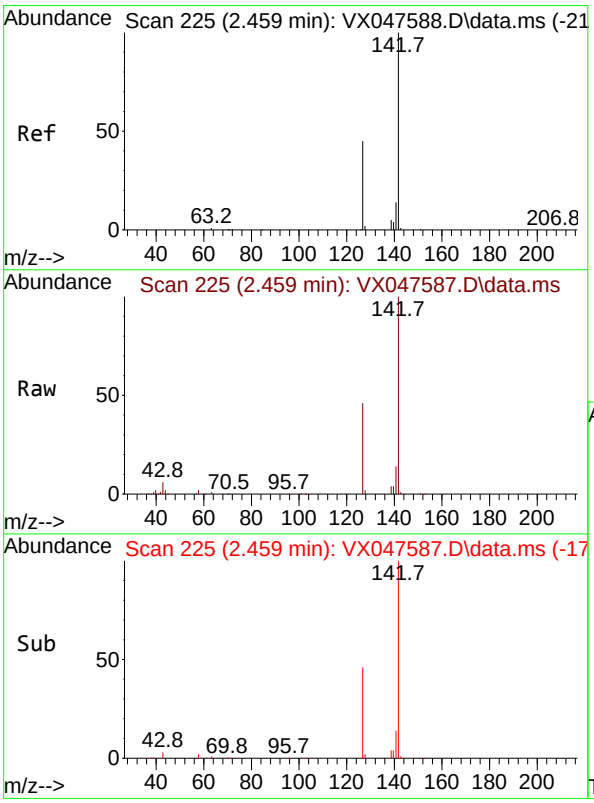
Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	72.1	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

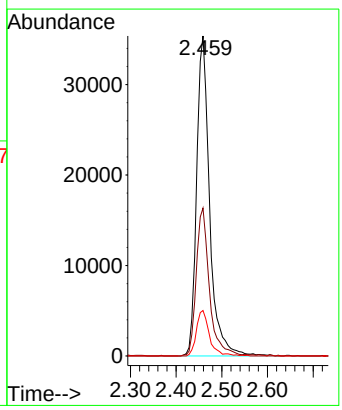
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

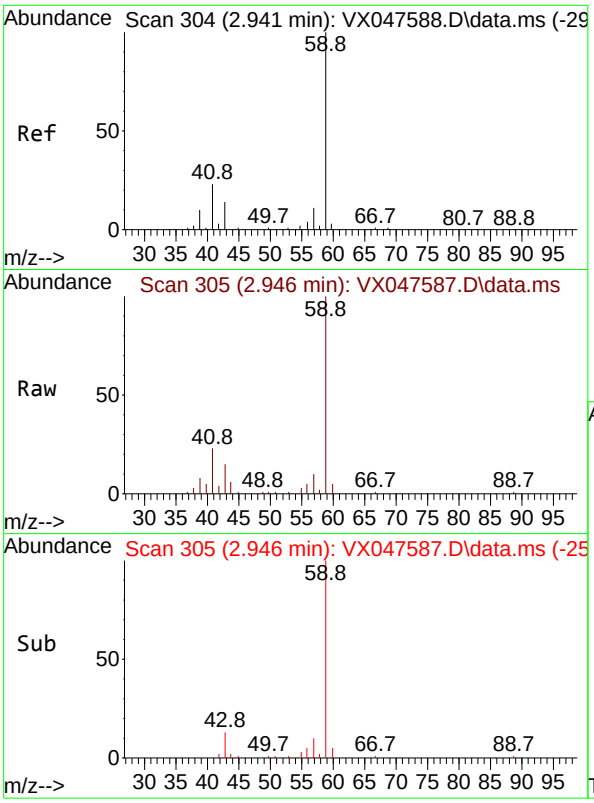


#10
Methyl Iodide
Concen: 20.452 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:142 Resp: 69935

Ion	Ratio	Lower	Upper
142	100		
127	46.9	37.2	55.8
141	14.3	11.4	17.0

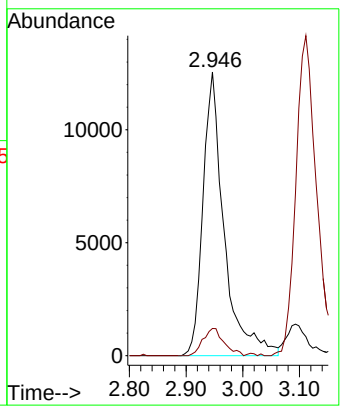




#11
Tert butyl alcohol
Concen: 96.582 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 59 Resp: 3245

Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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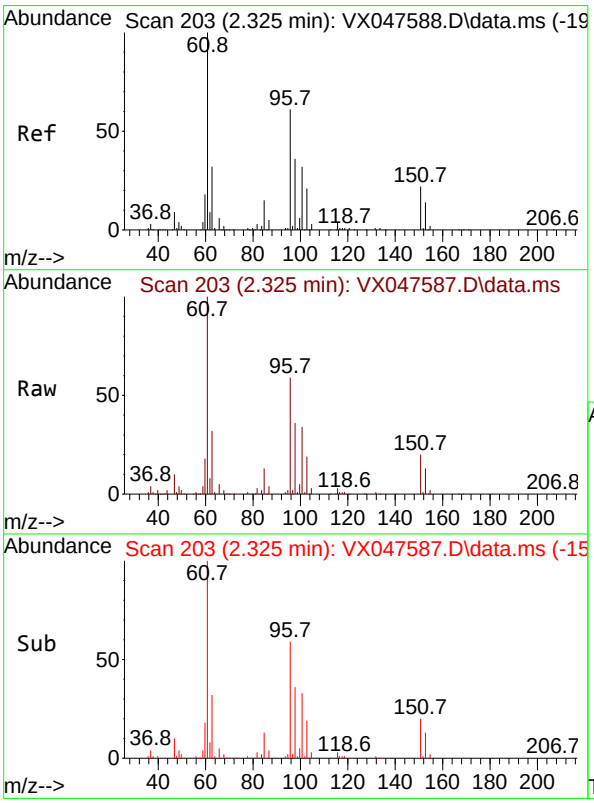
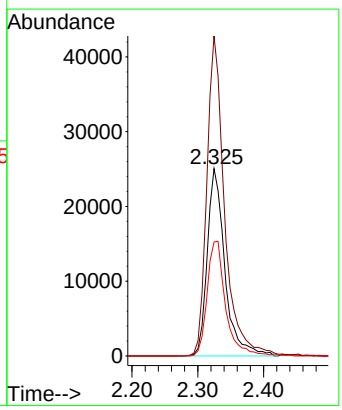
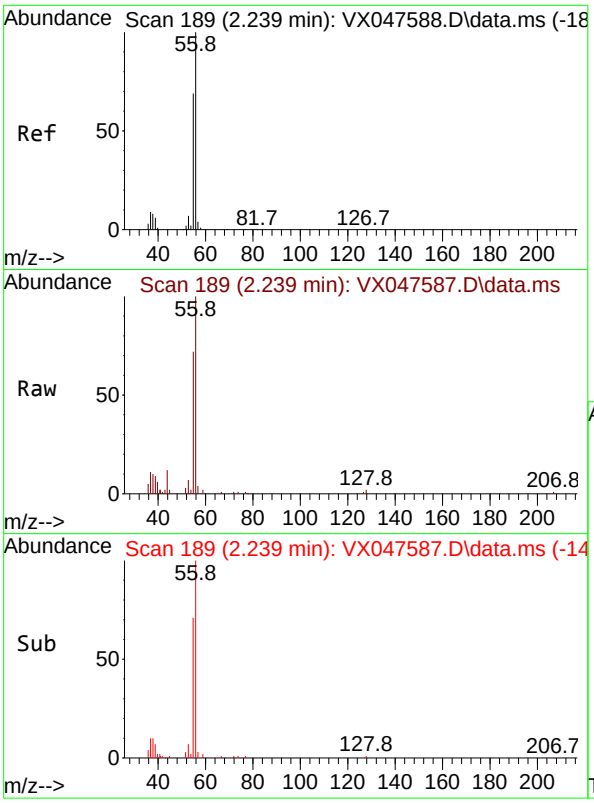


#12
1,1-Dichloroethene
Concen: 20.808 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 46863

Ion	Ratio	Lower	Upper
96	100		
61	170.7	131.0	196.6
98	60.8	47.7	71.5

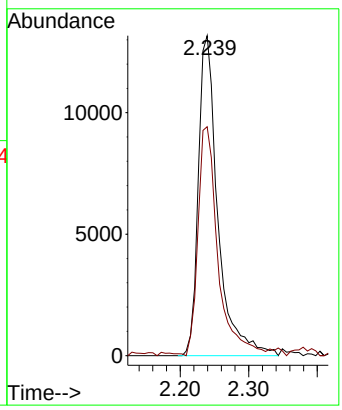




#13
Acrolein
Concen: 84.473 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 56 Resp: 2615

Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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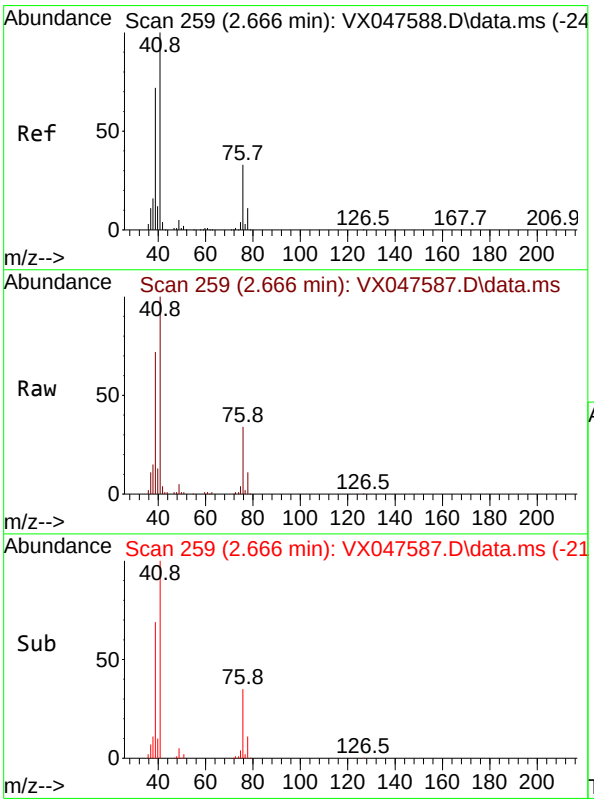
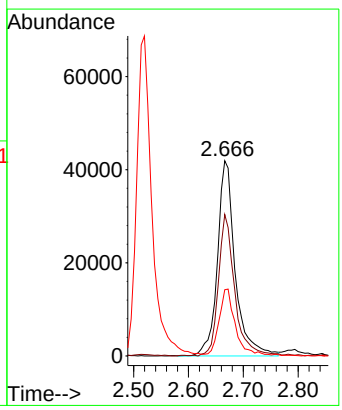
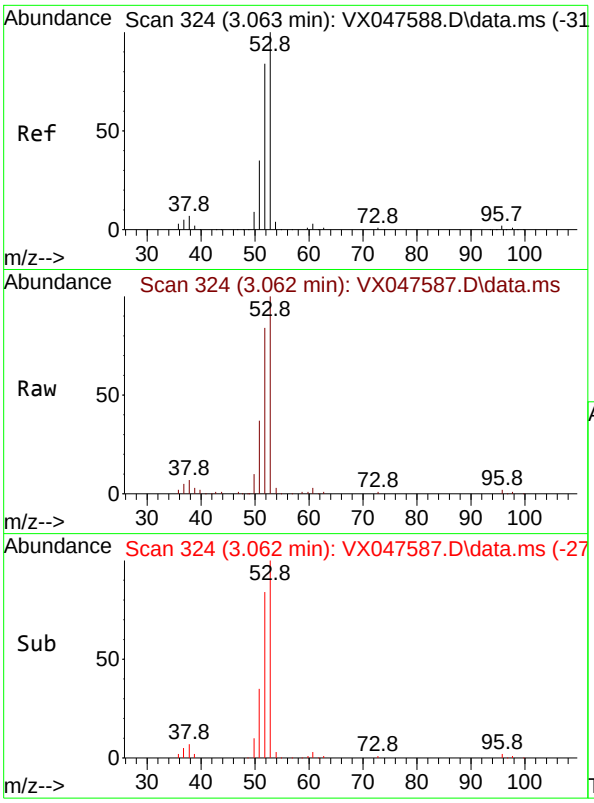


#14
Allyl chloride
Concen: 20.379 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 94710

Ion	Ratio	Lower	Upper
41	100		
39	65.5	54.7	82.1
76	30.3	25.7	38.5

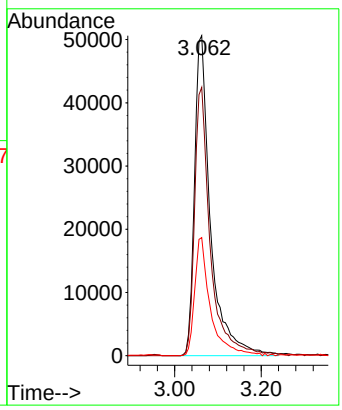




#15
Acrylonitrile
Concen: 104.554 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 53 Resp: 13014

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.2	29.5	44.3



Instrument :
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ClientSampleId :
VSTDICC020

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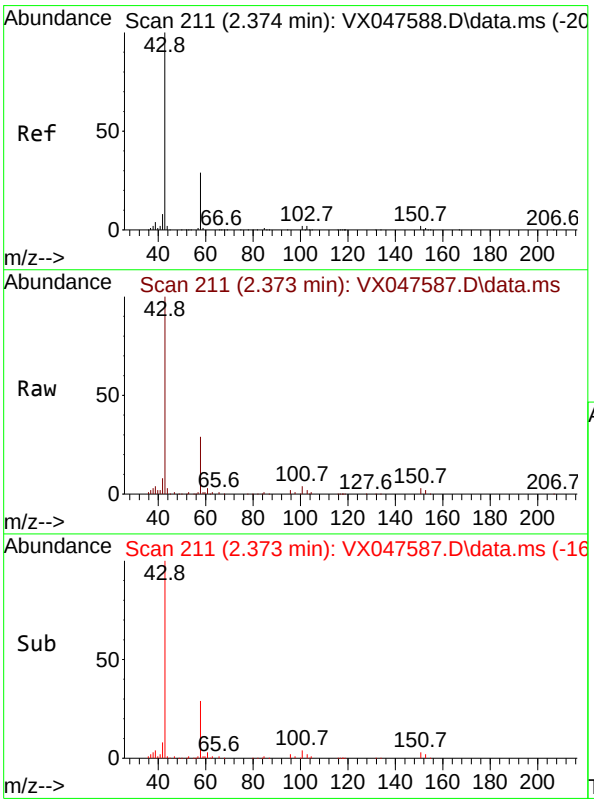
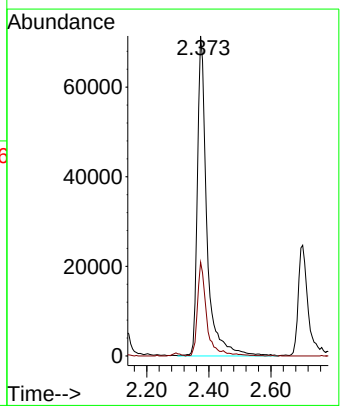
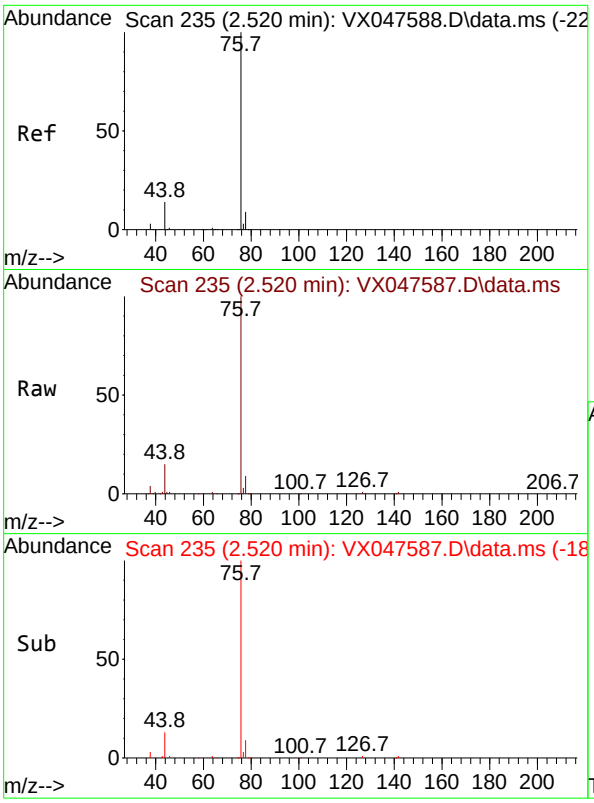


#16
Acetone
Concen: 115.507 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 151538

Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.4	35.0

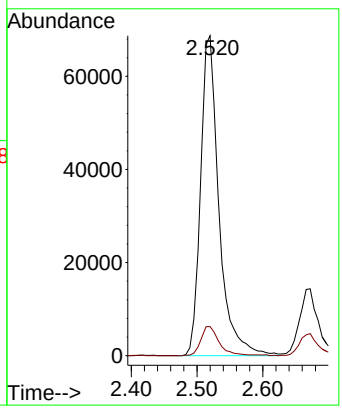




#17
Carbon Disulfide
Concen: 21.620 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 76 Resp: 13329

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.8	10.2



Instrument :
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ClientSampleId :
VSTDICC020

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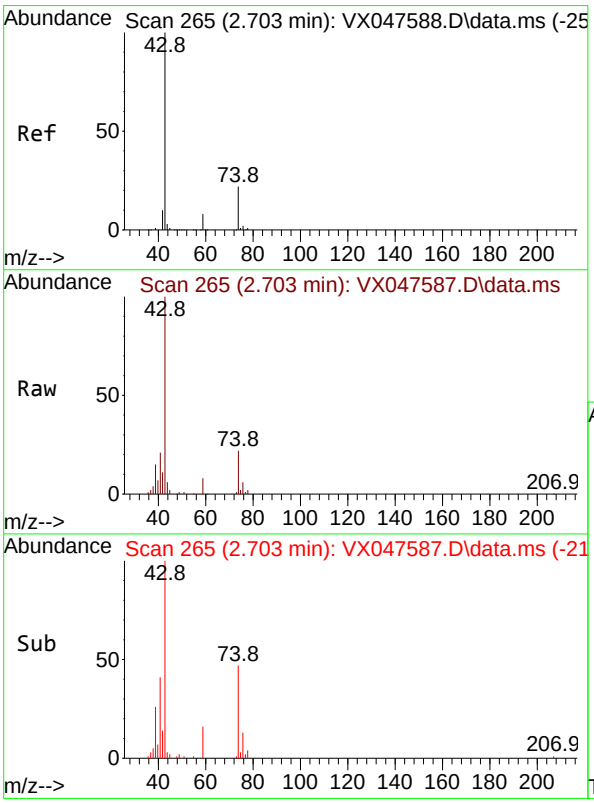
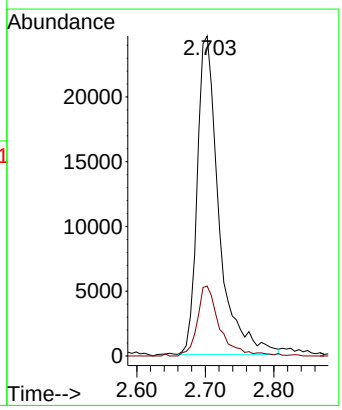
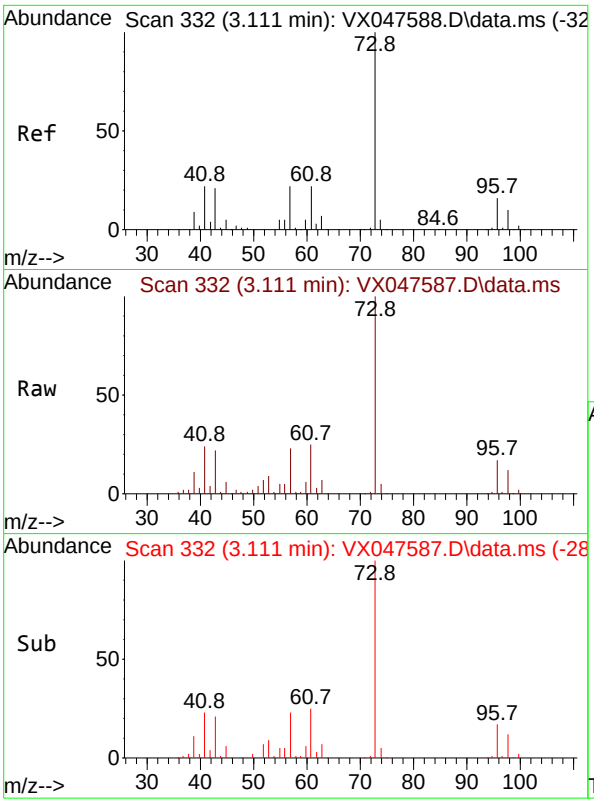


#18
Methyl Acetate
Concen: 18.536 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 54120

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

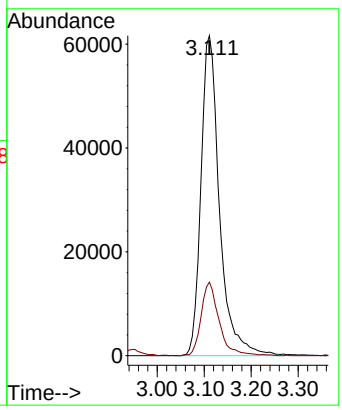




#19
Methyl tert-butyl Ether
Concen: 20.486 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 73 Resp: 16842

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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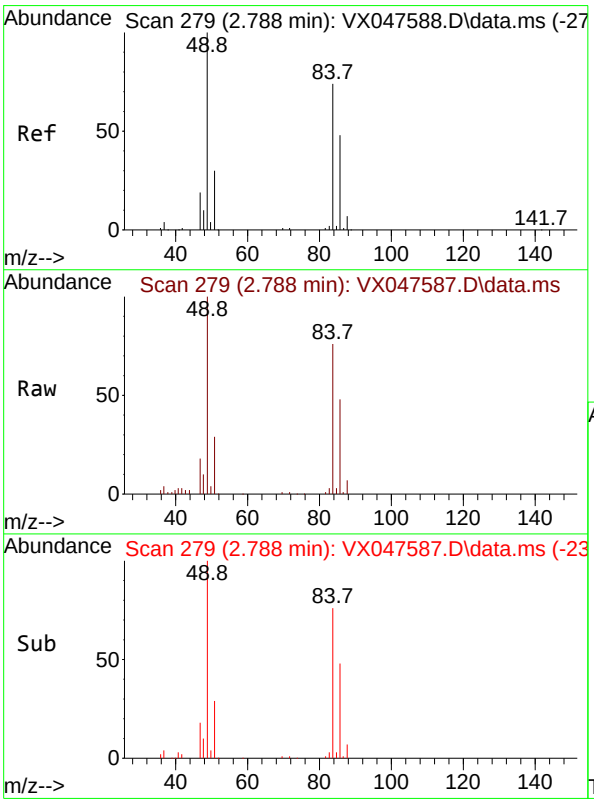
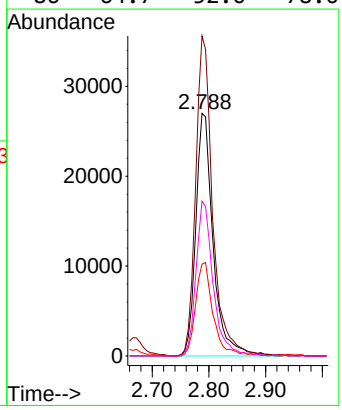
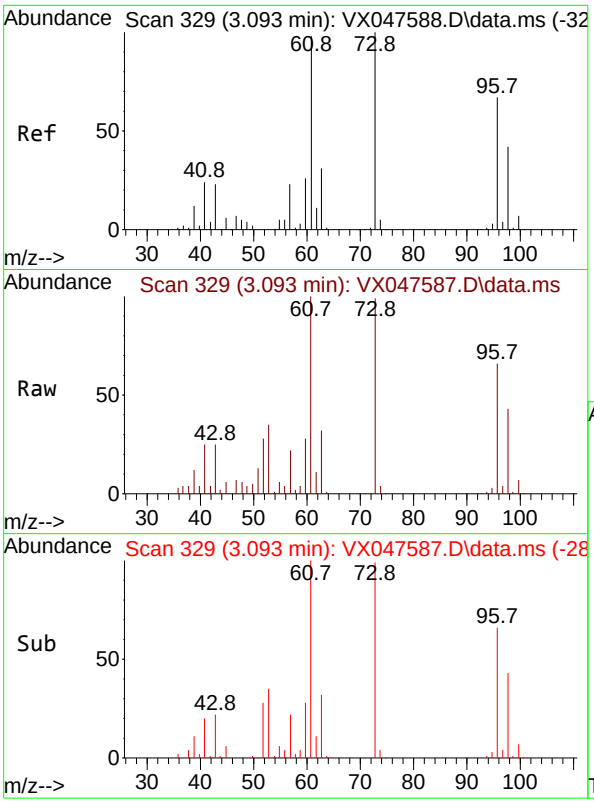


#20
Methylene Chloride
Concen: 20.581 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 84 Resp: 57153

Ion	Ratio	Lower	Upper
84	100		
49	131.7	108.6	162.8
51	37.9	32.6	48.8
86	64.7	52.0	78.0

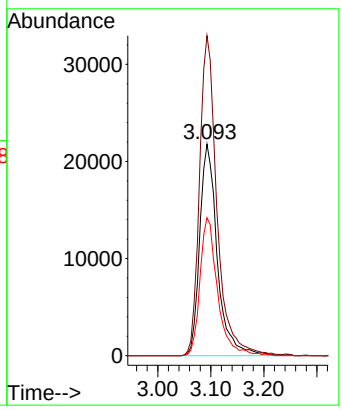




#21
trans-1,2-Dichloroethene
Concen: 20.791 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 5041

Ion	Ratio	Lower	Upper
96	100		
61	151.3	116.2	174.2
98	67.2	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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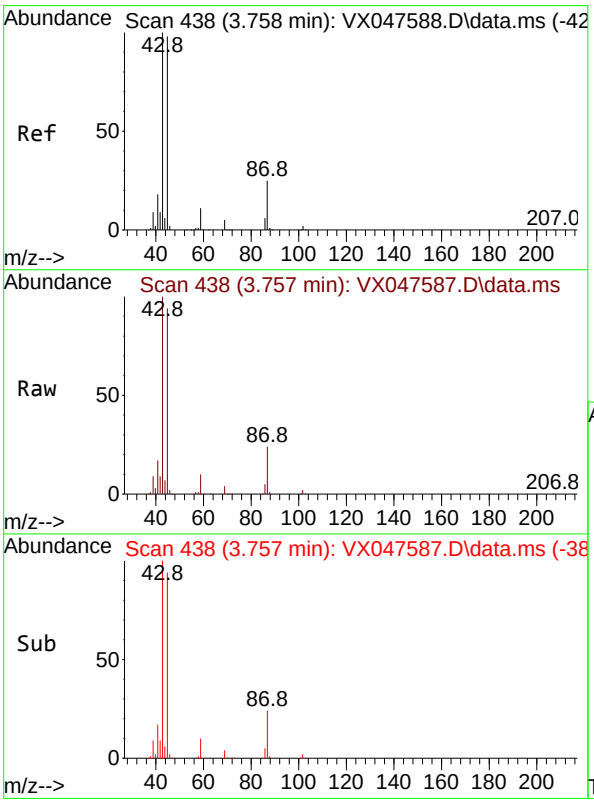
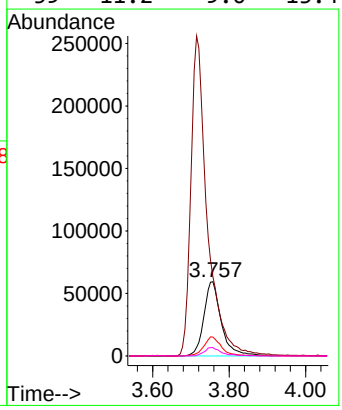
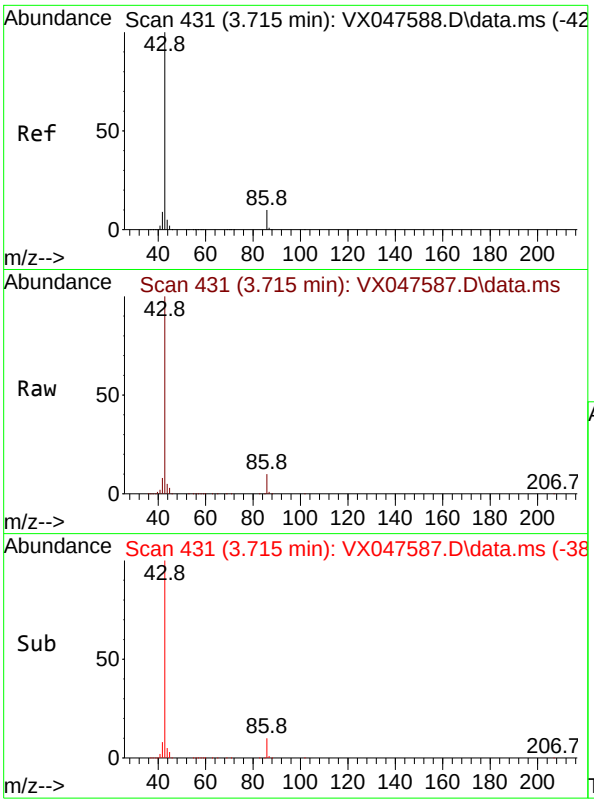


#22
Diisopropyl ether
Concen: 20.940 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 45 Resp: 188598

Ion	Ratio	Lower	Upper
45	100		
43	106.1	81.0	121.4
87	25.5	20.3	30.5
59	11.2	9.0	13.4





#23
Vinyl Acetate
Concen: 106.218 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 76567

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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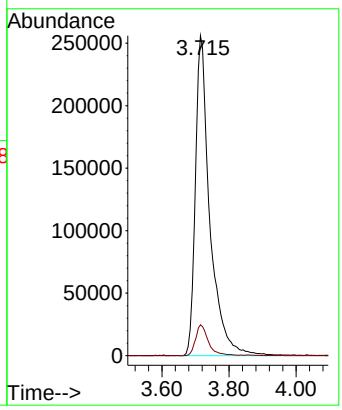
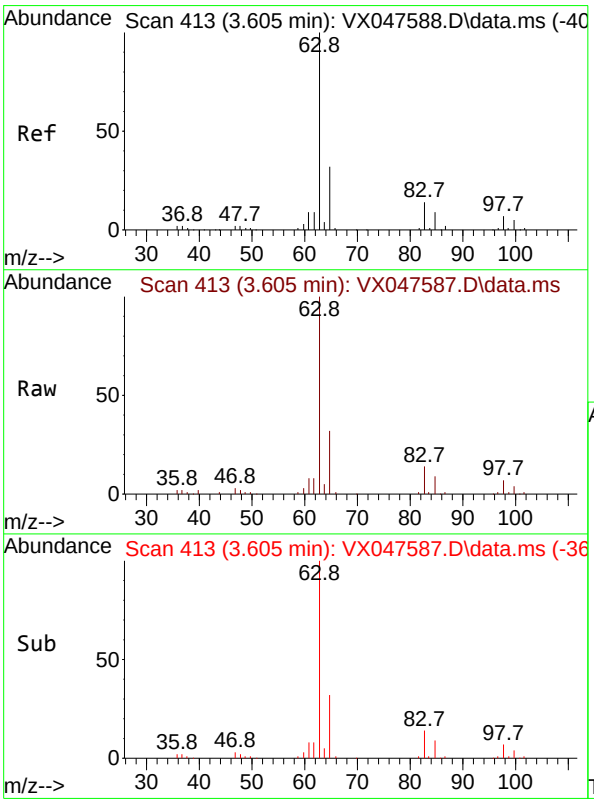
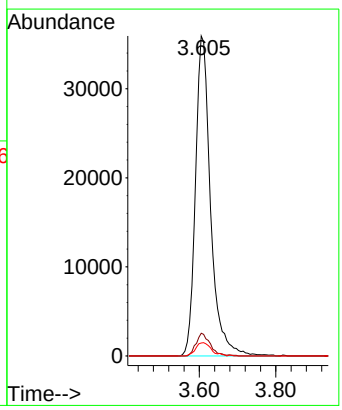


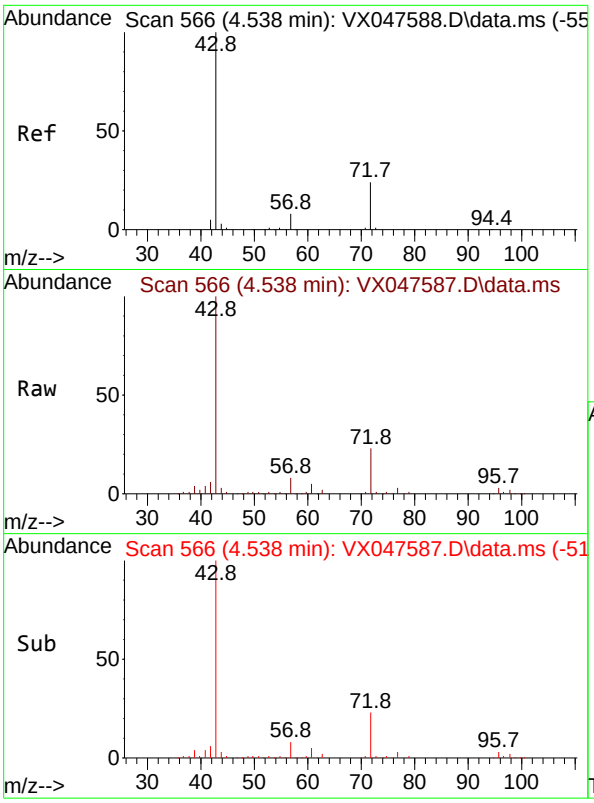


#24
1,1-Dichloroethane
Concen: 20.578 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 98509

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.1	2.3	6.9

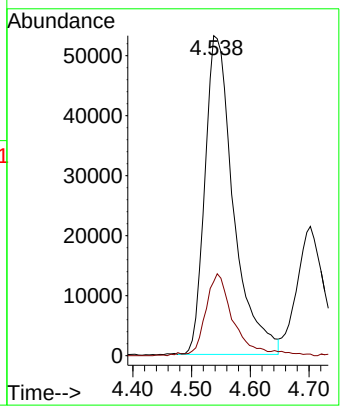




#25
2-Butanone
Concen: 109.679 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 17948

Ion	Ratio	Lower	Upper
43	100		
72	22.3	20.1	30.1



Instrument :
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ClientSampleId :
VSTDICC020

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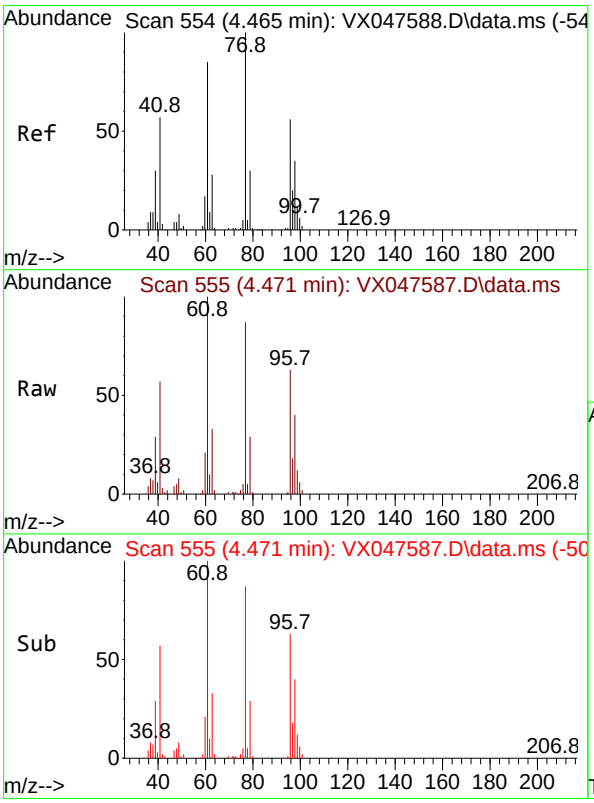
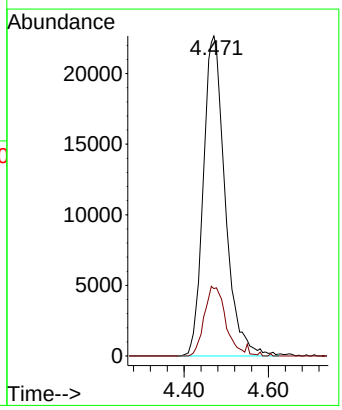
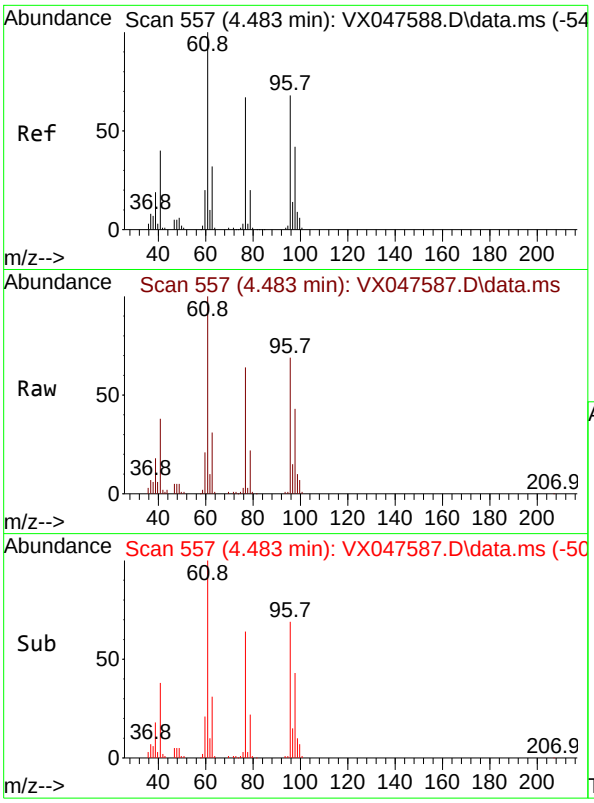


#26
2,2-Dichloropropane
Concen: 20.459 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 77 Resp: 81413

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.9	32.7

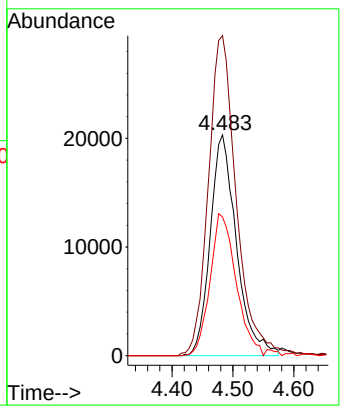




#27
cis-1,2-Dichloroethene
Concen: 20.497 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 6086

Ion	Ratio	Lower	Upper
96	100		
61	154.8	0.0	303.2
98	63.7	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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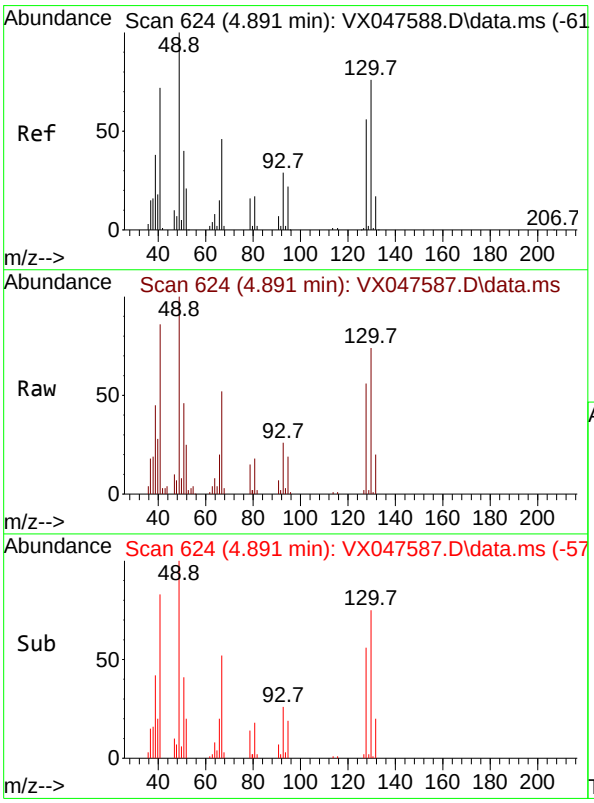
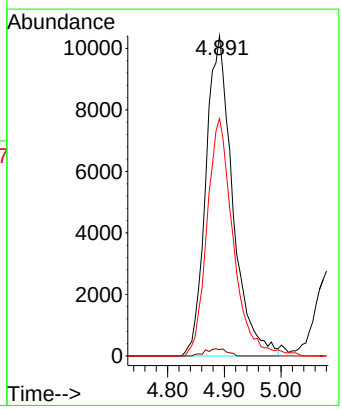
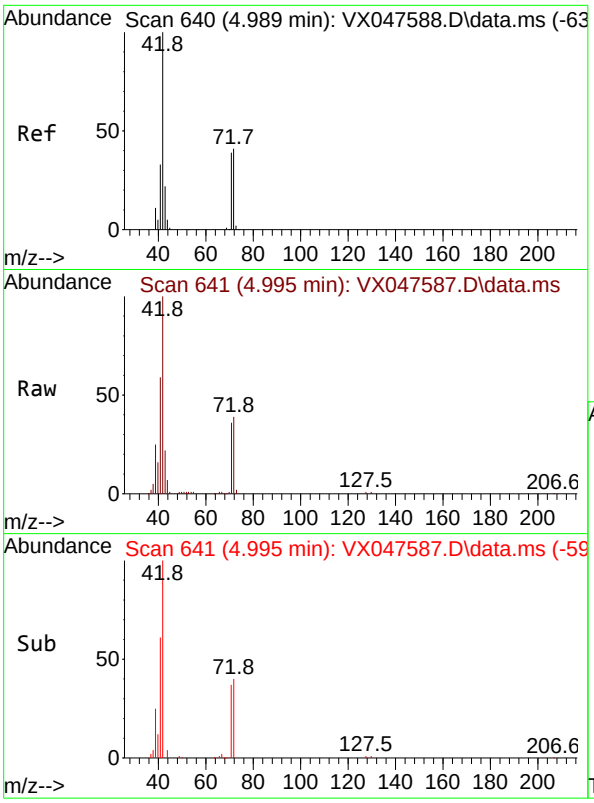


#28
Bromochloromethane
Concen: 16.309 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 49 Resp: 34085

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.7	57.8	86.8





#29
Tetrahydrofuran
Concen: 104.560 ug/l
RT: 4.995 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 42 Resp: 10293

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	37.8	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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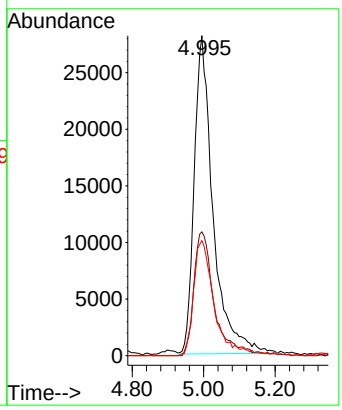
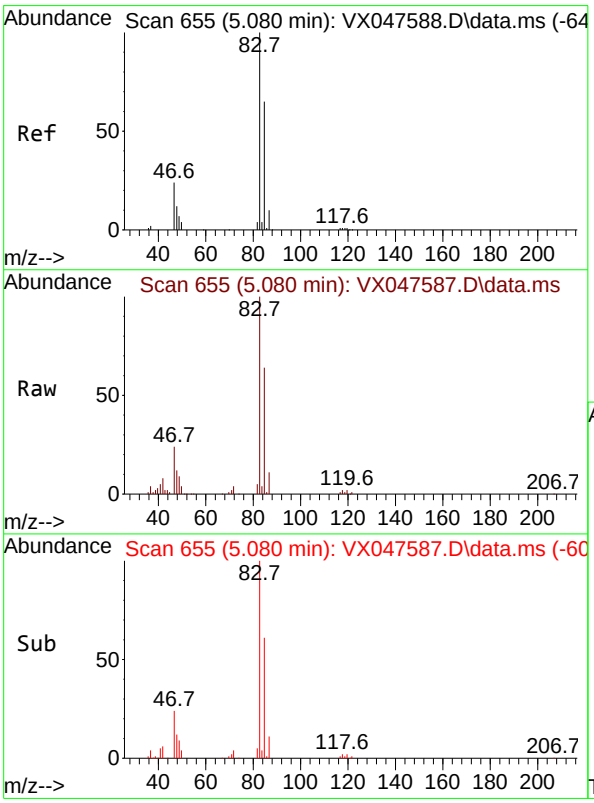
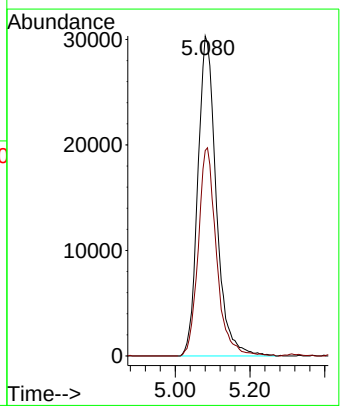


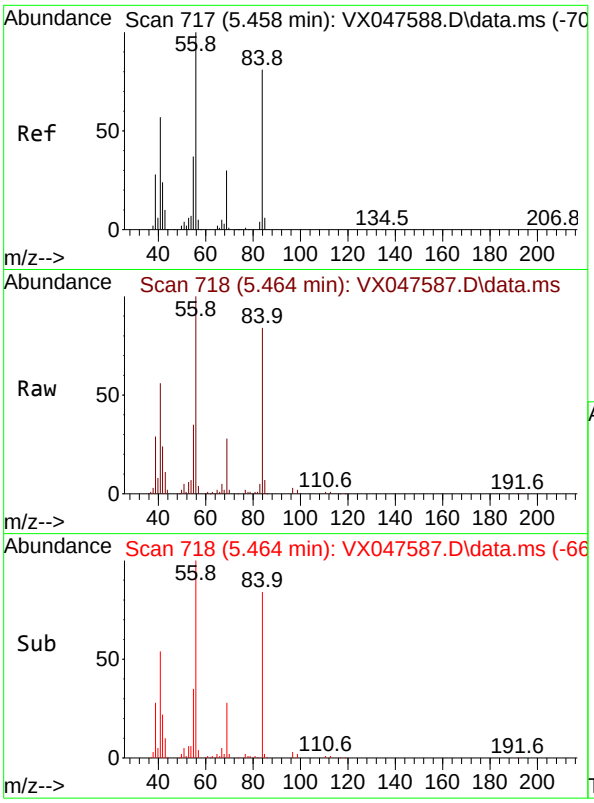


#30
Chloroform
Concen: 21.413 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 103586

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6

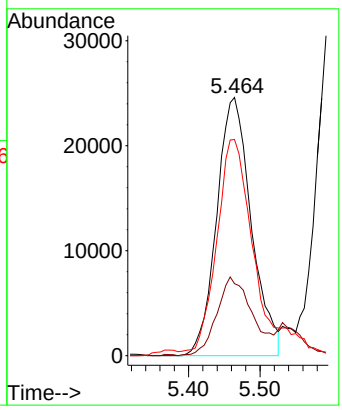




#31
Cyclohexane
Concen: 20.759 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 56 Resp: 8277

Ion	Ratio	Lower	Upper
56	100		
69	27.9	23.8	35.8
84	82.2	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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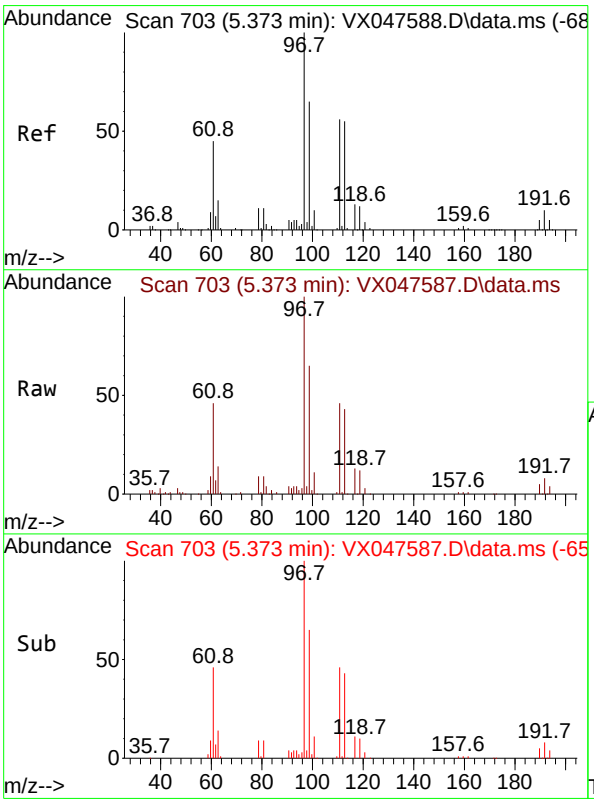
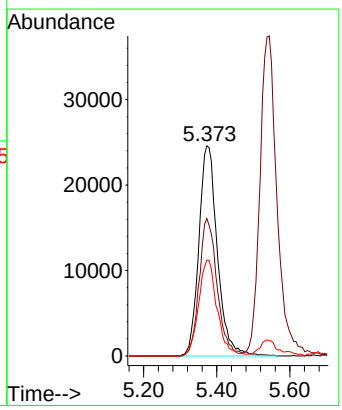
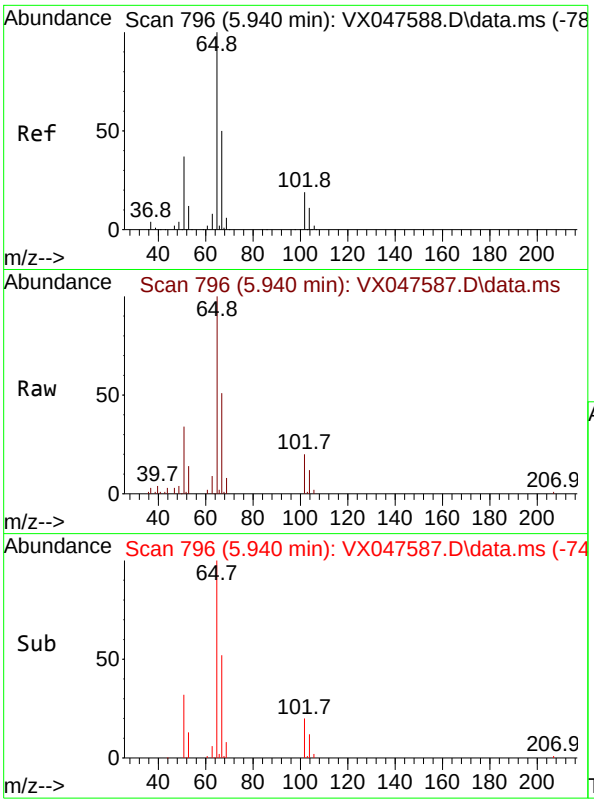


#32
1,1,1-Trichloroethane
Concen: 21.081 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 97 Resp: 86500

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	45.5	35.8	53.8

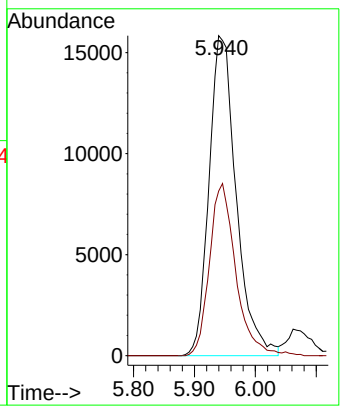




#33
1,2-Dichloroethane-d4
Concen: 16.264 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 65 Resp: 4907

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0



Instrument :
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ClientSampleId :
VSTDICC020

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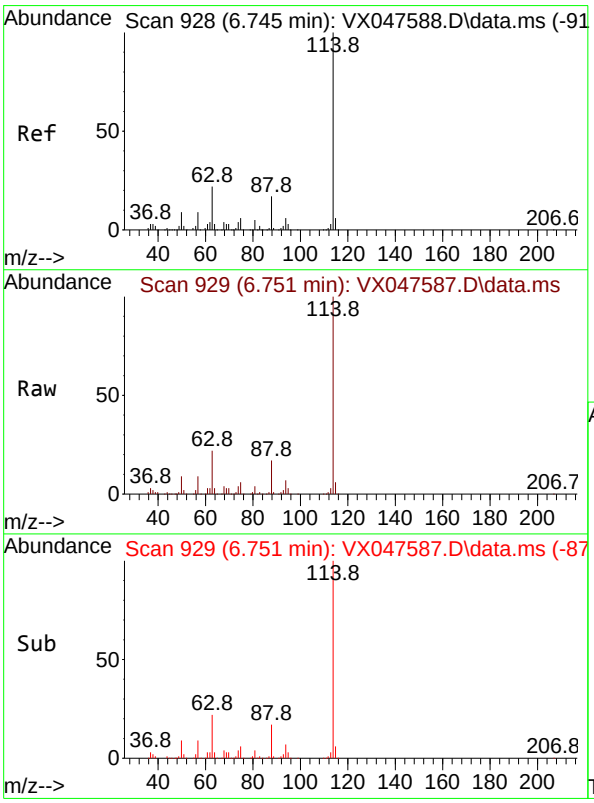
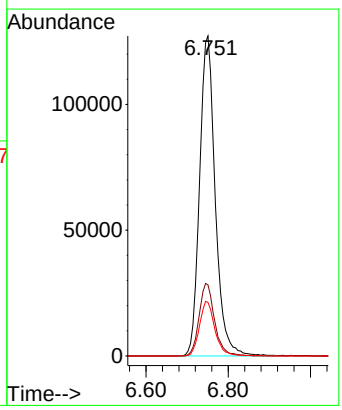
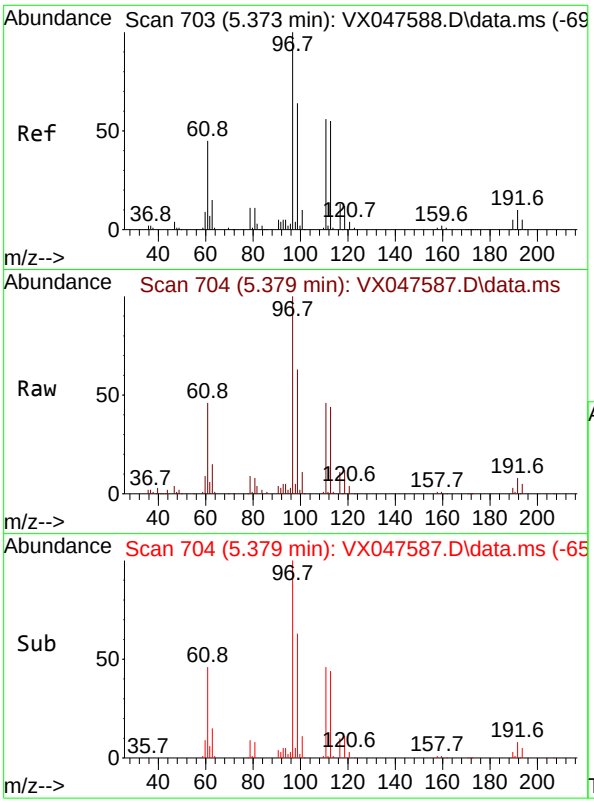


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:114 Resp: 336287

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2

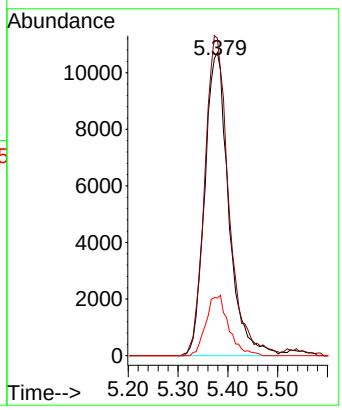




#35
Dibromofluoromethane
Concen: 15.868 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:113 Resp: 3578

Ion	Ratio	Lower	Upper
113	100		
111	105.7	80.9	121.3
192	18.8	14.2	21.4



Instrument :
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ClientSampleId :
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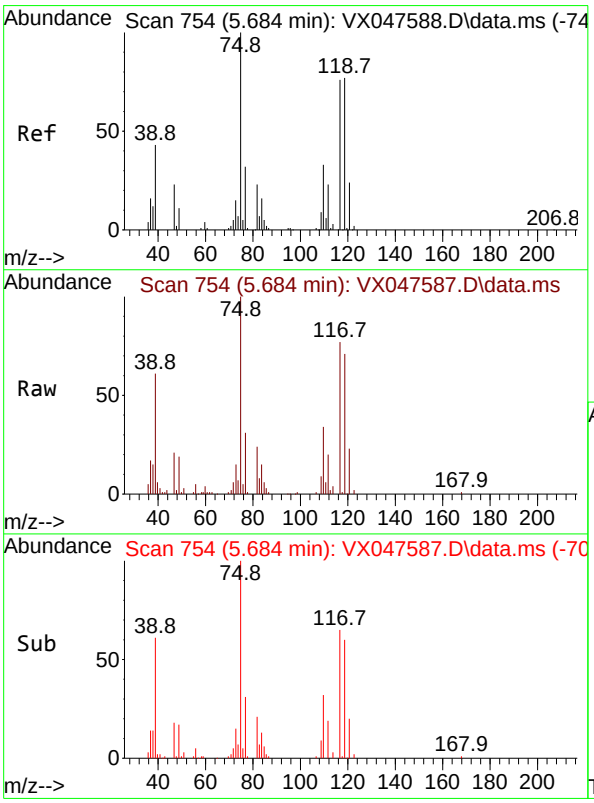
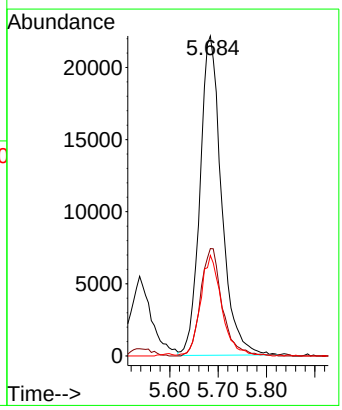
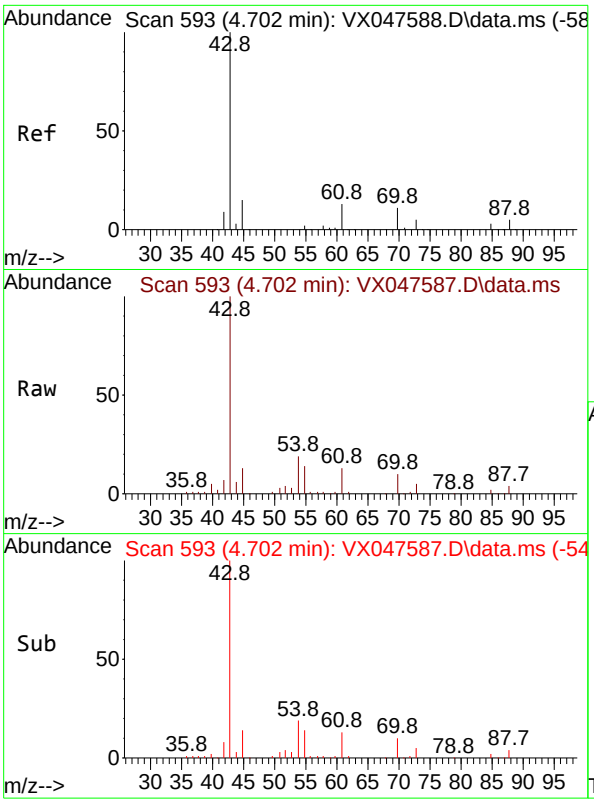


#36
1,1-Dichloropropene
Concen: 20.754 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 68395

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.2	24.3	36.5

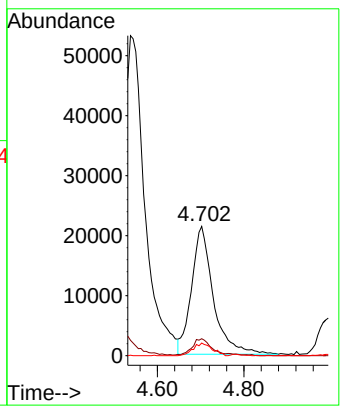




#37
Ethyl Acetate
Concen: 21.113 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 7449

Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	8.5	7.9	11.9



Instrument :
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ClientSampleId :
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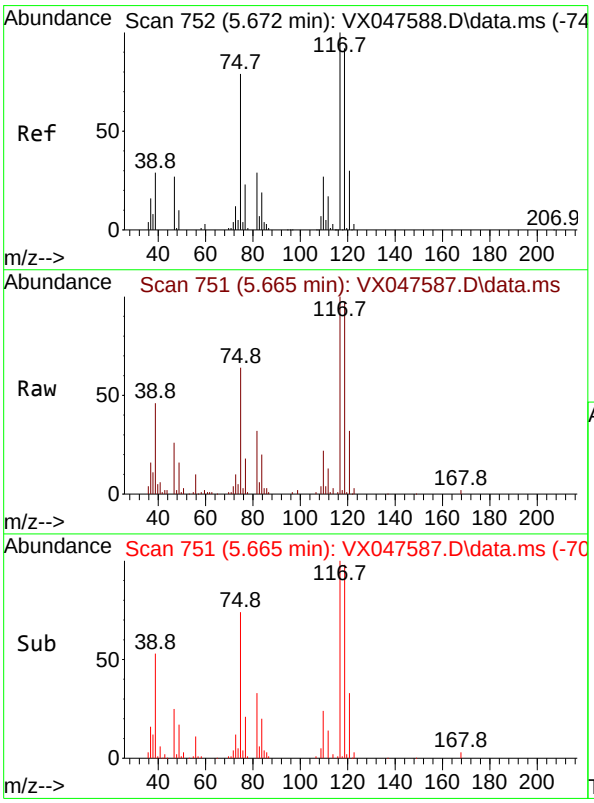
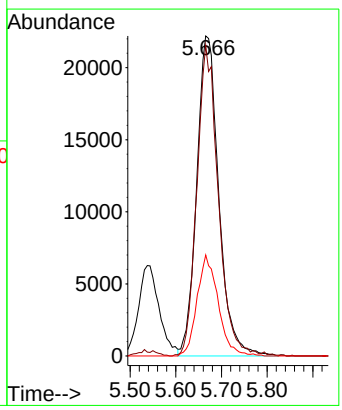
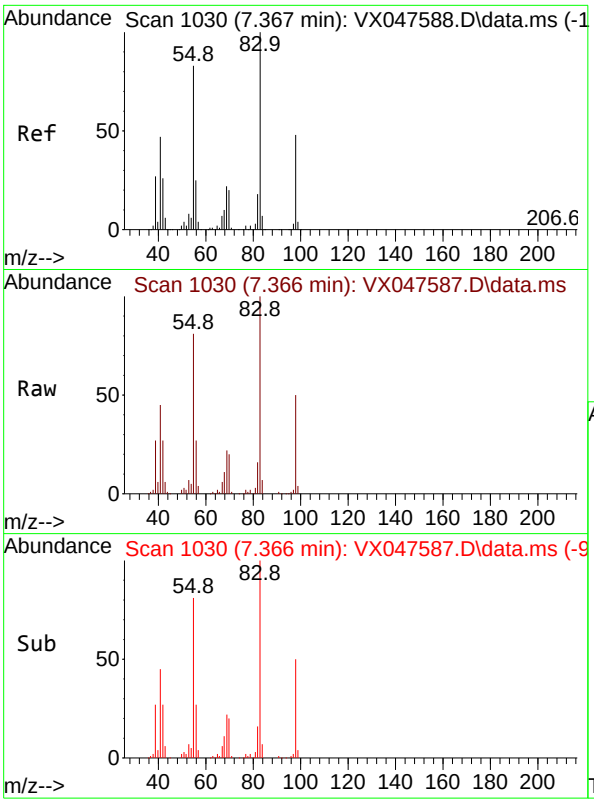


#38
Carbon Tetrachloride
Concen: 20.844 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 74636

Ion	Ratio	Lower	Upper
117	100		
119	96.9	73.4	110.2
121	31.6	23.8	35.6





#39
Methylcyclohexane
Concen: 21.251 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 7949

Ion	Ratio	Lower	Upper
83	100		
55	81.2	66.4	99.6
98	49.6	38.1	57.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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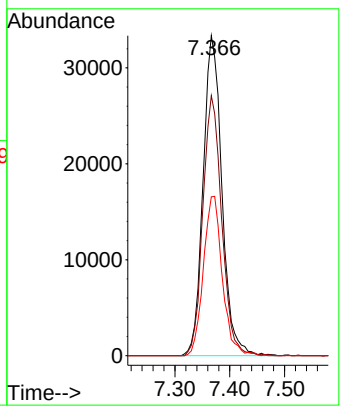
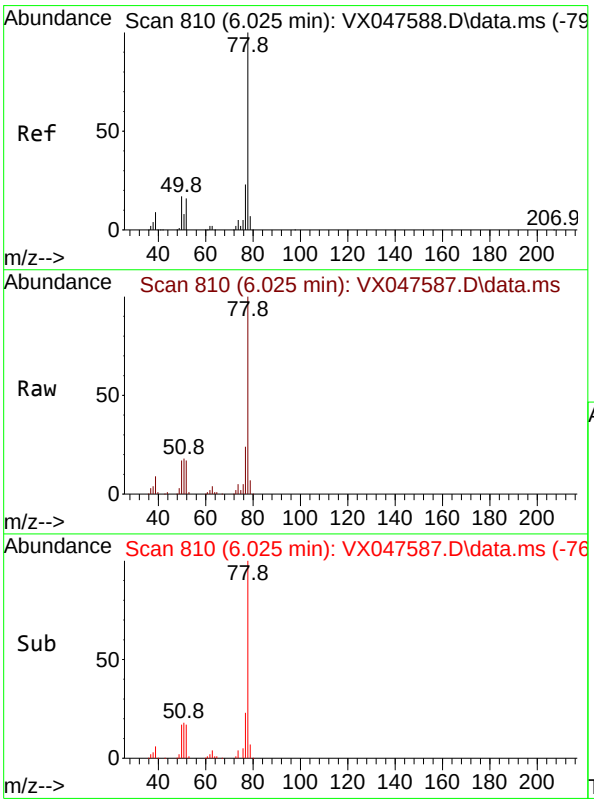
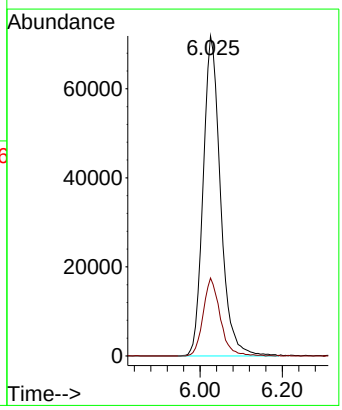


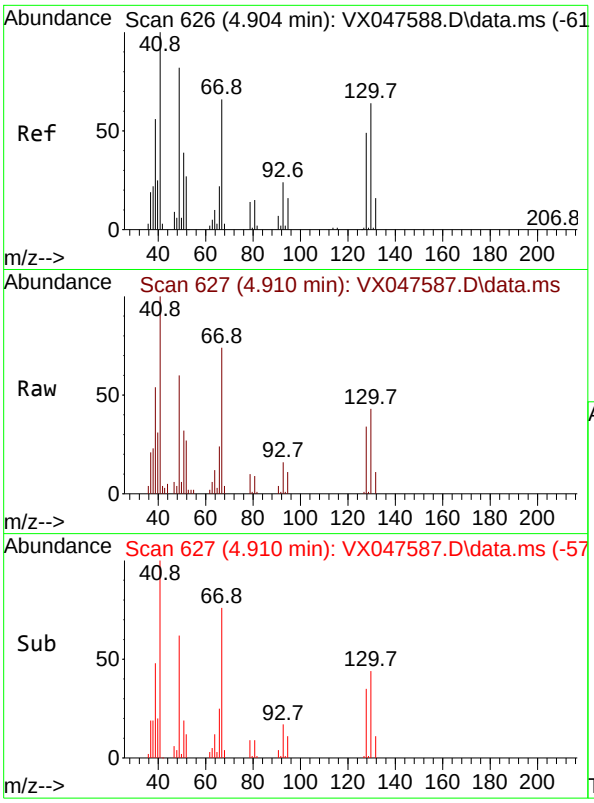


#40
Benzene
Concen: 21.051 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 78 Resp: 210711

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2

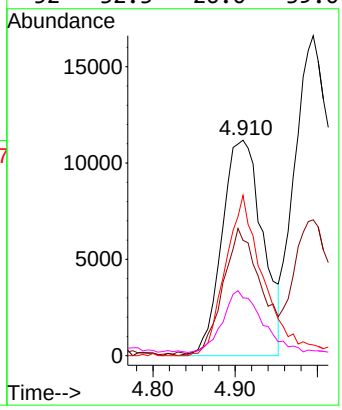




#41
Methacrylonitrile
Concen: 21.148 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 3852

Ion	Ratio	Lower	Upper
41	100		
39	53.8	43.3	64.9
67	72.5	58.6	87.8
52	32.3	26.0	39.0



Instrument :
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ClientSampleId :
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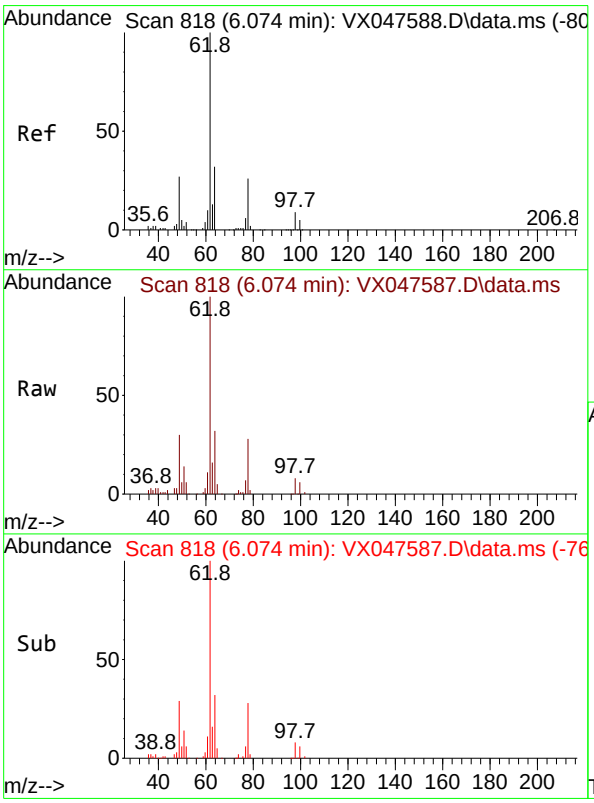
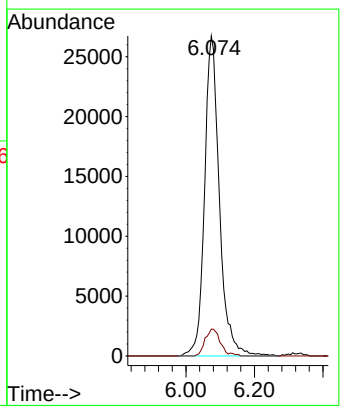
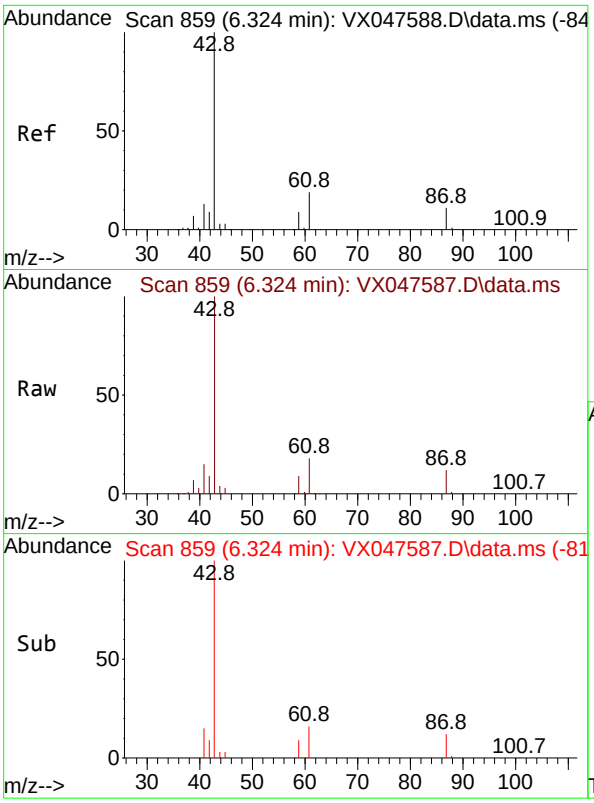


#42
1,2-Dichloroethane
Concen: 21.175 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 80646

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

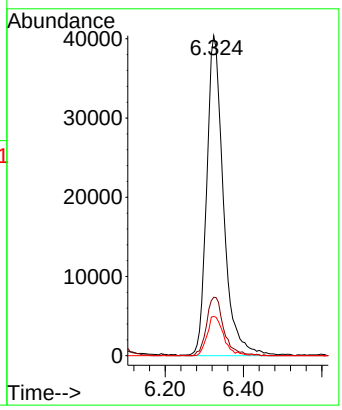




#43
Isopropyl Acetate
Concen: 20.670 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 11962

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.2	22.8
87	12.1	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
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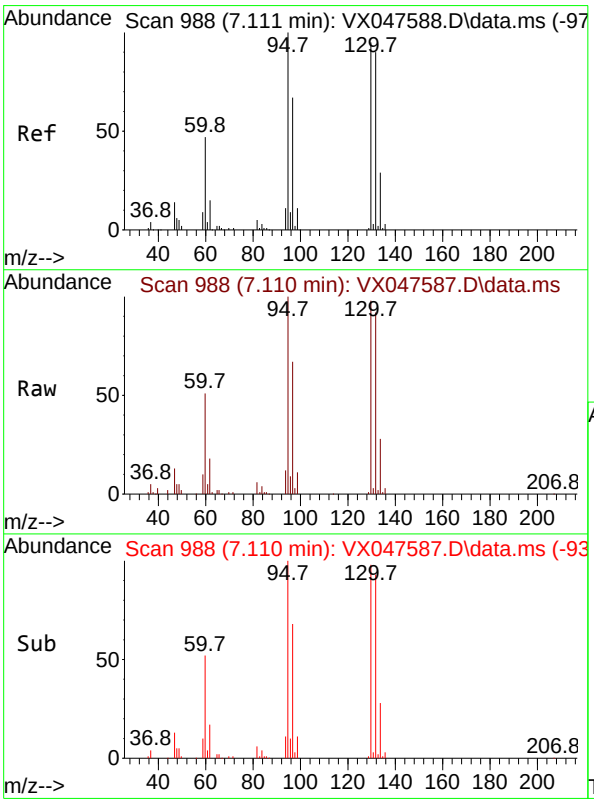
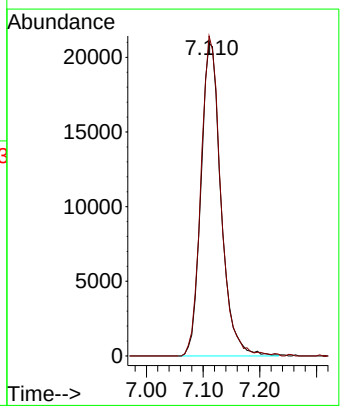
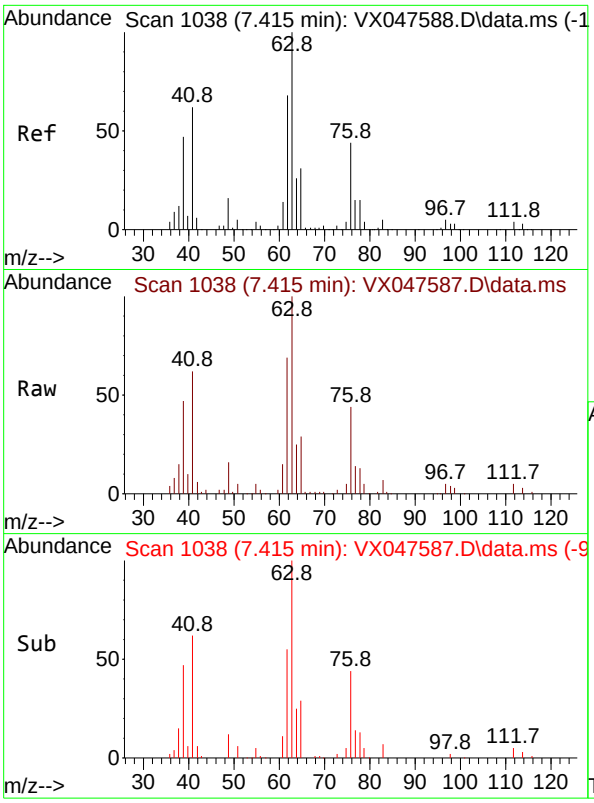


#44
Trichloroethene
Concen: 21.228 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:130 Resp: 51369

Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	210.8

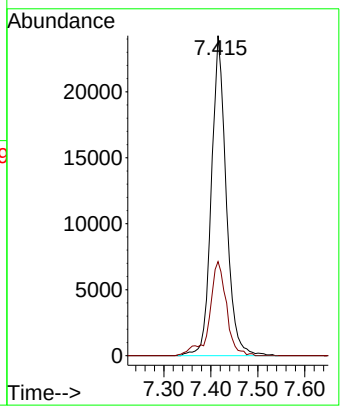




#45
1,2-Dichloropropane
Concen: 20.697 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 5304

Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.7	37.1



Instrument :
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ClientSampleId :
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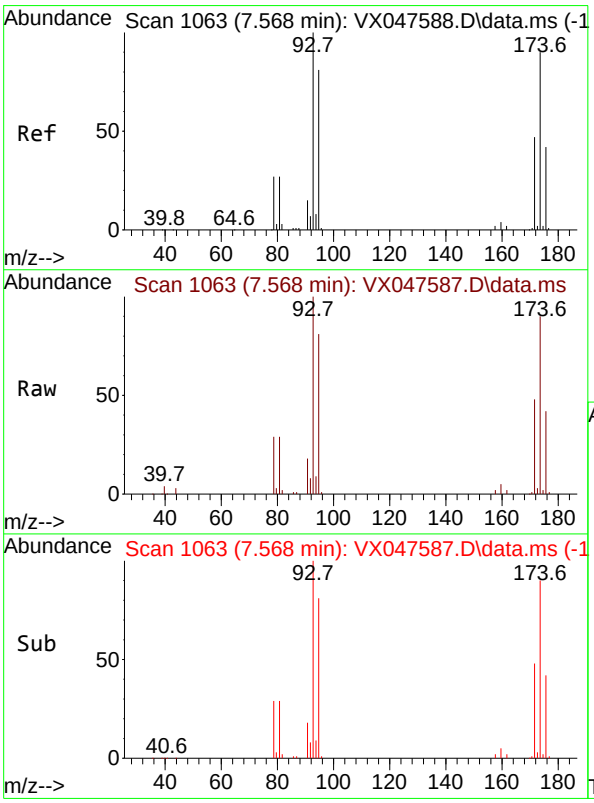
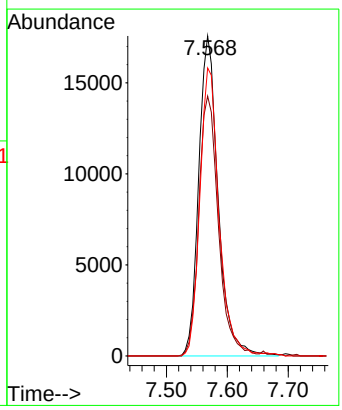
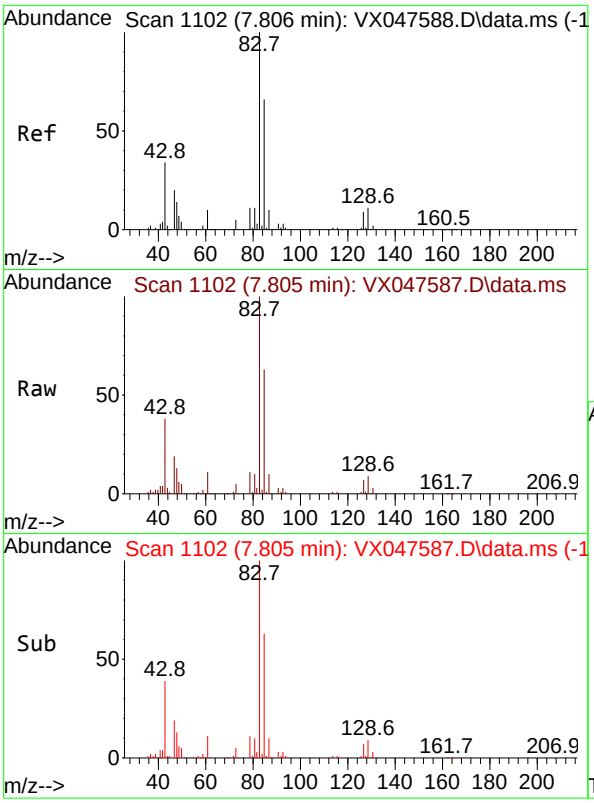


#46
Dibromomethane
Concen: 20.862 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 93 Resp: 38910

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.0	97.6
174	89.2	71.6	107.4

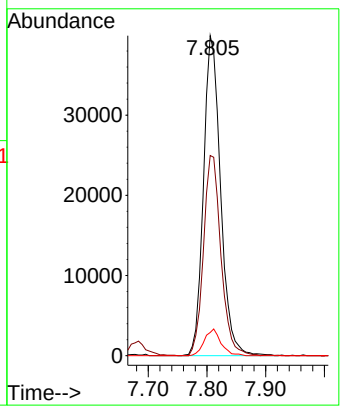




#47
Bromodichloromethane
Concen: 21.002 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 8083

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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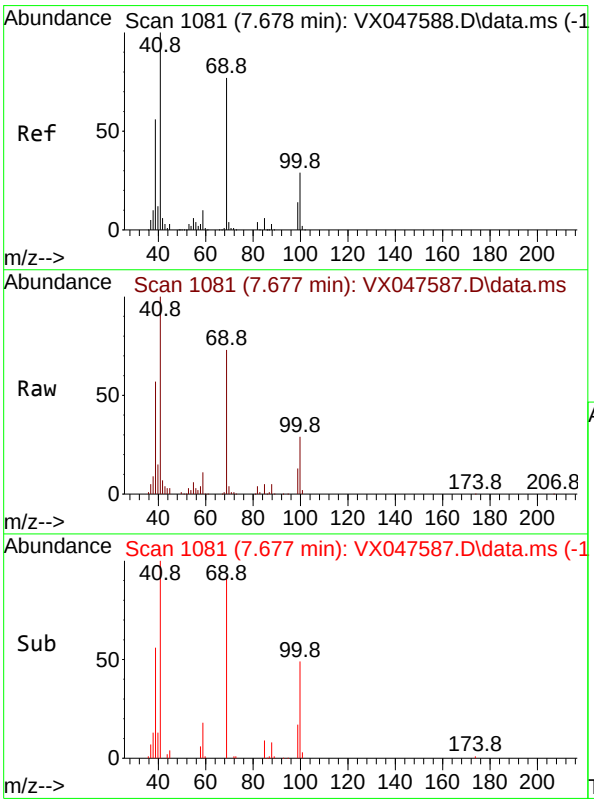
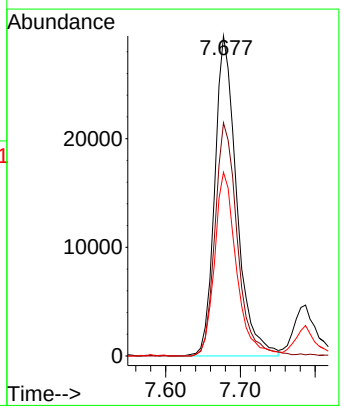
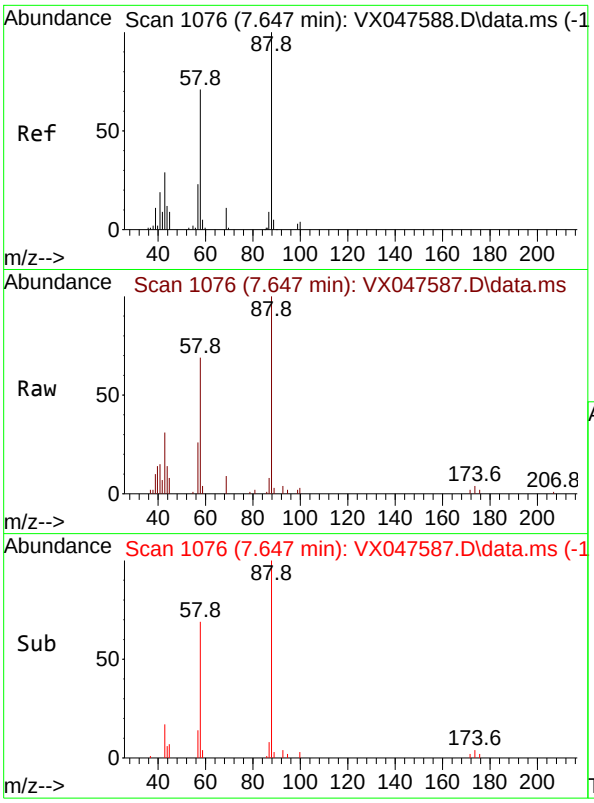


#48
Methyl methacrylate
Concen: 20.877 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 60182

Ion	Ratio	Lower	Upper
41	100		
69	74.2	61.4	92.2
39	57.2	45.8	68.6

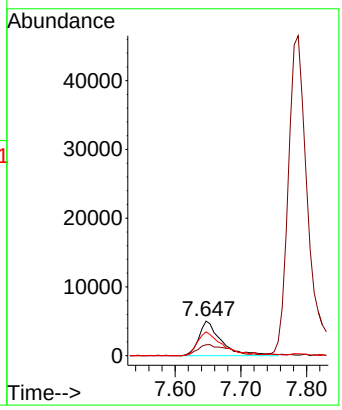




#49
1,4-Dioxane
Concen: 413.530 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 88 Resp: 1204

Ion	Ratio	Lower	Upper
88	100		
43	44.7	30.2	45.2
58	75.8	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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Reviewed By :John Carlone 09/17/2025
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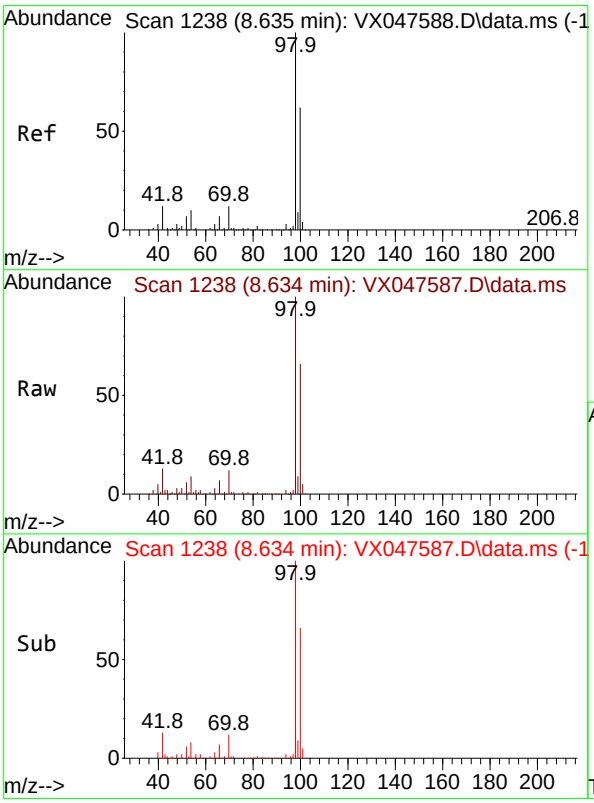
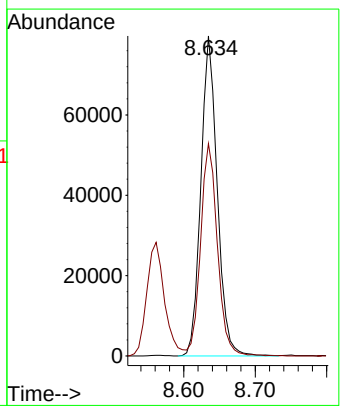
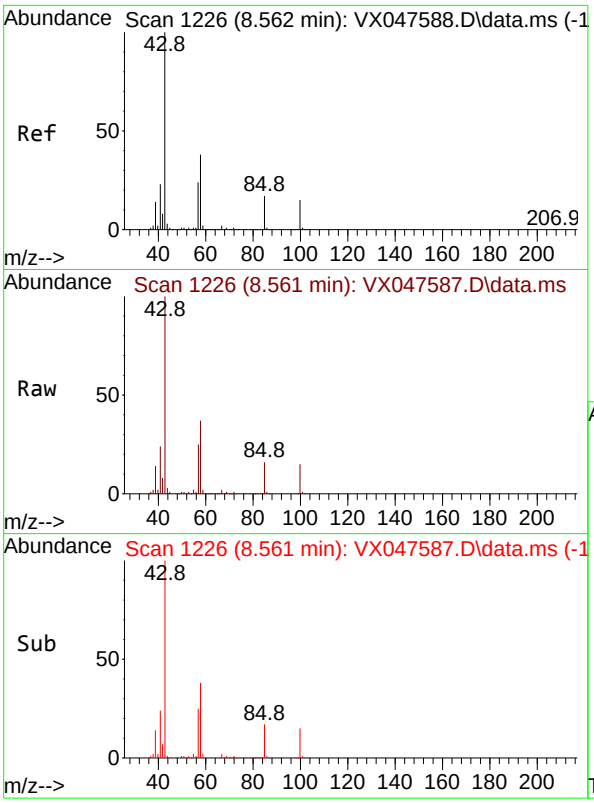


#50
Toluene-d8
Concen: 16.258 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 98 Resp: 126875

Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.0	79.4

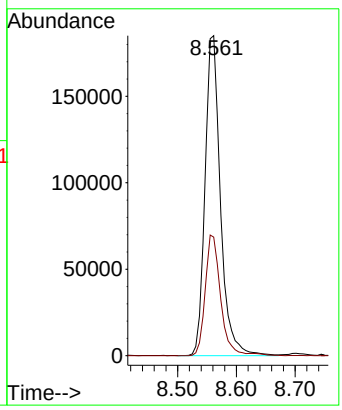




#51
4-Methyl-2-Pentanone
Concen: 105.456 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 33837

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5



Instrument :
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ClientSampleId :
VSTDICC020

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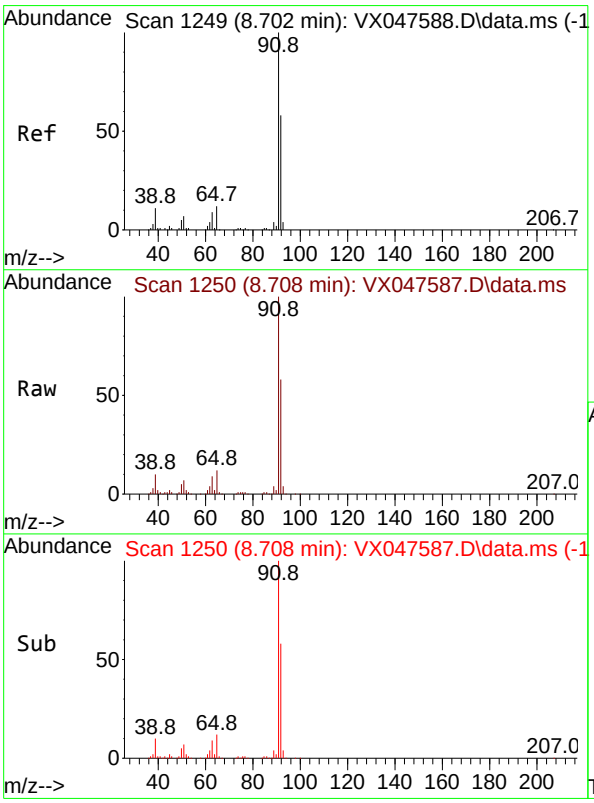
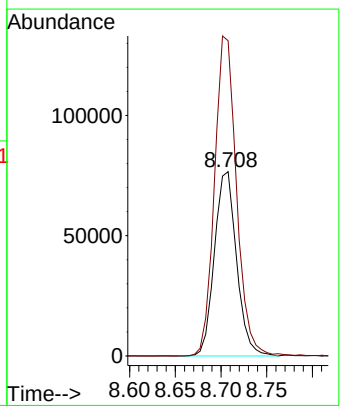
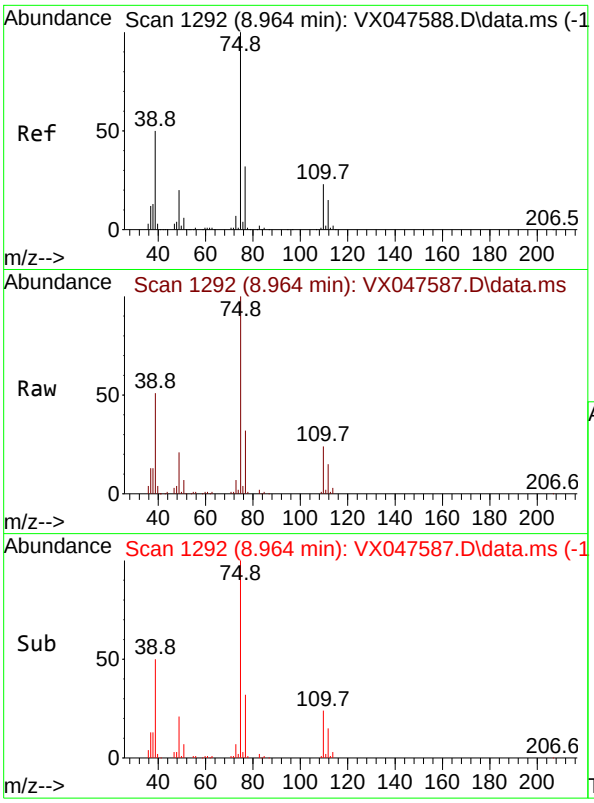


#52
Toluene
Concen: 20.950 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 92 Resp: 129193

Ion	Ratio	Lower	Upper
92	100		
91	173.2	137.1	205.7

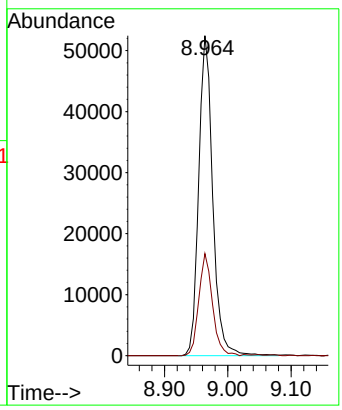




#53
t-1,3-Dichloropropene
Concen: 20.625 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 8097

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.2



Instrument :
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ClientSampleId :
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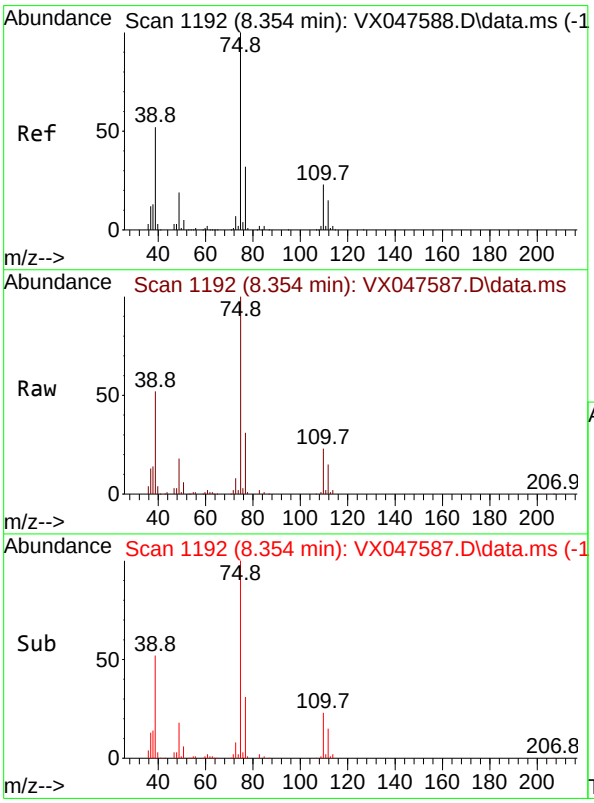
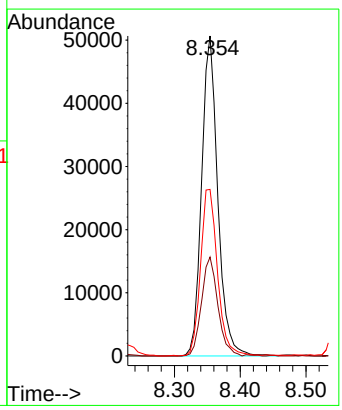
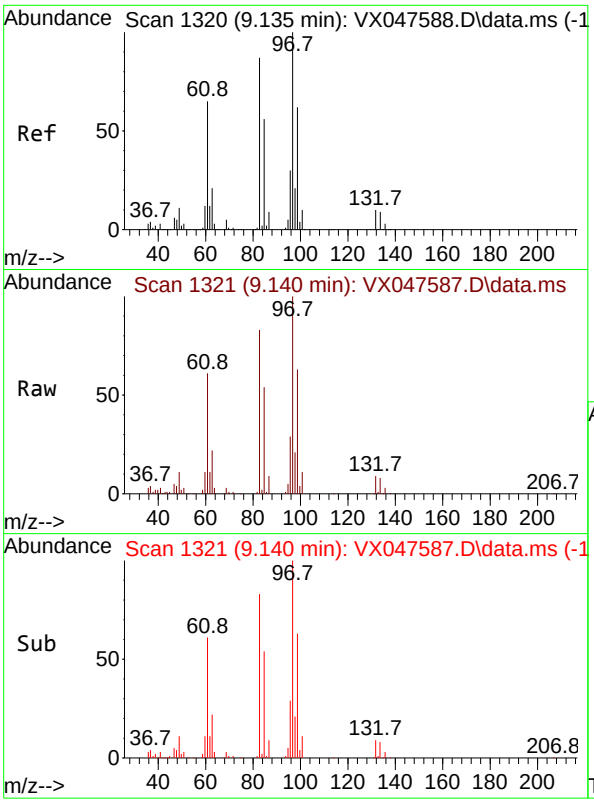


#54
cis-1,3-Dichloropropene
Concen: 20.650 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 86648

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.8	38.6
39	52.0	41.4	62.2

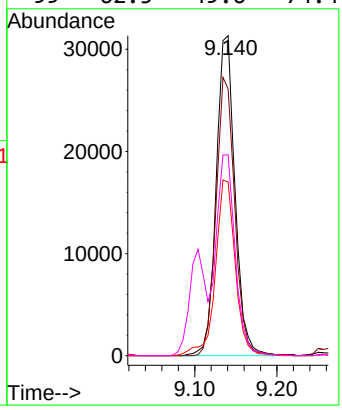




#55
1,1,2-Trichloroethane
Concen: 20.967 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 97 Resp: 4985

Ion	Ratio	Lower	Upper
97	100		
83	83.3	69.6	104.4
85	55.2	45.0	67.6
99	62.5	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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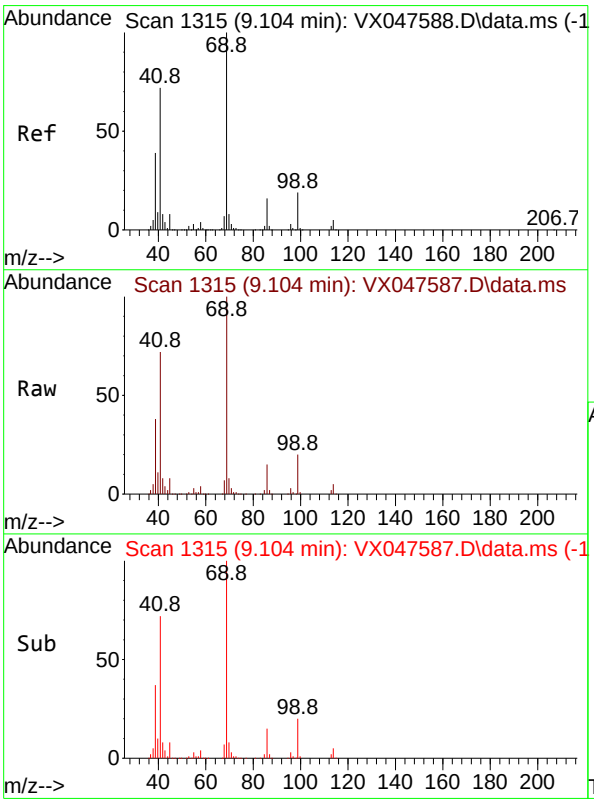
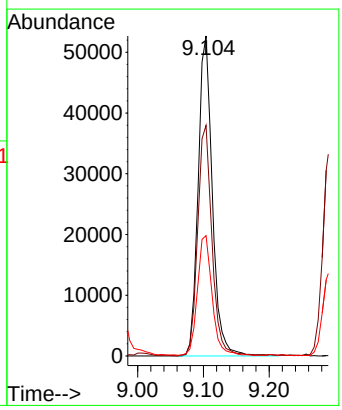
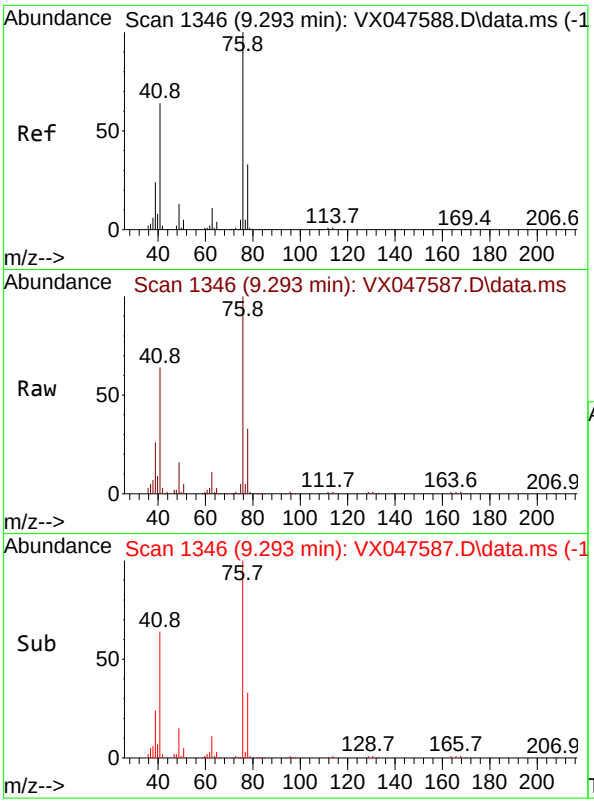


#56
Ethyl methacrylate
Concen: 21.158 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 69 Resp: 79011

Ion	Ratio	Lower	Upper
69	100		
41	72.6	58.6	87.8
39	38.6	31.5	47.3

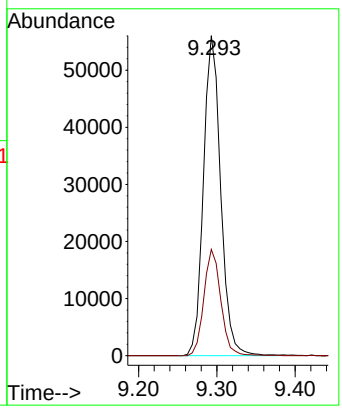




#57
1,3-Dichloropropane
Concen: 20.934 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 76 Resp: 8551

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
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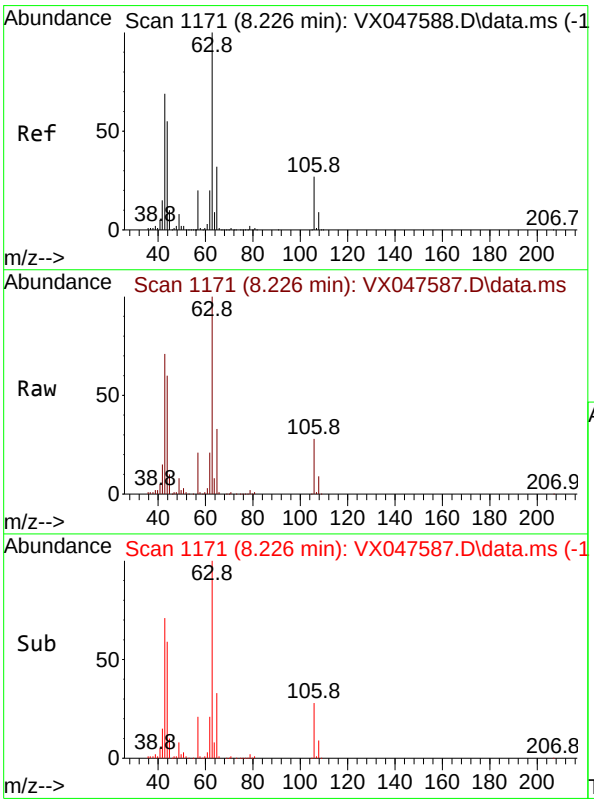
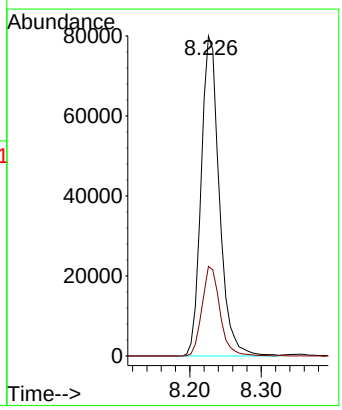
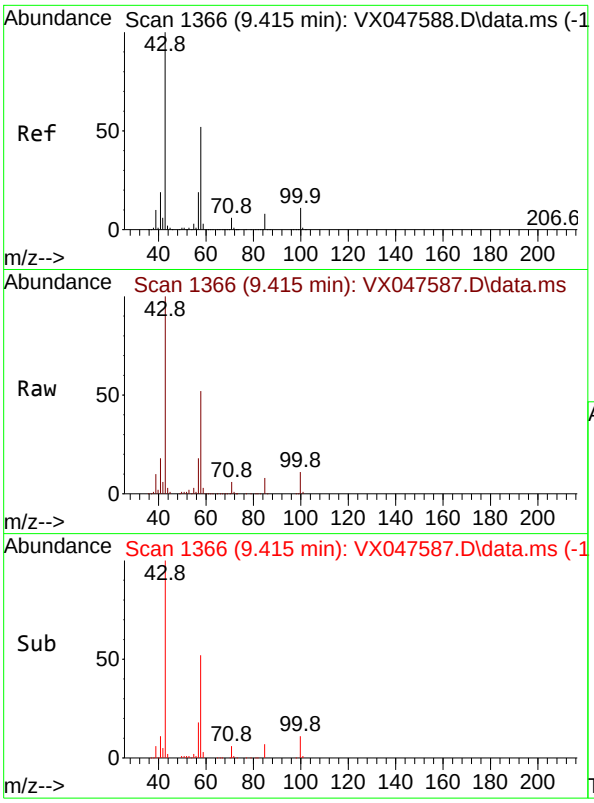


#58
2-Chloroethyl Vinyl ether
Concen: 86.617 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 141395

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9





#59
2-Hexanone
Concen: 108.488 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 25000

Ion	Ratio	Lower	Upper
43	100		
58	51.4	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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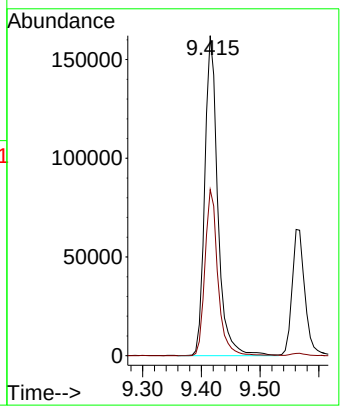
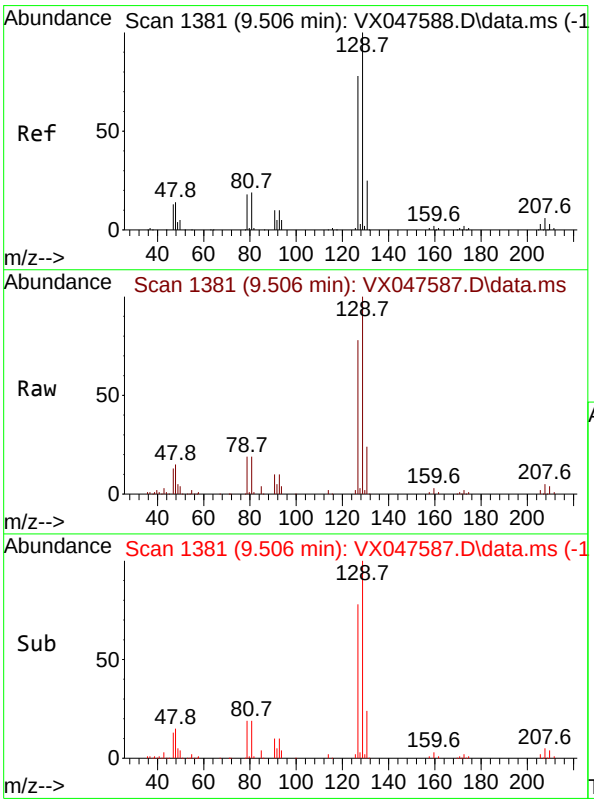
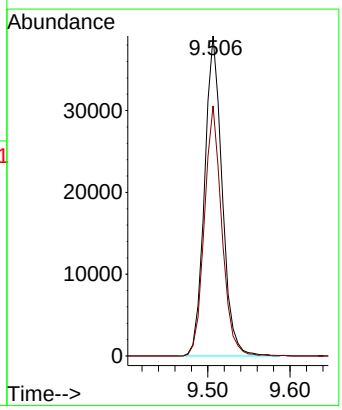


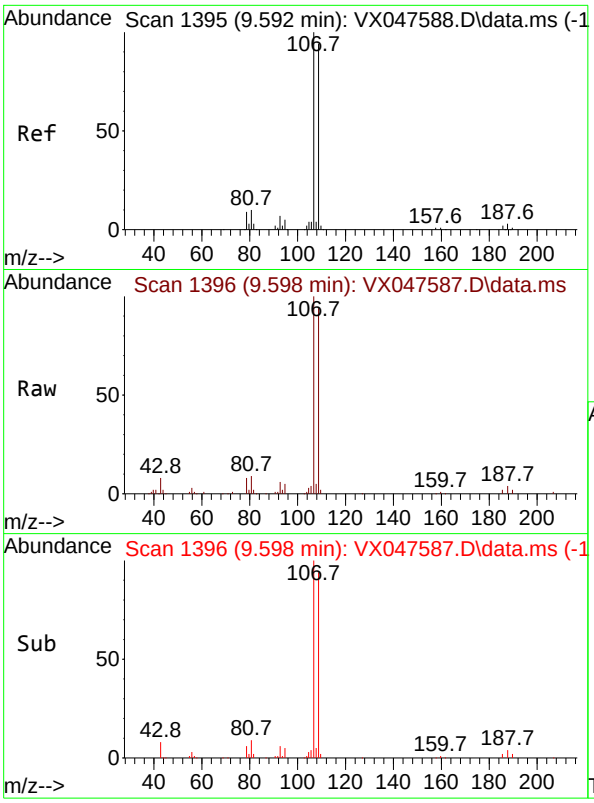


#60
Dibromochloromethane
Concen: 21.167 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:129 Resp: 57994

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2

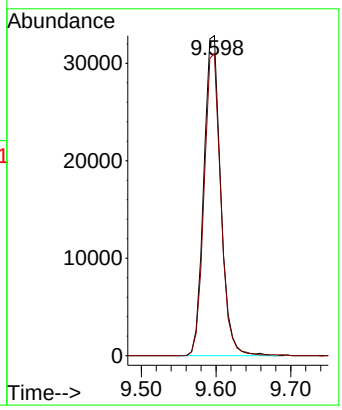




#61
1,2-Dibromoethane
Concen: 21.310 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:107 Resp: 5161

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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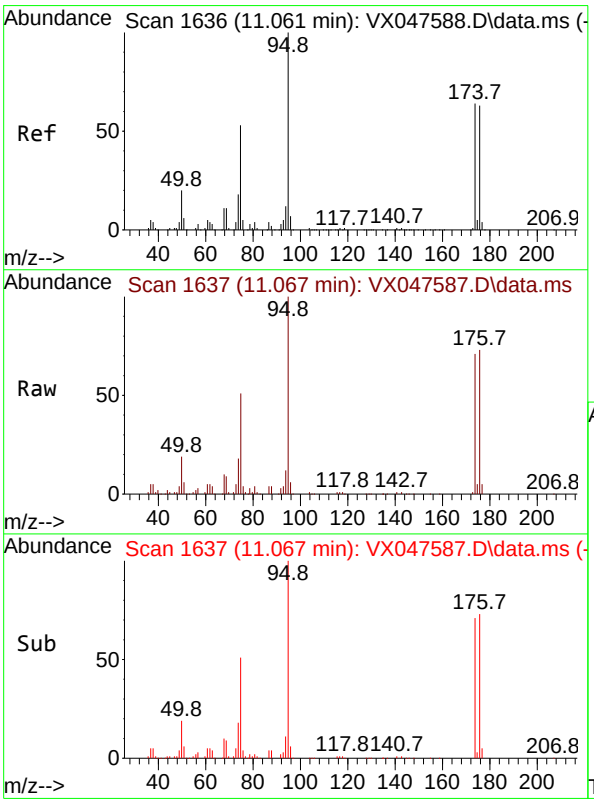
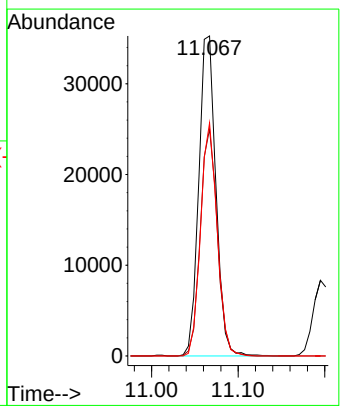
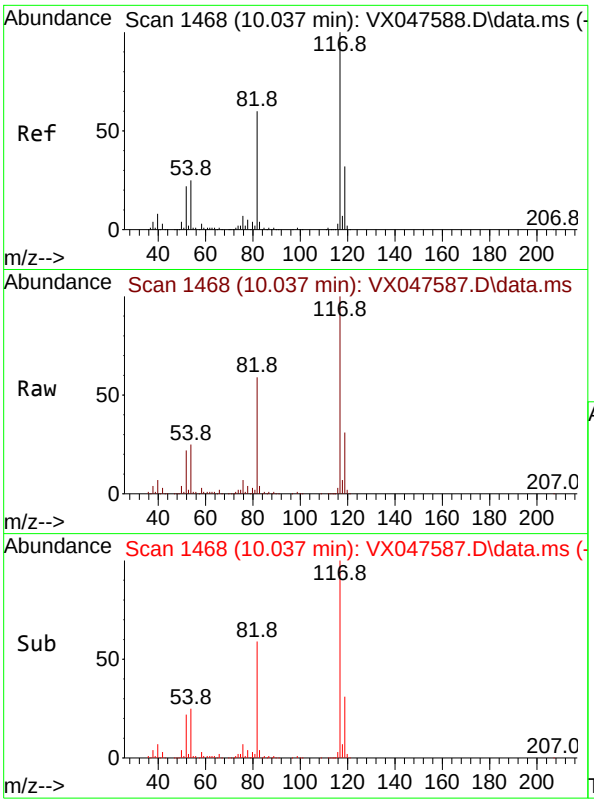


#62
4-Bromofluorobenzene
Concen: 16.360 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 95 Resp: 48454

Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	141.6
176	70.3	0.0	138.4

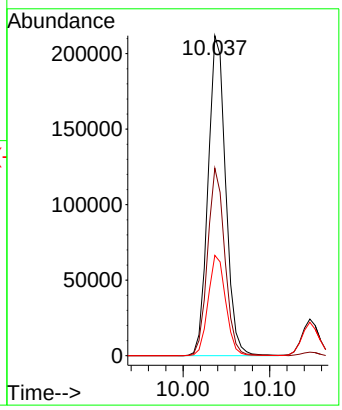




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 29862

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.8	71.6
119	31.3	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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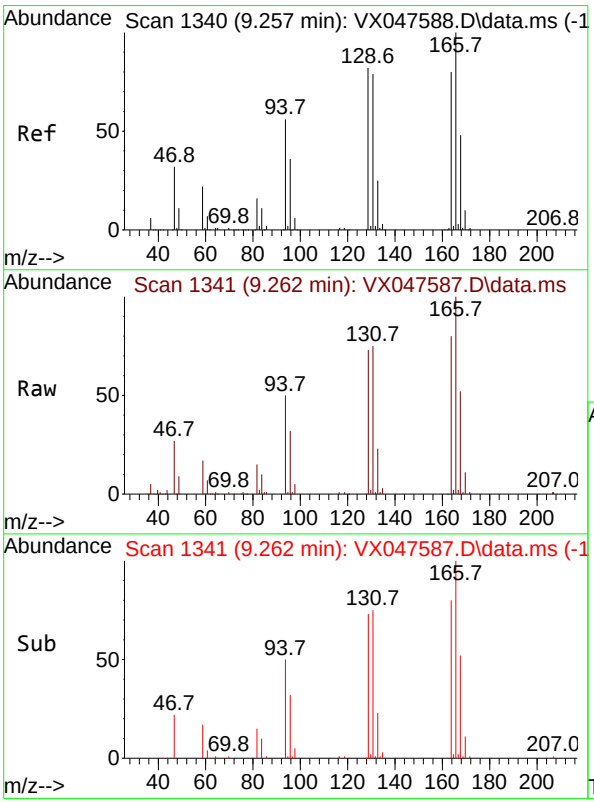
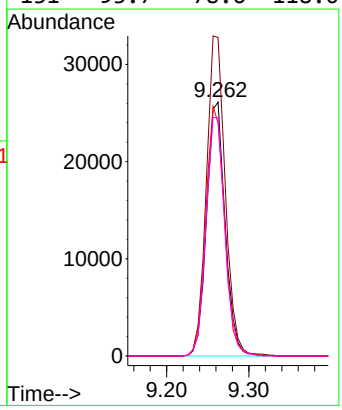
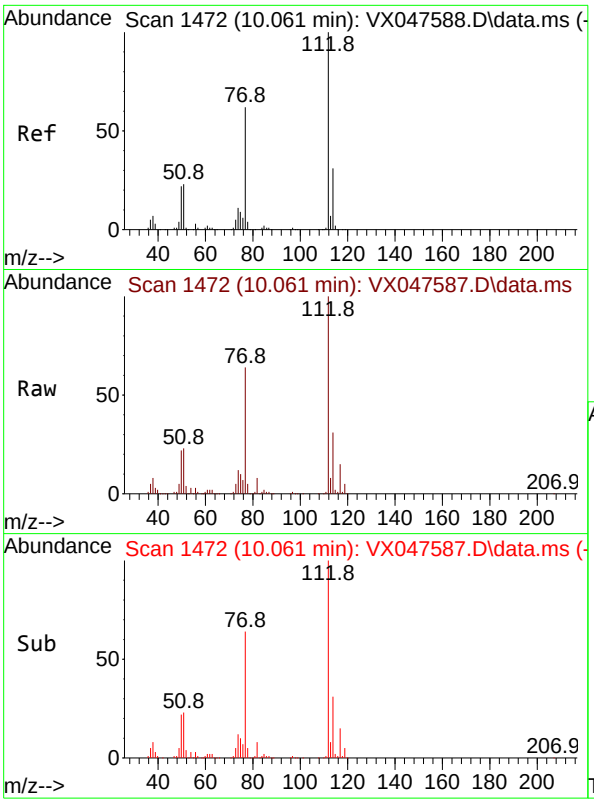


#64
Tetrachloroethene
Concen: 20.979 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:164 Resp: 40840

Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.2	150.2
129	91.8	81.8	122.6
131	93.7	78.6	118.0





#65
Chlorobenzene
Concen: 20.731 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:112 Resp: 14064

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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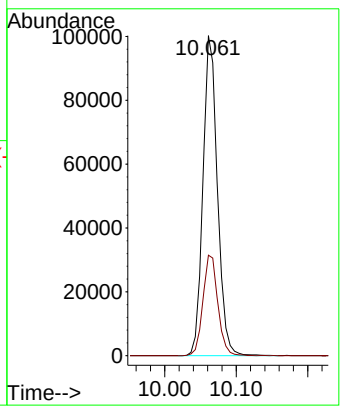
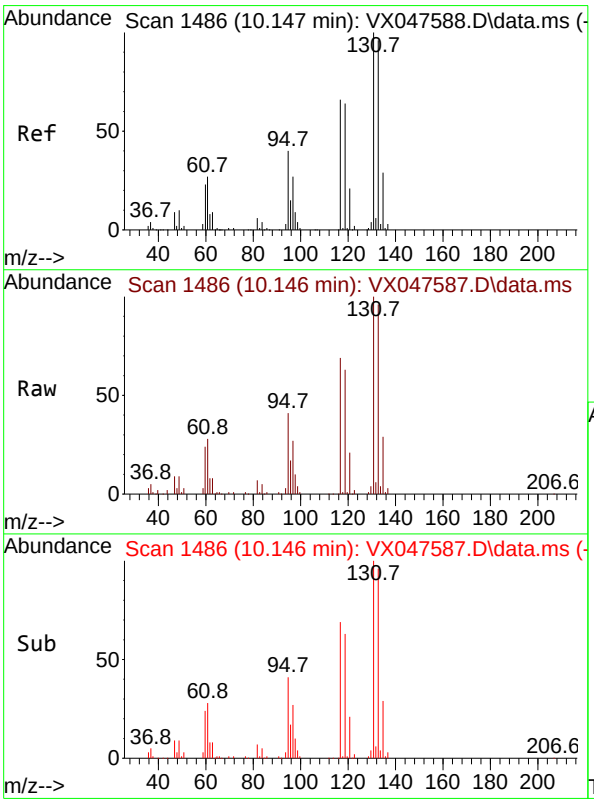
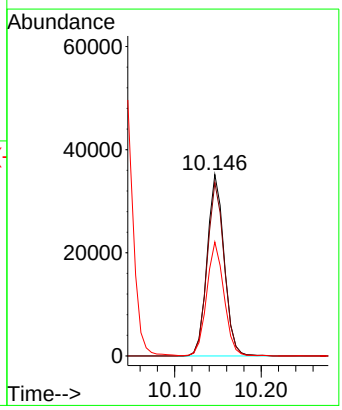


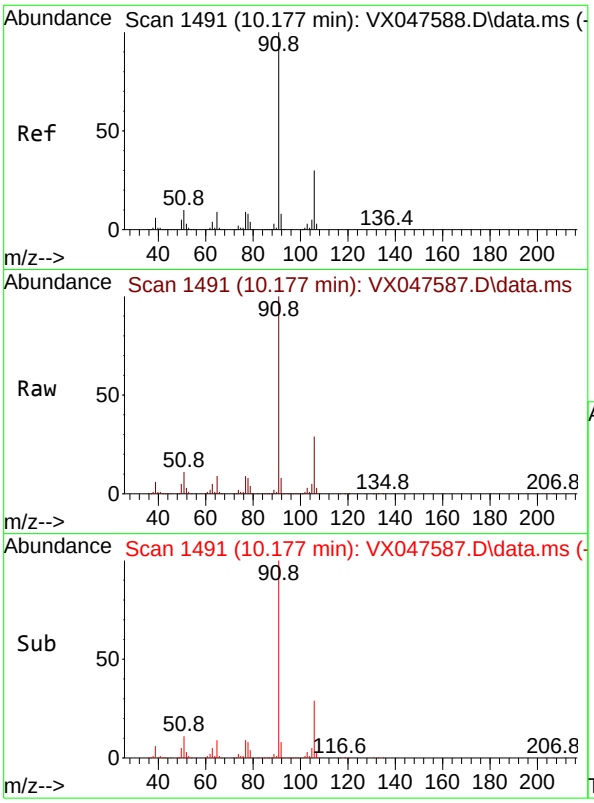


#66
1,1,1,2-Tetrachloroethane
Concen: 20.513 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:131 Resp: 48022

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.3	142.0
119	63.9	32.0	96.0





#67
Ethyl Benzene
Concen: 20.907 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 24473

Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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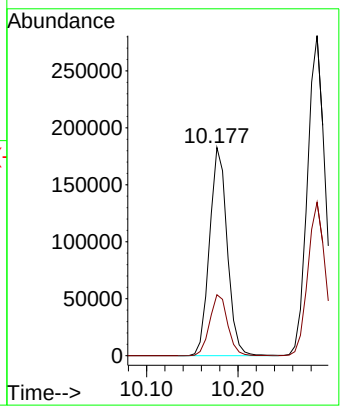
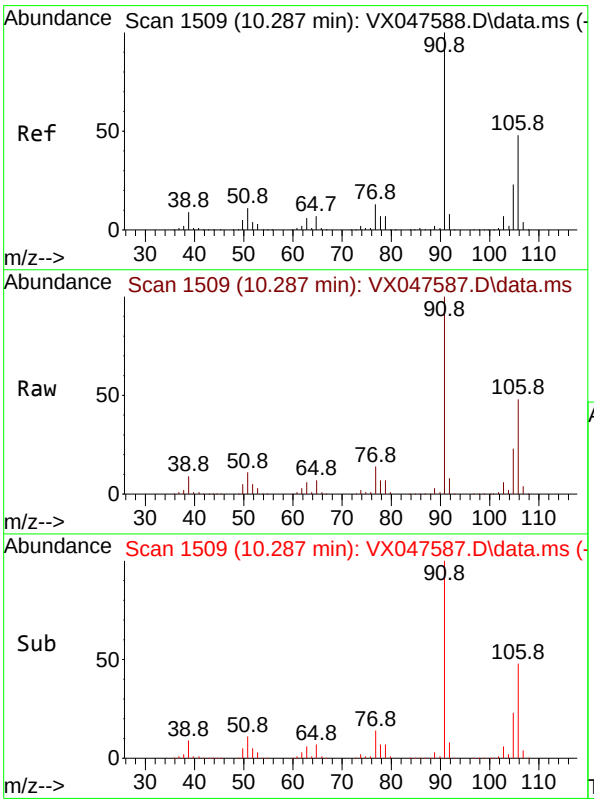
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

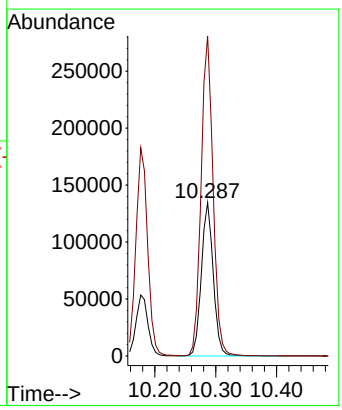


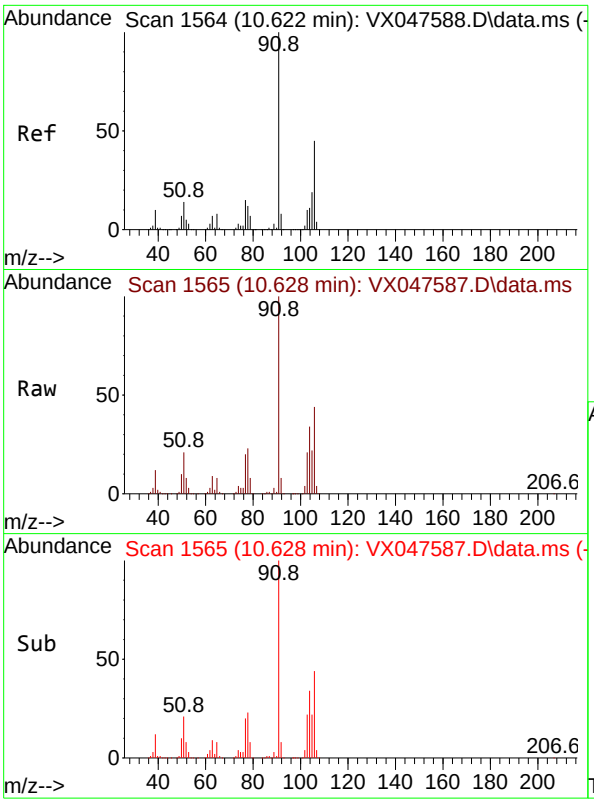


#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:106 Resp: 182778

Ion	Ratio	Lower	Upper
106	100		
91	210.2	167.8	251.8

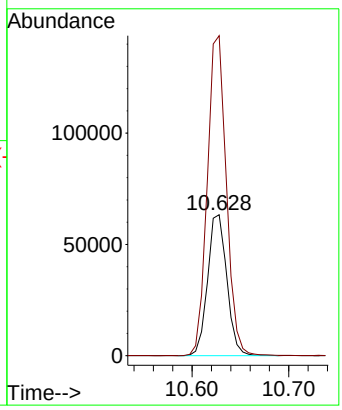




#69
o-Xylene
Concen: 20.799 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:106 Resp: 8765

Ion	Ratio	Lower	Upper
106	100		
91	225.3	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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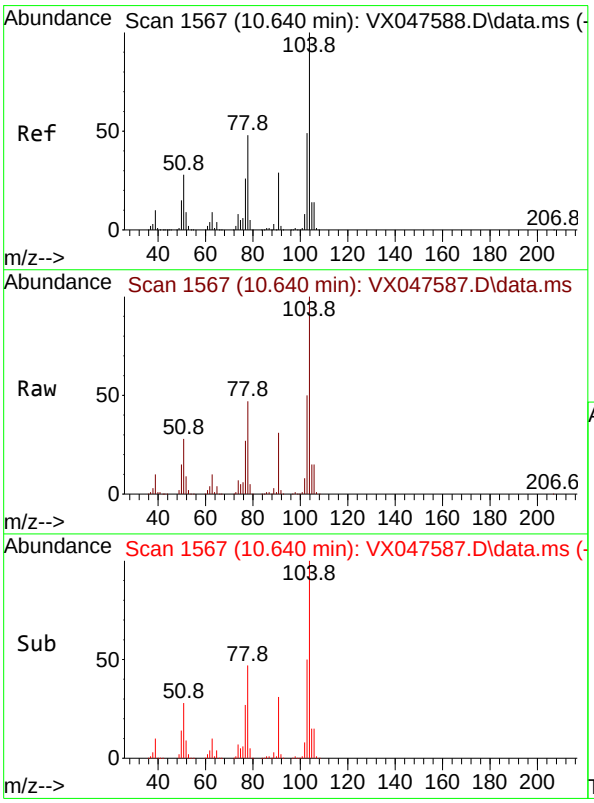
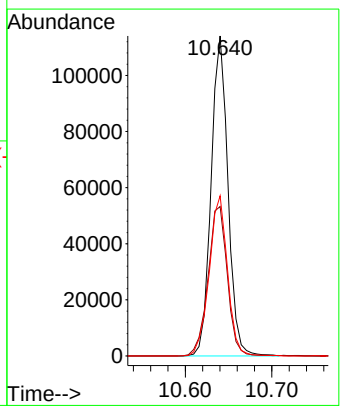
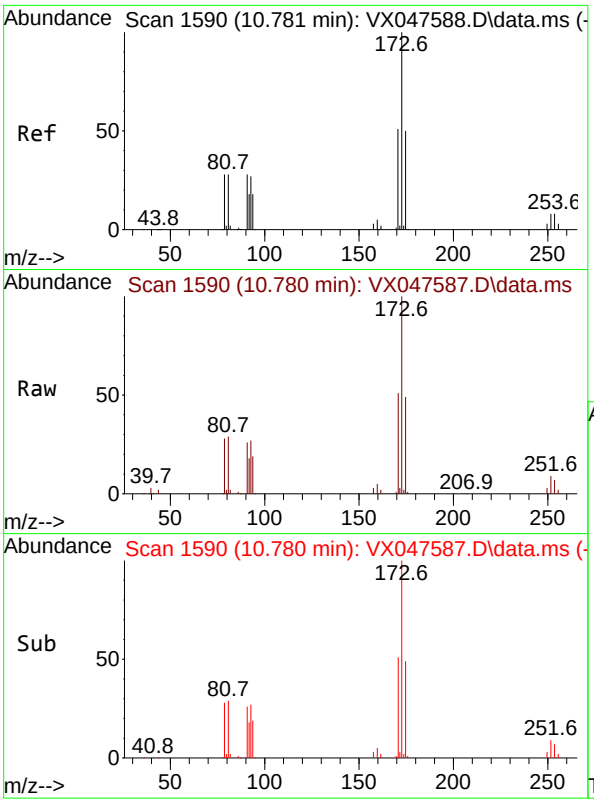


#70
Styrene
Concen: 20.866 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:104 Resp: 154077

Ion	Ratio	Lower	Upper
104	100		
78	53.6	43.1	64.7
103	54.4	43.1	64.7

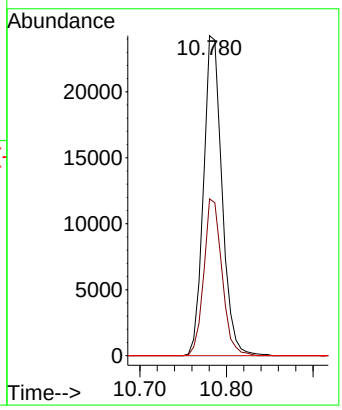




#71
Bromoform
Concen: 20.550 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:173 Resp: 3592

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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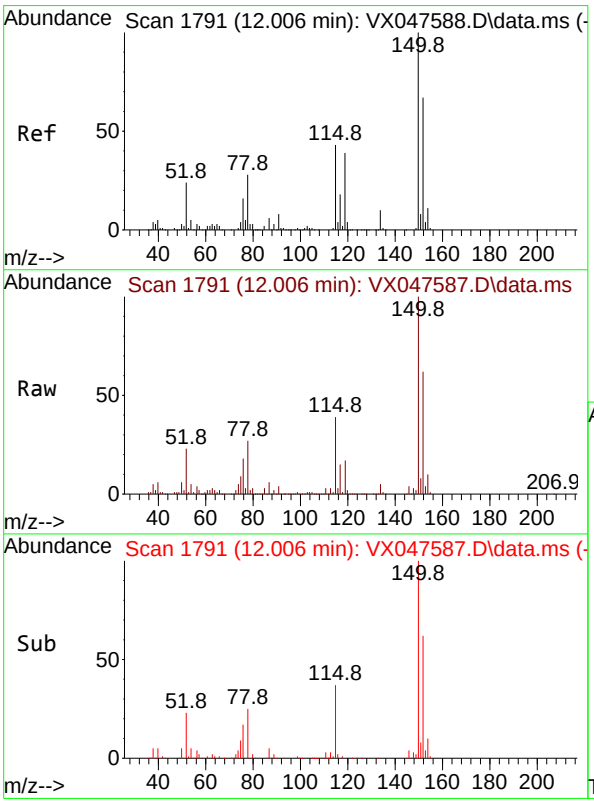
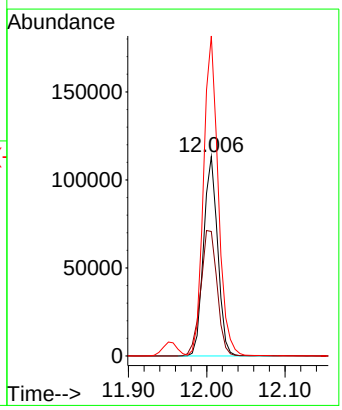
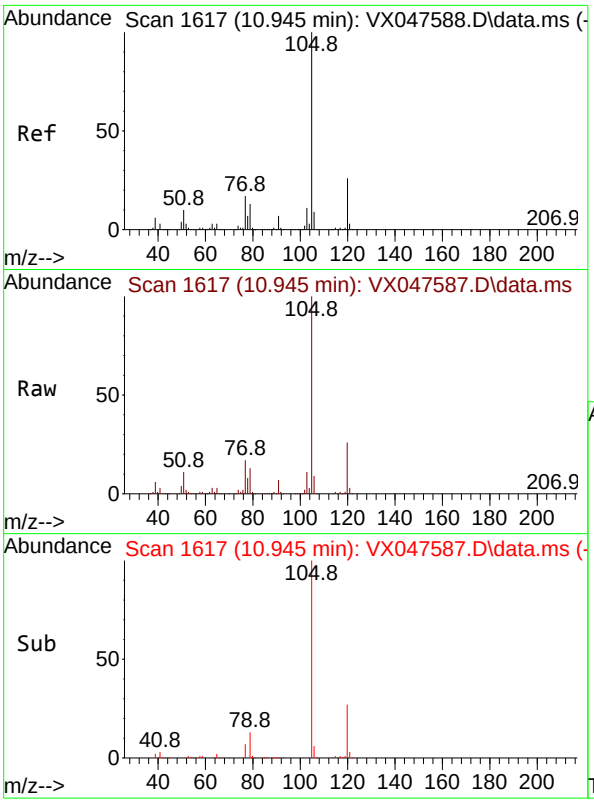


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:152 Resp: 141590

Ion	Ratio	Lower	Upper
152	100		
115	73.2	44.9	134.5
150	167.1	0.0	352.0





#73
Isopropylbenzene
Concen: 20.970 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 22573

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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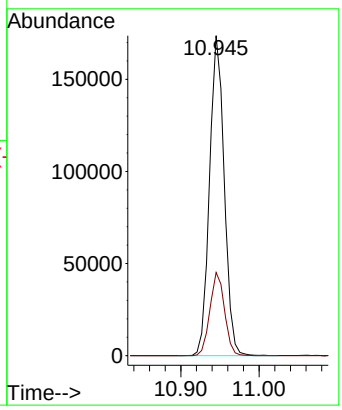
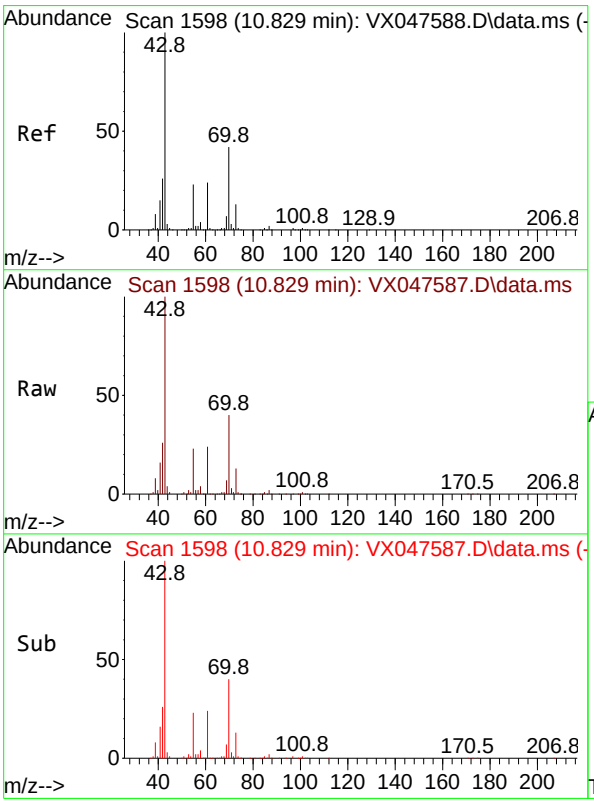
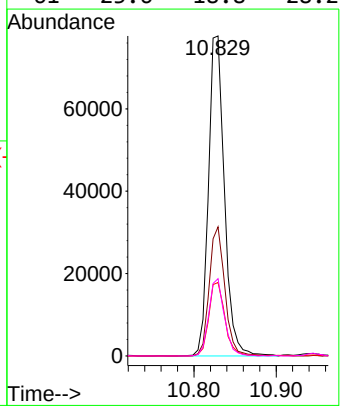


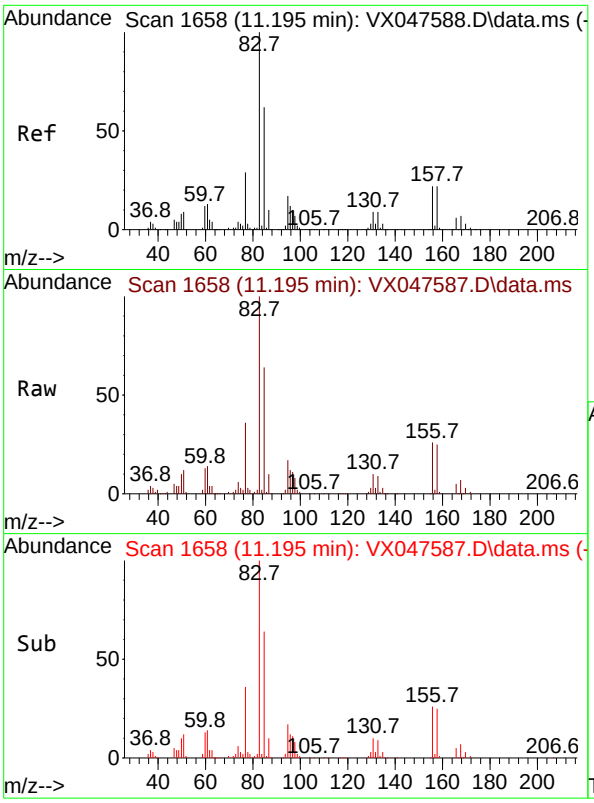


#74
N-amyl acetate
Concen: 21.354 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 104823

Ion	Ratio	Lower	Upper
43	100		
70	39.8	32.0	48.0
55	23.4	18.9	28.3
61	23.6	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 20.920 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 6813

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.4	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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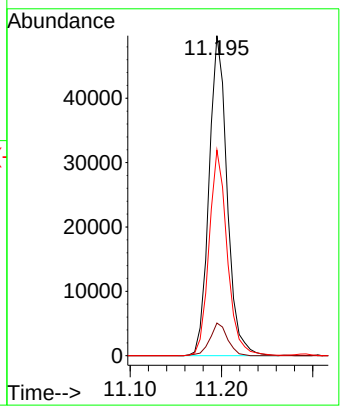
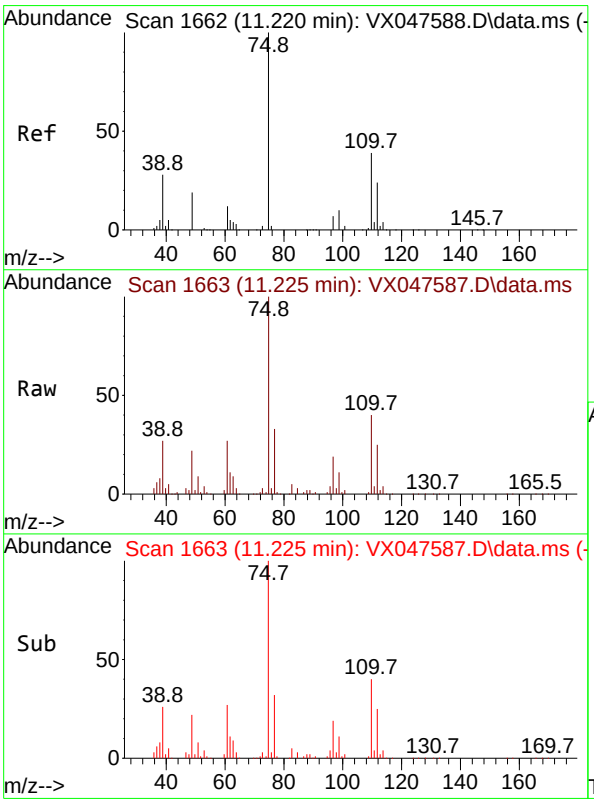
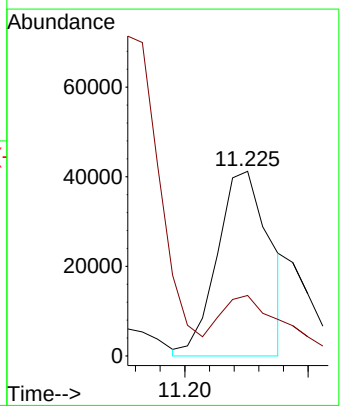


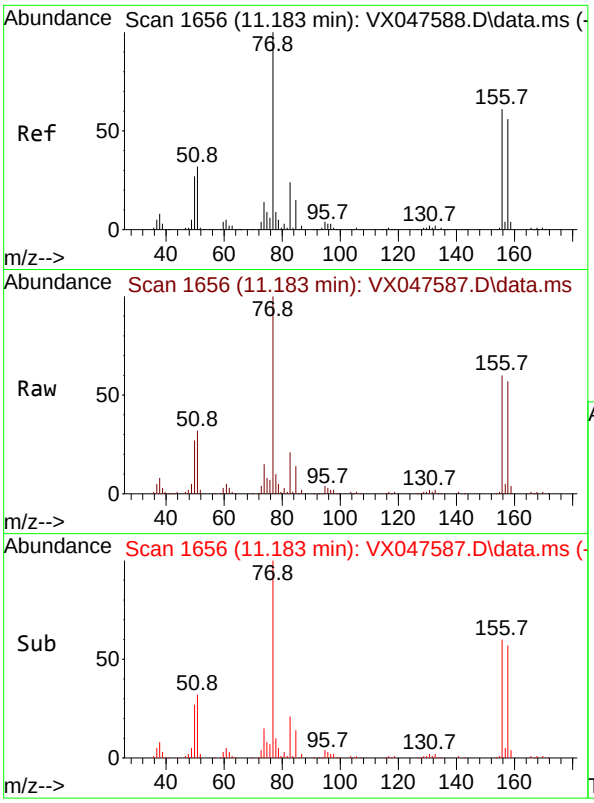


#76
1,2,3-Trichloropropane
Concen: 20.680 ug/l m
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 60797

Ion	Ratio	Lower	Upper
75	100		
77	39.6	18.8	56.4

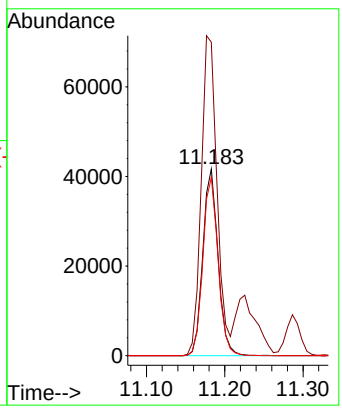




#77
Bromobenzene
Concen: 21.183 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:156 Resp: 5616

Ion	Ratio	Lower	Upper
156	100		
77	177.4	89.7	269.1
158	95.2	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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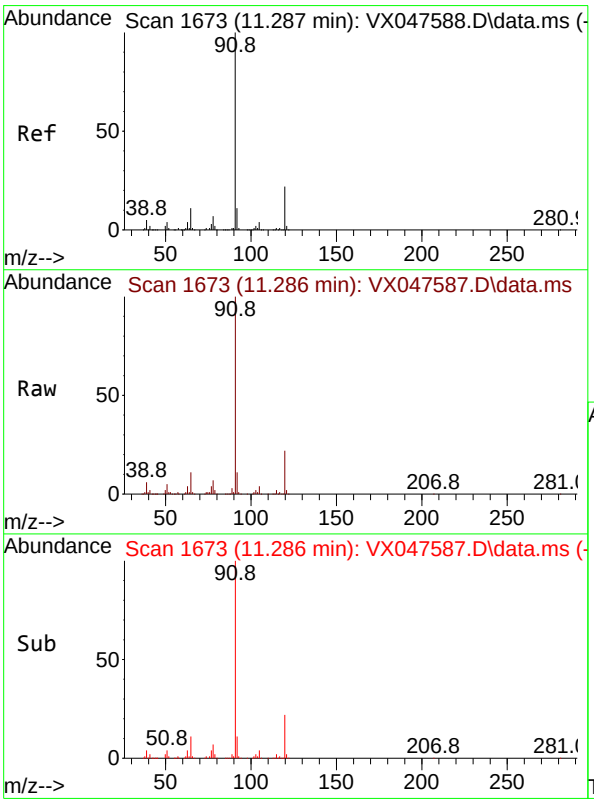
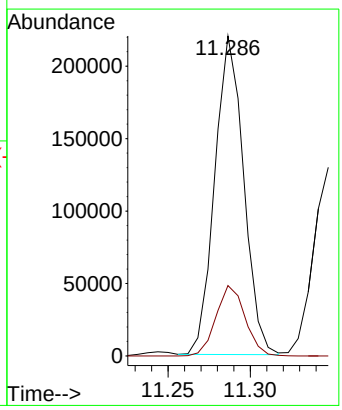
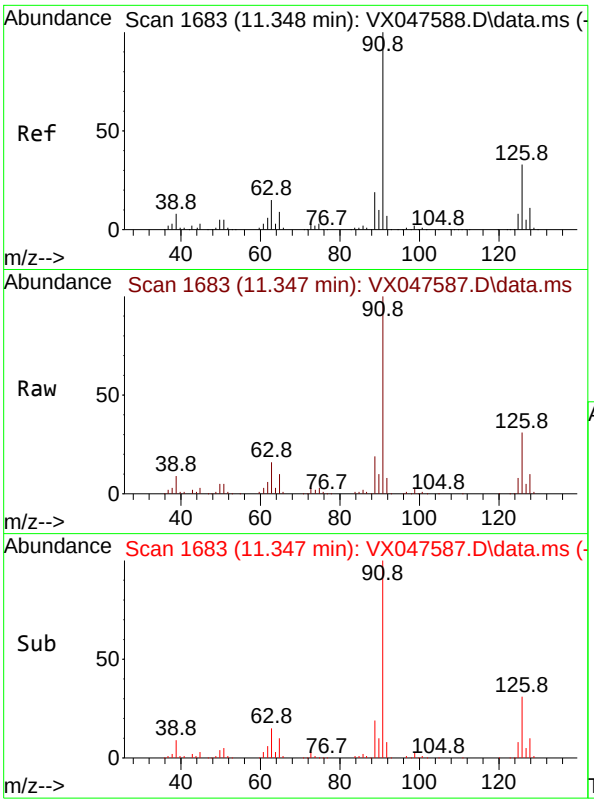


#78
n-propylbenzene
Concen: 21.092 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 268399

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1





#79
2-Chlorotoluene
Concen: 21.329 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 16623

Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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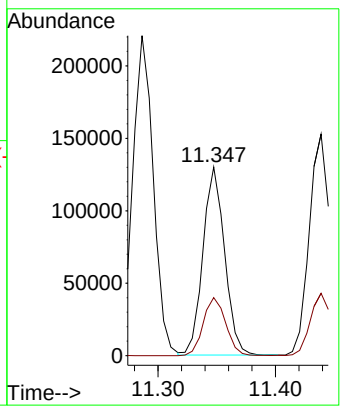
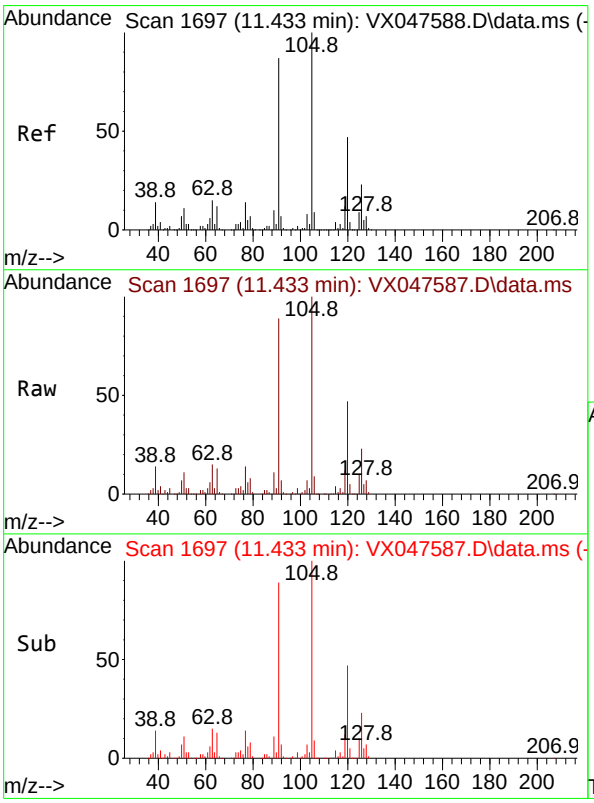
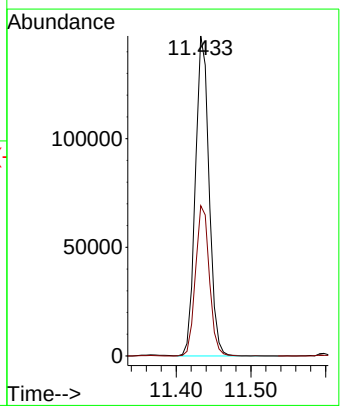


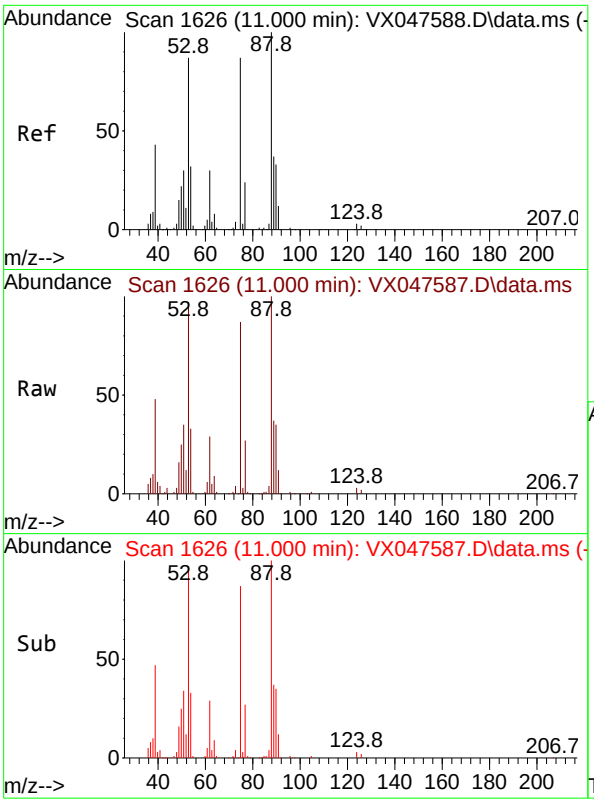


#80
1,3,5-Trimethylbenzene
Concen: 21.202 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 187513

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 19.173 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 2155

Ion	Ratio	Lower	Upper
75	100		
53	109.1	83.4	125.2
89	47.6	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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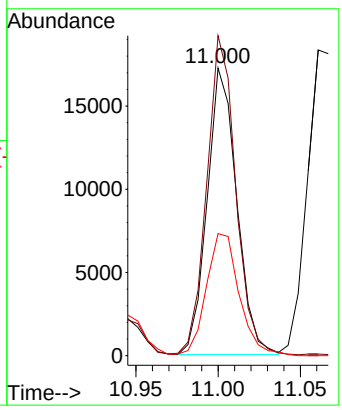
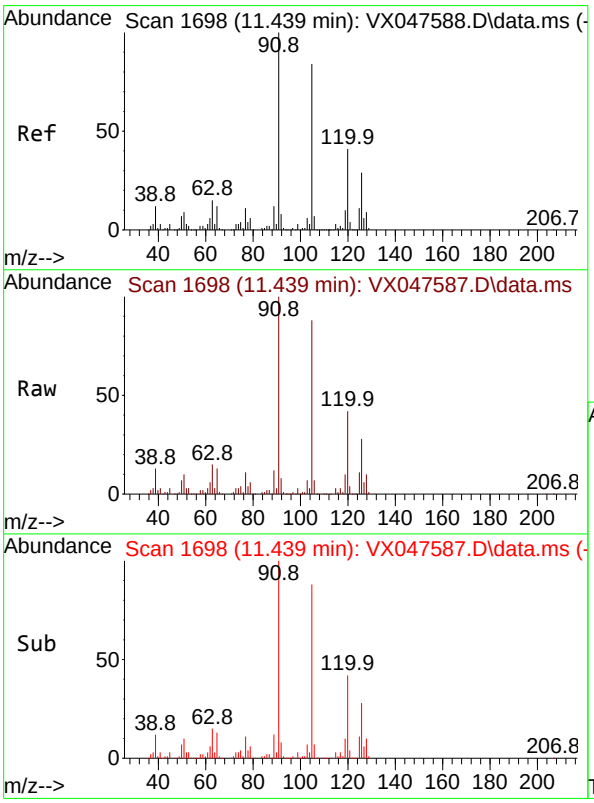
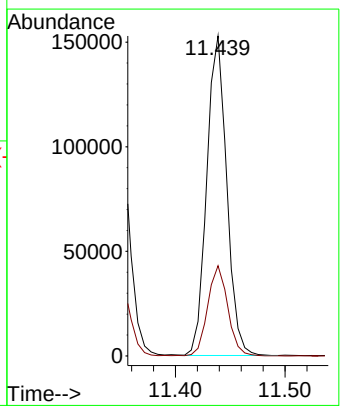


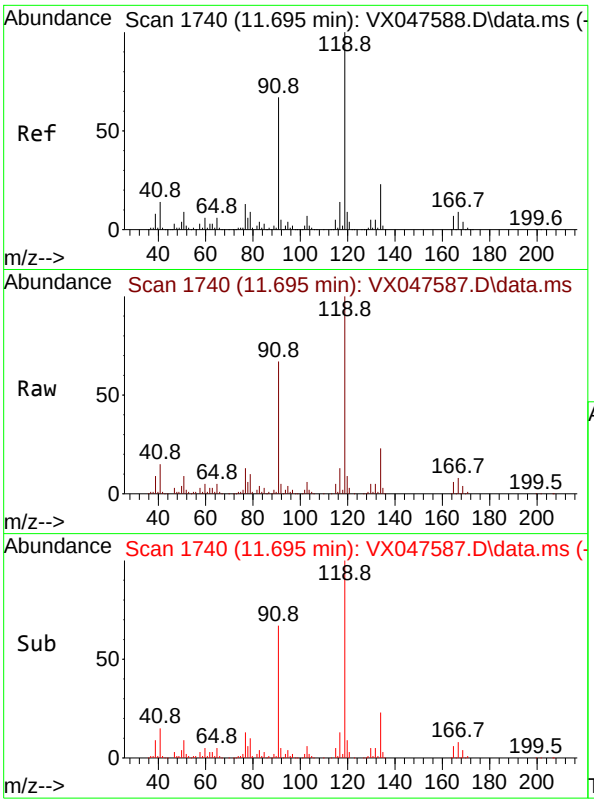


#82
4-Chlorotoluene
Concen: 20.980 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 193122

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6

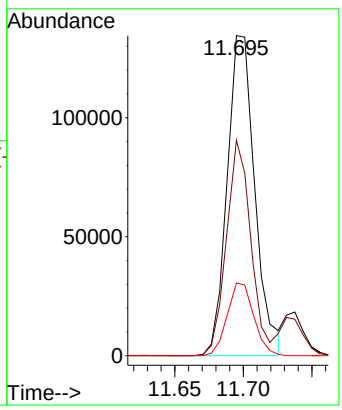




#83
tert-Butylbenzene
Concen: 20.929 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:119 Resp: 18948

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	21.8	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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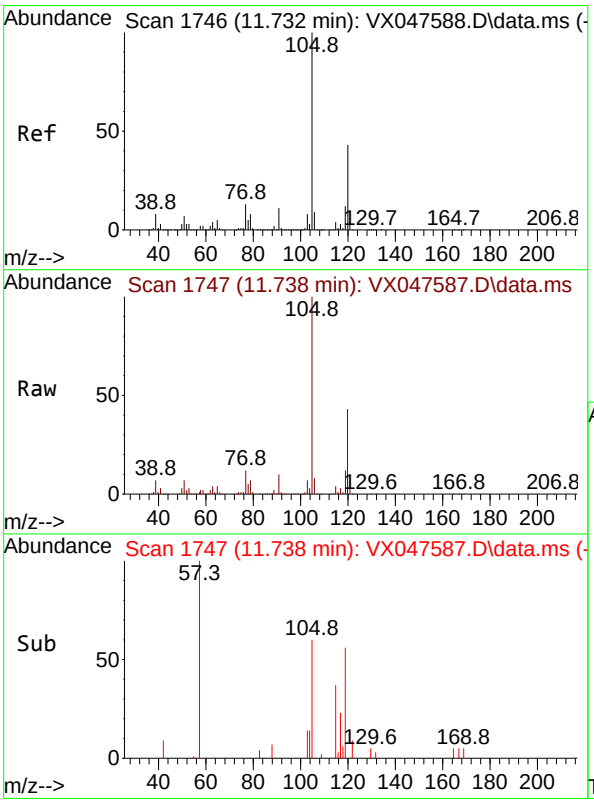
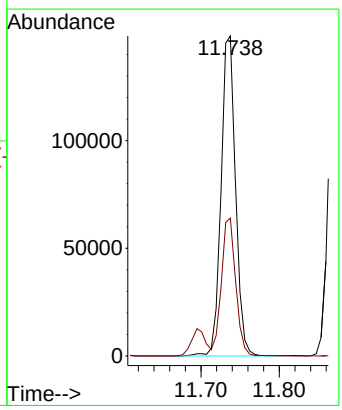
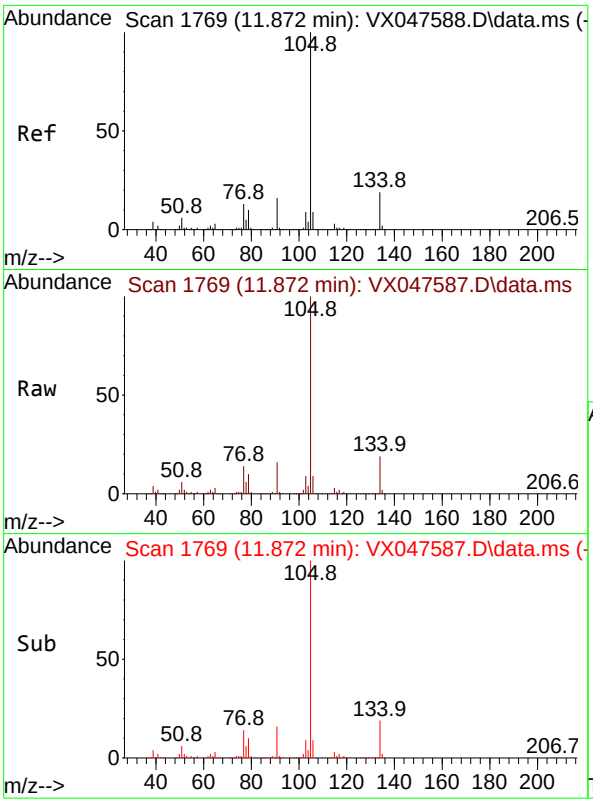


#84
1,2,4-Trimethylbenzene
Concen: 21.355 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 191477

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.1	66.1

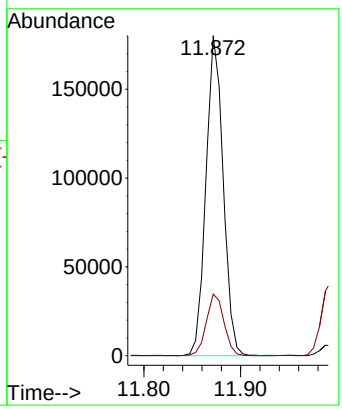




#85
sec-Butylbenzene
Concen: 20.777 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 22343

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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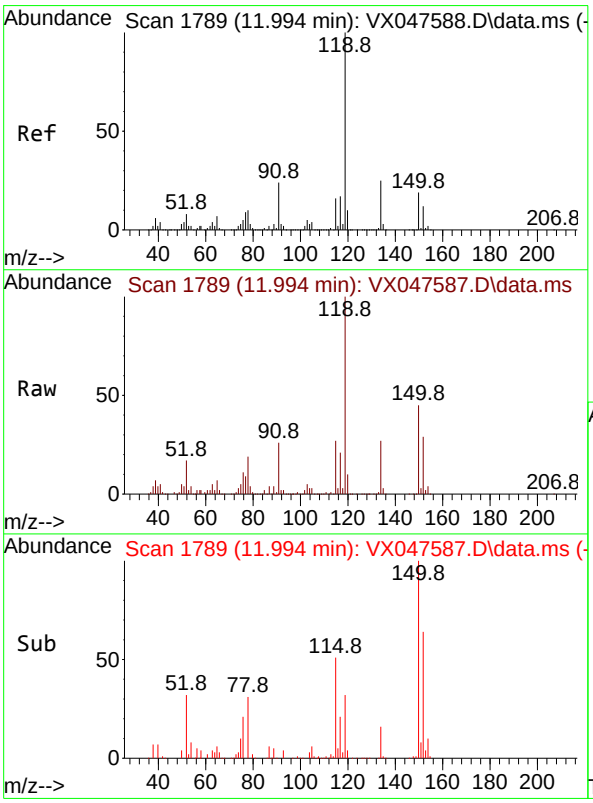
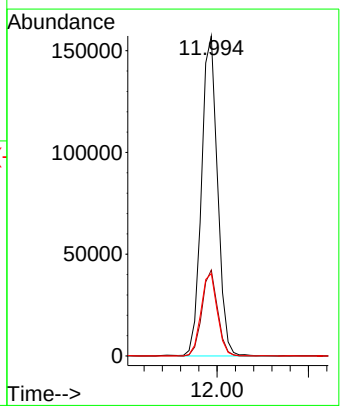
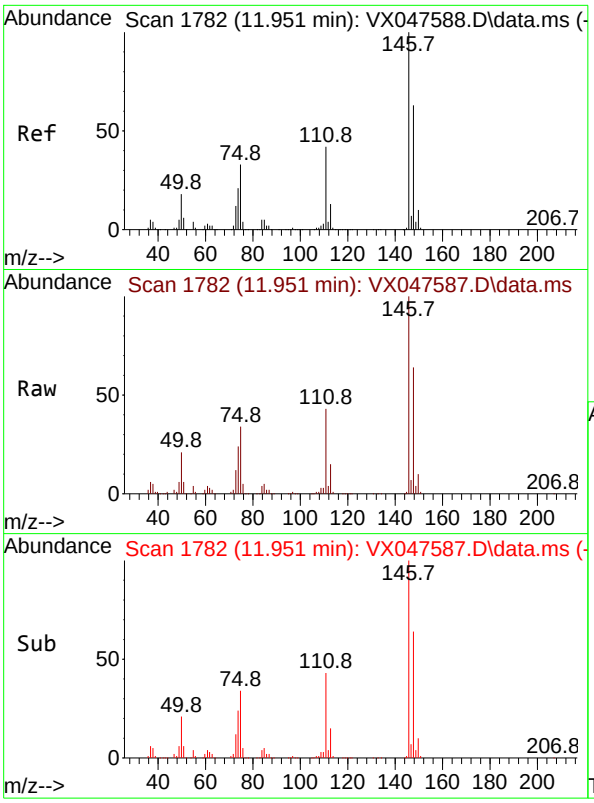


#86
p-Isopropyltoluene
Concen: 20.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:119 Resp: 190931

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	26.2	12.6	37.6

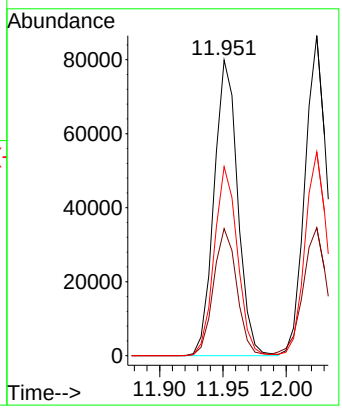




#87
1,3-Dichlorobenzene
Concen: 21.035 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 10358

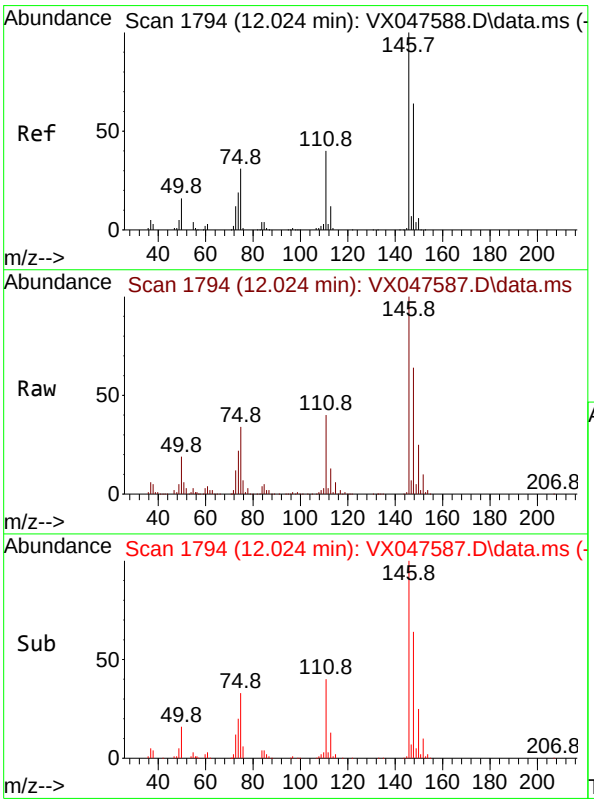
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	62.7	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

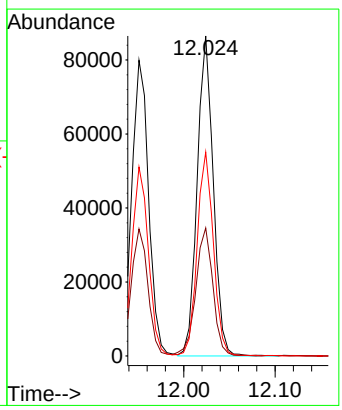
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

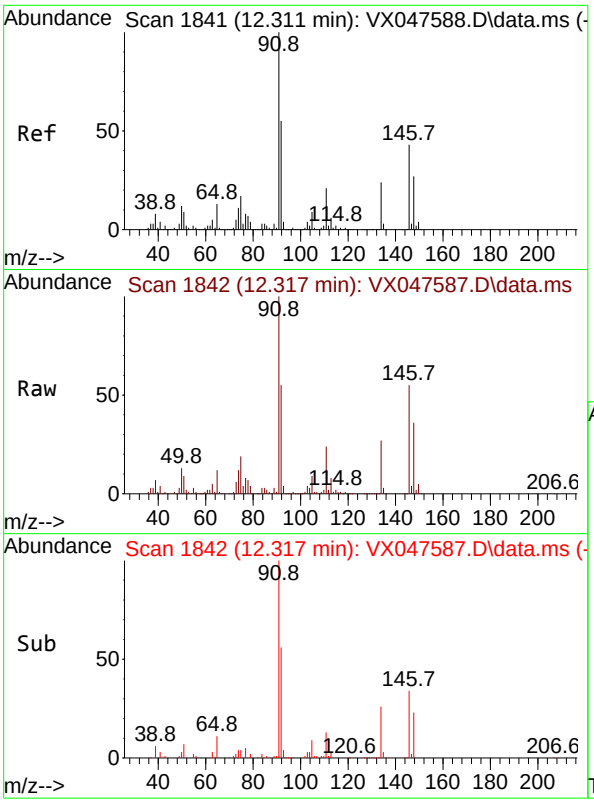


#88
1,4-Dichlorobenzene
Concen: 20.937 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 105819

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.4
148	64.4	31.7	95.1

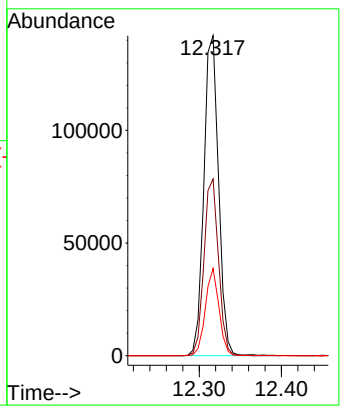




#89
n-Butylbenzene
Concen: 20.937 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 17637

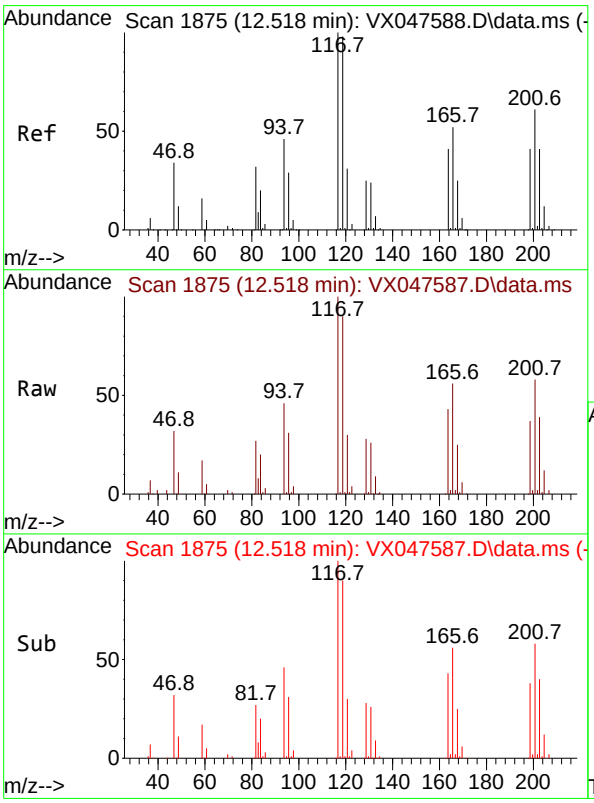
Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

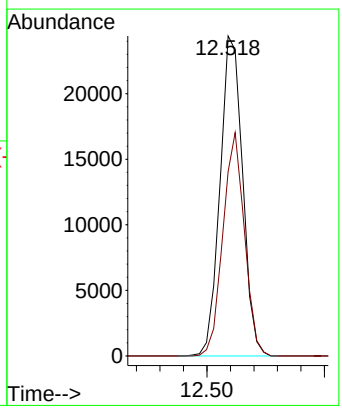
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

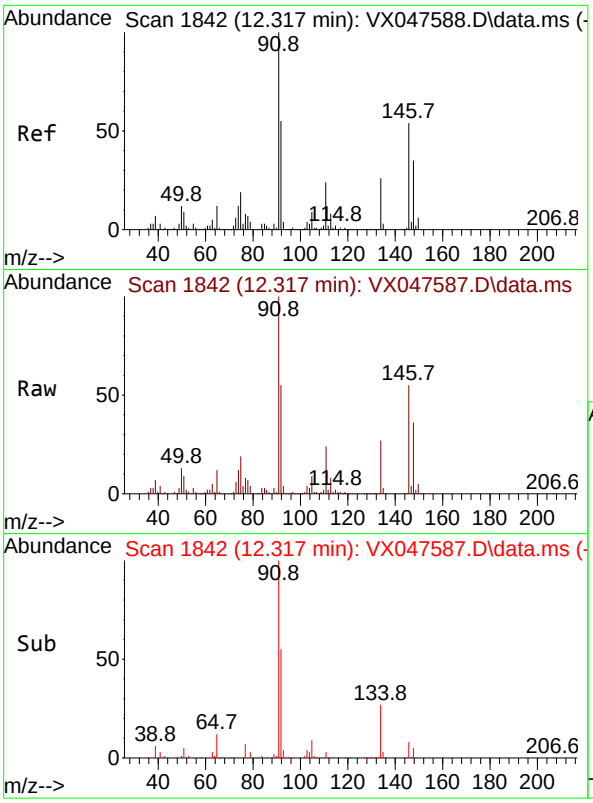


#90
Hexachloroethane
Concen: 20.349 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 32526

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5

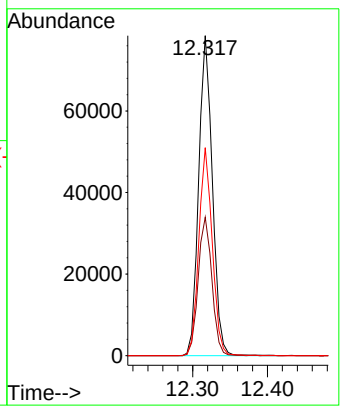




#91
1,2-Dichlorobenzene
Concen: 21.207 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 9949

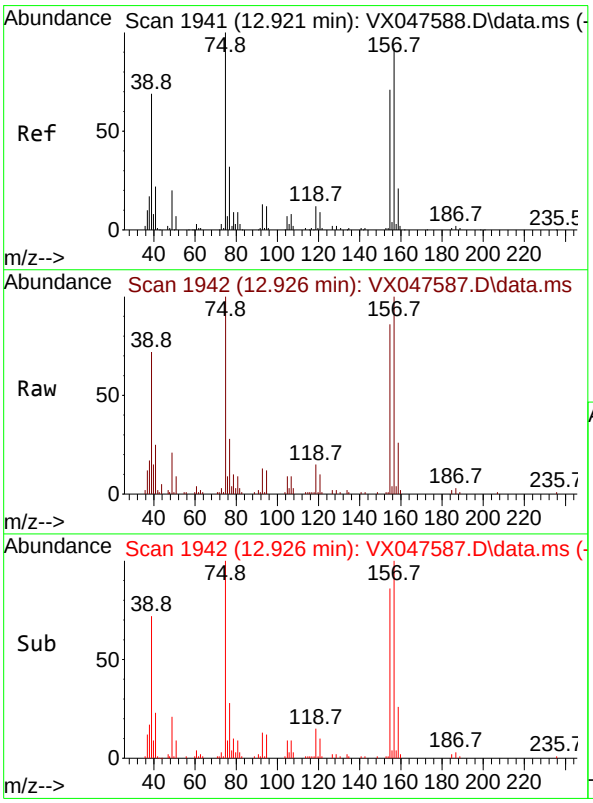
Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.2	66.6
148	63.9	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

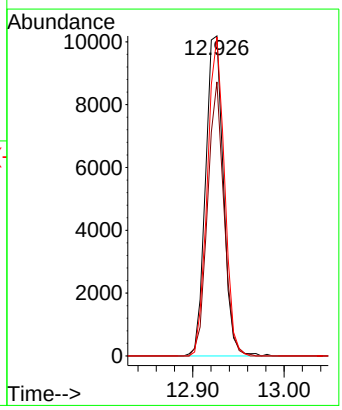
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

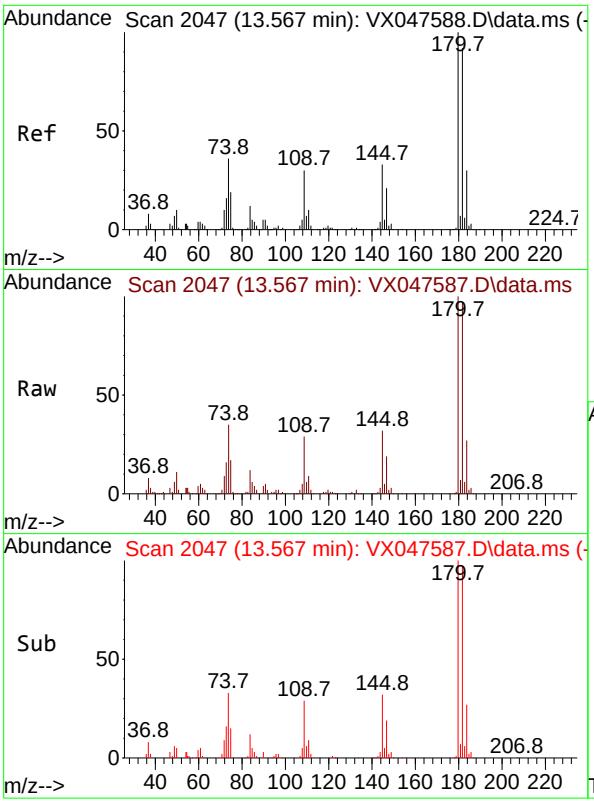


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.821 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 13729

Ion	Ratio	Lower	Upper
75	100		
155	78.8	37.7	113.1
157	95.9	49.8	149.4

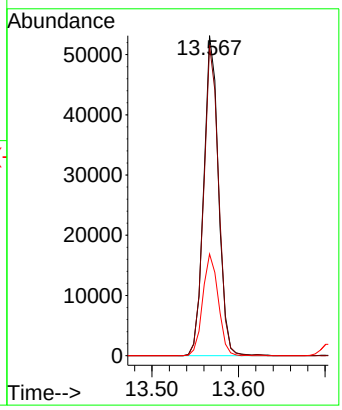




#93
1,2,4-Trichlorobenzene
Concen: 20.571 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:180 Resp: 6272

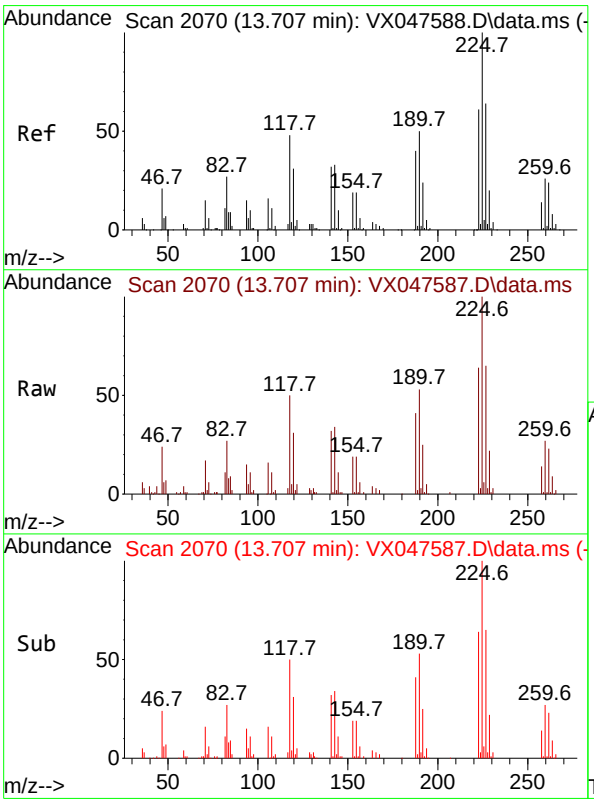
Ion	Ratio	Lower	Upper
180	100		
182	97.8	46.6	139.8
145	33.4	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

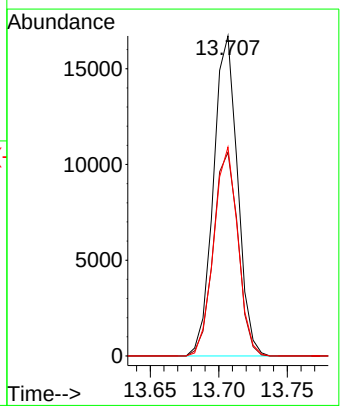
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

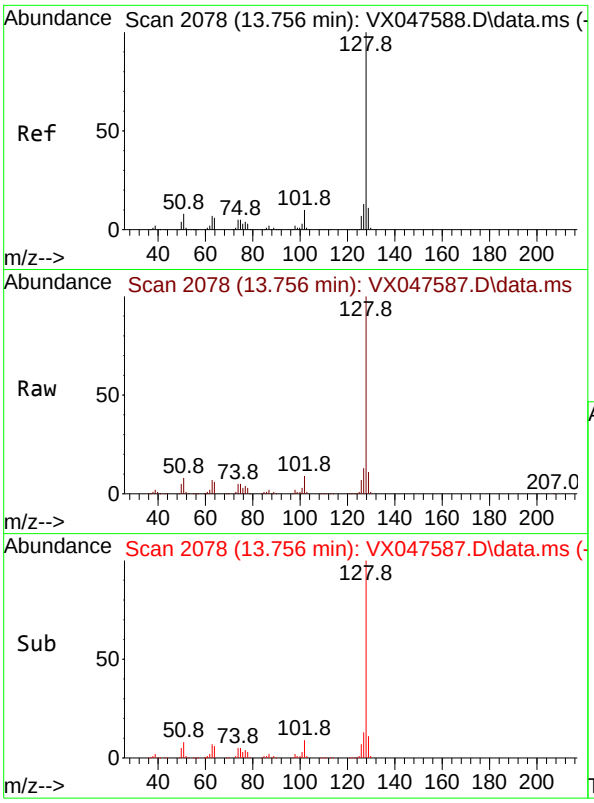


#94
Hexachlorobutadiene
Concen: 19.751 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:225 Resp: 20456

Ion	Ratio	Lower	Upper
225	100		
223	65.0	31.7	95.1
227	65.1	32.0	96.0

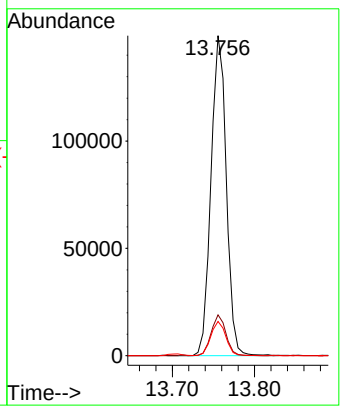




#95
Naphthalene
Concen: 20.801 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:128 Resp: 19313

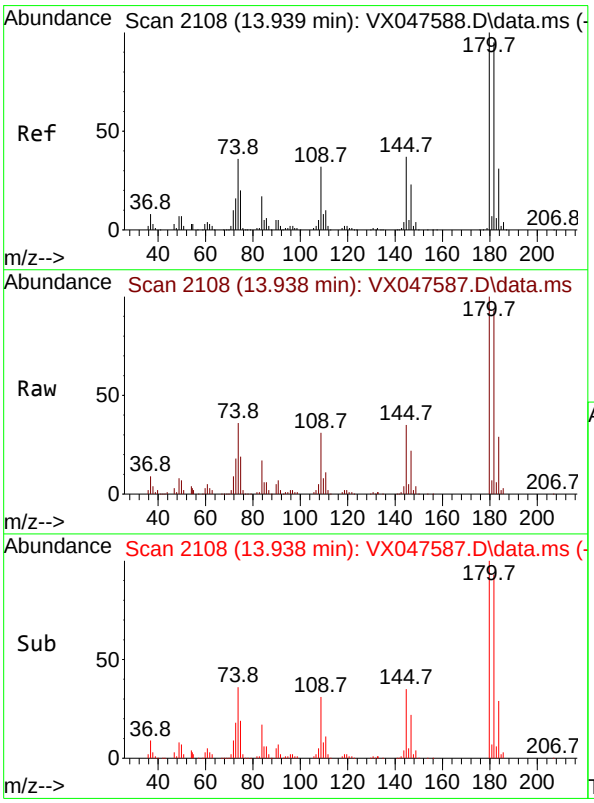
Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.2
129	10.5	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

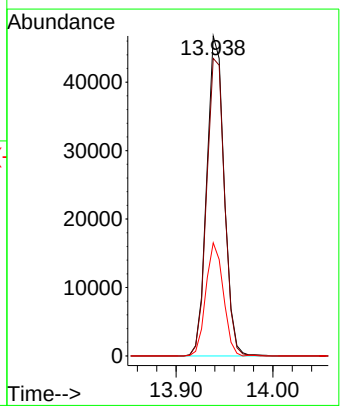
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.593 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:180 Resp: 58409

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.5	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	173407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	307383	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270040	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	127732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	133606	48.404	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 96.800%			
35) Dibromofluoromethane	5.373	113	101627	49.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.600%			
50) Toluene-d8	8.635	98	352578	49.428	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.860%			
62) 4-Bromofluorobenzene	11.061	95	131217	48.471	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	86824	48.352	ug/l	100
3) Chloromethane	1.301	50	114682	48.594	ug/l	100
4) Vinyl Chloride	1.380	62	114666	49.635	ug/l	100
5) Bromomethane	1.618	94	73561	50.216	ug/l	100
6) Chloroethane	1.697	64	76736	49.698	ug/l	100
7) Trichlorofluoromethane	1.898	101	172561	50.307	ug/l	100
8) Diethyl Ether	2.136	74	70874	50.510	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	101178	50.445	ug/l	100
10) Methyl Iodide	2.459	142	158046	50.525	ug/l	100
11) Tert butyl alcohol	2.941	59	77232	251.232	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104724	50.831	ug/l	100
13) Acrolein	2.239	56	70721	249.645	ug/l	100
14) Allyl chloride	2.666	41	210001	49.396	ug/l	100
15) Acrylonitrile	3.063	53	300642	264.027	ug/l	100
16) Acetone	2.374	43	275065	229.193	ug/l	100
17) Carbon Disulfide	2.520	76	271480	48.133	ug/l	100
18) Methyl Acetate	2.703	43	151968	56.897	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	389607	51.804	ug/l	100
20) Methylene Chloride	2.788	84	126506	49.798	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	112553	50.743	ug/l	100
22) Diisopropyl ether	3.758	45	429524	52.131	ug/l	100
23) Vinyl Acetate	3.715	43	1726735	261.852	ug/l	100
24) 1,1-Dichloroethane	3.605	63	224824	51.338	ug/l	100
25) 2-Butanone	4.538	43	380335	254.060	ug/l	100
26) 2,2-Dichloropropane	4.465	77	185247	50.888	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	140105	51.576	ug/l	100
28) Bromochloromethane	4.891	49	99991	52.301	ug/l	100
29) Tetrahydrofuran	4.989	42	238677	265.026	ug/l	100
30) Chloroform	5.080	83	229430	51.844	ug/l	100
31) Cyclohexane	5.458	56	178546	48.952	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	195407	52.058	ug/l	100
36) 1,1-Dichloropropene	5.684	75	149800	49.729	ug/l	100
37) Ethyl Acetate	4.702	43	163482	50.687	ug/l	100
38) Carbon Tetrachloride	5.672	117	165730	50.637	ug/l	100
39) Methylcyclohexane	7.367	83	173610	50.773	ug/l	100
40) Benzene	6.025	78	468136	51.167	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	87761	52.707	ug/l		100
42) 1,2-Dichloroethane	6.074	62	179037	51.431	ug/l		100
43) Isopropyl Acetate	6.324	43	275572	52.096	ug/l		100
44) Trichloroethene	7.111	130	113832	51.463	ug/l		100
45) 1,2-Dichloropropane	7.415	63	122109	52.122	ug/l		100
46) Dibromomethane	7.568	93	88505	51.914	ug/l		100
47) Bromodichloromethane	7.806	83	186540	53.025	ug/l		100
48) Methyl methacrylate	7.678	41	138167	52.438	ug/l		100
49) 1,4-Dioxane	7.647	88	29496	1107.698	ug/l		100
51) 4-Methyl-2-Pentanone	8.562	43	784978	267.650	ug/l		100
52) Toluene	8.702	92	288853	51.244	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	190282	53.027	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	200859	52.369	ug/l		100
55) 1,1,2-Trichloroethane	9.135	97	112837	51.915	ug/l		100
56) Ethyl methacrylate	9.104	69	184087	53.930	ug/l		100
57) 1,3-Dichloropropane	9.293	76	195989	52.492	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	418707	256.309	ug/l		100
59) 2-Hexanone	9.415	43	553313	262.683	ug/l		100
60) Dibromochloromethane	9.506	129	133737	53.401	ug/l		100
61) 1,2-Dibromoethane	9.592	107	116462	52.607	ug/l		100
64) Tetrachloroethene	9.257	164	88149	50.074	ug/l		100
65) Chlorobenzene	10.061	112	317982	51.833	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.147	131	111849	52.835	ug/l		100
67) Ethyl Benzene	10.177	91	550610	52.017	ug/l		100
68) m/p-Xylenes	10.287	106	412932	104.809	ug/l		100
69) o-Xylene	10.622	106	202291	53.084	ug/l		100
70) Styrene	10.640	104	350654	52.515	ug/l		100
71) Bromoform	10.781	173	84485	53.447	ug/l	#	100
73) Isopropylbenzene	10.945	105	516891	53.227	ug/l		100
74) N-amyl acetate	10.829	43	237846	53.710	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	156454	53.251	ug/l		100
76) 1,2,3-Trichloropropane	11.220	75	144074m	54.322	ug/l		
77) Bromobenzene	11.183	156	126174	52.754	ug/l		100
78) n-propylbenzene	11.287	91	612035	53.315	ug/l		100
79) 2-Chlorotoluene	11.348	91	372397	52.965	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	426989	53.518	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	52927	52.190	ug/l		100
82) 4-Chlorotoluene	11.439	91	438502	52.806	ug/l		100
83) tert-Butylbenzene	11.695	119	429107	52.539	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	427073	52.798	ug/l		100
85) sec-Butylbenzene	11.872	105	514442	53.029	ug/l		100
86) p-Isopropyltoluene	11.994	119	436704	53.172	ug/l		100
87) 1,3-Dichlorobenzene	11.951	146	232038	52.232	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	233975	51.316	ug/l		100
89) n-Butylbenzene	12.311	91	400997	52.766	ug/l		100
90) Hexachloroethane	12.518	117	75800	52.567	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	222993	52.688	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.921	75	32451	54.554	ug/l		100
93) 1,2,4-Trichlorobenzene	13.567	180	147670	53.685	ug/l		100
94) Hexachlorobutadiene	13.707	225	49061	52.510	ug/l		100
95) Naphthalene	13.756	128	452013	53.966	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	138978	54.316	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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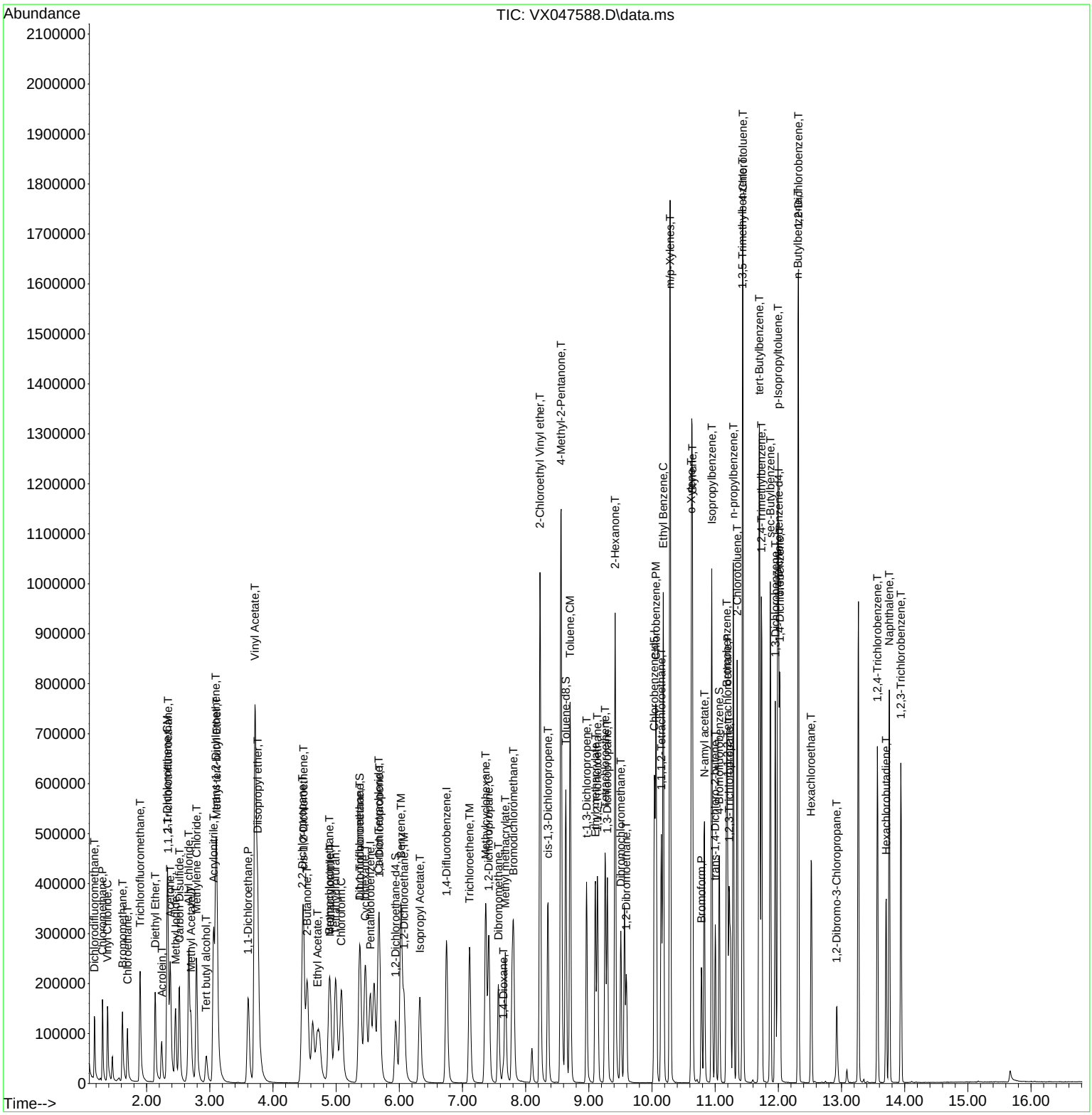
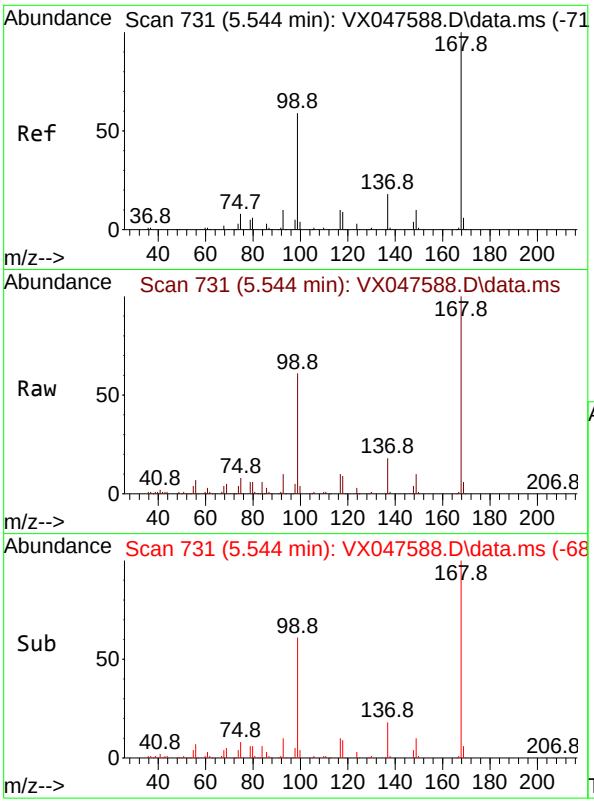
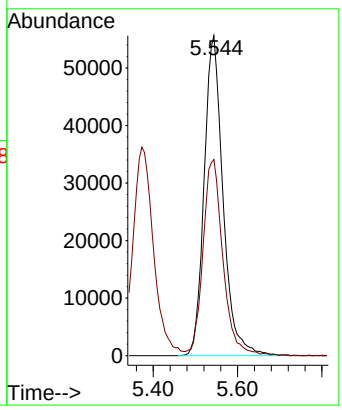




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:168 Resp: 17340

Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
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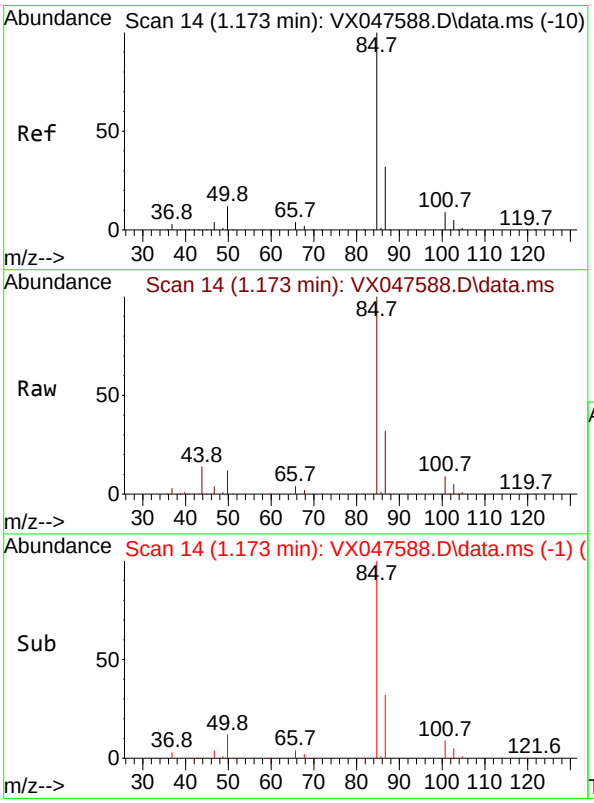
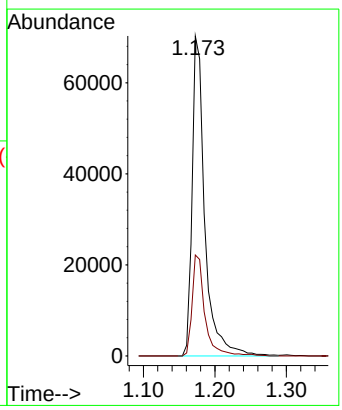
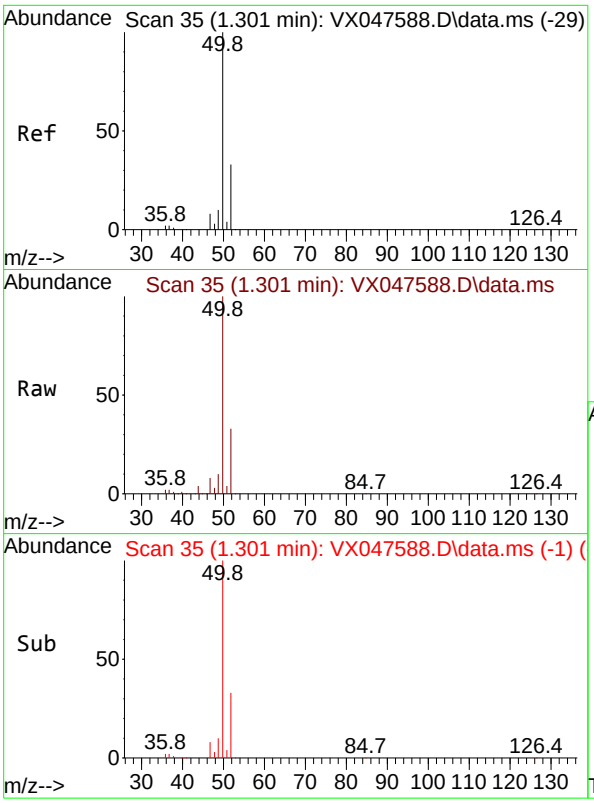


#2
Dichlorodifluoromethane
Concen: 48.352 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 85 Resp: 86824

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3

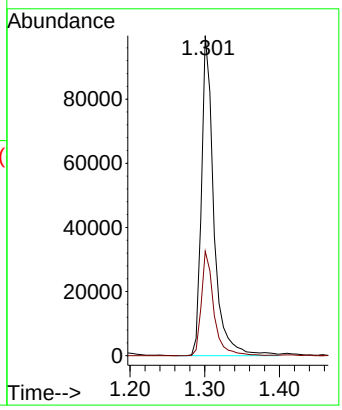




#3
Chloromethane
Concen: 48.594 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 50 Resp: 11468

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
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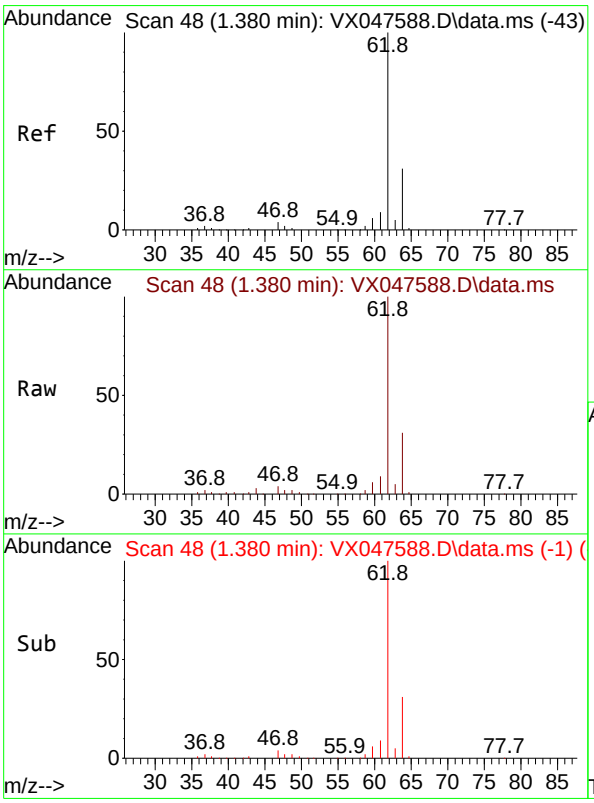
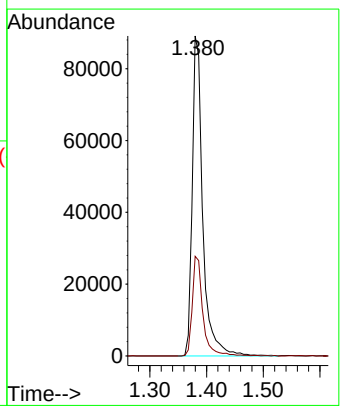
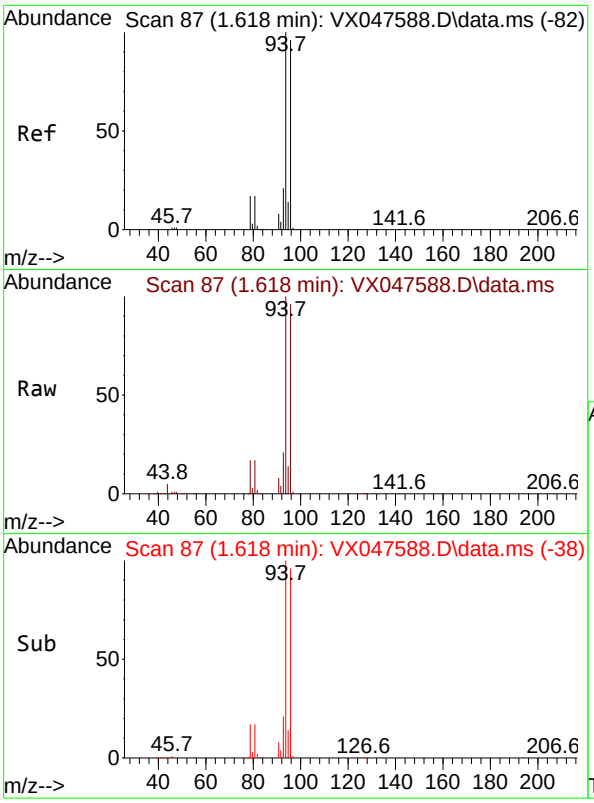


#4
Vinyl Chloride
Concen: 49.635 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 114666

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

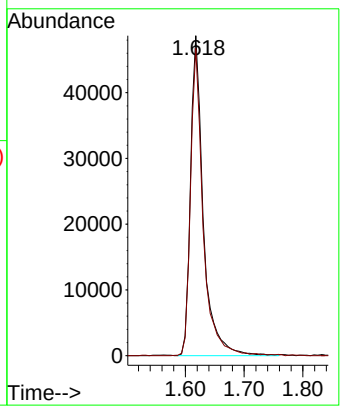




#5
Bromomethane
Concen: 50.216 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 94 Resp: 7356

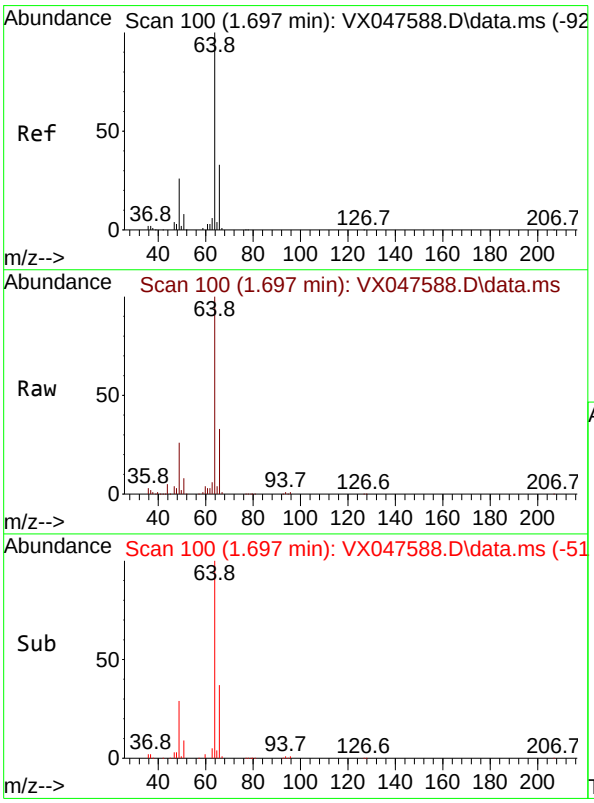
Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

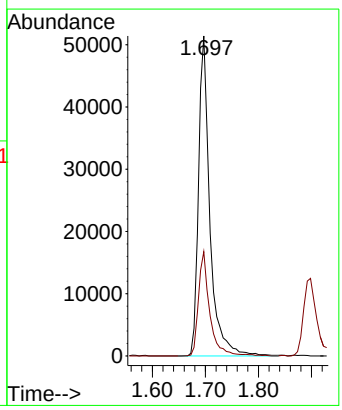
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

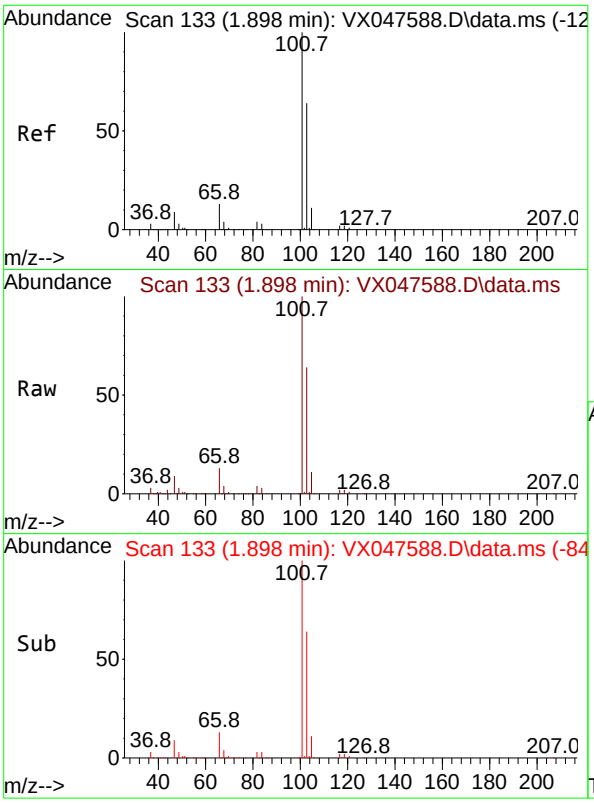


#6
Chloroethane
Concen: 49.698 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 64 Resp: 76736

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.1	39.1

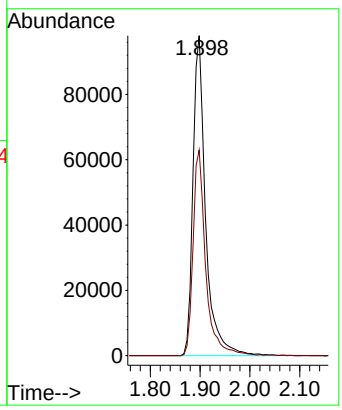




#7
Trichlorofluoromethane
Concen: 50.307 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:101 Resp: 17256

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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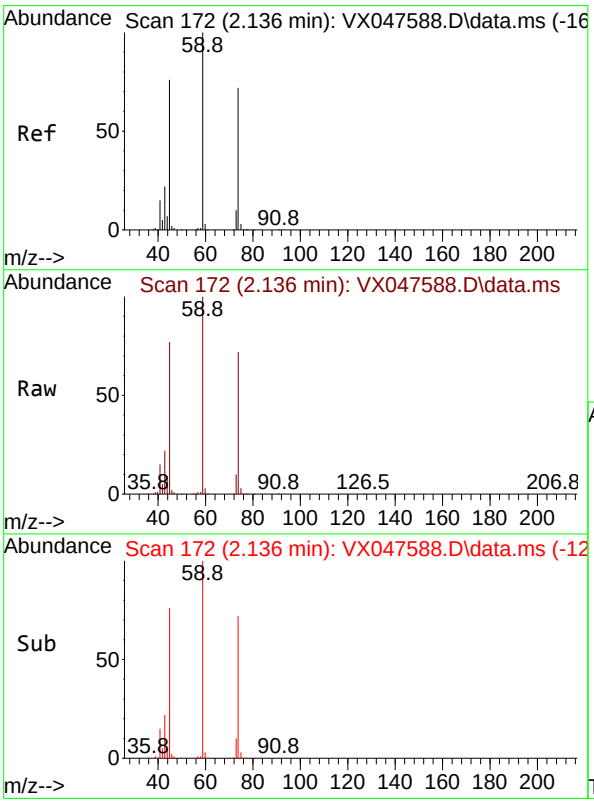
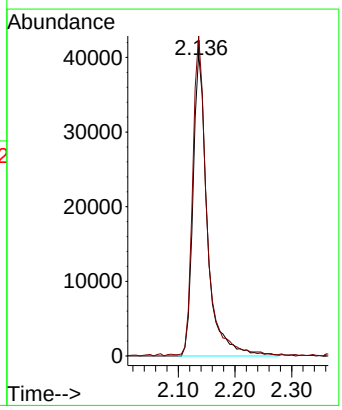
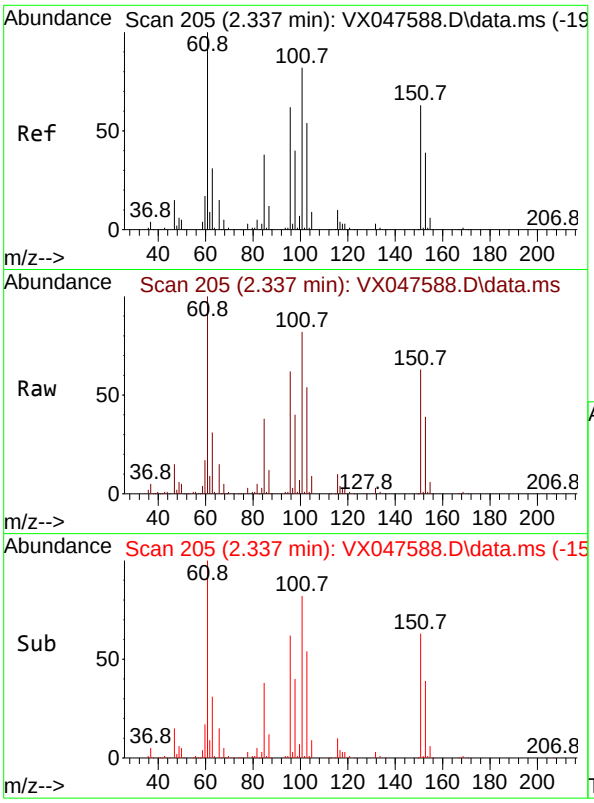


#8
Diethyl Ether
Concen: 50.510 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 74 Resp: 70874

Ion	Ratio	Lower	Upper
74	100		
45	104.5	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.445 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:101 Resp: 10117

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	74.2	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
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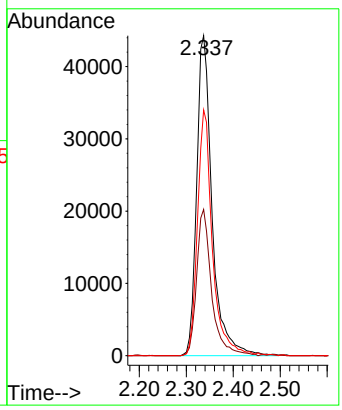
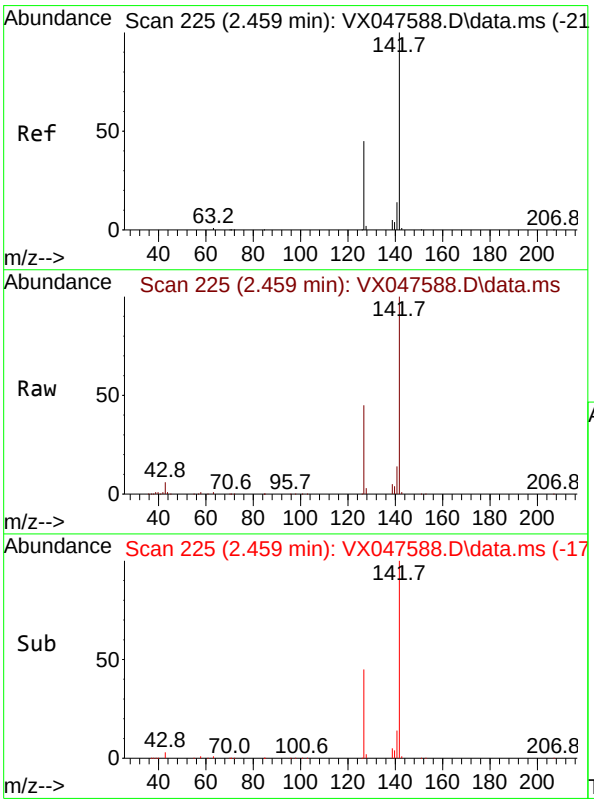
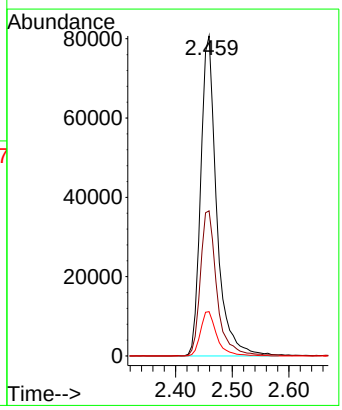


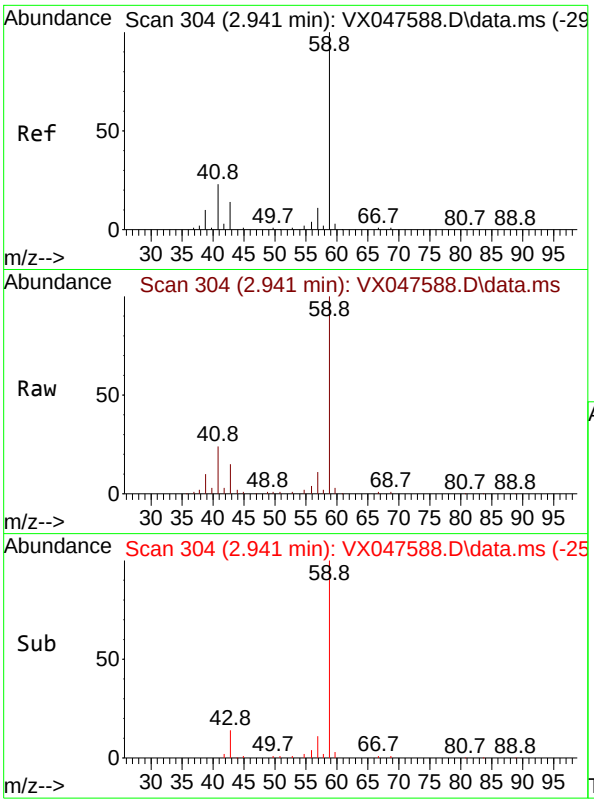


#10
Methyl Iodide
Concen: 50.525 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:142 Resp: 158046

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.2	11.4	17.0

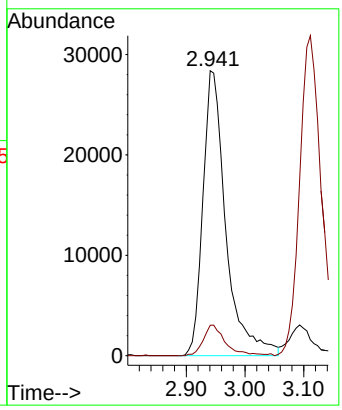




#11
Tert butyl alcohol
Concen: 251.232 ug/l
RT: 2.941 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 59 Resp: 7723

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
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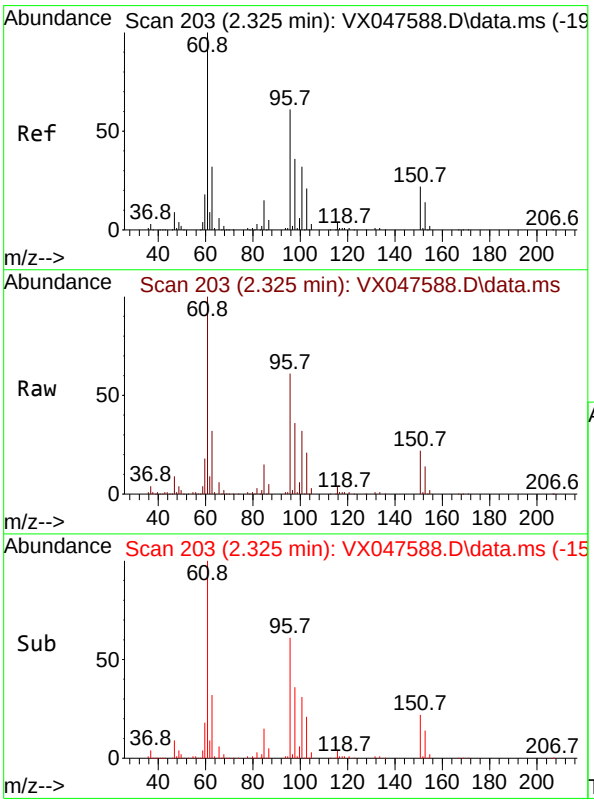
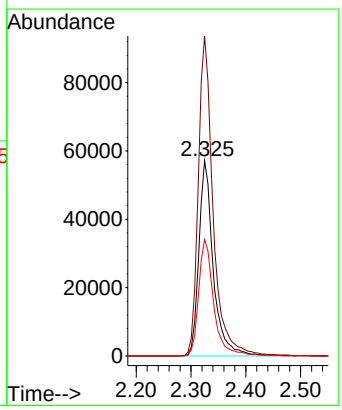
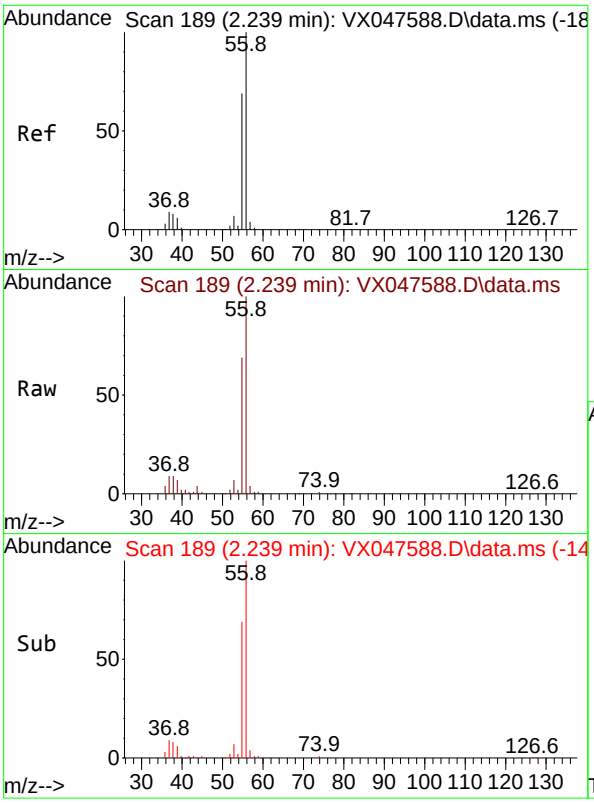


#12
1,1-Dichloroethene
Concen: 50.831 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 104724

Ion	Ratio	Lower	Upper
96	100		
61	163.8	131.0	196.6
98	59.6	47.7	71.5

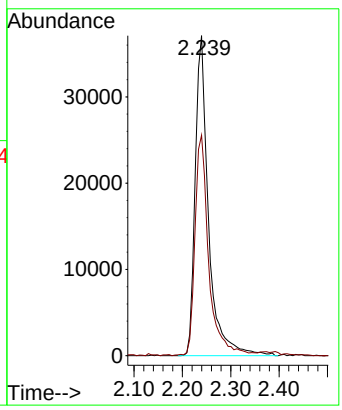




#13
Acrolein
Concen: 249.645 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 56 Resp: 7072

Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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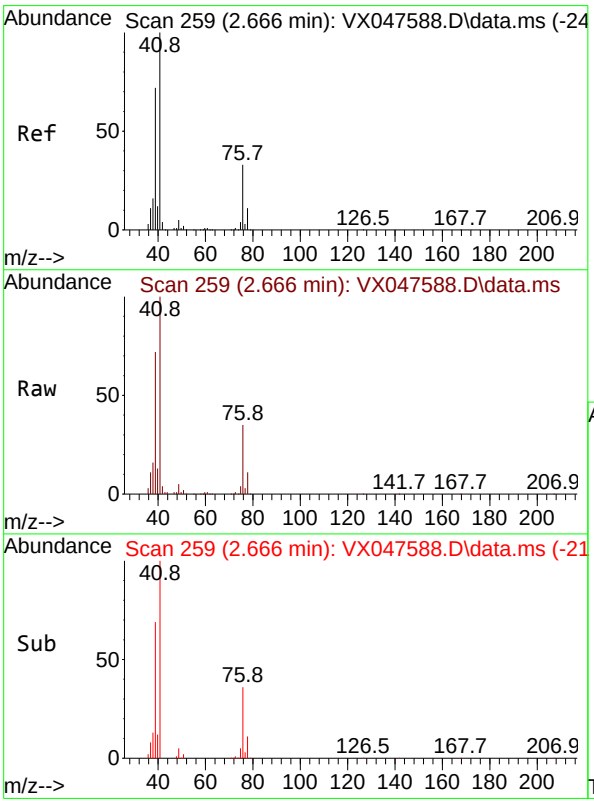
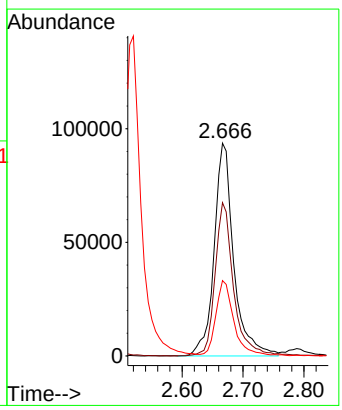
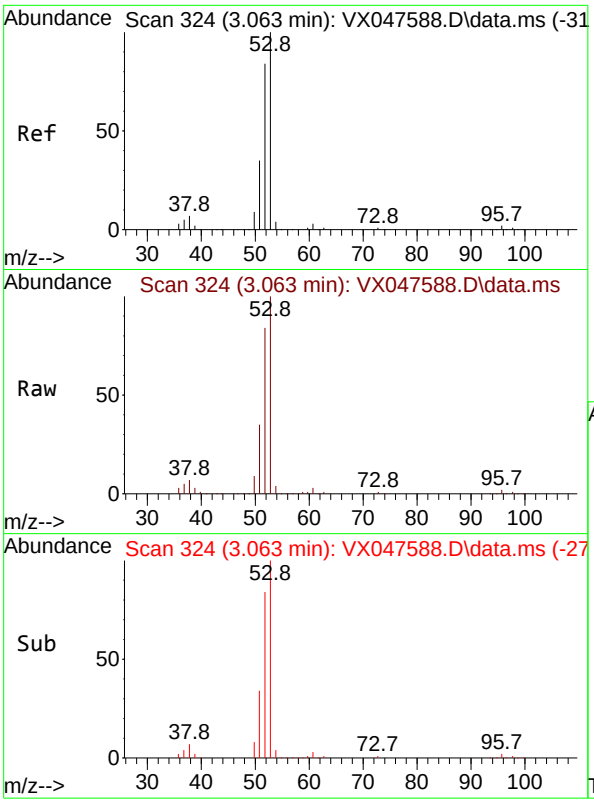


#14
Allyl chloride
Concen: 49.396 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 210001

Ion	Ratio	Lower	Upper
41	100		
39	68.4	54.7	82.1
76	32.1	25.7	38.5

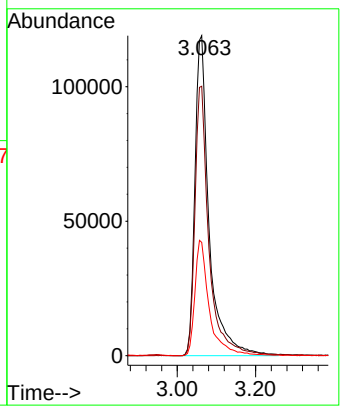




#15
Acrylonitrile
Concen: 264.027 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 53 Resp: 30064

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.4	99.6
51	36.9	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
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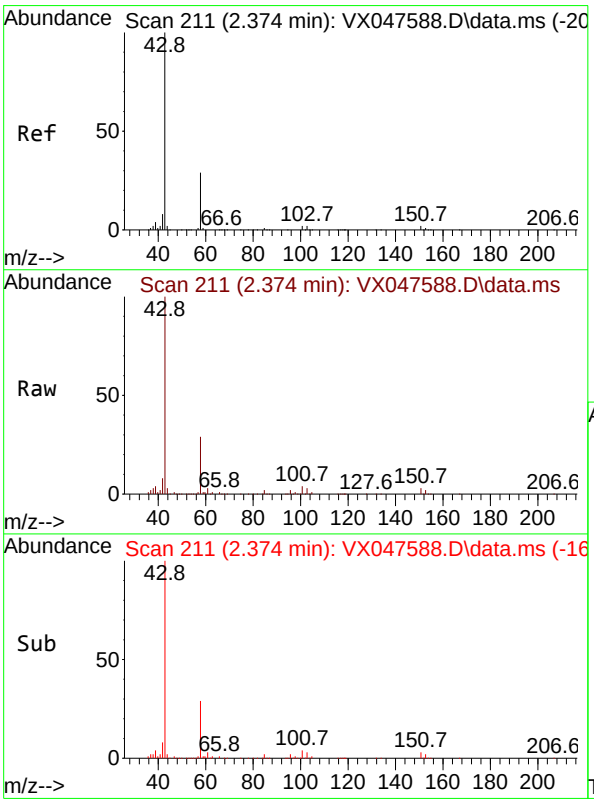
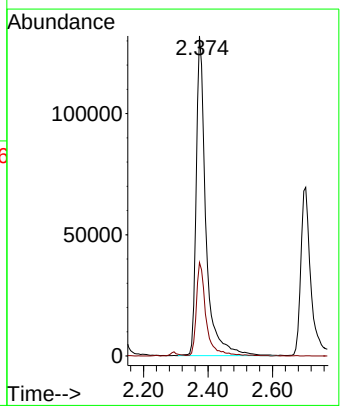
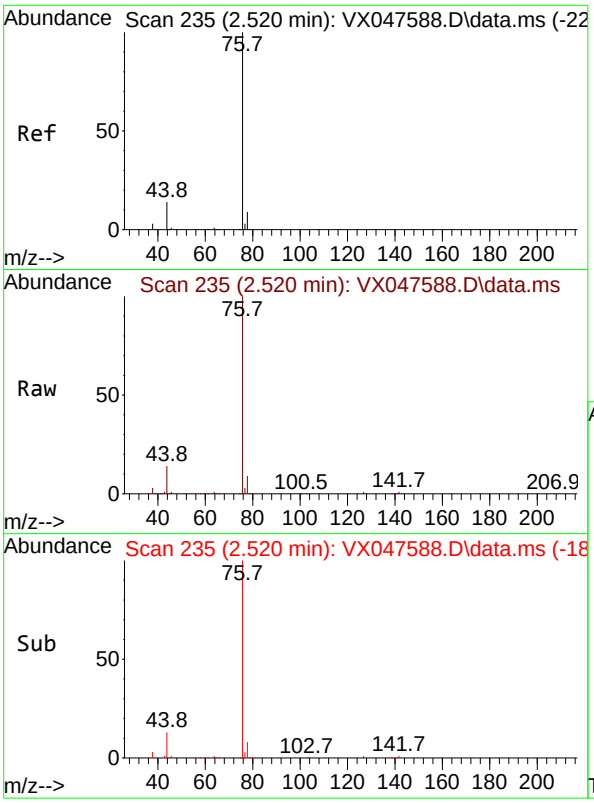


#16
Acetone
Concen: 229.193 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 275065

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.4	35.0

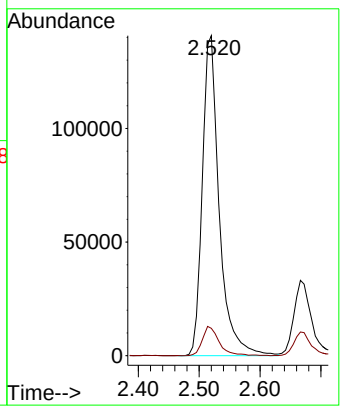




#17
Carbon Disulfide
Concen: 48.133 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 76 Resp: 27148

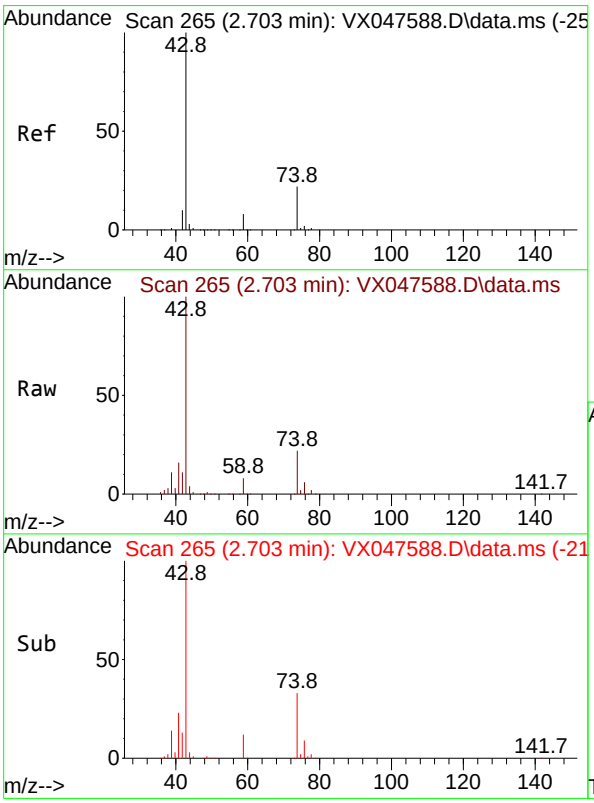
Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

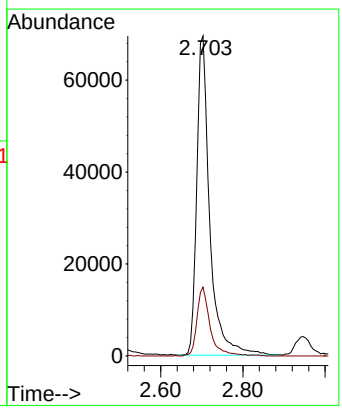
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

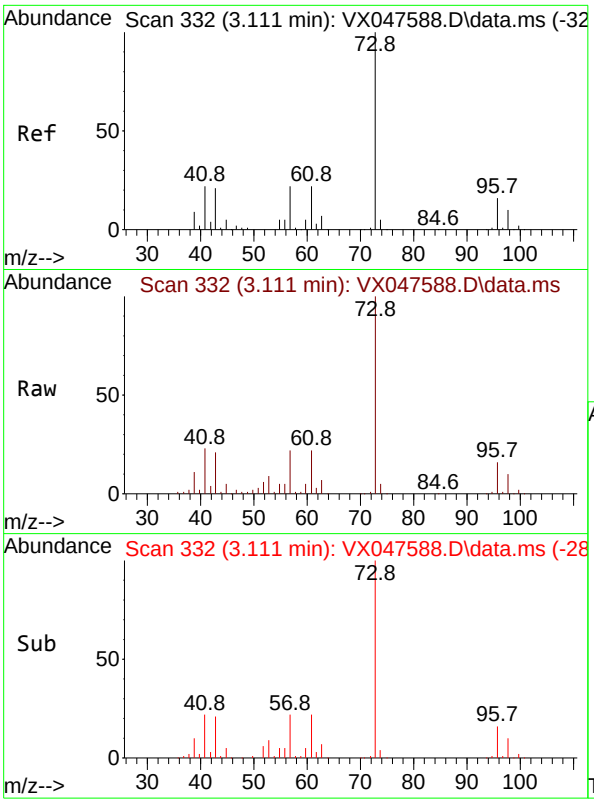


#18
Methyl Acetate
Concen: 56.897 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 151968

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 51.804 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 73 Resp: 38960

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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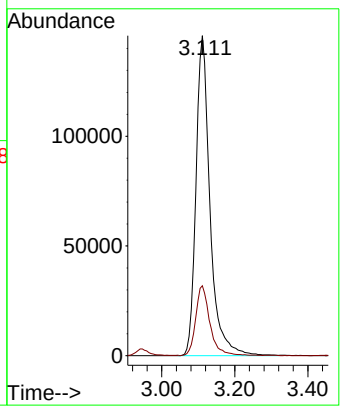
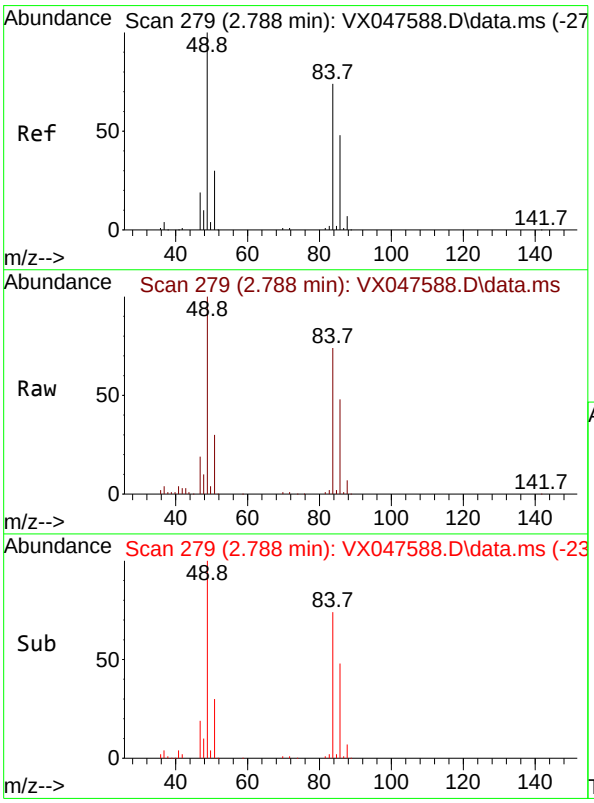
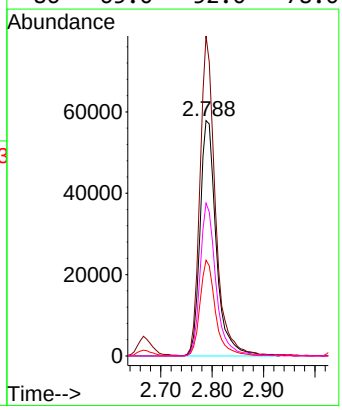


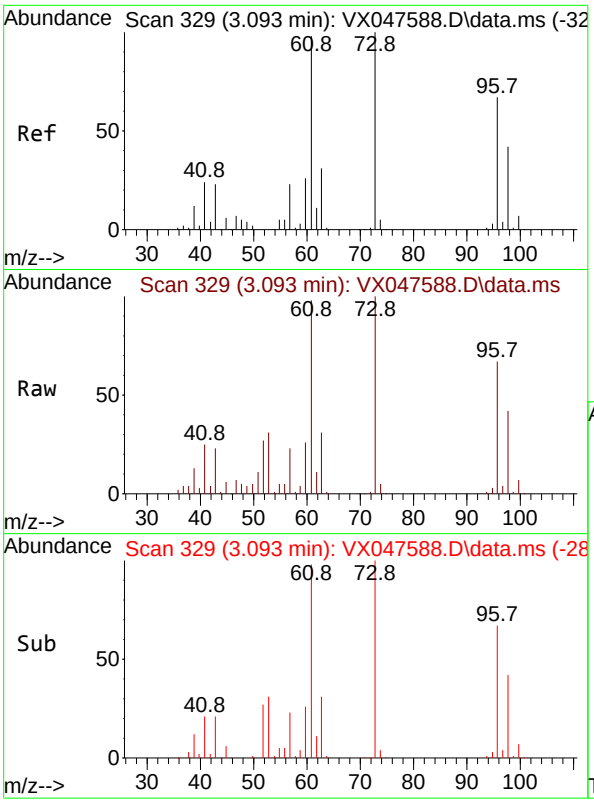


#20
Methylene Chloride
Concen: 49.798 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 84 Resp: 126506

Ion	Ratio	Lower	Upper
84	100		
49	135.7	108.6	162.8
51	40.7	32.6	48.8
86	65.0	52.0	78.0

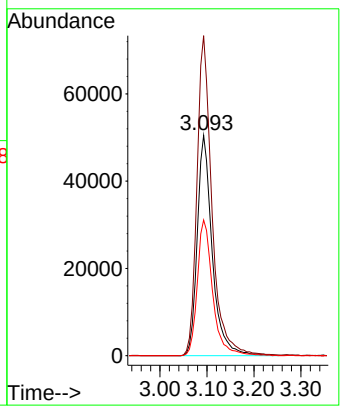




#21
trans-1,2-Dichloroethene
Concen: 50.743 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 11255

Ion	Ratio	Lower	Upper
96	100		
61	145.2	116.2	174.2
98	61.6	49.3	73.9



Instrument :
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ClientSampleId :
VSTDICCC050

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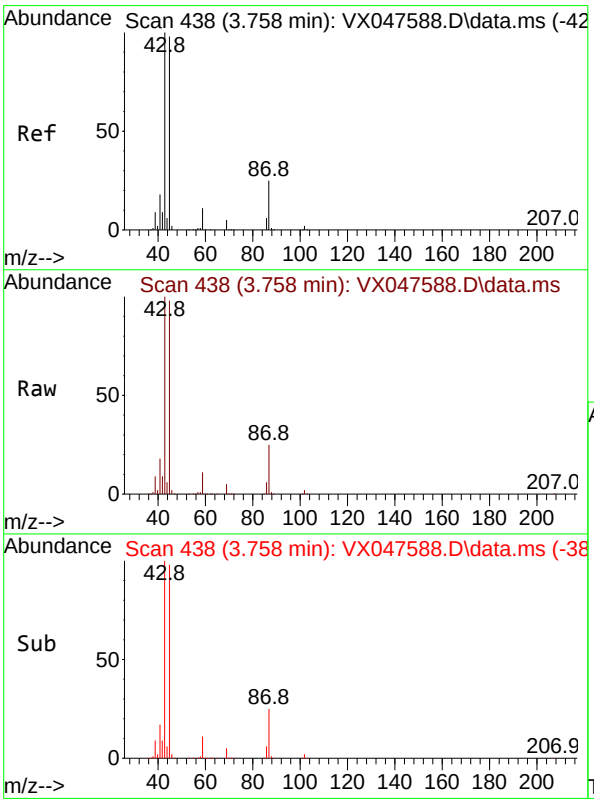
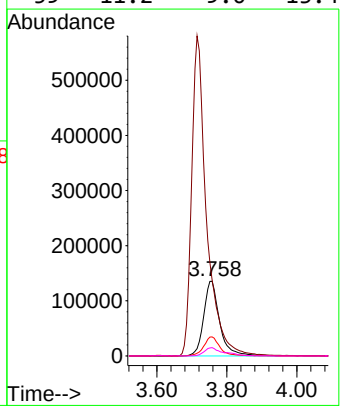
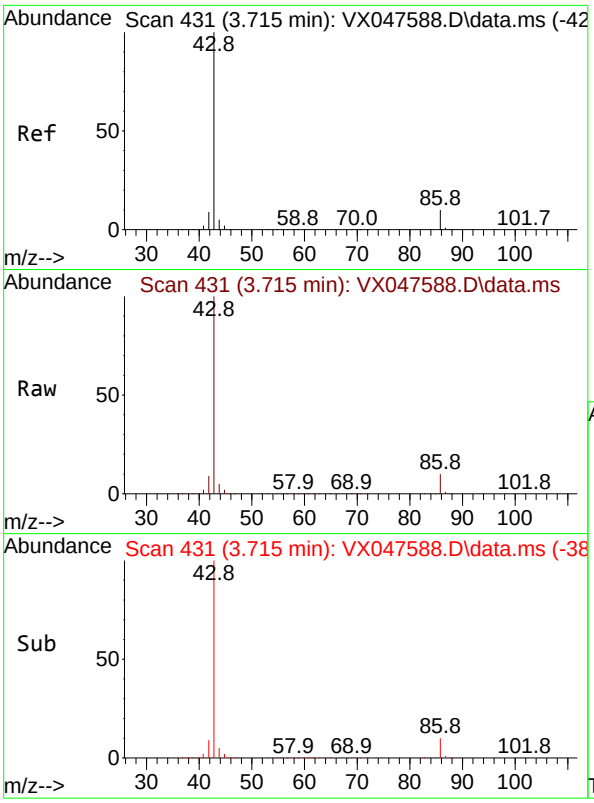


#22
Diisopropyl ether
Concen: 52.131 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 45 Resp: 429524

Ion	Ratio	Lower	Upper
45	100		
43	101.2	81.0	121.4
87	25.4	20.3	30.5
59	11.2	9.0	13.4

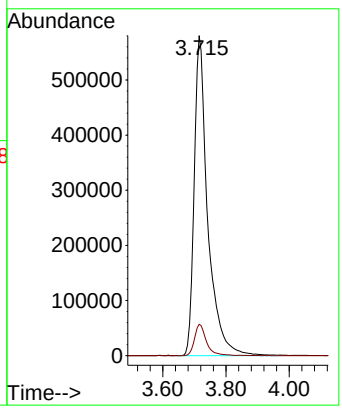




#23
Vinyl Acetate
Concen: 261.852 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 172673

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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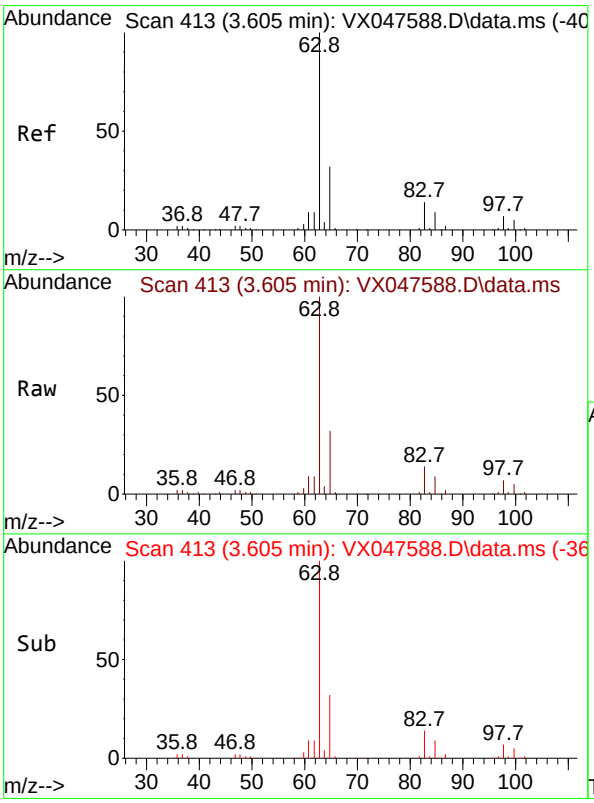
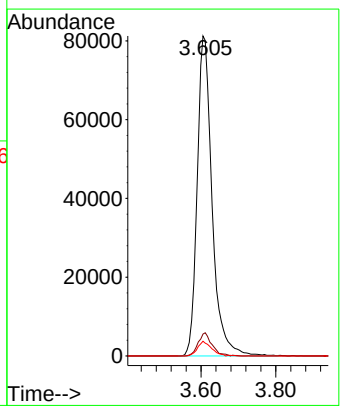
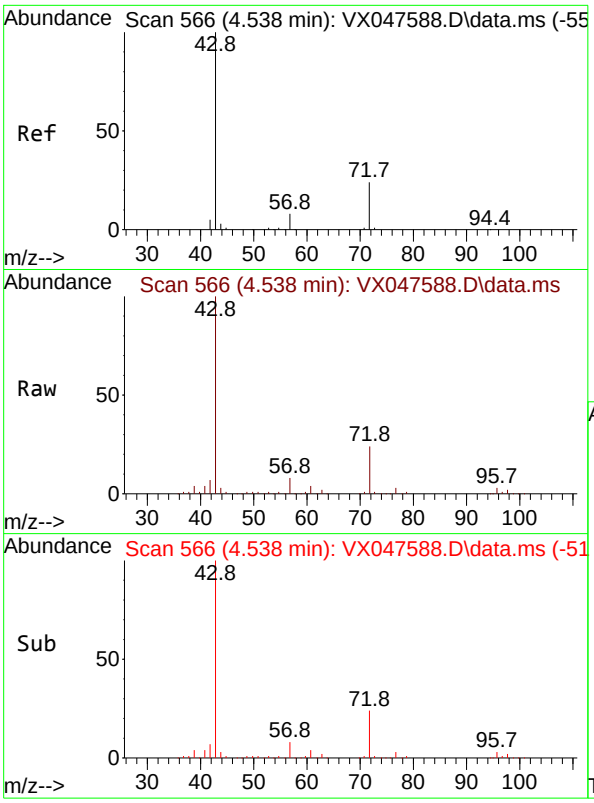


#24
1,1-Dichloroethane
Concen: 51.338 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 224824

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.8	11.2
100	4.6	2.3	6.9





#25
2-Butanone
Concen: 254.060 ug/l
RT: 4.538 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 38033

Ion	Ratio	Lower	Upper
43	100		
72	25.1	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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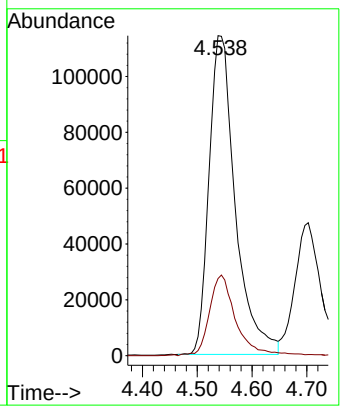
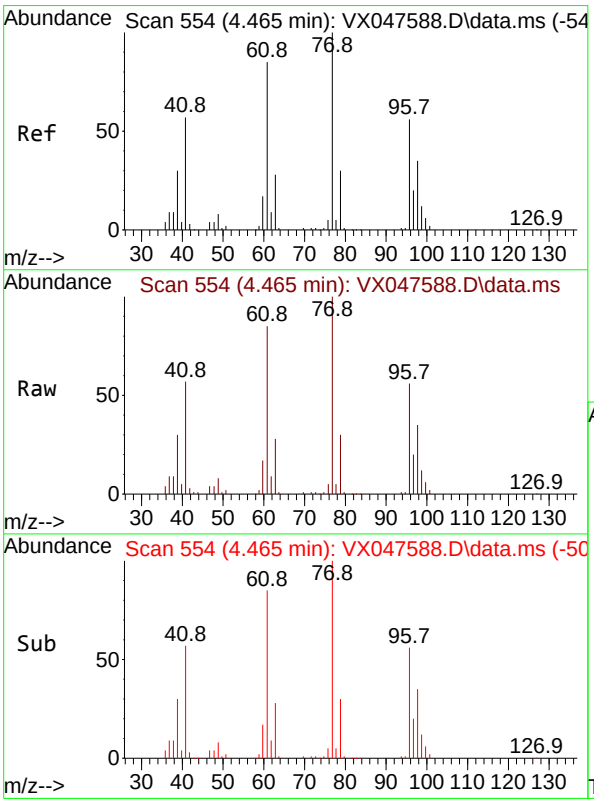
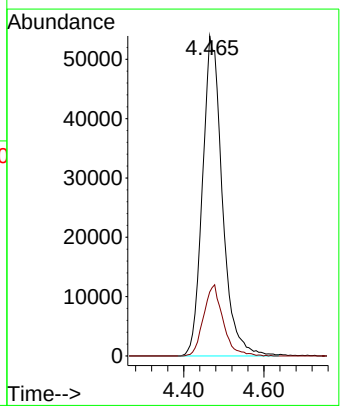


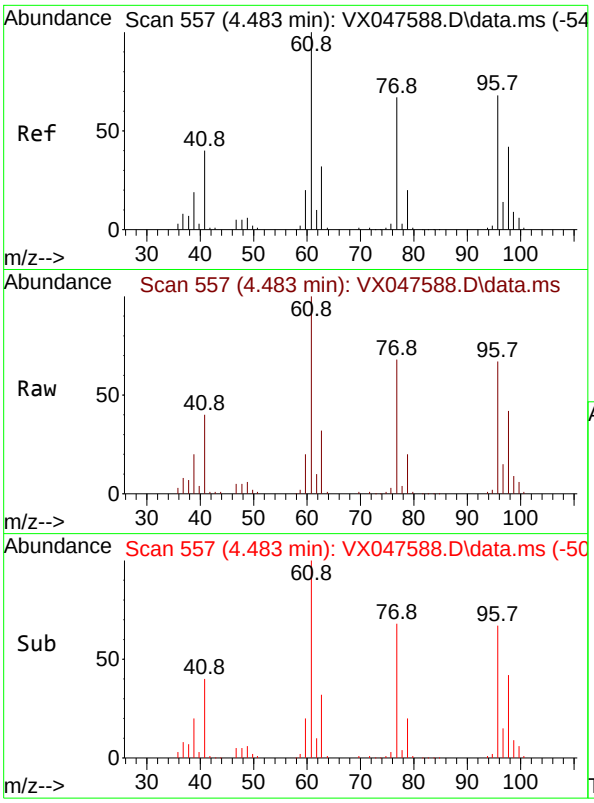


#26
2,2-Dichloropropane
Concen: 50.888 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 77 Resp: 185247

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.9	32.7

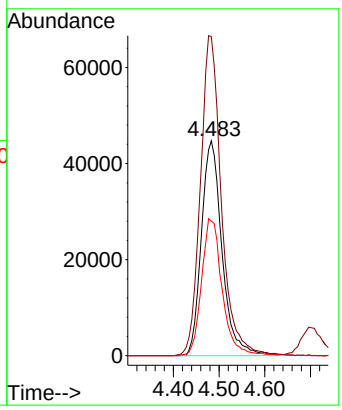




#27
cis-1,2-Dichloroethene
Concen: 51.576 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 14010

Ion	Ratio	Lower	Upper
96	100		
61	151.6	0.0	303.2
98	63.9	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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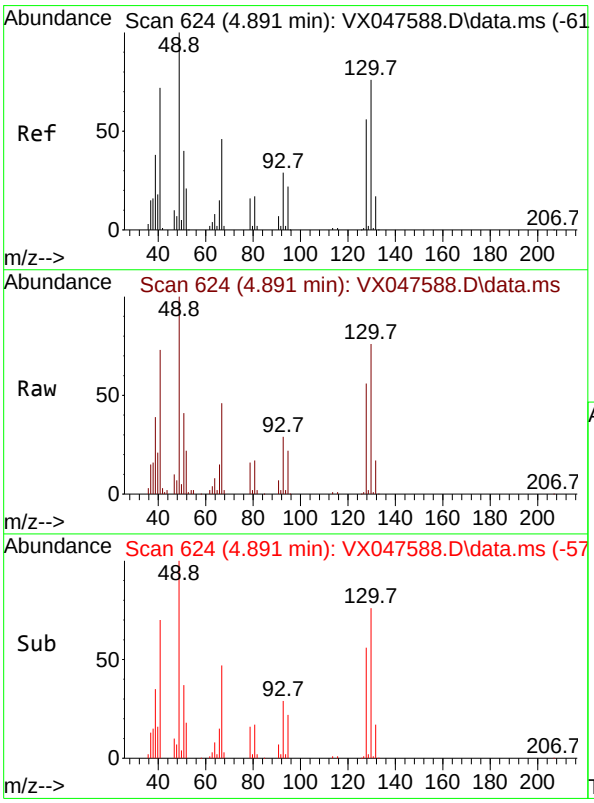
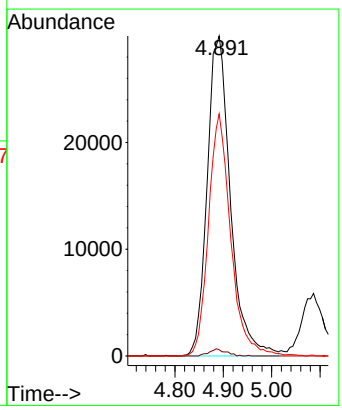
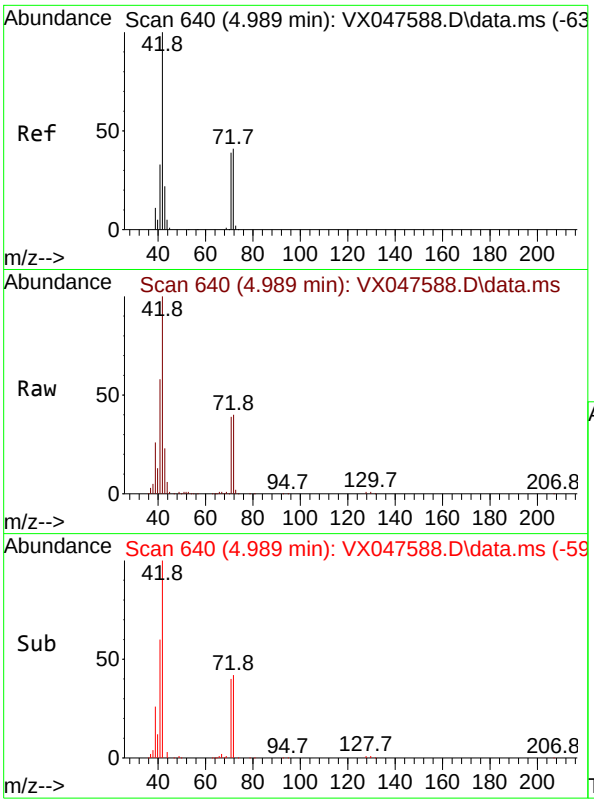


#28
Bromochloromethane
Concen: 52.301 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 49 Resp: 99991

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	72.3	57.8	86.8

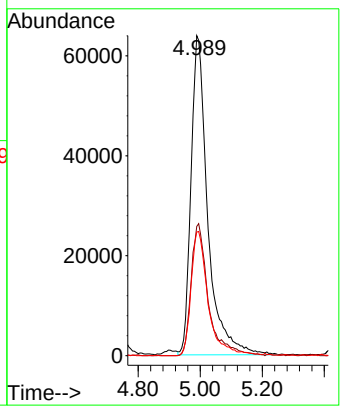




#29
Tetrahydrofuran
Concen: 265.026 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 42 Resp: 23867

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	39.9	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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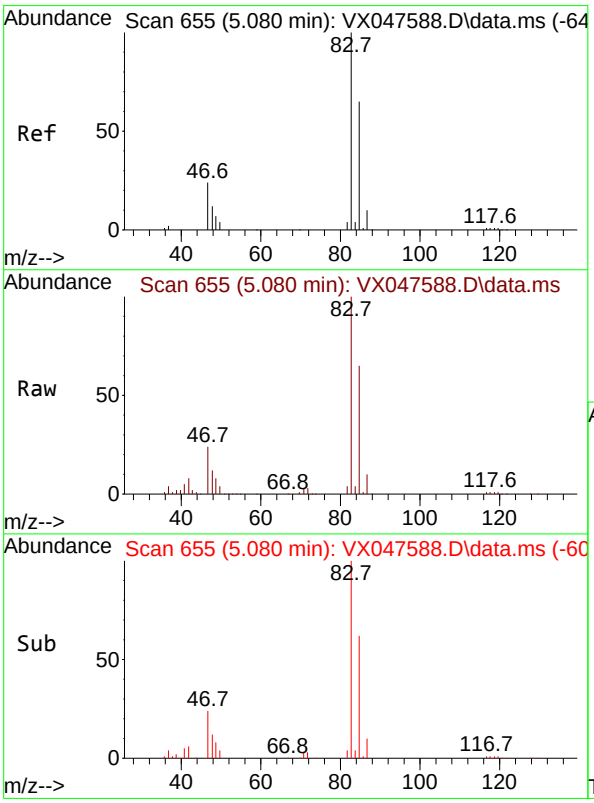
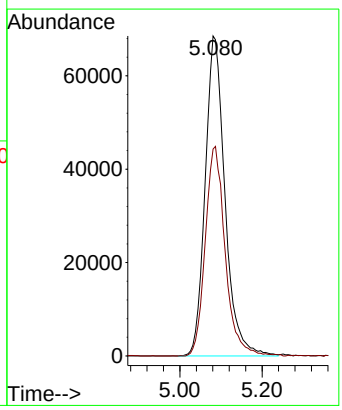
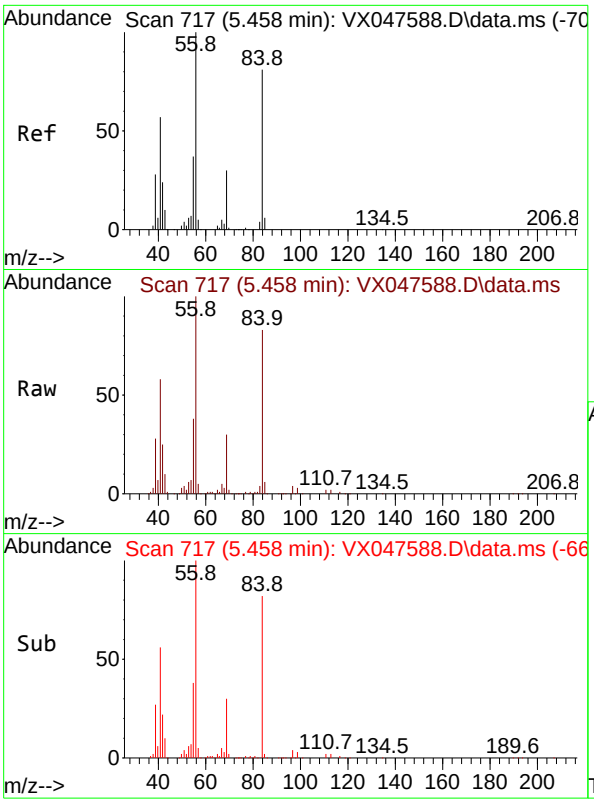


#30
Chloroform
Concen: 51.844 ug/l
RT: 5.080 min Scan# 655
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 229430

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6

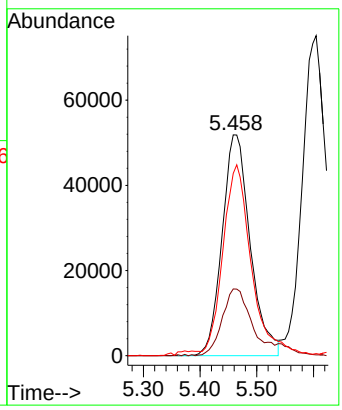




#31
Cyclohexane
Concen: 48.952 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 56 Resp: 17854

Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.8	35.8
84	80.8	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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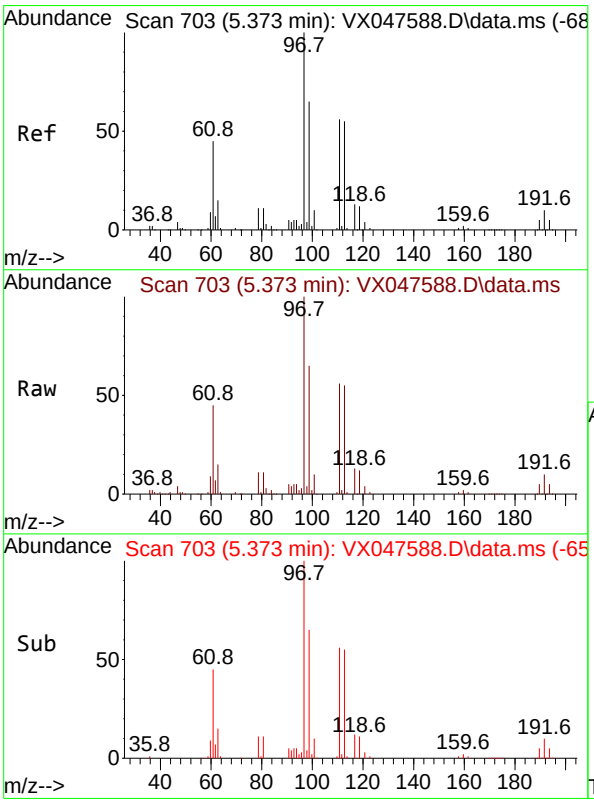
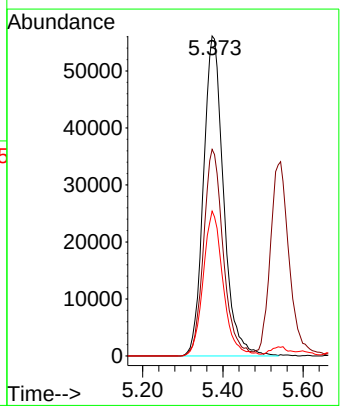
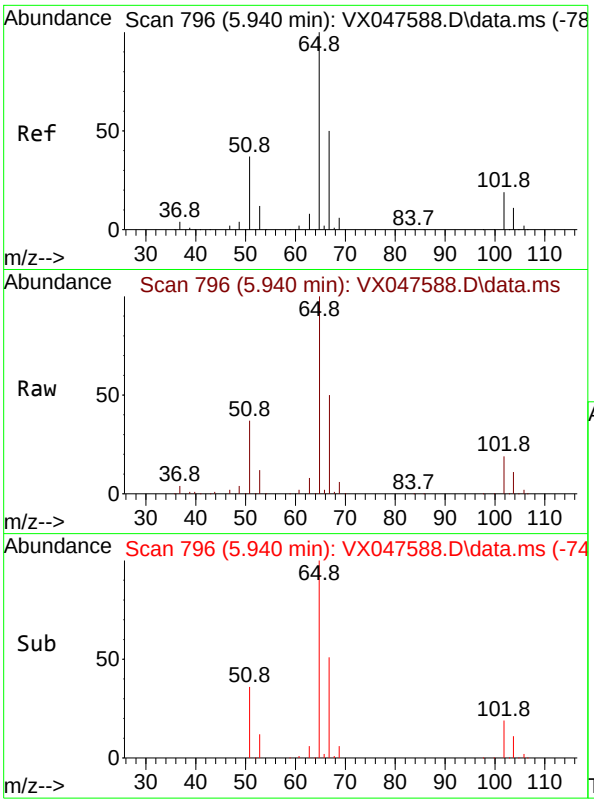


#32
1,1,1-Trichloroethane
Concen: 52.058 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 97 Resp: 195407

Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.6	76.0
61	44.8	35.8	53.8

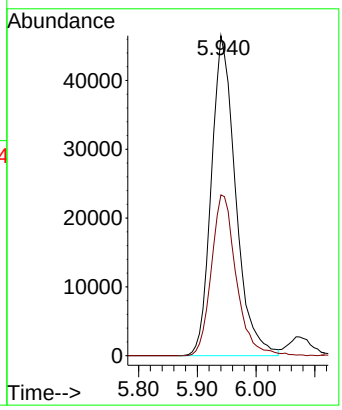




#33
1,2-Dichloroethane-d4
Concen: 48.404 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 65 Resp: 13360

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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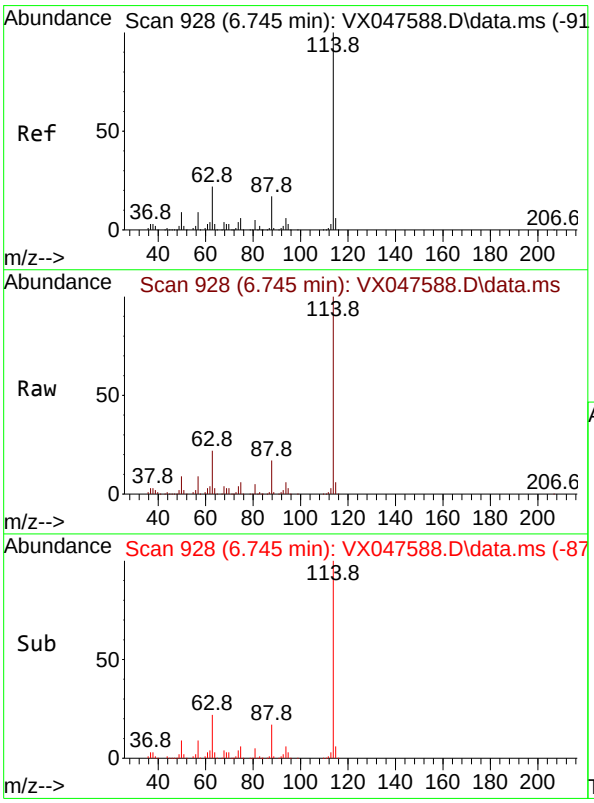
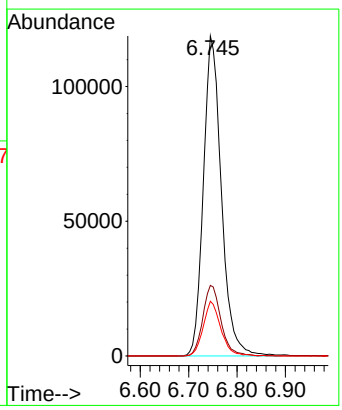
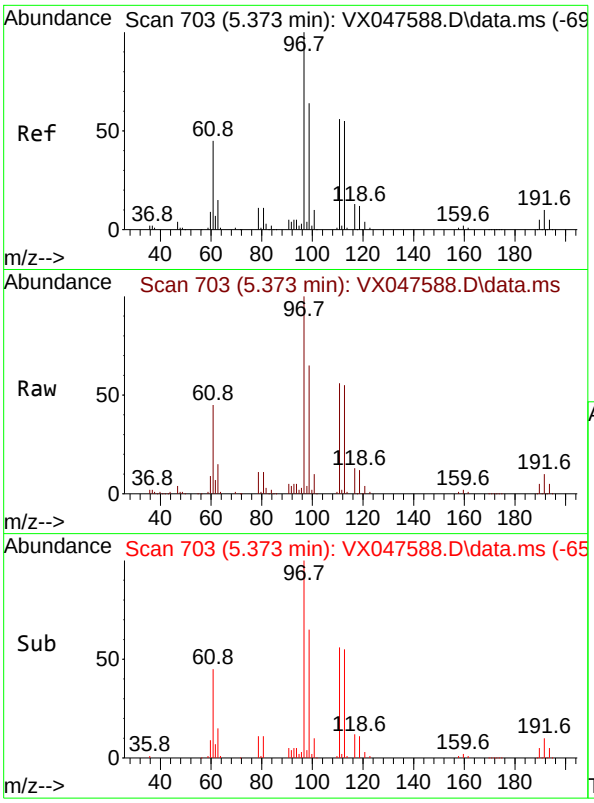


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:114 Resp: 307383

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	17.1	0.0	34.2

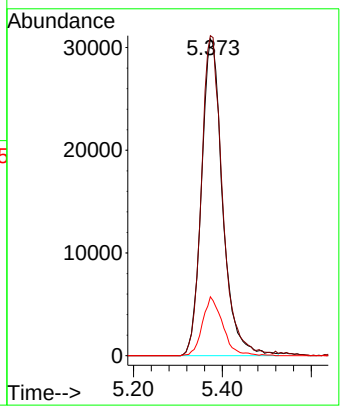




#35
Dibromofluoromethane
Concen: 49.298 ug/l
RT: 5.373 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:113 Resp: 10162

Ion	Ratio	Lower	Upper
113	100		
111	101.1	80.9	121.3
192	17.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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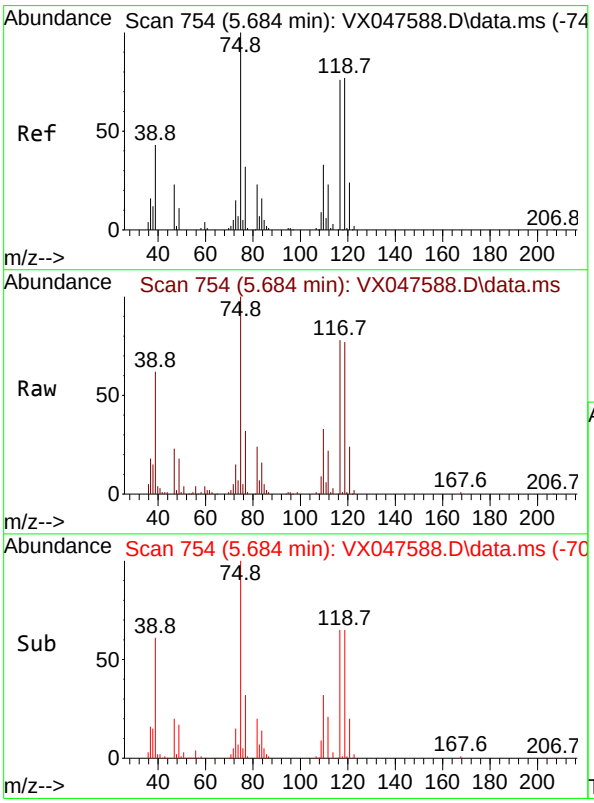
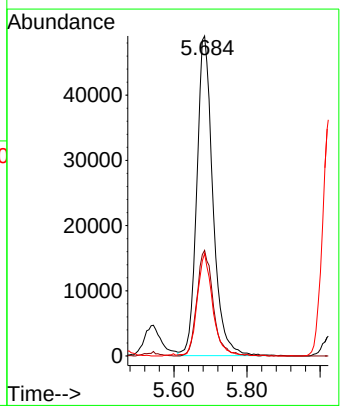
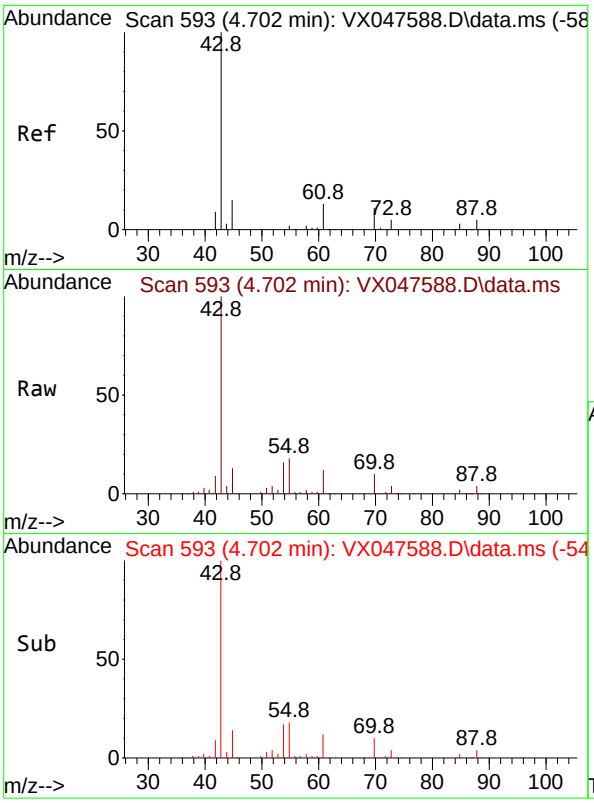


#36
1,1-Dichloropropene
Concen: 49.729 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 149800

Ion	Ratio	Lower	Upper
75	100		
110	33.4	16.7	50.1
77	30.4	24.3	36.5

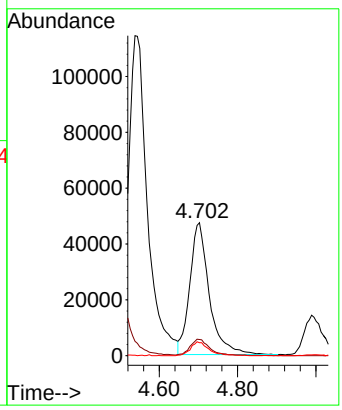




#37
Ethyl Acetate
Concen: 50.687 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 16348

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.9	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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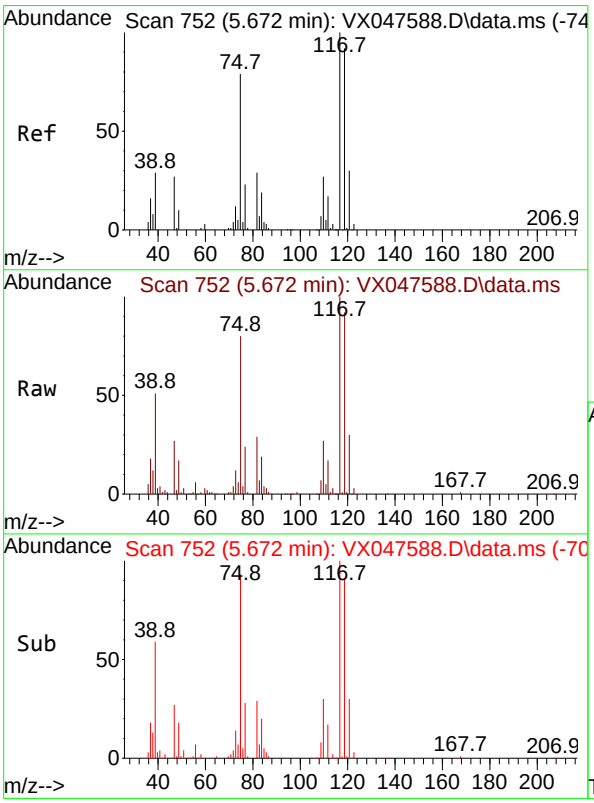
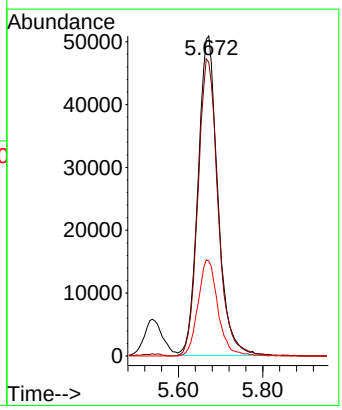
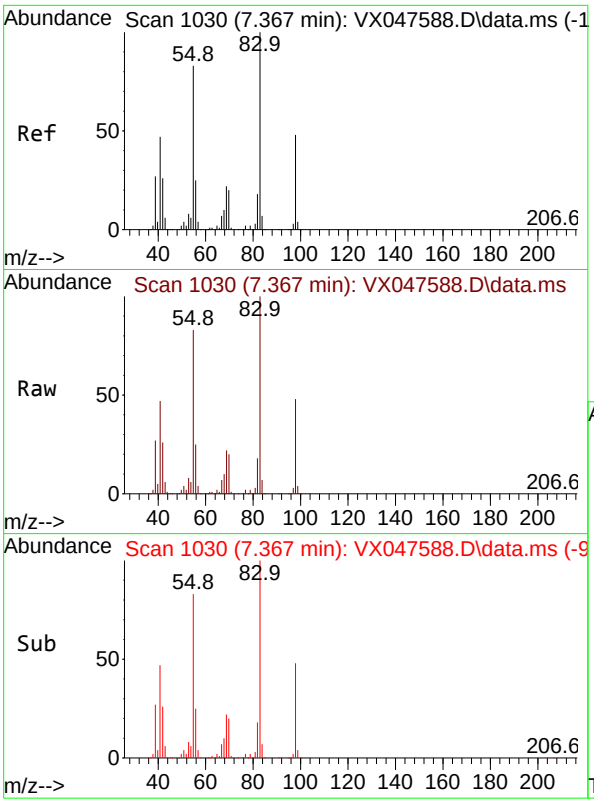


#38
Carbon Tetrachloride
Concen: 50.637 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 165730

Ion	Ratio	Lower	Upper
117	100		
119	91.8	73.4	110.2
121	29.7	23.8	35.6

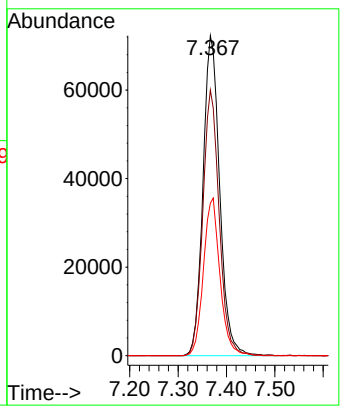




#39
Methylcyclohexane
Concen: 50.773 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 17361

Ion	Ratio	Lower	Upper
83	100		
55	83.0	66.4	99.6
98	47.6	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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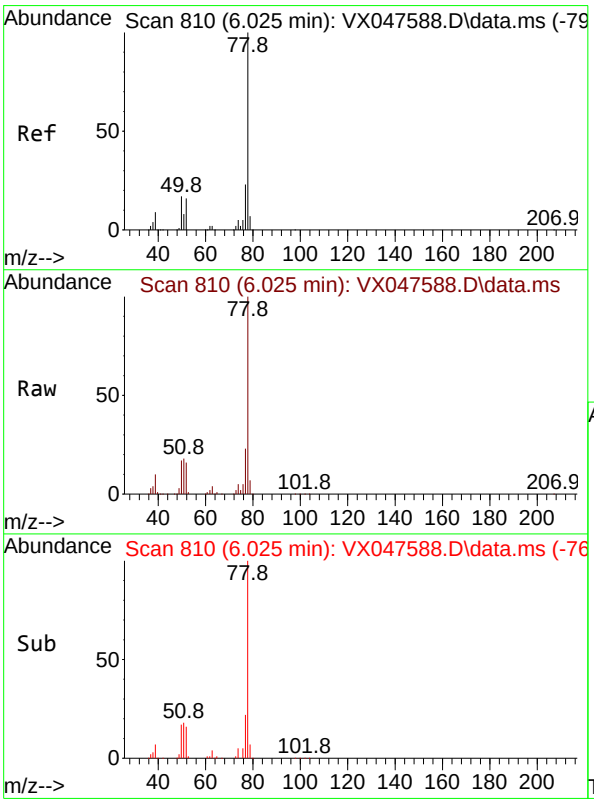
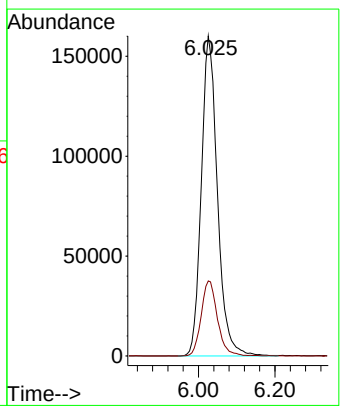
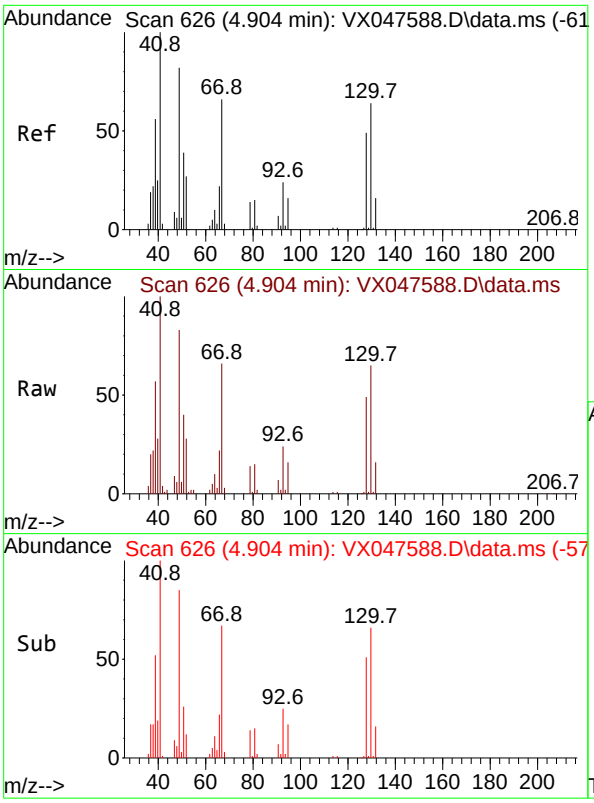


#40
Benzene
Concen: 51.167 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 78 Resp: 468136

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

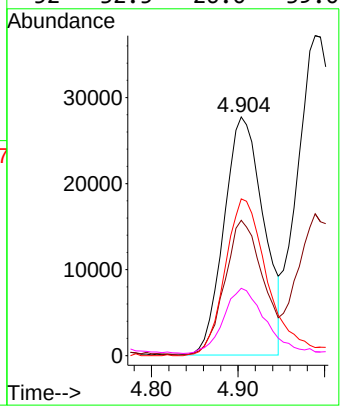




#41
Methacrylonitrile
Concen: 52.707 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 8776

Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.3	64.9
67	73.2	58.6	87.8
52	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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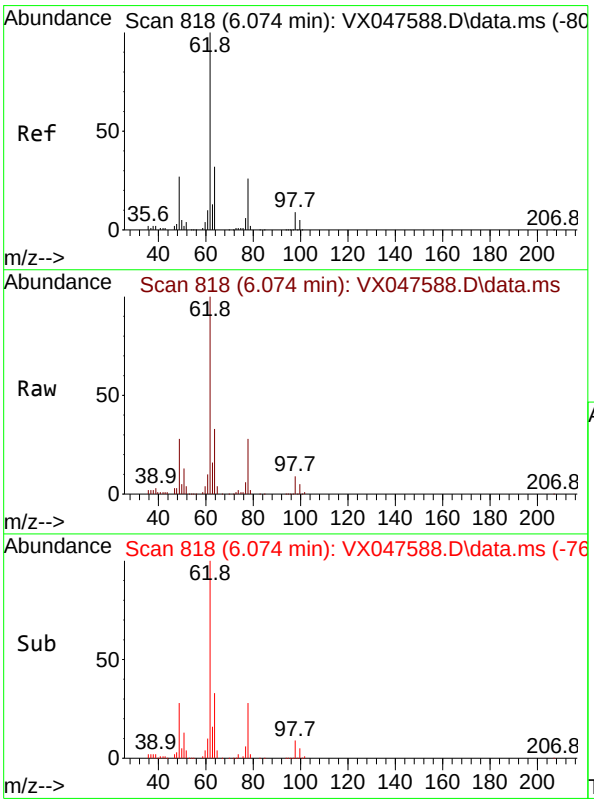
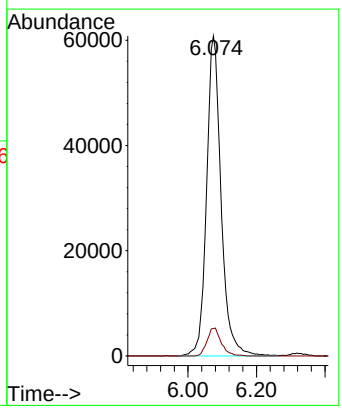
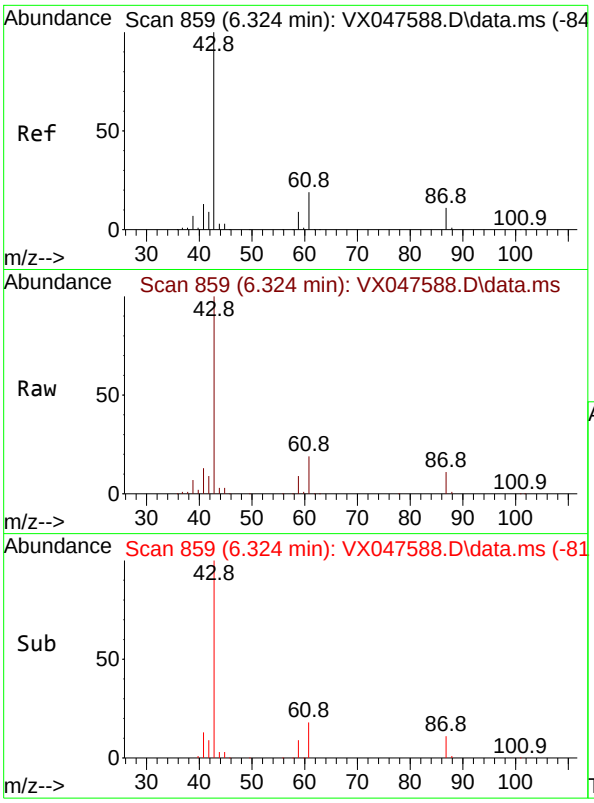


#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 179037

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0

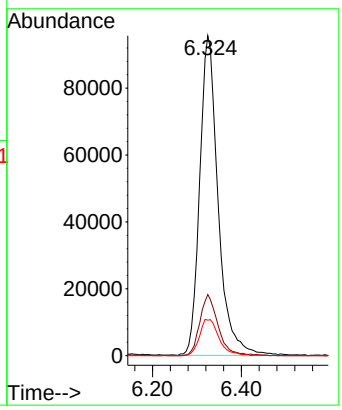




#43
Isopropyl Acetate
Concen: 52.096 ug/l
RT: 6.324 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 27557

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.0	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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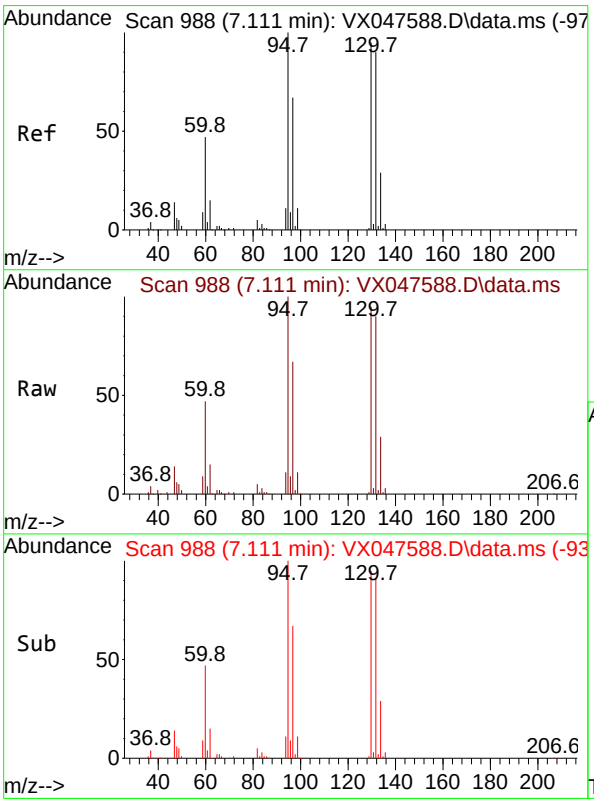
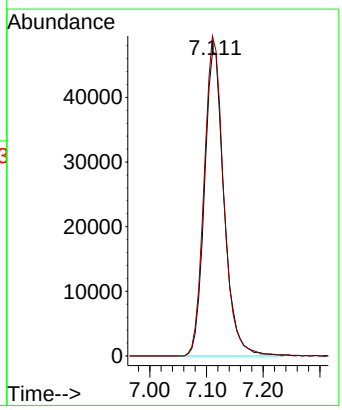
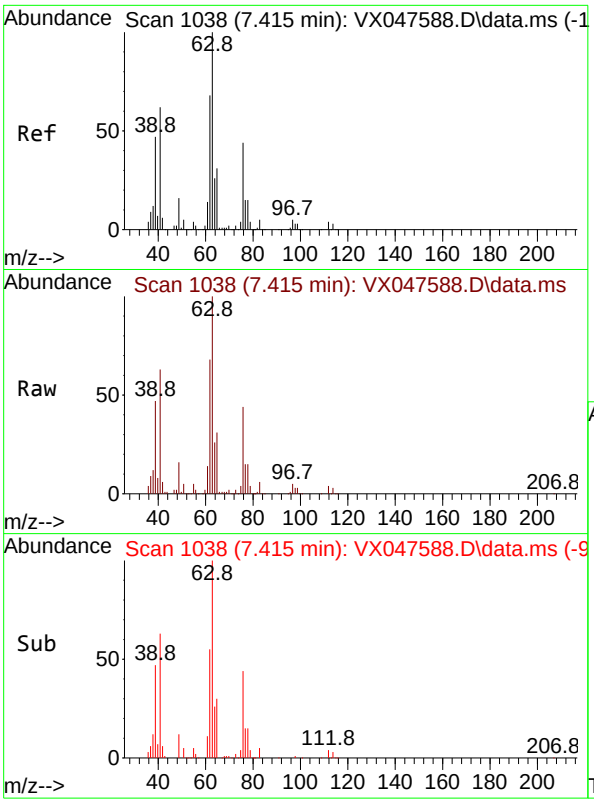


#44
Trichloroethene
Concen: 51.463 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:130 Resp: 113832

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	210.8

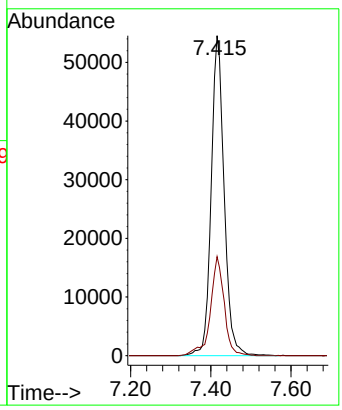




#45
1,2-Dichloropropane
Concen: 52.122 ug/l
RT: 7.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 12210

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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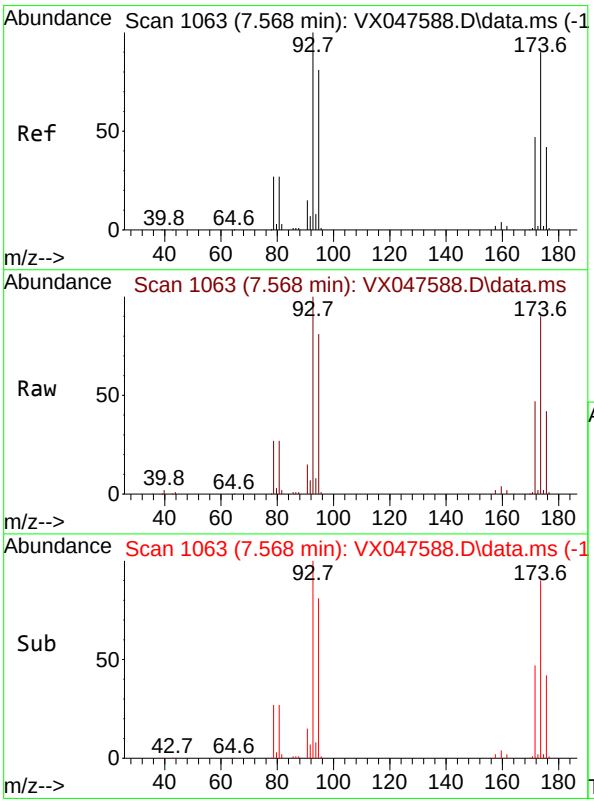
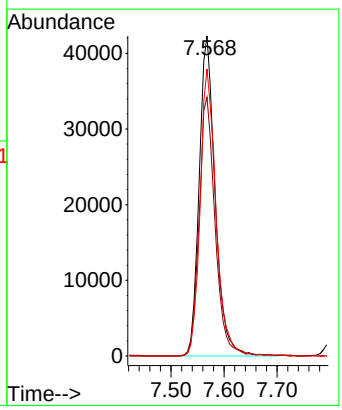
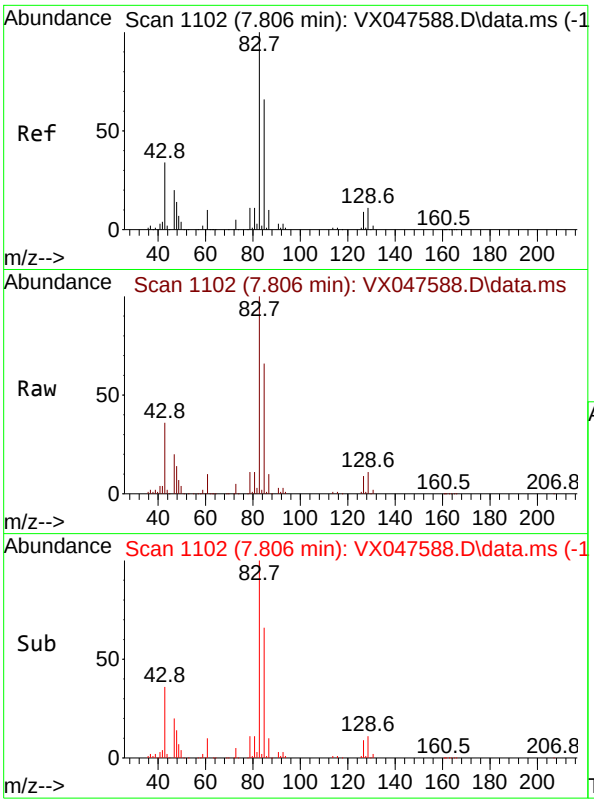


#46
Dibromomethane
Concen: 51.914 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 93 Resp: 88505

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.0	97.6
174	89.5	71.6	107.4

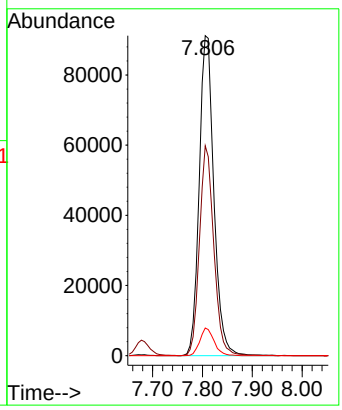




#47
Bromodichloromethane
Concen: 53.025 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 18654

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7
127	8.6	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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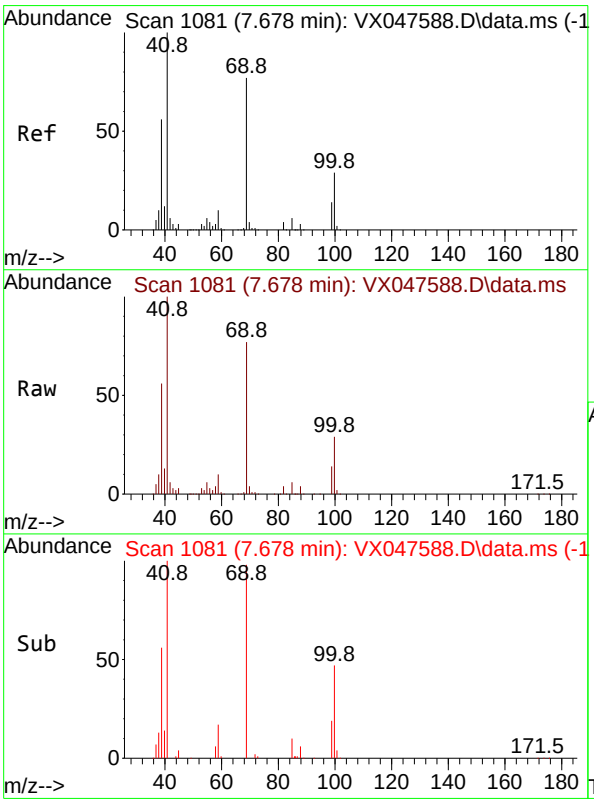
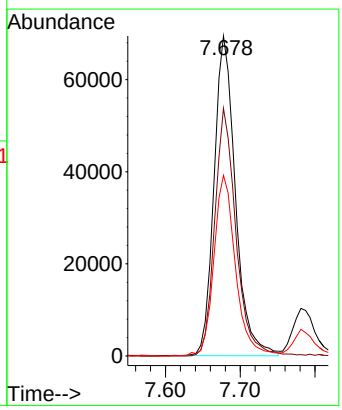
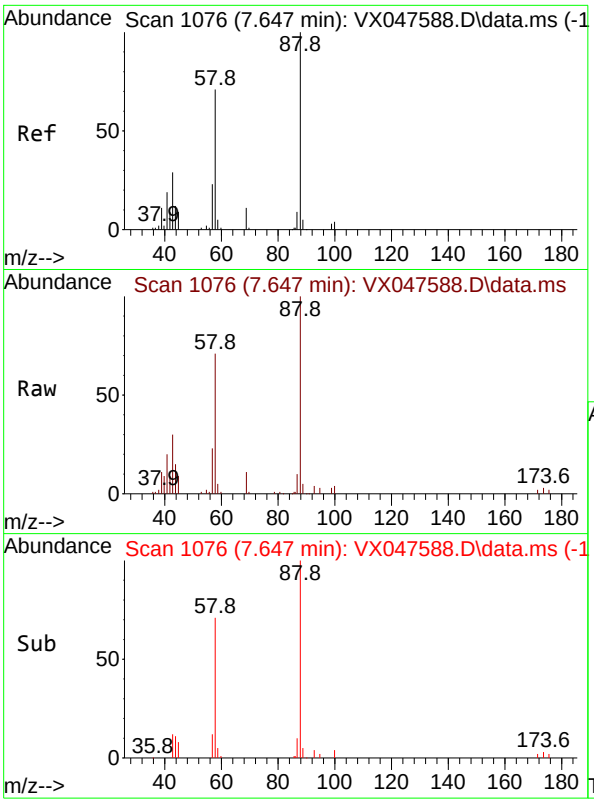


#48
Methyl methacrylate
Concen: 52.438 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 138167

Ion	Ratio	Lower	Upper
41	100		
69	76.8	61.4	92.2
39	57.2	45.8	68.6

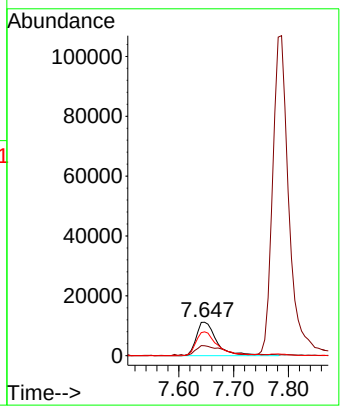




#49
1,4-Dioxane
Concen: 1107.698 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 88 Resp: 2949

Ion	Ratio	Lower	Upper
88	100		
43	37.7	30.2	45.2
58	74.4	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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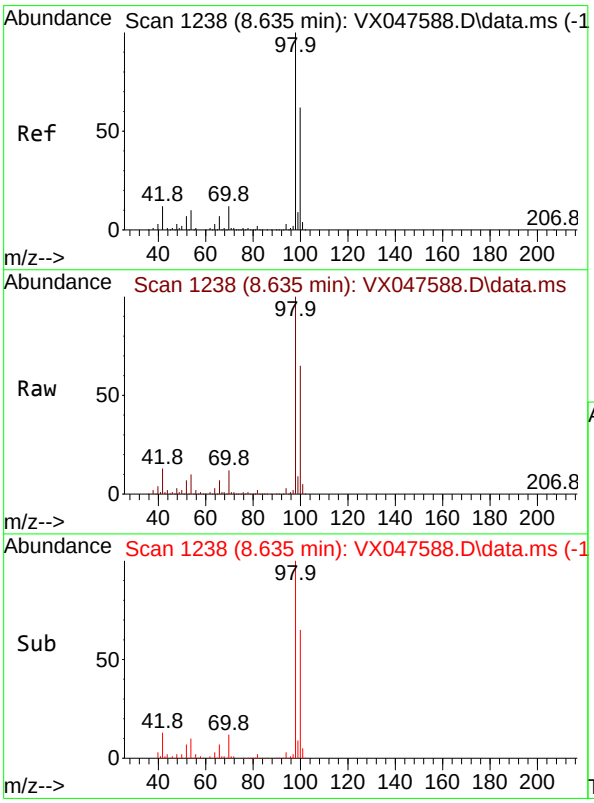
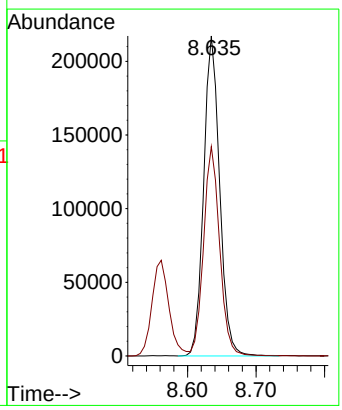
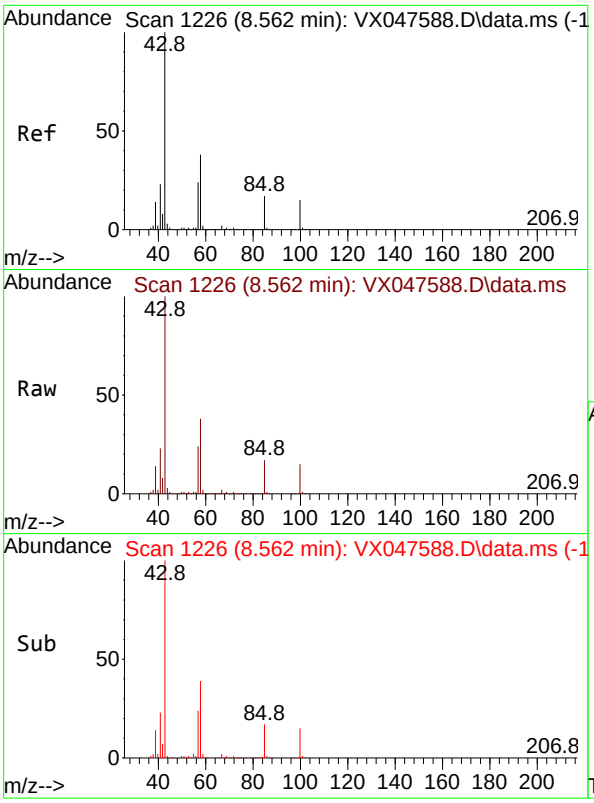


#50
Toluene-d8
Concen: 49.428 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 98 Resp: 352578

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4

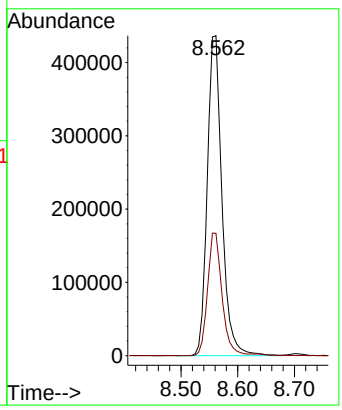




#51
4-Methyl-2-Pentanone
Concen: 267.650 ug/l
RT: 8.562 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 78497

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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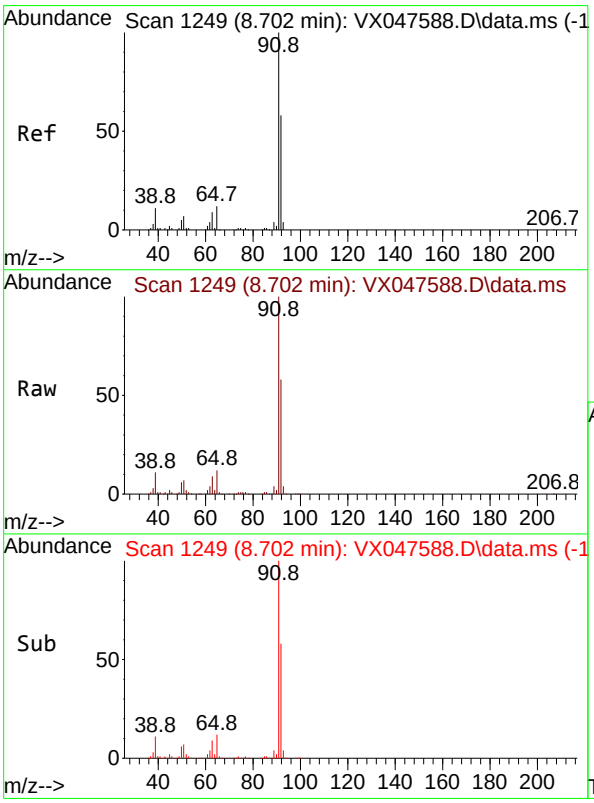
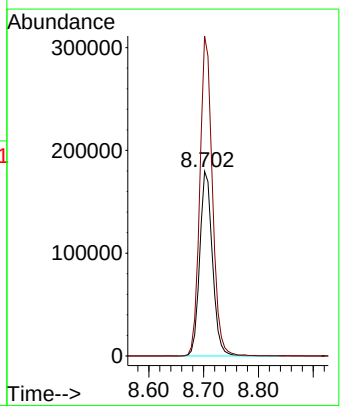
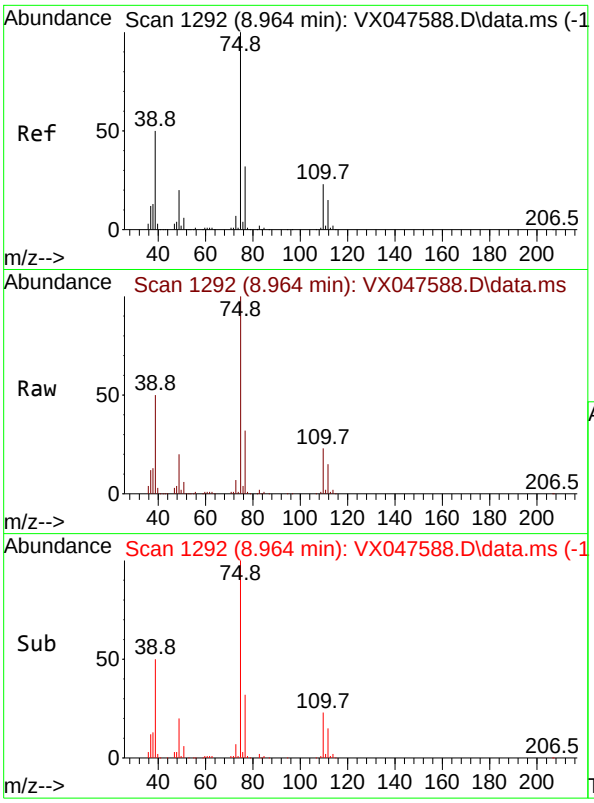


#52
Toluene
Concen: 51.244 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 92 Resp: 288853

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.1	205.7

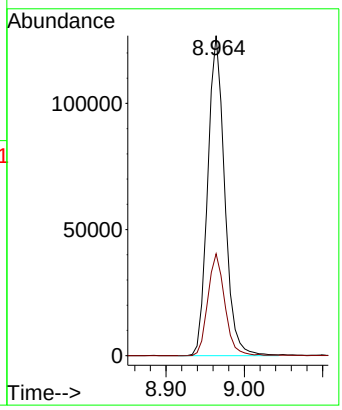




#53
t-1,3-Dichloropropene
Concen: 53.027 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 19028

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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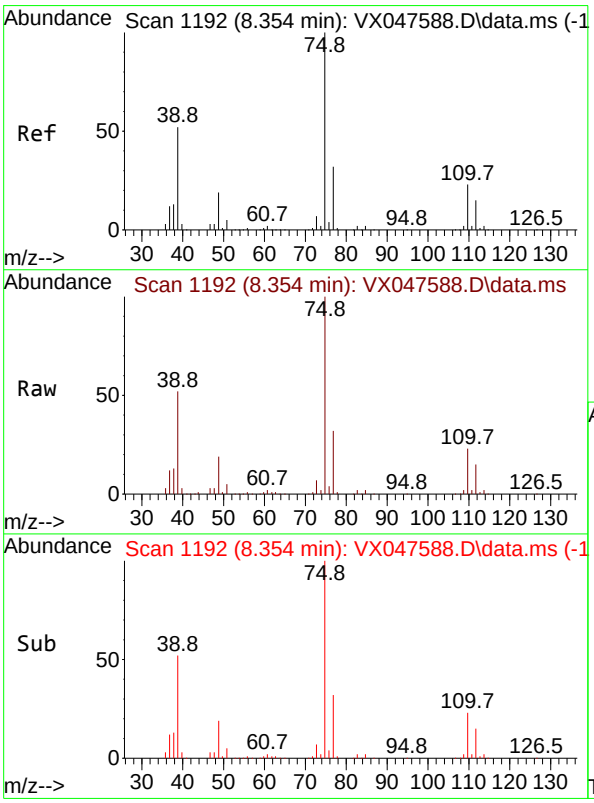
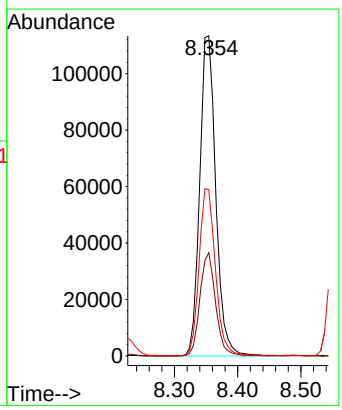
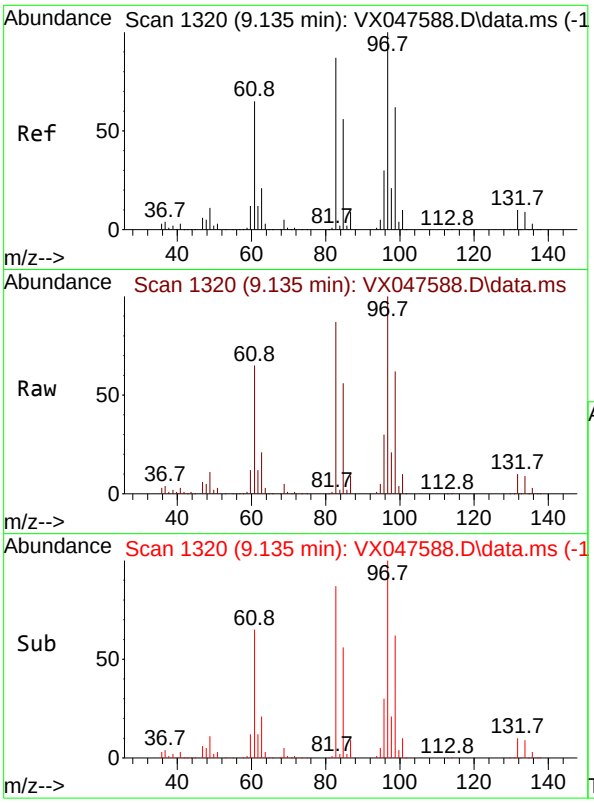


#54
cis-1,3-Dichloropropene
Concen: 52.369 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 200859

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.8	38.6
39	51.8	41.4	62.2

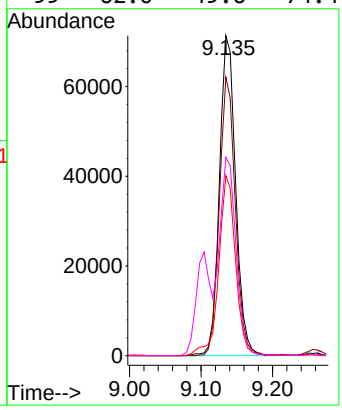




#55
1,1,2-Trichloroethane
Concen: 51.915 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 97 Resp: 11283

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.6	104.4
85	56.3	45.0	67.6
99	62.0	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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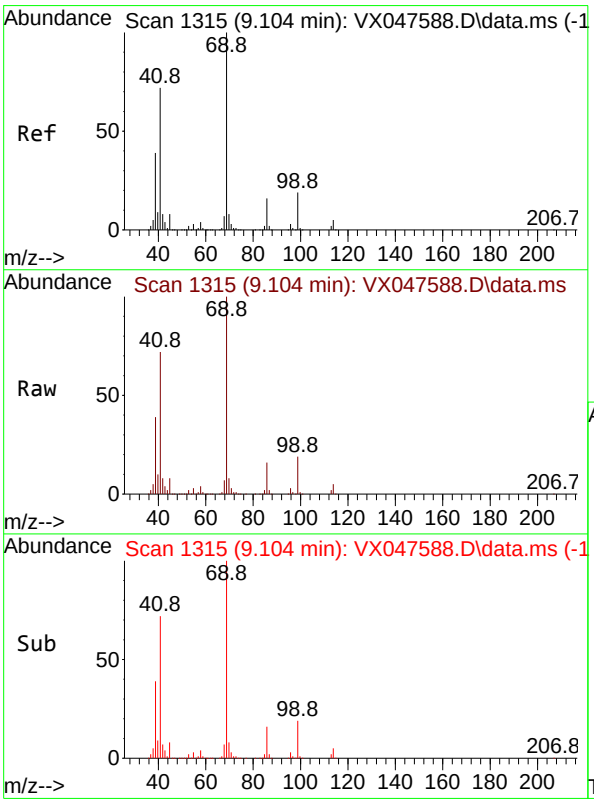
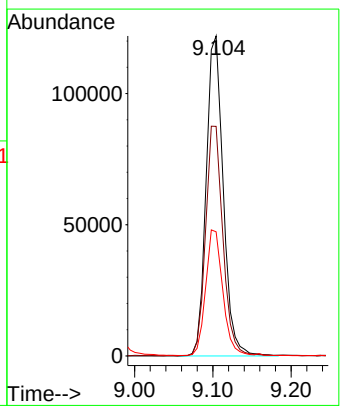
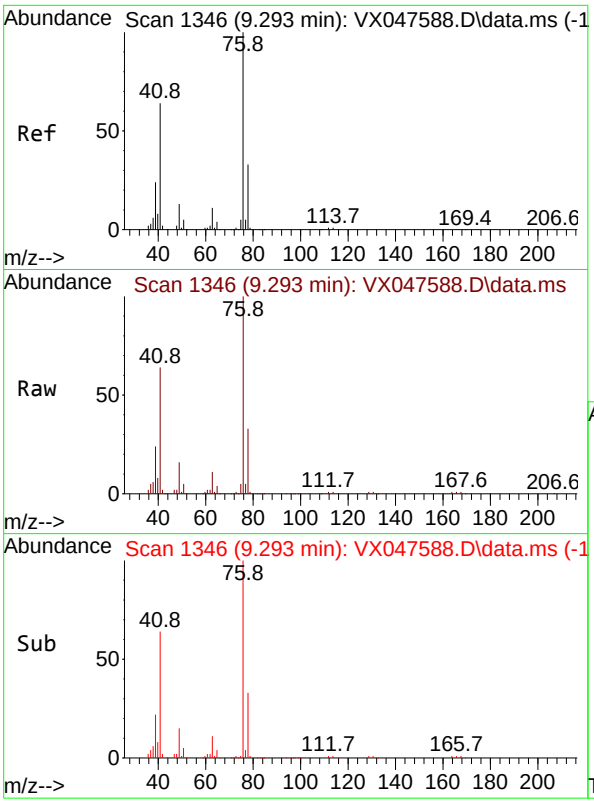


#56
Ethyl methacrylate
Concen: 53.930 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 69 Resp: 184087

Ion	Ratio	Lower	Upper
69	100		
41	73.2	58.6	87.8
39	39.4	31.5	47.3

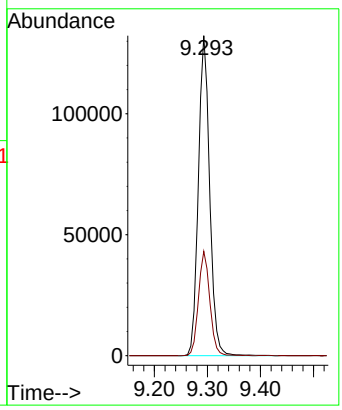




#57
1,3-Dichloropropane
Concen: 52.492 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 76 Resp: 19598

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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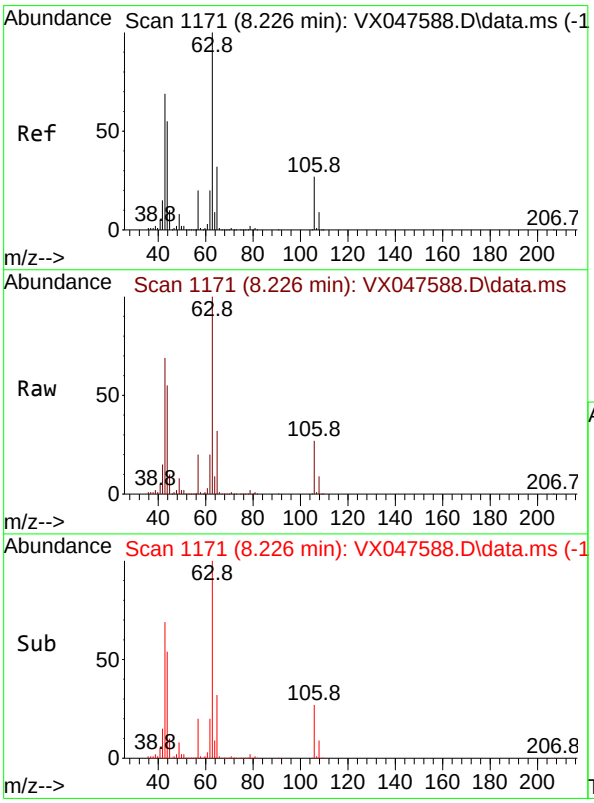
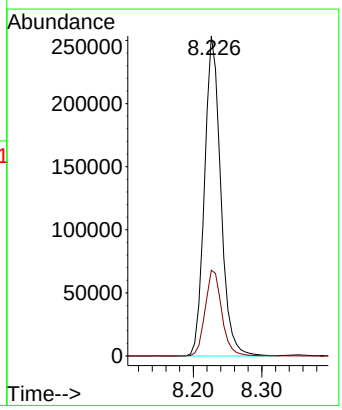
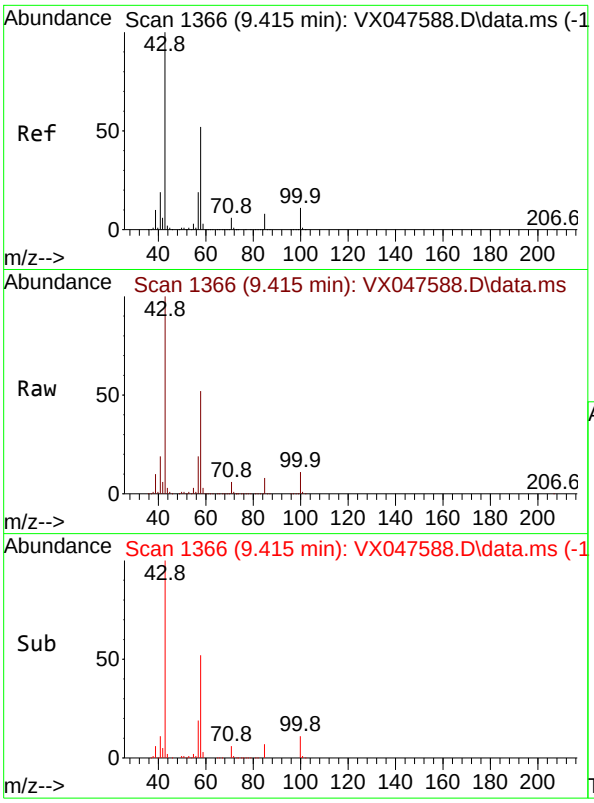


#58
2-Chloroethyl Vinyl ether
Concen: 256.309 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 418707

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.9	32.9

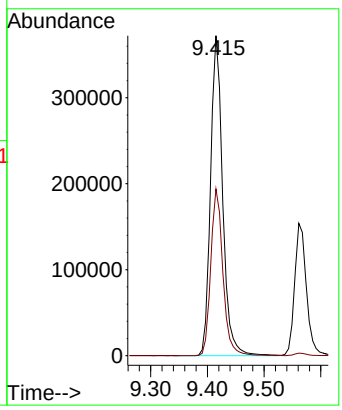




#59
2-Hexanone
Concen: 262.683 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 55331

Ion	Ratio	Lower	Upper
43	100		
58	52.1	26.1	78.2



Instrument :
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ClientSampleId :
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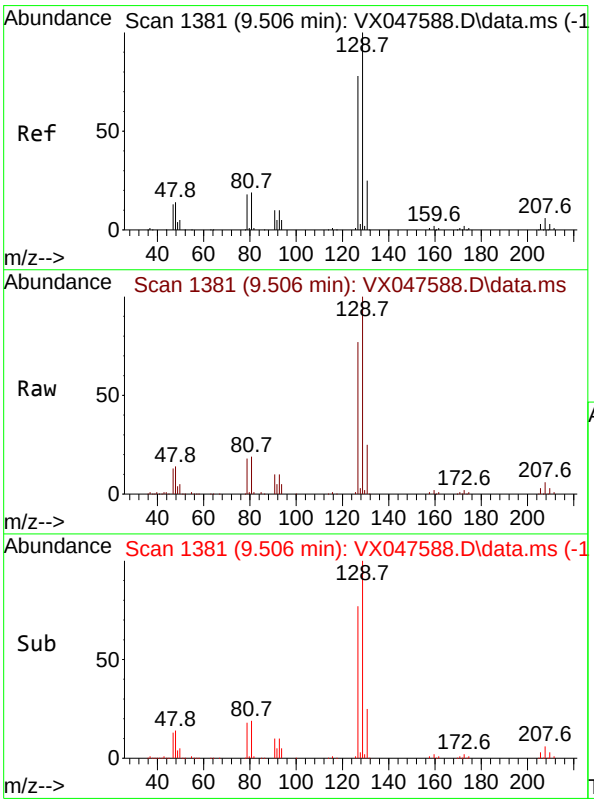
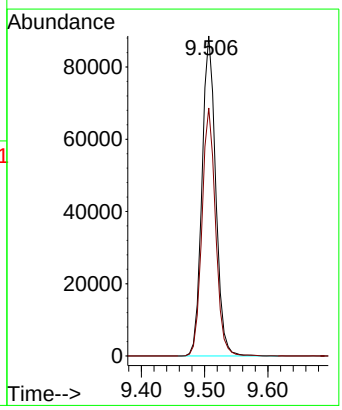
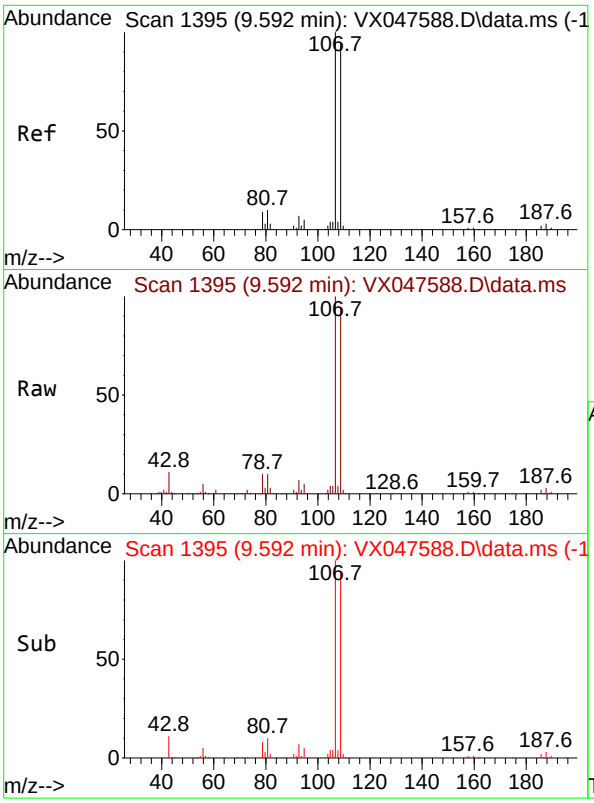


#60
Dibromochloromethane
Concen: 53.401 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:129 Resp: 133737

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.4	115.2

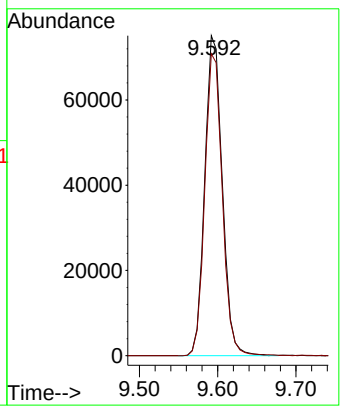




#61
1,2-Dibromoethane
Concen: 52.607 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:107 Resp: 11646

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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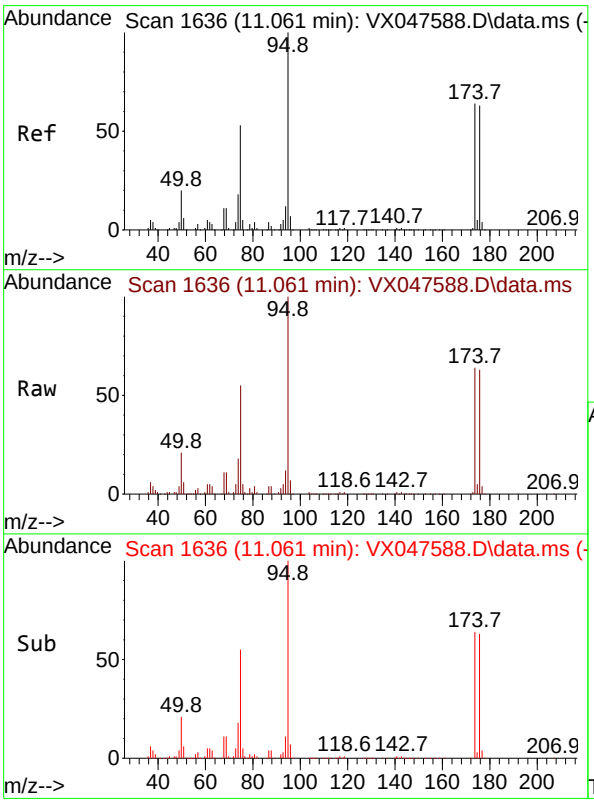
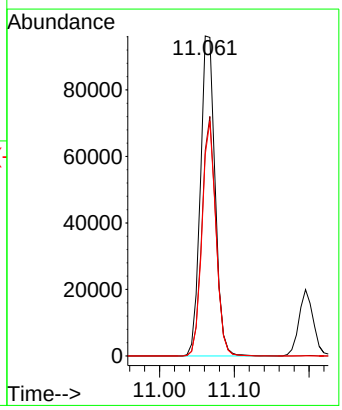
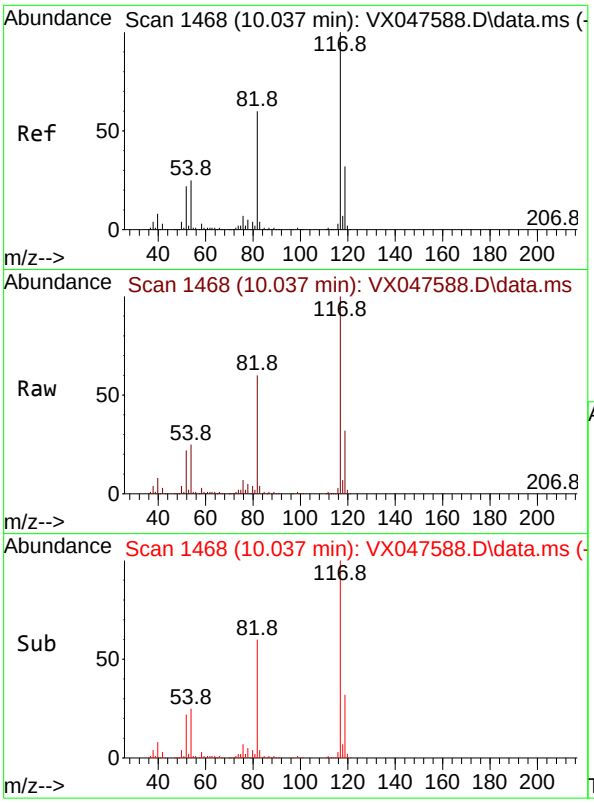


#62
4-Bromofluorobenzene
Concen: 48.471 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 95 Resp: 131217

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	141.6
176	69.2	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 27004

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.8	71.6
119	31.5	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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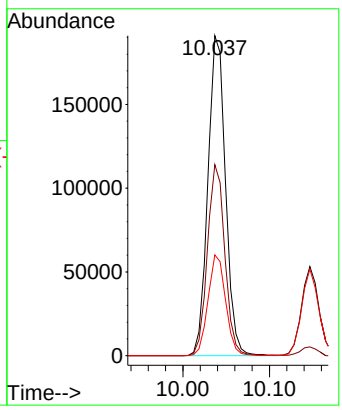
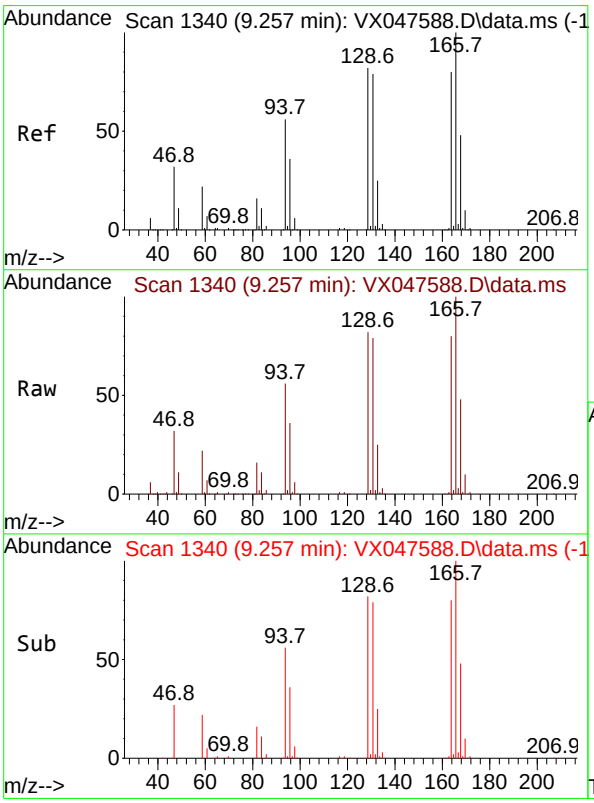
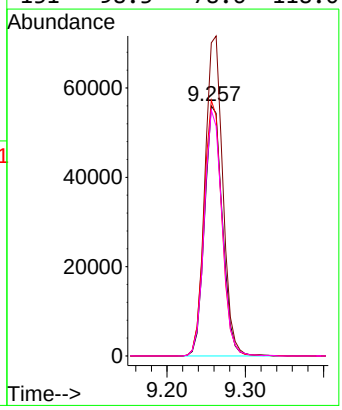


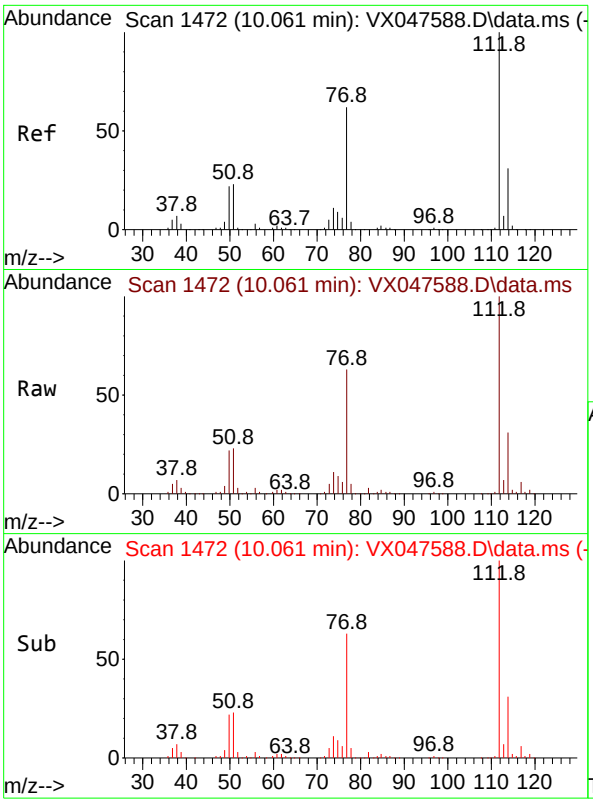


#64
Tetrachloroethene
Concen: 50.074 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:164 Resp: 88149

Ion	Ratio	Lower	Upper
164	100		
166	125.2	100.2	150.2
129	102.2	81.8	122.6
131	98.3	78.6	118.0

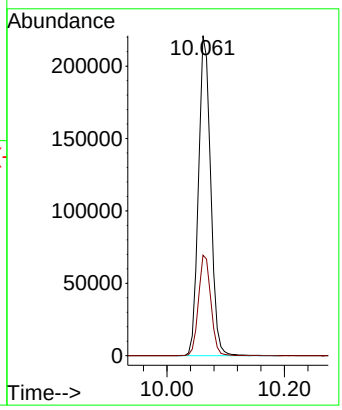




#65
Chlorobenzene
Concen: 51.833 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:112 Resp: 31798

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7



Instrument :
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ClientSampleId :
VSTDICCC050

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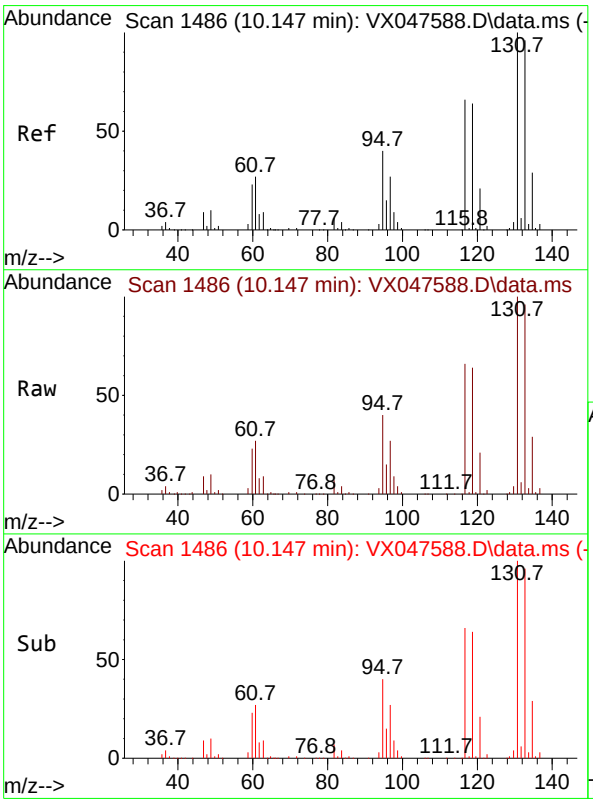
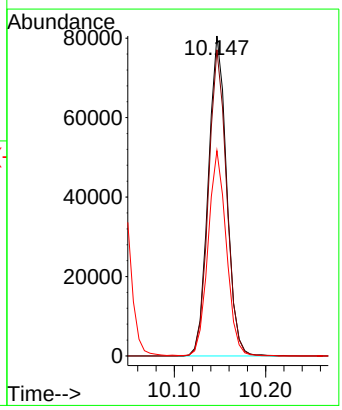
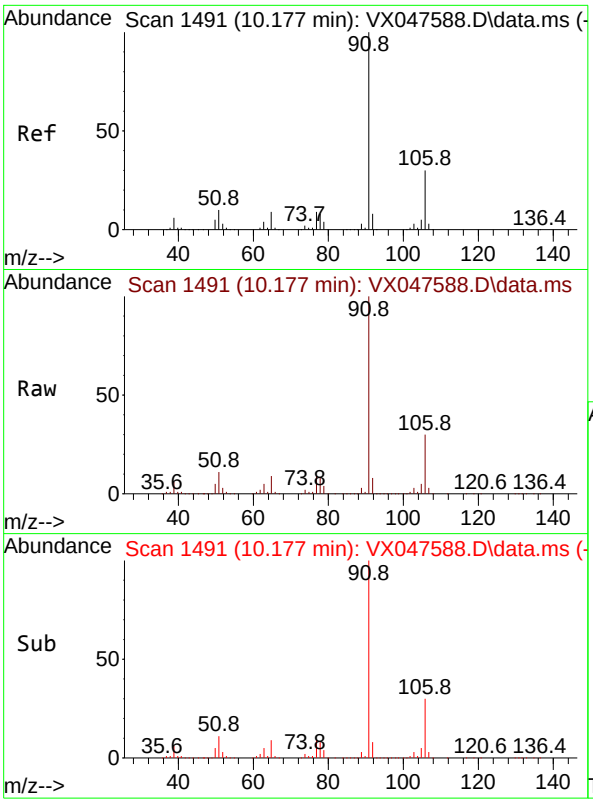


#66
1,1,1,2-Tetrachloroethane
Concen: 52.835 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:131 Resp: 111849

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.3	142.0
119	64.0	32.0	96.0

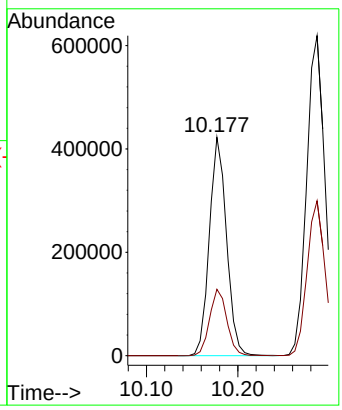




#67
Ethyl Benzene
Concen: 52.017 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 55061

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5



Instrument :
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ClientSampleId :
VSTDICCC050

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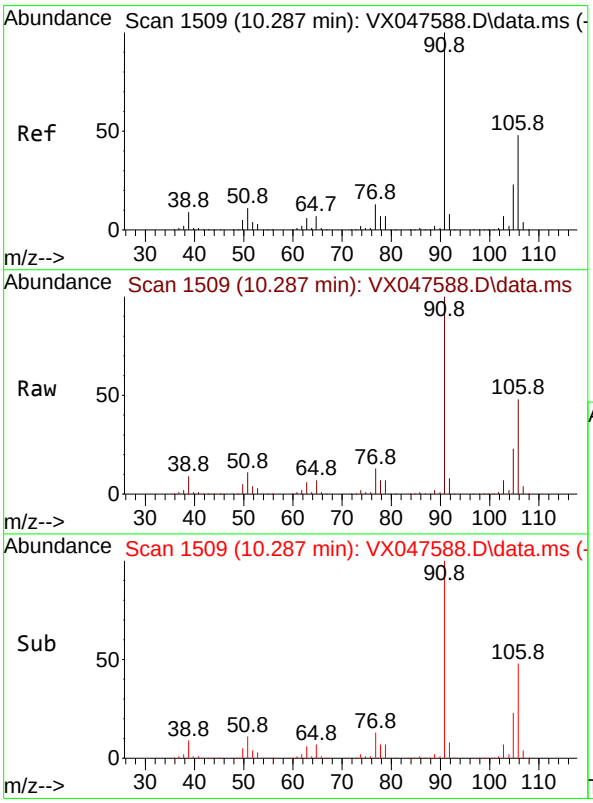
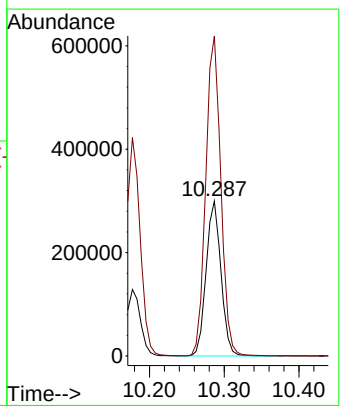
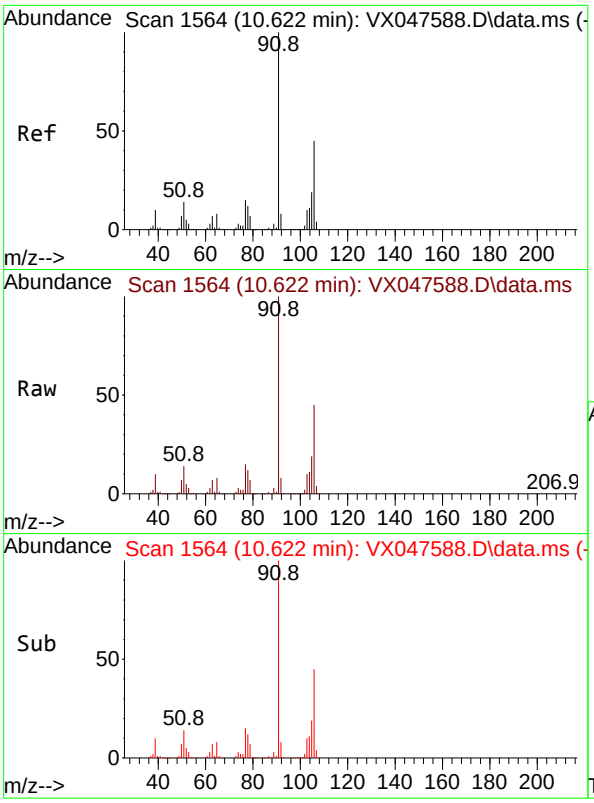


#68
m/p-Xylenes
Concen: 104.809 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:106 Resp: 412932

Ion	Ratio	Lower	Upper
106	100		
91	209.8	167.8	251.8





#69
o-Xylene
Concen: 53.084 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:106 Resp: 20229

Ion	Ratio	Lower	Upper
106	100		
91	222.3	111.1	333.4

Instrument :
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ClientSampleId :
VSTDICCC050

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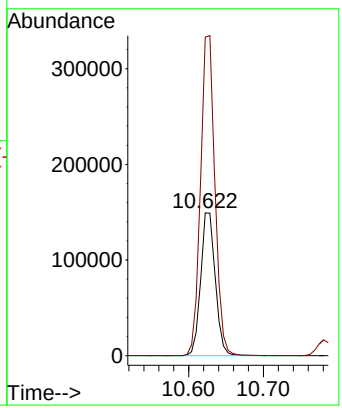
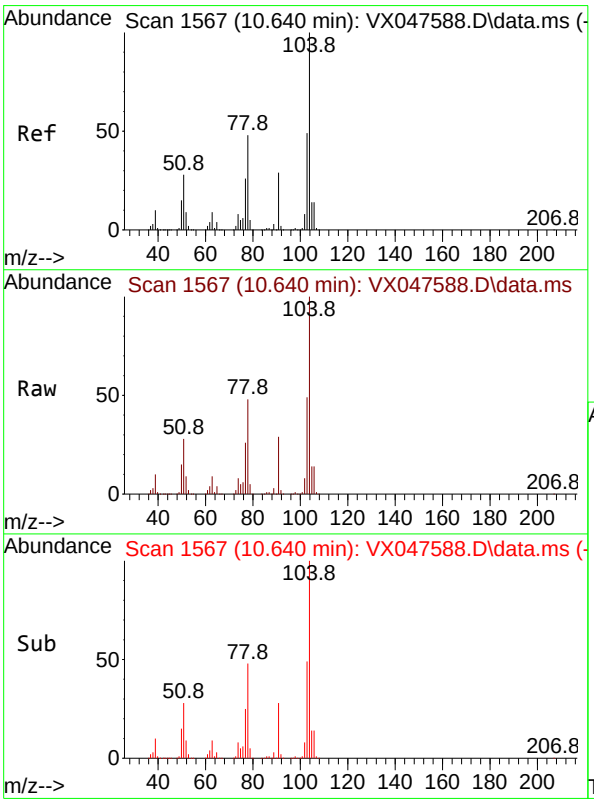
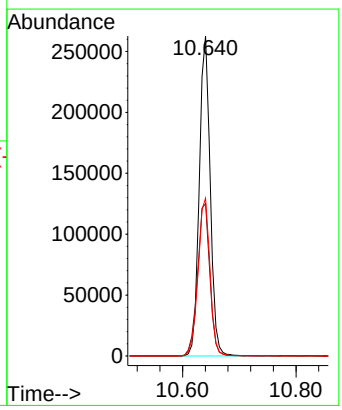


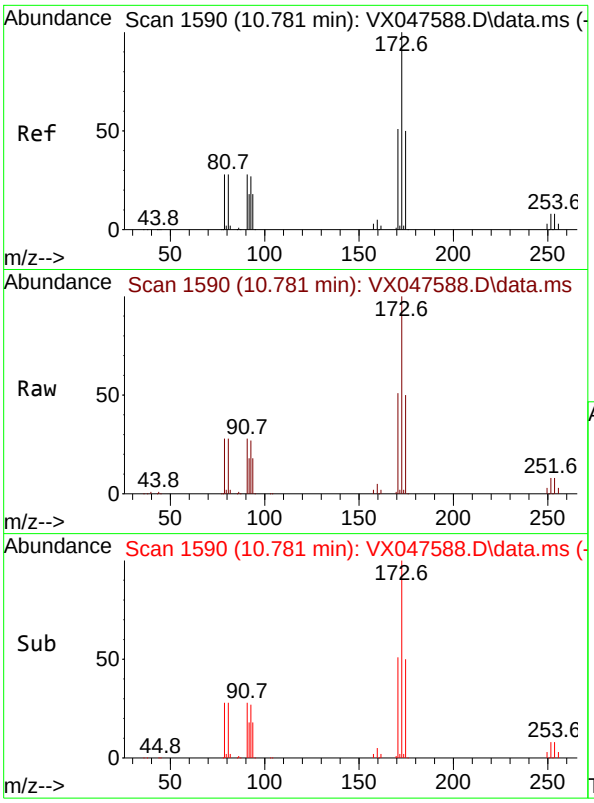


#70
Styrene
Concen: 52.515 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:104 Resp: 350654

Ion	Ratio	Lower	Upper
104	100		
78	53.9	43.1	64.7
103	53.9	43.1	64.7

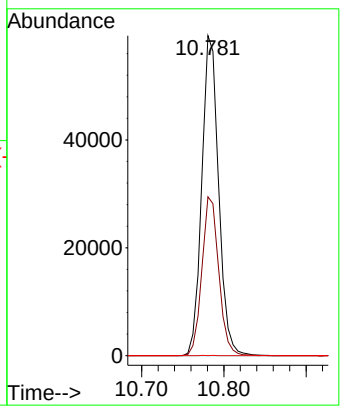




#71
Bromoform
Concen: 53.447 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:173 Resp: 8448

Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
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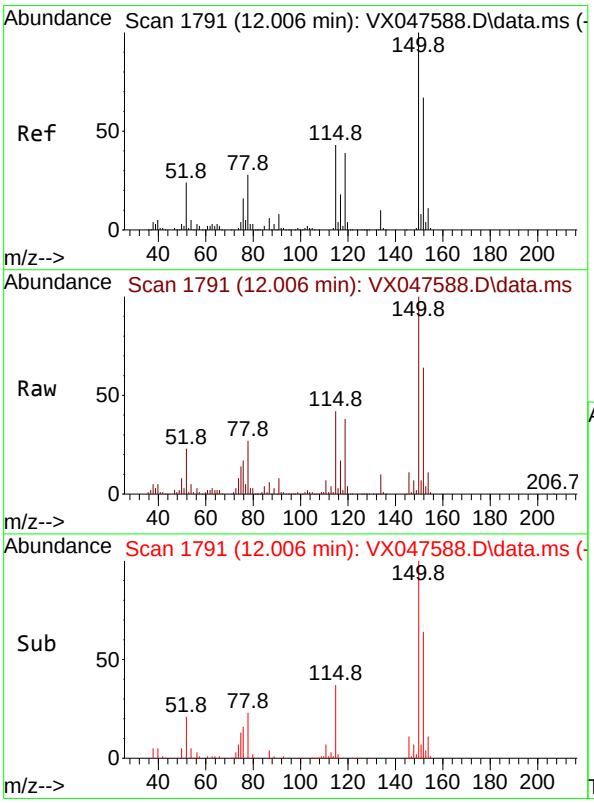
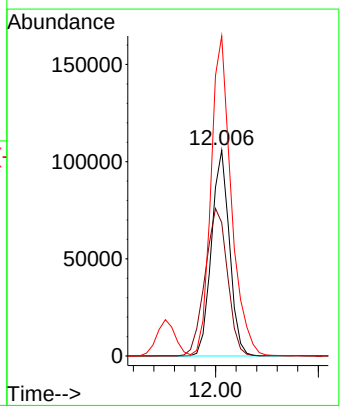
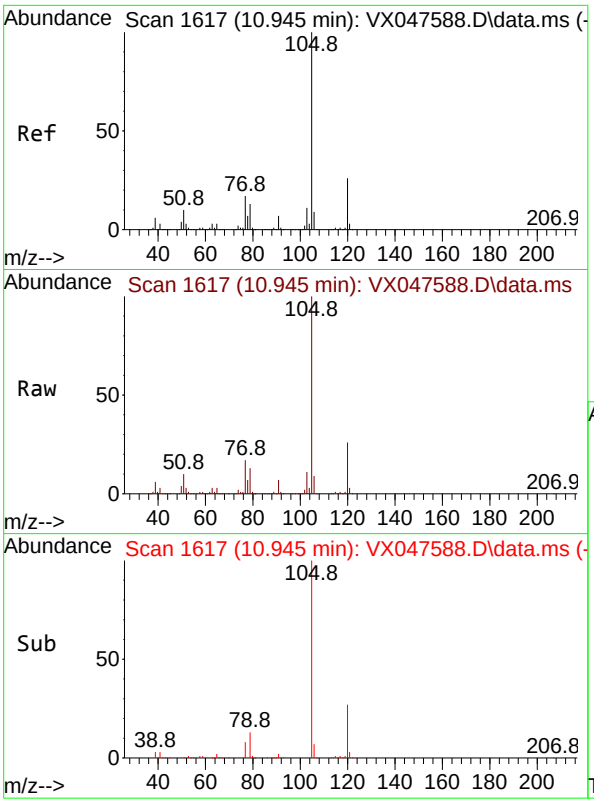


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:152 Resp: 127732

Ion	Ratio	Lower	Upper
152	100		
115	89.7	44.9	134.5
150	176.0	0.0	352.0

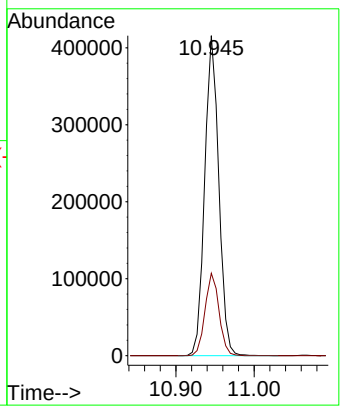




#73
Isopropylbenzene
Concen: 53.227 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 51689

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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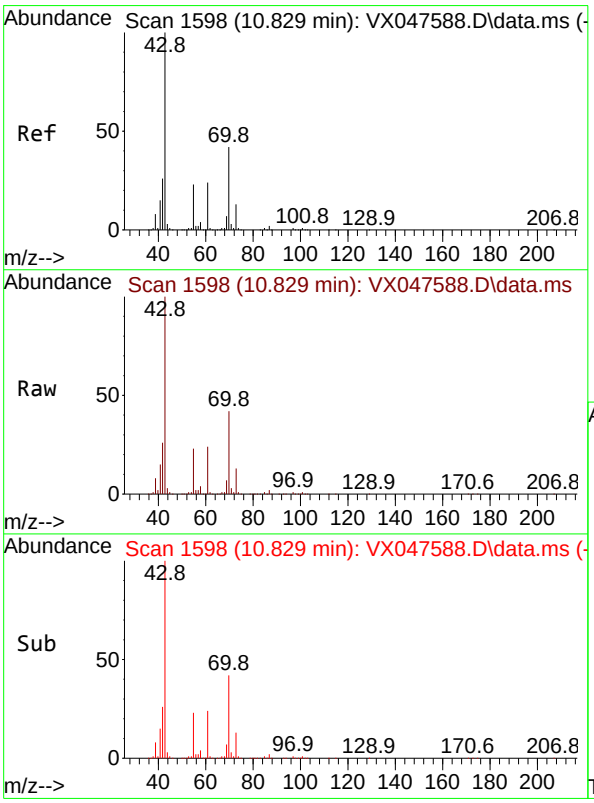
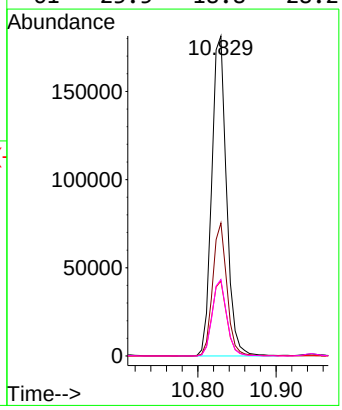
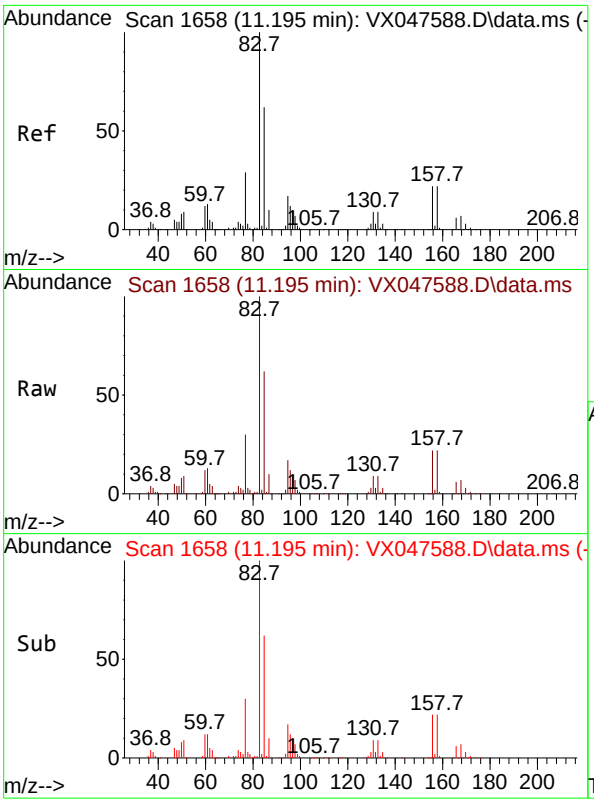


#74
N-amyl acetate
Concen: 53.710 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 237846

Ion	Ratio	Lower	Upper
43	100		
70	40.0	32.0	48.0
55	23.6	18.9	28.3
61	23.5	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 53.251 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 15645

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.3	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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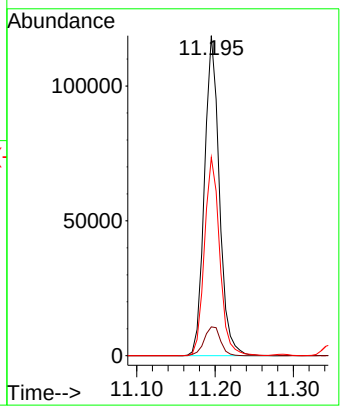
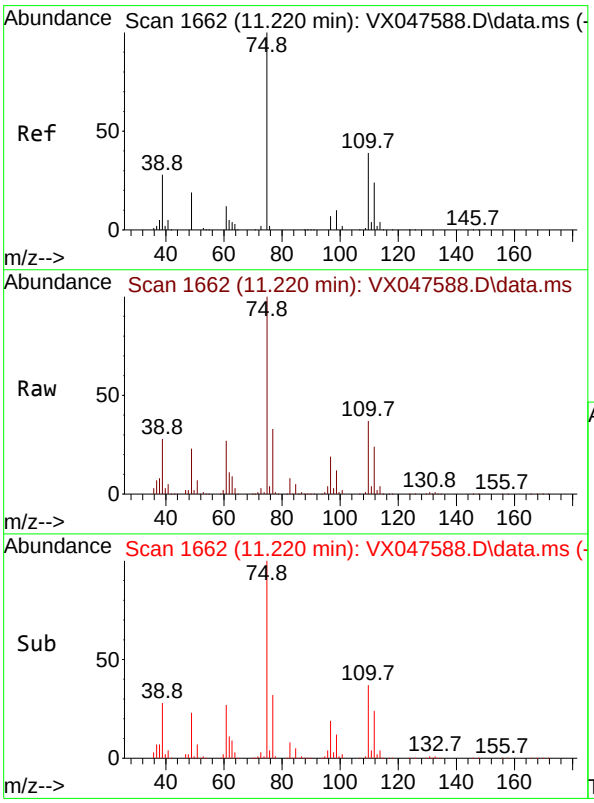
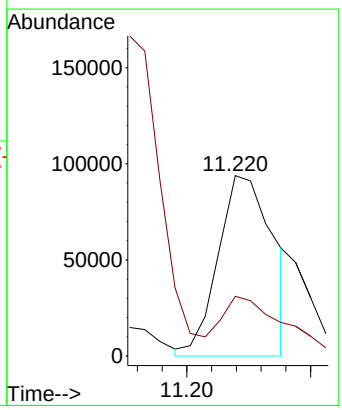


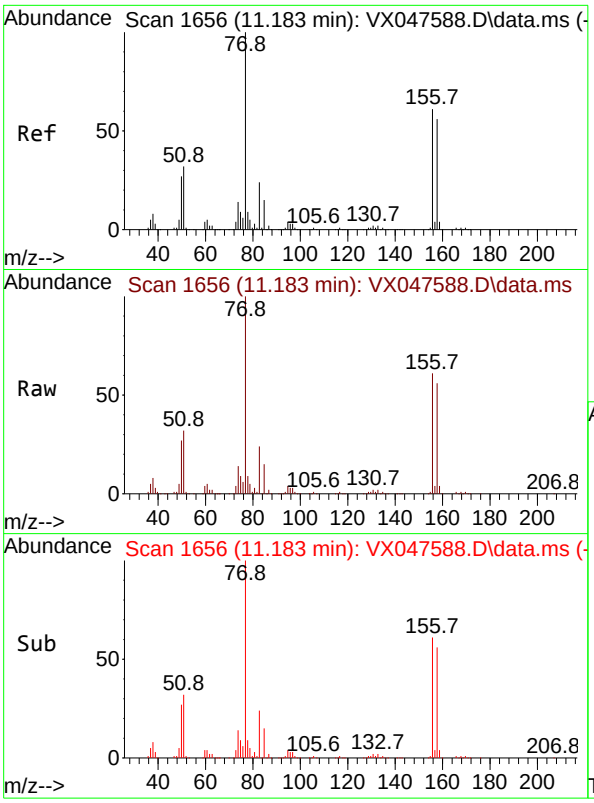


#76
1,2,3-Trichloropropane
Concen: 54.322 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 144074

Ion	Ratio	Lower	Upper
75	100		
77	37.6	18.8	56.4





#77
Bromobenzene
Concen: 52.754 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:156 Resp: 12617

Ion	Ratio	Lower	Upper
156	100		
77	179.4	89.7	269.1
158	95.7	47.9	143.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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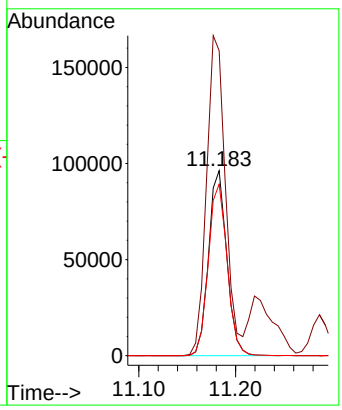
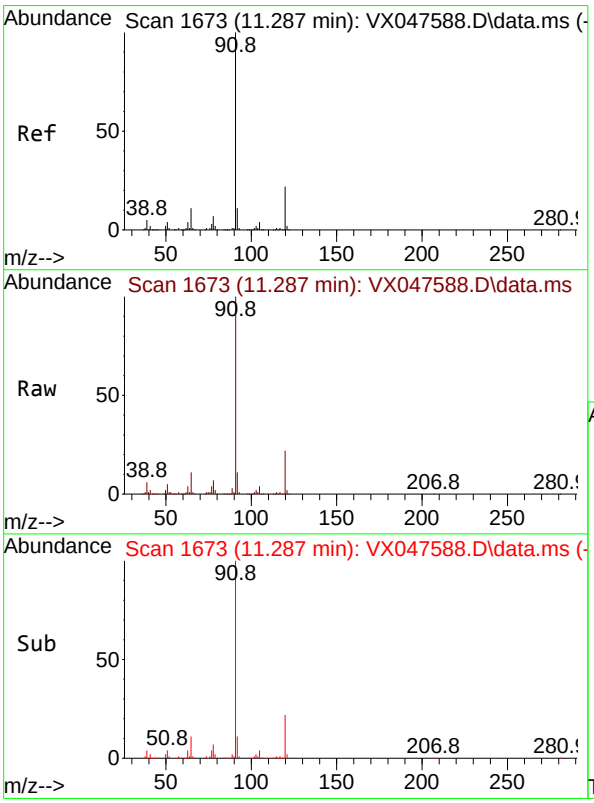
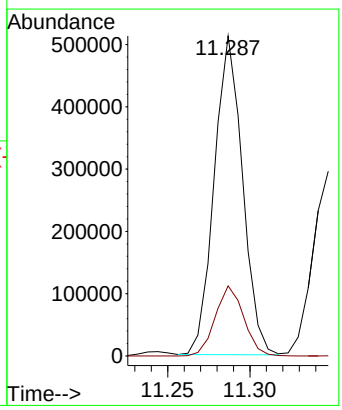


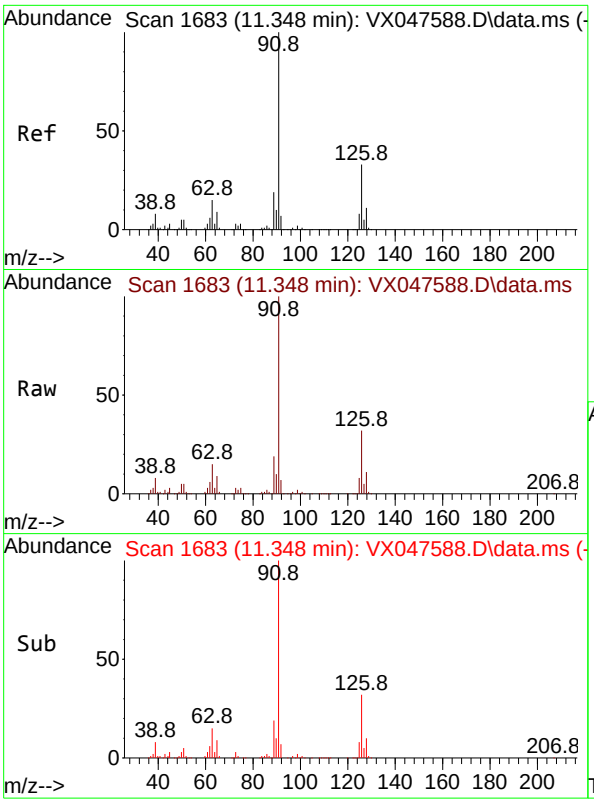


#78
n-propylbenzene
Concen: 53.315 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 612035

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1





#79
2-Chlorotoluene
Concen: 52.965 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 37239

Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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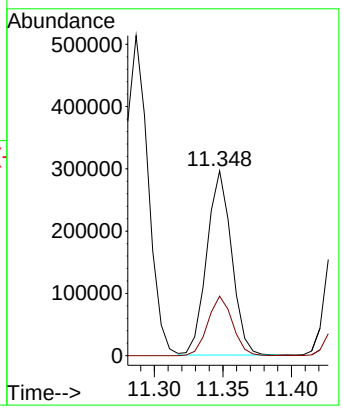
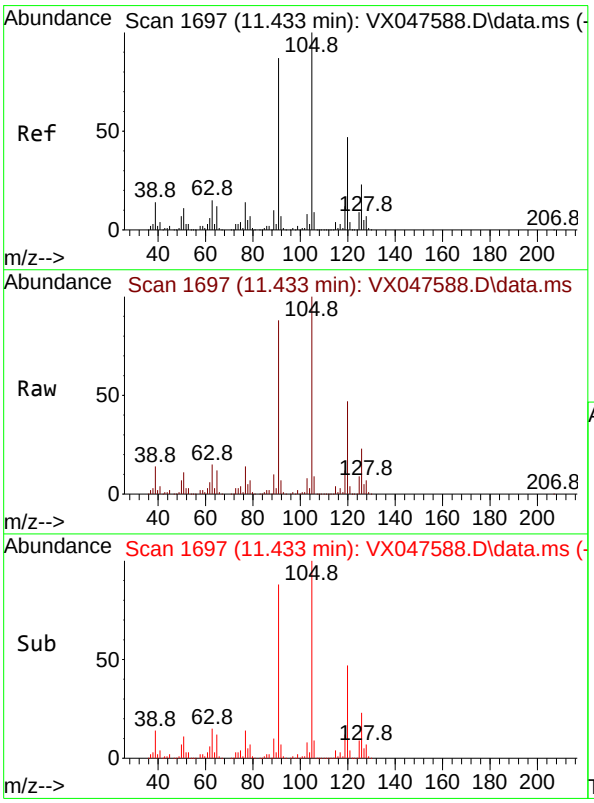
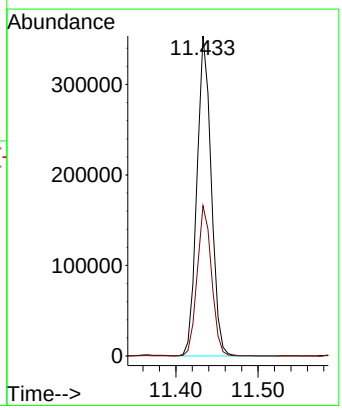


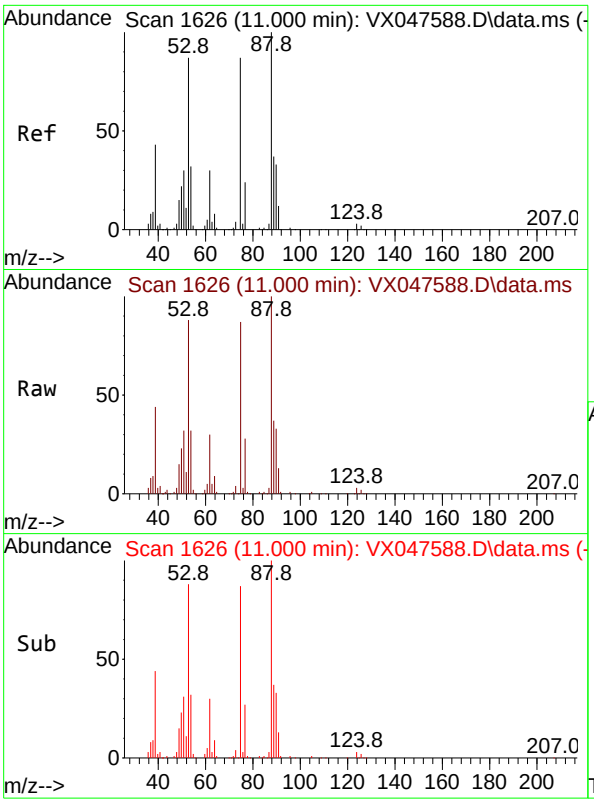


#80
1,3,5-Trimethylbenzene
Concen: 53.518 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 426989

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8

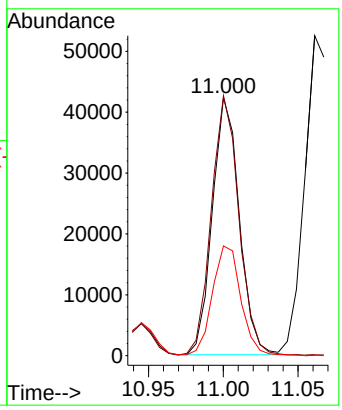




#81
trans-1,4-Dichloro-2-butene
Concen: 52.190 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 5292

Ion	Ratio	Lower	Upper
75	100		
53	104.3	83.4	125.2
89	45.4	36.3	54.5



Instrument :
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ClientSampleId :
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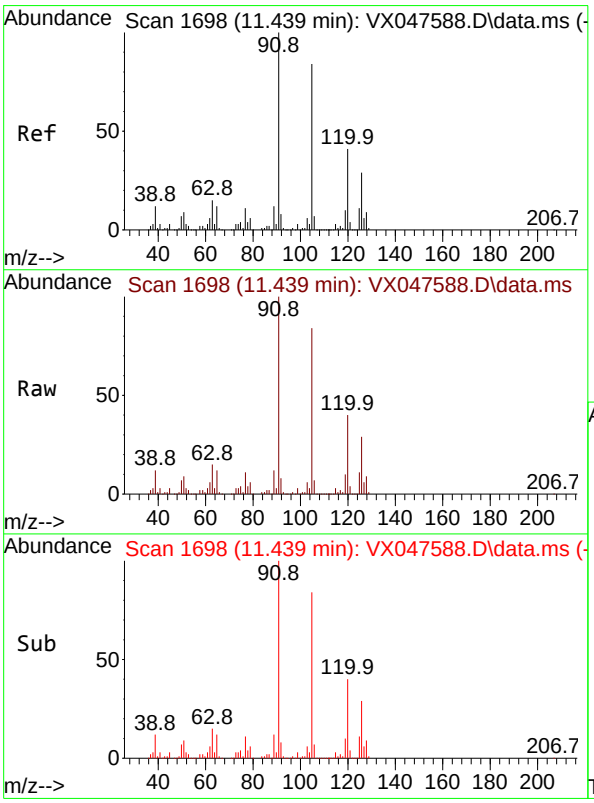
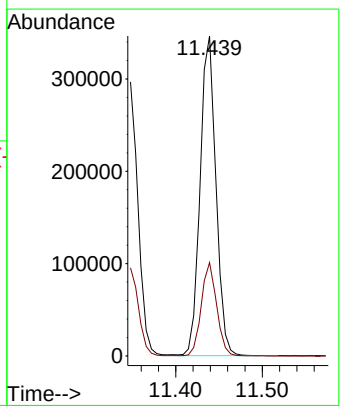
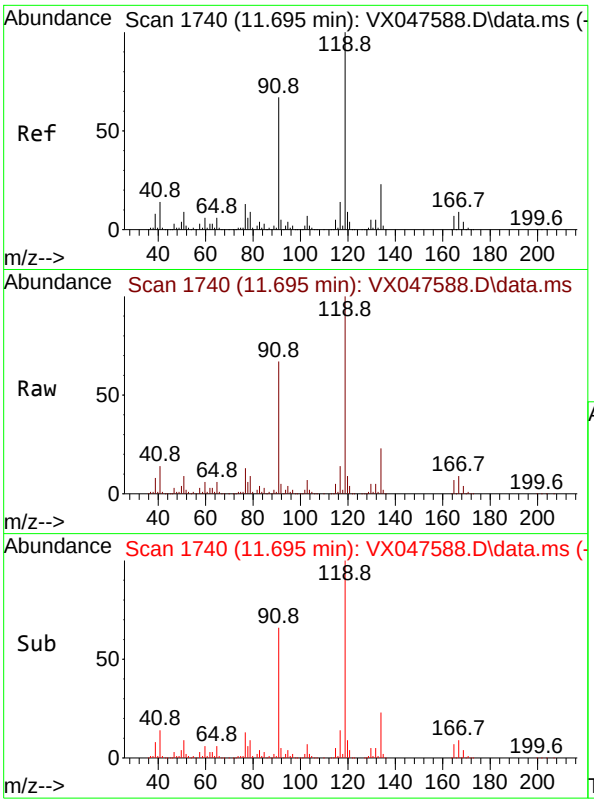


#82
4-Chlorotoluene
Concen: 52.806 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 438502

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6

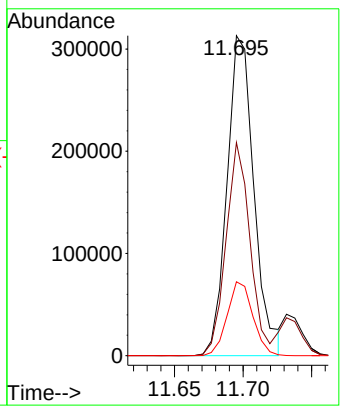




#83
tert-Butylbenzene
Concen: 52.539 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:119 Resp: 42910

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	22.0	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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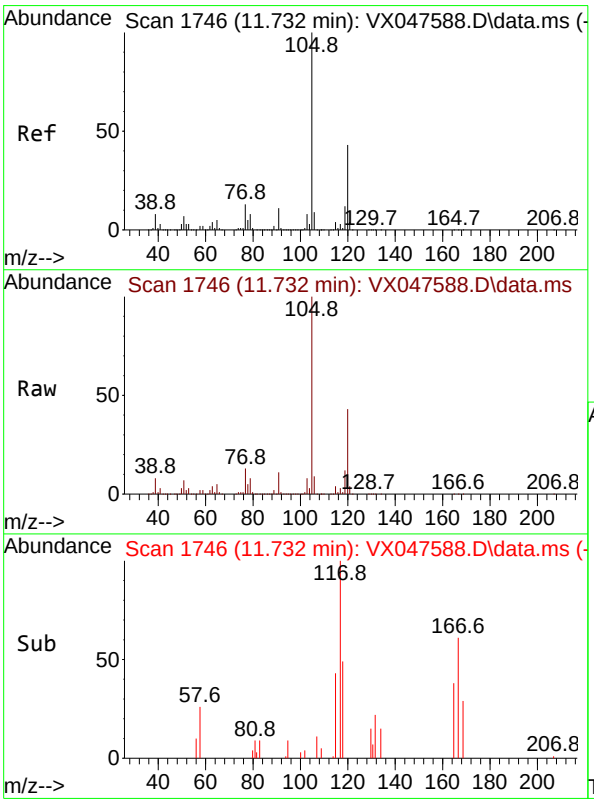
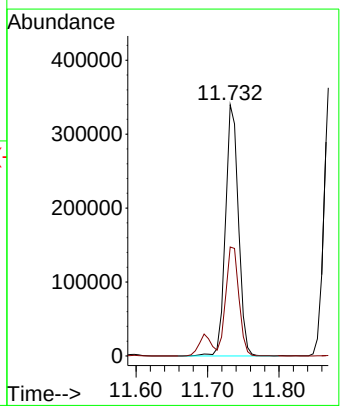
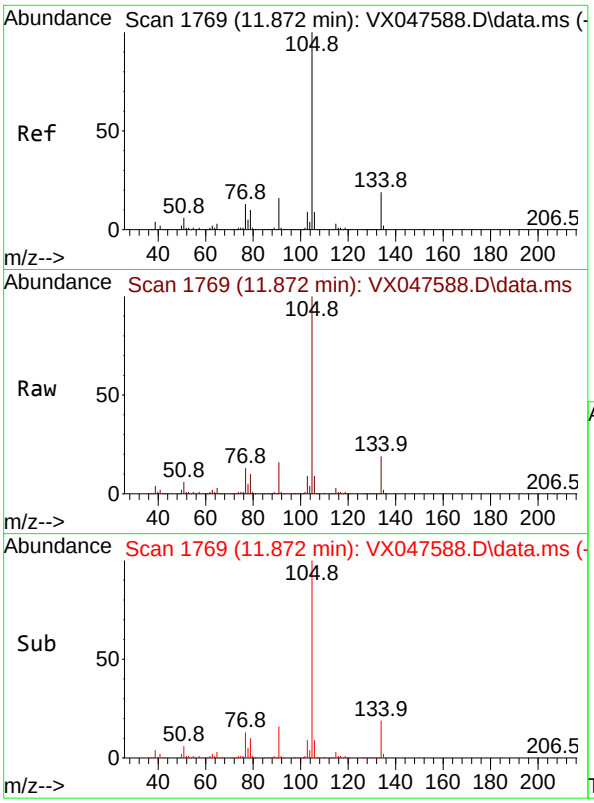


#84
1,2,4-Trimethylbenzene
Concen: 52.798 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 427073

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

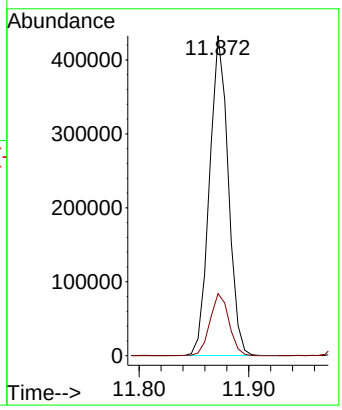




#85
sec-Butylbenzene
Concen: 53.029 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 51444

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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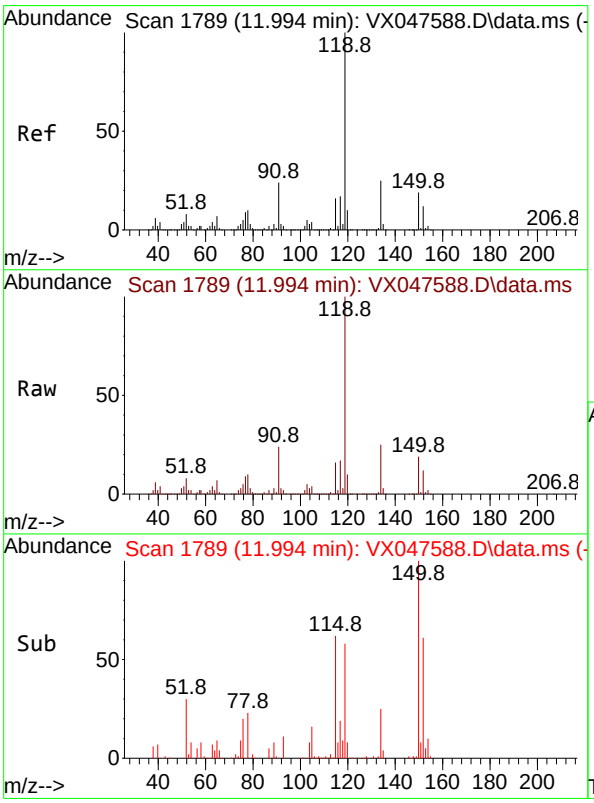
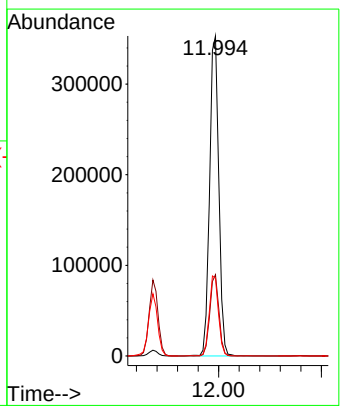
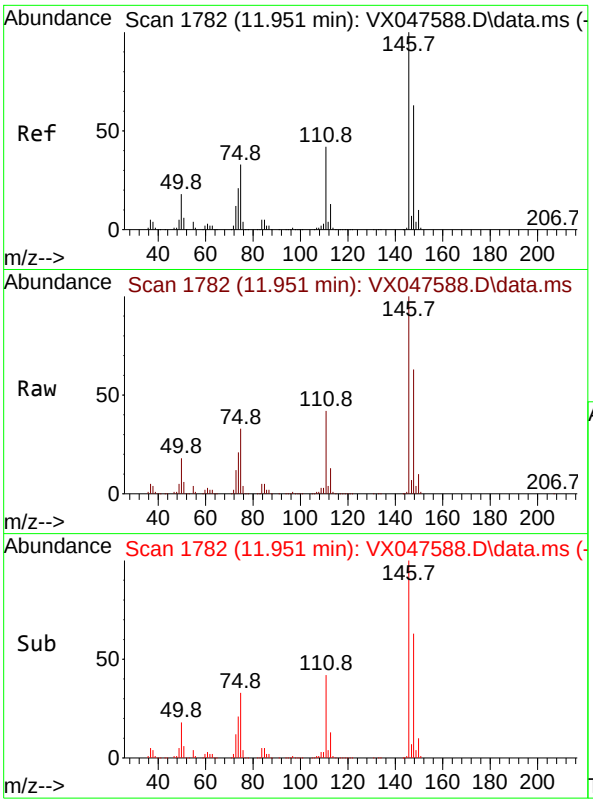


#86
p-Isopropyltoluene
Concen: 53.172 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:119 Resp: 436704

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.6	37.8
91	25.1	12.6	37.6

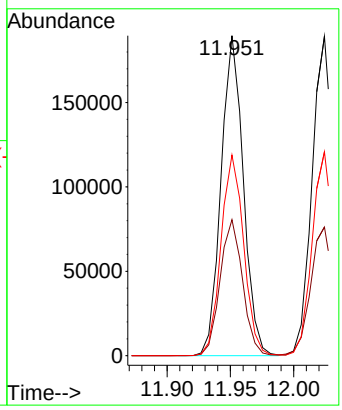




#87
1,3-Dichlorobenzene
Concen: 52.232 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 23203

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	64.0	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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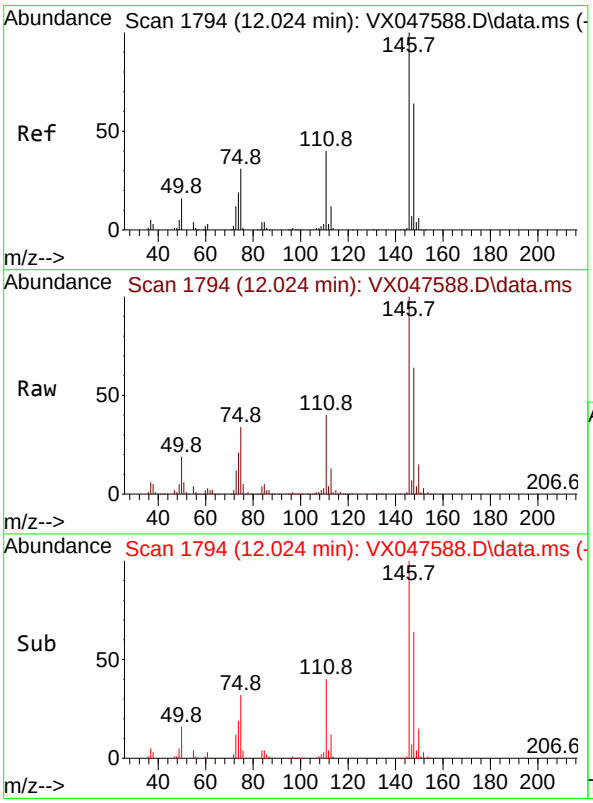
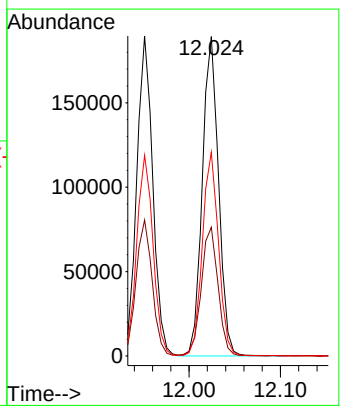
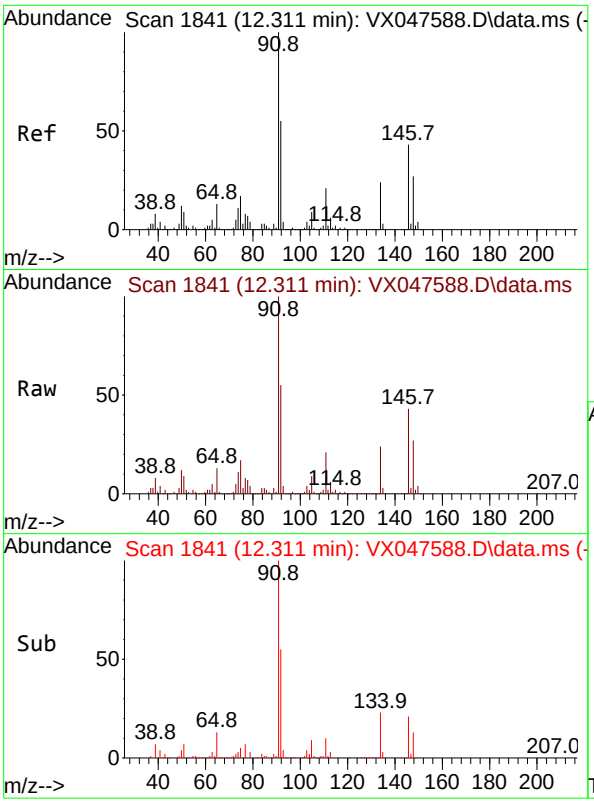


#88
1,4-Dichlorobenzene
Concen: 51.316 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 233975

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.4	31.7	95.1

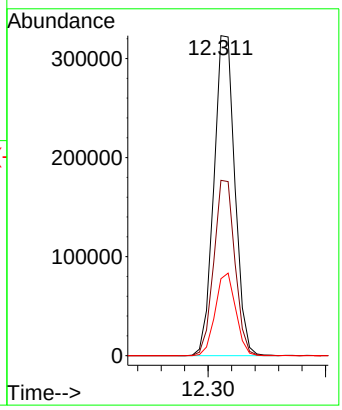




#89
n-Butylbenzene
Concen: 52.766 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 40099

Ion	Ratio	Lower	Upper
91	100		
92	55.1	27.6	82.7
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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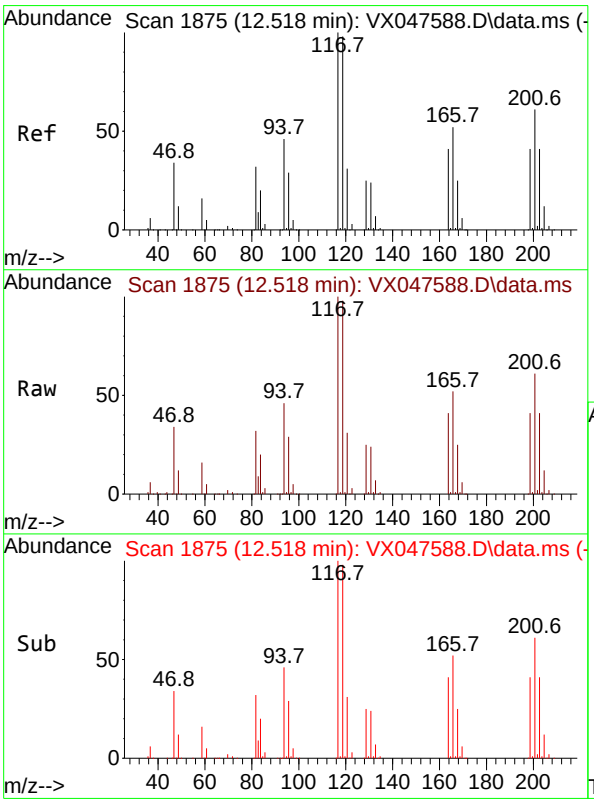
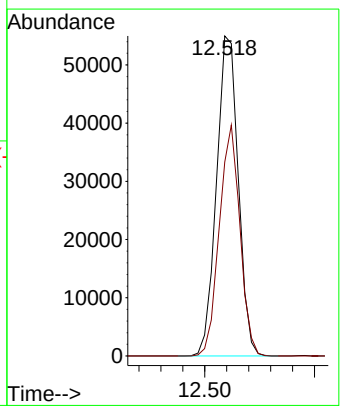
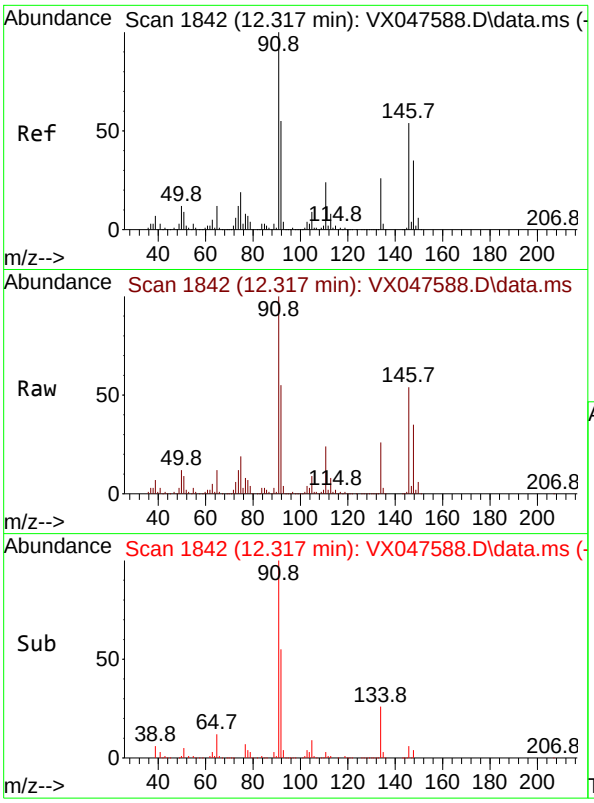


#90
Hexachloroethane
Concen: 52.567 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 75800

Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.2	102.5

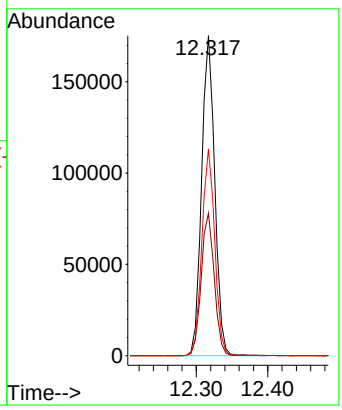




#91
1,2-Dichlorobenzene
Concen: 52.688 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 22299

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.2	66.6
148	63.6	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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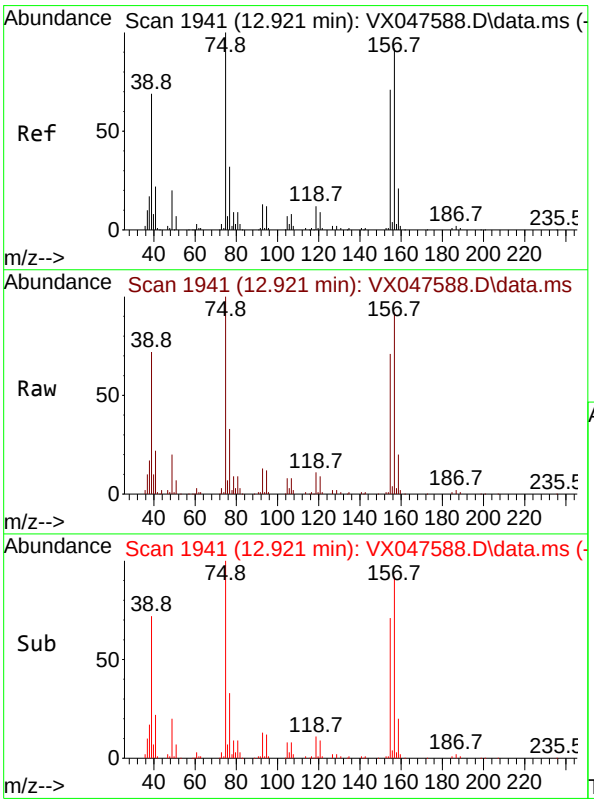
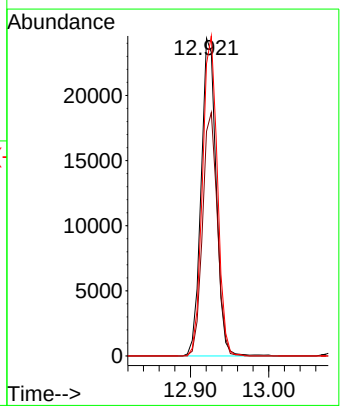
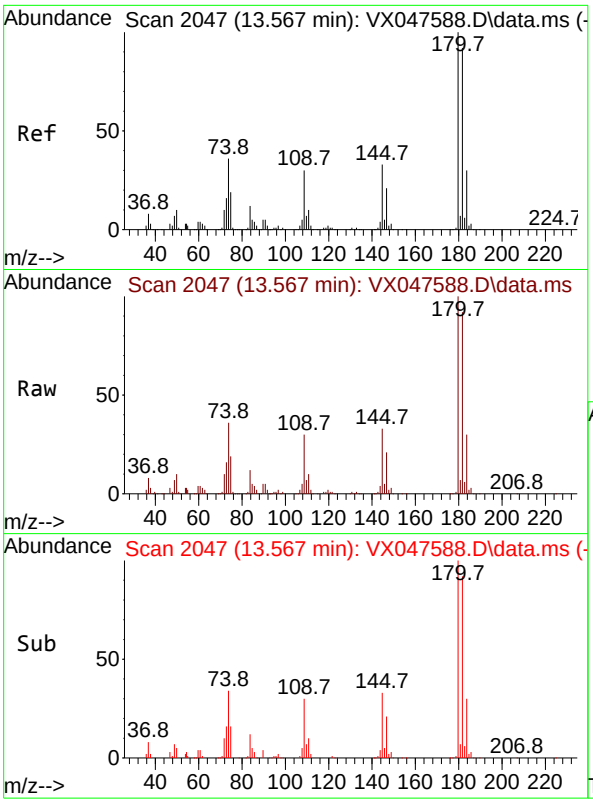


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.554 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 32451

Ion	Ratio	Lower	Upper
75	100		
155	75.4	37.7	113.1
157	99.6	49.8	149.4

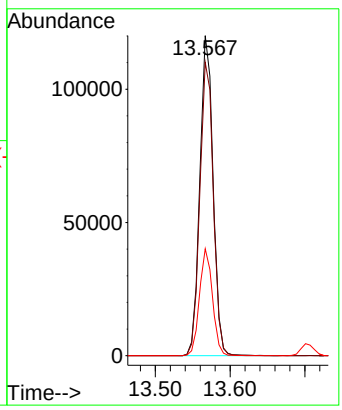




#93
1,2,4-Trichlorobenzene
Concen: 53.685 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 14767

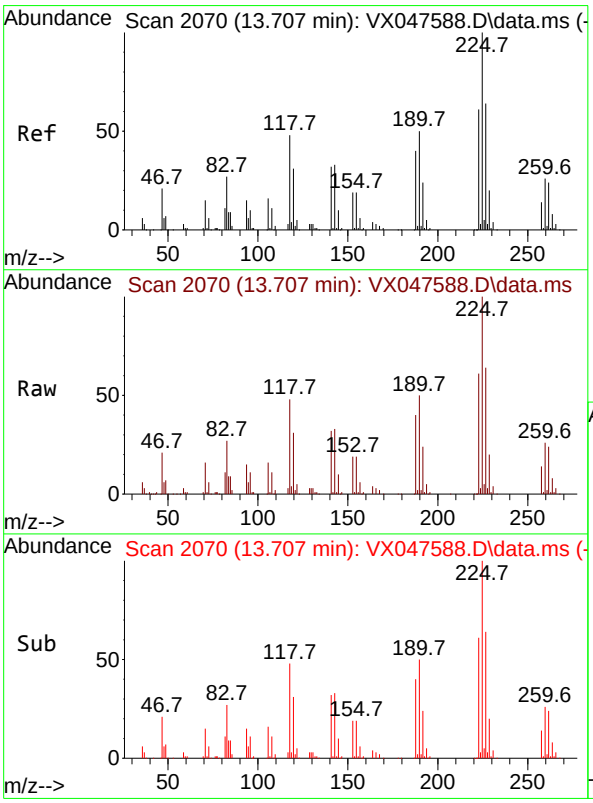
Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	32.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

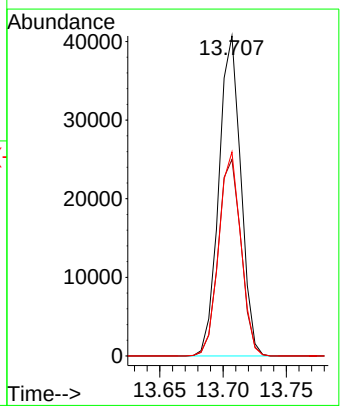
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

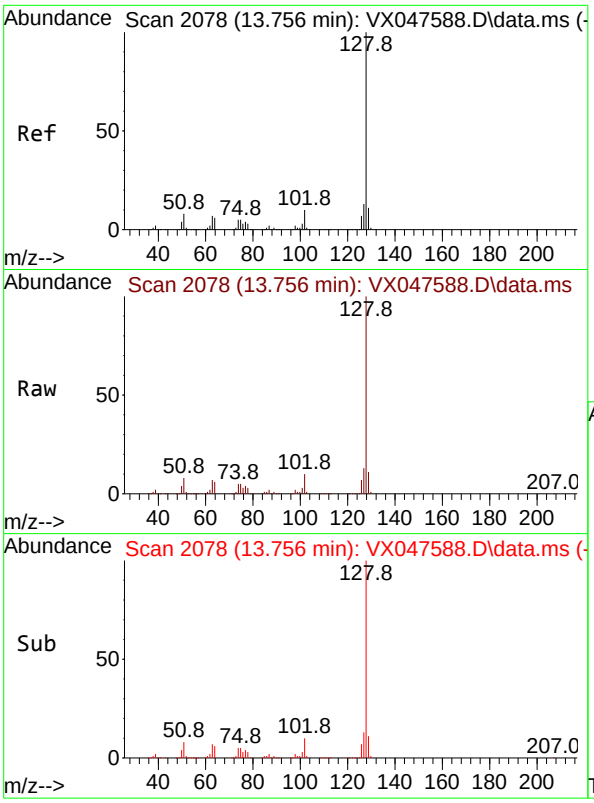


#94
Hexachlorobutadiene
Concen: 52.510 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:225 Resp: 49061

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.7	95.1
227	64.0	32.0	96.0

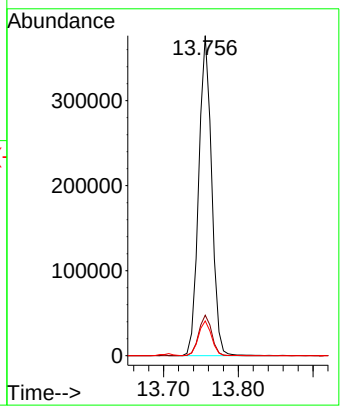




#95
Naphthalene
Concen: 53.966 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:128 Resp: 45201

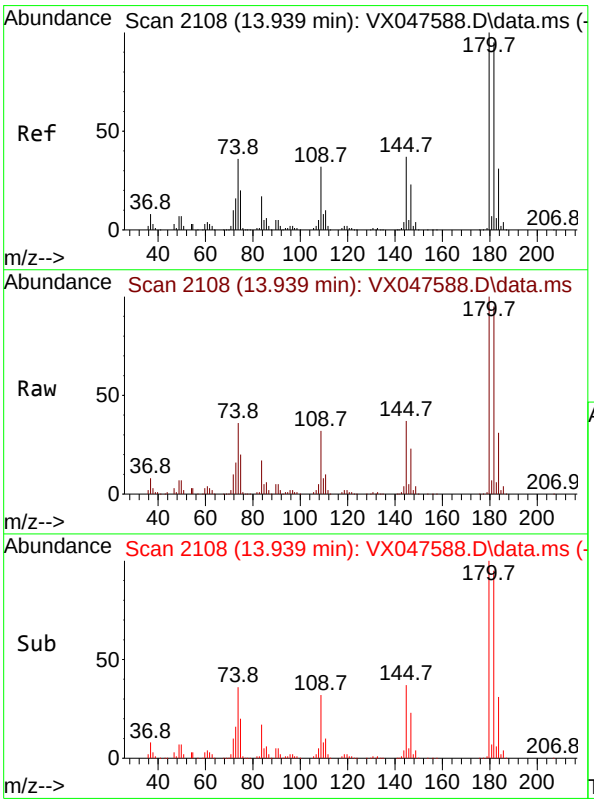
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

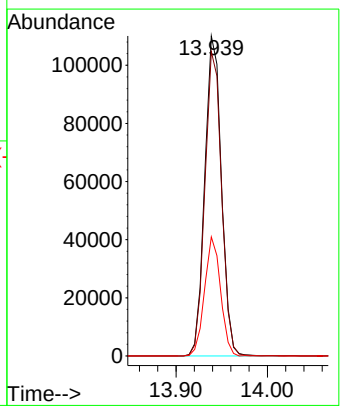
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.316 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 138978

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	35.8	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	169280	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	298913	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	258399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122218	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	275758	102.341	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 204.680%#			
35) Dibromofluoromethane	5.361	113	212419	105.962	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 211.920%#			
50) Toluene-d8	8.629	98	724078	104.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 208.780%#			
62) 4-Bromofluorobenzene	11.061	95	270289	102.672	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 205.340%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	172727	98.537	ug/l	100
3) Chloromethane	1.301	50	229165	99.472	ug/l	100
4) Vinyl Chloride	1.380	62	229175	101.621	ug/l	100
5) Bromomethane	1.611	94	143113	100.076	ug/l	99
6) Chloroethane	1.691	64	152487	101.167	ug/l	99
7) Trichlorofluoromethane	1.892	101	344488	102.878	ug/l	100
8) Diethyl Ether	2.130	74	142038	103.695	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	199843	102.067	ug/l	99
10) Methyl Iodide	2.453	142	313092	102.531	ug/l	99
11) Tert butyl alcohol	2.947	59	152108	506.863	ug/l	98
12) 1,1-Dichloroethene	2.319	96	206097	102.473	ug/l	93
13) Acrolein	2.233	56	150793	545.276	ug/l	97
14) Allyl chloride	2.660	41	415140	100.028	ug/l	99
15) Acrylonitrile	3.056	53	581240	522.897	ug/l	100
16) Acetone	2.374	43	510542	435.772	ug/l	100
17) Carbon Disulfide	2.514	76	537888	97.693	ug/l	98
18) Methyl Acetate	2.697	43	292867	112.324	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	748952	102.011	ug/l	100
20) Methylene Chloride	2.782	84	242548	97.805	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	217759	100.566	ug/l	98
22) Diisopropyl ether	3.745	45	811840	100.934	ug/l	88
23) Vinyl Acetate	3.709	43	3314707	514.916	ug/l	99
24) 1,1-Dichloroethane	3.599	63	435815	101.944	ug/l	98
25) 2-Butanone	4.532	43	700827	479.558	ug/l	97
26) 2,2-Dichloropropane	4.465	77	357292	100.542	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	266550	100.516	ug/l	100
28) Bromochloromethane	4.873	49	198788	106.512	ug/l	99
29) Tetrahydrofuran	4.977	42	443530	504.502	ug/l	99
30) Chloroform	5.074	83	433937	100.447	ug/l	100
31) Cyclohexane	5.452	56	332995	93.523	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	372323	101.607	ug/l	99
36) 1,1-Dichloropropene	5.672	75	281650	96.149	ug/l	98
37) Ethyl Acetate	4.690	43	318793	101.641	ug/l	99
38) Carbon Tetrachloride	5.660	117	314745	98.891	ug/l	98
39) Methylcyclohexane	7.360	83	327858	98.600	ug/l	98
40) Benzene	6.019	78	880885	99.009	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	168753	104.220	ug/l	99
42) 1,2-Dichloroethane	6.062	62	331465	97.916	ug/l	100
43) Isopropyl Acetate	6.318	43	516875	100.482	ug/l	99
44) Trichloroethene	7.104	130	217753	101.234	ug/l	96
45) 1,2-Dichloropropane	7.409	63	228150	100.145	ug/l	100
46) Dibromomethane	7.562	93	164987	99.519	ug/l	99
47) Bromodichloromethane	7.806	83	345991	101.136	ug/l	98
48) Methyl methacrylate	7.671	41	260358	101.612	ug/l	100
49) 1,4-Dioxane	7.641	88	56717	2190.315	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	1431253	501.834	ug/l	100
52) Toluene	8.702	92	536148	97.811	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	355881	101.986	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	380577	102.038	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	205939	97.434	ug/l	97
56) Ethyl methacrylate	9.098	69	346659	104.435	ug/l	99
57) 1,3-Dichloropropane	9.293	76	362848	99.935	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	836362	499.814	ug/l	100
59) 2-Hexanone	9.415	43	996274	486.380	ug/l	100
60) Dibromochloromethane	9.506	129	251394	103.226	ug/l	99
61) 1,2-Dibromoethane	9.592	107	217751	101.147	ug/l	100
64) Tetrachloroethene	9.256	164	165559	98.284	ug/l	98
65) Chlorobenzene	10.061	112	588517	100.253	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	208621	102.988	ug/l	100
67) Ethyl Benzene	10.177	91	1031346	101.823	ug/l	100
68) m/p-Xylenes	10.287	106	763898	202.624	ug/l	99
69) o-Xylene	10.622	106	372621	102.186	ug/l	99
70) Styrene	10.634	104	649863	101.710	ug/l	100
71) Bromoform	10.781	173	161188	106.566	ug/l	98
73) Isopropylbenzene	10.945	105	954900	102.768	ug/l	100
74) N-amyl acetate	10.823	43	448344	105.812	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	281608	100.172	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	229521m	90.444	ug/l	
77) Bromobenzene	11.183	156	234666	102.541	ug/l	98
78) n-propylbenzene	11.287	91	1119728	101.941	ug/l	99
79) 2-Chlorotoluene	11.348	91	683867	101.652	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	787327	103.134	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	102555	105.689	ug/l	98
82) 4-Chlorotoluene	11.433	91	802929	101.054	ug/l	100
83) tert-Butylbenzene	11.695	119	791896	101.333	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	790557	102.144	ug/l	99
85) sec-Butylbenzene	11.872	105	945321	101.840	ug/l	100
86) p-Isopropyltoluene	11.994	119	797643	101.501	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	432248	101.689	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	431839	98.985	ug/l	100
89) n-Butylbenzene	12.311	91	757239	104.138	ug/l	99
90) Hexachloroethane	12.518	117	148048	107.304	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	414491	102.352	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	61029	107.225	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	278777	105.922	ug/l	100
94) Hexachlorobutadiene	13.707	225	92124	103.049	ug/l	99
95) Naphthalene	13.756	128	854492	106.620	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	263512	107.633	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

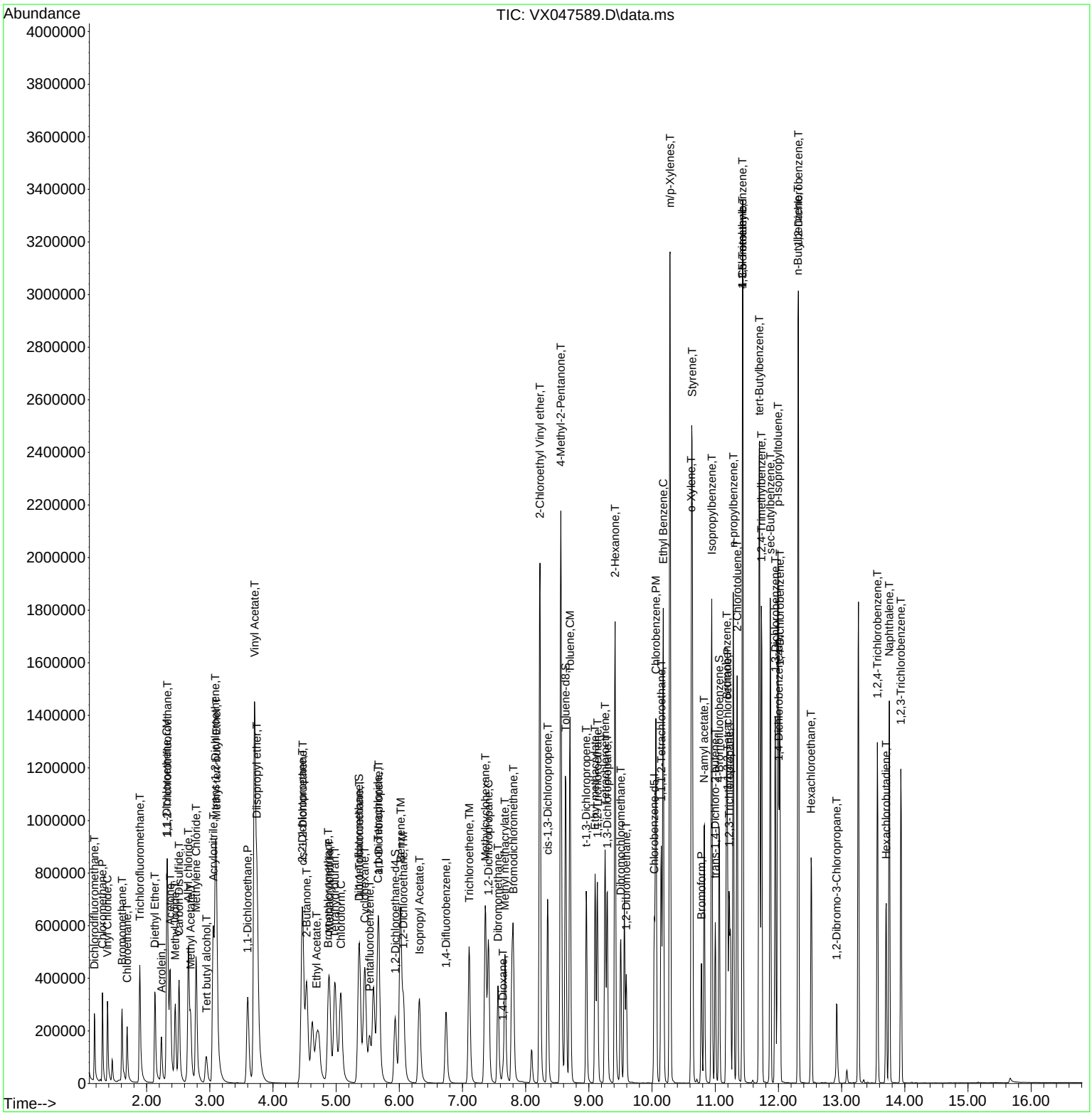
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

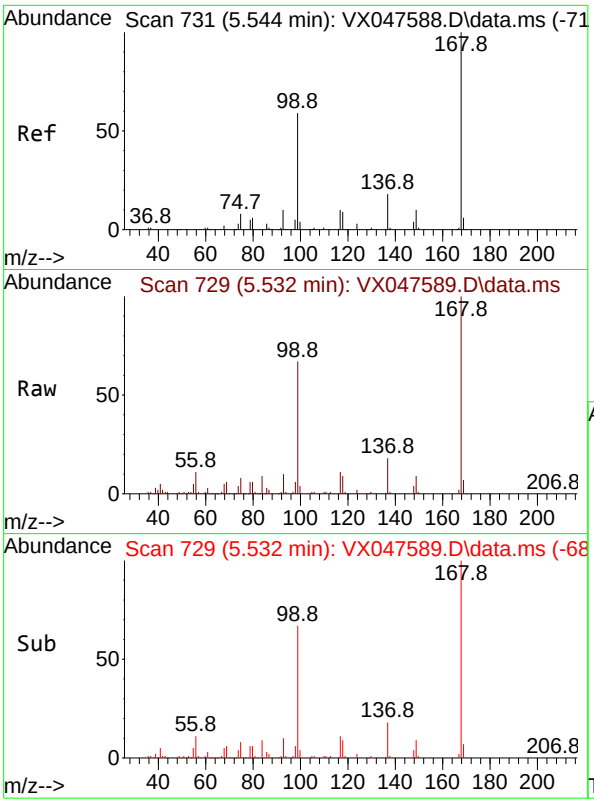
Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

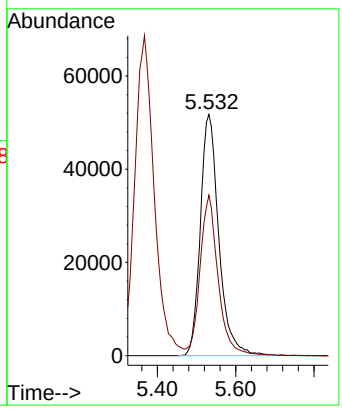




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:168 Resp: 16928

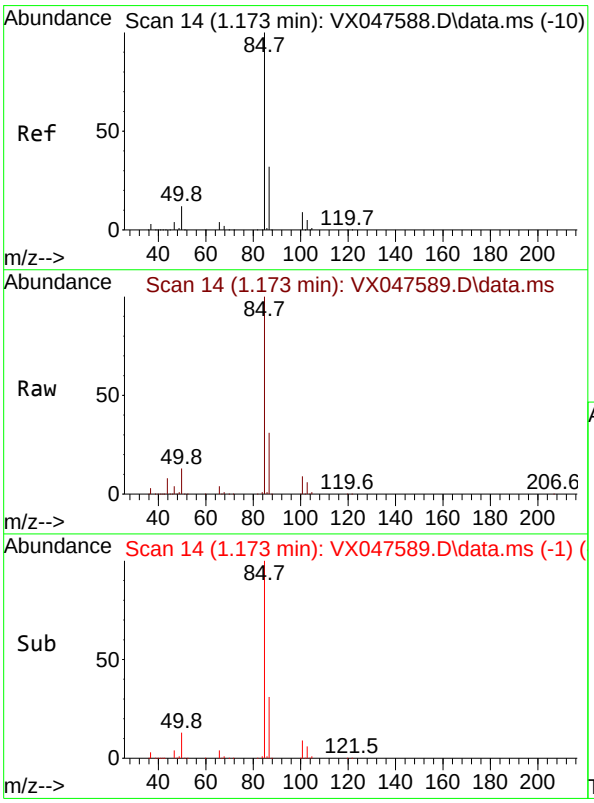
Ion	Ratio	Lower	Upper
168	100		
99	66.4	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

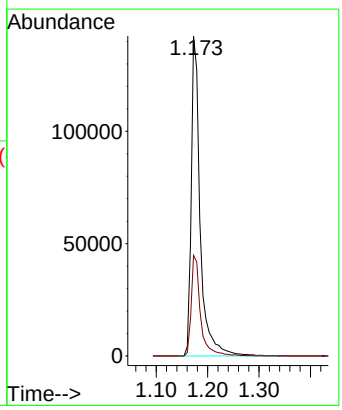
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

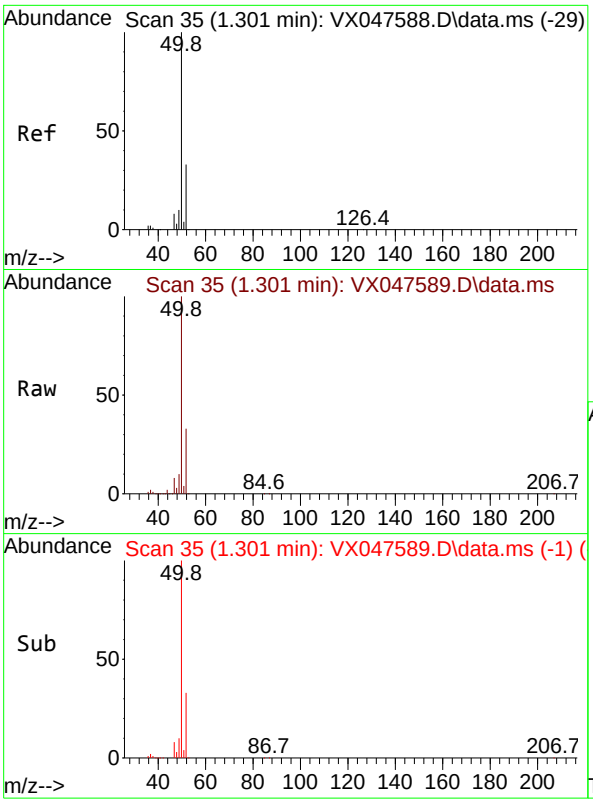


#2
Dichlorodifluoromethane
Concen: 98.537 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 85 Resp: 172727

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.8	47.3

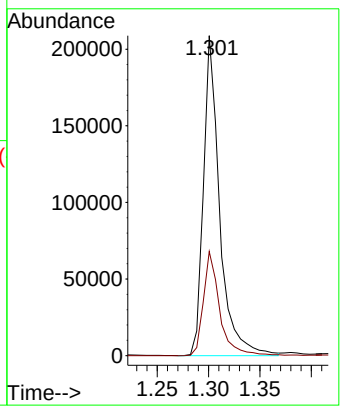




#3
Chloromethane
Concen: 99.472 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 50 Resp: 22916

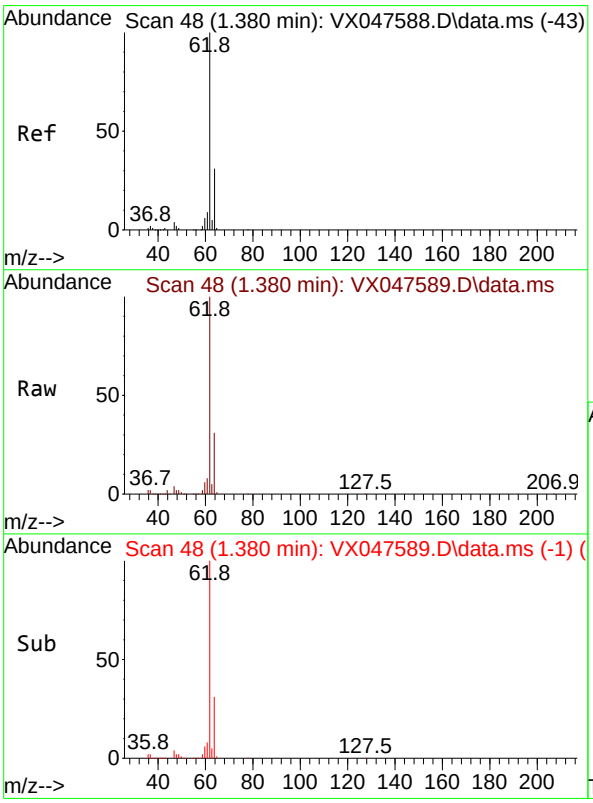
Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

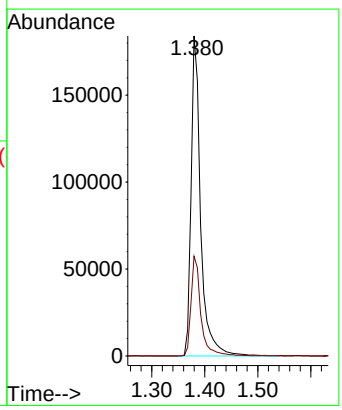
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

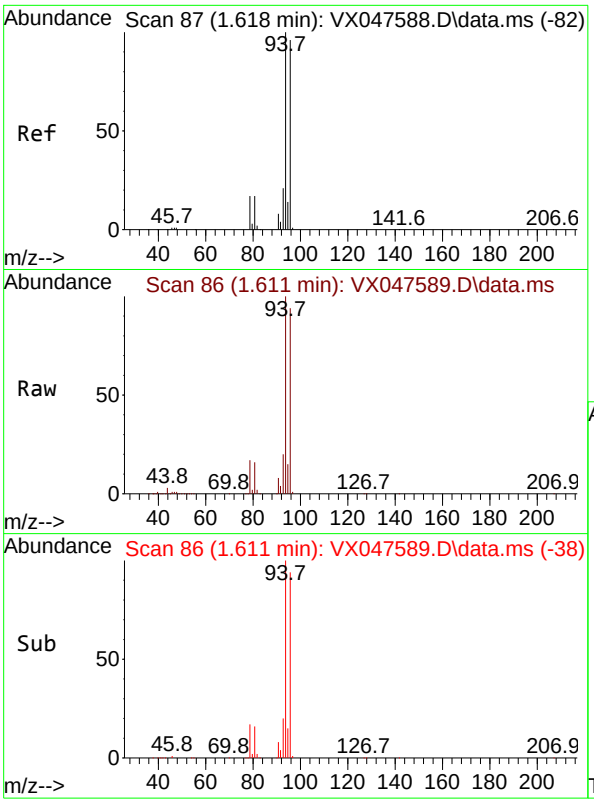


#4
Vinyl Chloride
Concen: 101.621 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 229175

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

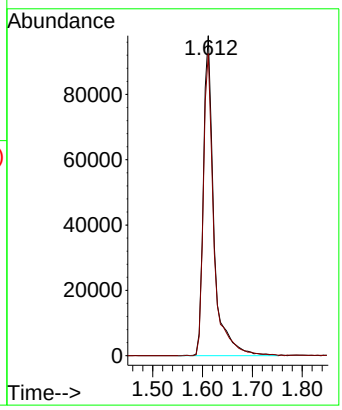




#5
Bromomethane
Concen: 100.076 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 94 Resp: 14311

Ion	Ratio	Lower	Upper
94	100		
96	94.4	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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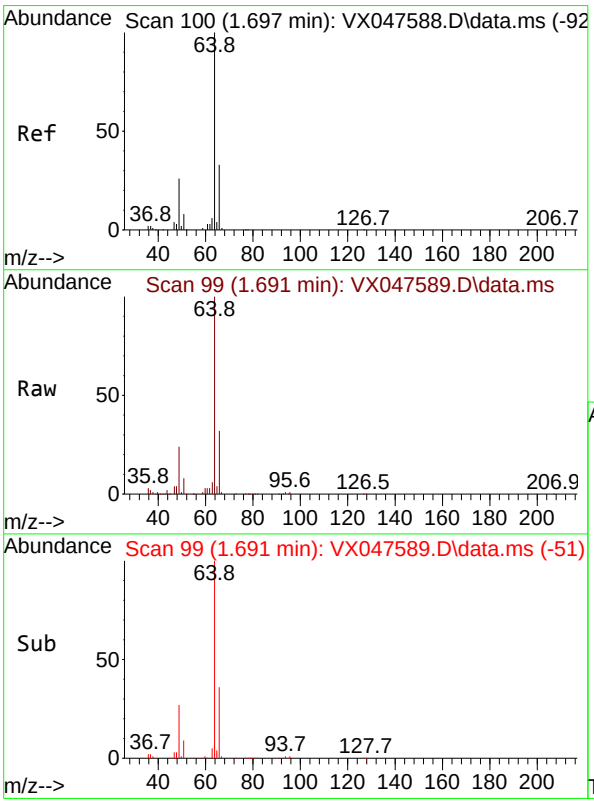
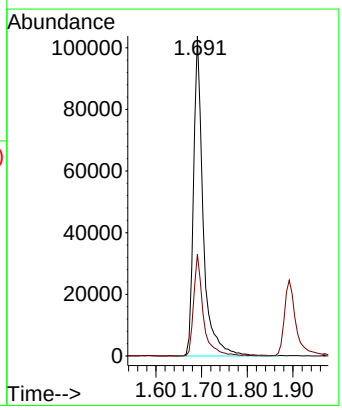
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

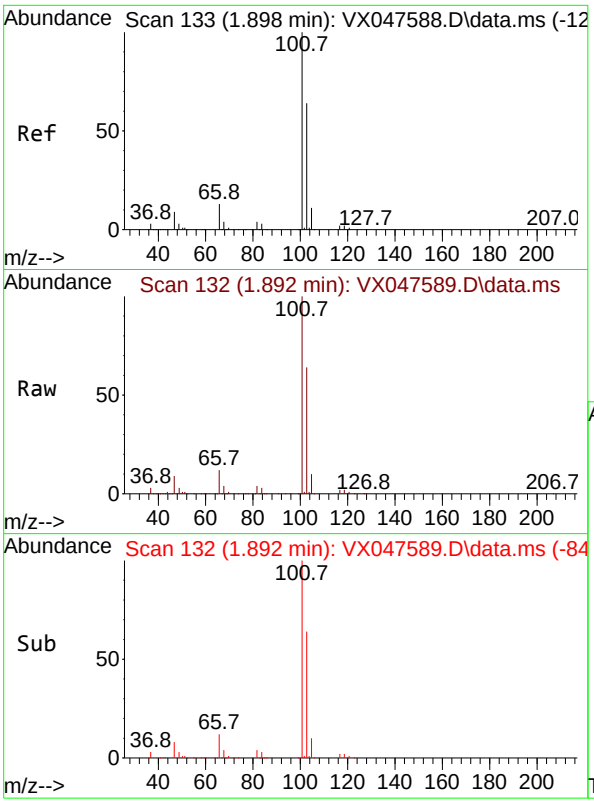


#6
Chloroethane
Concen: 101.167 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 64 Resp: 152487

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.1	39.1

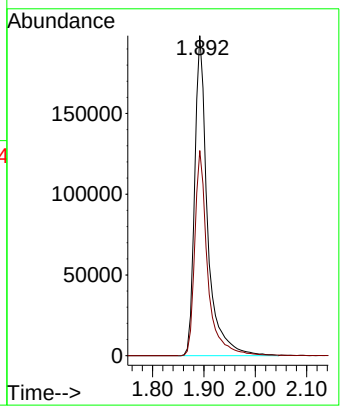




#7
Trichlorofluoromethane
Concen: 102.878 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:101 Resp: 34448

Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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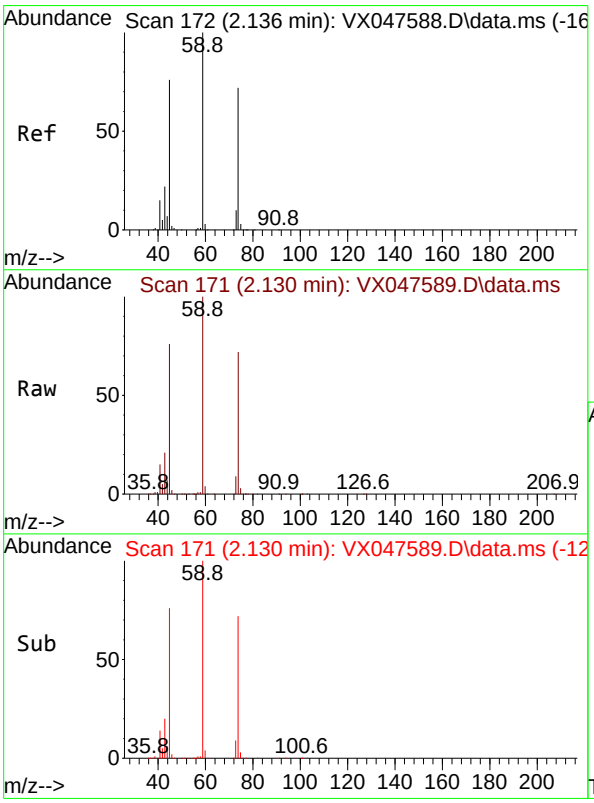
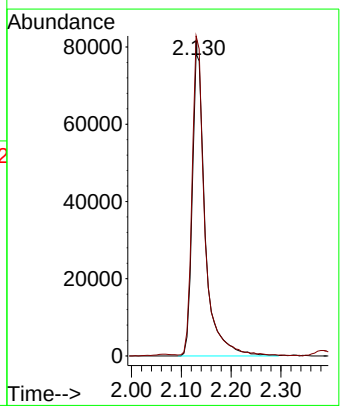
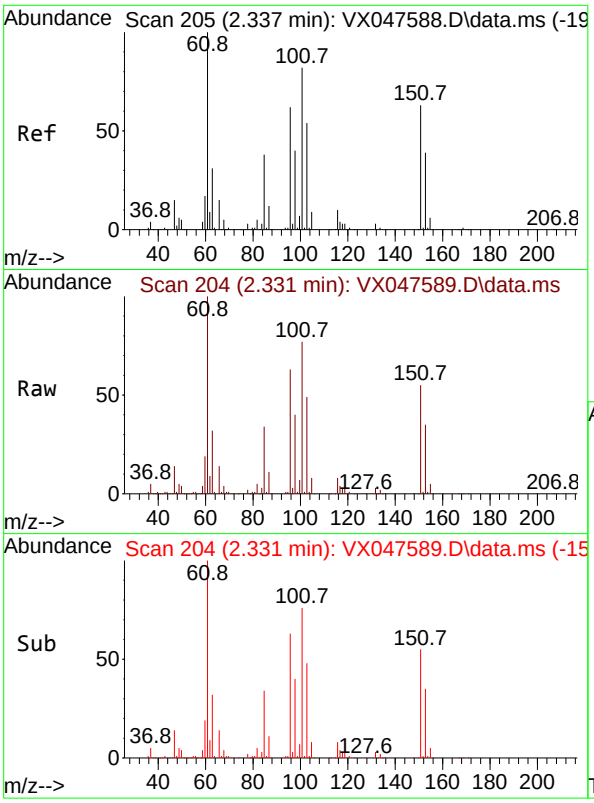


#8
Diethyl Ether
Concen: 103.695 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 74 Resp: 142038

Ion	Ratio	Lower	Upper
74	100		
45	104.6	52.3	156.8

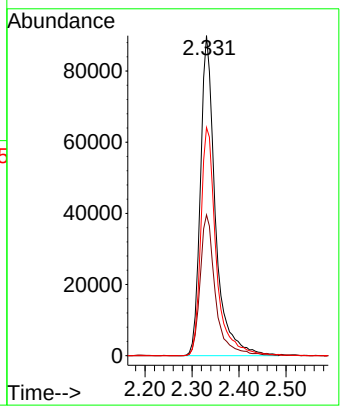




#9
1,1,2-Trichlorotrifluoroethane
Concen: 102.067 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:101 Resp: 19984

Ion	Ratio	Lower	Upper
101	100		
85	45.1	35.5	53.3
151	73.6	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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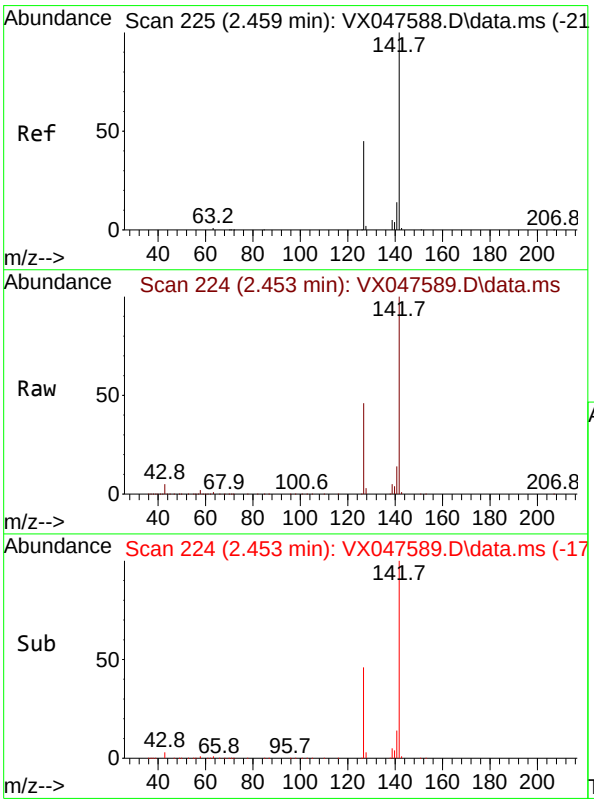
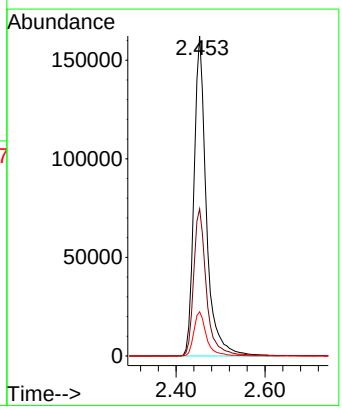
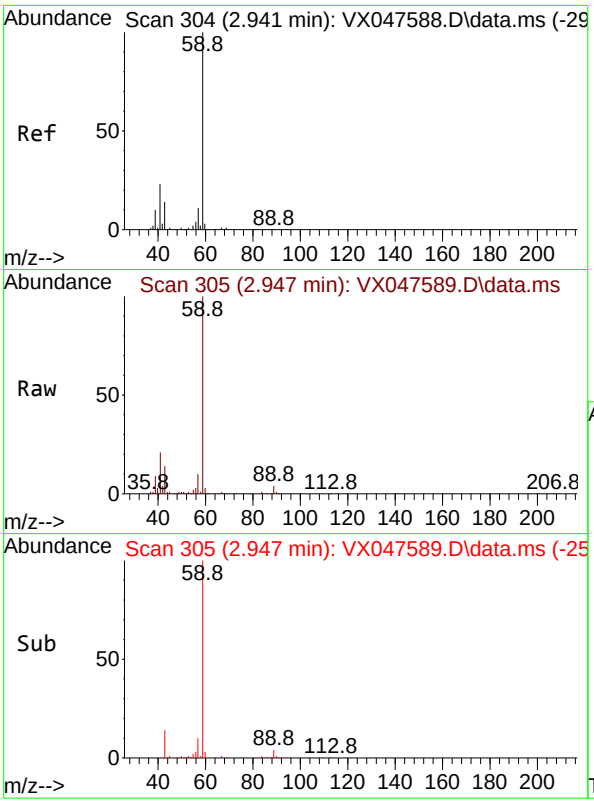


#10
Methyl Iodide
Concen: 102.531 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:142 Resp: 313092

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.1	11.4	17.0

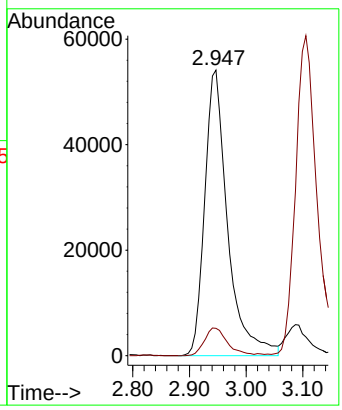




#11
Tert butyl alcohol
Concen: 506.863 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 59 Resp: 15210

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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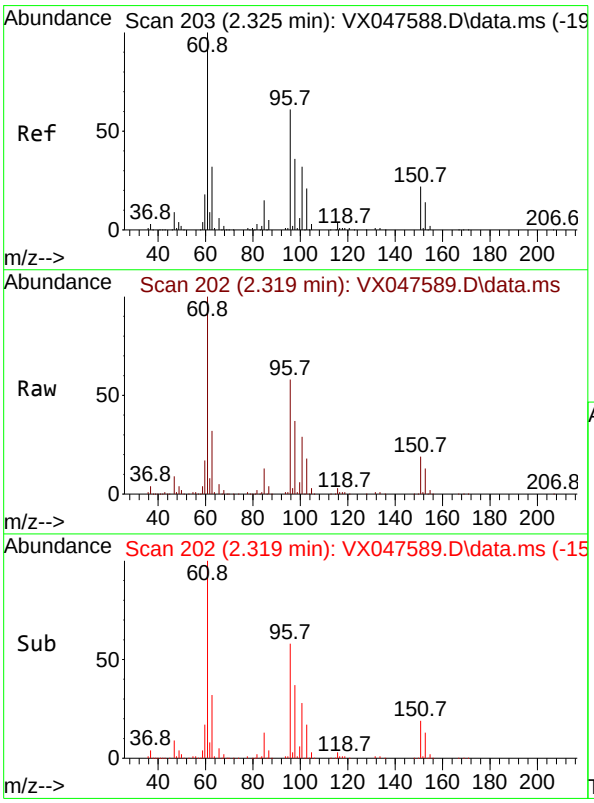
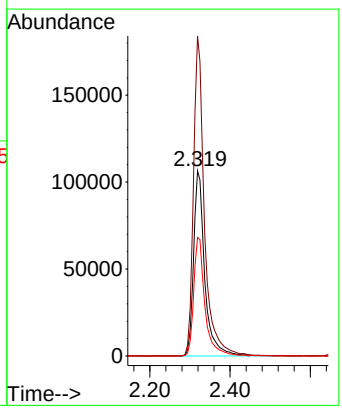
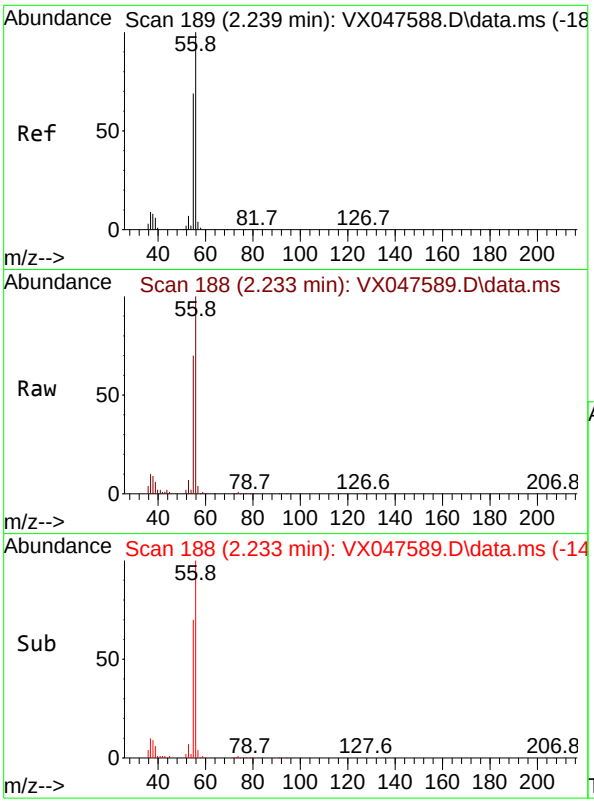


#12
1,1-Dichloroethene
Concen: 102.473 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 206097

Ion	Ratio	Lower	Upper
96	100		
61	172.9	131.0	196.6
98	64.0	47.7	71.5

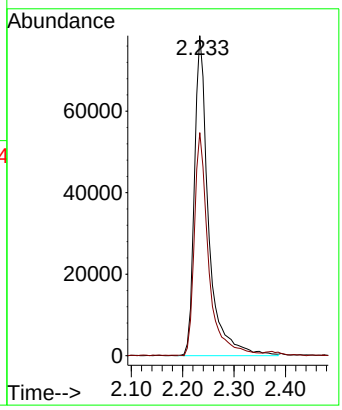




#13
Acrolein
Concen: 545.276 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 56 Resp: 15079

Ion	Ratio	Lower	Upper
56	100		
55	69.4	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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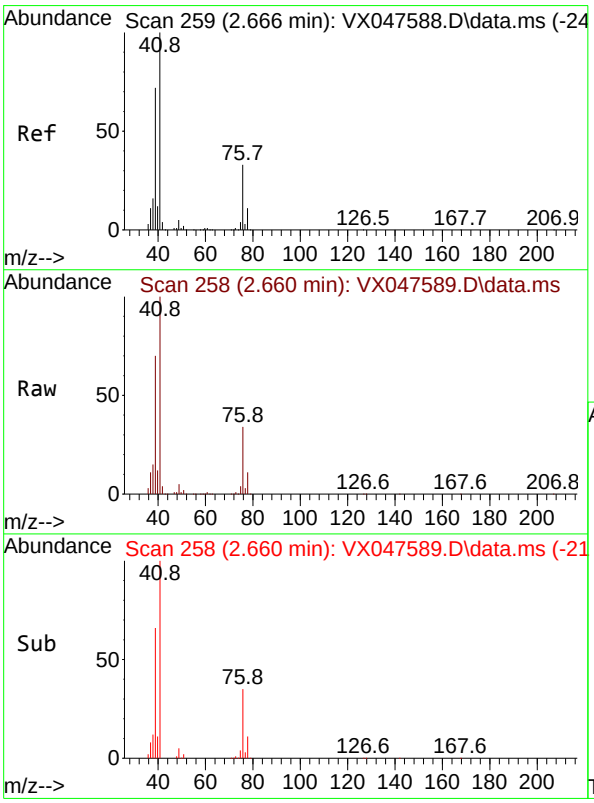
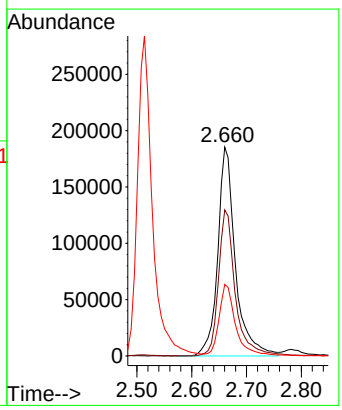
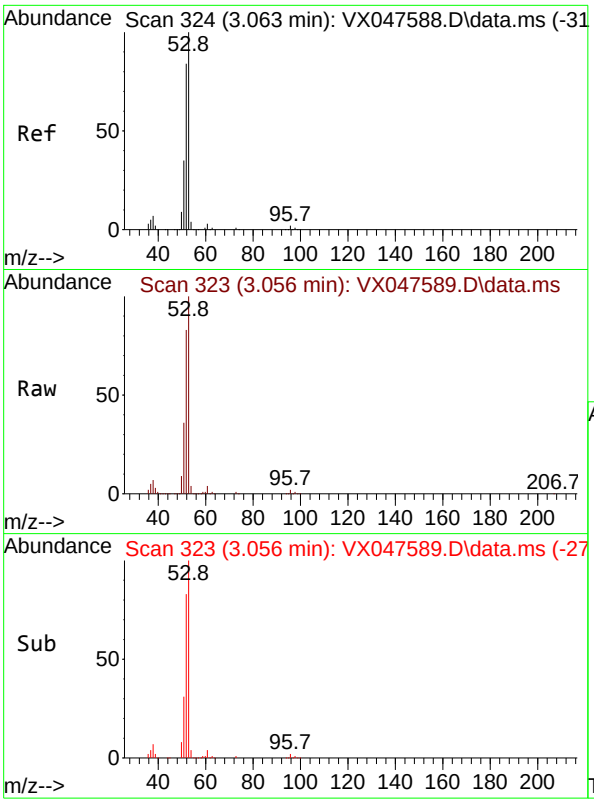


#14
Allyl chloride
Concen: 100.028 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 415140

Ion	Ratio	Lower	Upper
41	100		
39	67.0	54.7	82.1
76	32.2	25.7	38.5

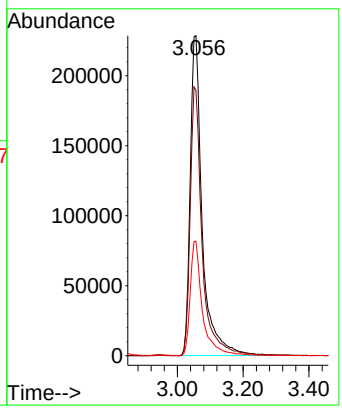




#15
Acrylonitrile
Concen: 522.897 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 53 Resp: 58124

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.4	99.6
51	36.4	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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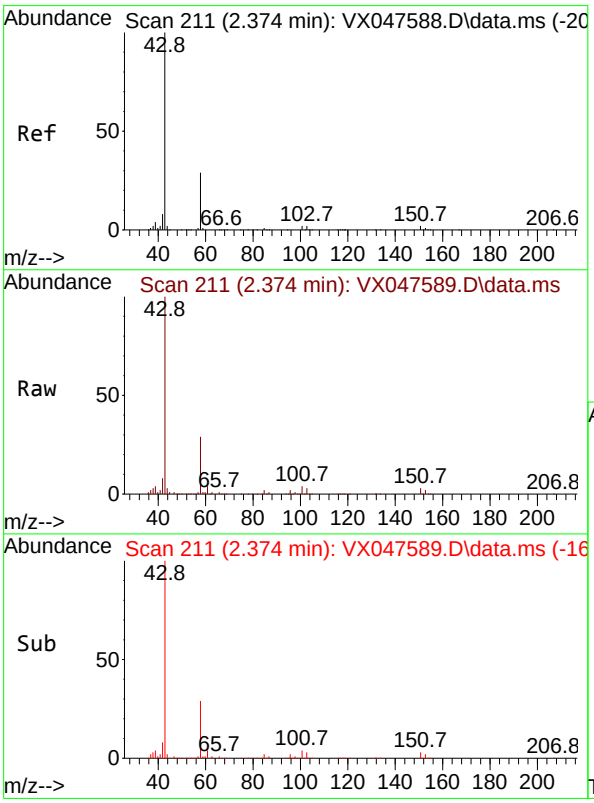
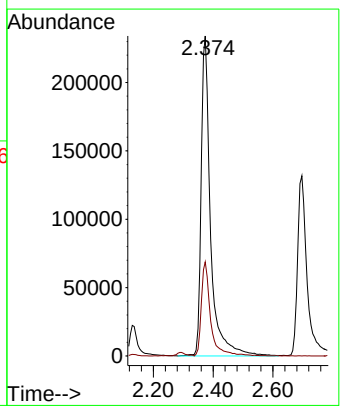
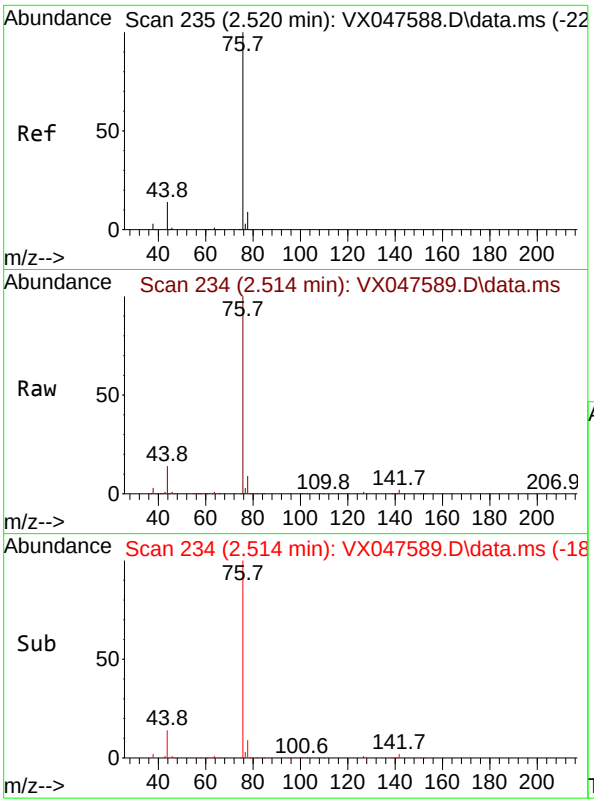


#16
Acetone
Concen: 435.772 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 510542

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0

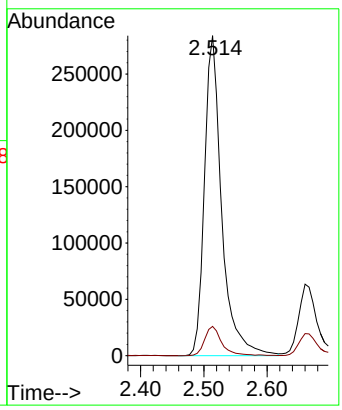




#17
Carbon Disulfide
Concen: 97.693 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 76 Resp: 53788

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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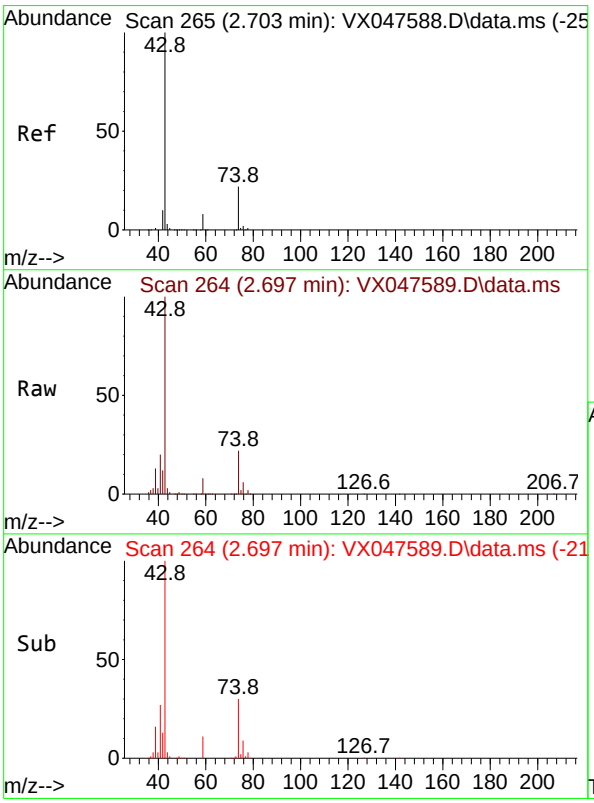
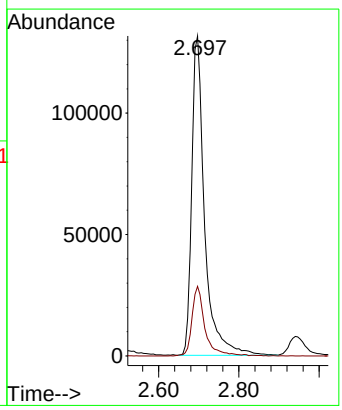
Supervised By :Mahesh Dadoda 09/18/2025

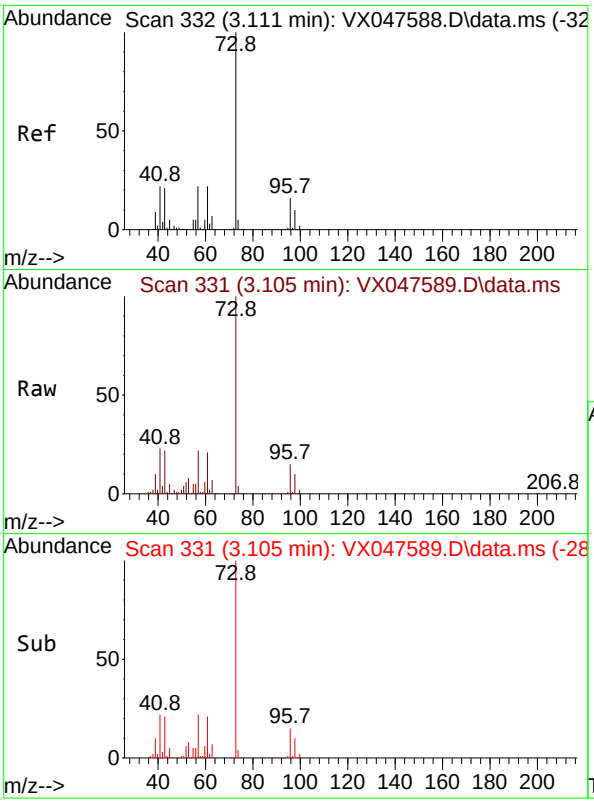


#18
Methyl Acetate
Concen: 112.324 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 292867

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

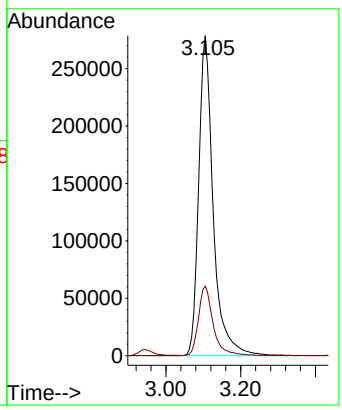




#19
Methyl tert-butyl Ether
Concen: 102.011 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 73 Resp: 74895

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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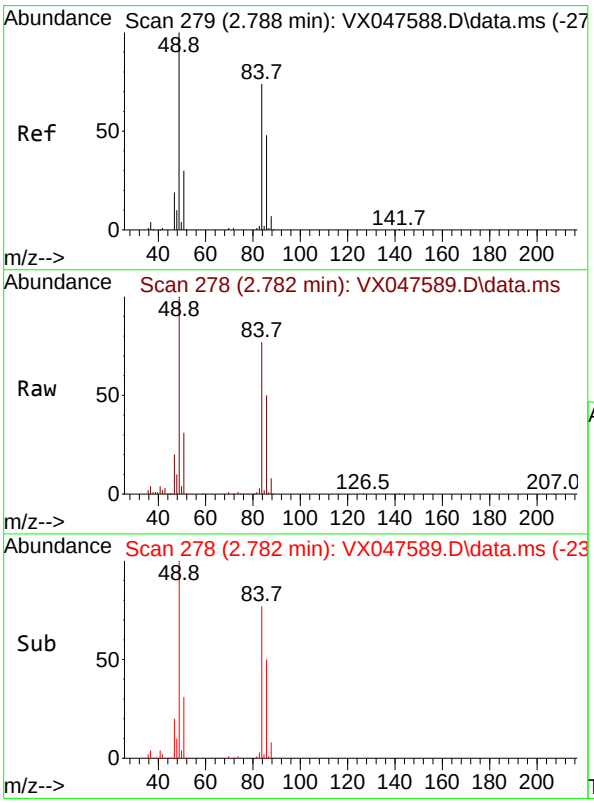
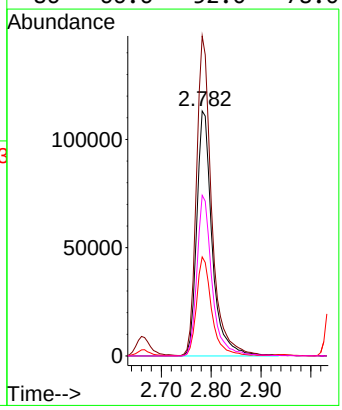
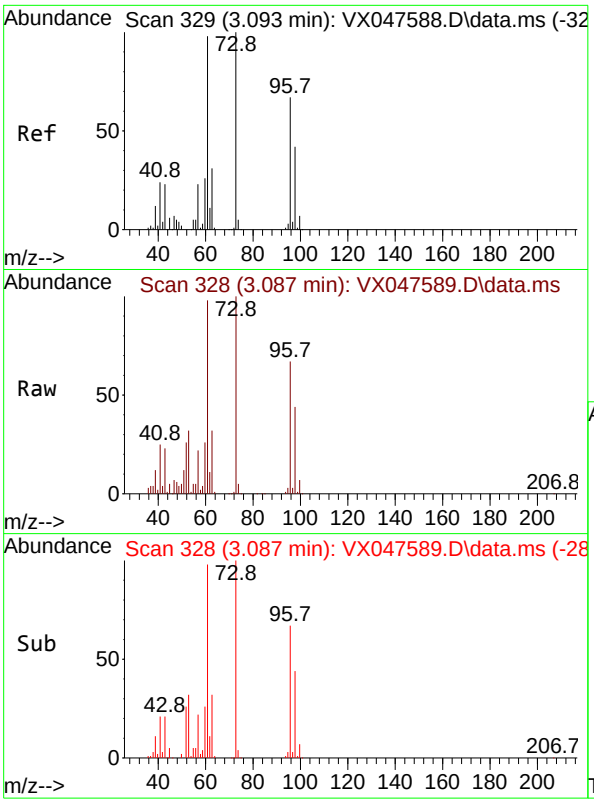


#20
Methylene Chloride
Concen: 97.805 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 84 Resp: 242548

Ion	Ratio	Lower	Upper
84	100		
49	130.4	108.6	162.8
51	40.3	32.6	48.8
86	66.6	52.0	78.0

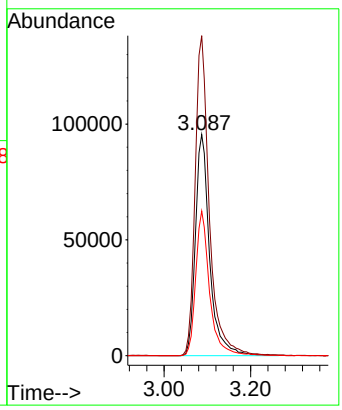




#21
trans-1,2-Dichloroethene
Concen: 100.566 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 21775

Ion	Ratio	Lower	Upper
96	100		
61	144.7	116.2	174.2
98	65.4	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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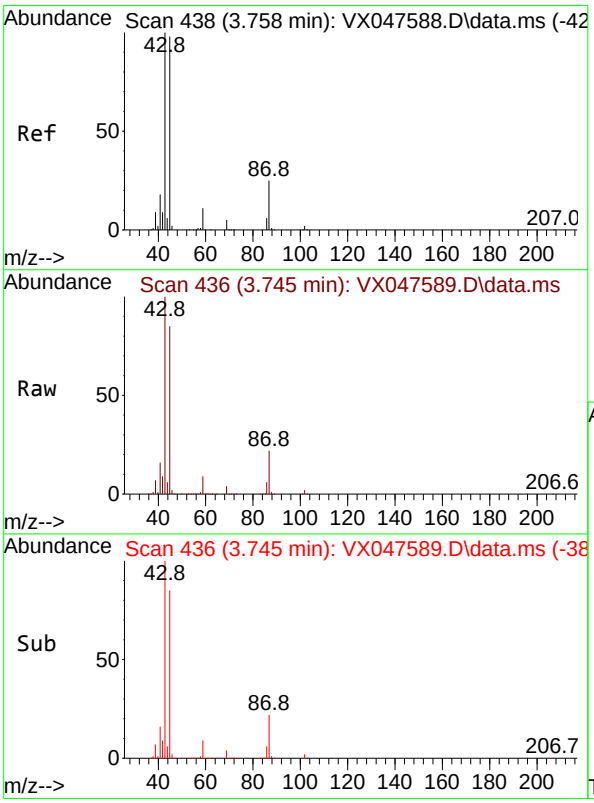
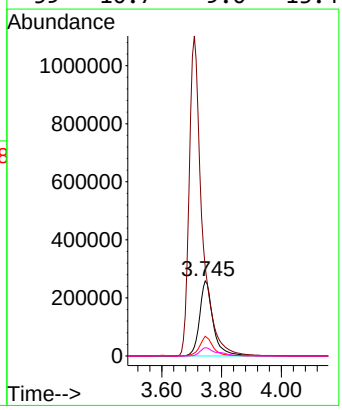
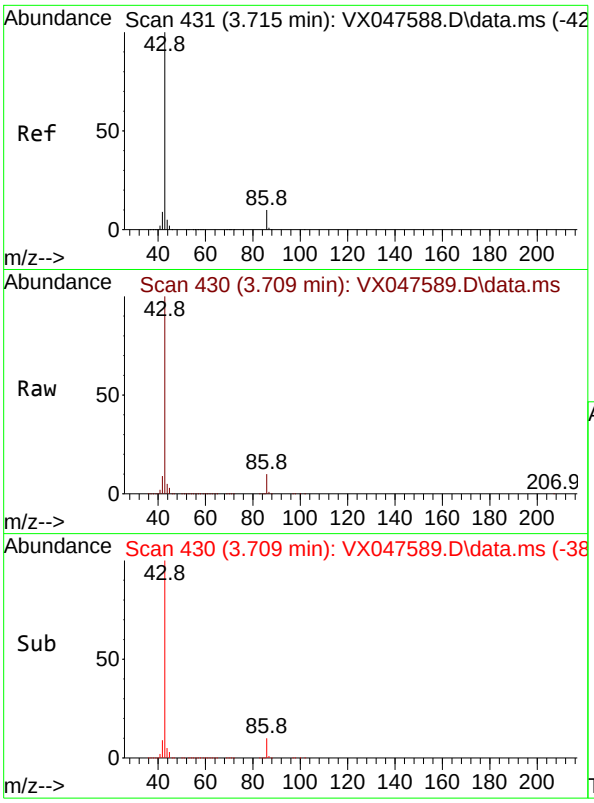


#22
Diisopropyl ether
Concen: 100.934 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 45 Resp: 811840

Ion	Ratio	Lower	Upper
45	100		
43	117.3	81.0	121.4
87	26.1	20.3	30.5
59	10.7	9.0	13.4

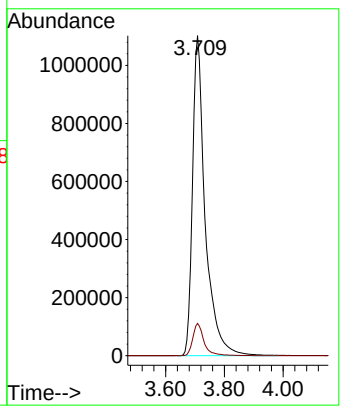




#23
Vinyl Acetate
Concen: 514.916 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 331470

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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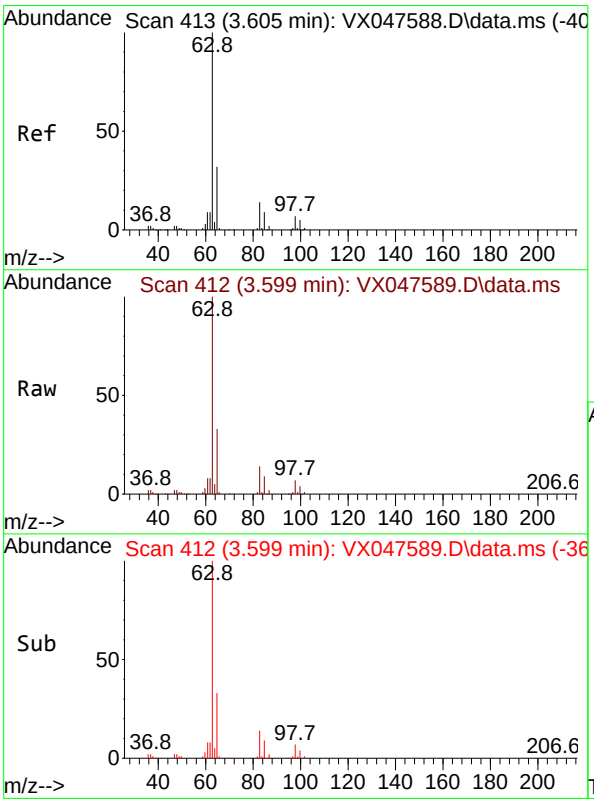
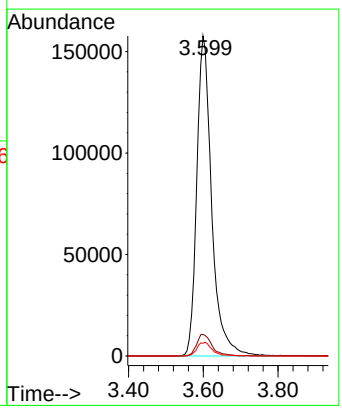
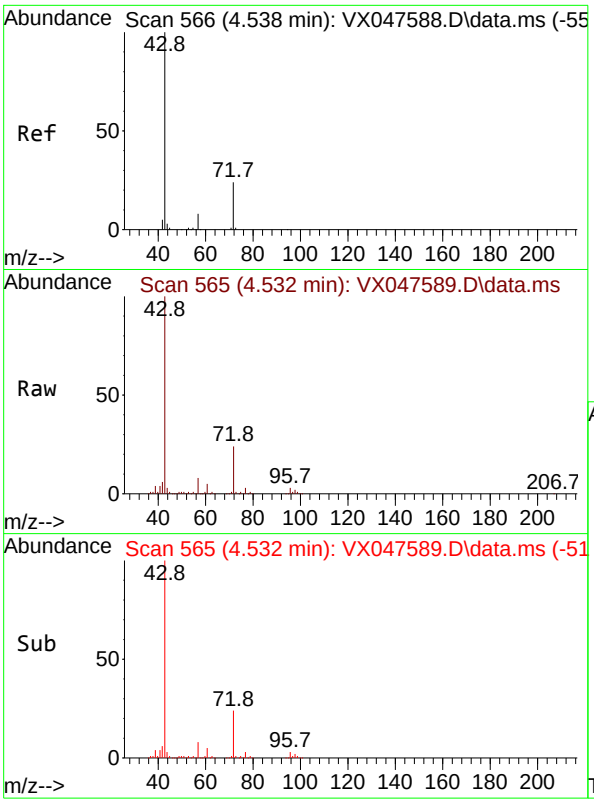


#24
1,1-Dichloroethane
Concen: 101.944 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 435815

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.0	2.3	6.9

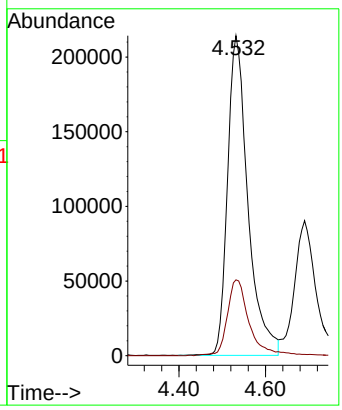




#25
2-Butanone
Concen: 479.558 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 70082

Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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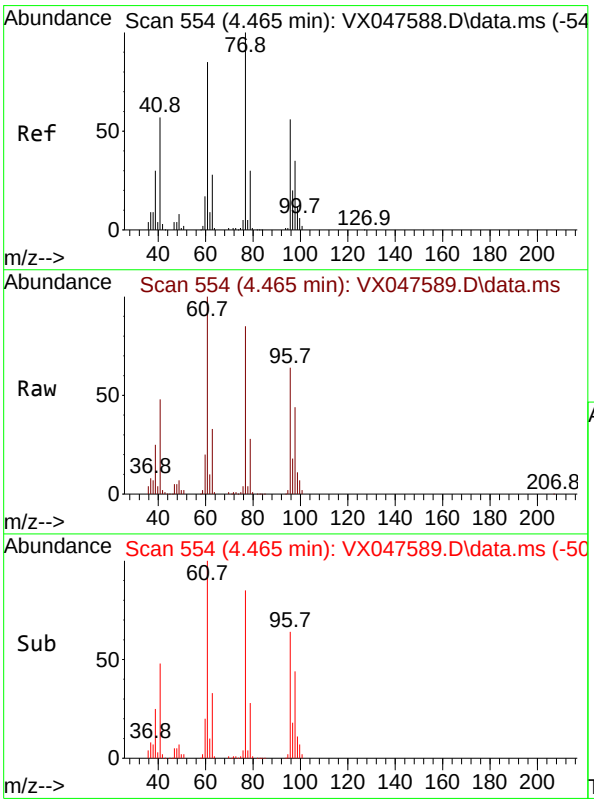
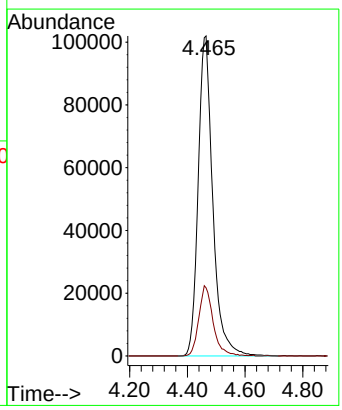
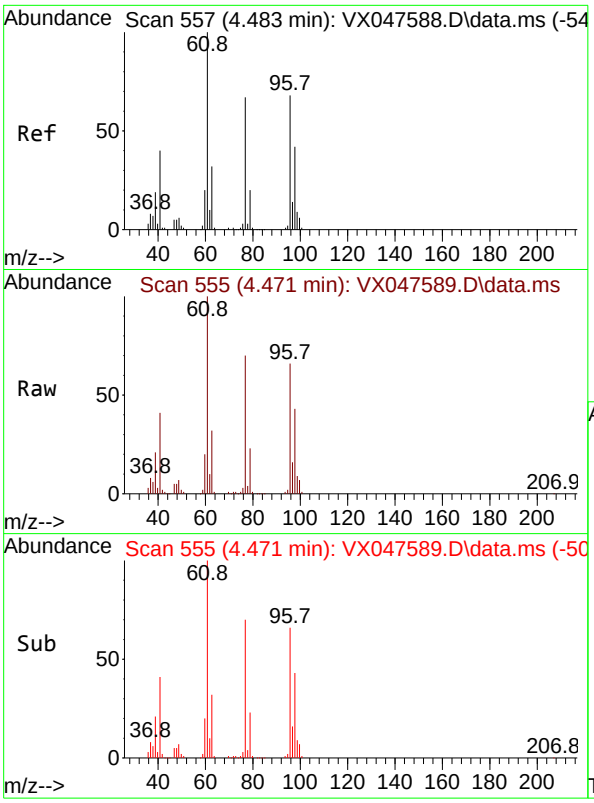


#26
2,2-Dichloropropane
Concen: 100.542 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 77 Resp: 357292

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.9	32.7

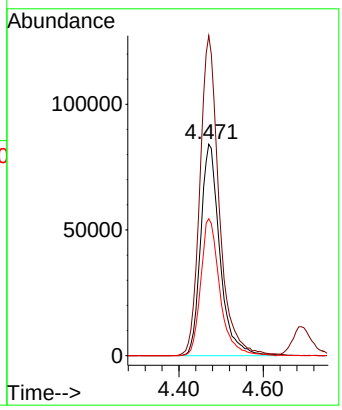




#27
cis-1,2-Dichloroethene
Concen: 100.516 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 26655

Ion	Ratio	Lower	Upper
96	100		
61	151.5	0.0	303.2
98	64.4	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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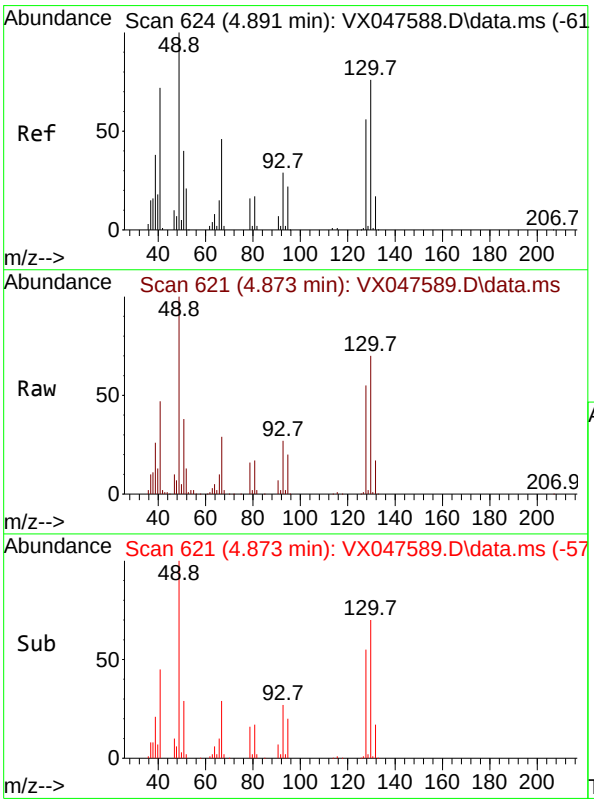
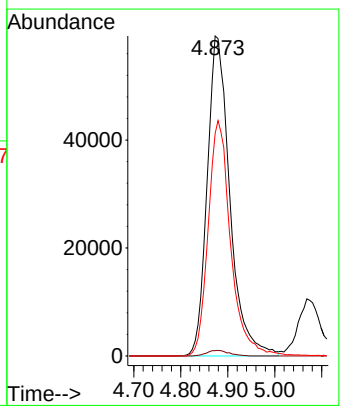
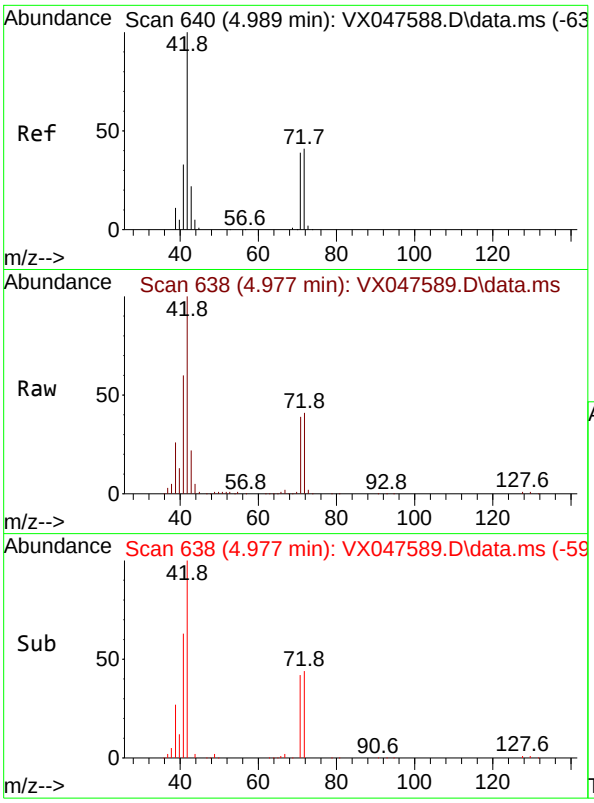


#28
Bromochloromethane
Concen: 106.512 ug/l
RT: 4.873 min Scan# 621
Delta R.T. -0.018 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 49 Resp: 198788

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	72.8	57.8	86.8





#29
Tetrahydrofuran
Concen: 504.502 ug/l
RT: 4.977 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 42 Resp: 44353

Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.2	51.2
71	39.5	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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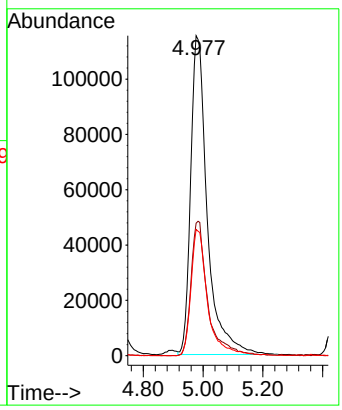
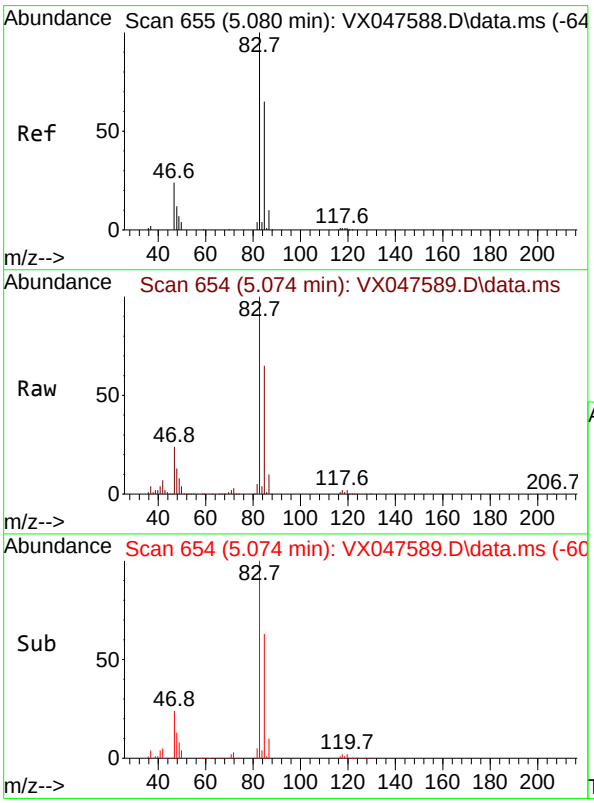
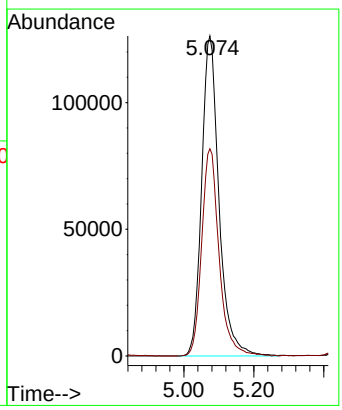


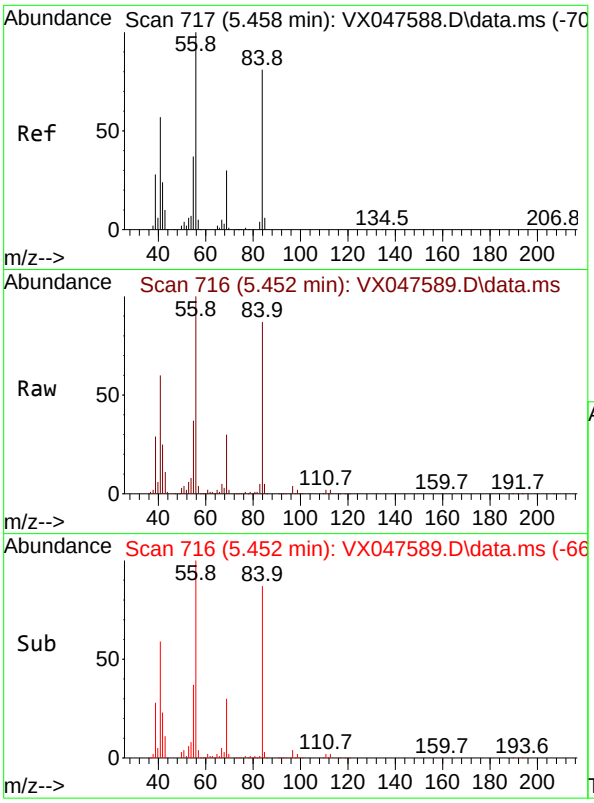


#30
Chloroform
Concen: 100.447 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 433937

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.6

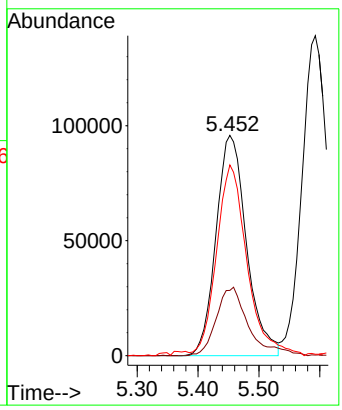




#31
Cyclohexane
Concen: 93.523 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 56 Resp: 33299

Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.8	35.8
84	84.7	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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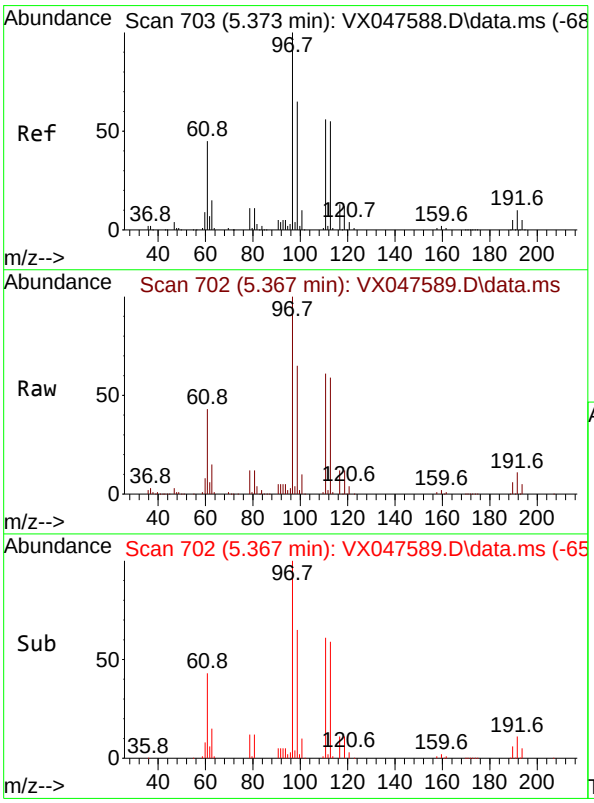
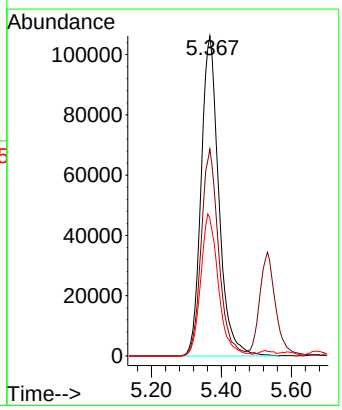
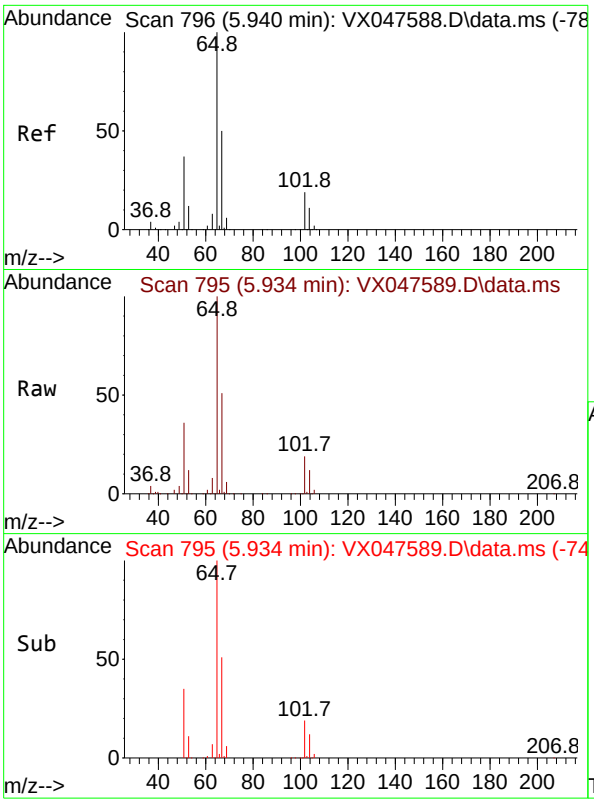


#32
1,1,1-Trichloroethane
Concen: 101.607 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 372323

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	44.4	35.8	53.8

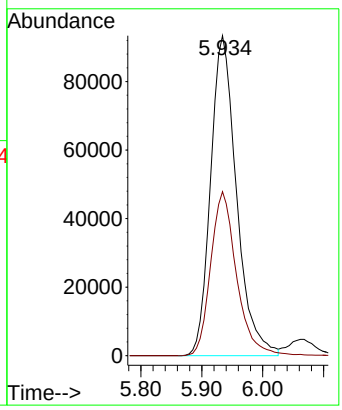




#33
1,2-Dichloroethane-d4
Concen: 102.341 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 65 Resp: 27575

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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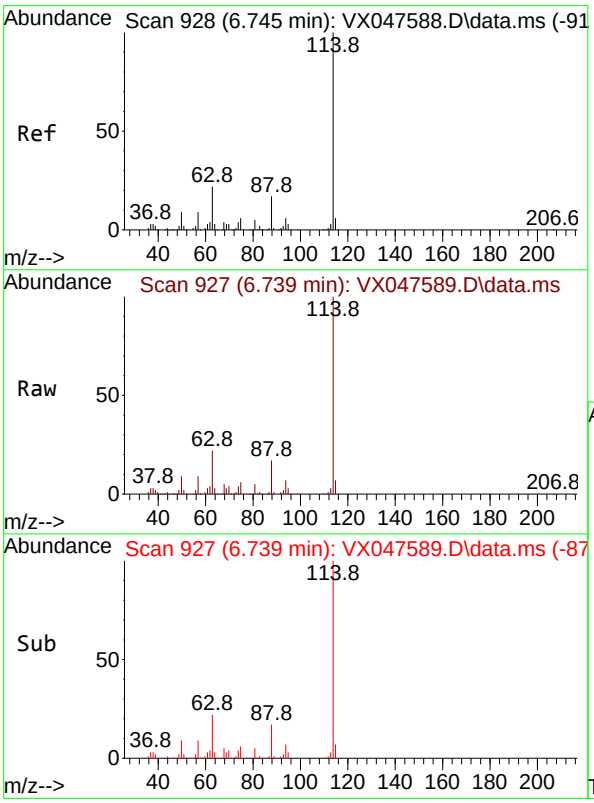
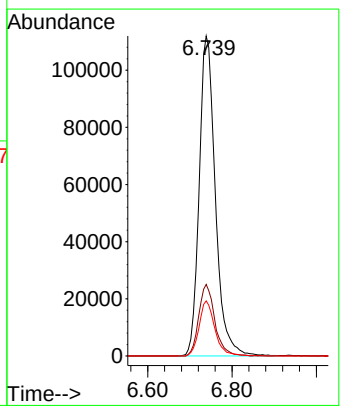
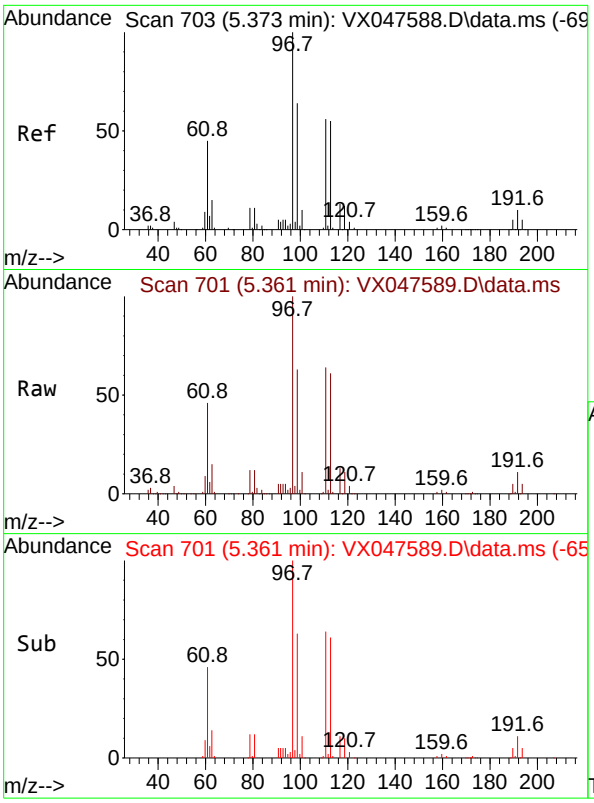


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:114 Resp: 298913

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	17.2	0.0	34.2

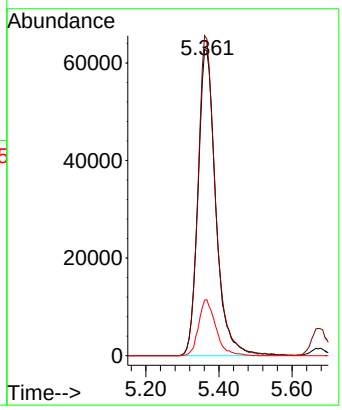




#35
Dibromofluoromethane
Concen: 105.962 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:113 Resp: 21241

Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.9	121.3
192	17.7	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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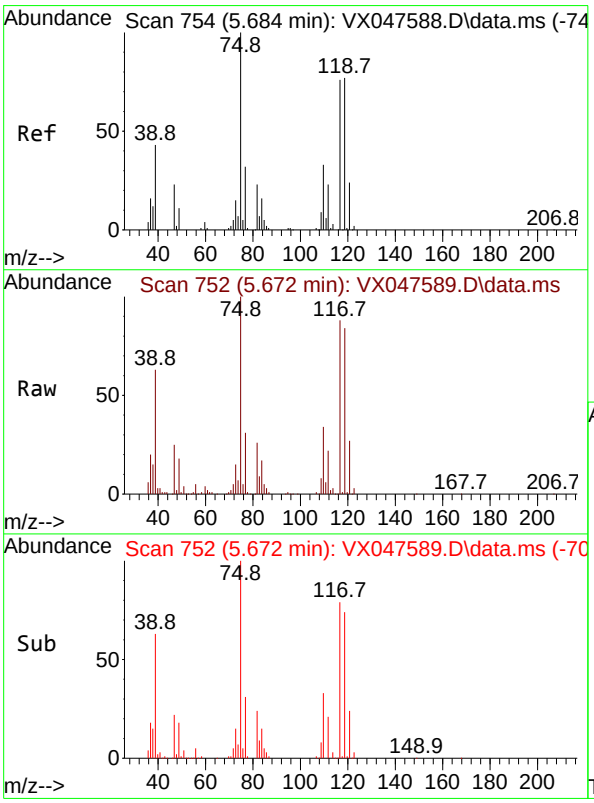
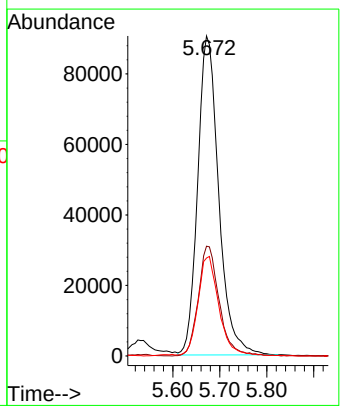
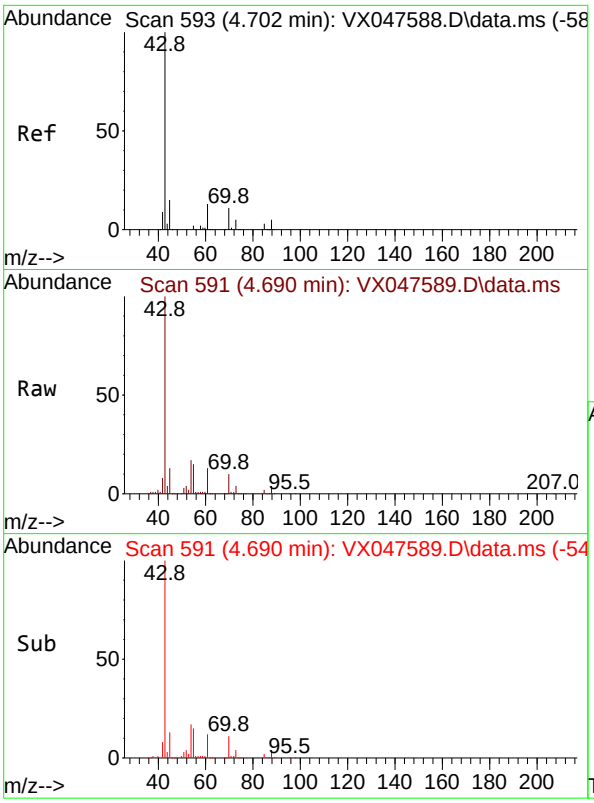


#36
1,1-Dichloropropene
Concen: 96.149 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 281650

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.7	50.1
77	31.3	24.3	36.5

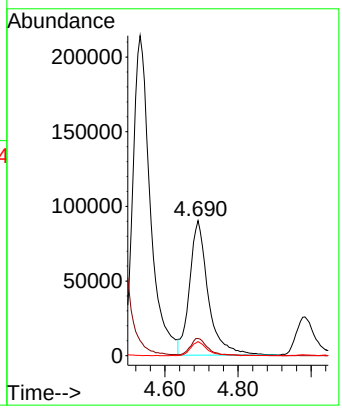




#37
Ethyl Acetate
Concen: 101.641 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 31879

Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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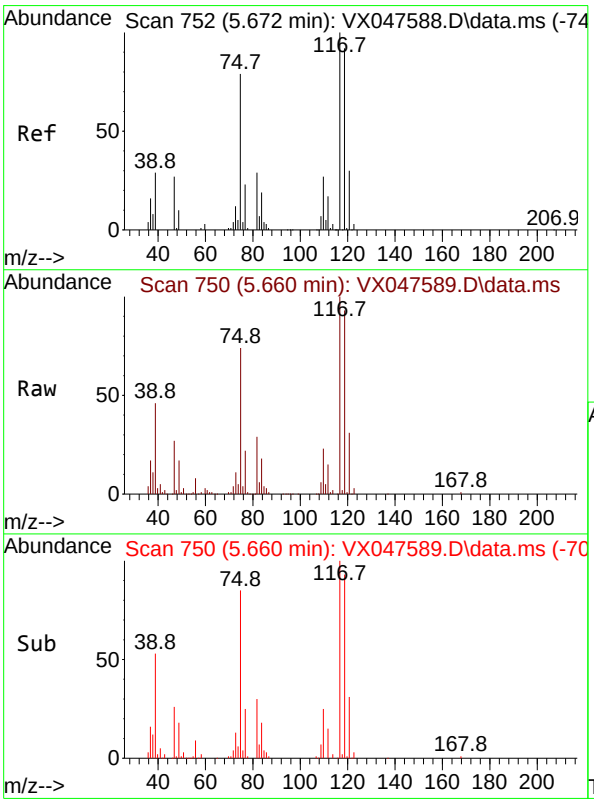
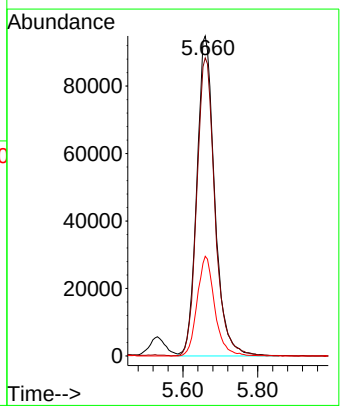
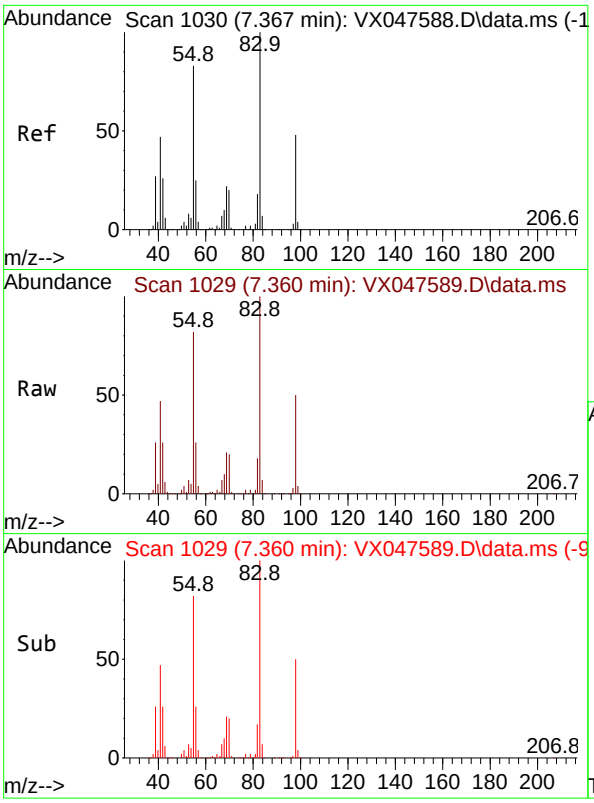


#38
Carbon Tetrachloride
Concen: 98.891 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 314745

Ion	Ratio	Lower	Upper
117	100		
119	93.0	73.4	110.2
121	31.2	23.8	35.6

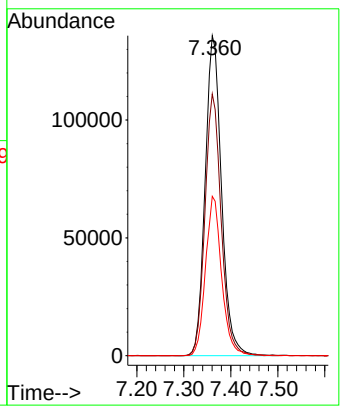




#39
Methylcyclohexane
Concen: 98.600 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 32785

Ion	Ratio	Lower	Upper
83	100		
55	81.8	66.4	99.6
98	49.8	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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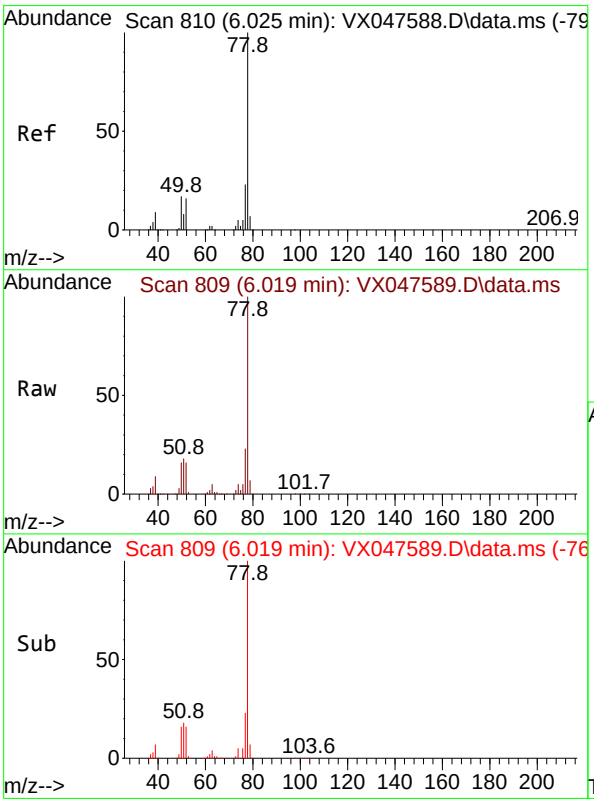
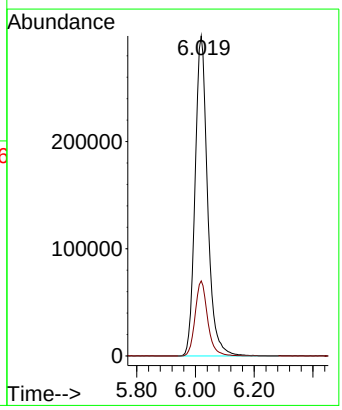
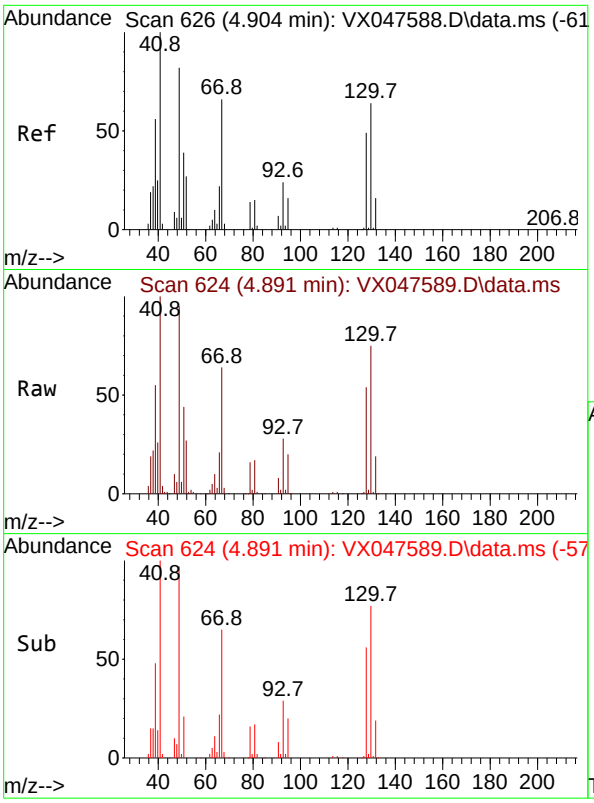


#40
Benzene
Concen: 99.009 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 78 Resp: 880885

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

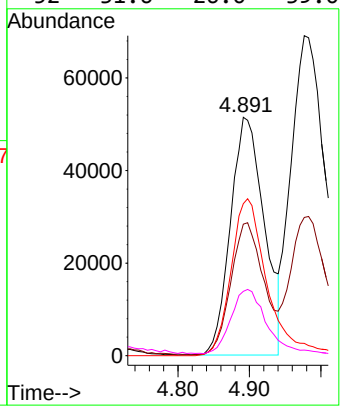




#41
Methacrylonitrile
Concen: 104.220 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 16875

Ion	Ratio	Lower	Upper
41	100		
39	54.6	43.3	64.9
67	72.1	58.6	87.8
52	31.6	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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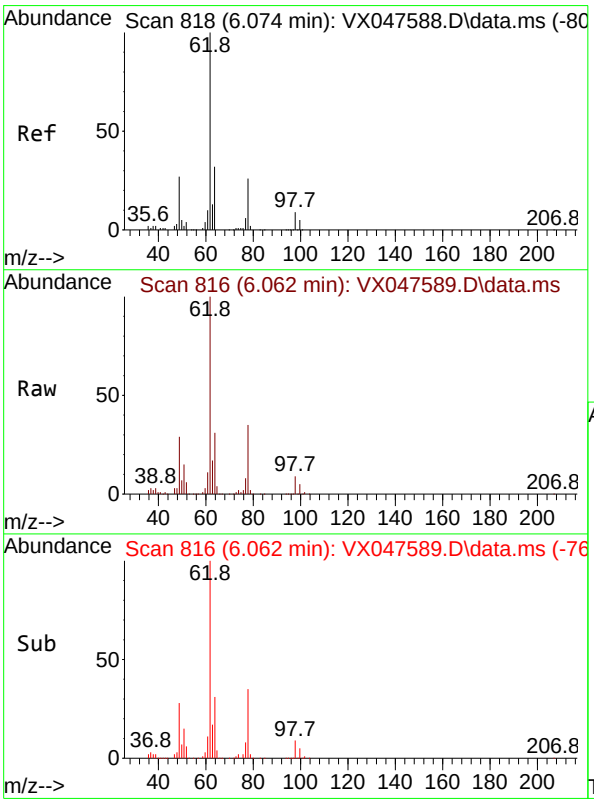
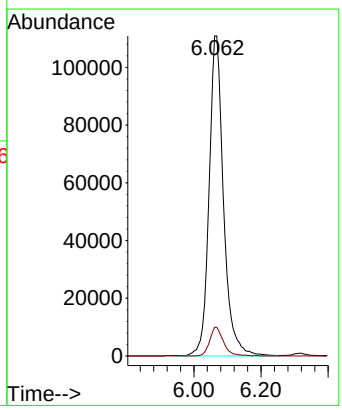
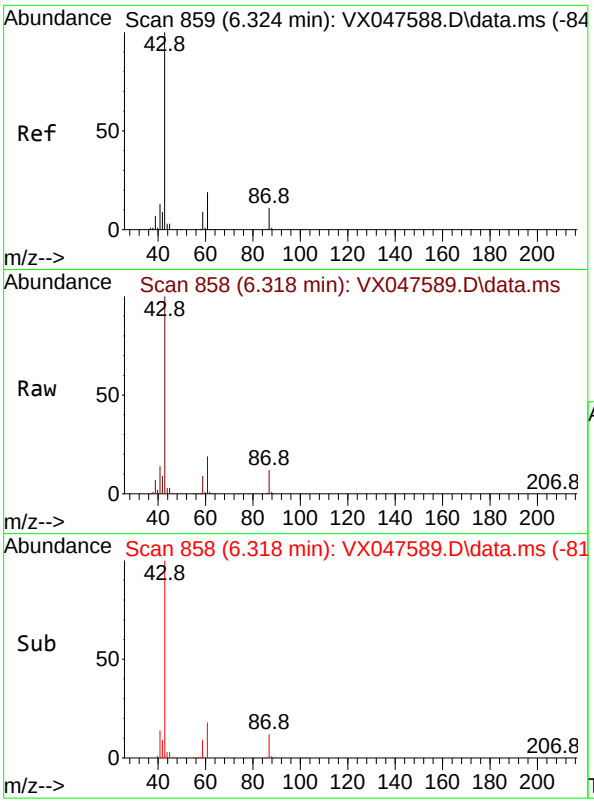


#42
1,2-Dichloroethane
Concen: 97.916 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 331465

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.0

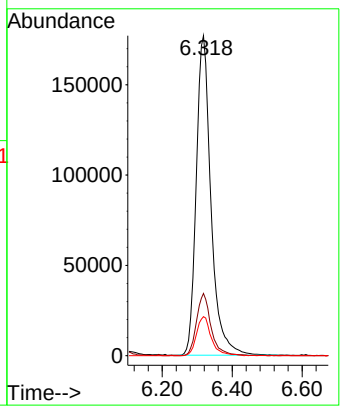




#43
Isopropyl Acetate
Concen: 100.482 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 51687

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.3	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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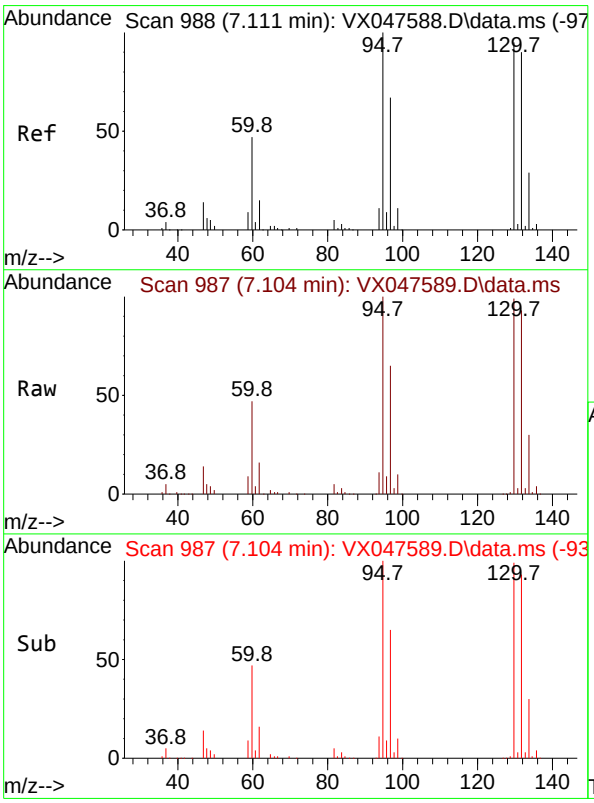
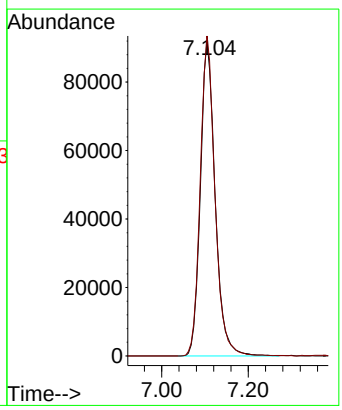
Supervised By :Mahesh Dadoda 09/18/2025

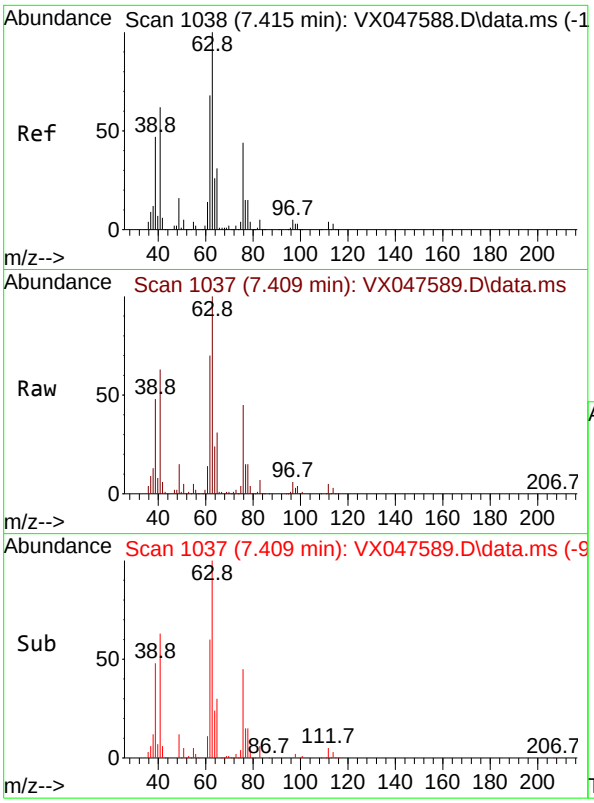


#44
Trichloroethene
Concen: 101.234 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:130 Resp: 217753

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	210.8





#45
1,2-Dichloropropane
Concen: 100.145 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 22815

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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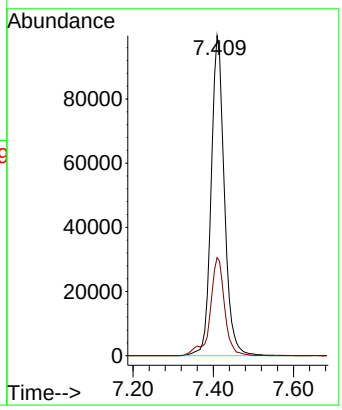
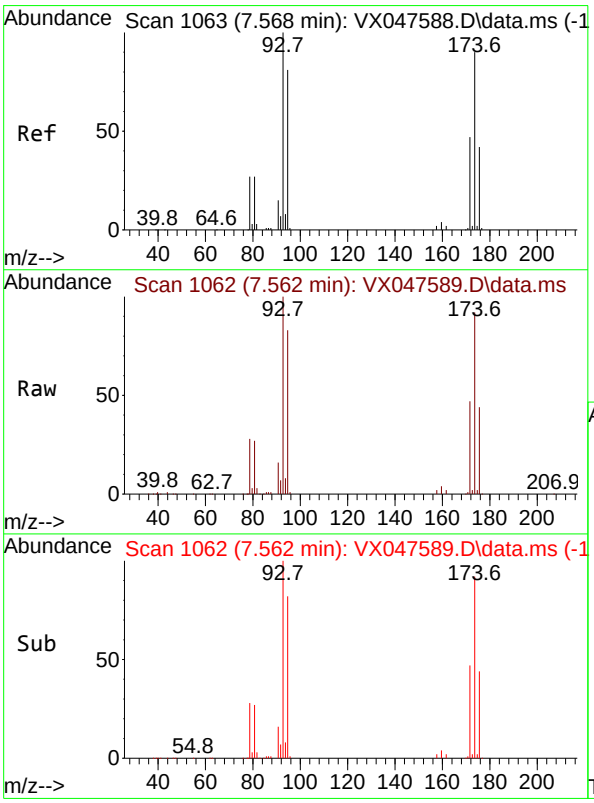
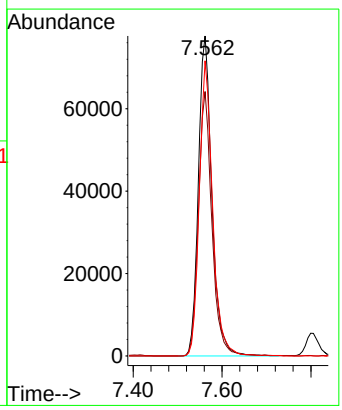


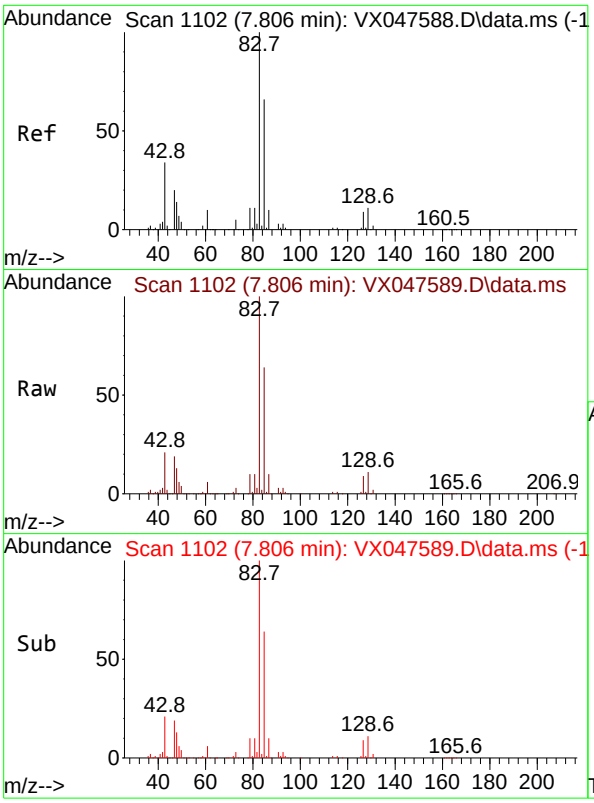


#46
Dibromomethane
Concen: 99.519 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 93 Resp: 164987

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.0	97.6
174	90.5	71.6	107.4

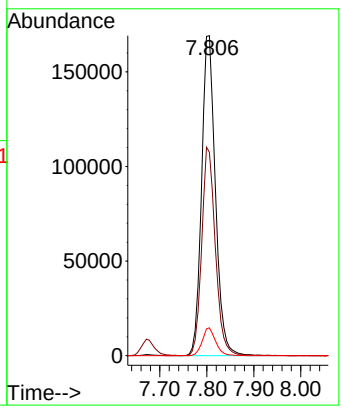




#47
Bromodichloromethane
Concen: 101.136 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 34599

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.7	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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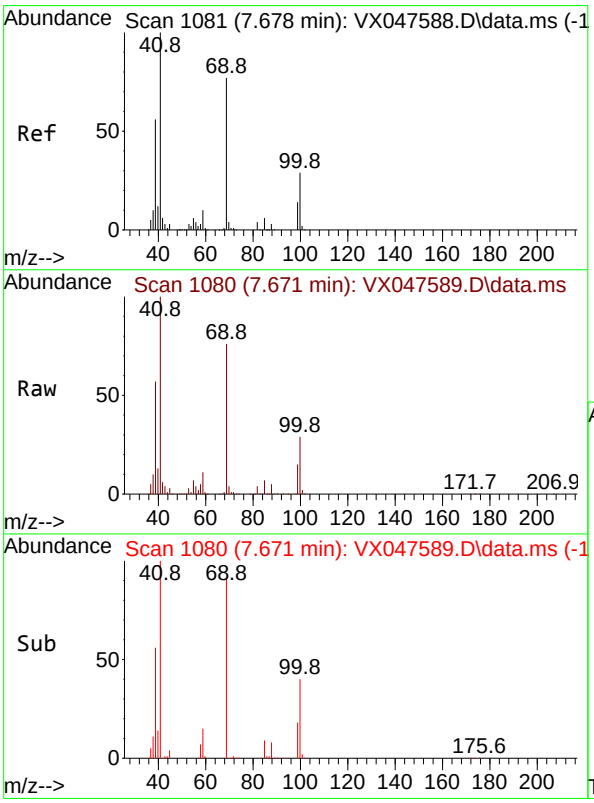
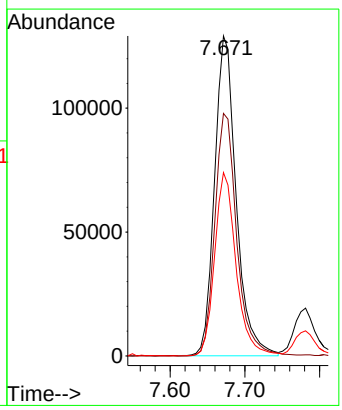
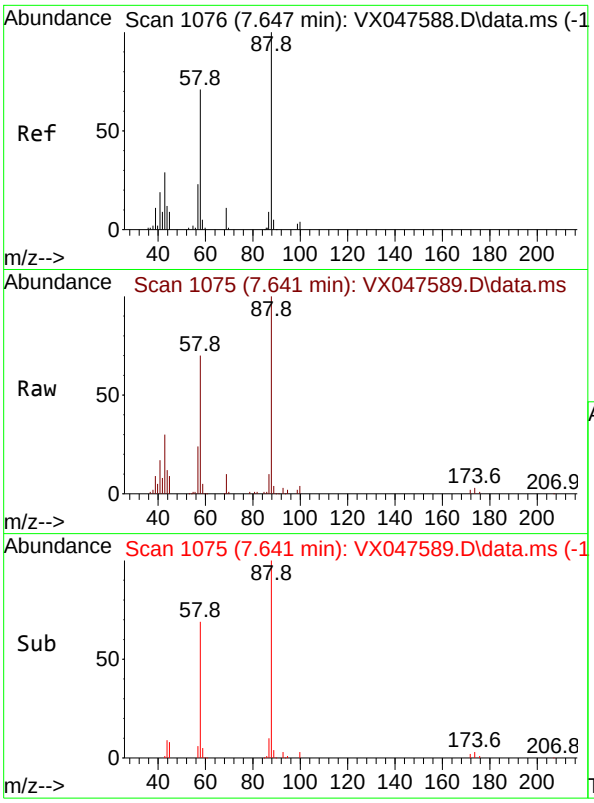


#48
Methyl methacrylate
Concen: 101.612 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 260358

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	57.0	45.8	68.6

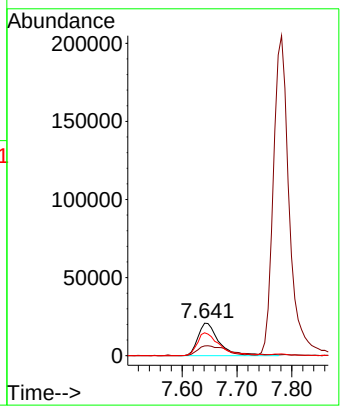




#49
1,4-Dioxane
Concen: 2190.315 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 88 Resp: 5671

Ion	Ratio	Lower	Upper
88	100		
43	39.4	30.2	45.2
58	74.0	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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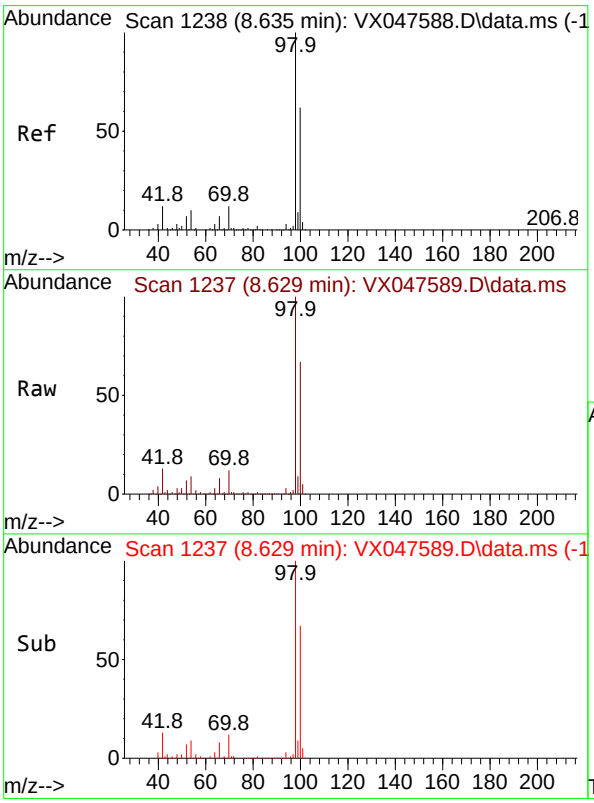
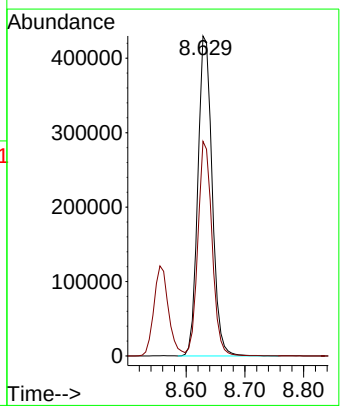
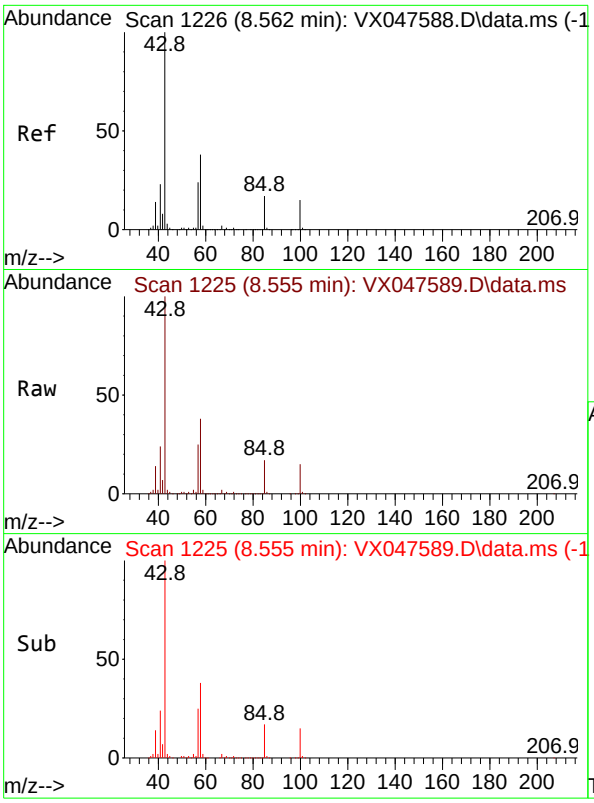


#50
Toluene-d8
Concen: 104.386 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 98 Resp: 724078

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4

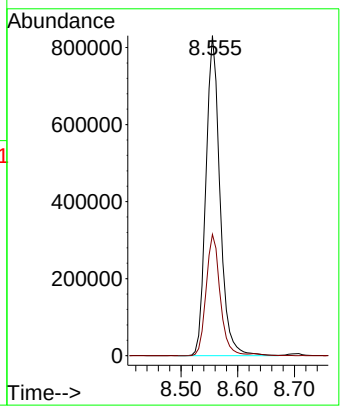




#51
4-Methyl-2-Pentanone
Concen: 501.834 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 143125

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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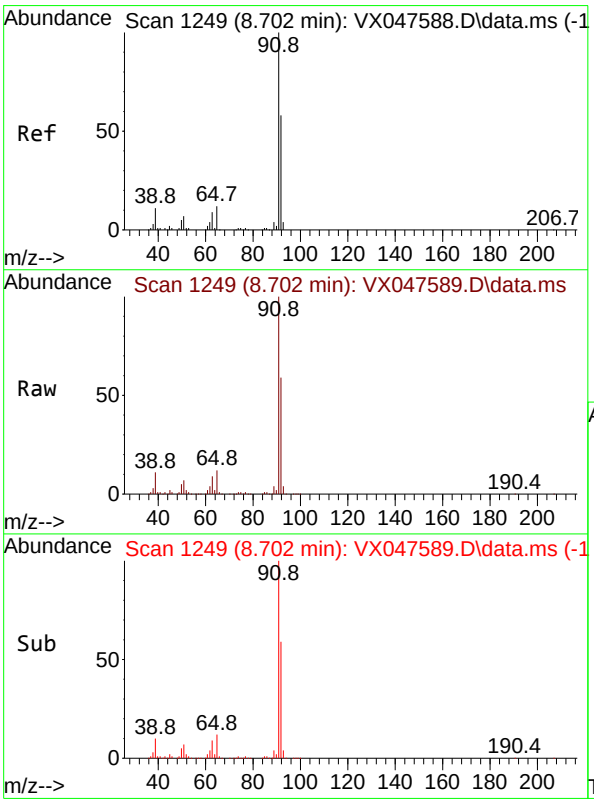
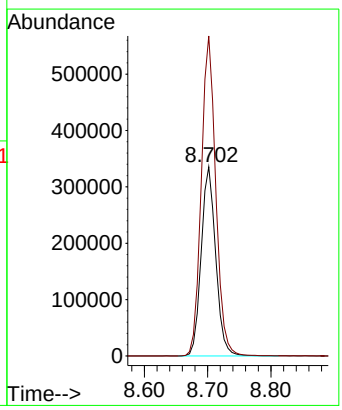
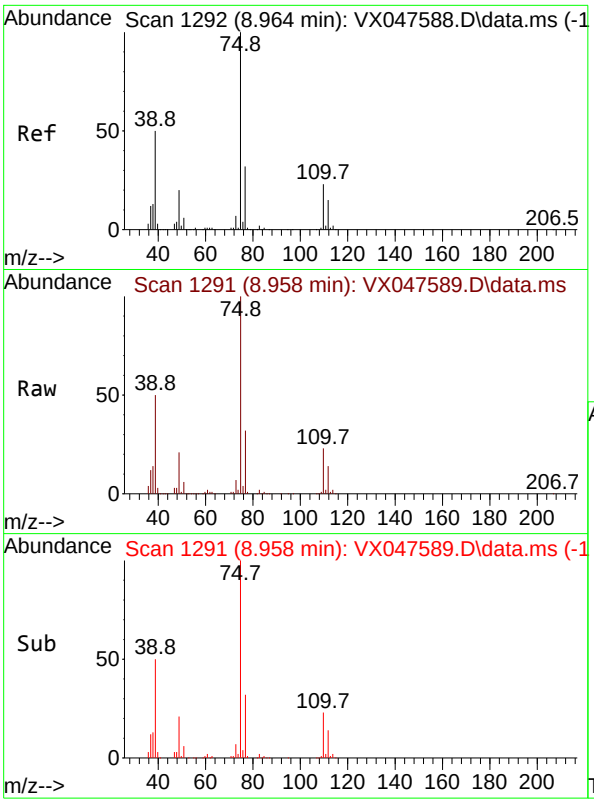


#52
Toluene
Concen: 97.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 92 Resp: 536148

Ion	Ratio	Lower	Upper
92	100		
91	169.3	137.1	205.7

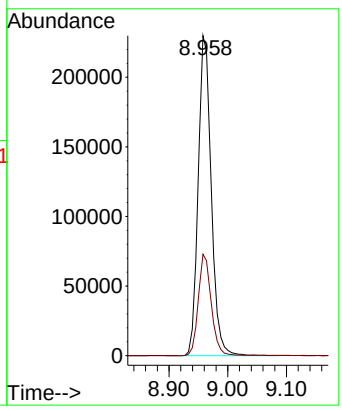




#53
t-1,3-Dichloropropene
Concen: 101.986 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 35588

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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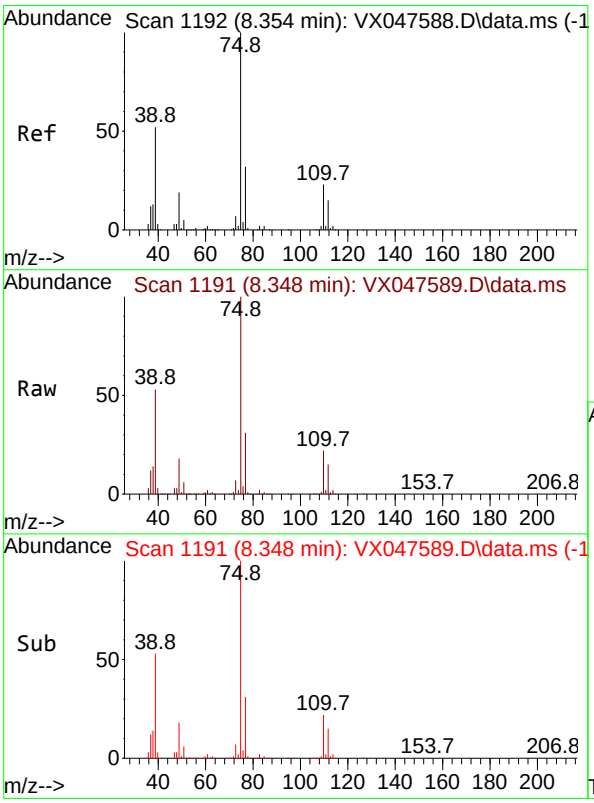
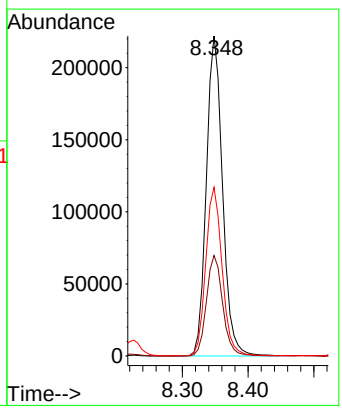
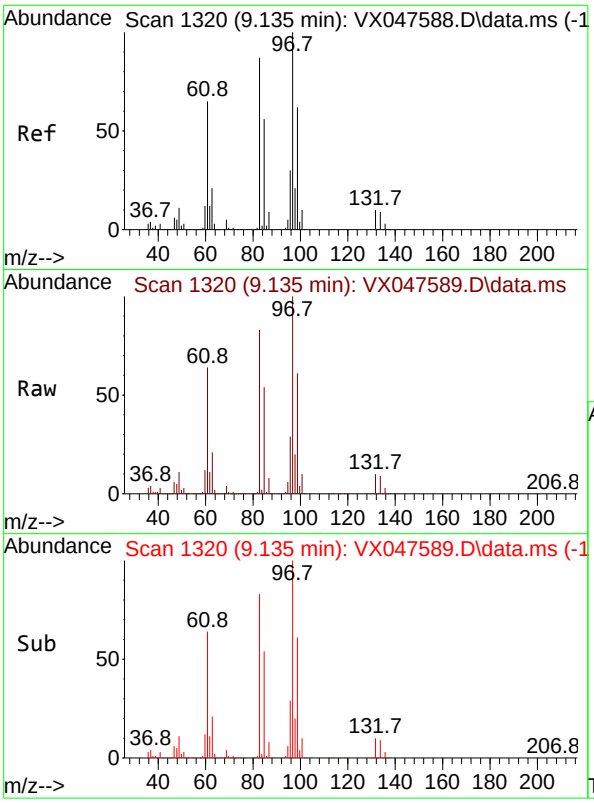


#54
cis-1,3-Dichloropropene
Concen: 102.038 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 380577

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	52.3	41.4	62.2

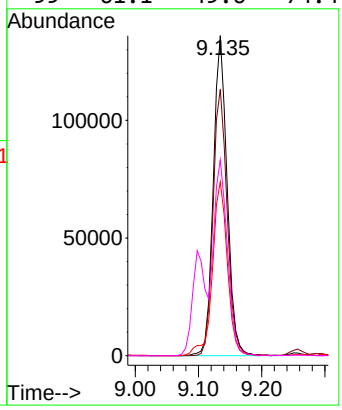




#55
1,1,2-Trichloroethane
Concen: 97.434 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 20593

Ion	Ratio	Lower	Upper
97	100		
83	83.2	69.6	104.4
85	54.3	45.0	67.6
99	61.1	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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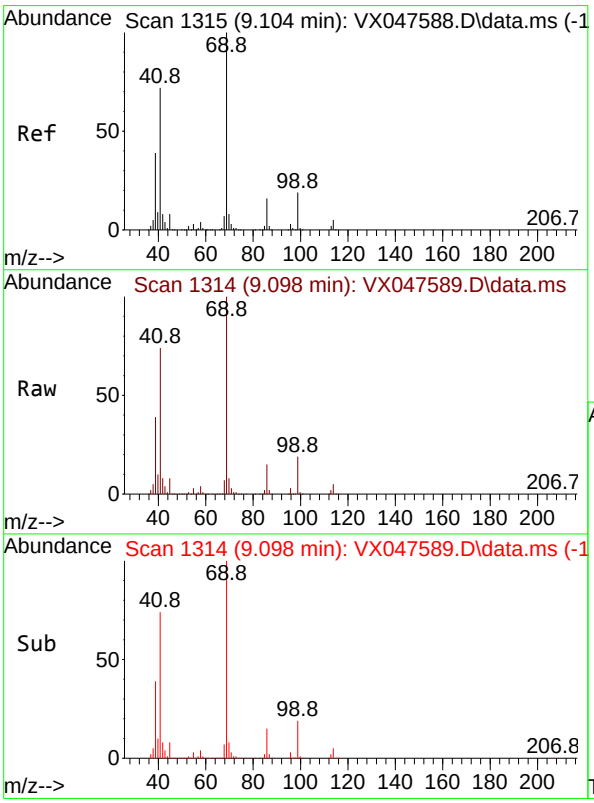
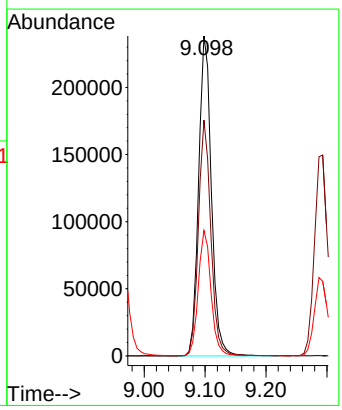
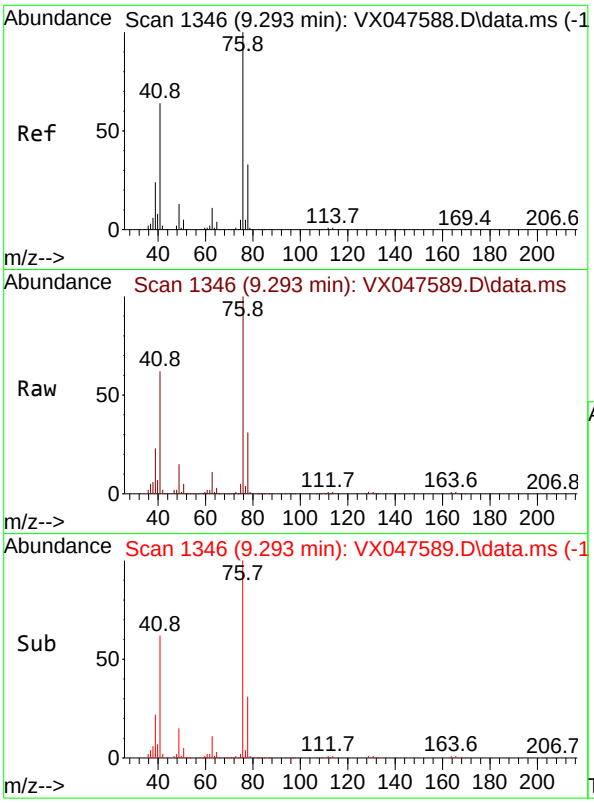


#56
Ethyl methacrylate
Concen: 104.435 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 69 Resp: 346659

Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3

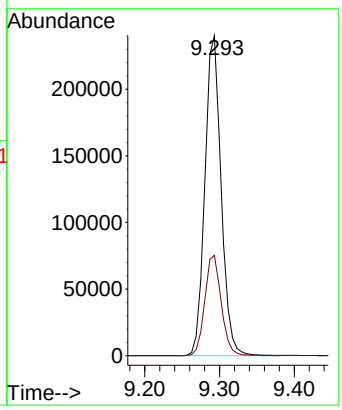




#57
1,3-Dichloropropane
Concen: 99.935 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 76 Resp: 36284

Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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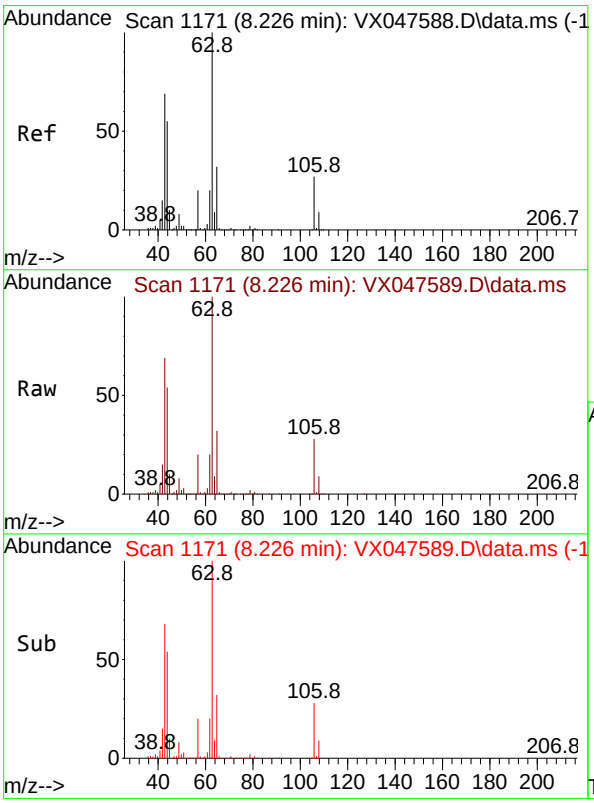
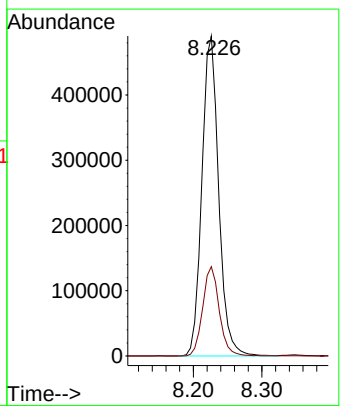
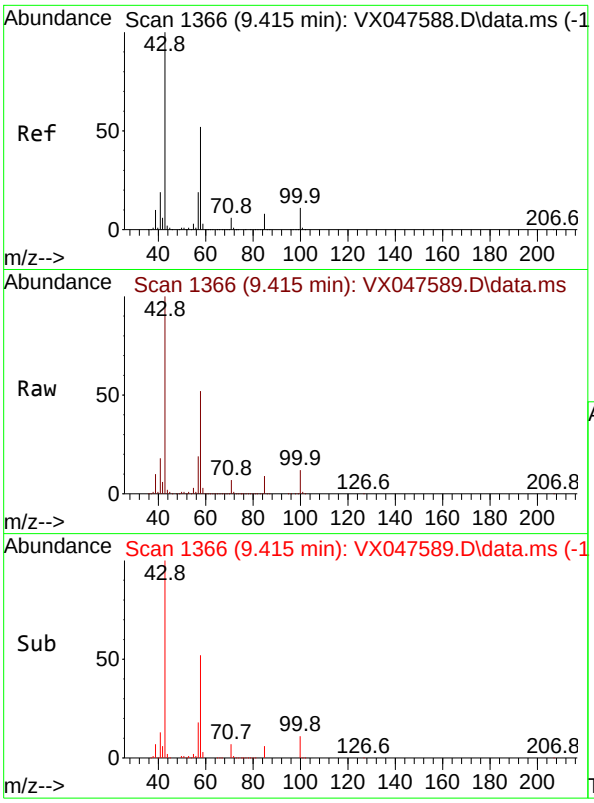


#58
2-Chloroethyl Vinyl ether
Concen: 499.814 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 836362

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9





#59
2-Hexanone
Concen: 486.380 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 99627

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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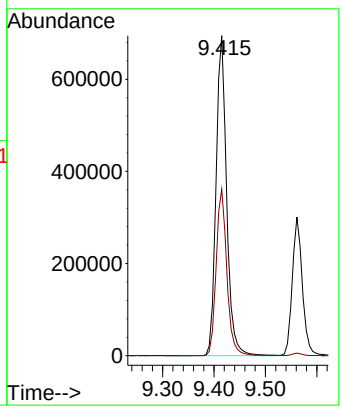
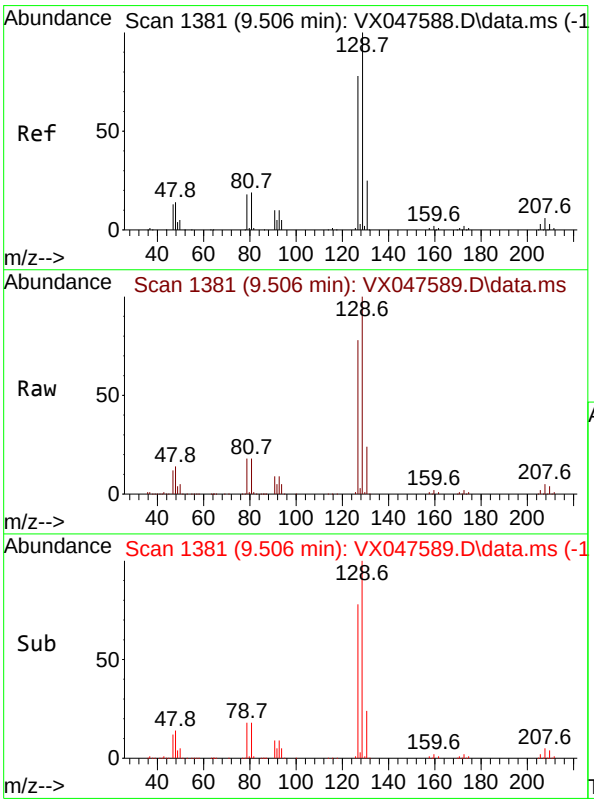
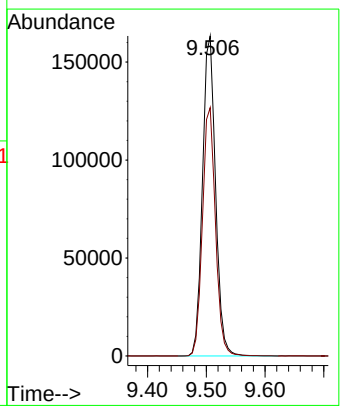


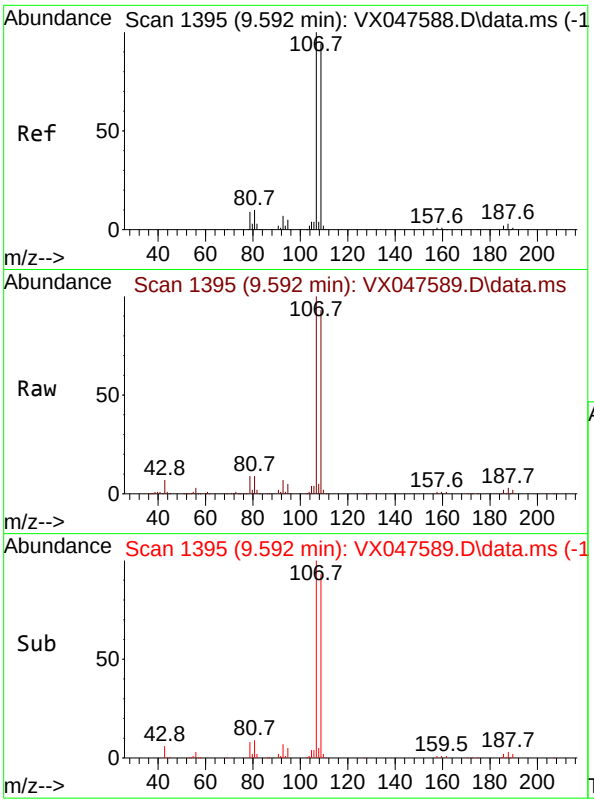


#60
Dibromochloromethane
Concen: 103.226 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:129 Resp: 251394

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.4	115.2





#61
1,2-Dibromoethane
Concen: 101.147 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:107 Resp: 21775

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.3	112.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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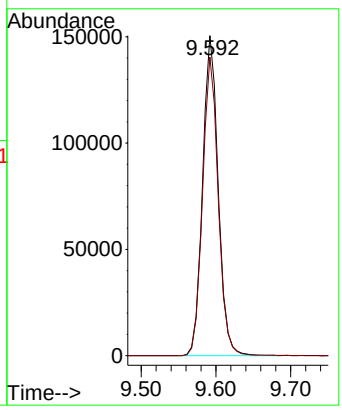
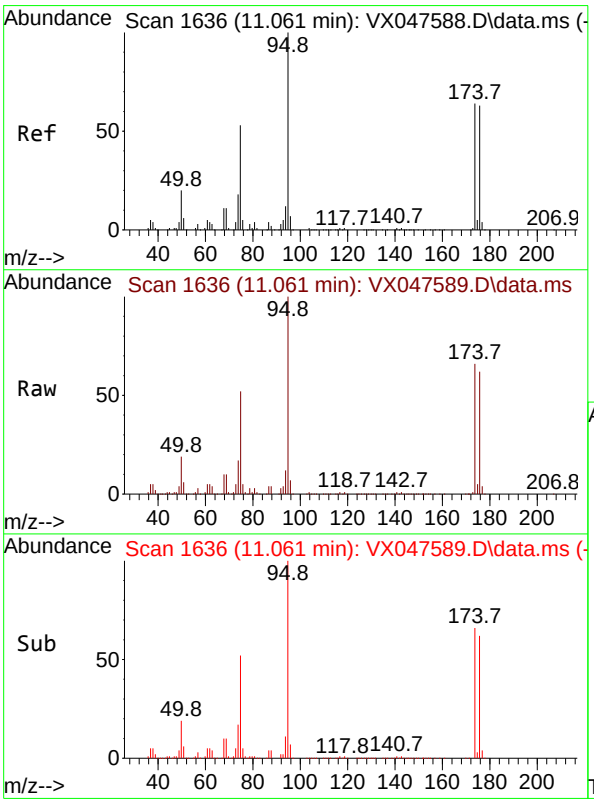
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

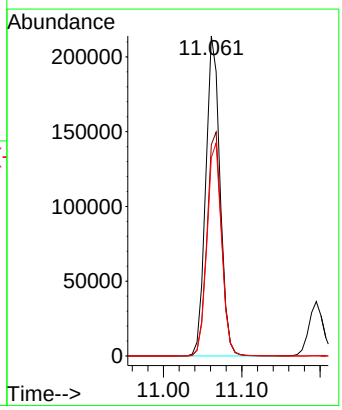


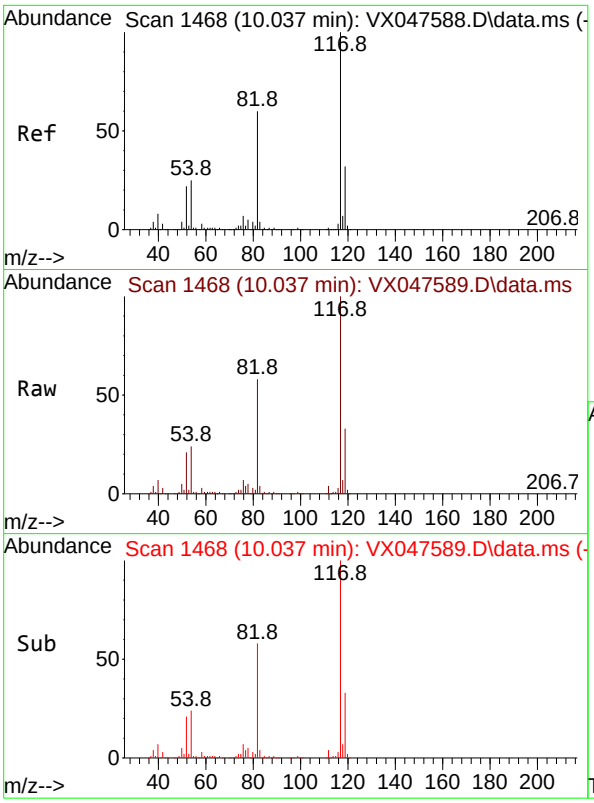


#62
4-Bromofluorobenzene
Concen: 102.672 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 95 Resp: 270289

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	68.0	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 25839

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.8	71.6
119	32.7	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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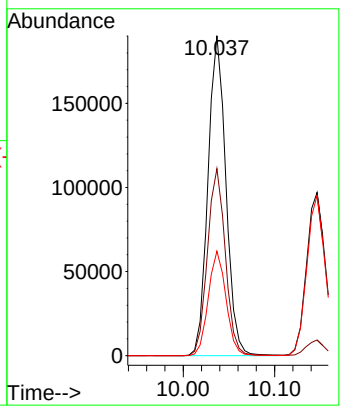
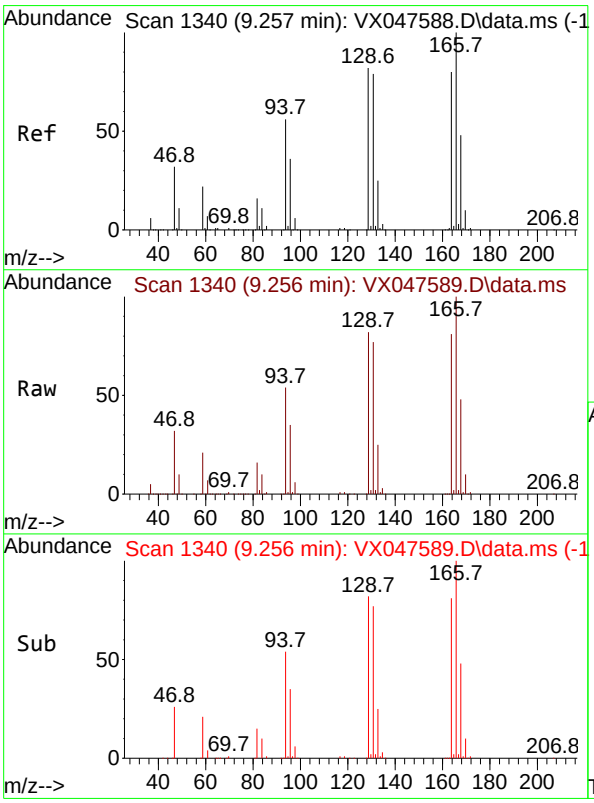
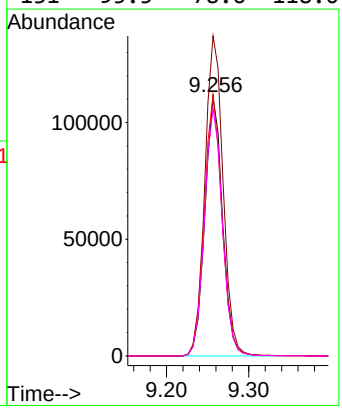


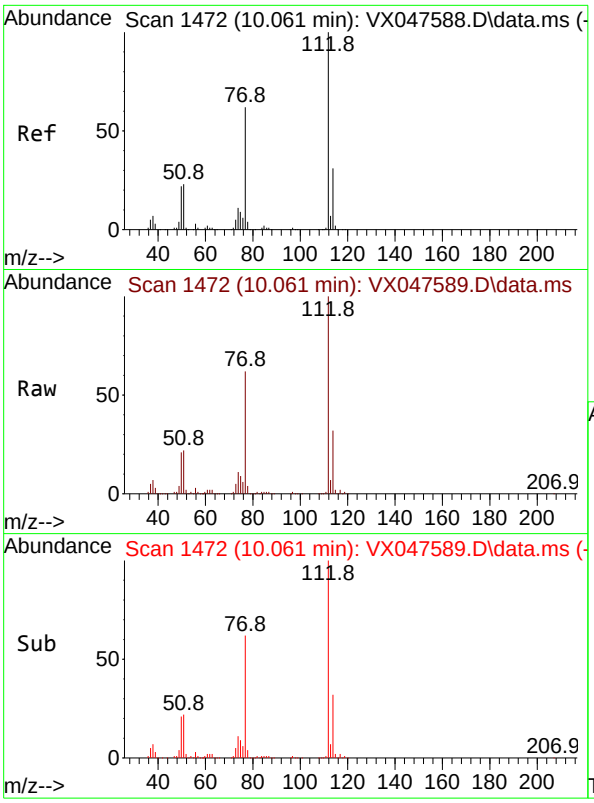


#64
Tetrachloroethene
Concen: 98.284 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:164 Resp: 165559

Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.2	150.2
129	100.9	81.8	122.6
131	95.5	78.6	118.0

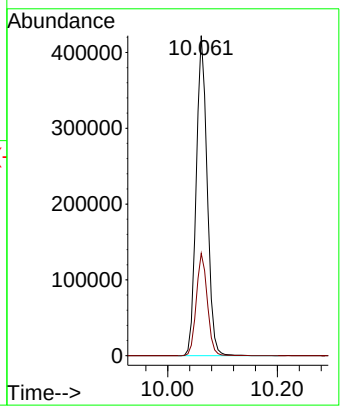




#65
Chlorobenzene
Concen: 100.253 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:112 Resp: 58851

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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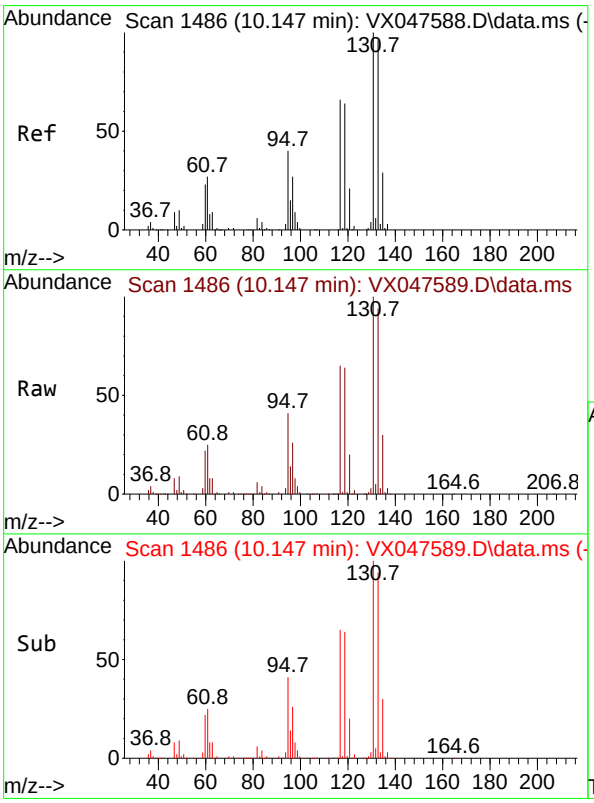
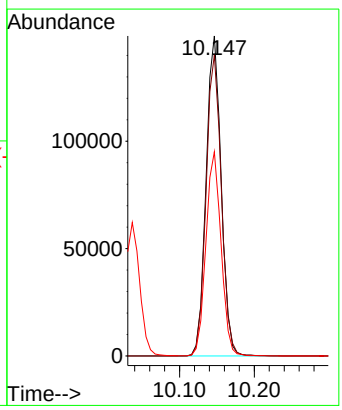
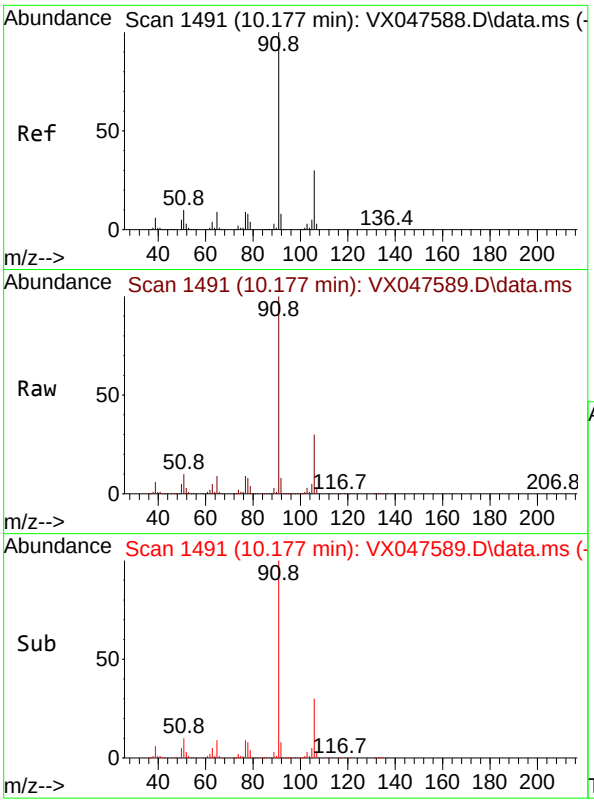


#66
1,1,1,2-Tetrachloroethane
Concen: 102.988 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:131 Resp: 208621

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	142.0
119	64.2	32.0	96.0

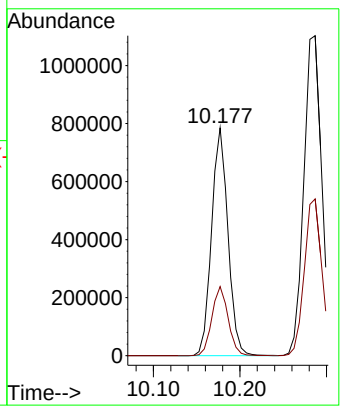




#67
Ethyl Benzene
Concen: 101.823 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 103134

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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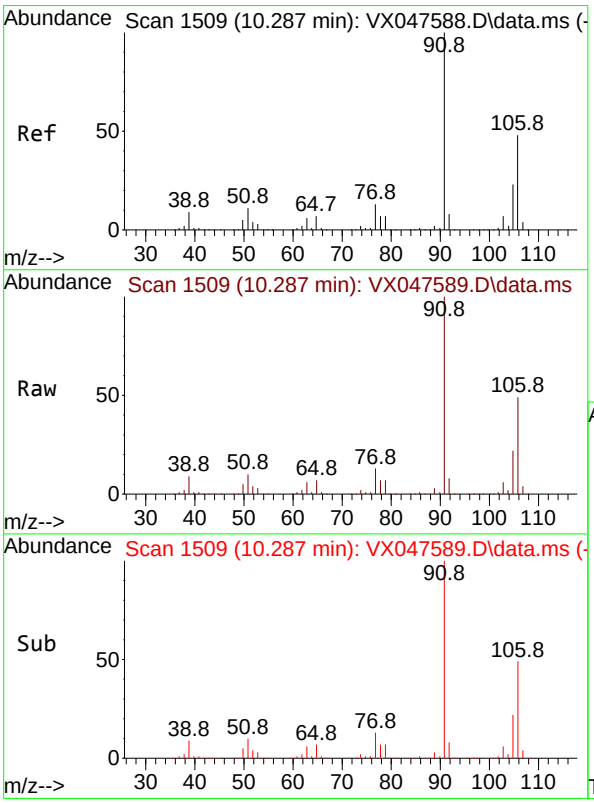
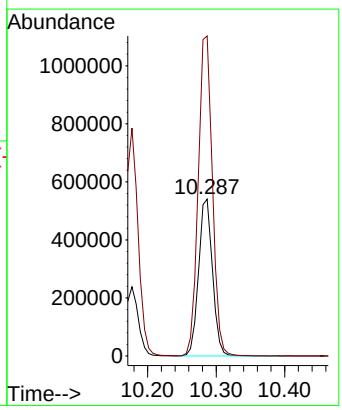
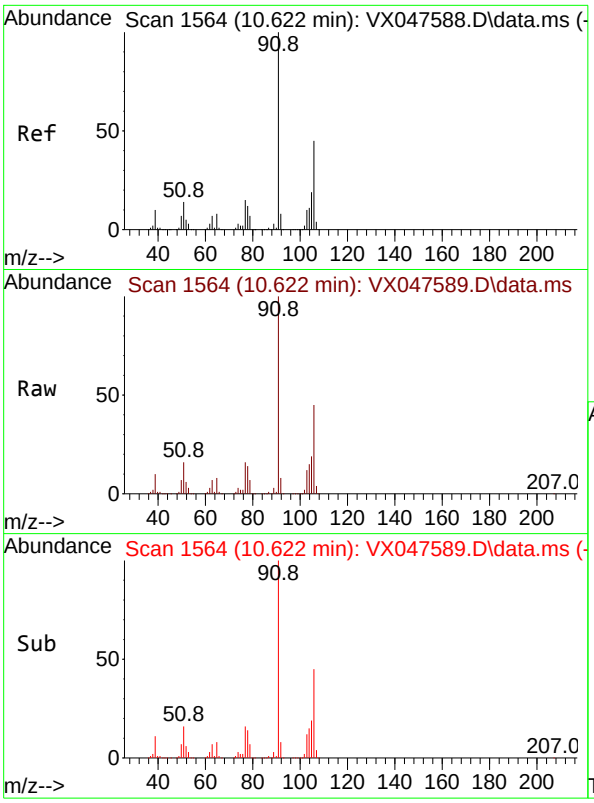


#68
m/p-Xylenes
Concen: 202.624 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:106 Resp: 763898

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8

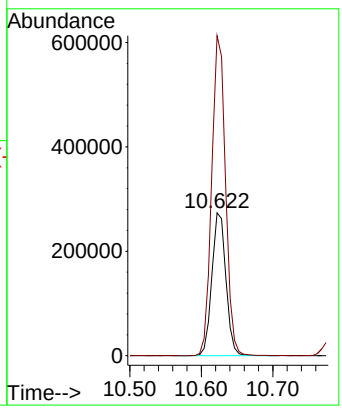




#69
o-Xylene
Concen: 102.186 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:106 Resp: 37262

Ion	Ratio	Lower	Upper
106	100		
91	221.3	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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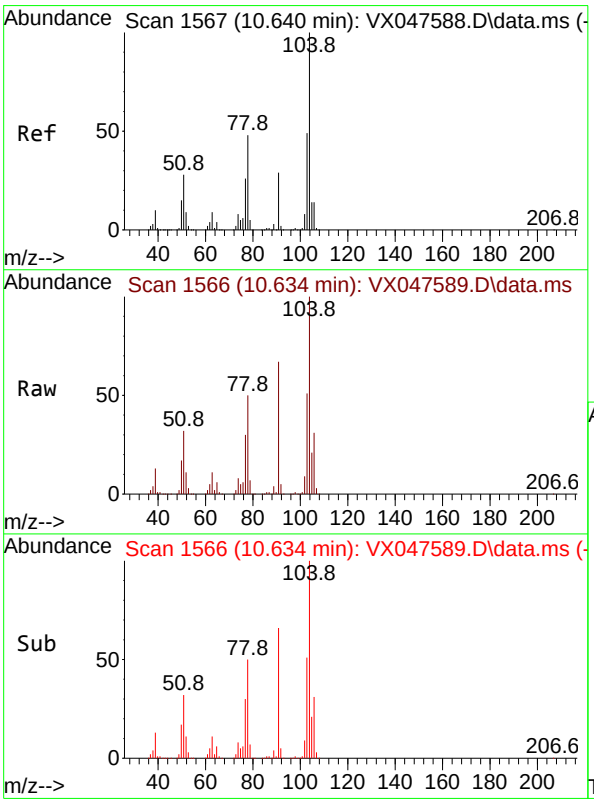
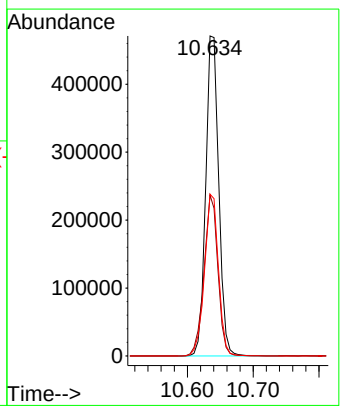
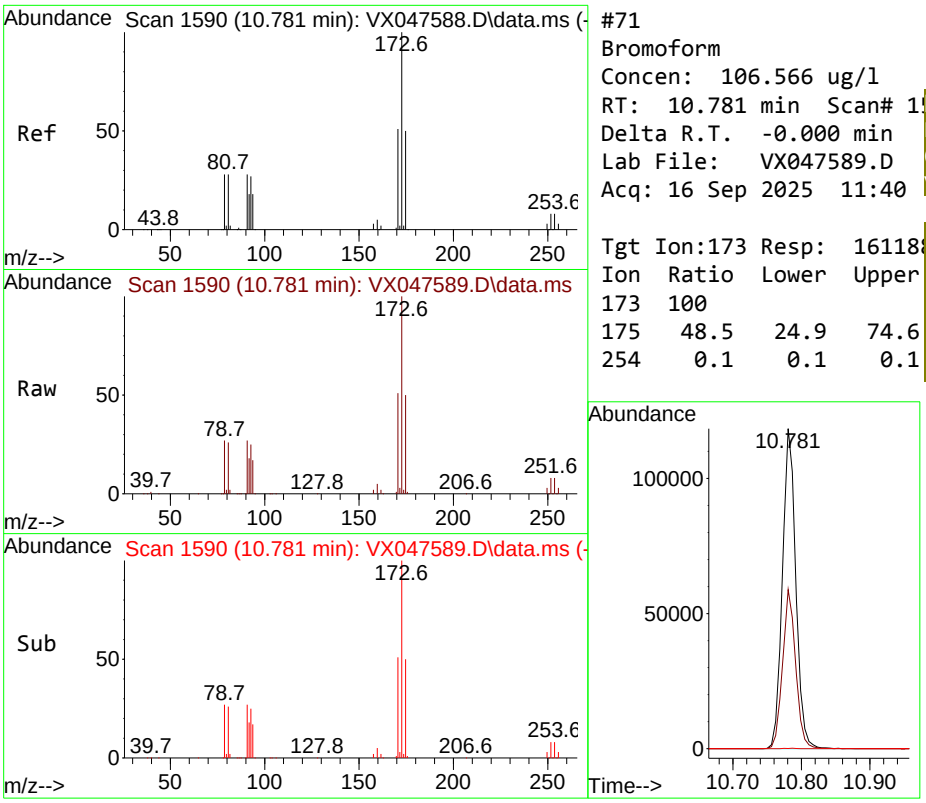


#70
Styrene
Concen: 101.710 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:104 Resp: 649863

Ion	Ratio	Lower	Upper
104	100		
78	53.5	43.1	64.7
103	54.1	43.1	64.7





#71
Bromoform
Concen: 106.566 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:173 Resp: 16118

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.9	74.6
254	0.1	0.1	0.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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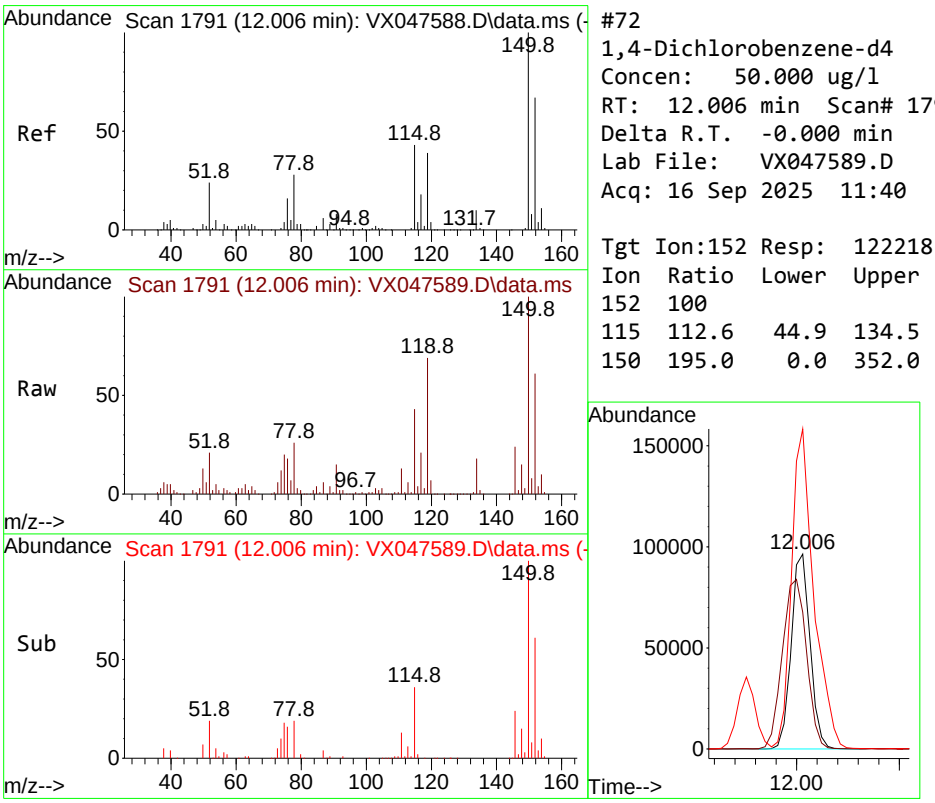
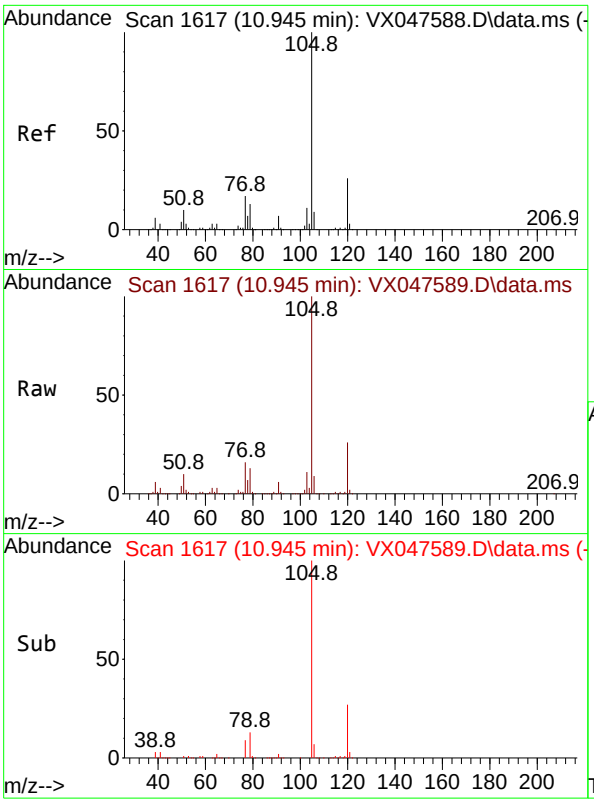


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:152 Resp: 122218

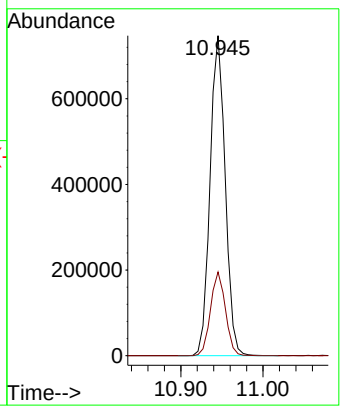
Ion	Ratio	Lower	Upper
152	100		
115	112.6	44.9	134.5
150	195.0	0.0	352.0



#73
Isopropylbenzene
Concen: 102.768 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 95490

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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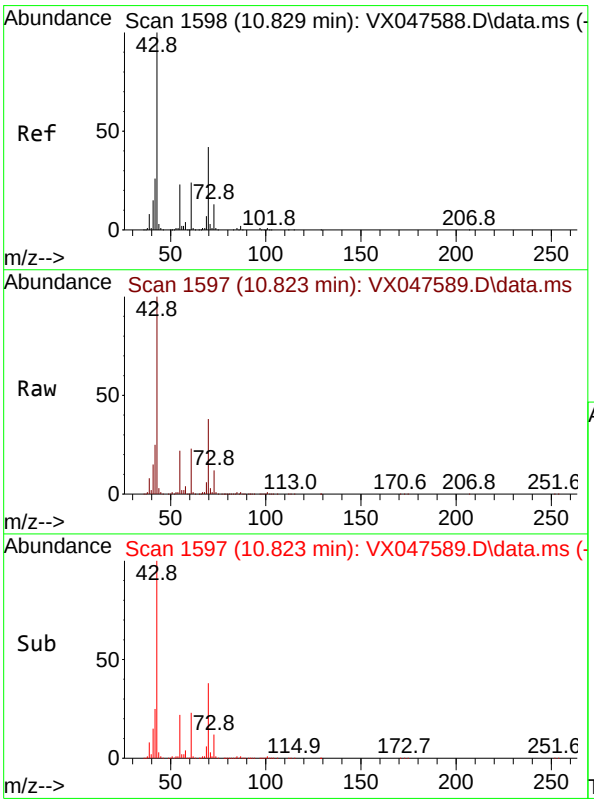
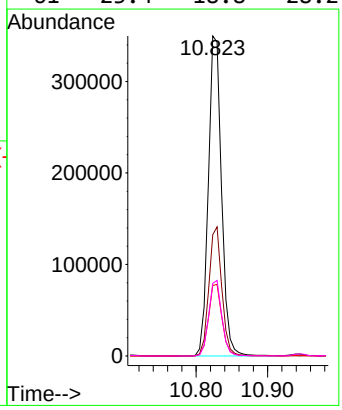
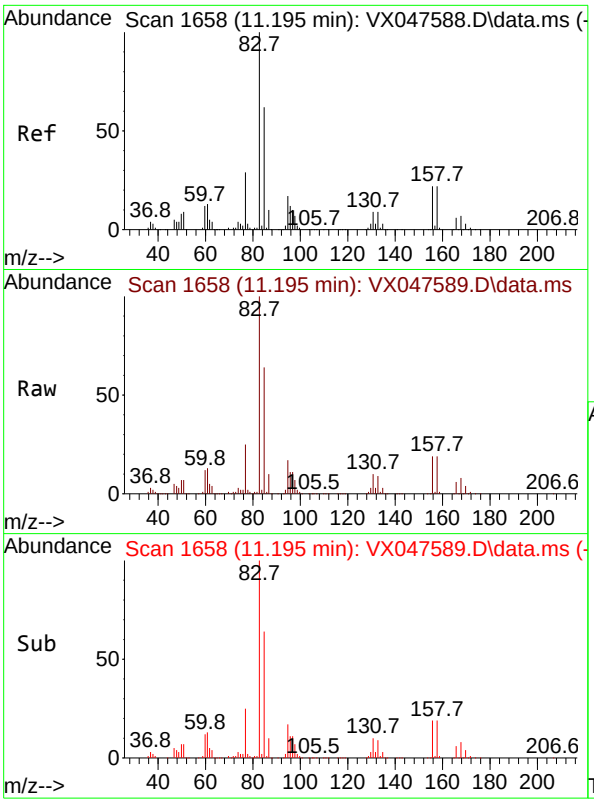


#74
N-amyl acetate
Concen: 105.812 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 448344

Ion	Ratio	Lower	Upper
43	100		
70	39.6	32.0	48.0
55	22.8	18.9	28.3
61	23.4	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 100.172 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 28160

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	65.1	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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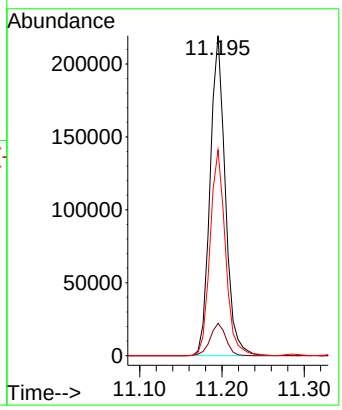
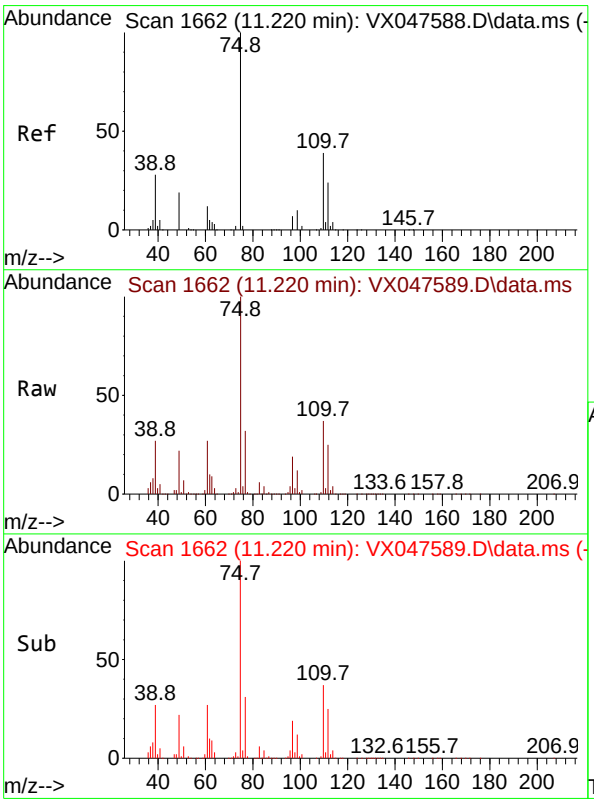
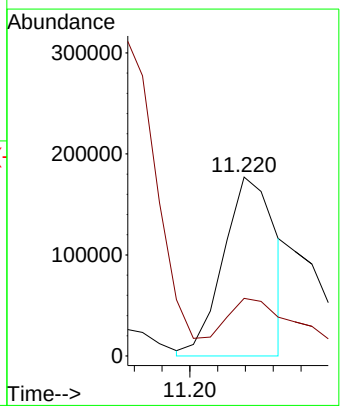


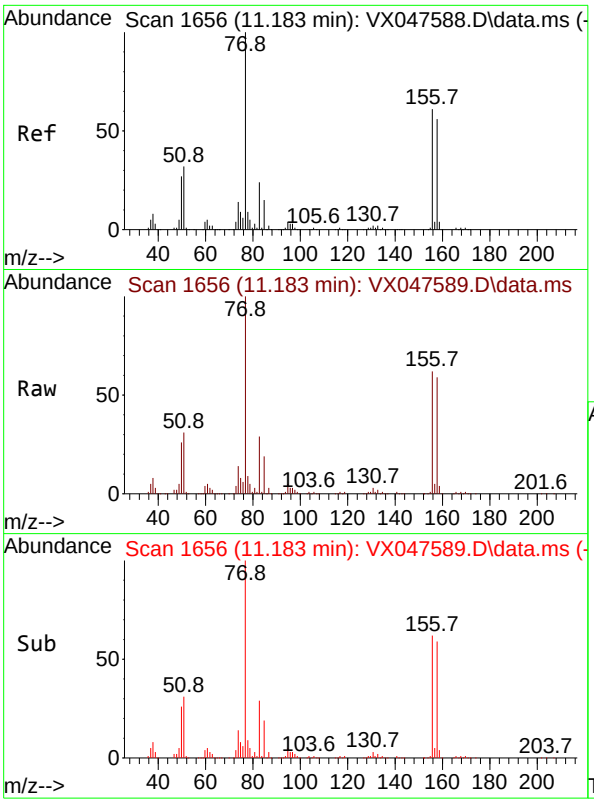


#76
1,2,3-Trichloropropane
Concen: 90.444 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 229521

Ion	Ratio	Lower	Upper
75	100		
77	43.9	18.8	56.4

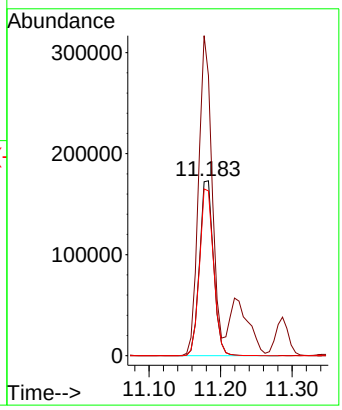




#77
Bromobenzene
Concen: 102.541 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:156 Resp: 23466

Ion	Ratio	Lower	Upper
156	100		
77	176.0	89.7	269.1
158	96.5	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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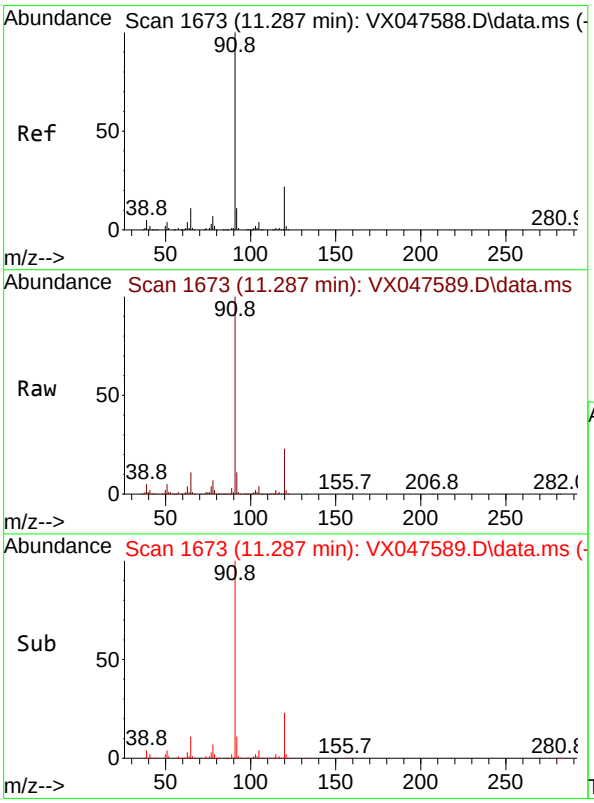
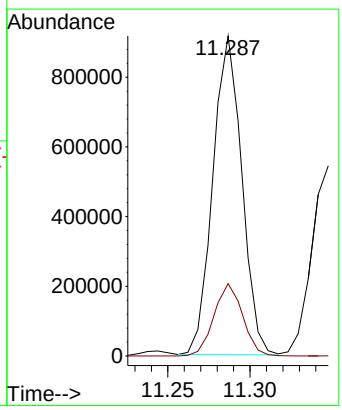
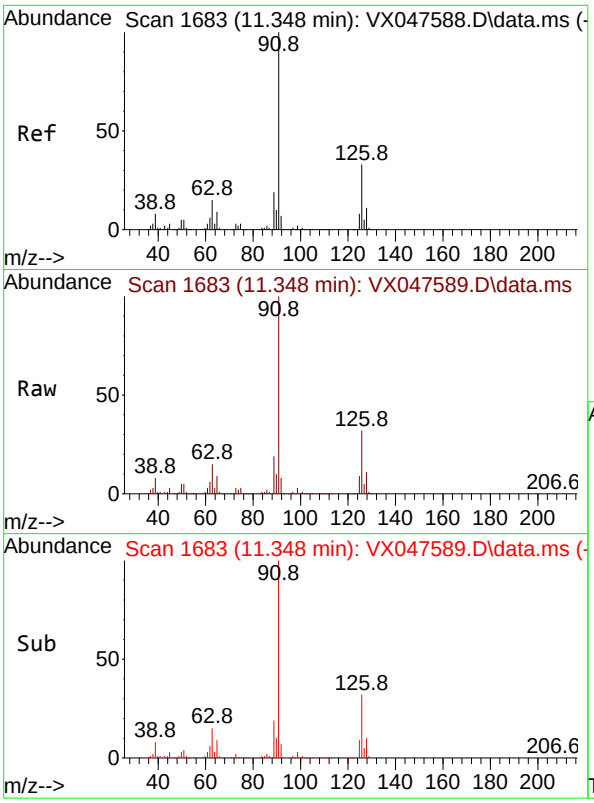


#78
n-propylbenzene
Concen: 101.941 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 1119728

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1

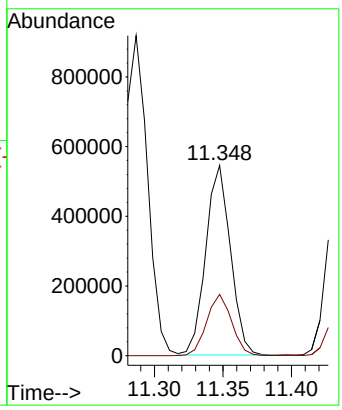




#79
2-Chlorotoluene
Concen: 101.652 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 68386

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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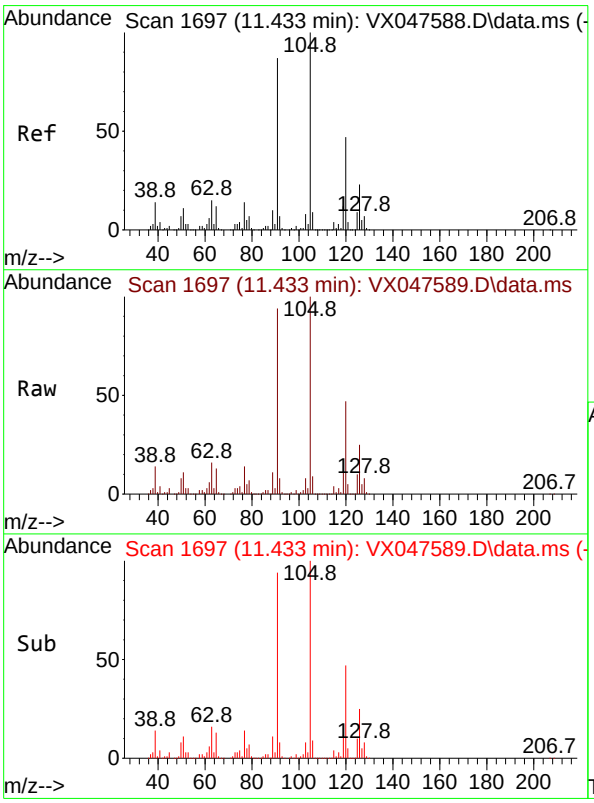
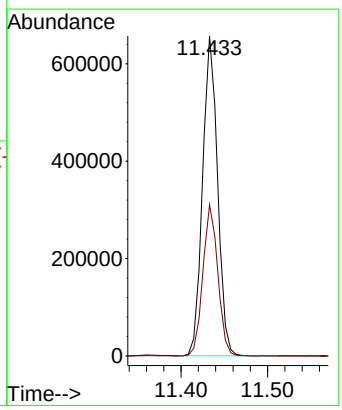
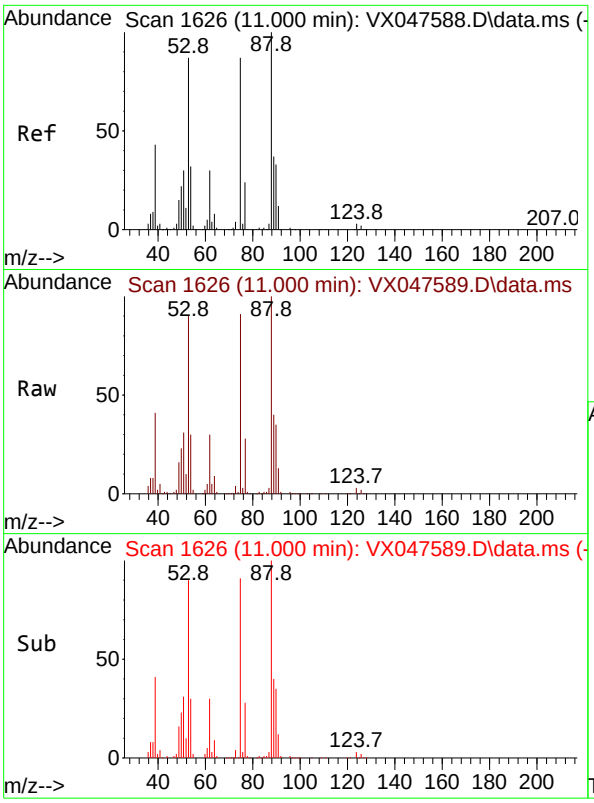


#80
1,3,5-Trimethylbenzene
Concen: 103.134 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 787327

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8

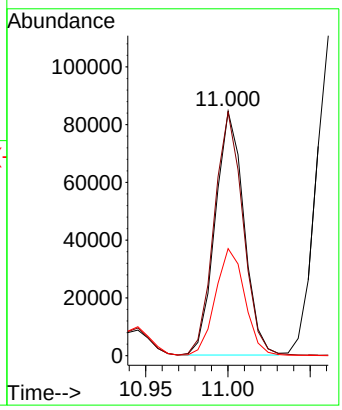




#81
trans-1,4-Dichloro-2-butene
Concen: 105.689 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 10255

Ion	Ratio	Lower	Upper
75	100		
53	101.1	83.4	125.2
89	45.3	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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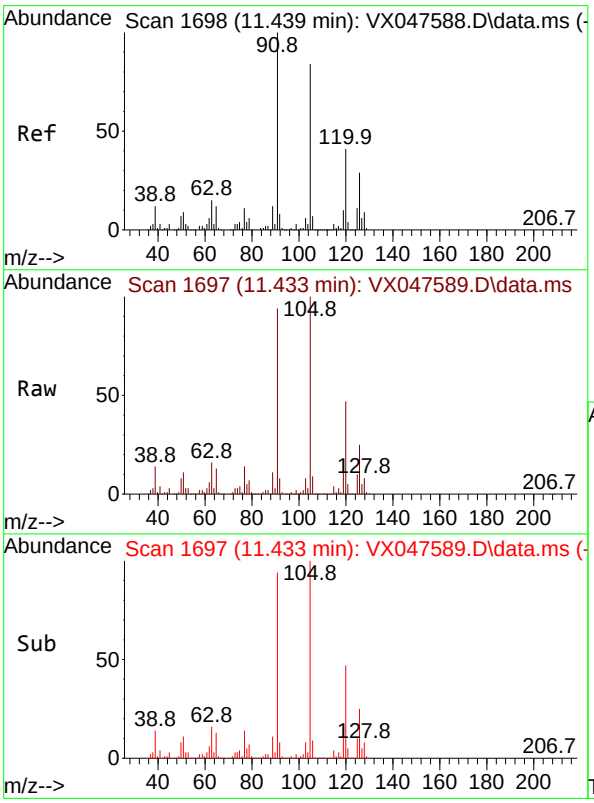
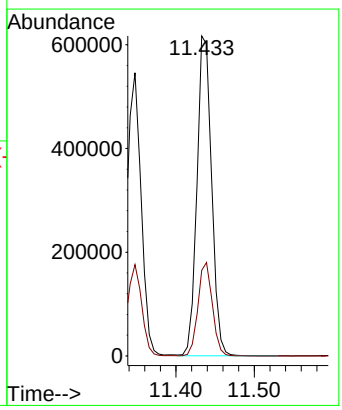
Supervised By :Mahesh Dadoda 09/18/2025

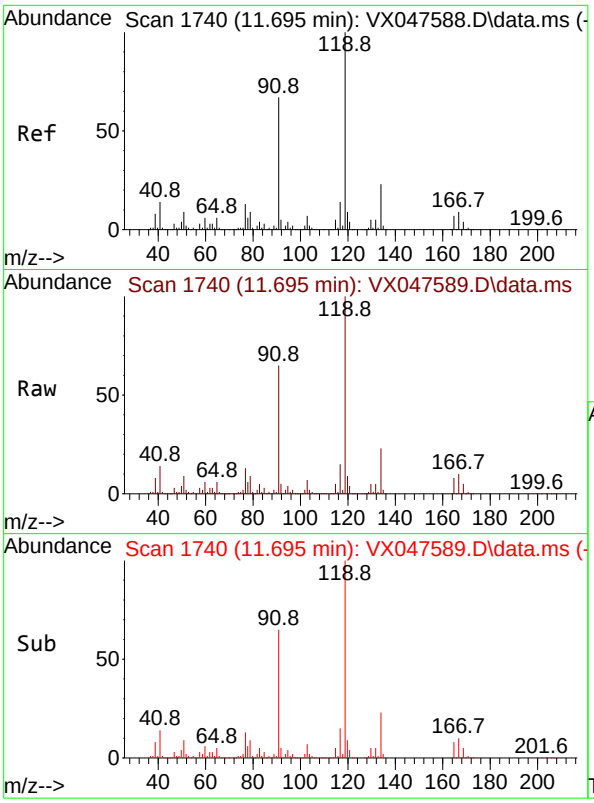


#82
4-Chlorotoluene
Concen: 101.054 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 802929

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6

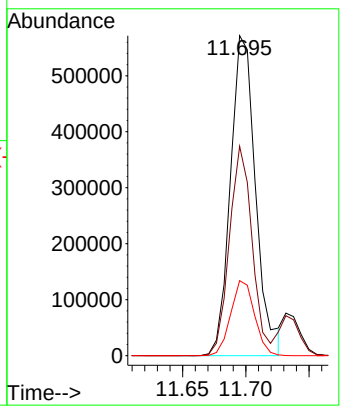




#83
tert-Butylbenzene
Concen: 101.333 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:119 Resp: 79189

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.6	88.8
134	22.3	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :John Carlone 09/17/2025
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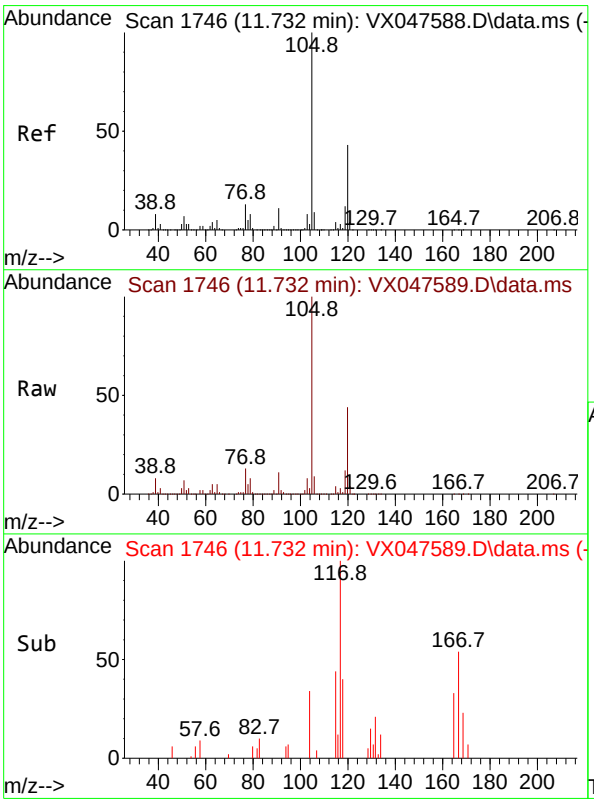
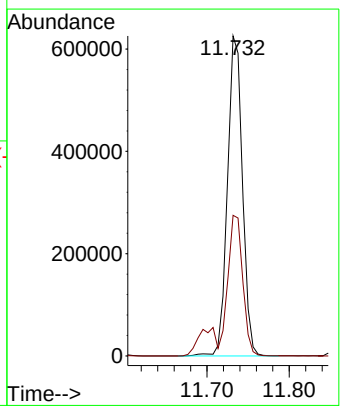
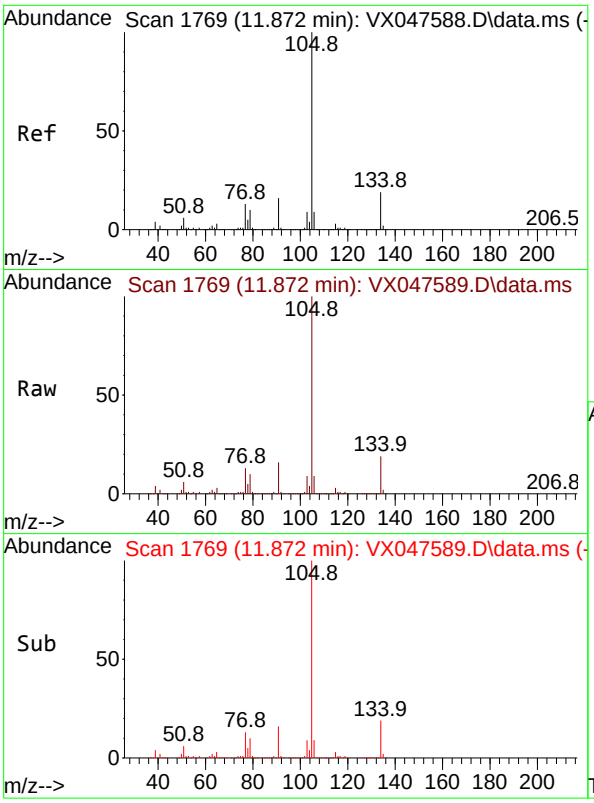


#84
1,2,4-Trimethylbenzene
Concen: 102.144 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 790557

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.1	66.1

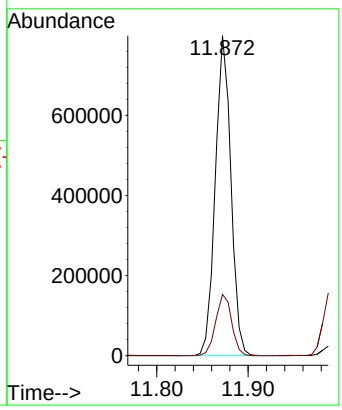




#85
sec-Butylbenzene
Concen: 101.840 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 94532

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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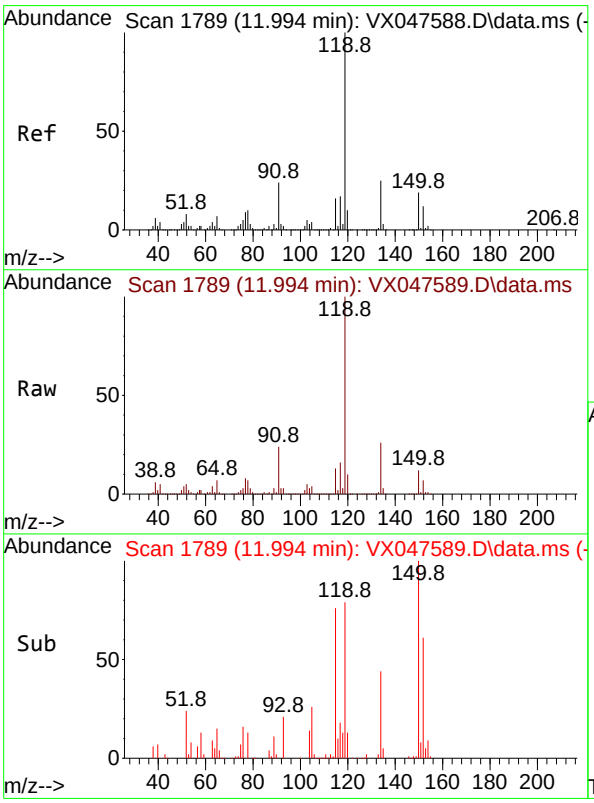
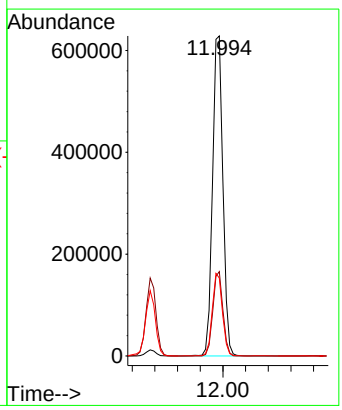
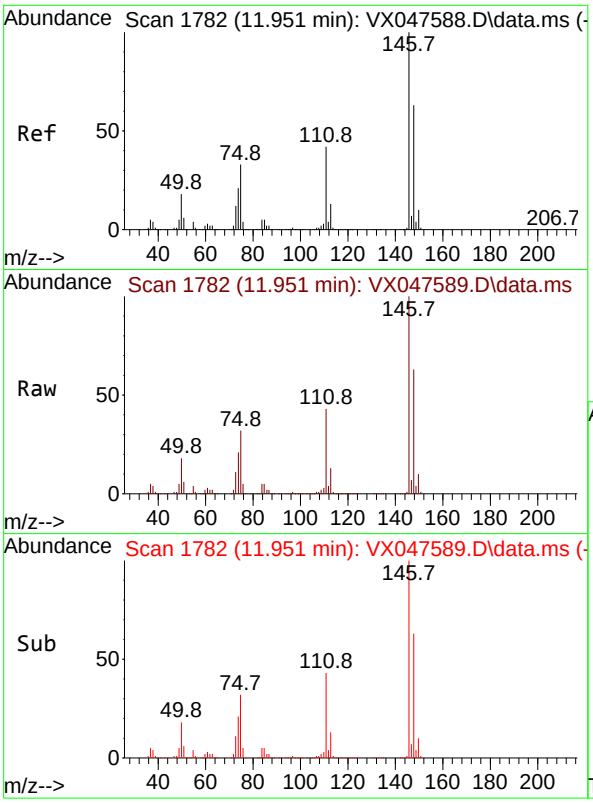


#86
p-Isopropyltoluene
Concen: 101.501 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:119 Resp: 797643

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.6	37.8
91	25.2	12.6	37.6

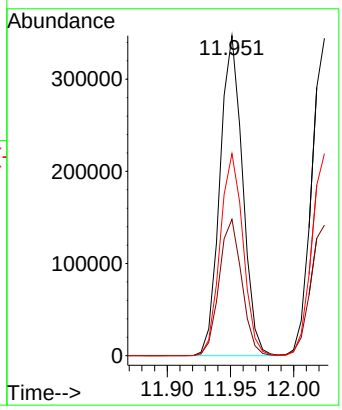




#87
1,3-Dichlorobenzene
Concen: 101.689 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 43224

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.5	64.5
148	63.9	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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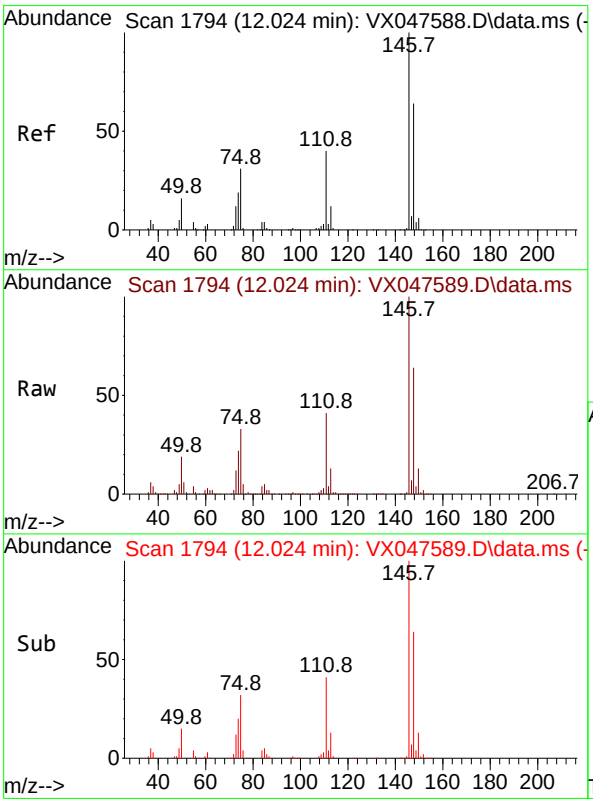
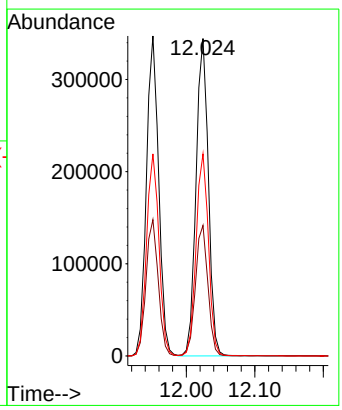
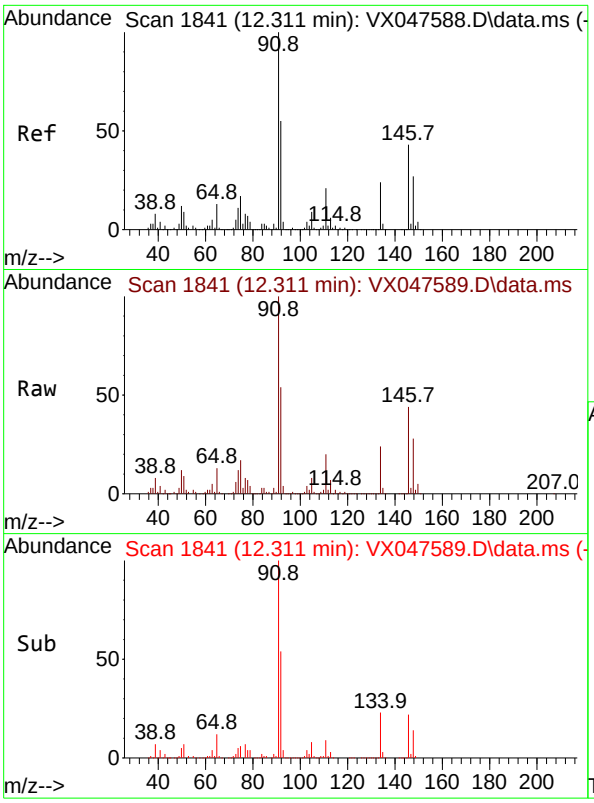


#88
1,4-Dichlorobenzene
Concen: 98.985 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 431839

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.8	31.7	95.1





#89
n-Butylbenzene
Concen: 104.138 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 75723

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.1	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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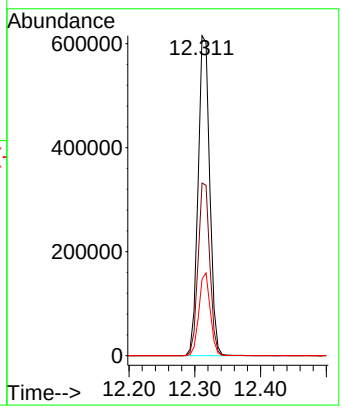
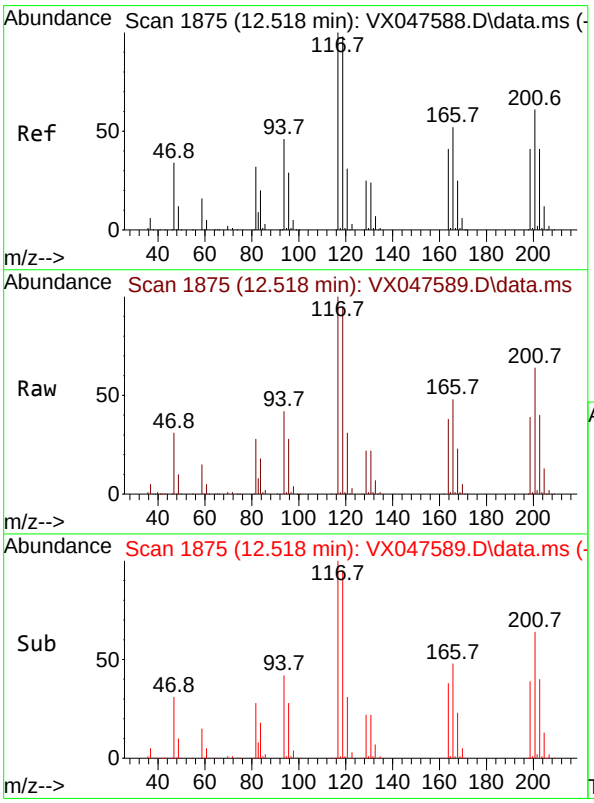
Supervised By :Mahesh Dadoda 09/18/2025

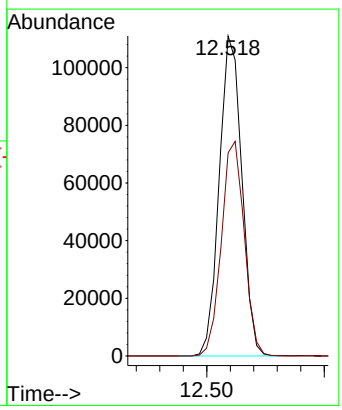


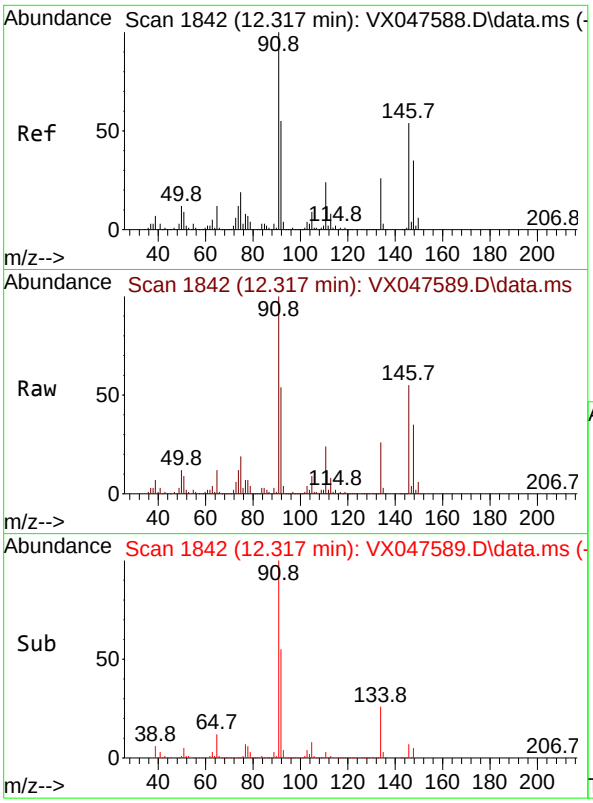


#90
Hexachloroethane
Concen: 107.304 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 148048

Ion	Ratio	Lower	Upper
117	100		
201	68.1	34.2	102.5

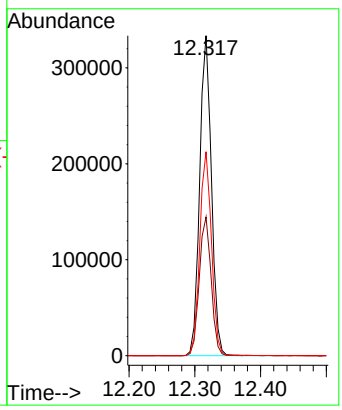




#91
1,2-Dichlorobenzene
Concen: 102.352 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 41449

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.4	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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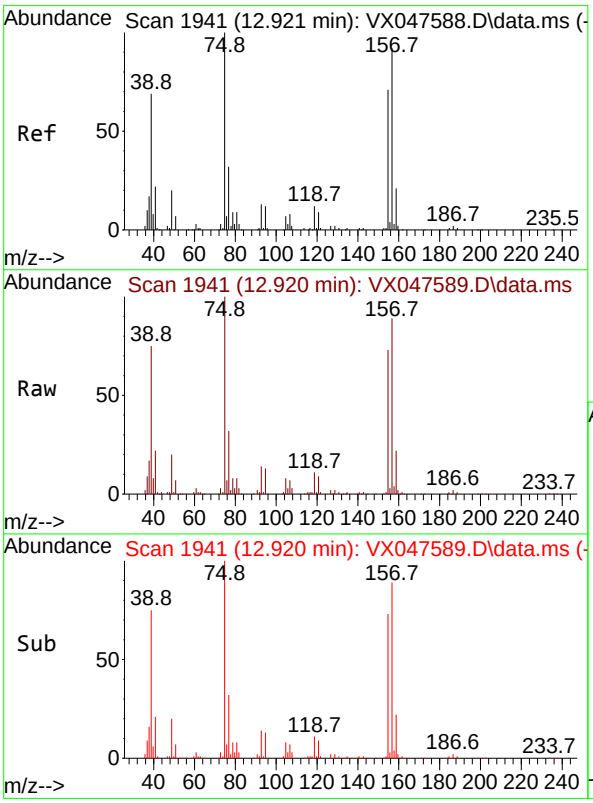
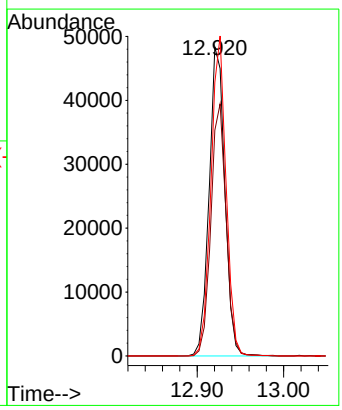
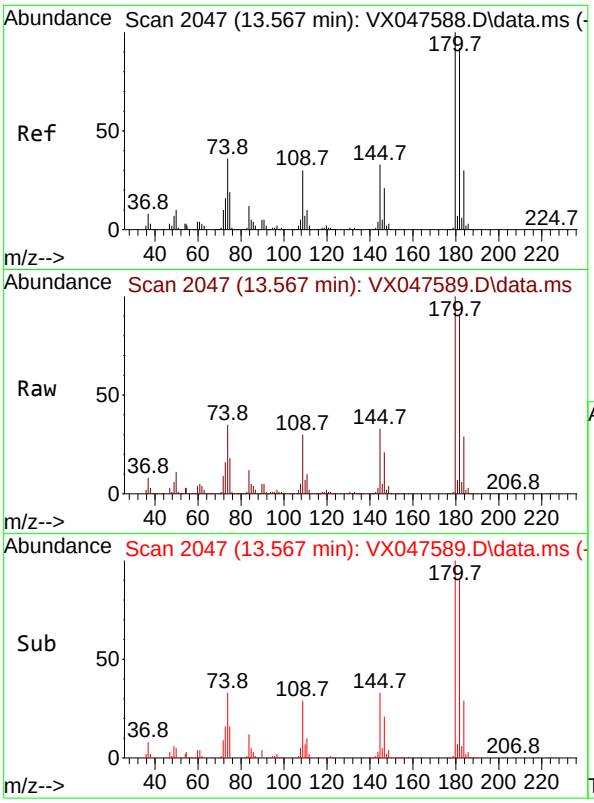


#92
1,2-Dibromo-3-Chloropropane
Concen: 107.225 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 61029

Ion	Ratio	Lower	Upper
75	100		
155	79.0	37.7	113.1
157	99.2	49.8	149.4

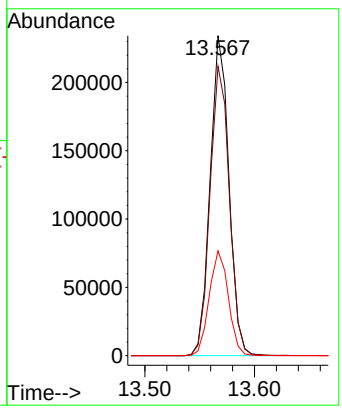




#93
1,2,4-Trichlorobenzene
Concen: 105.922 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:180 Resp: 27877

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	33.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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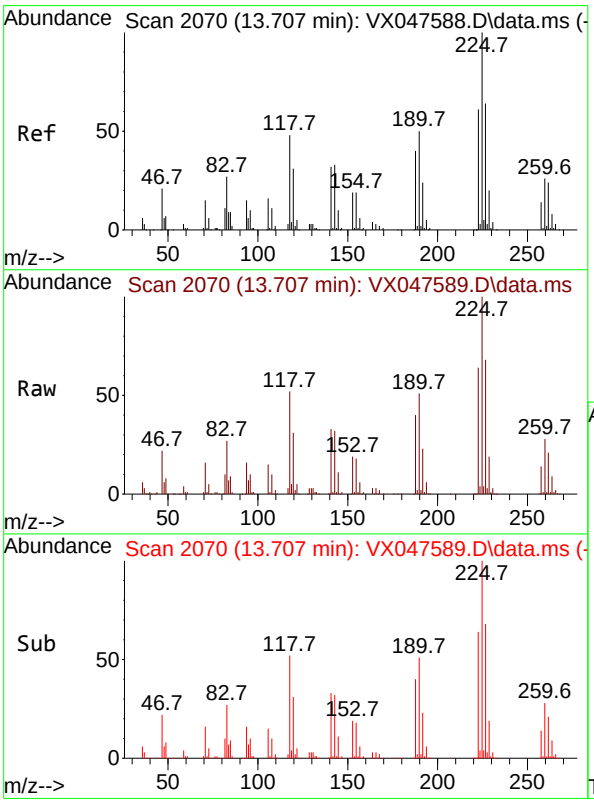
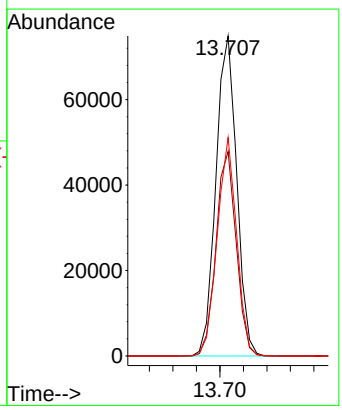
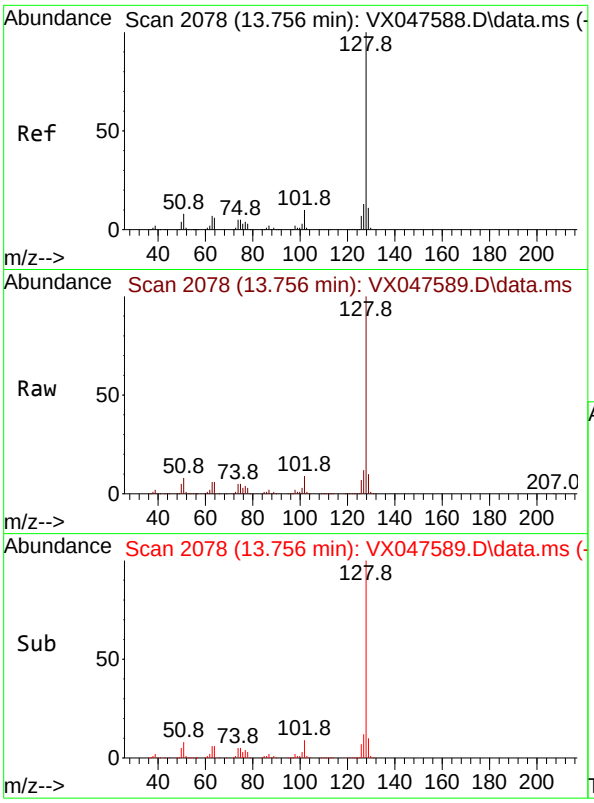


#94
Hexachlorobutadiene
Concen: 103.049 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:225 Resp: 92124

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.7	95.1
227	63.8	32.0	96.0

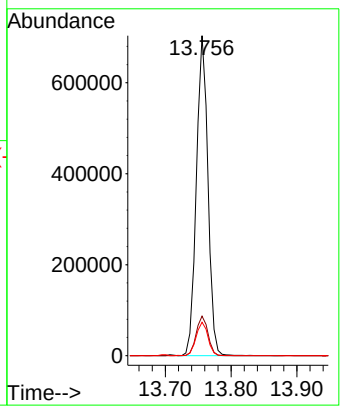




#95
Naphthalene
Concen: 106.620 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:128 Resp: 85449

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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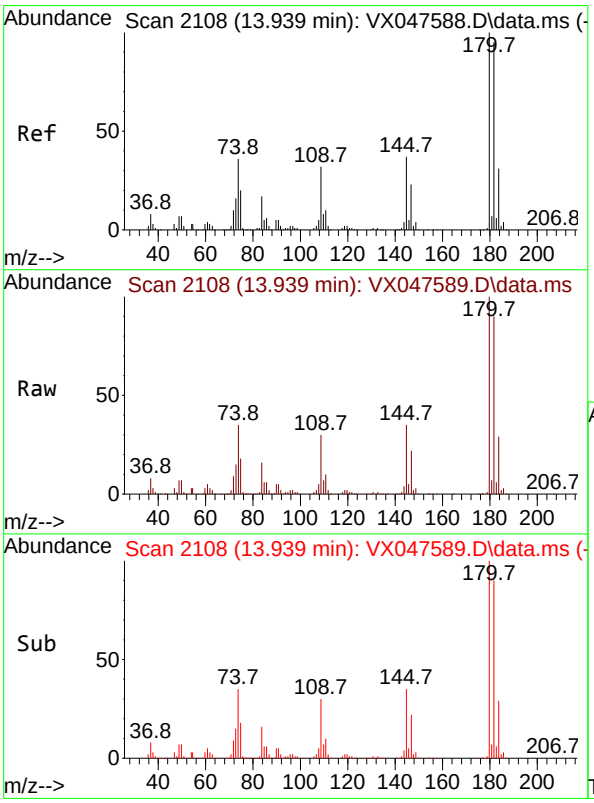
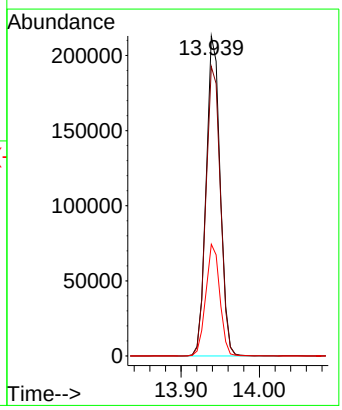


#96
1,2,3-Trichlorobenzene
Concen: 107.633 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:180 Resp: 263512

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	35.0	17.9	53.7



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Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	153177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	274804	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114743	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	396627	162.673	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 325.340%#			
35) Dibromofluoromethane	5.373	113	303728	164.802	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 329.600%#			
50) Toluene-d8	8.635	98	1041079	163.253	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 326.500%#			
62) 4-Bromofluorobenzene	11.067	95	399386	165.020	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 330.040%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	226166	142.586	ug/l	99
3) Chloromethane	1.301	50	297259	142.593	ug/l	99
4) Vinyl Chloride	1.380	62	302303	148.140	ug/l	98
5) Bromomethane	1.605	94	147541	114.019	ug/l	98
6) Chloroethane	1.691	64	195927	143.652	ug/l	99
7) Trichlorofluoromethane	1.892	101	453116	149.545	ug/l	99
8) Diethyl Ether	2.136	74	188006	151.684	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	267995	151.264	ug/l	99
10) Methyl Iodide	2.453	142	407242	147.384	ug/l	99
11) Tert butyl alcohol	2.959	59	215927	795.166	ug/l	100
12) 1,1-Dichloroethene	2.325	96	273692	150.388	ug/l	97
13) Acrolein	2.239	56	223763	894.203	ug/l	98
14) Allyl chloride	2.666	41	554779	147.727	ug/l	99
15) Acrylonitrile	3.063	53	790790	786.201	ug/l	99
16) Acetone	2.380	43	686119	647.201	ug/l	98
17) Carbon Disulfide	2.514	76	714503	143.412	ug/l	99
18) Methyl Acetate	2.703	43	404736	171.548	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	1015295	152.826	ug/l	100
20) Methylene Chloride	2.788	84	324032	144.398	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	291616	148.833	ug/l	98
22) Diisopropyl ether	3.757	45	1095726	150.551	ug/l	97
23) Vinyl Acetate	3.715	43	4504849	773.364	ug/l	100
24) 1,1-Dichloroethane	3.605	63	587129	151.776	ug/l	98
25) 2-Butanone	4.544	43	973938	736.502	ug/l	99
26) 2,2-Dichloropropane	4.471	77	486890	151.414	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	366262	152.638	ug/l	99
28) Bromochloromethane	4.885	49	289548	171.451	ug/l	99
29) Tetrahydrofuran	4.989	42	616374	774.811	ug/l	100
30) Chloroform	5.080	83	591709	151.367	ug/l	99
31) Cyclohexane	5.458	56	456119	141.570	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	506654	152.802	ug/l	99
36) 1,1-Dichloropropene	5.684	75	386601	143.556	ug/l	99
37) Ethyl Acetate	4.702	43	444461	154.141	ug/l	99
38) Carbon Tetrachloride	5.666	117	427263	146.021	ug/l	98
39) Methylcyclohexane	7.367	83	456694	149.395	ug/l	98
40) Benzene	6.025	78	1202846	147.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.904	41	223218	149.951 ug/l	99
42) 1,2-Dichloroethane	6.074	62	455978	146.515 ug/l	99
43) Isopropyl Acetate	6.324	43	724888	153.283 ug/l	99
44) Trichloroethene	7.111	130	299673	151.542 ug/l	96
45) 1,2-Dichloropropane	7.415	63	316720	151.219 ug/l	99
46) Dibromomethane	7.568	93	228550	149.954 ug/l	97
47) Bromodichloromethane	7.806	83	483438	153.710 ug/l	98
48) Methyl methacrylate	7.678	41	367931	156.194 ug/l	99
49) 1,4-Dioxane	7.647	88	82739	3475.565 ug/l	98
51) 4-Methyl-2-Pentanone	8.562	43	2008063	765.849 ug/l	100
52) Toluene	8.702	92	739332	146.712 ug/l	99
53) t-1,3-Dichloropropene	8.964	75	503912	157.076 ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	530566	154.732 ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	289103	148.781 ug/l	99
56) Ethyl methacrylate	9.104	69	490623	160.773 ug/l	97
57) 1,3-Dichloropropane	9.293	76	502121	150.426 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.232	63	1202206	749.661 ug/l	99
59) 2-Hexanone	9.415	43	1412417	750.035 ug/l	99
60) Dibromochloromethane	9.506	129	347748	155.318 ug/l	98
61) 1,2-Dibromoethane	9.592	107	302715	152.949 ug/l	99
64) Tetrachloroethene	9.263	164	227931	144.590 ug/l	98
65) Chlorobenzene	10.061	112	828239	150.763 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	291433	153.733 ug/l	98
67) Ethyl Benzene	10.177	91	1431554	151.026 ug/l	99
68) m/p-Xylenes	10.287	106	1059776	300.381 ug/l	99
69) o-Xylene	10.628	106	521840	152.920 ug/l	99
70) Styrene	10.640	104	917532	153.449 ug/l	99
71) Bromoform	10.781	173	229683	162.262 ug/l	99
73) Isopropylbenzene	10.945	105	1321409	151.477 ug/l	99
74) N-amyl acetate	10.829	43	636879	160.099 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	403906	153.035 ug/l	99
76) 1,2,3-Trichloropropane	11.226	75	366171m	153.692 ug/l	
77) Bromobenzene	11.183	156	328336	152.818 ug/l	99
78) n-propylbenzene	11.287	91	1550316	150.337 ug/l	99
79) 2-Chlorotoluene	11.348	91	939707	148.781 ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	1091593	152.306 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	145921	160.176 ug/l	97
82) 4-Chlorotoluene	11.439	91	1127233	151.112 ug/l	100
83) tert-Butylbenzene	11.701	119	1106532	150.819 ug/l	99
84) 1,2,4-Trimethylbenzene	11.738	105	1106914	152.336 ug/l	100
85) sec-Butylbenzene	11.872	105	1319819	151.448 ug/l	99
86) p-Isopropyltoluene	11.994	119	1103210	149.530 ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	605123	151.633 ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	613617	149.814 ug/l	99
89) n-Butylbenzene	12.317	91	1032357	151.222 ug/l	100
90) Hexachloroethane	12.518	117	211472	163.258 ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	582565	153.227 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	89415	167.332 ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	387652	156.884 ug/l	98
94) Hexachlorobutadiene	13.707	225	121791	145.110 ug/l	99
95) Naphthalene	13.756	128	1229363	163.388 ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	369382	160.704 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

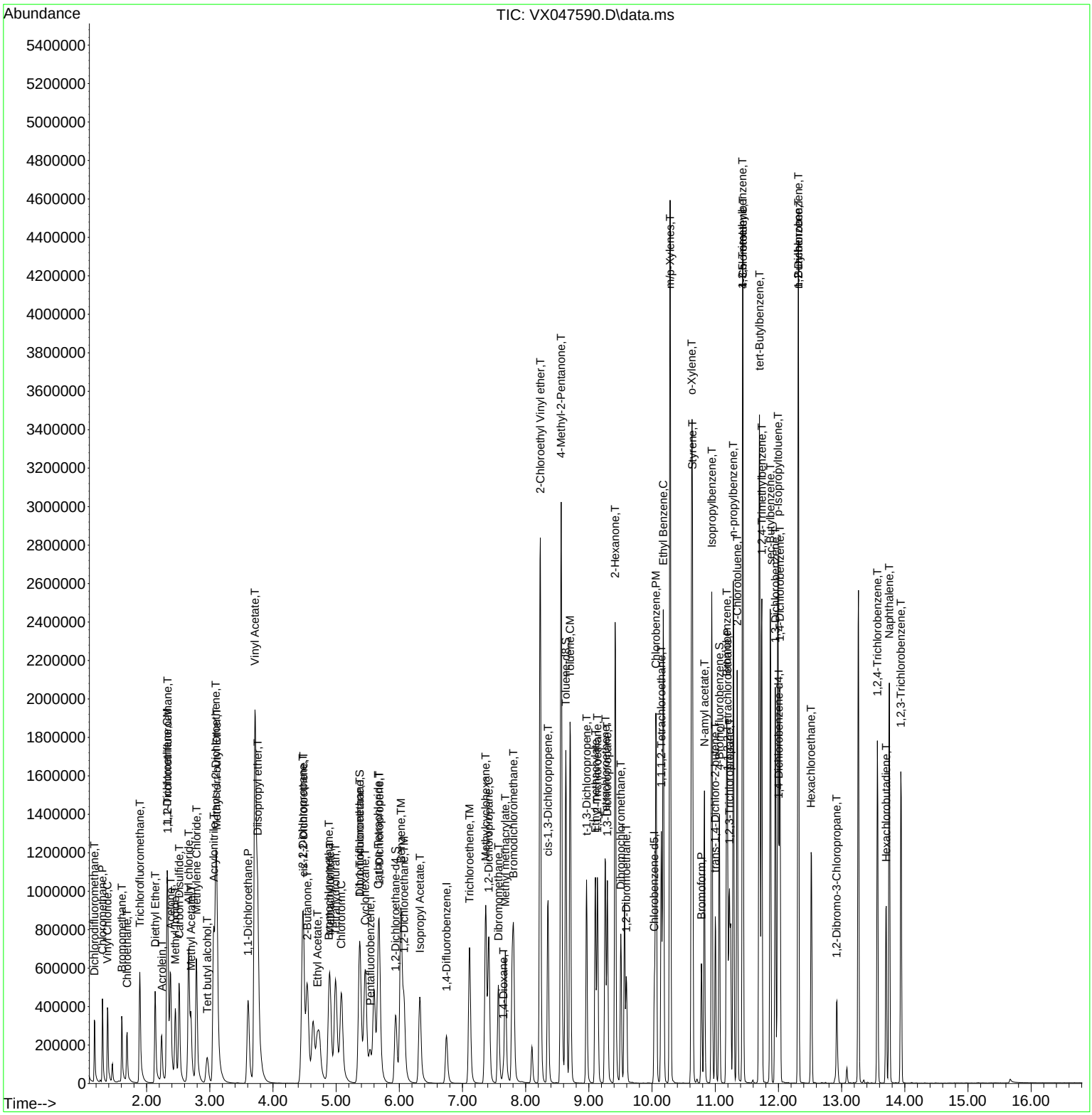
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

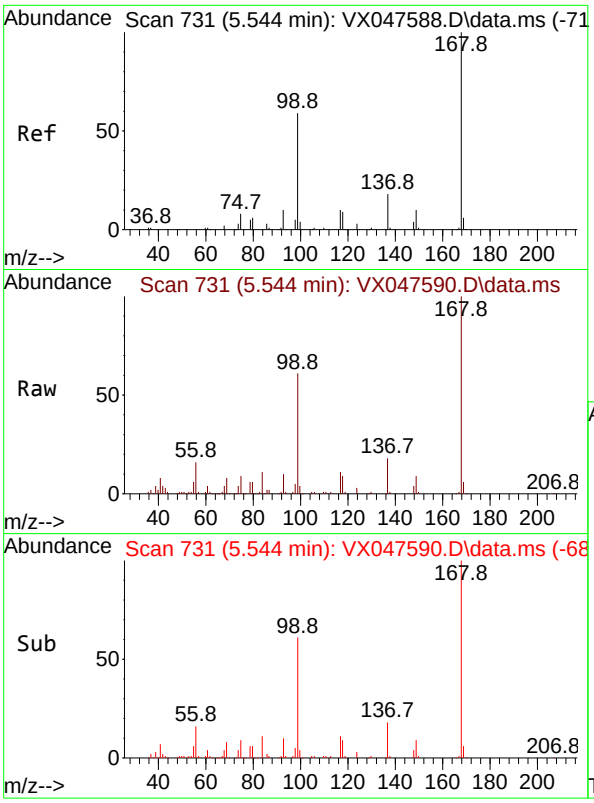
Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

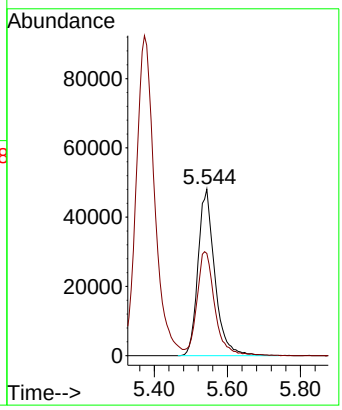




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:168 Resp: 15317

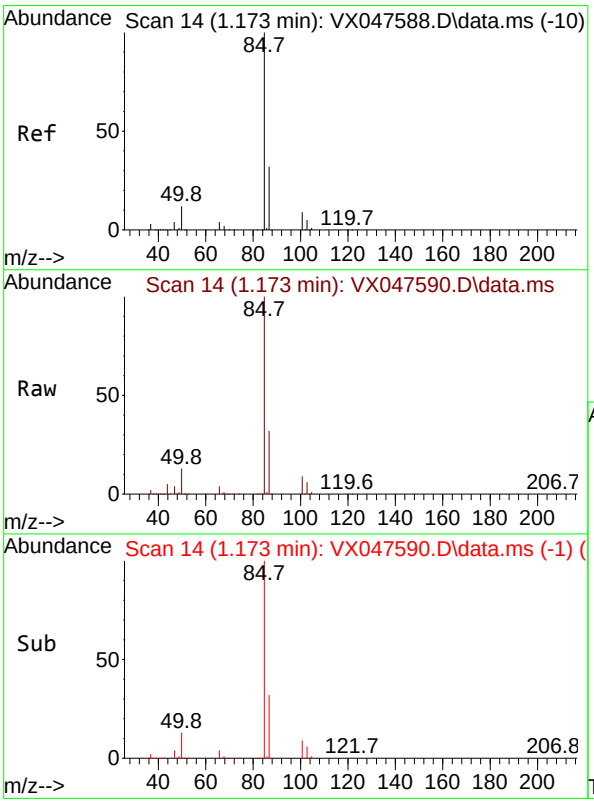
Ion	Ratio	Lower	Upper
168	100		
99	61.1	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

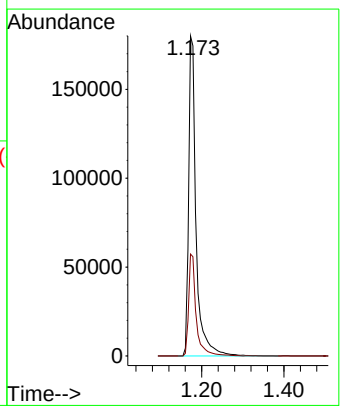
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

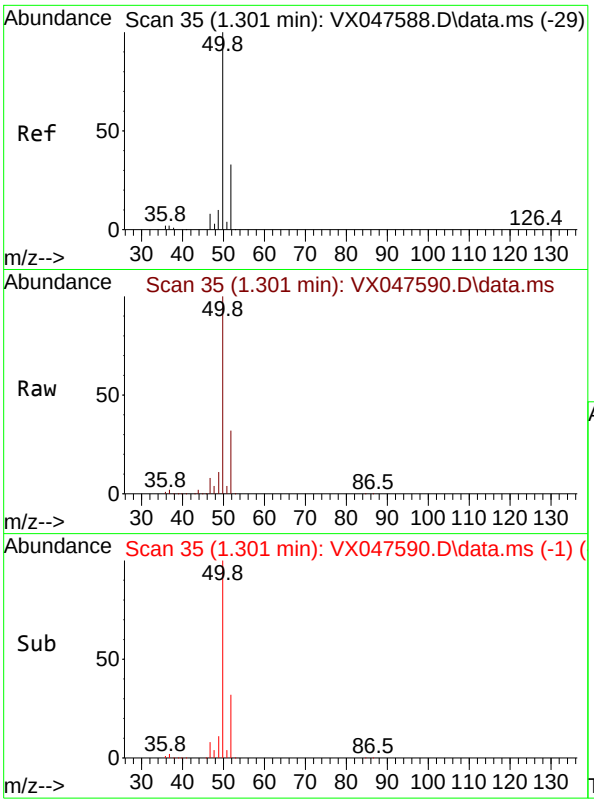


#2
Dichlorodifluoromethane
Concen: 142.586 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 85 Resp: 226166

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.8	47.3

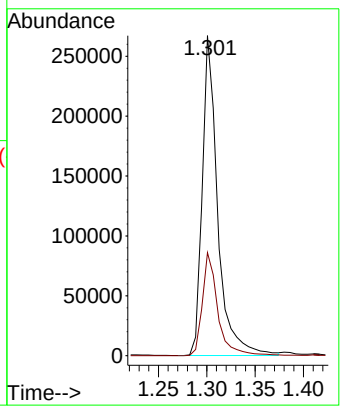




#3
Chloromethane
Concen: 142.593 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 50 Resp: 29725

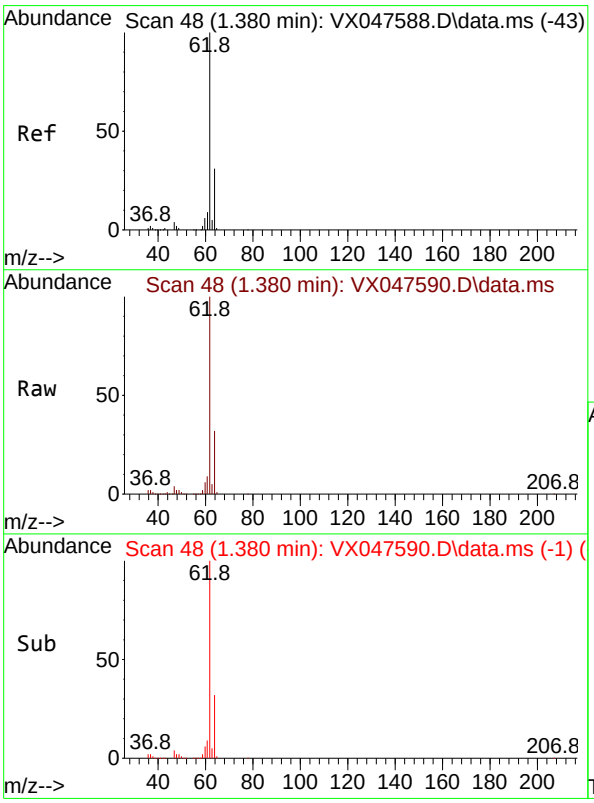
Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

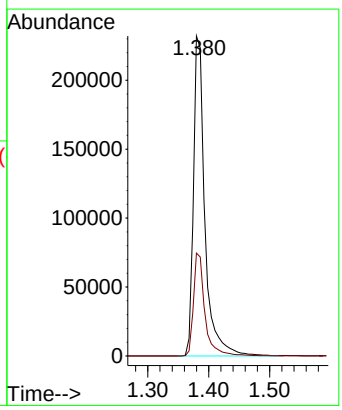
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

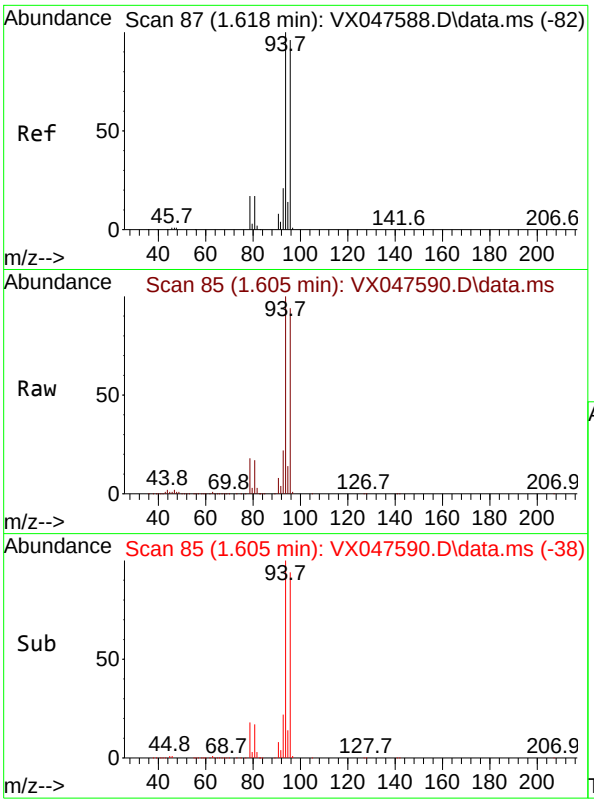


#4
Vinyl Chloride
Concen: 148.140 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 302303

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.9	37.3

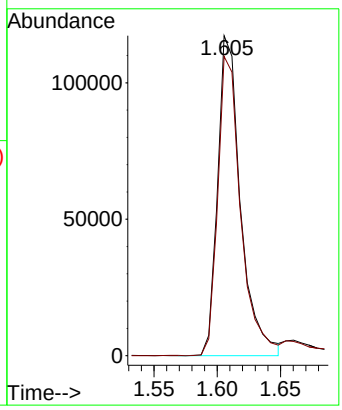




#5
Bromomethane
Concen: 114.019 ug/l
RT: 1.605 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 94 Resp: 14754

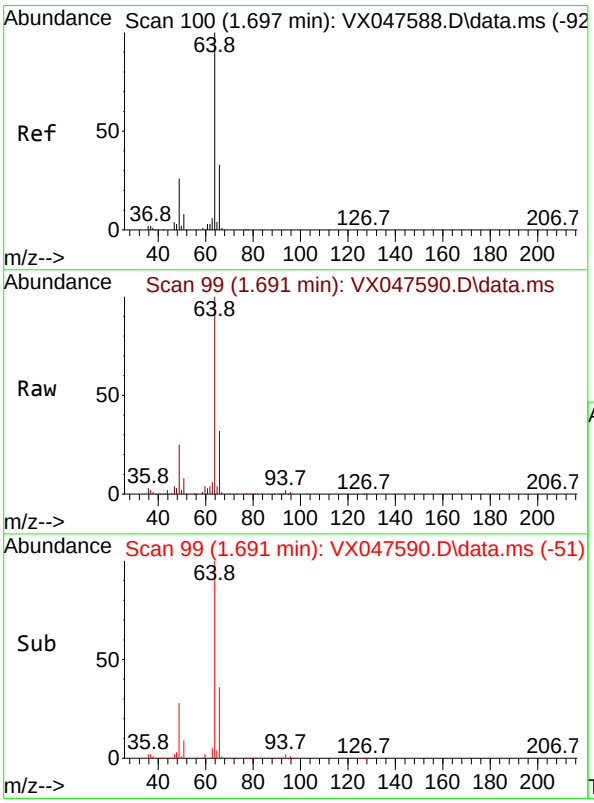
Ion	Ratio	Lower	Upper
94	100		
96	93.4	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

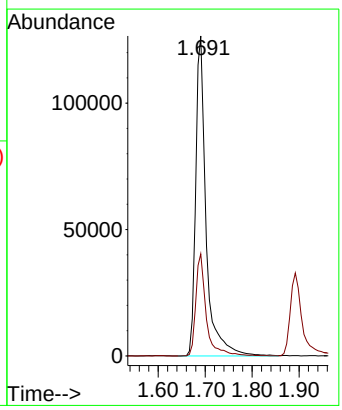
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

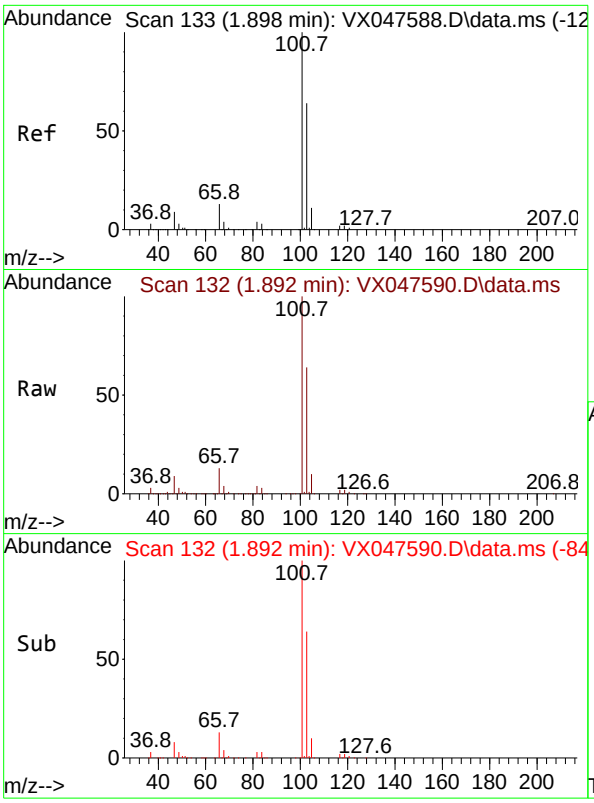


#6
Chloroethane
Concen: 143.652 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 64 Resp: 195927

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1

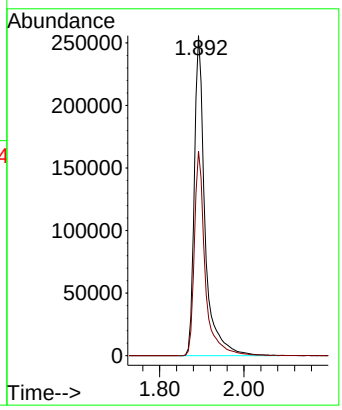




#7
Trichlorofluoromethane
Concen: 149.545 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:101 Resp: 45311

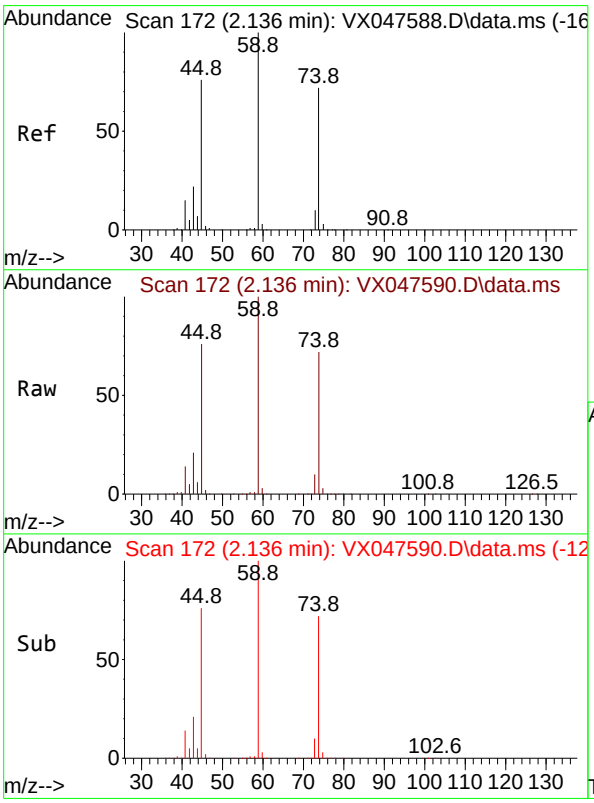
Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

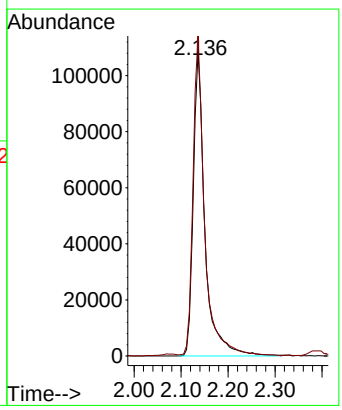
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

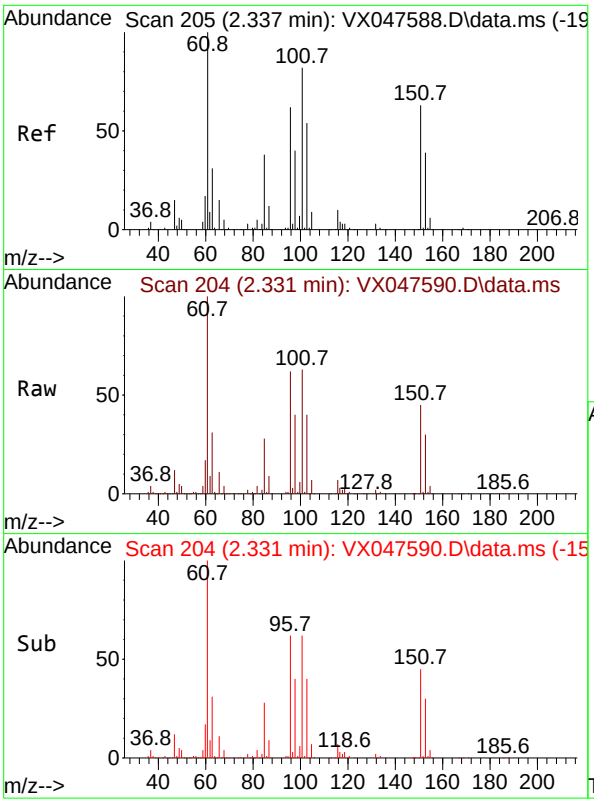


#8
Diethyl Ether
Concen: 151.684 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 74 Resp: 188006

Ion	Ratio	Lower	Upper
74	100		
45	105.5	52.3	156.8

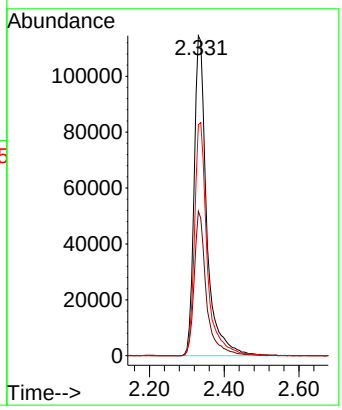




#9
1,1,2-Trichlorotrifluoroethane
Concen: 151.264 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:101 Resp: 26799

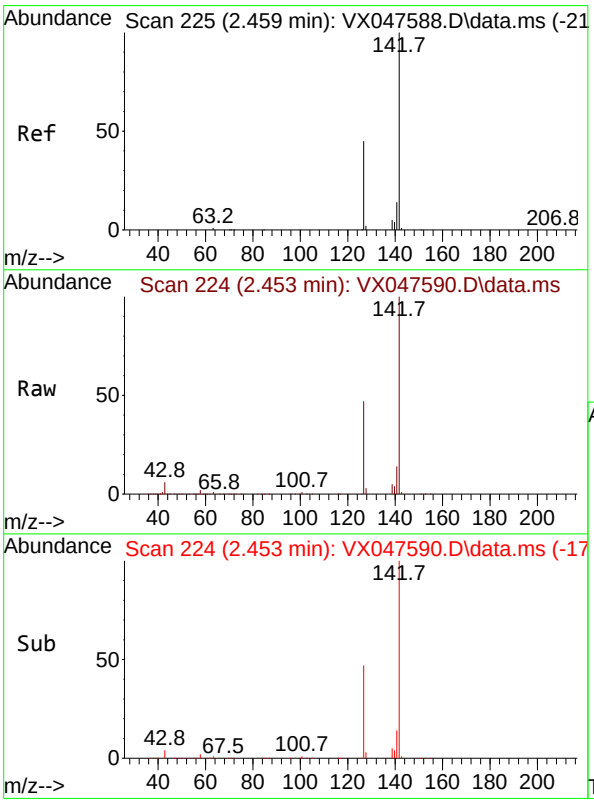
Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.5	53.3
151	73.2	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

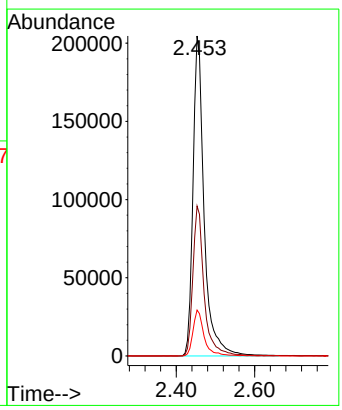
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

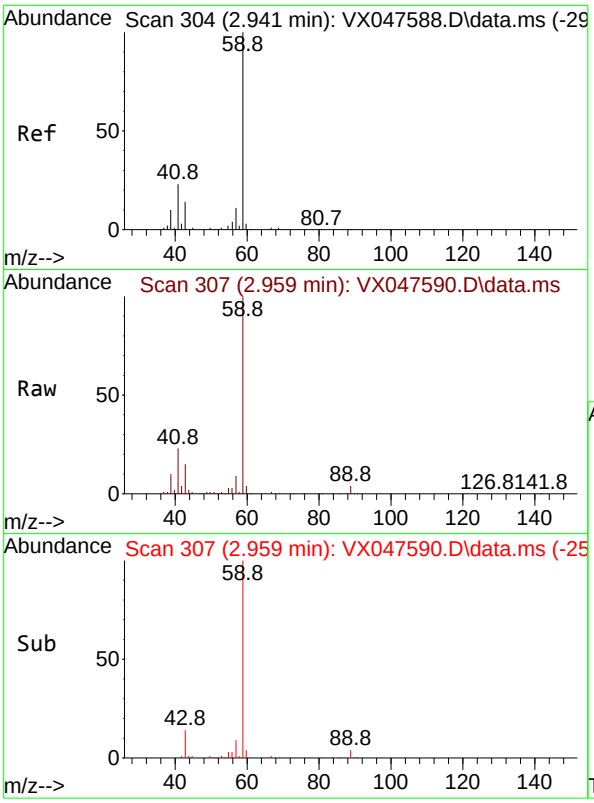


#10
Methyl Iodide
Concen: 147.384 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:142 Resp: 407242

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.3	11.4	17.0

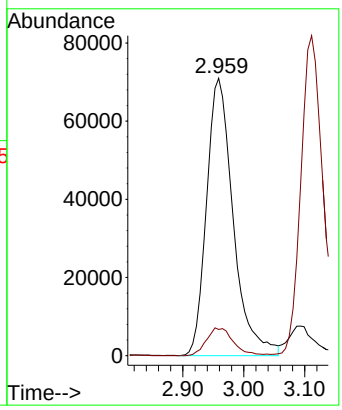




#11
Tert butyl alcohol
Concen: 795.166 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 59 Resp: 21592

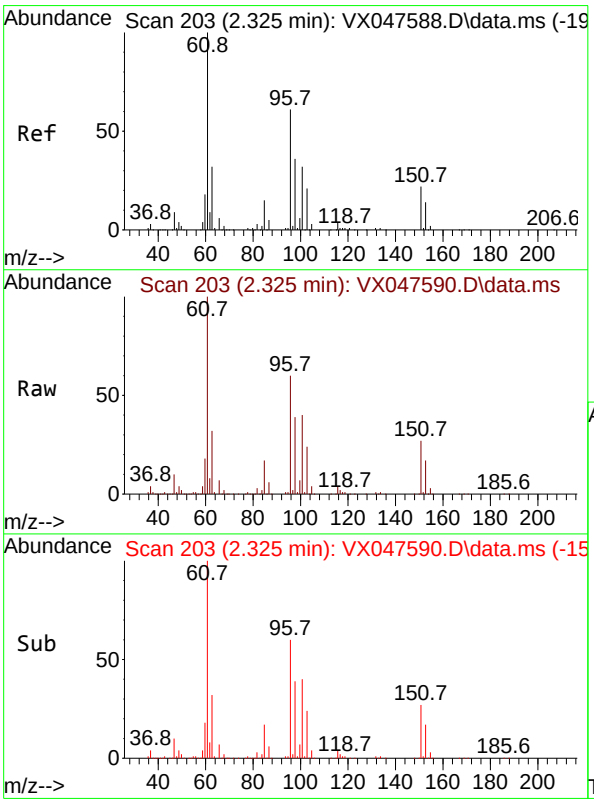
Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

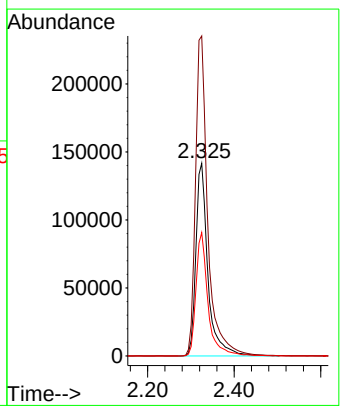
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

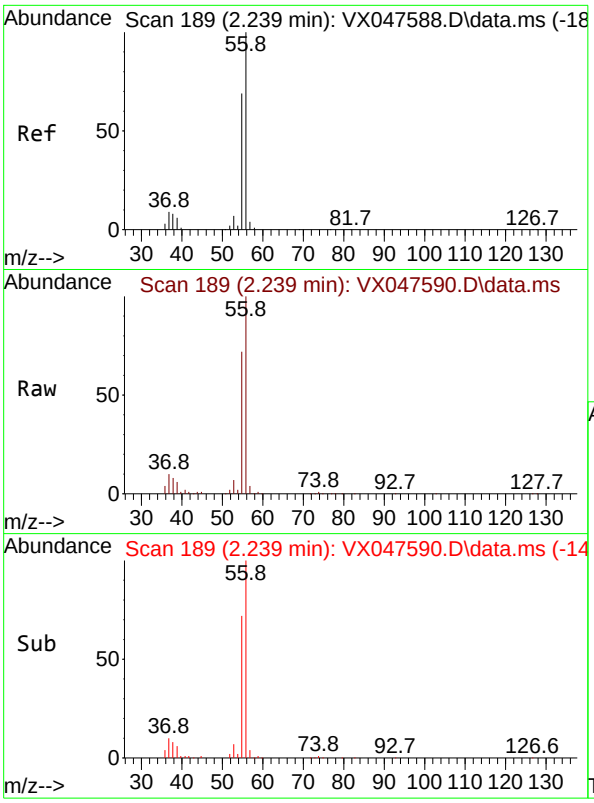


#12
1,1-Dichloroethene
Concen: 150.388 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 273692

Ion	Ratio	Lower	Upper
96	100		
61	166.1	131.0	196.6
98	64.0	47.7	71.5

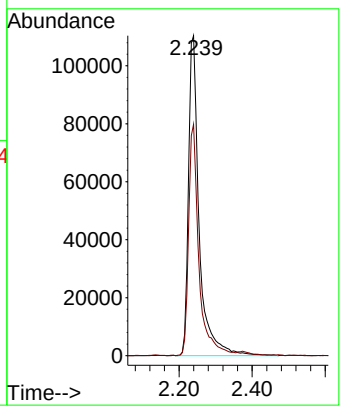




#13
Acrolein
Concen: 894.203 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 56 Resp: 22376

Ion	Ratio	Lower	Upper
56	100		
55	69.6	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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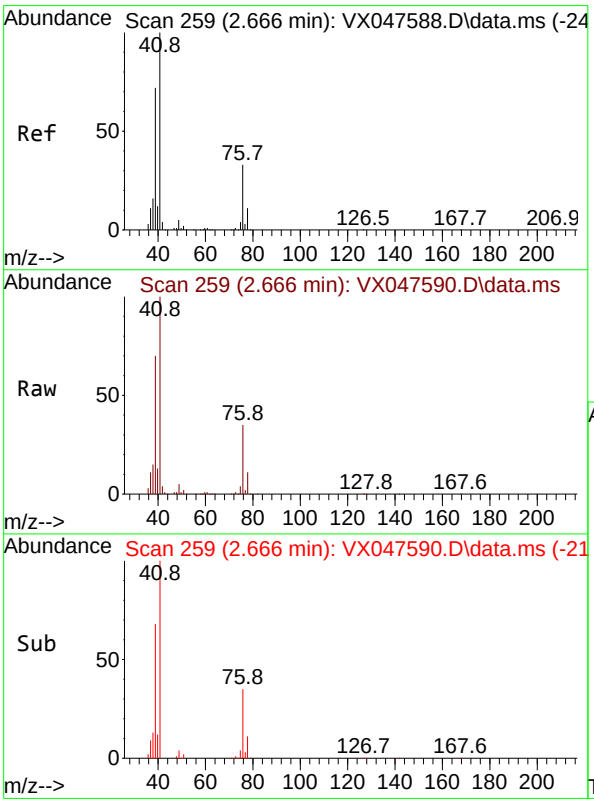
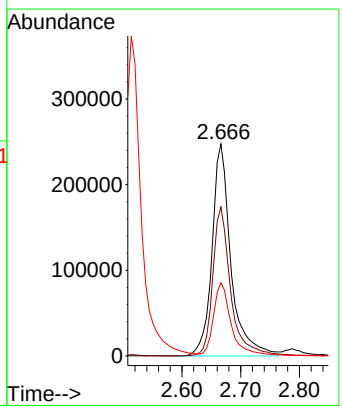
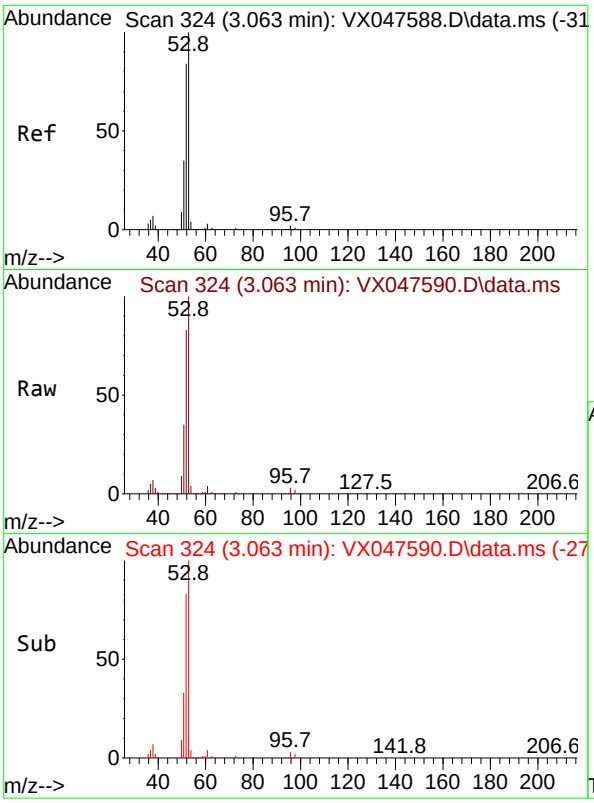


#14
Allyl chloride
Concen: 147.727 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 554779

Ion	Ratio	Lower	Upper
41	100		
39	67.3	54.7	82.1
76	32.4	25.7	38.5





#15
Acrylonitrile
Concen: 786.201 ug/l
RT: 3.063 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 53 Resp: 79079

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.1	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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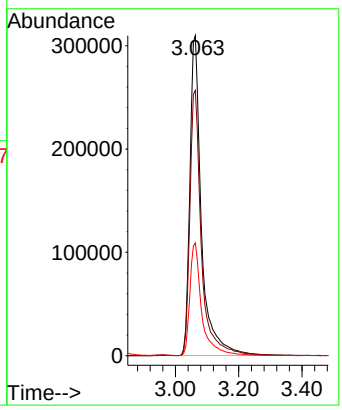
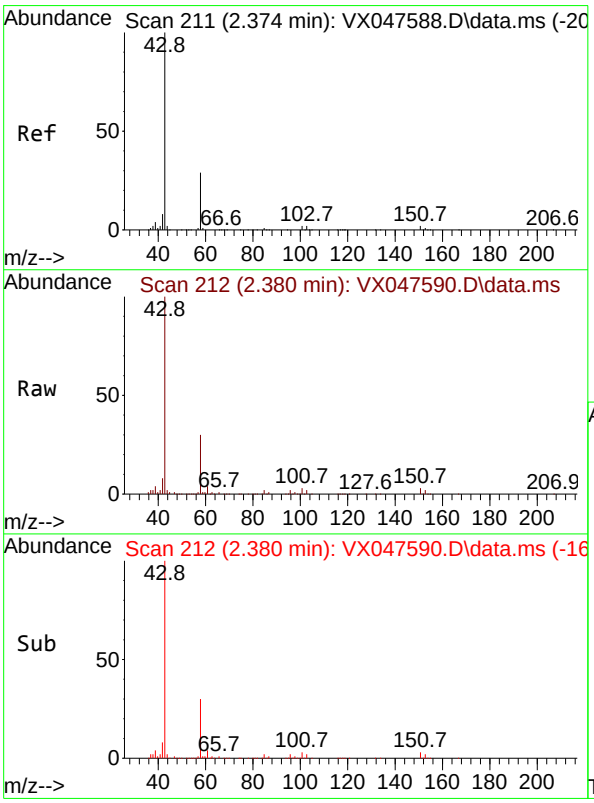
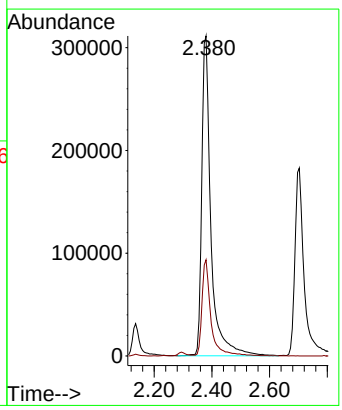


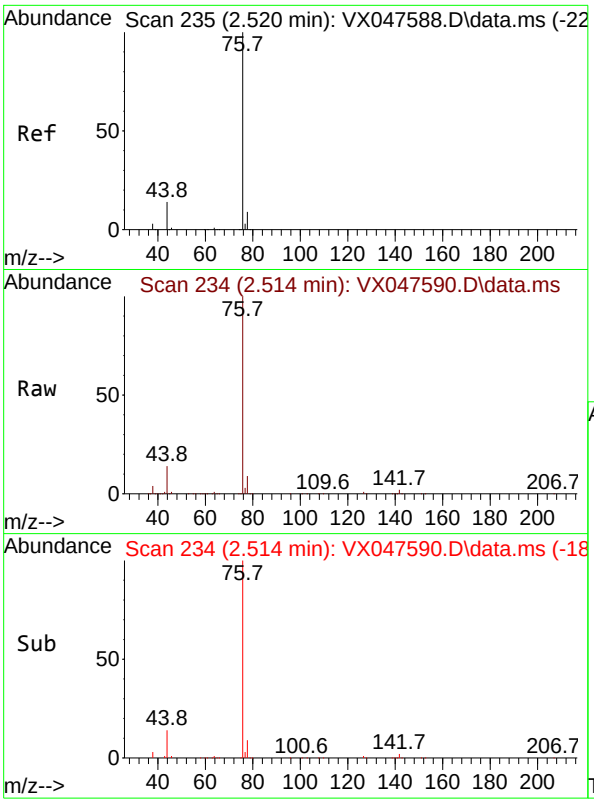


#16
Acetone
Concen: 647.201 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 686119

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0

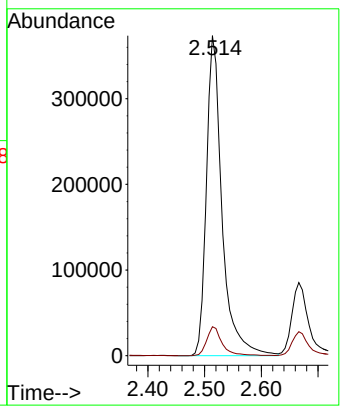




#17
Carbon Disulfide
Concen: 143.412 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 76 Resp: 71450

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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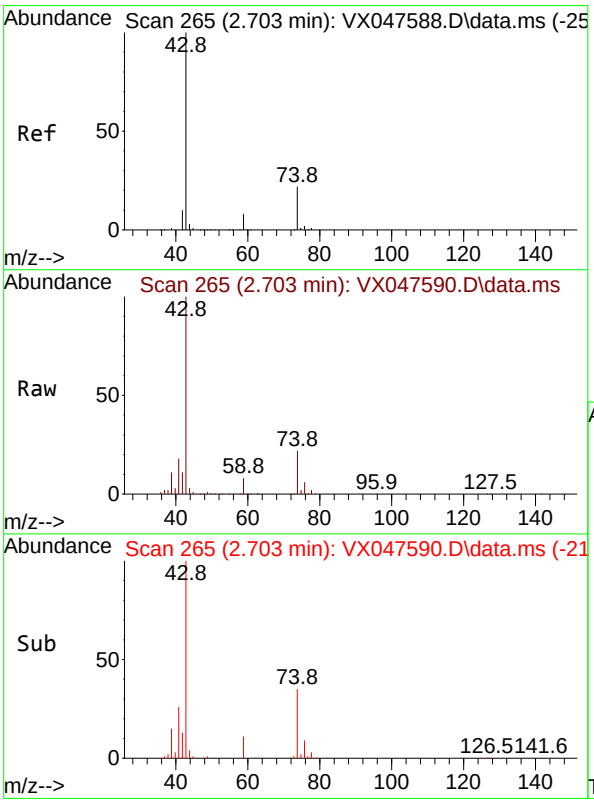
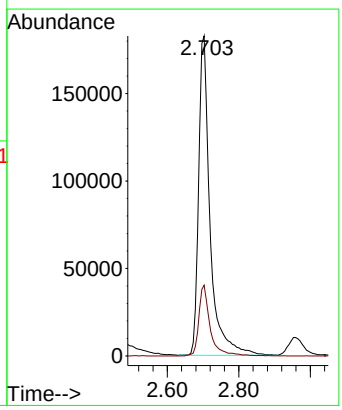
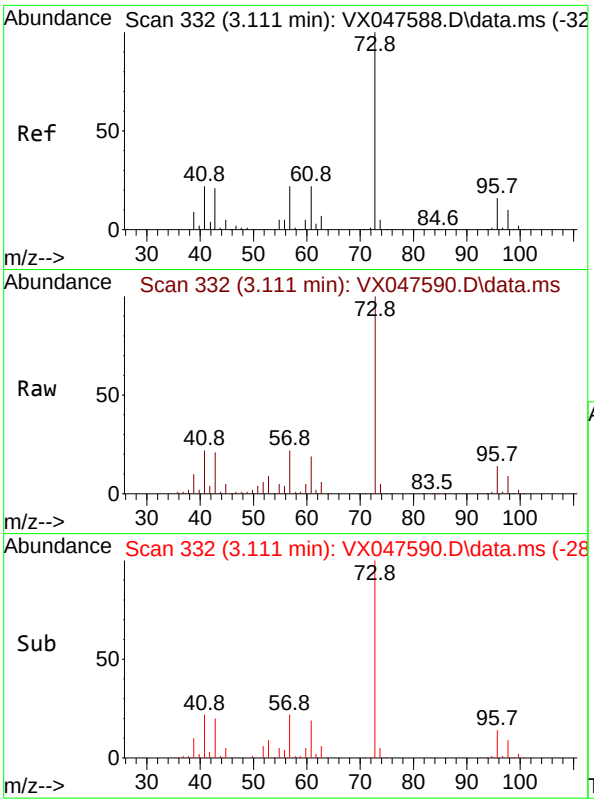


#18
Methyl Acetate
Concen: 171.548 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 404736

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2

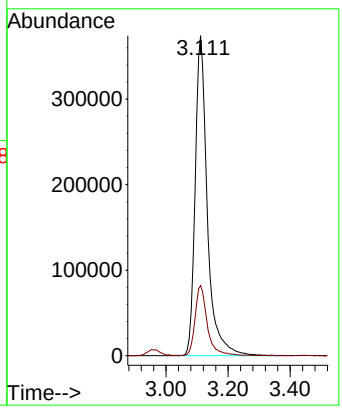




#19
Methyl tert-butyl Ether
Concen: 152.826 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 73 Resp: 101529

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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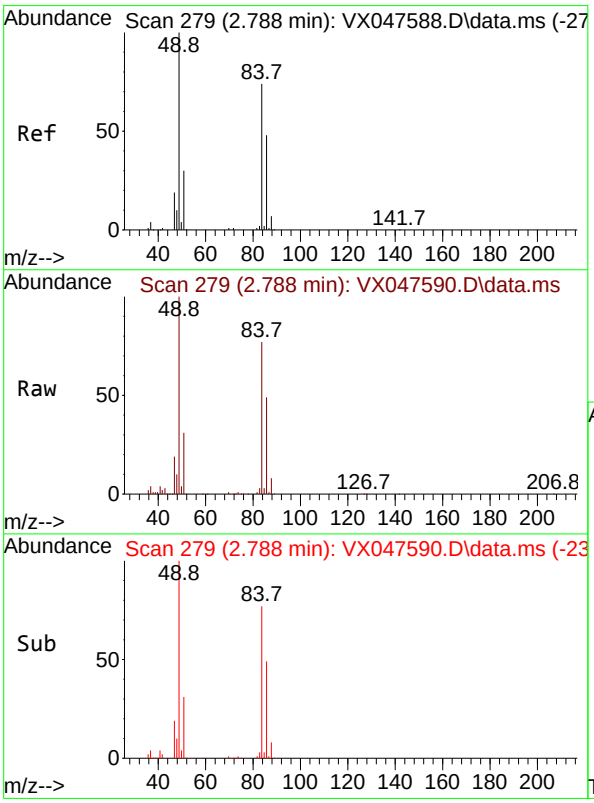
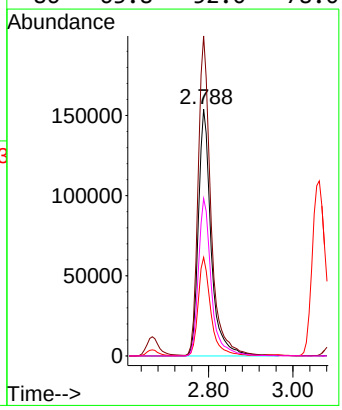
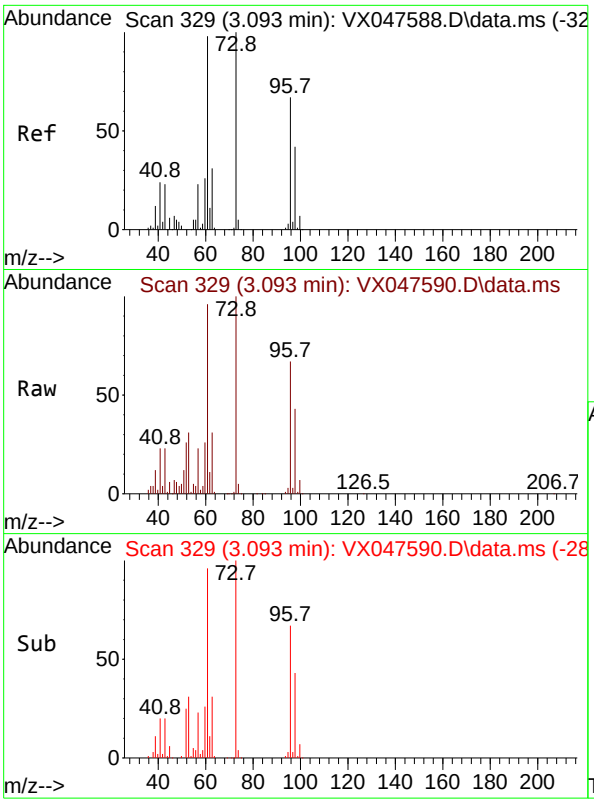


#20
Methylene Chloride
Concen: 144.398 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 84 Resp: 324032

Ion	Ratio	Lower	Upper
84	100		
49	129.4	108.6	162.8
51	39.9	32.6	48.8
86	63.8	52.0	78.0

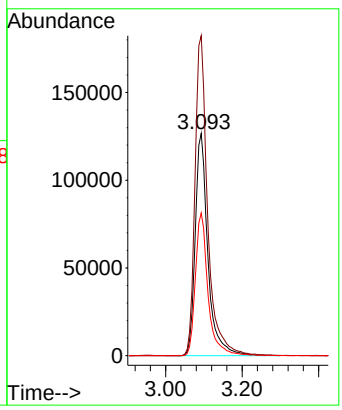




#21
trans-1,2-Dichloroethene
Concen: 148.833 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 29161

Ion	Ratio	Lower	Upper
96	100		
61	144.0	116.2	174.2
98	64.3	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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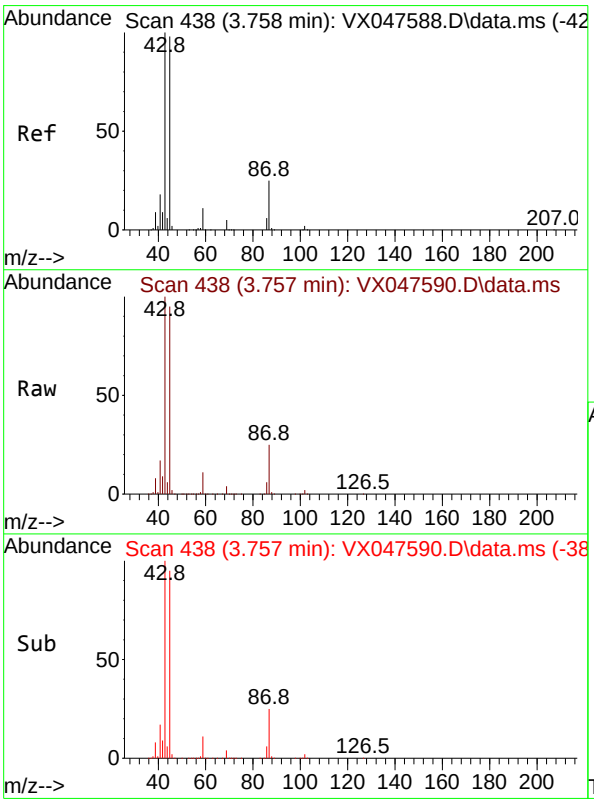
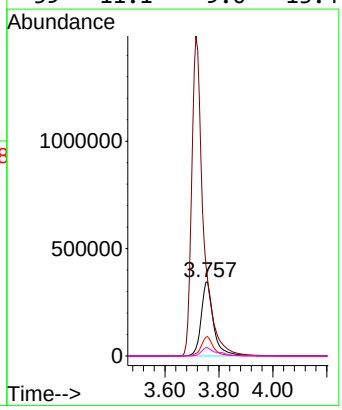
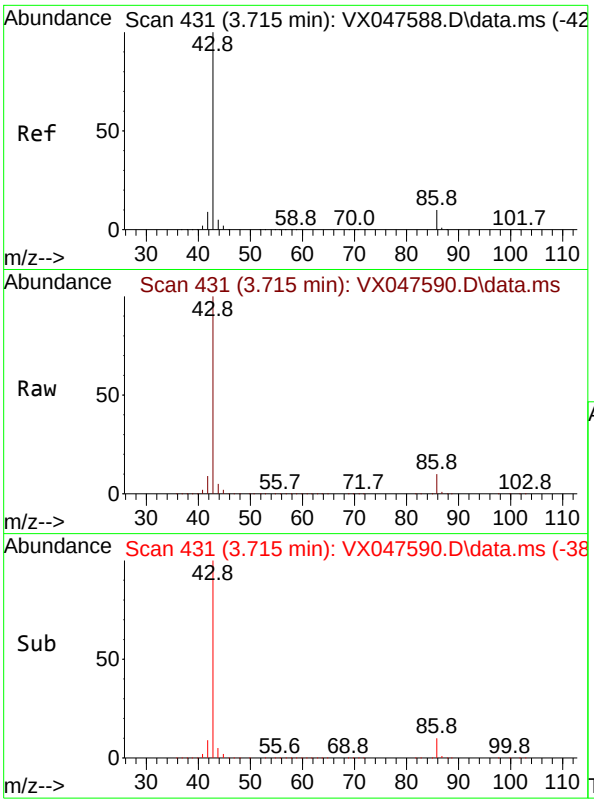


#22
Diisopropyl ether
Concen: 150.551 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 45 Resp: 1095726

Ion	Ratio	Lower	Upper
45	100		
43	104.7	81.0	121.4
87	26.2	20.3	30.5
59	11.1	9.0	13.4





#23
Vinyl Acetate
Concen: 773.364 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 450484

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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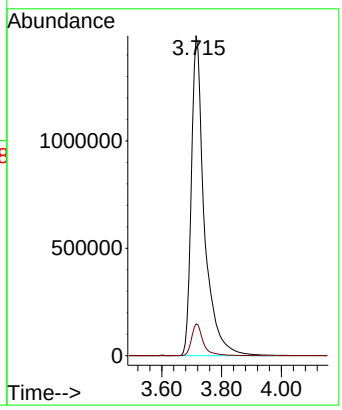
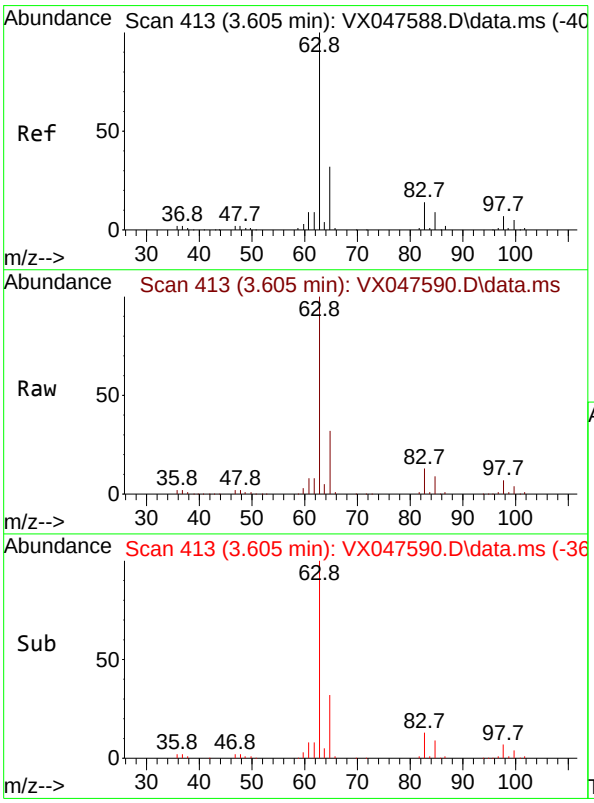
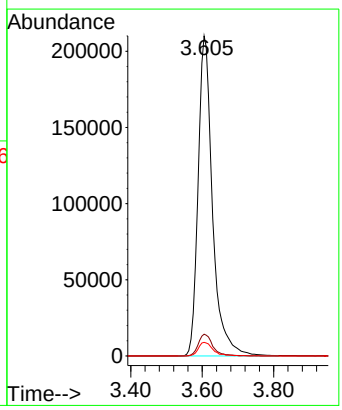


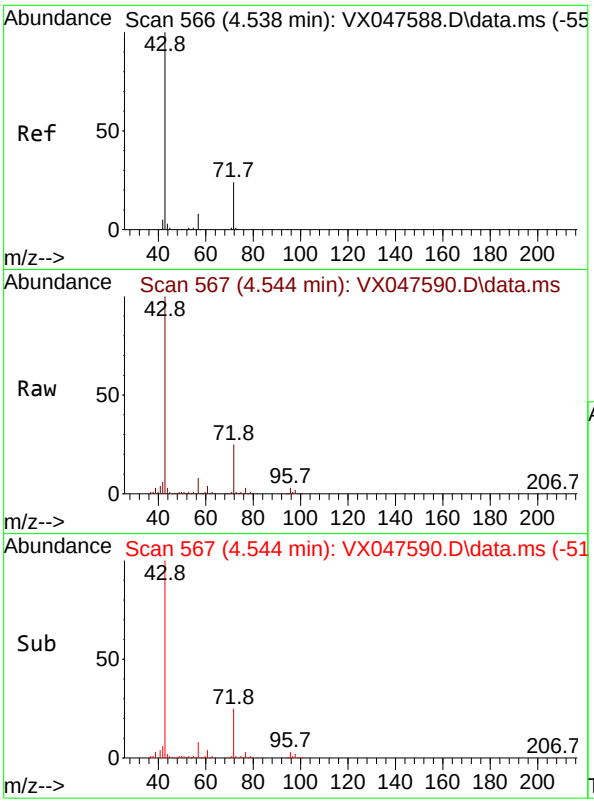


#24
1,1-Dichloroethane
Concen: 151.776 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 587129

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.8	11.2
100	4.3	2.3	6.9

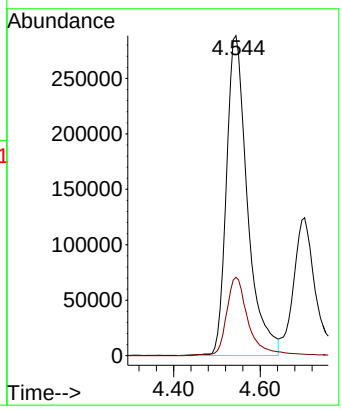




#25
2-Butanone
Concen: 736.502 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 97393

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
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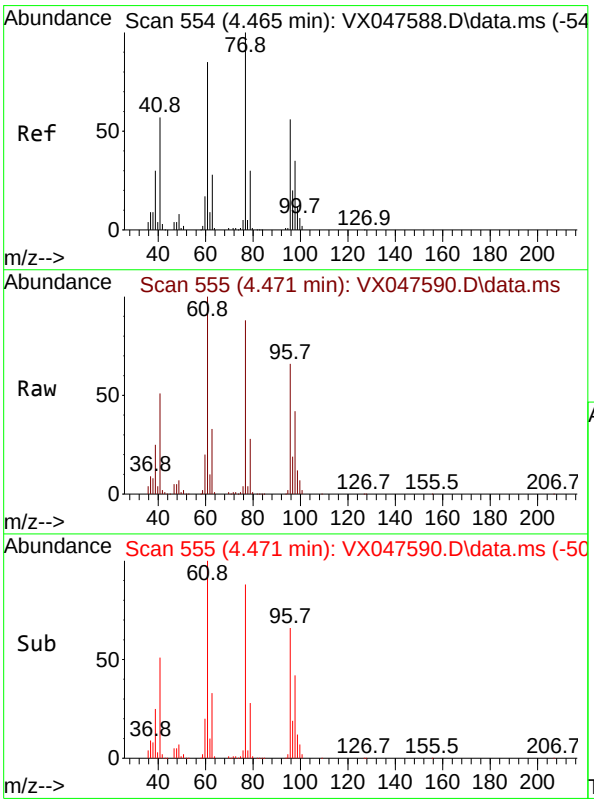
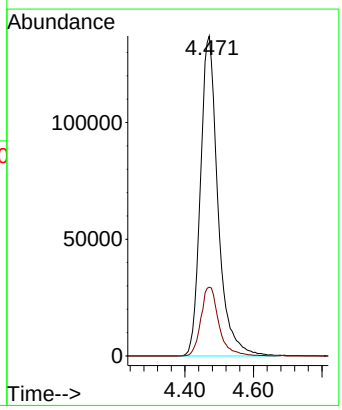
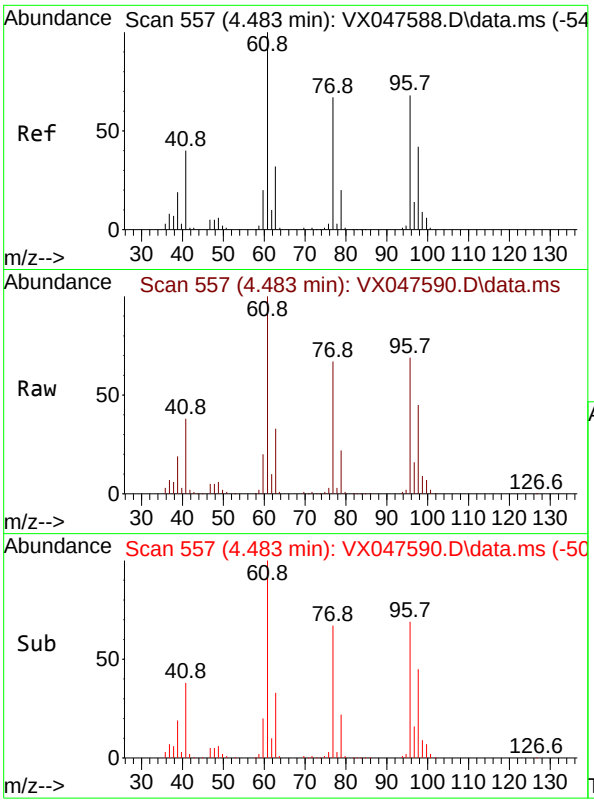


#26
2,2-Dichloropropane
Concen: 151.414 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 77 Resp: 486890

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.9	32.7

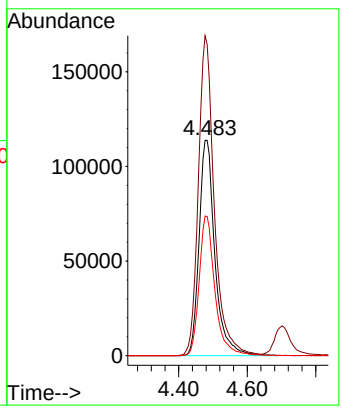




#27
cis-1,2-Dichloroethene
Concen: 152.638 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 36626

Ion	Ratio	Lower	Upper
96	100		
61	149.8	0.0	303.2
98	64.6	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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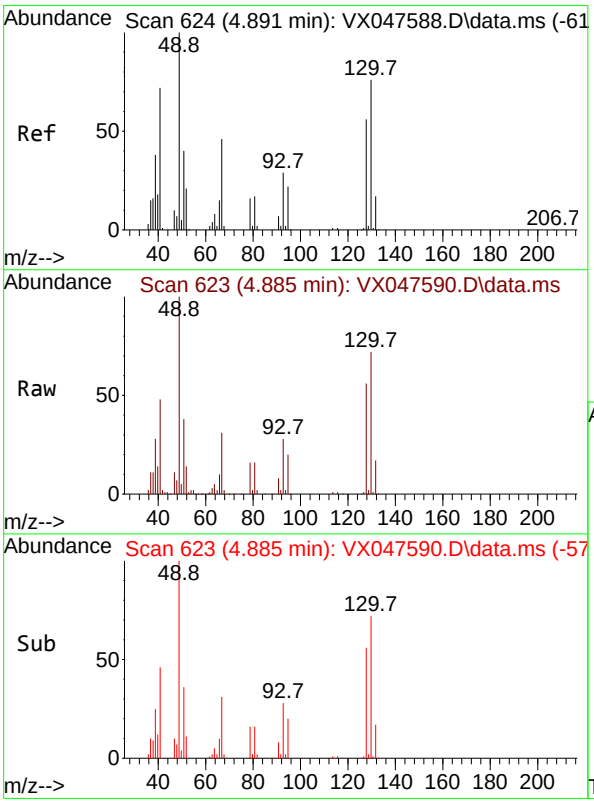
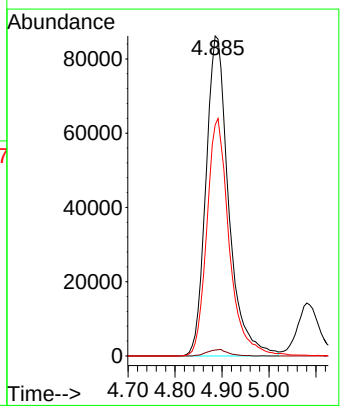
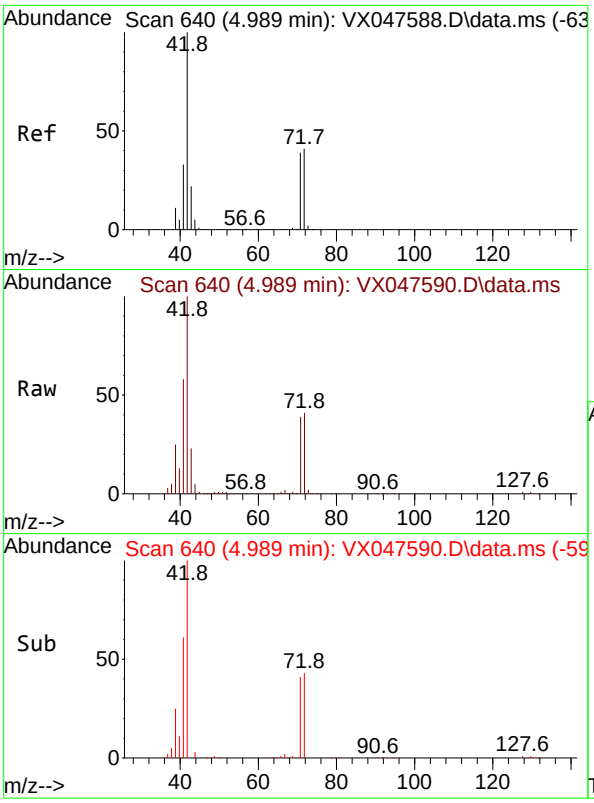


#28
Bromochloromethane
Concen: 171.451 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 49 Resp: 289548

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	73.2	57.8	86.8

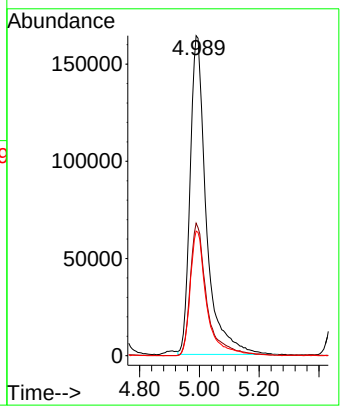




#29
Tetrahydrofuran
Concen: 774.811 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 42 Resp: 61637

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.2	51.2
71	39.9	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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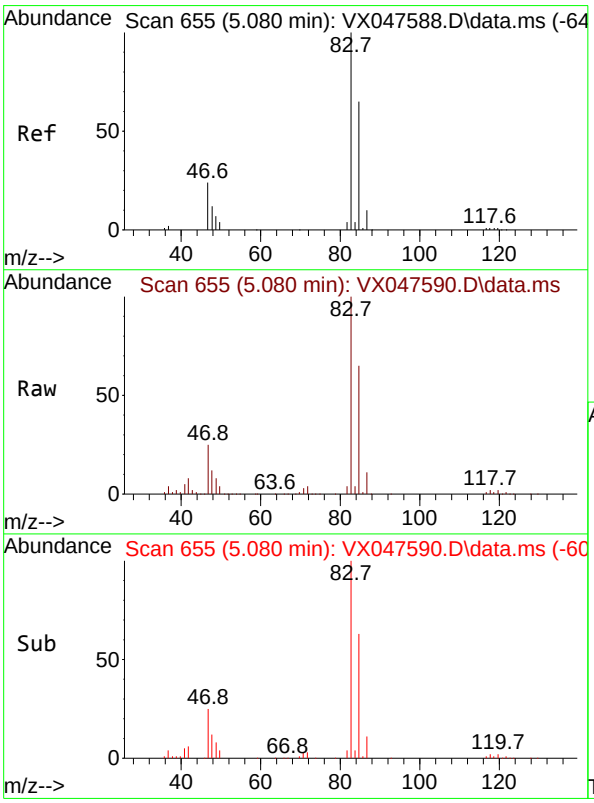
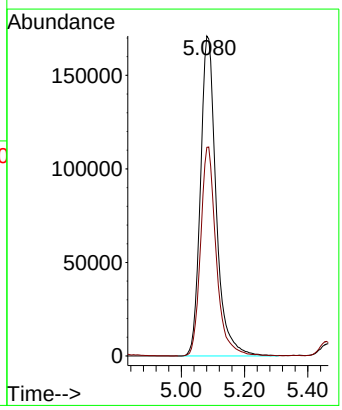
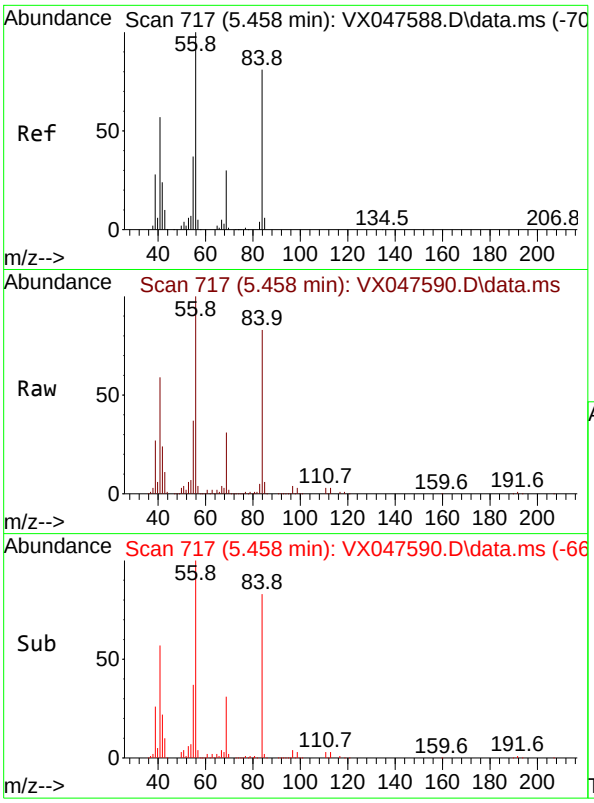


#30
Chloroform
Concen: 151.367 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 591709

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.8	77.6

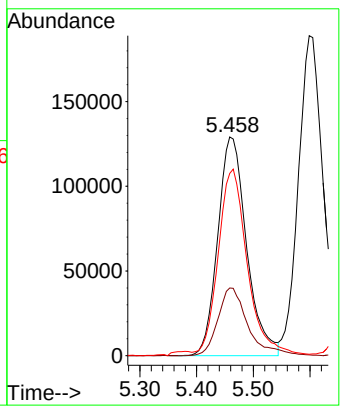




#31
Cyclohexane
Concen: 141.570 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 56 Resp: 45611

Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.8	35.8
84	81.5	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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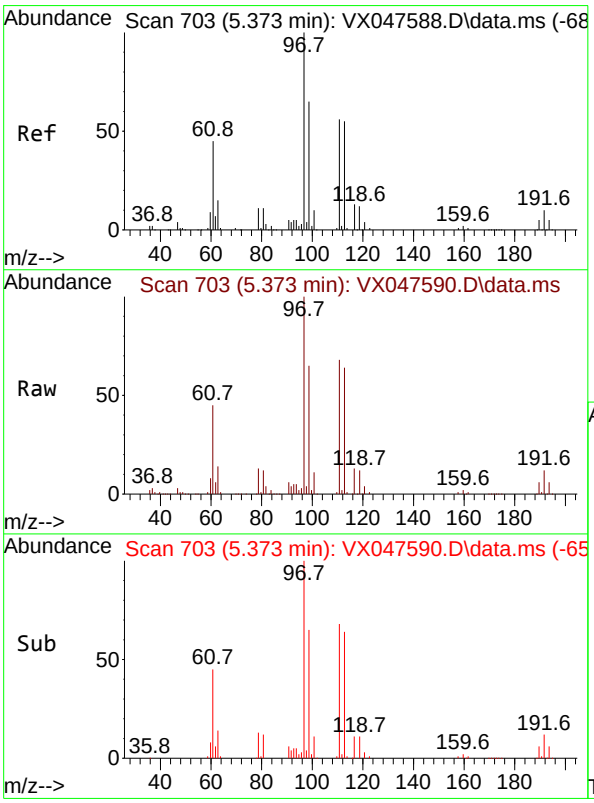
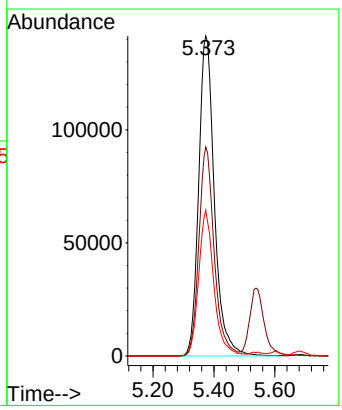
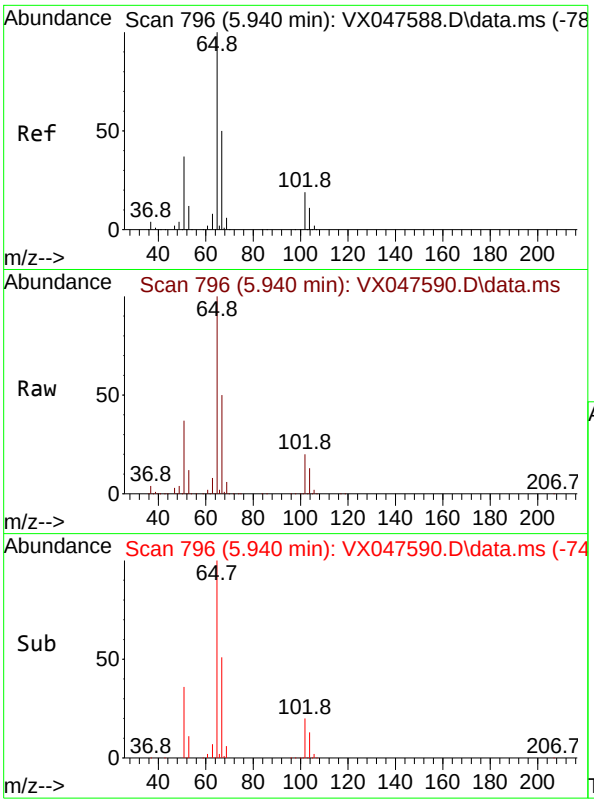


#32
1,1,1-Trichloroethane
Concen: 152.802 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 97 Resp: 506654

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	44.2	35.8	53.8

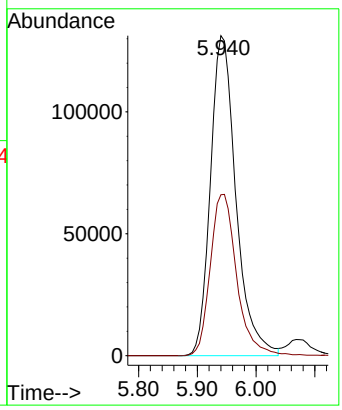




#33
1,2-Dichloroethane-d4
Concen: 162.673 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 65 Resp: 39662

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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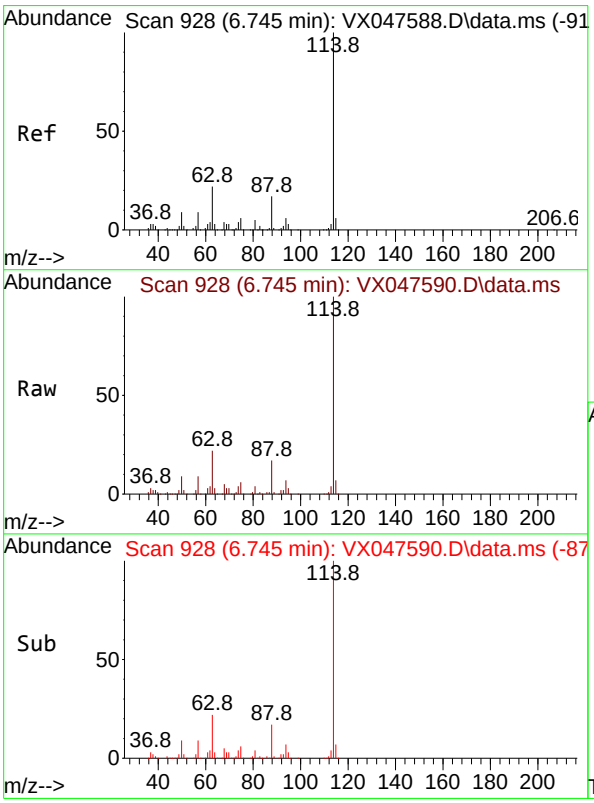
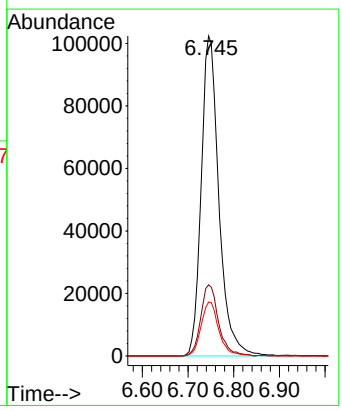
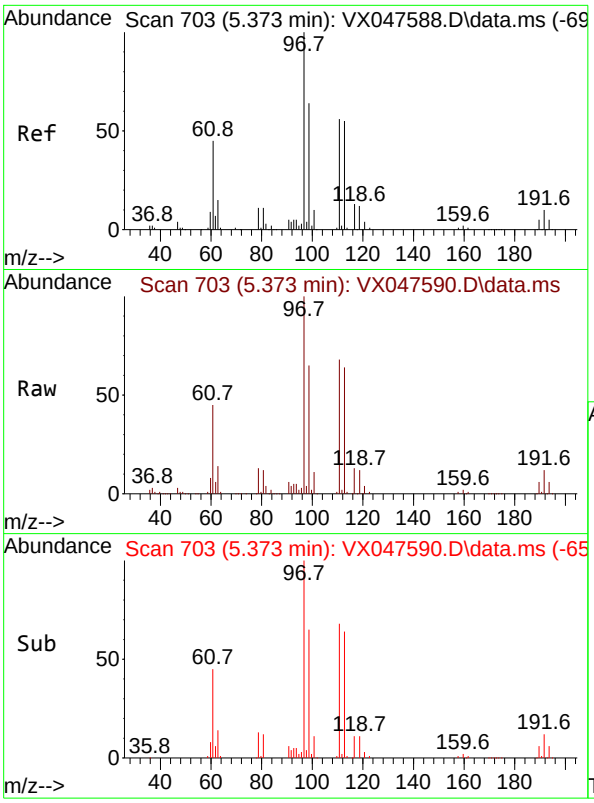


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:114 Resp: 274804

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2

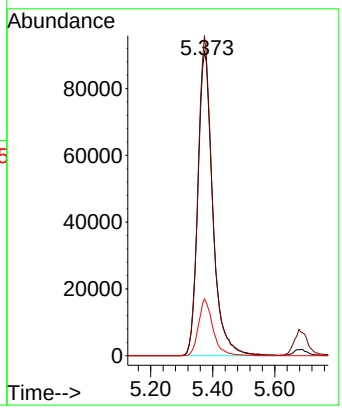




#35
Dibromofluoromethane
Concen: 164.802 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:113 Resp: 30372

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.9	121.3
192	18.1	14.2	21.4



Instrument :
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ClientSampleId :
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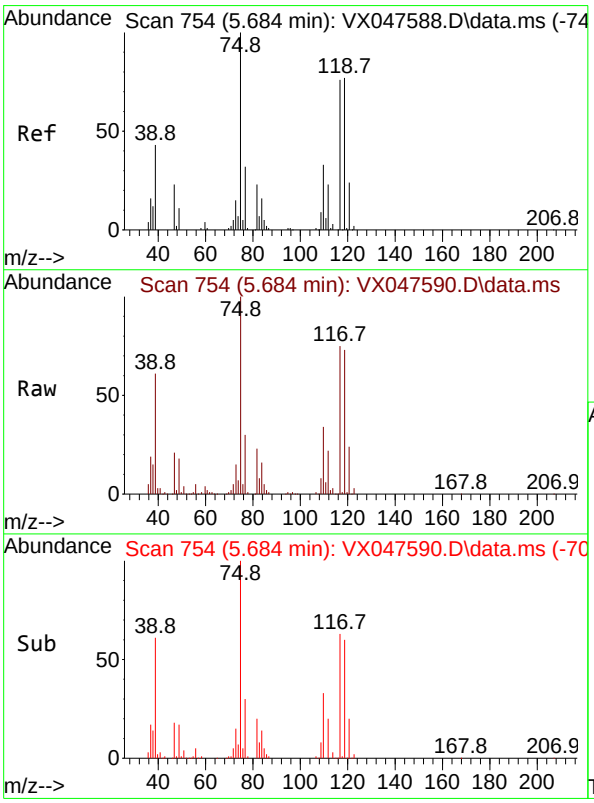
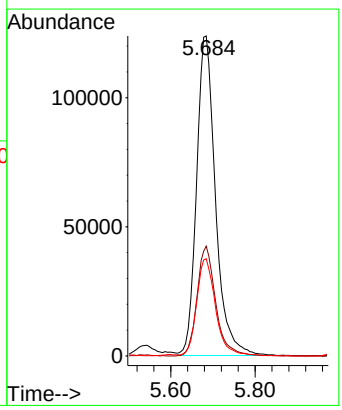
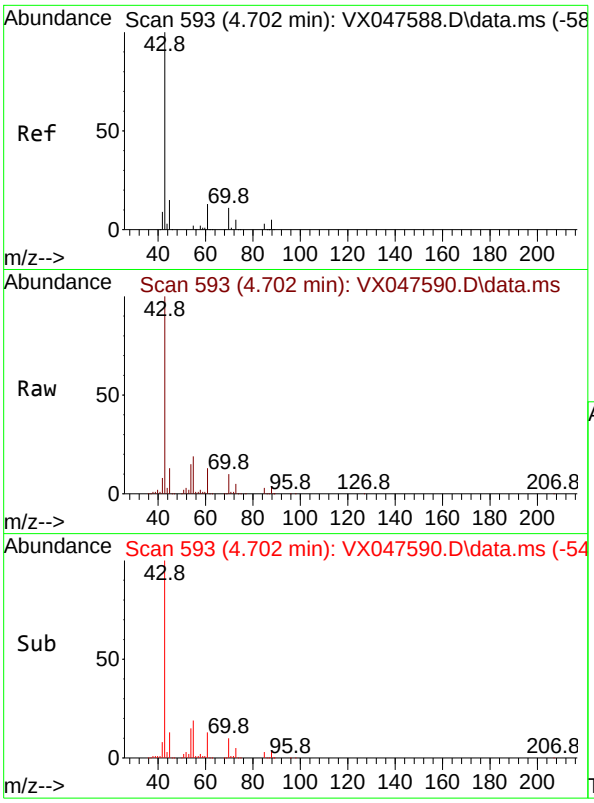


#36
1,1-Dichloropropene
Concen: 143.556 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 386601

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	30.6	24.3	36.5

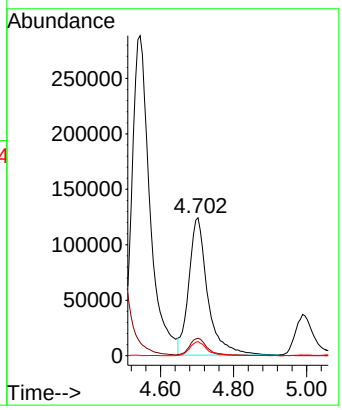




#37
Ethyl Acetate
Concen: 154.141 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 44446

Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.8	14.8
70	9.5	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
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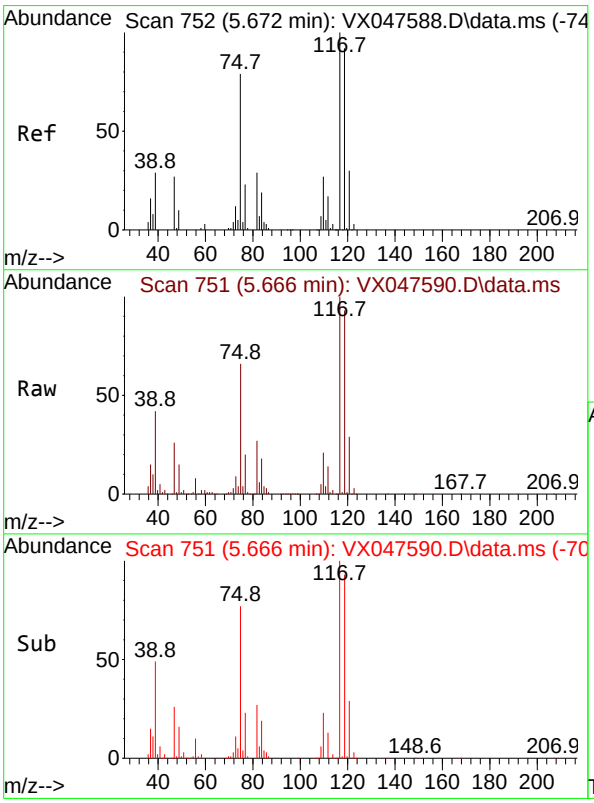
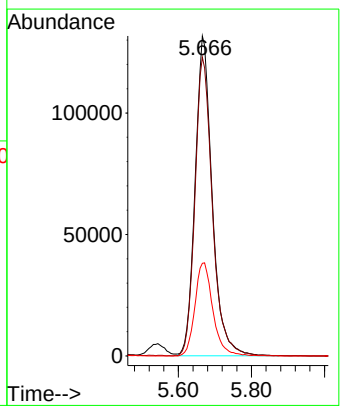
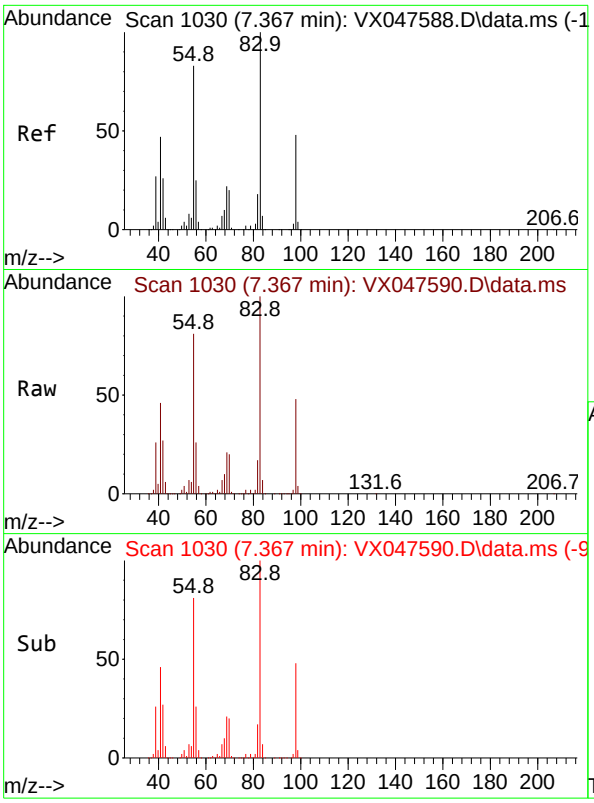


#38
Carbon Tetrachloride
Concen: 146.021 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 427263

Ion	Ratio	Lower	Upper
117	100		
119	93.3	73.4	110.2
121	29.0	23.8	35.6





#39
Methylcyclohexane
Concen: 149.395 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 45669

Ion	Ratio	Lower	Upper
83	100		
55	80.7	66.4	99.6
98	48.3	38.1	57.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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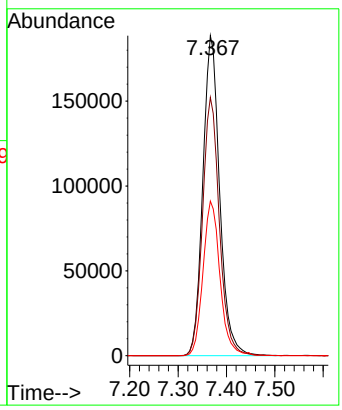
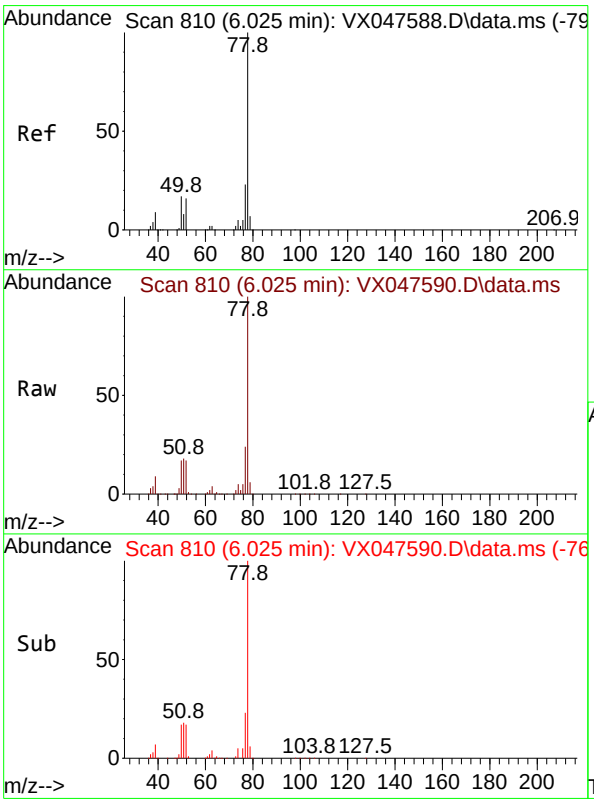
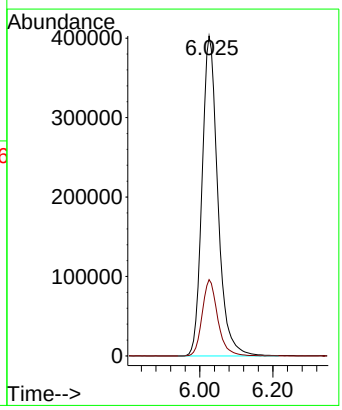


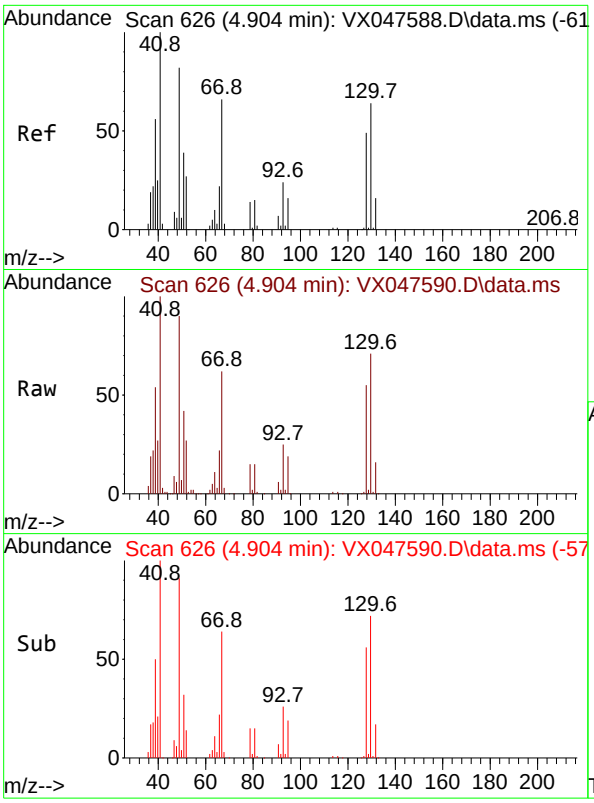


#40
Benzene
Concen: 147.057 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 78 Resp: 1202846

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2

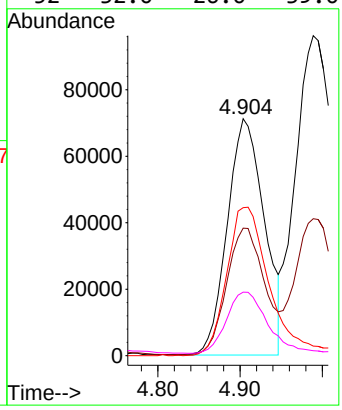




#41
Methacrylonitrile
Concen: 149.951 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 22321

Ion	Ratio	Lower	Upper
41	100		
39	54.5	43.3	64.9
67	74.6	58.6	87.8
52	32.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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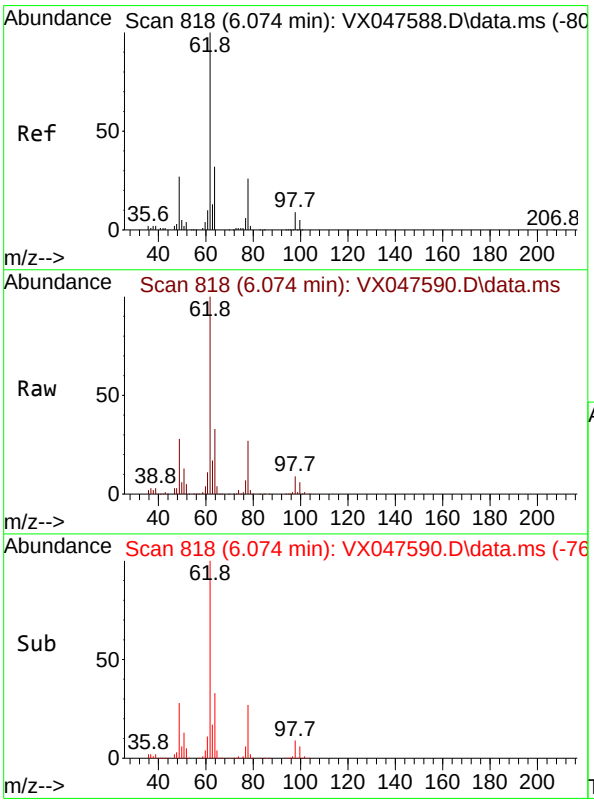
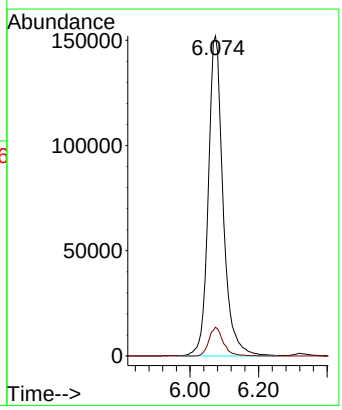
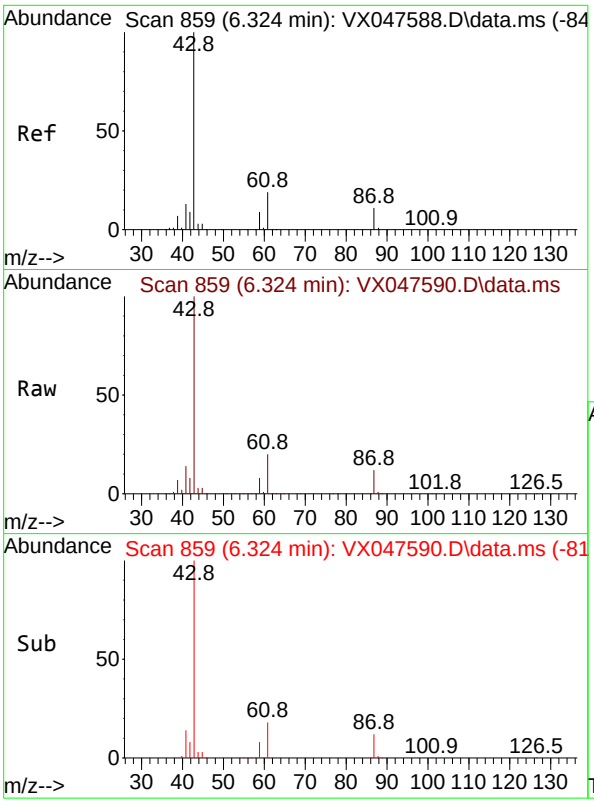


#42
1,2-Dichloroethane
Concen: 146.515 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 455978

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

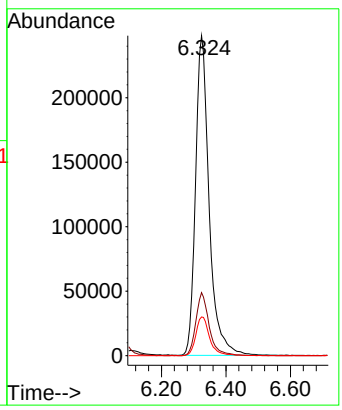




#43
Isopropyl Acetate
Concen: 153.283 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 72488

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.3	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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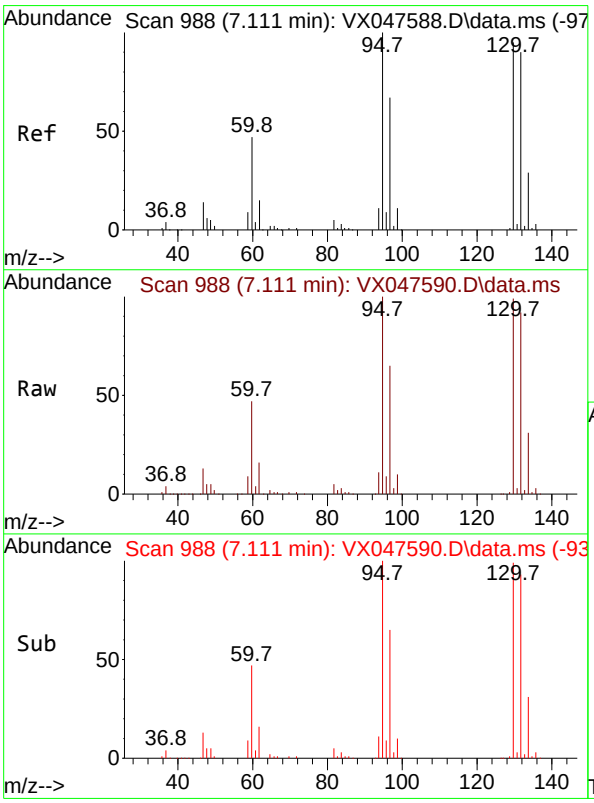
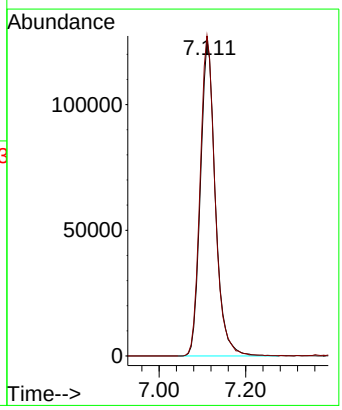
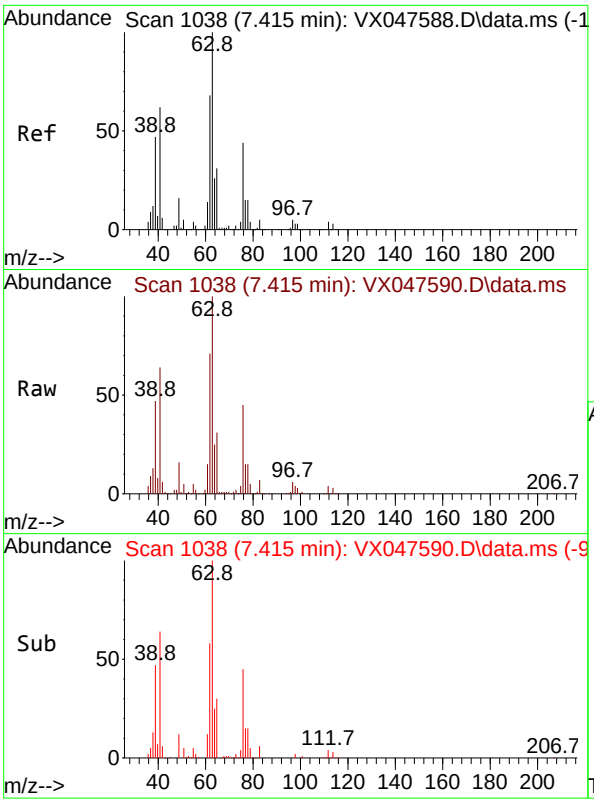


#44
Trichloroethene
Concen: 151.542 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:130 Resp: 299673

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	210.8

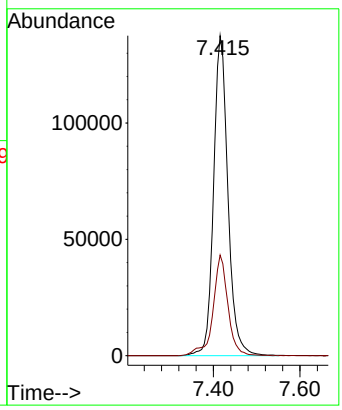




#45
1,2-Dichloropropane
Concen: 151.219 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 31672

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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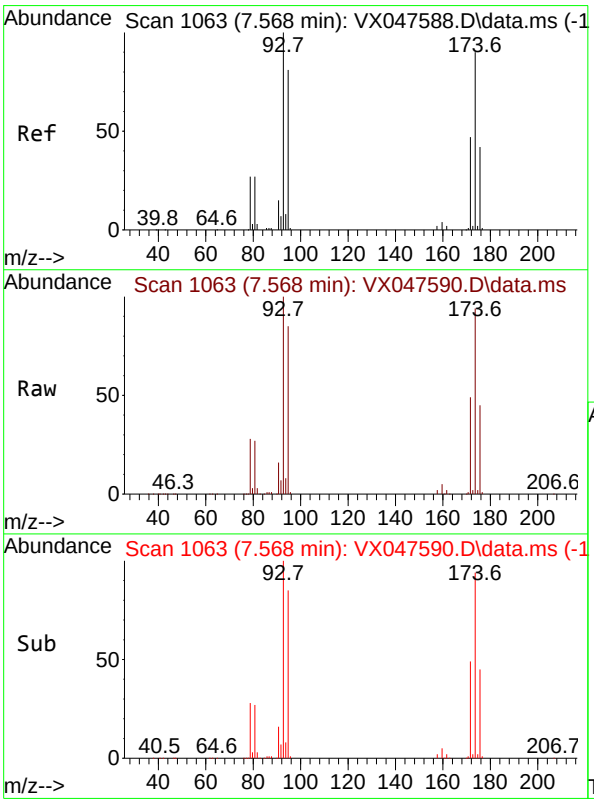
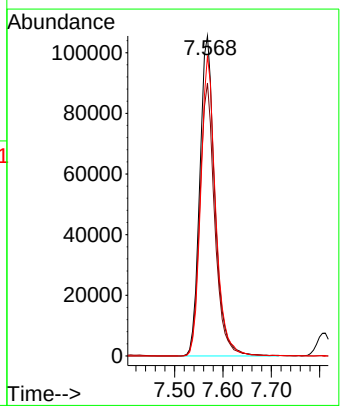
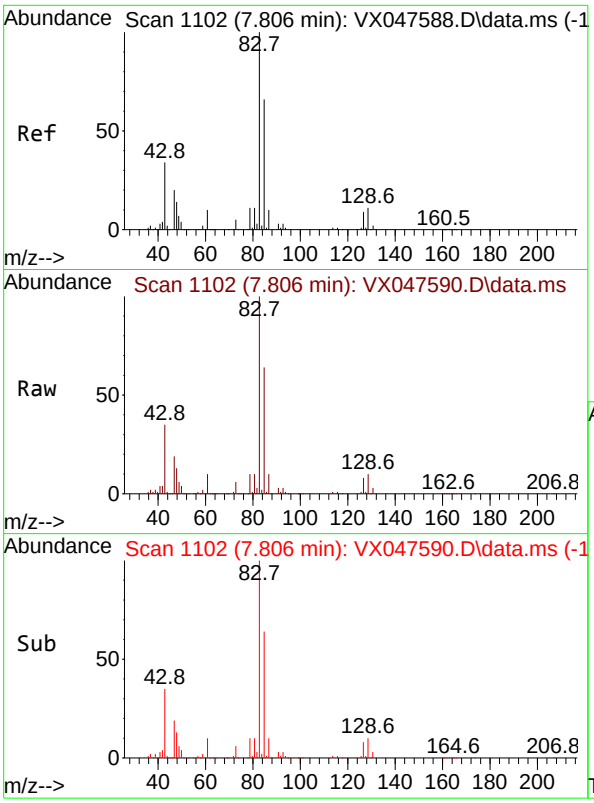


#46
Dibromomethane
Concen: 149.954 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 93 Resp: 228550

Ion	Ratio	Lower	Upper
93	100		
95	84.2	65.0	97.6
174	92.5	71.6	107.4

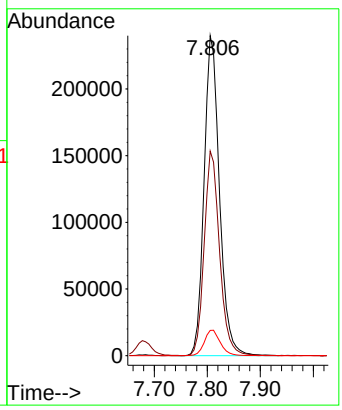




#47
Bromodichloromethane
Concen: 153.710 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 48343

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.5	78.7
127	7.9	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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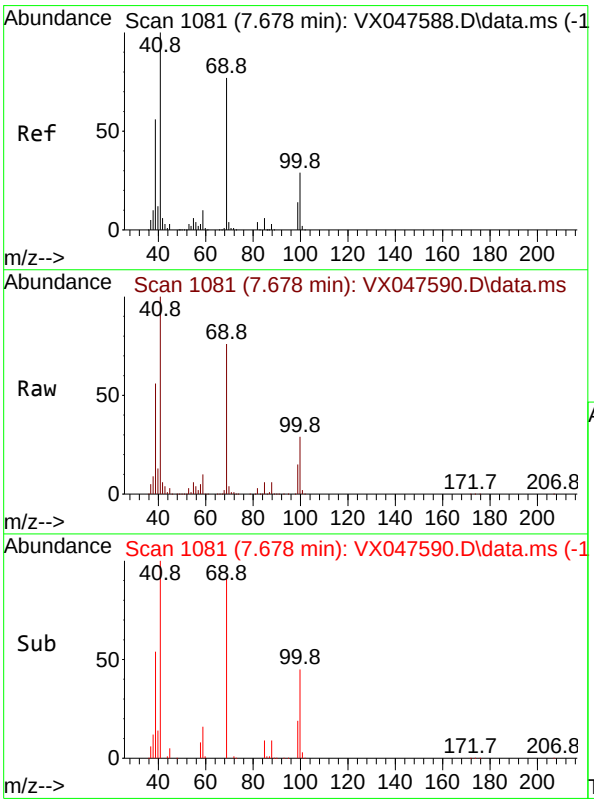
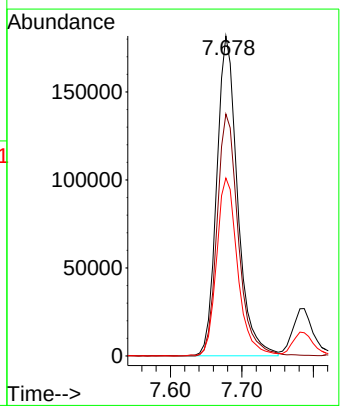
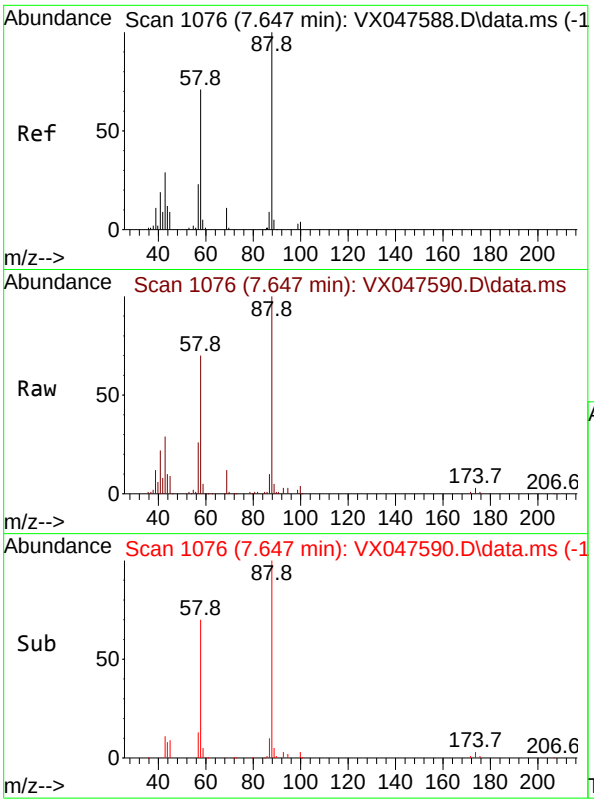


#48
Methyl methacrylate
Concen: 156.194 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 367931

Ion	Ratio	Lower	Upper
41	100		
69	77.2	61.4	92.2
39	56.5	45.8	68.6

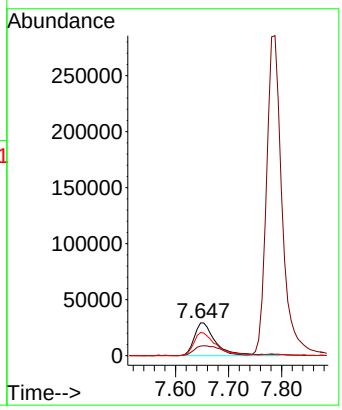




#49
1,4-Dioxane
Concen: 3475.565 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 88 Resp: 8273

Ion	Ratio	Lower	Upper
88	100		
43	38.5	30.2	45.2
58	73.0	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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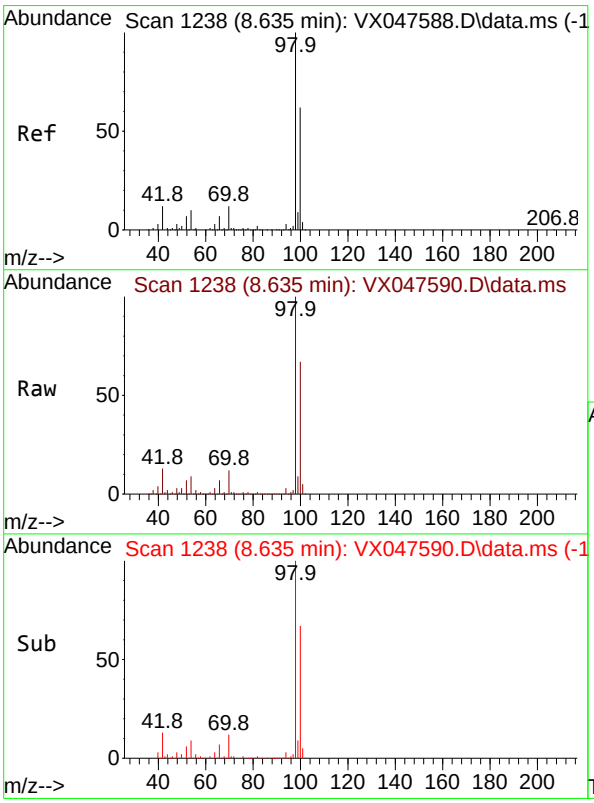
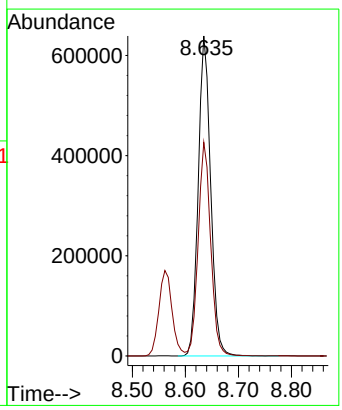
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

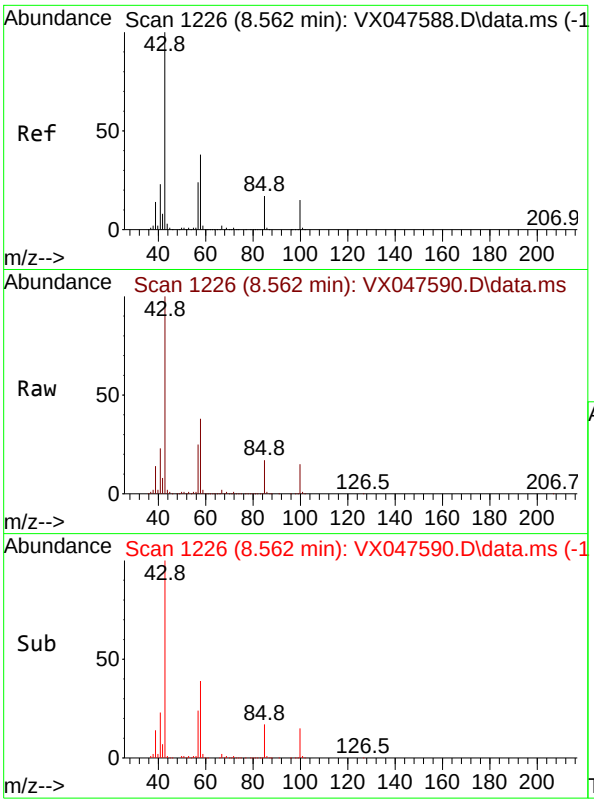


#50
Toluene-d8
Concen: 163.253 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 98 Resp: 1041079

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

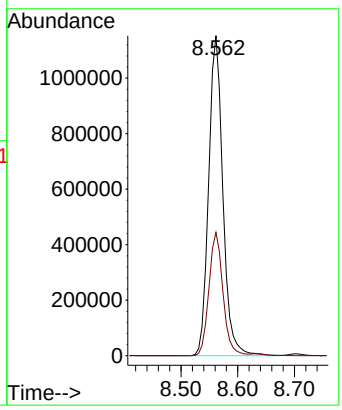




#51
4-Methyl-2-Pentanone
Concen: 765.849 ug/l
RT: 8.562 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 200806

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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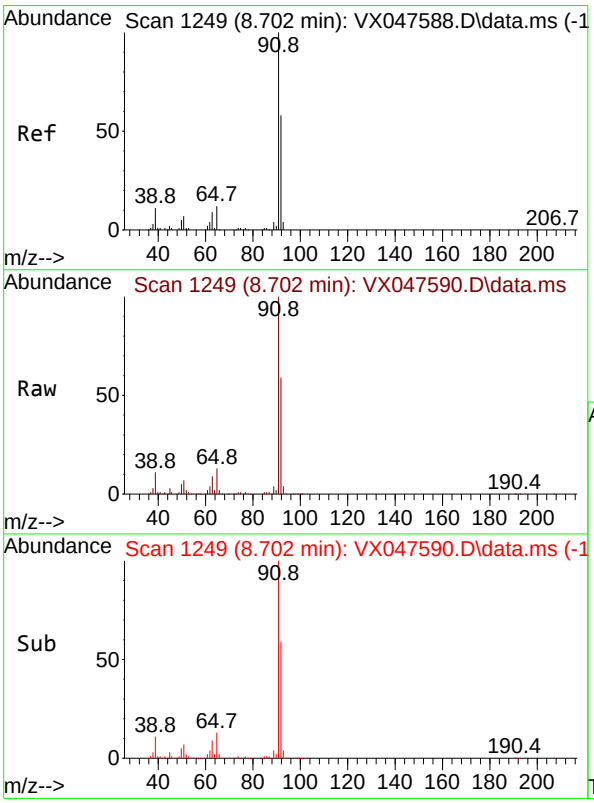
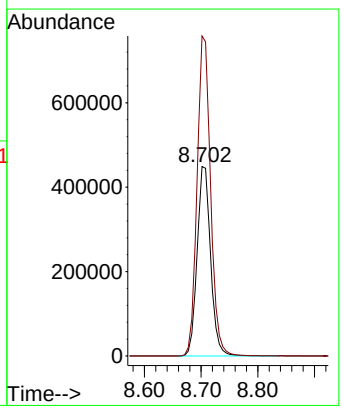
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

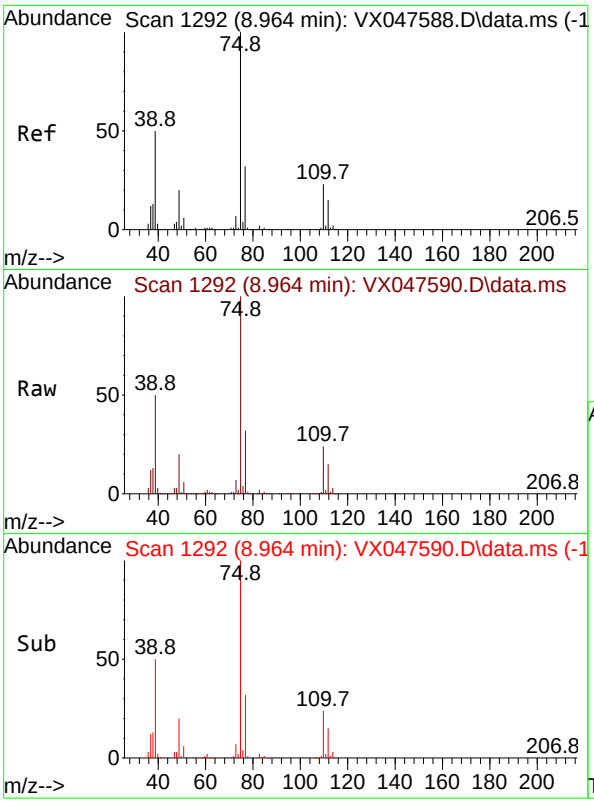


#52
Toluene
Concen: 146.712 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 92 Resp: 739332

Ion	Ratio	Lower	Upper
92	100		
91	169.5	137.1	205.7

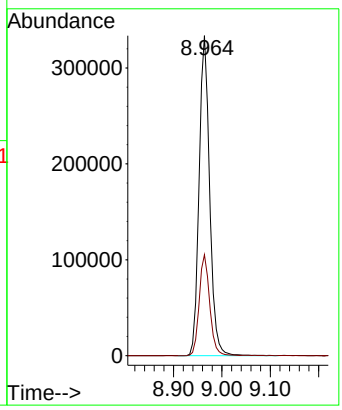




#53
t-1,3-Dichloropropene
Concen: 157.076 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 50391

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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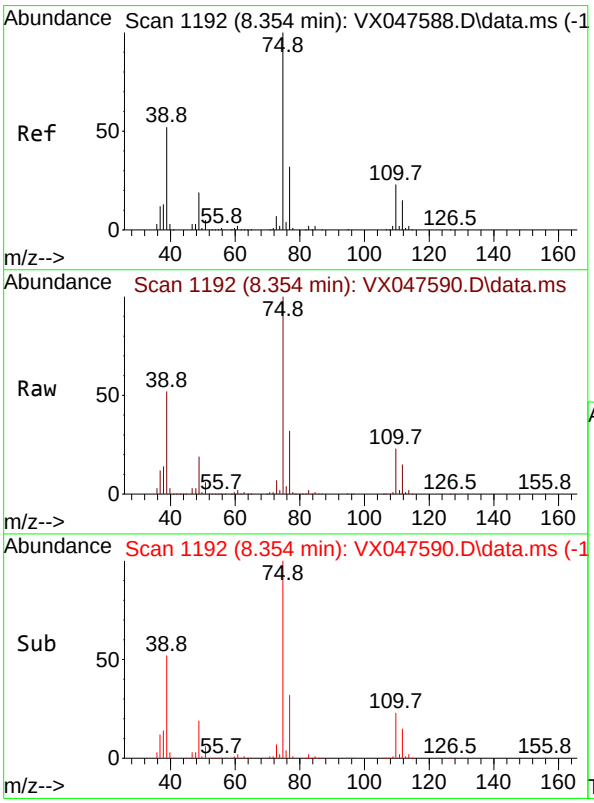
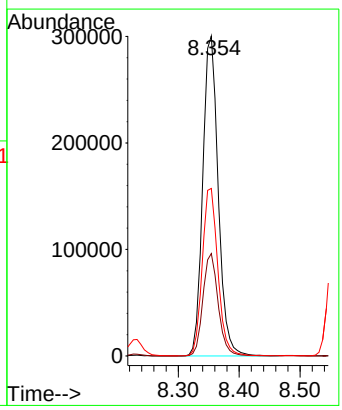
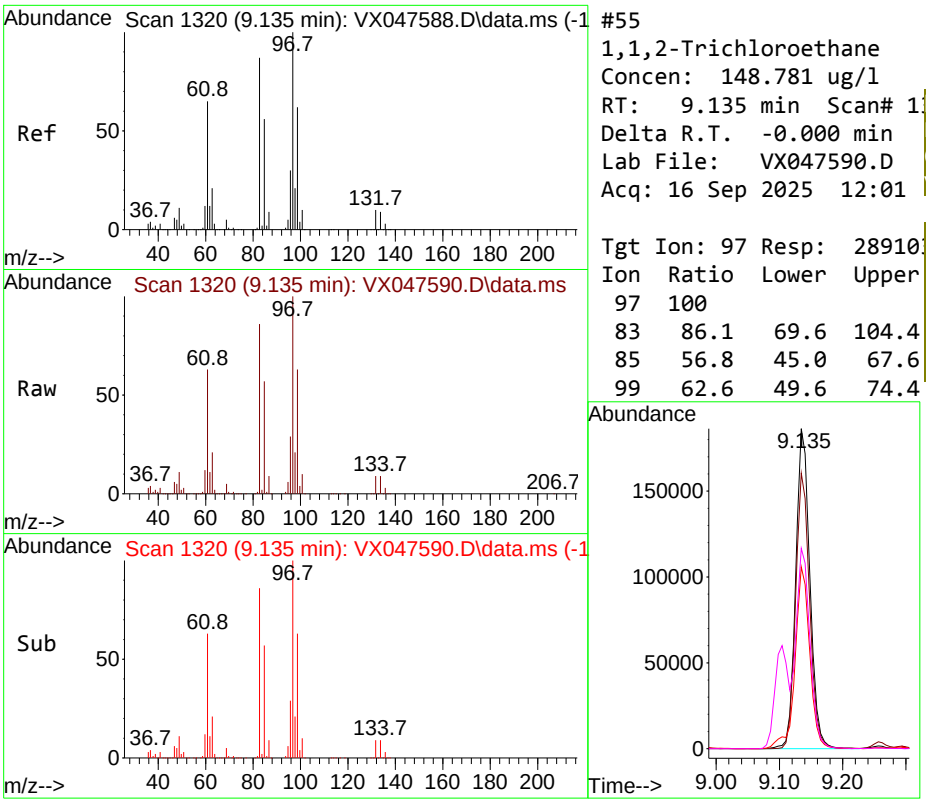


#54
cis-1,3-Dichloropropene
Concen: 154.732 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 530566

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.8	38.6
39	52.3	41.4	62.2





#55
1,1,2-Trichloroethane
Concen: 148.781 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 97 Resp: 28910

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	56.8	45.0	67.6
99	62.6	49.6	74.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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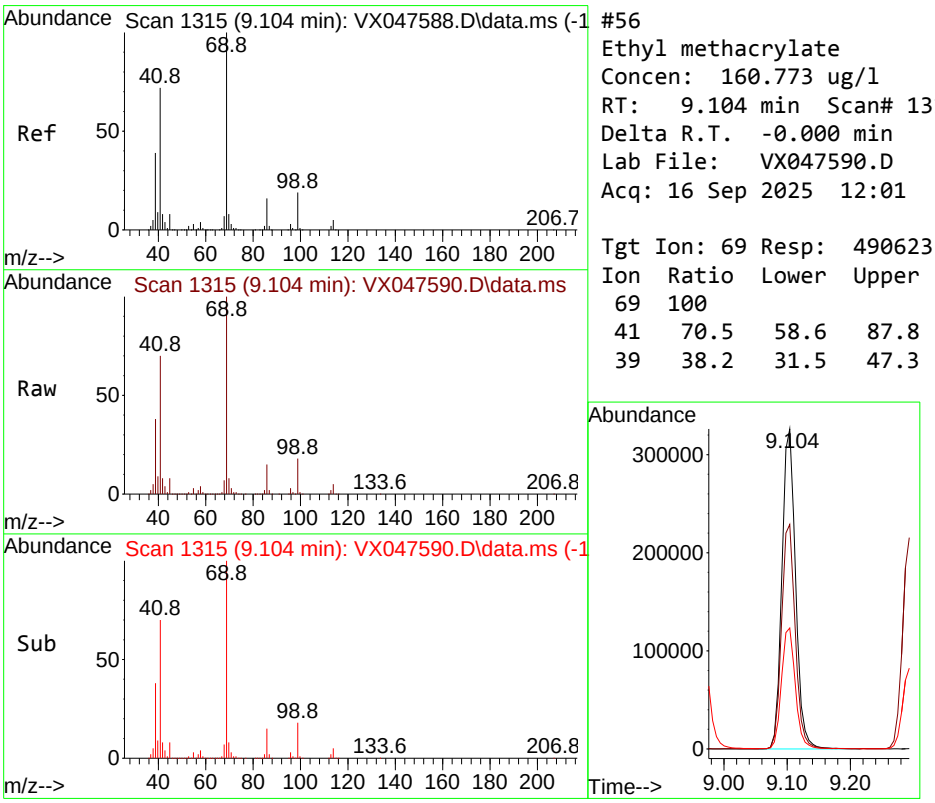
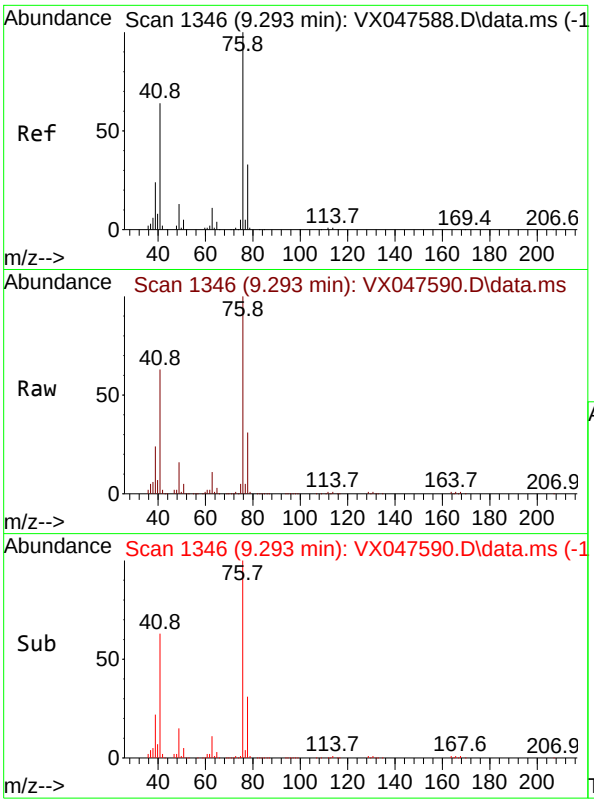


#56
Ethyl methacrylate
Concen: 160.773 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 69 Resp: 490623

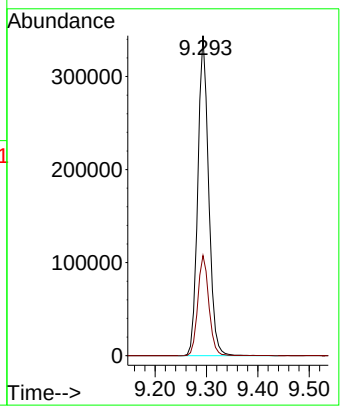
Ion	Ratio	Lower	Upper
69	100		
41	70.5	58.6	87.8
39	38.2	31.5	47.3



#57
1,3-Dichloropropane
Concen: 150.426 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 76 Resp: 50212

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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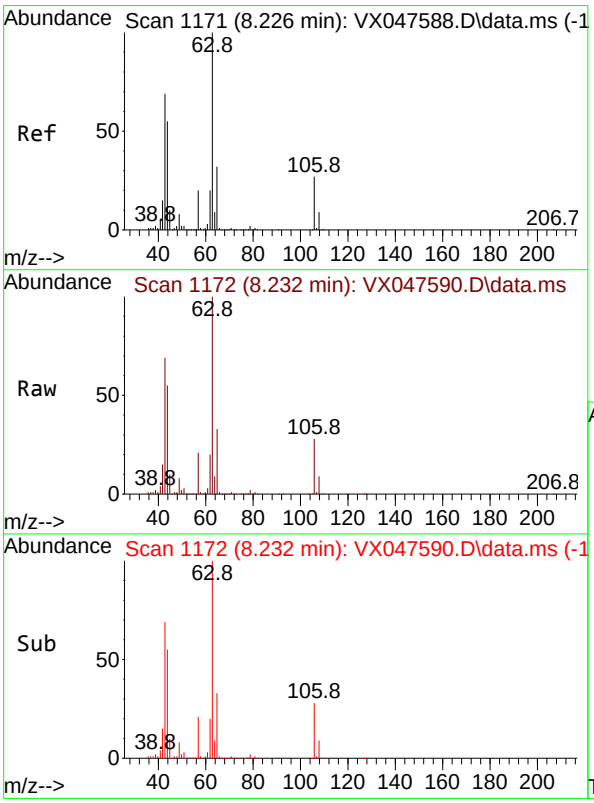
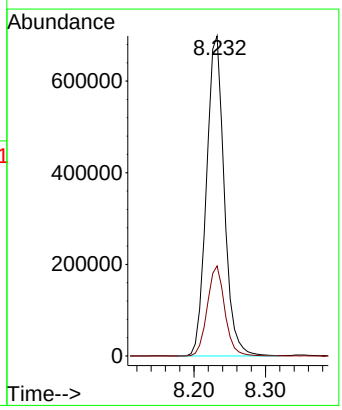
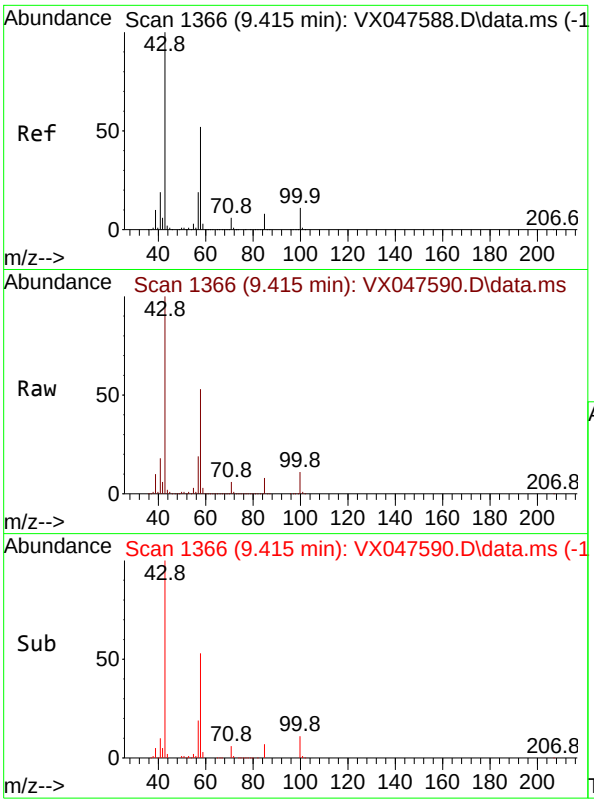


#58
2-Chloroethyl Vinyl ether
Concen: 749.661 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 1202206

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.9	32.9

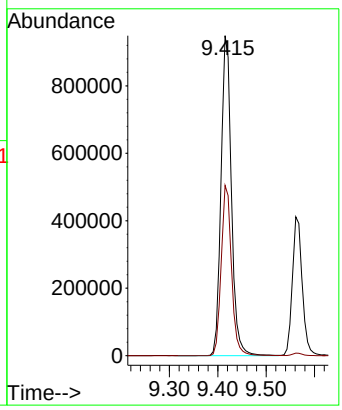




#59
2-Hexanone
Concen: 750.035 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 141241

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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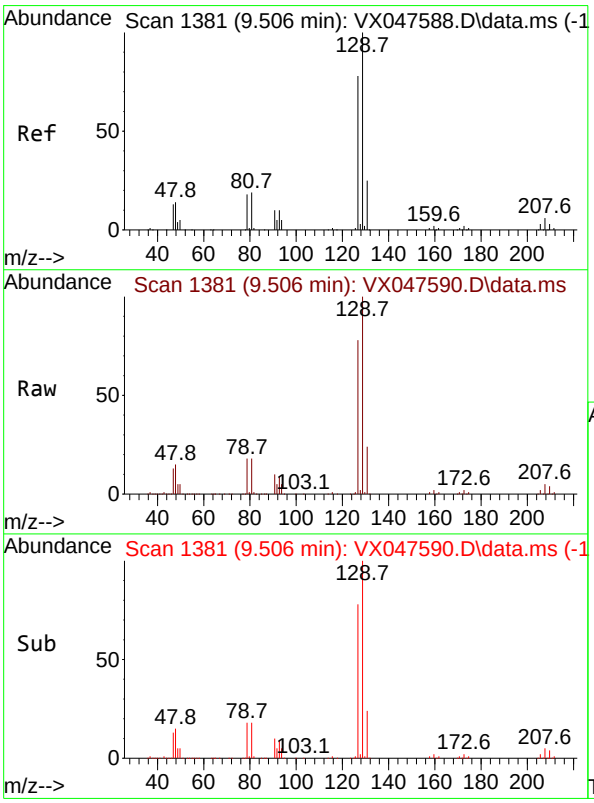
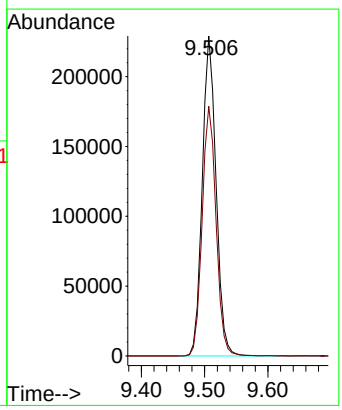
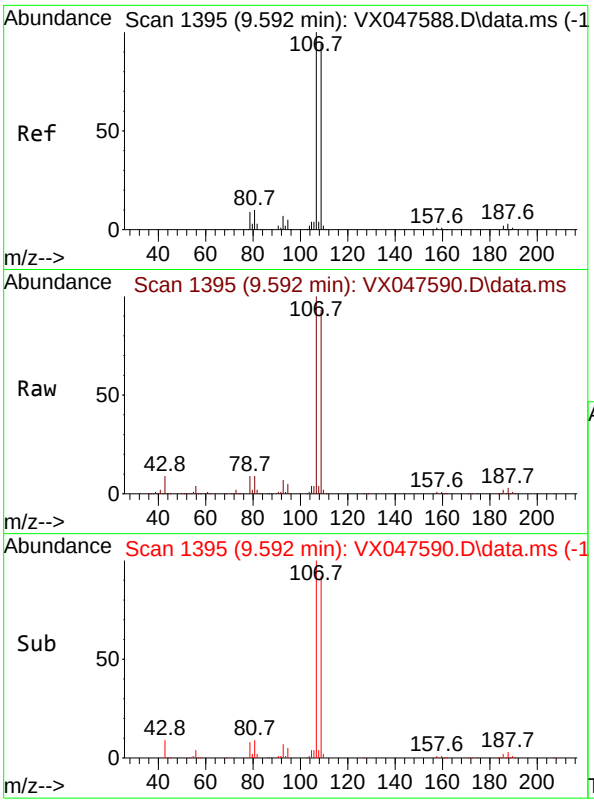


#60
Dibromochloromethane
Concen: 155.318 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:129 Resp: 347748

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.4	115.2

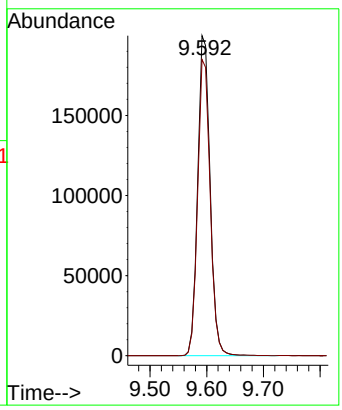




#61
1,2-Dibromoethane
Concen: 152.949 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:107 Resp: 30271

Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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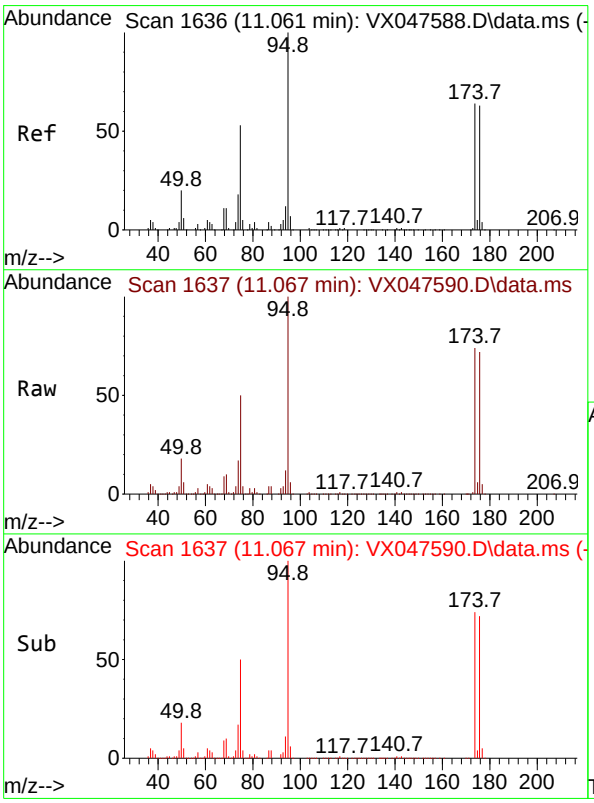
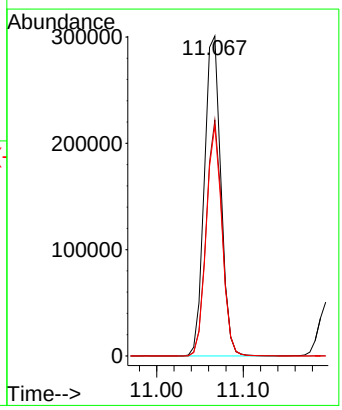
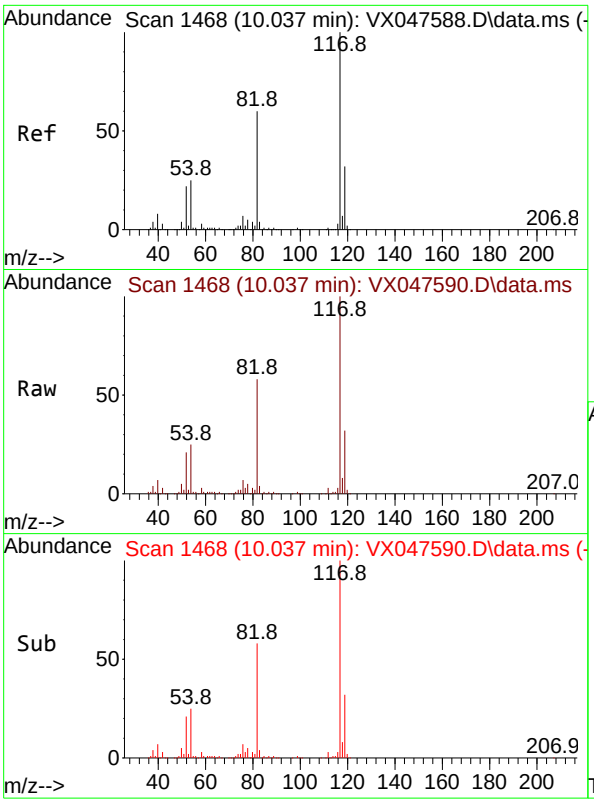


#62
4-Bromofluorobenzene
Concen: 165.020 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 95 Resp: 399386

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.6
176	68.5	0.0	138.4

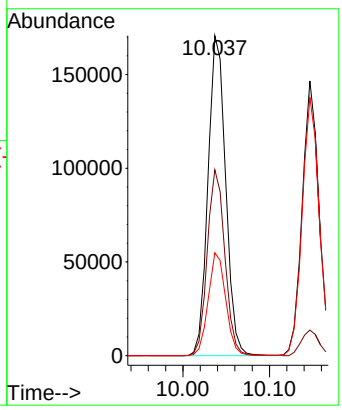




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 241818

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	32.2	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :John Carlone 09/17/2025
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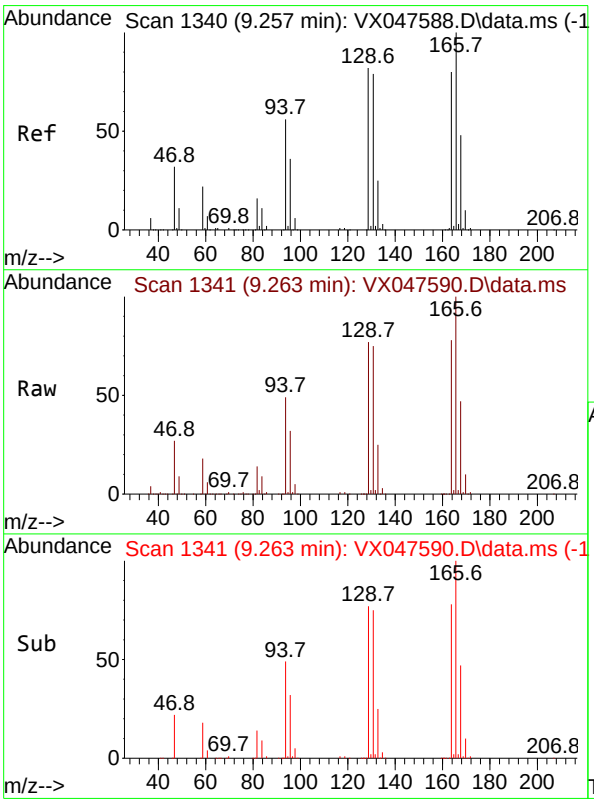
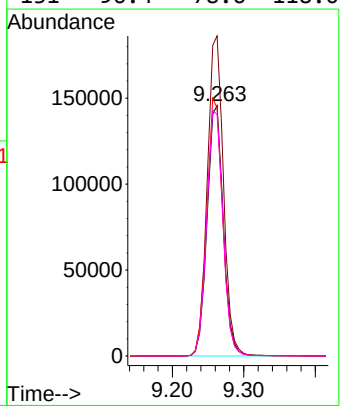
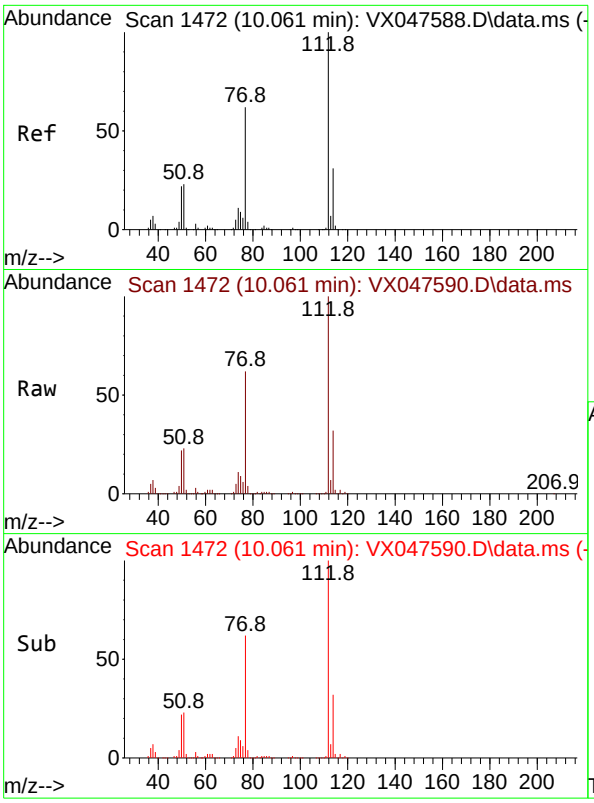


#64
Tetrachloroethene
Concen: 144.590 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:164 Resp: 227931

Ion	Ratio	Lower	Upper
164	100		
166	127.8	100.2	150.2
129	99.0	81.8	122.6
131	96.4	78.6	118.0

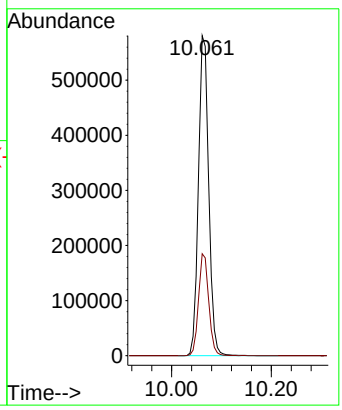




#65
Chlorobenzene
Concen: 150.763 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:112 Resp: 82823

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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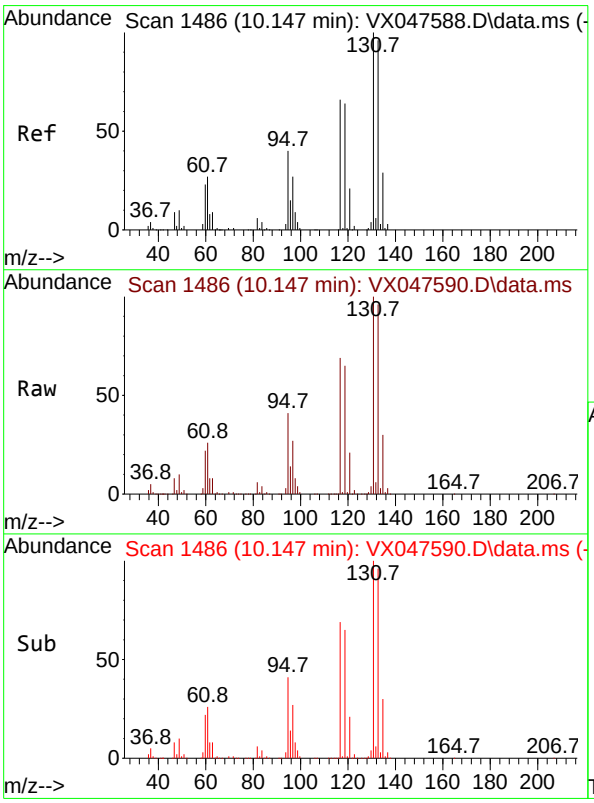
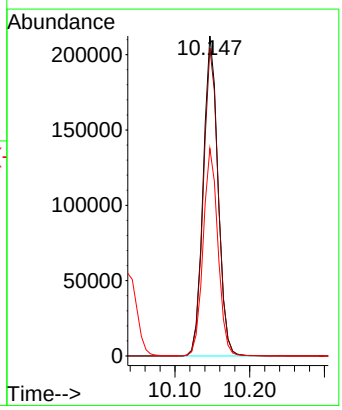
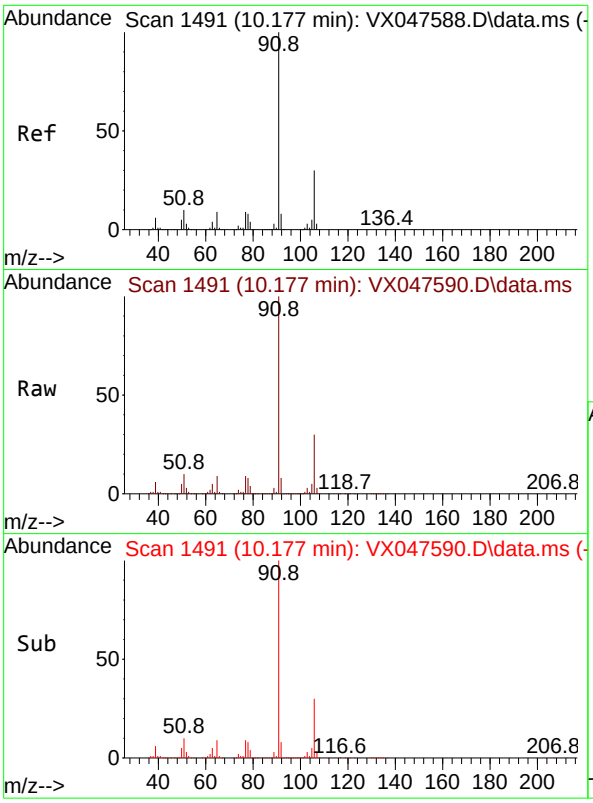


#66
1,1,1,2-Tetrachloroethane
Concen: 153.733 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:131 Resp: 291433

Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.3	142.0
119	64.8	32.0	96.0

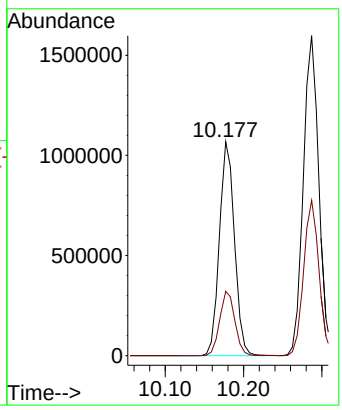




#67
Ethyl Benzene
Concen: 151.026 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 143155

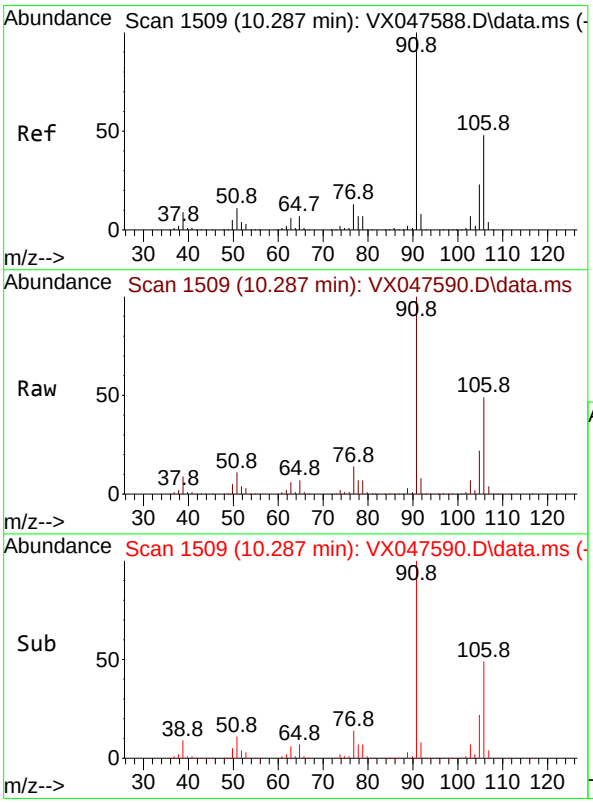
Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

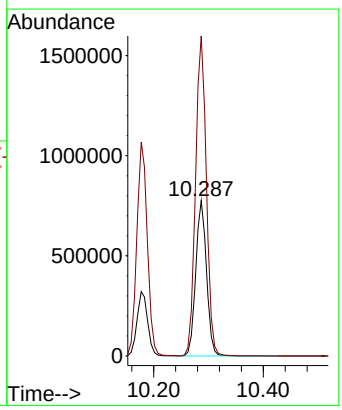
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

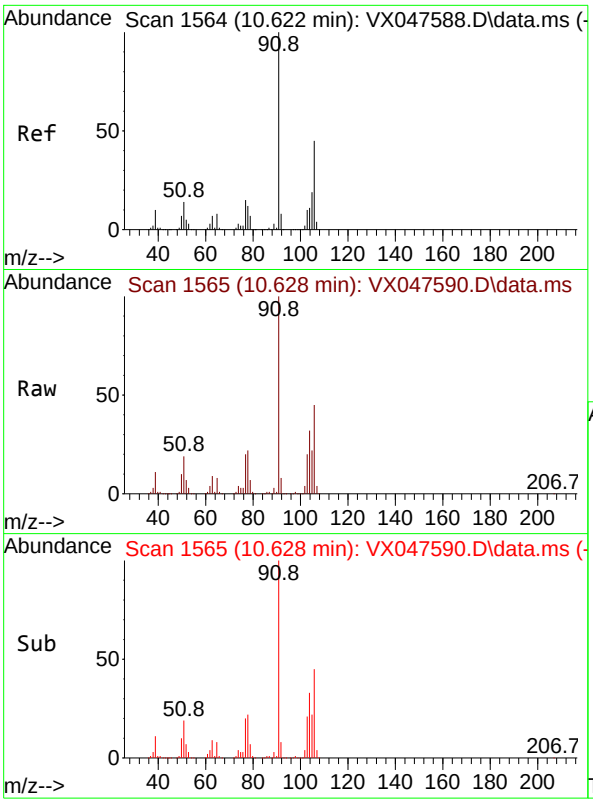


#68
m/p-Xylenes
Concen: 300.381 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:106 Resp: 1059776

Ion	Ratio	Lower	Upper
106	100		
91	208.0	167.8	251.8

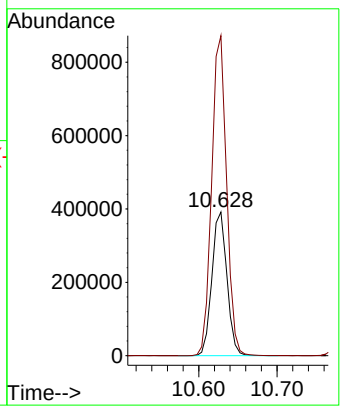




#69
o-Xylene
Concen: 152.920 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:106 Resp: 52184

Ion	Ratio	Lower	Upper
106	100		
91	220.7	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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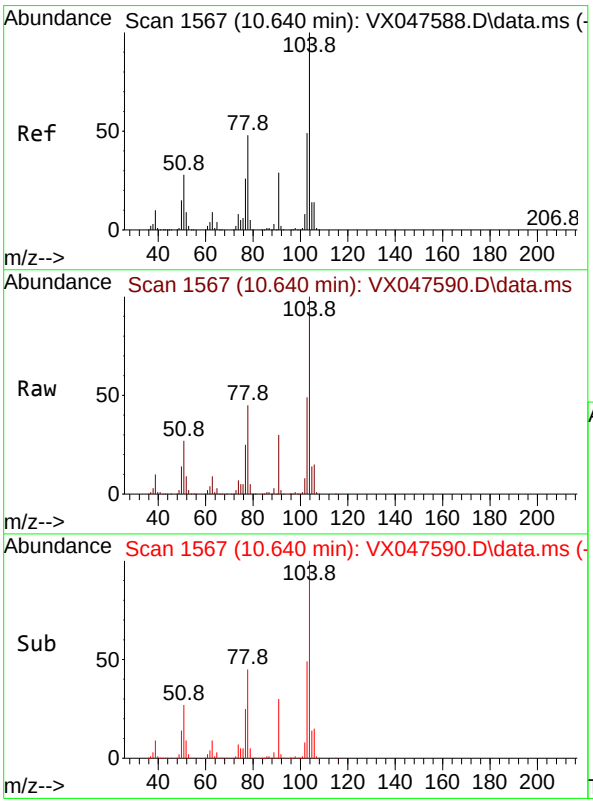
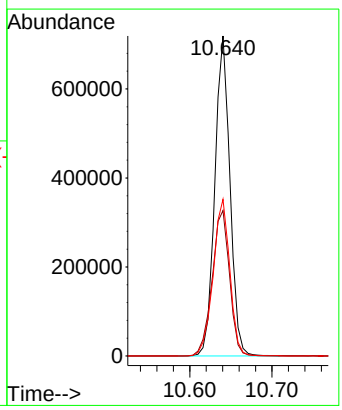
Supervised By :Mahesh Dadoda 09/18/2025

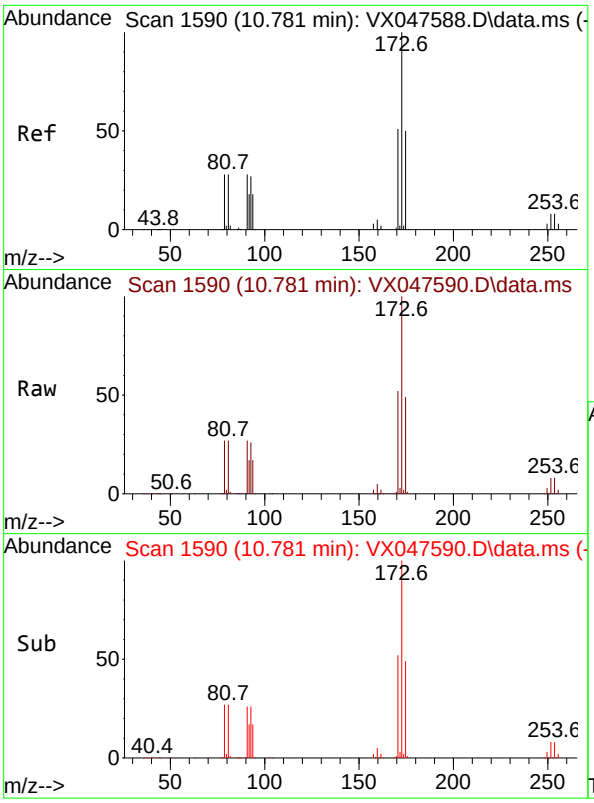


#70
Styrene
Concen: 153.449 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:104 Resp: 917532

Ion	Ratio	Lower	Upper
104	100		
78	52.4	43.1	64.7
103	54.0	43.1	64.7

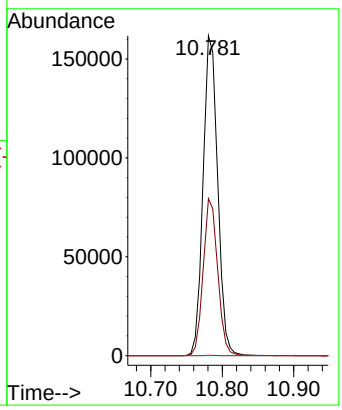




#71
Bromoform
Concen: 162.262 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:173 Resp: 22968

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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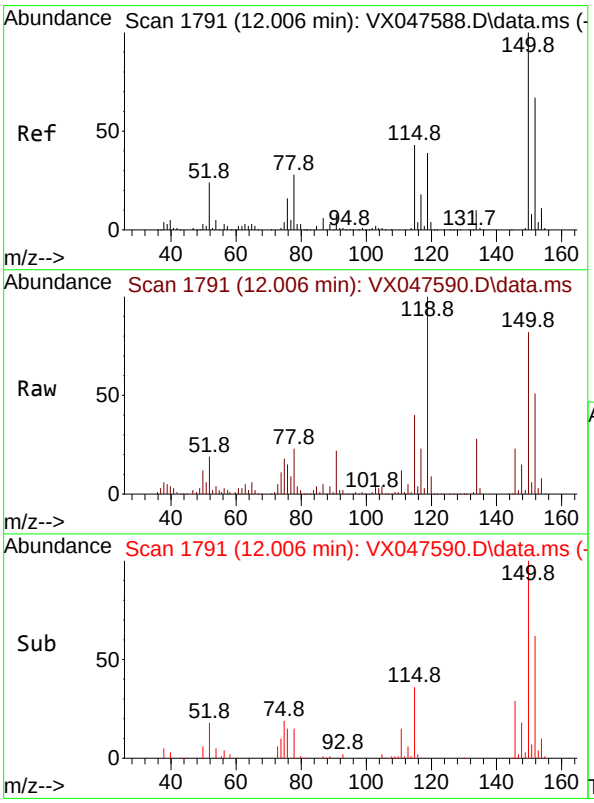
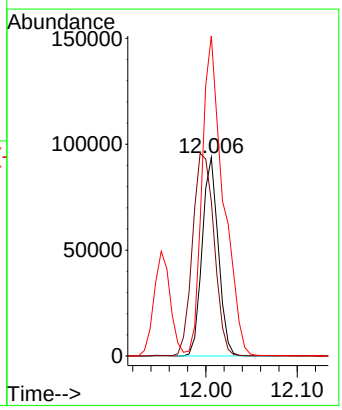
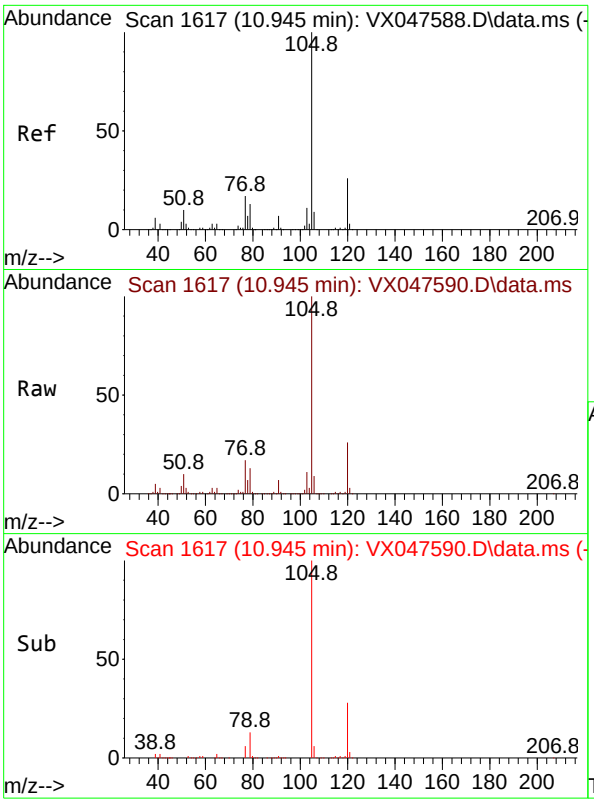


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:152 Resp: 114743

Ion	Ratio	Lower	Upper
152	100		
115	136.9	44.9	134.5#
150	212.9	0.0	352.0

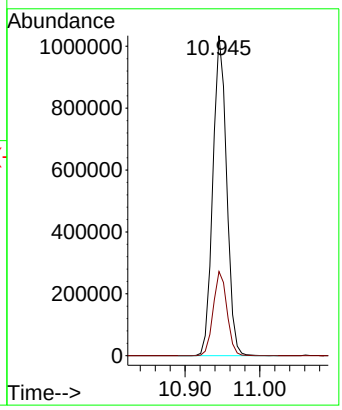




#73
Isopropylbenzene
Concen: 151.477 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 132140

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4



Instrument :
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ClientSampleId :
VSTDICC150

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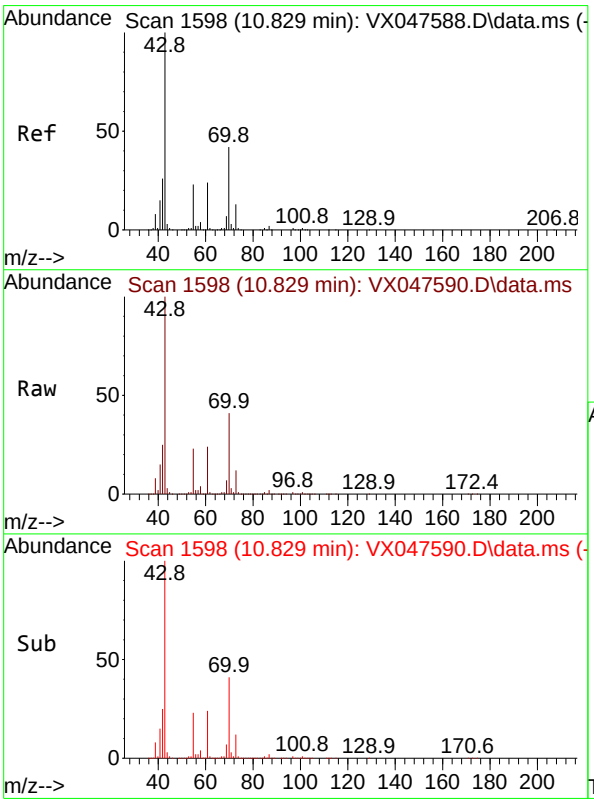
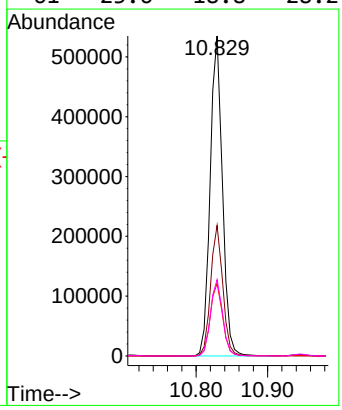
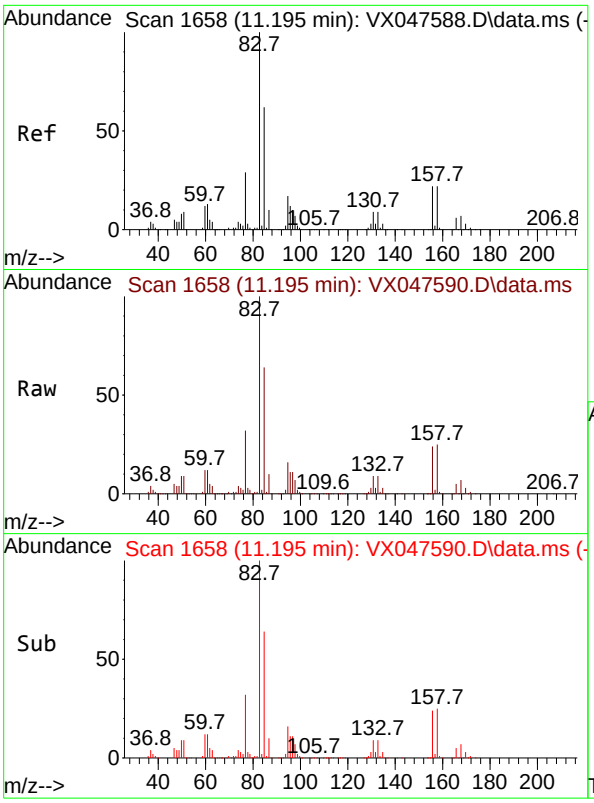


#74
N-amyl acetate
Concen: 160.099 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 636879

Ion	Ratio	Lower	Upper
43	100		
70	40.4	32.0	48.0
55	22.9	18.9	28.3
61	23.6	18.8	28.2

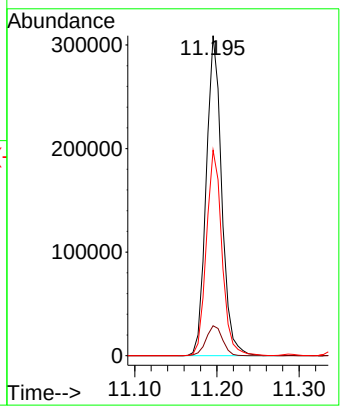




#75
1,1,2,2-Tetrachloroethane
Concen: 153.035 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 40390

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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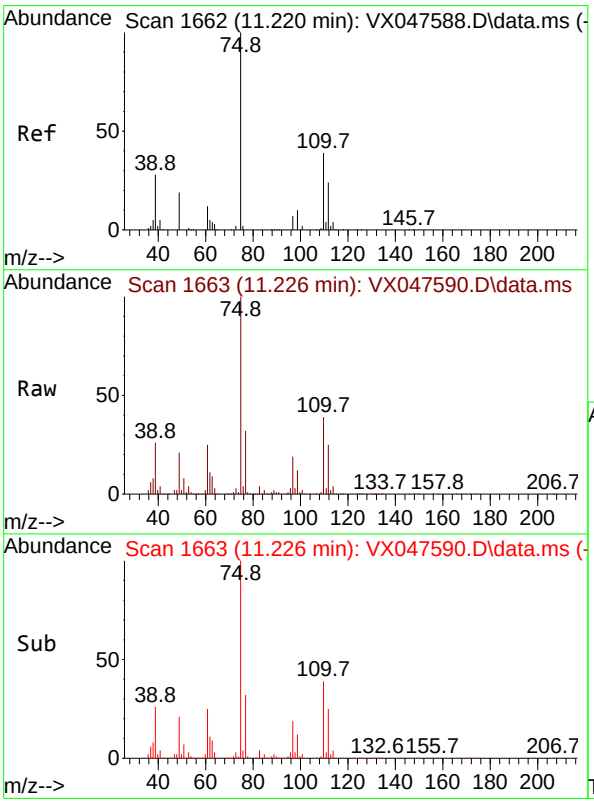
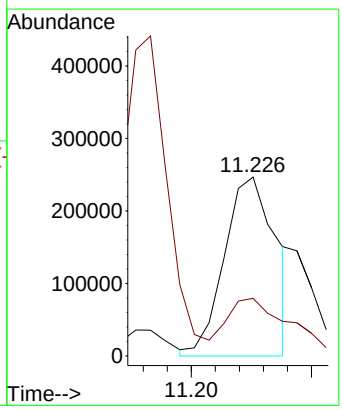
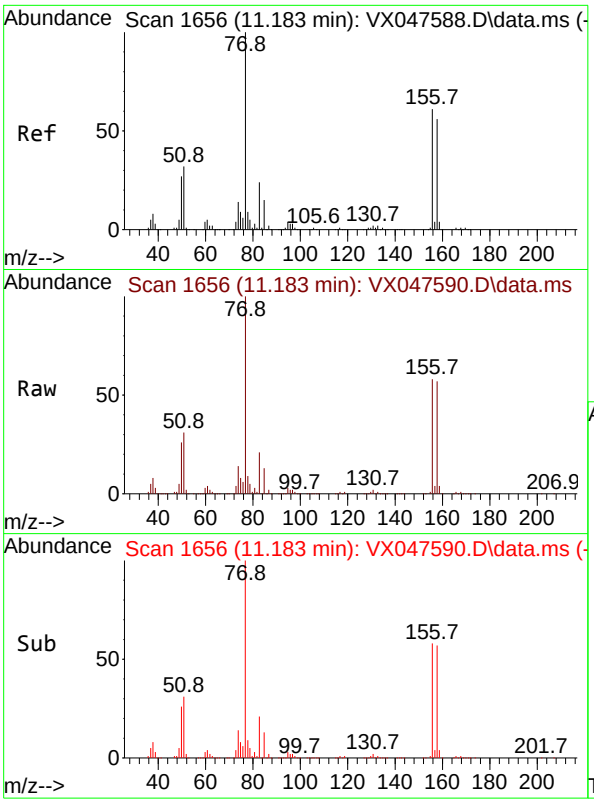


#76
1,2,3-Trichloropropane
Concen: 153.692 ug/l m
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 366171

Ion	Ratio	Lower	Upper
75	100		
77	39.7	18.8	56.4

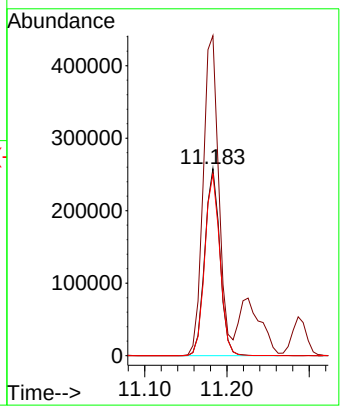




#77
Bromobenzene
Concen: 152.818 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:156 Resp: 32833

Ion	Ratio	Lower	Upper
156	100		
77	178.2	89.7	269.1
158	97.5	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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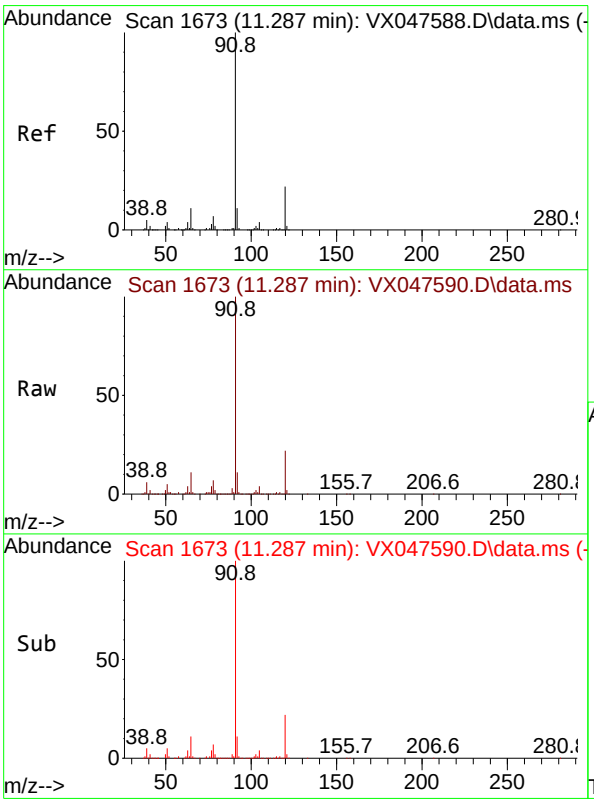
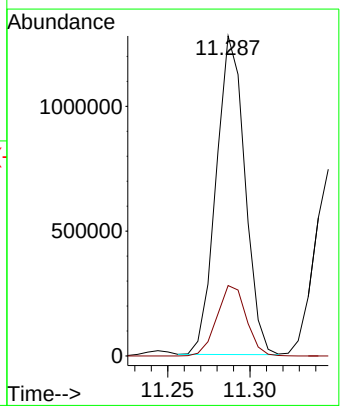
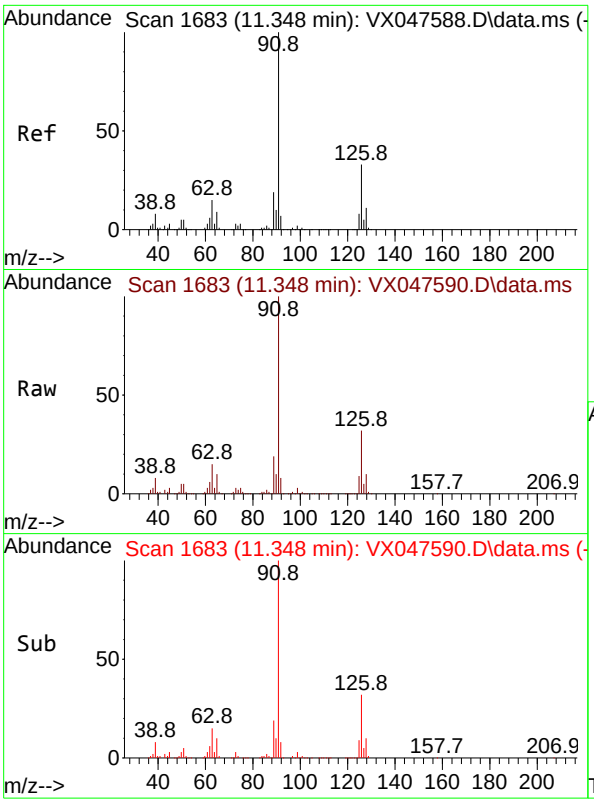


#78
n-propylbenzene
Concen: 150.337 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1550316

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.1

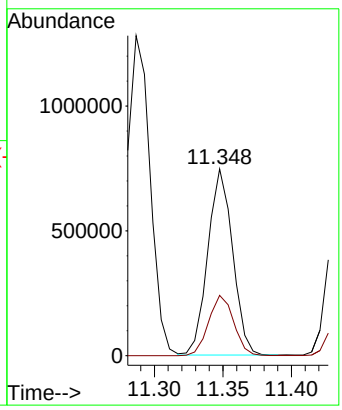




#79
2-Chlorotoluene
Concen: 148.781 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 93970

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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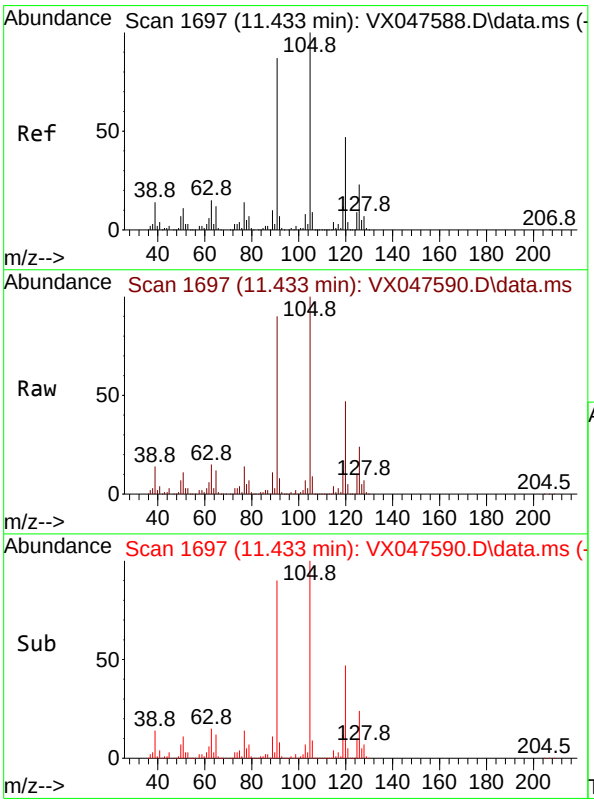
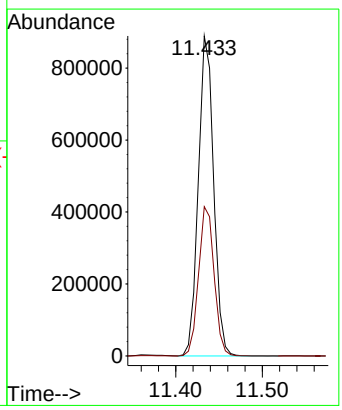
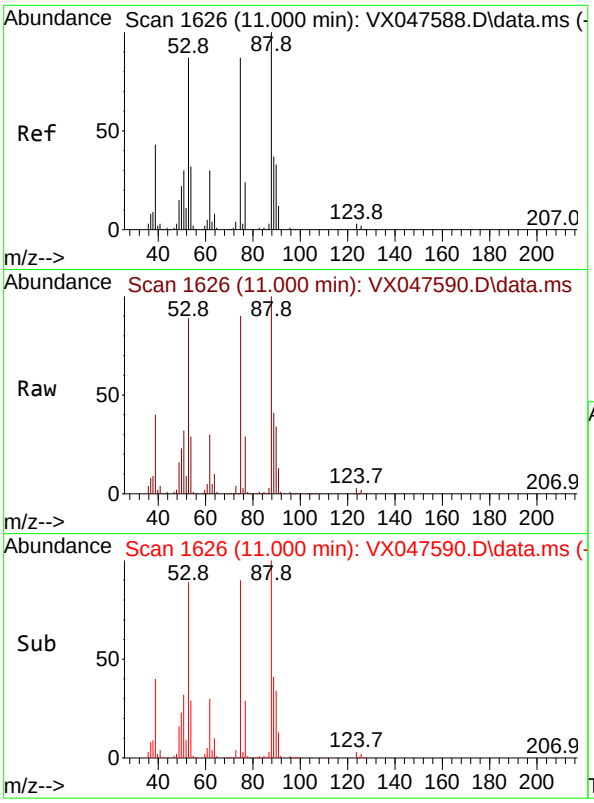


#80
1,3,5-Trimethylbenzene
Concen: 152.306 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1091593

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 160.176 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 14592

Ion	Ratio	Lower	Upper
75	100		
53	100.8	83.4	125.2
89	46.3	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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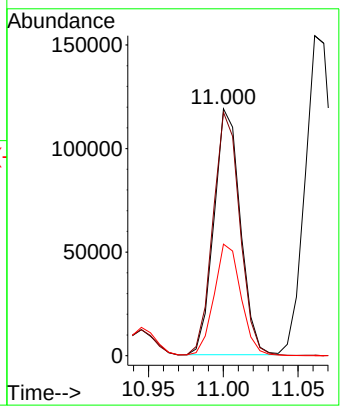
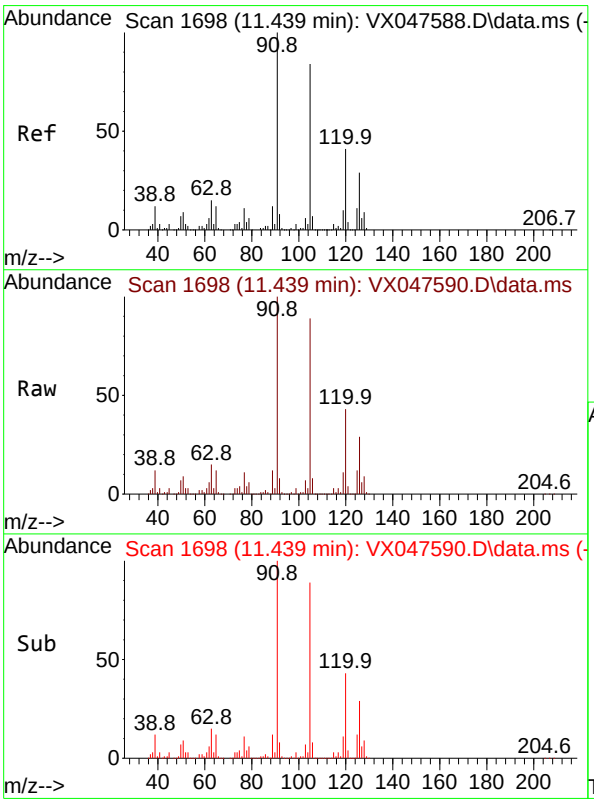
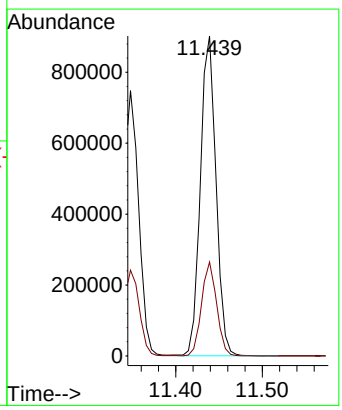


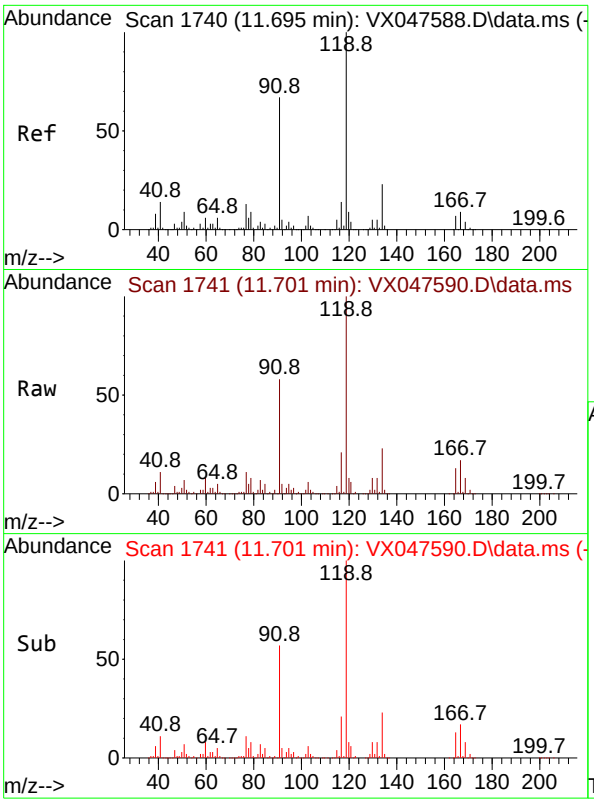


#82
4-Chlorotoluene
Concen: 151.112 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1127233

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6

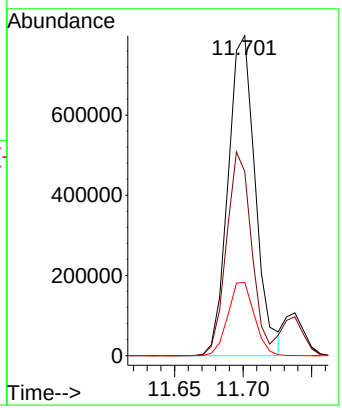




#83
tert-Butylbenzene
Concen: 150.819 ug/l
RT: 11.701 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:119 Resp: 110653

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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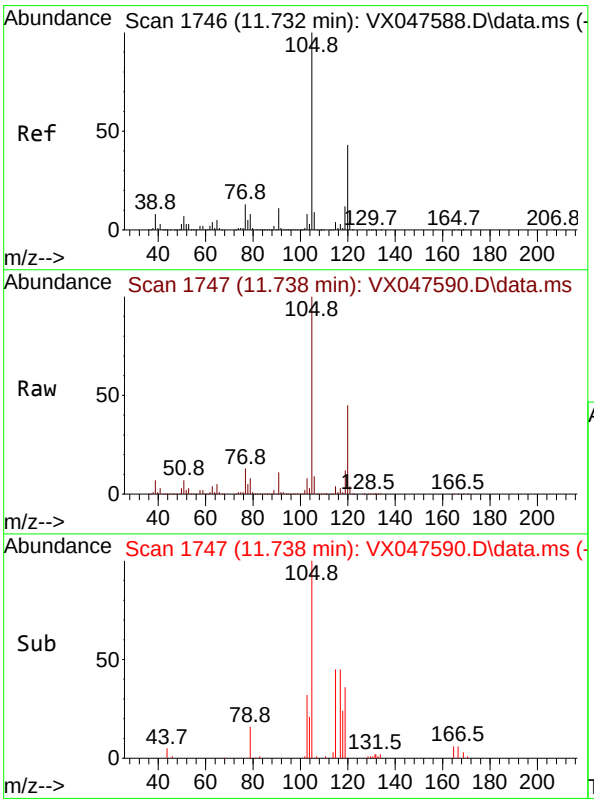
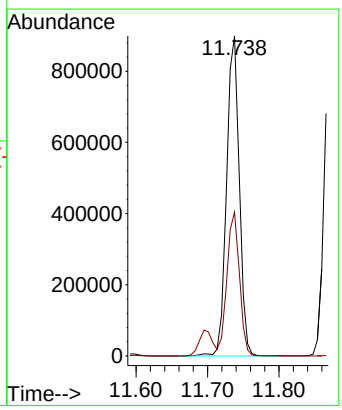
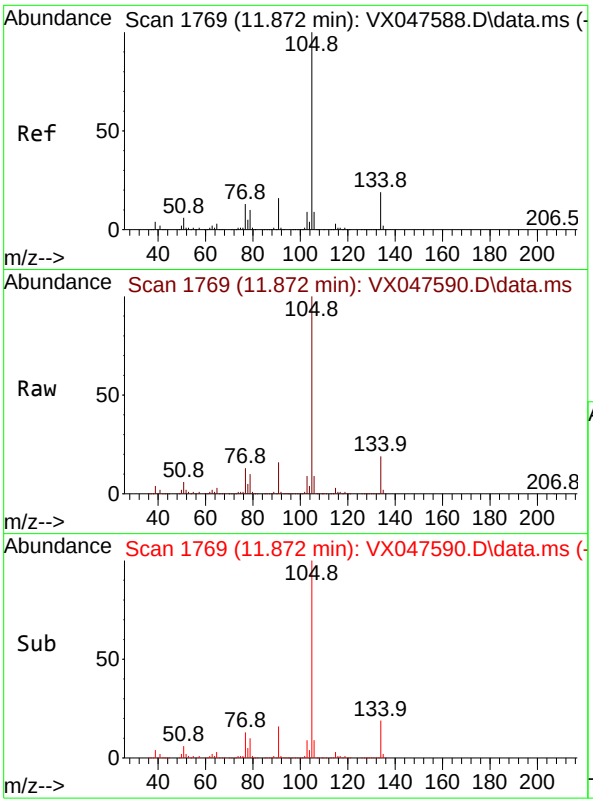


#84
1,2,4-Trimethylbenzene
Concen: 152.336 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1106914

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.1	66.1

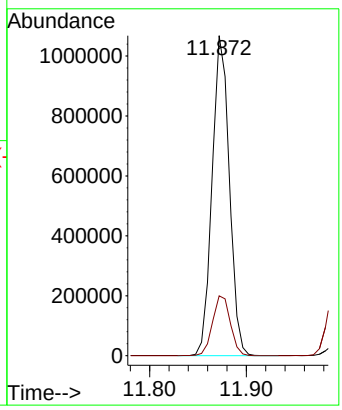




#85
sec-Butylbenzene
Concen: 151.448 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 131981

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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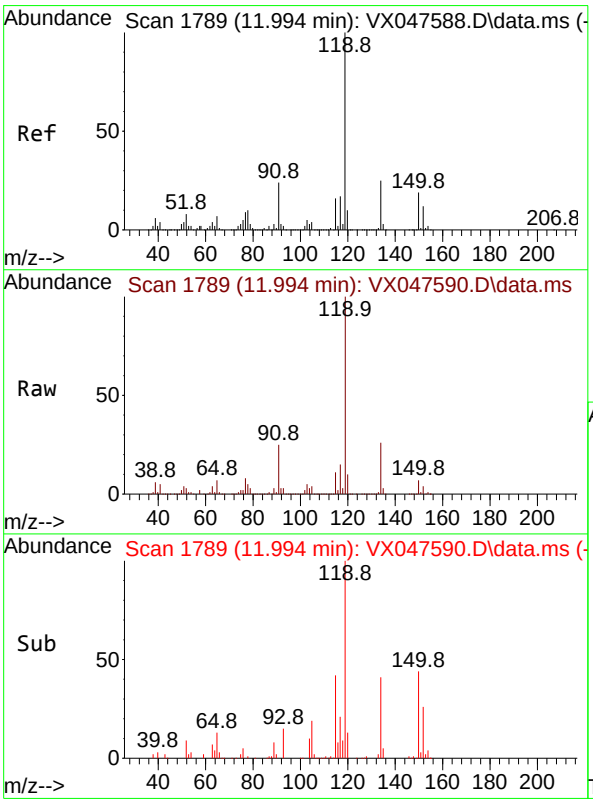
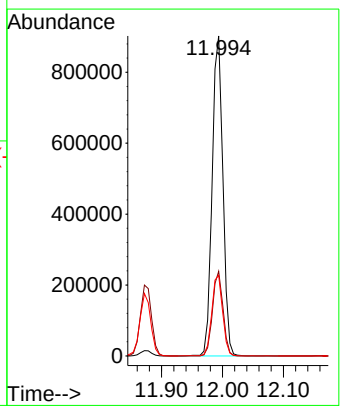
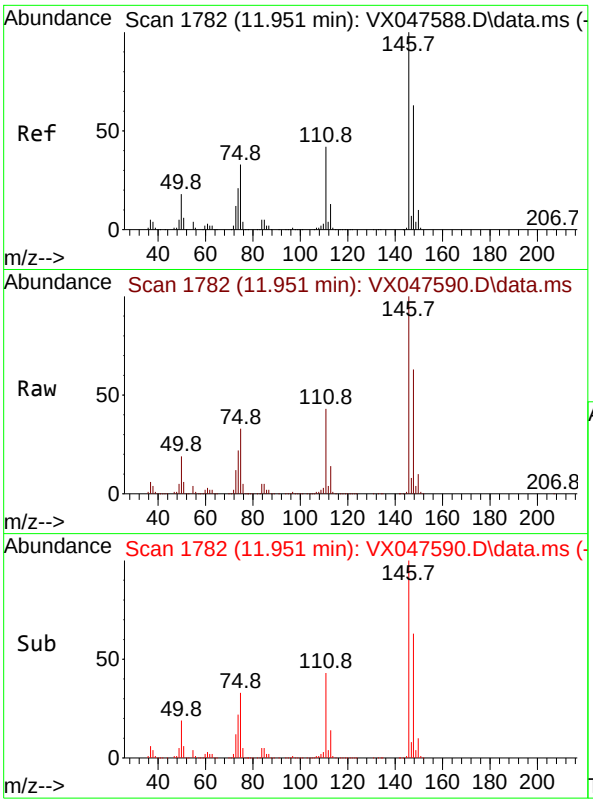


#86
p-Isopropyltoluene
Concen: 149.530 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:119 Resp: 1103210

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.3	12.6	37.6

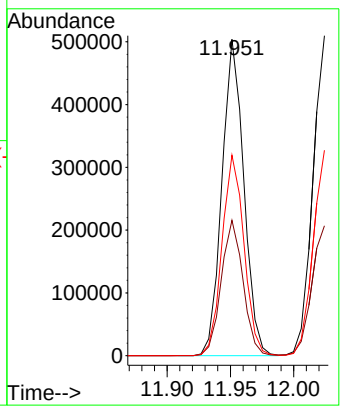




#87
1,3-Dichlorobenzene
Concen: 151.633 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 60512

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.5	64.5
148	63.8	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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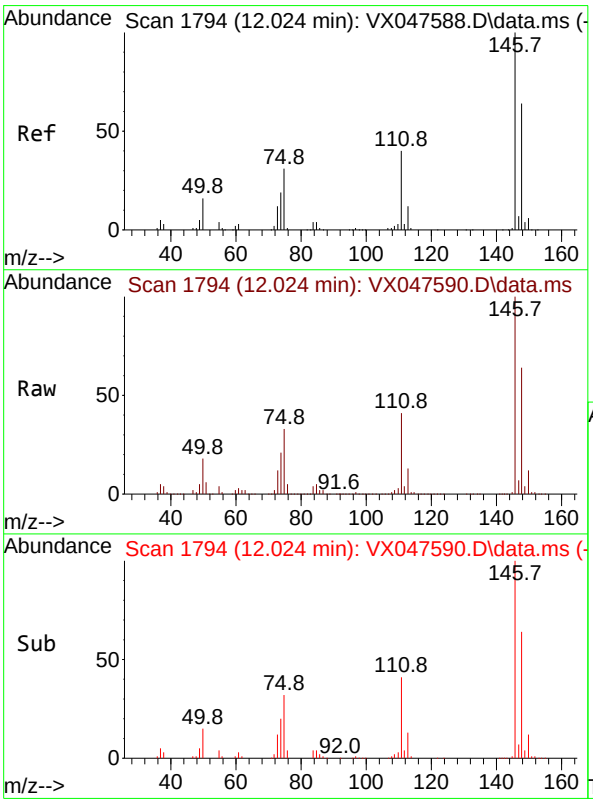
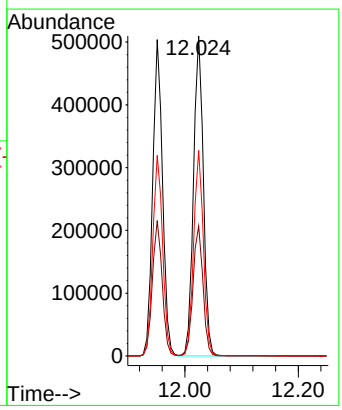
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

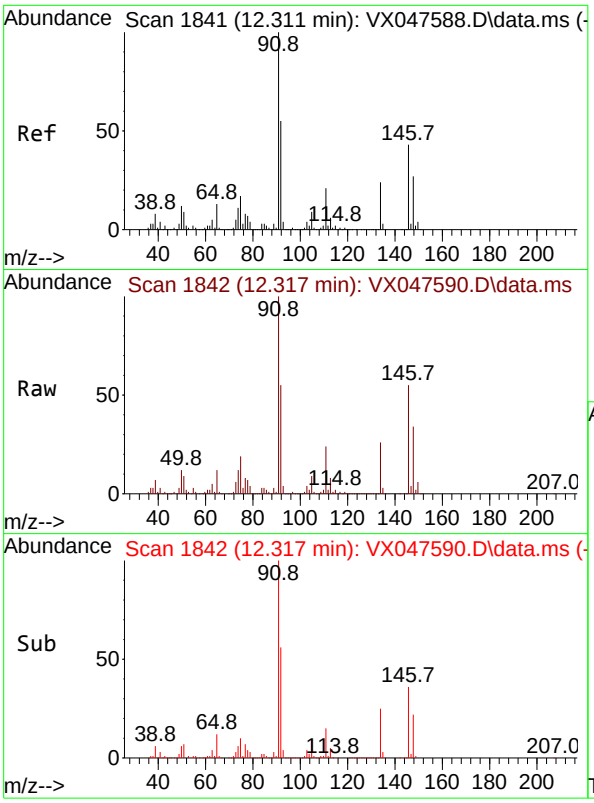


#88
1,4-Dichlorobenzene
Concen: 149.814 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 613617

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	63.2	31.7	95.1

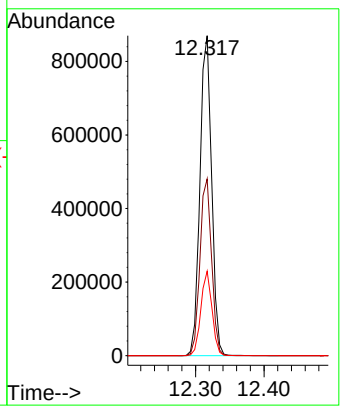




#89
n-Butylbenzene
Concen: 151.222 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 103235

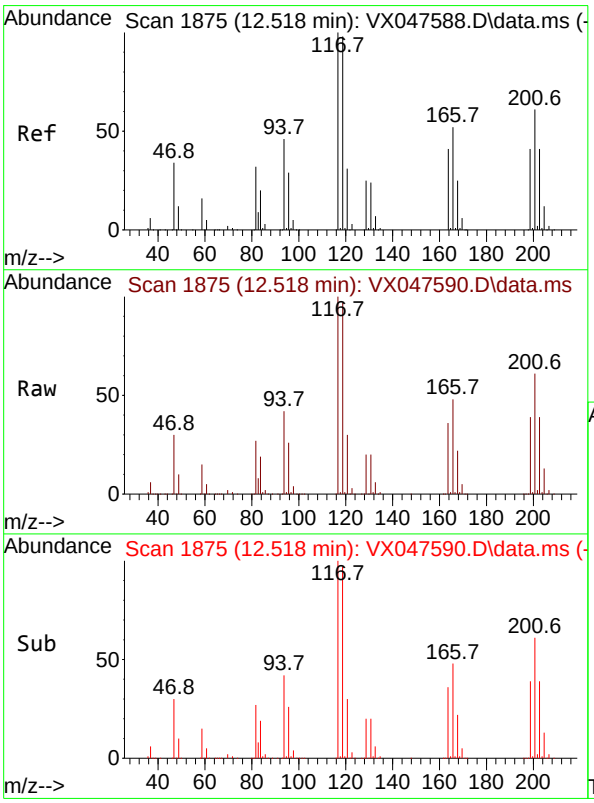
Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

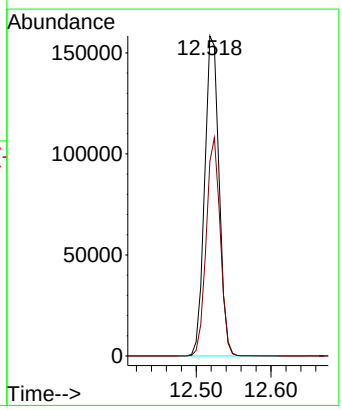
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

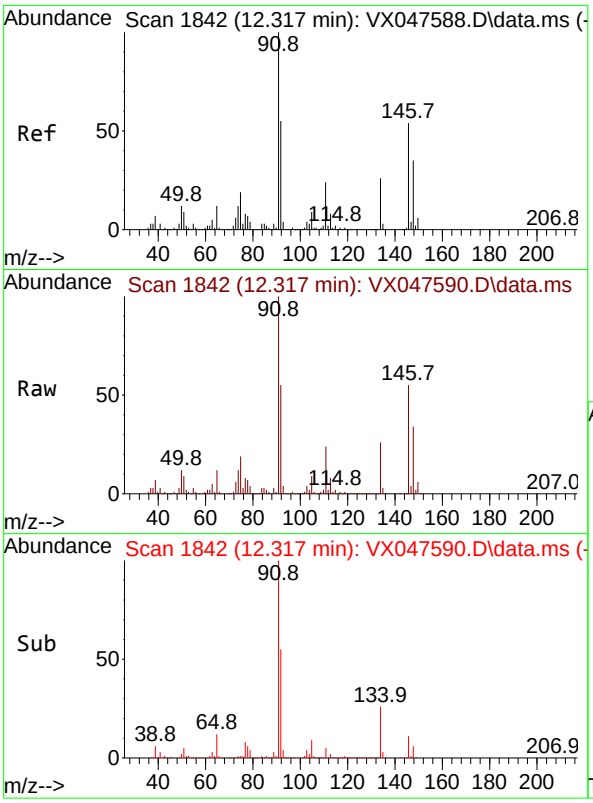


#90
Hexachloroethane
Concen: 163.258 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 211472

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5

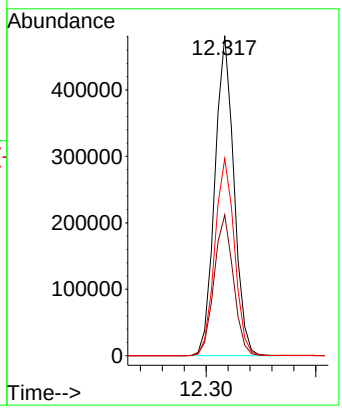




#91
1,2-Dichlorobenzene
Concen: 153.227 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 58256

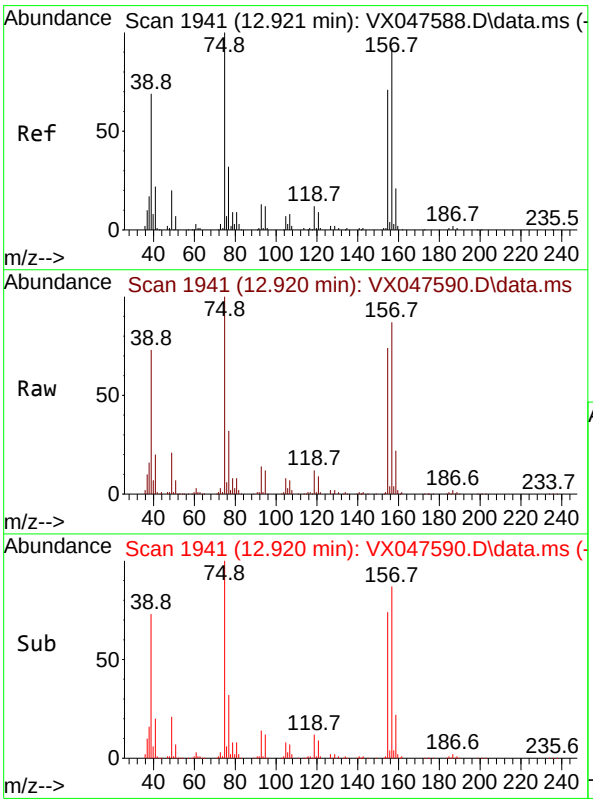
Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.2	66.6
148	63.5	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

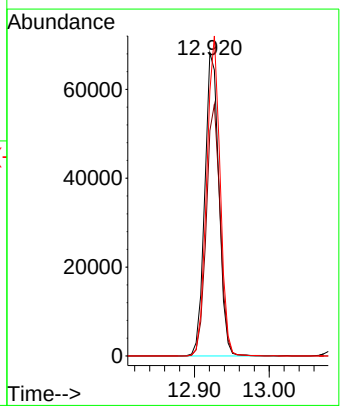
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

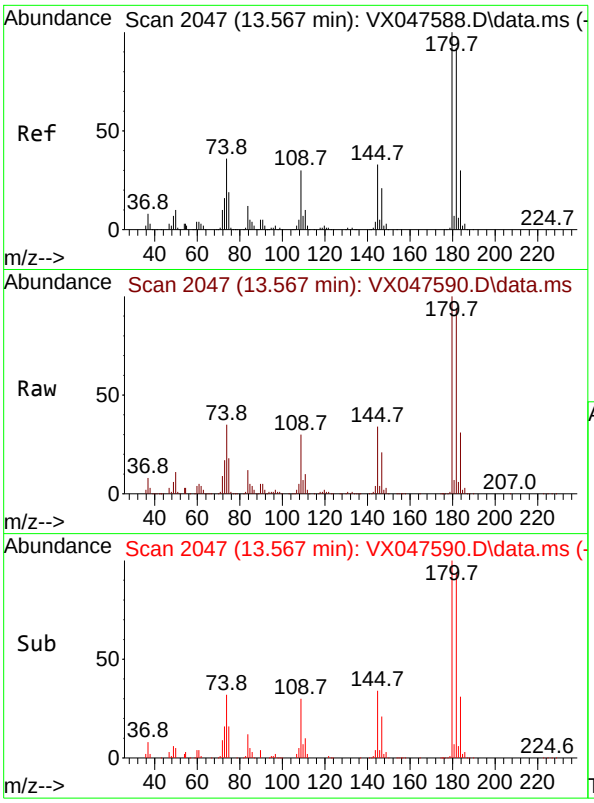


#92
1,2-Dibromo-3-Chloropropane
Concen: 167.332 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 89415

Ion	Ratio	Lower	Upper
75	100		
155	81.3	37.7	113.1
157	100.6	49.8	149.4

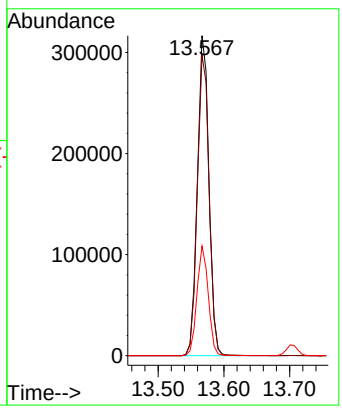




#93
1,2,4-Trichlorobenzene
Concen: 156.884 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:180 Resp: 38765

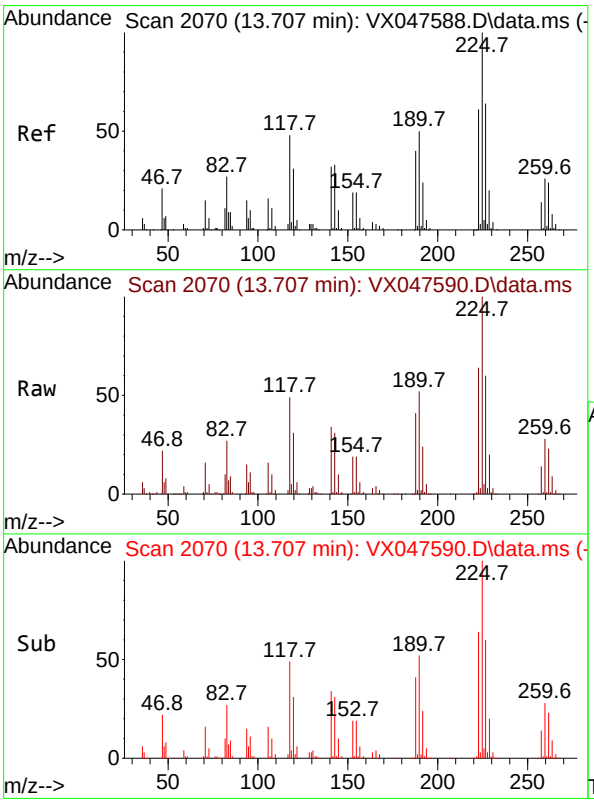
Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	33.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

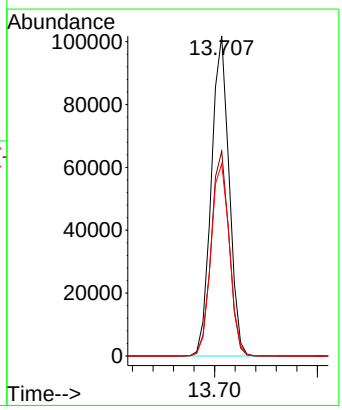
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

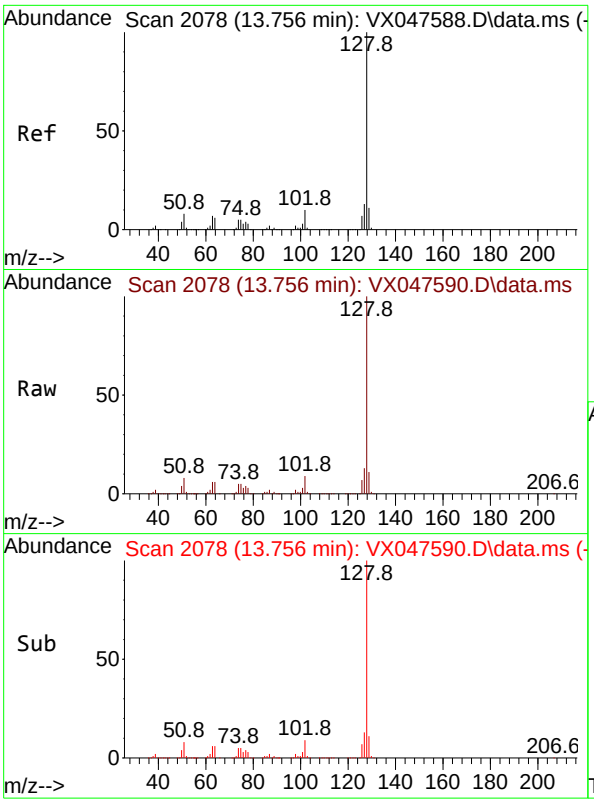


#94
Hexachlorobutadiene
Concen: 145.110 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:225 Resp: 121791

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.7	95.1
227	62.8	32.0	96.0

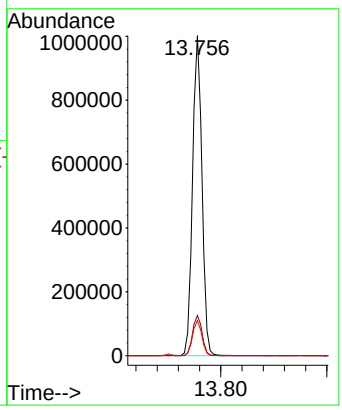




#95
Naphthalene
Concen: 163.388 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:128 Resp: 122936

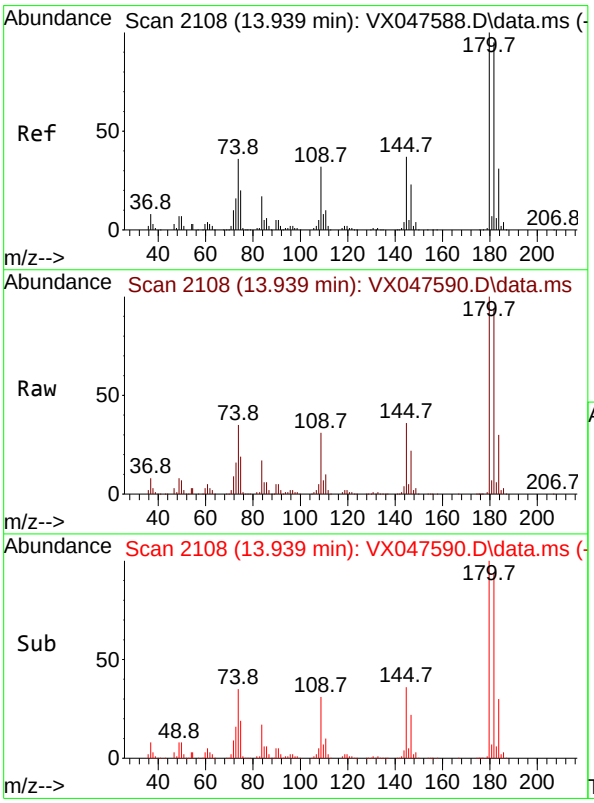
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

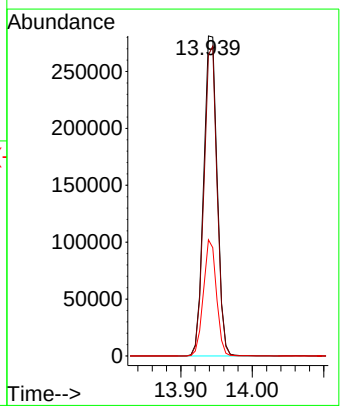
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 160.704 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:180 Resp: 369382

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.6	142.8
145	34.9	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	186484	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	331837	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288660	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	139252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	135209	45.550	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 91.100%			
35) Dibromofluoromethane	5.367	113	101390	45.559	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.120%			
50) Toluene-d8	8.634	98	357393	46.411	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.820%			
62) 4-Bromofluorobenzene	11.061	95	135957	46.520	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	86110	44.592	ug/l	94
3) Chloromethane	1.300	50	110935	43.710	ug/l	99
4) Vinyl Chloride	1.380	62	113742	45.783	ug/l	99
5) Bromomethane	1.617	94	76388	48.489	ug/l	99
6) Chloroethane	1.697	64	77337	46.575	ug/l	99
7) Trichlorofluoromethane	1.892	101	173647	47.074	ug/l	98
8) Diethyl Ether	2.136	74	70459	46.693	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	104663	48.524	ug/l	99
10) Methyl Iodide	2.453	142	155450	46.210	ug/l	99
11) Tert butyl alcohol	2.940	59	84722	256.271	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104302	47.076	ug/l	98
13) Acrolein	2.233	56	77645	254.867	ug/l	99
14) Allyl chloride	2.666	41	213704	46.742	ug/l	99
15) Acrylonitrile	3.056	53	310505	253.567	ug/l	99
16) Acetone	2.373	43	316217	245.006	ug/l	97
17) Carbon Disulfide	2.514	76	272741	44.966	ug/l	97
18) Methyl Acetate	2.697	43	158480	55.175	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	392574	48.538	ug/l	100
20) Methylene Chloride	2.788	84	125669	46.000	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	111418	46.709	ug/l	99
22) Diisopropyl ether	3.745	45	426854	48.174	ug/l #	83
23) Vinyl Acetate	3.709	43	1741267	245.539	ug/l	99
24) 1,1-Dichloroethane	3.599	63	226249	48.041	ug/l	99
25) 2-Butanone	4.532	43	408273	253.598	ug/l	97
26) 2,2-Dichloropropane	4.458	77	193760	49.494	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	142635	48.826	ug/l	99
28) Bromochloromethane	4.879	49	95782	46.586	ug/l	99
29) Tetrahydrofuran	4.983	42	245392	253.375	ug/l	99
30) Chloroform	5.074	83	231954	48.739	ug/l	99
31) Cyclohexane	5.458	56	180430	45.999	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	197711	48.978	ug/l	100
36) 1,1-Dichloropropene	5.678	75	151745	46.663	ug/l	99
37) Ethyl Acetate	4.690	43	171454	49.241	ug/l	98
38) Carbon Tetrachloride	5.659	117	165834	46.935	ug/l	95
39) Methylcyclohexane	7.360	83	179392	48.597	ug/l	98
40) Benzene	6.019	78	467748	47.357	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	90758	50.490	ug/l		98
42) 1,2-Dichloroethane	6.068	62	176131	46.867	ug/l		100
43) Isopropyl Acetate	6.318	43	280595	49.136	ug/l		100
44) Trichloroethene	7.104	130	114708	48.037	ug/l		98
45) 1,2-Dichloropropane	7.409	63	121532	48.053	ug/l		98
46) Dibromomethane	7.562	93	88297	47.976	ug/l		98
47) Bromodichloromethane	7.799	83	185219	48.769	ug/l		96
48) Methyl methacrylate	7.671	41	141532	49.757	ug/l		99
49) 1,4-Dioxane	7.641	88	31320	1089.520	ug/l		98
51) 4-Methyl-2-Pentanone	8.555	43	809759	255.752	ug/l		100
52) Toluene	8.702	92	292879	48.130	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	191863	49.527	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	203954	49.257	ug/l		97
55) 1,1,2-Trichloroethane	9.134	97	112094	47.772	ug/l		98
56) Ethyl methacrylate	9.098	69	189741	51.490	ug/l		99
57) 1,3-Dichloropropane	9.293	76	197079	48.894	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	394205	225.562	ug/l		99
59) 2-Hexanone	9.415	43	575599	253.126	ug/l		99
60) Dibromochloromethane	9.506	129	134704	49.824	ug/l		99
61) 1,2-Dibromoethane	9.592	107	117817	49.297	ug/l		99
64) Tetrachloroethene	9.256	164	90881	48.296	ug/l		98
65) Chlorobenzene	10.061	112	318372	48.549	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	110416	48.794	ug/l		98
67) Ethyl Benzene	10.177	91	563634	49.813	ug/l		99
68) m/p-Xylenes	10.287	106	416757	98.956	ug/l		99
69) o-Xylene	10.622	106	204323	50.159	ug/l		99
70) Styrene	10.640	104	353567	49.536	ug/l		99
71) Bromoform	10.780	173	86524	51.207	ug/l	#	98
73) Isopropylbenzene	10.945	105	523826	49.479	ug/l		100
74) N-amyl acetate	10.823	43	243198	50.375	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	159676	49.851	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	149779m	53.124	ug/l		
77) Bromobenzene	11.183	156	125610	48.173	ug/l		98
78) n-propylbenzene	11.286	91	616928	49.295	ug/l		99
79) 2-Chlorotoluene	11.347	91	376486	49.117	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	435375	50.055	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	55880	50.543	ug/l		99
82) 4-Chlorotoluene	11.433	91	445075	49.164	ug/l		100
83) tert-Butylbenzene	11.695	119	442341	49.679	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	440134	49.911	ug/l		99
85) sec-Butylbenzene	11.872	105	529869	50.100	ug/l		100
86) p-Isopropyltoluene	11.994	119	446441	49.861	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	237383	49.014	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	243618	49.011	ug/l		99
89) n-Butylbenzene	12.317	91	420478	50.752	ug/l		100
90) Hexachloroethane	12.518	117	79751	50.732	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	227493	49.304	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	33020	50.918	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	153333	51.133	ug/l		100
94) Hexachlorobutadiene	13.707	225	53099	52.131	ug/l		99
95) Naphthalene	13.756	128	464206	50.836	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	142413	51.054	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

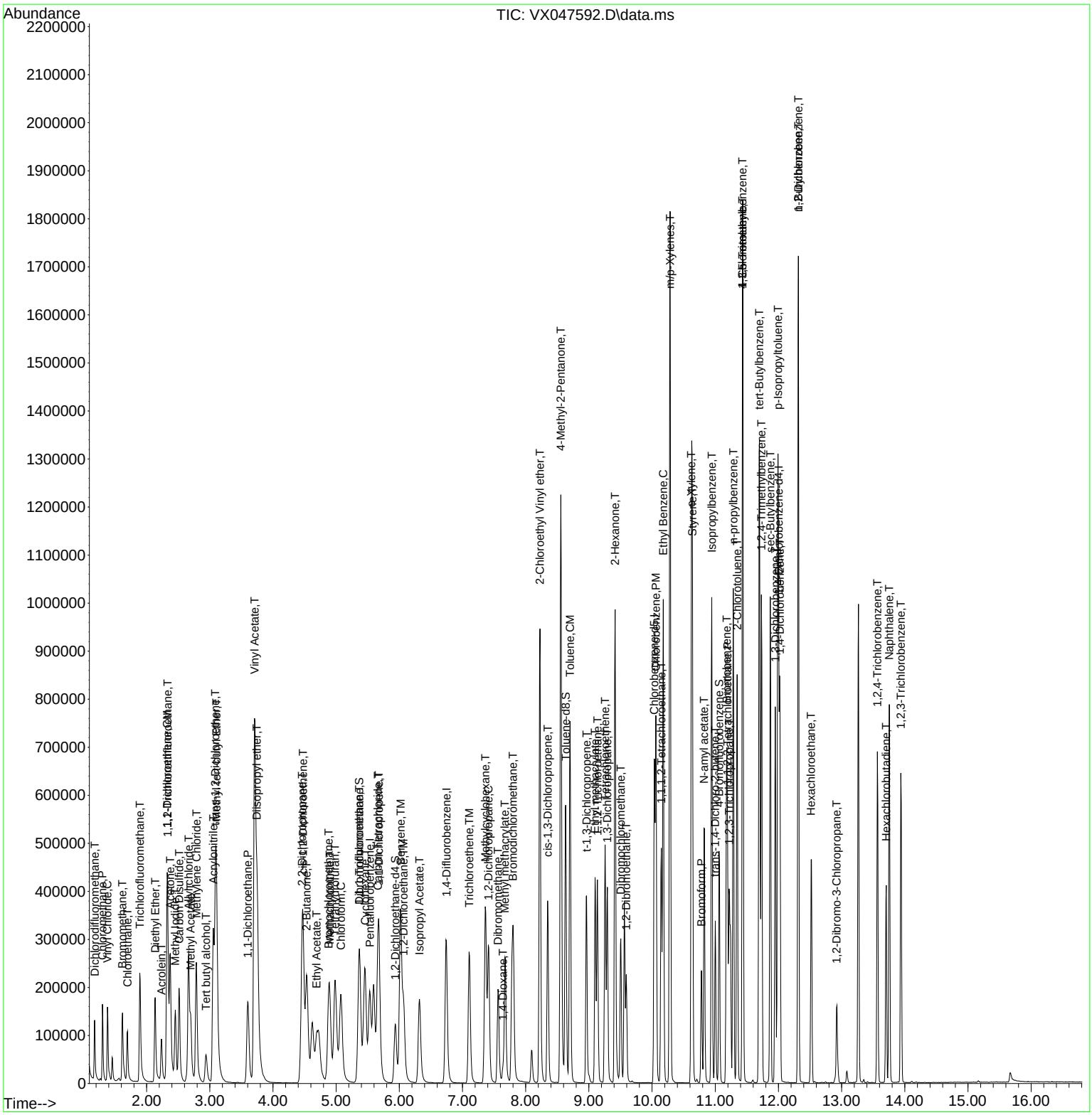
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

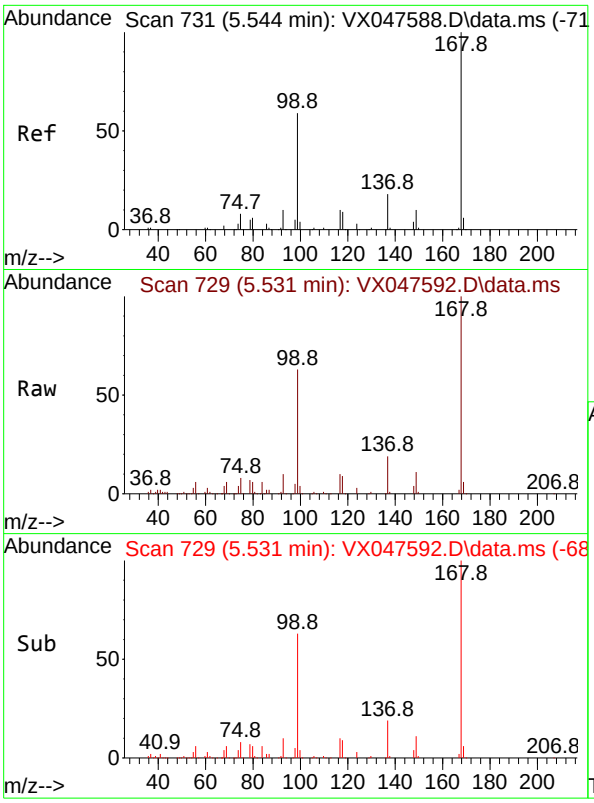
Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

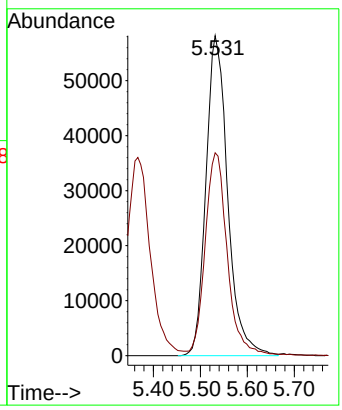




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:168 Resp: 18648

Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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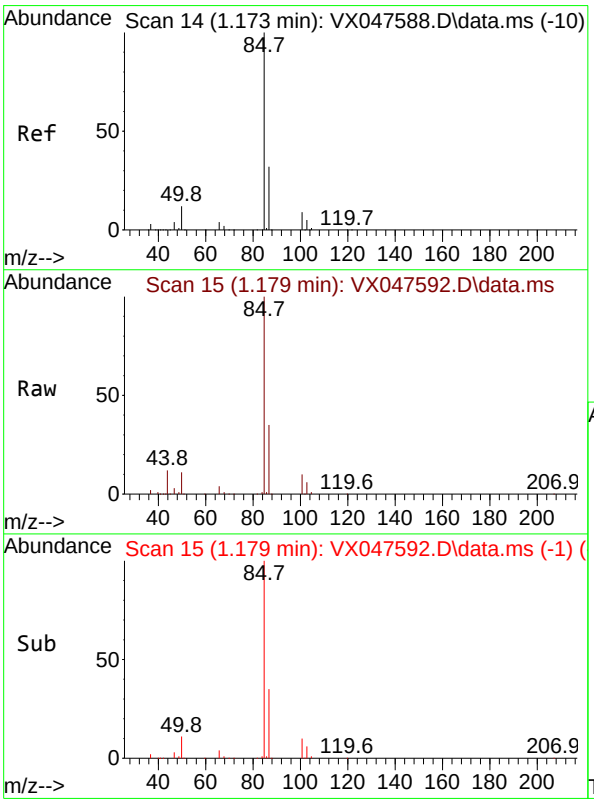
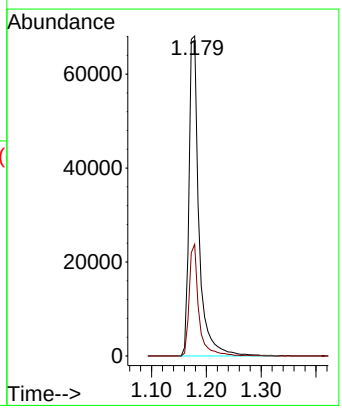
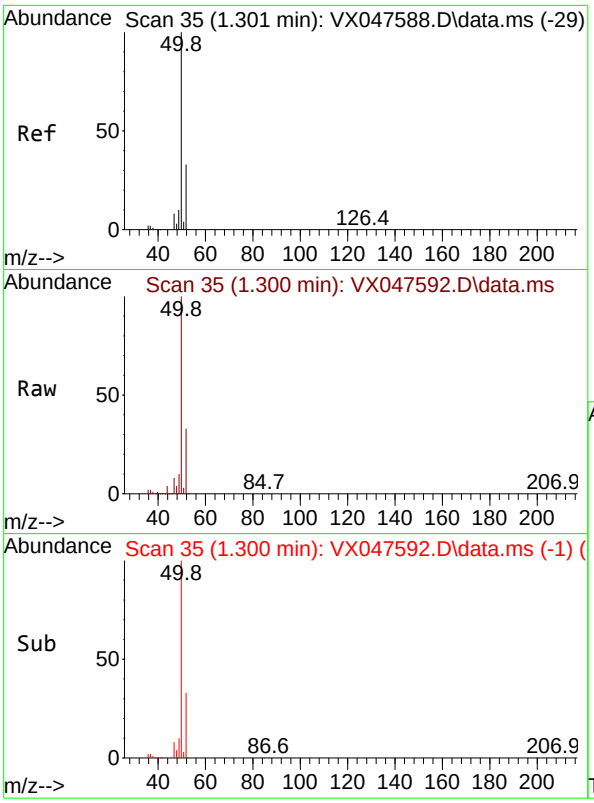


#2
Dichlorodifluoromethane
Concen: 44.592 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 85 Resp: 86110

Ion	Ratio	Lower	Upper
85	100		
87	34.9	15.8	47.3

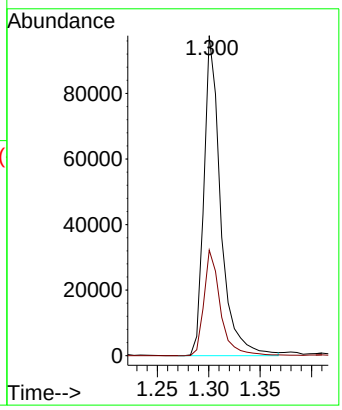




#3
Chloromethane
Concen: 43.710 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 50 Resp: 11093

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.1	39.1



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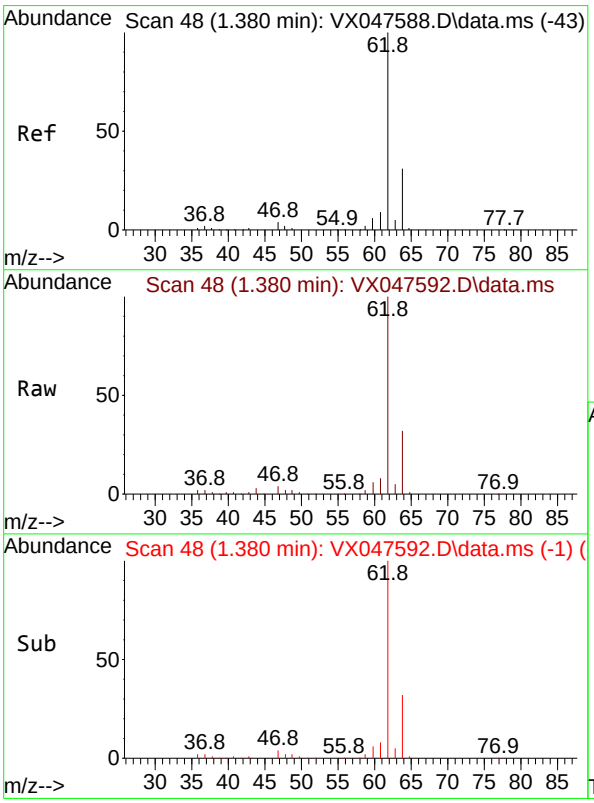
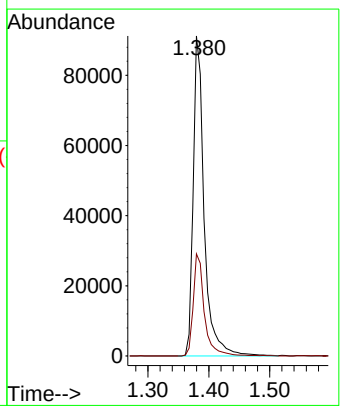
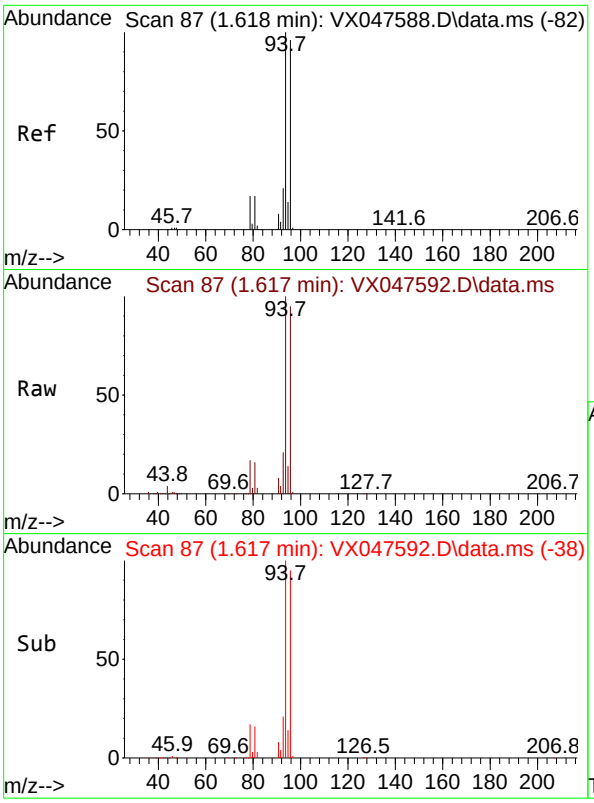


#4
Vinyl Chloride
Concen: 45.783 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 113742

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.9	37.3

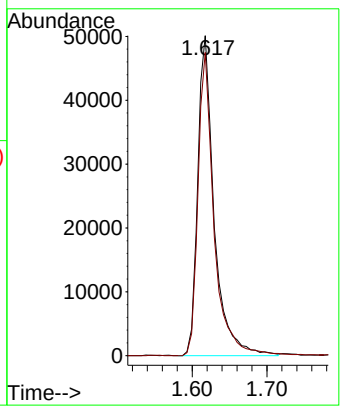




#5
Bromomethane
Concen: 48.489 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 94 Resp: 7638

Ion	Ratio	Lower	Upper
94	100		
96	94.7	76.6	115.0



Instrument :
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ClientSampleId :
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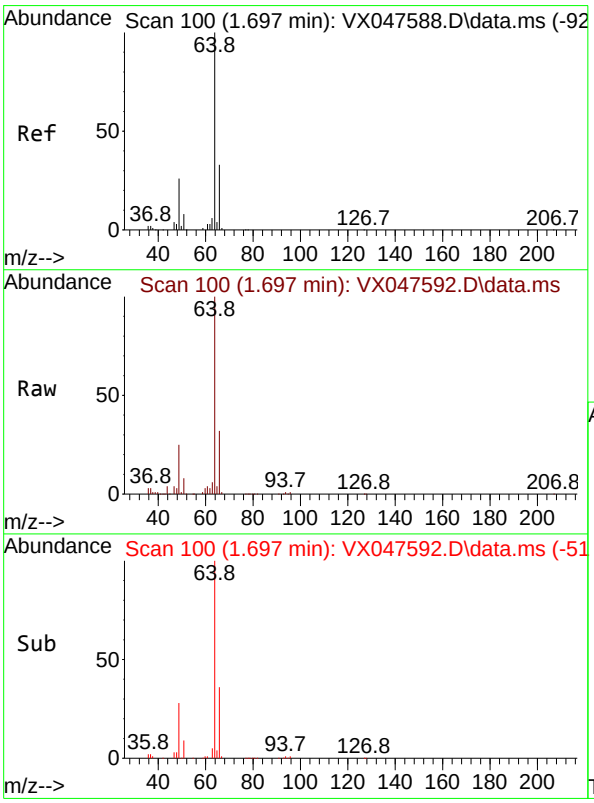
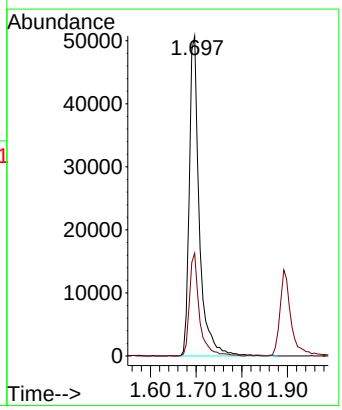
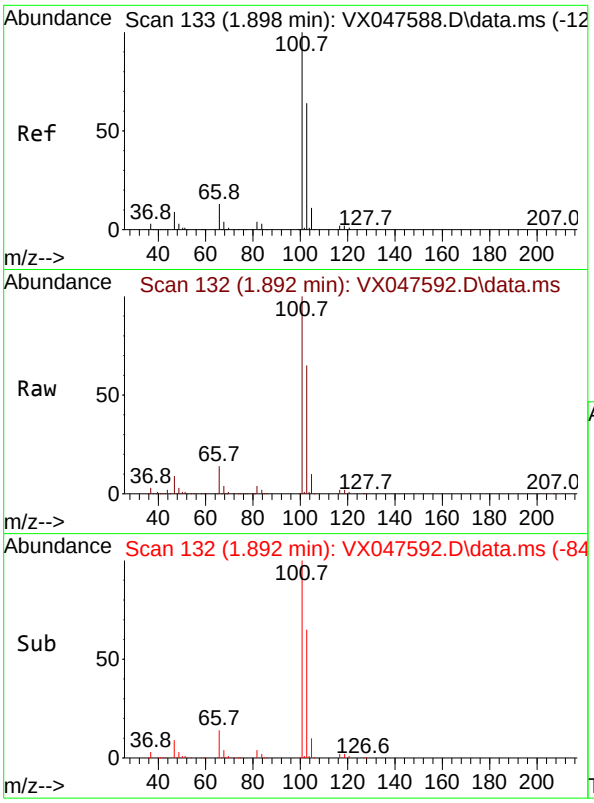


#6
Chloroethane
Concen: 46.575 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 64 Resp: 77337

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1

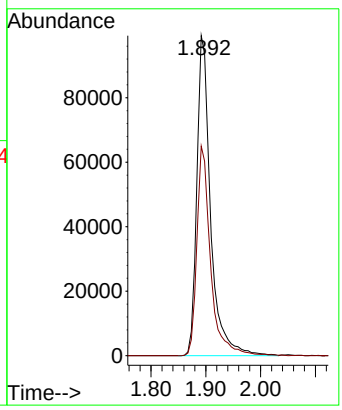




#7
Trichlorofluoromethane
Concen: 47.074 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:101 Resp: 17364

Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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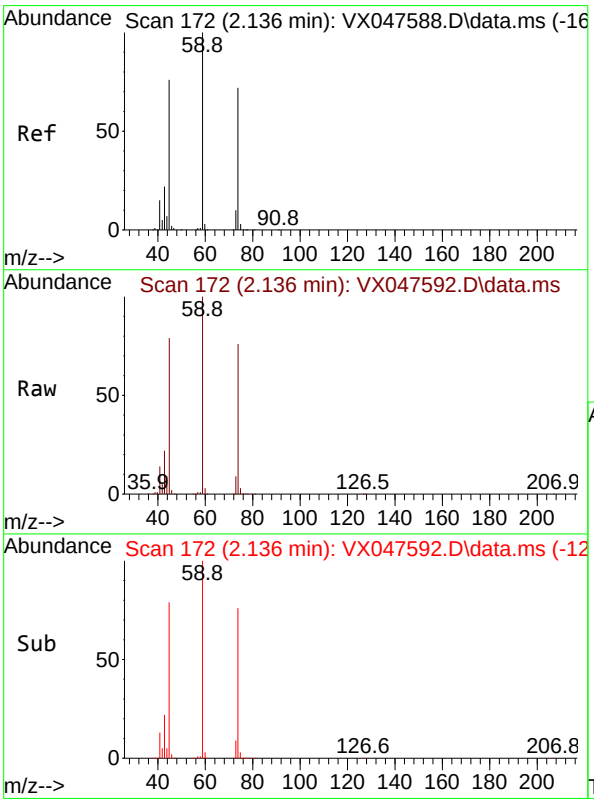
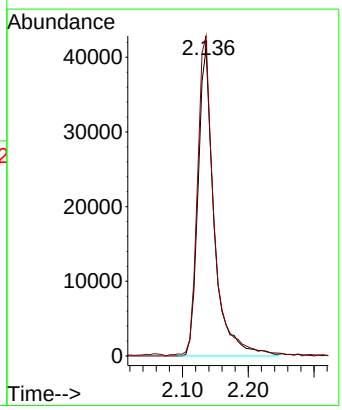
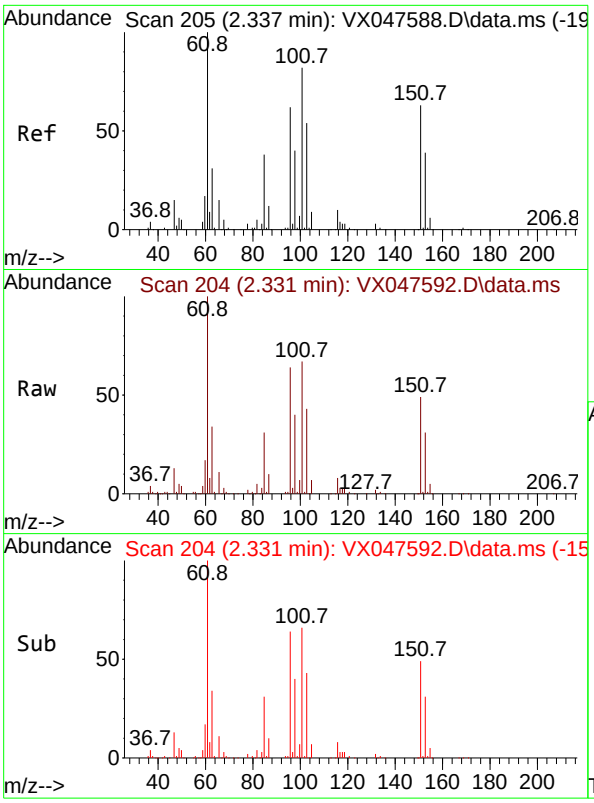


#8
Diethyl Ether
Concen: 46.693 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 74 Resp: 70459

Ion	Ratio	Lower	Upper
74	100		
45	107.1	52.3	156.8

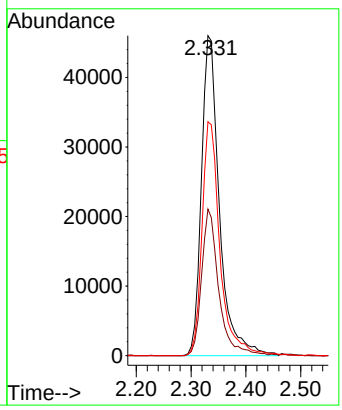




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.524 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:101 Resp: 10466

Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	73.3	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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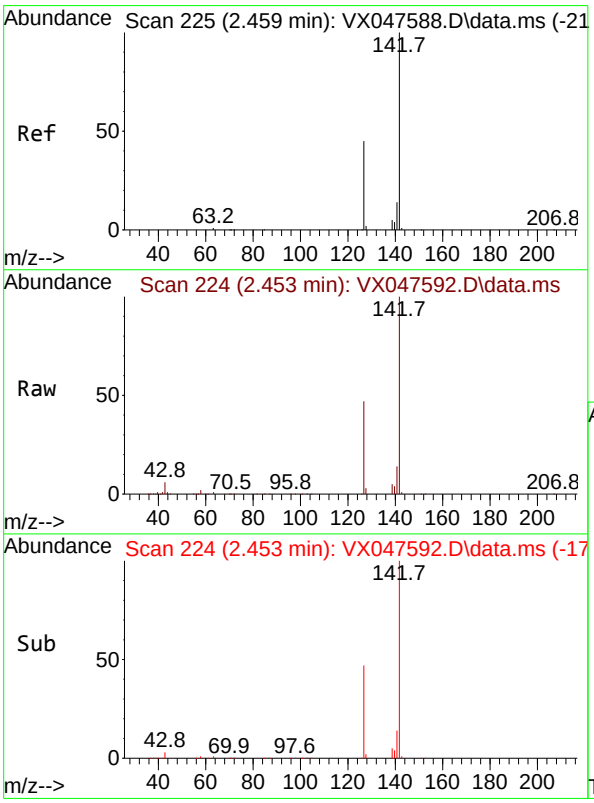
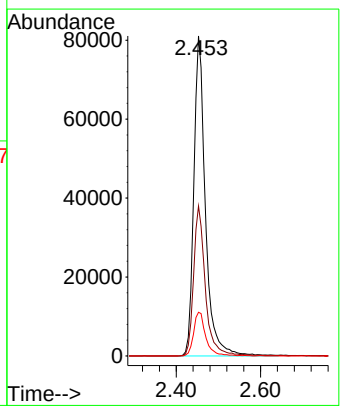
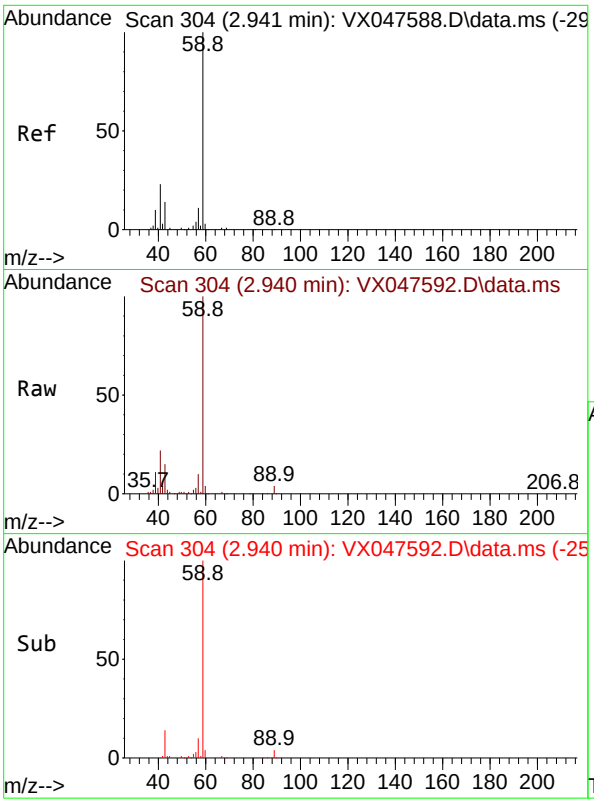


#10
Methyl Iodide
Concen: 46.210 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:142 Resp: 155450

Ion	Ratio	Lower	Upper
142	100		
127	47.6	37.2	55.8
141	14.4	11.4	17.0





#11
Tert butyl alcohol
Concen: 256.271 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 59 Resp: 8472

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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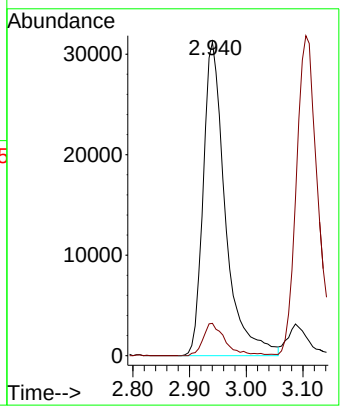
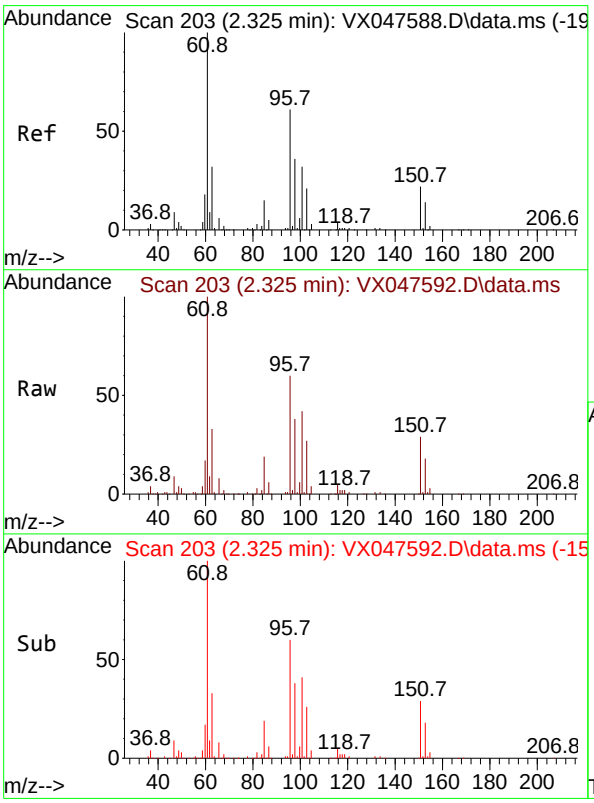
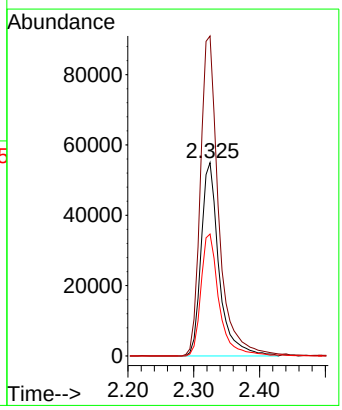


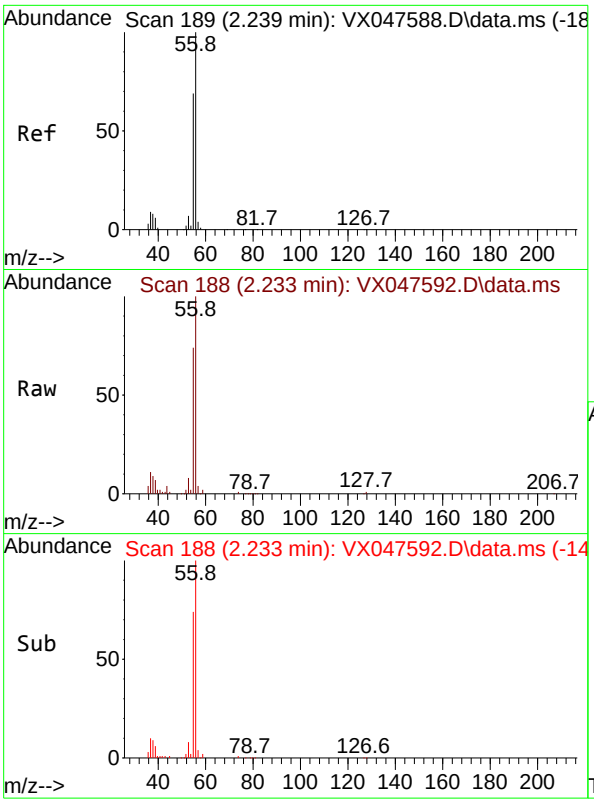


#12
1,1-Dichloroethene
Concen: 47.076 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 104302

Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.0	196.6
98	63.1	47.7	71.5

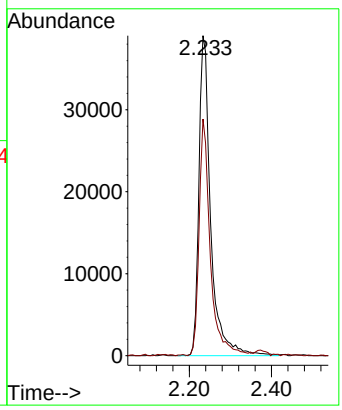




#13
Acrolein
Concen: 254.867 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 56 Resp: 7764

Ion	Ratio	Lower	Upper
56	100		
55	70.3	57.2	85.8



Instrument :
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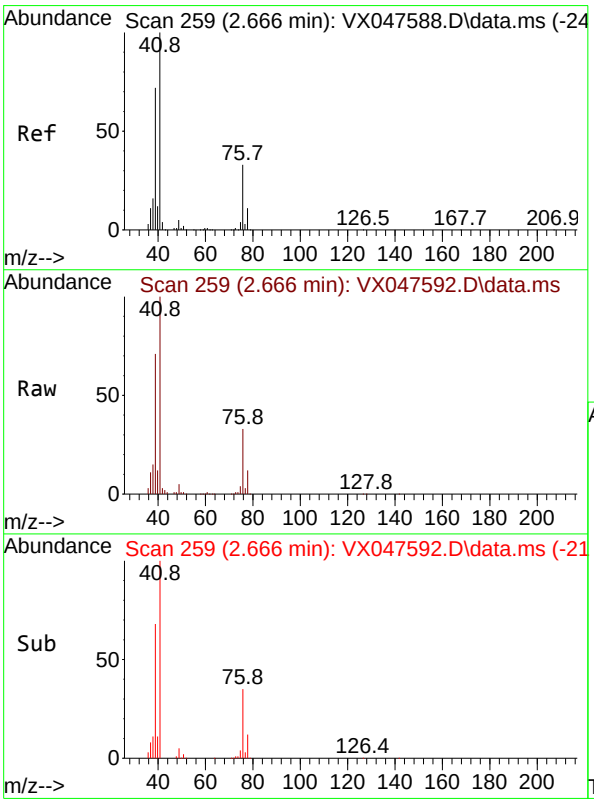
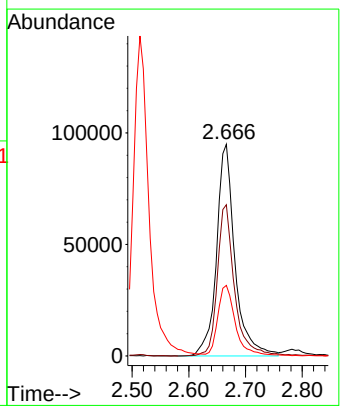
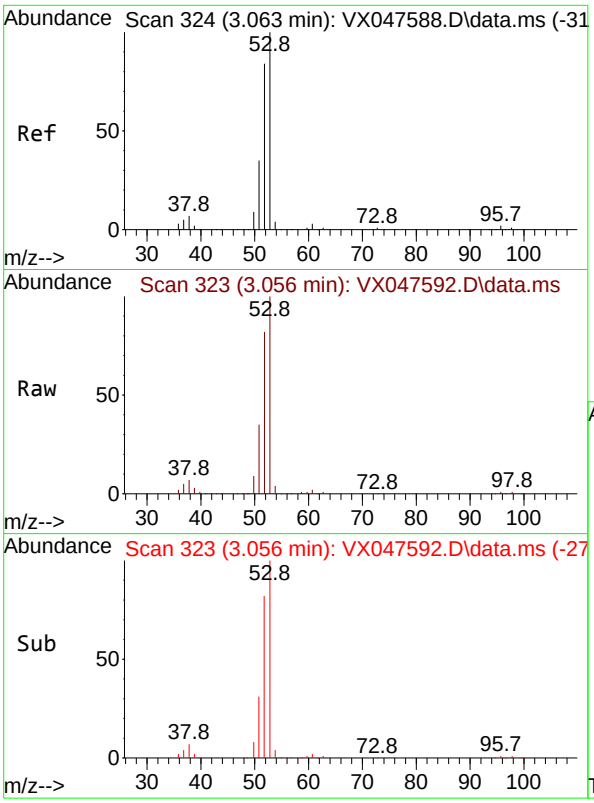


#14
Allyl chloride
Concen: 46.742 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 213704

Ion	Ratio	Lower	Upper
41	100		
39	67.2	54.7	82.1
76	31.7	25.7	38.5

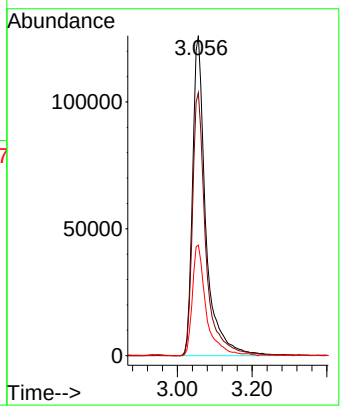




#15
Acrylonitrile
Concen: 253.567 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 53 Resp: 31050

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.2	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
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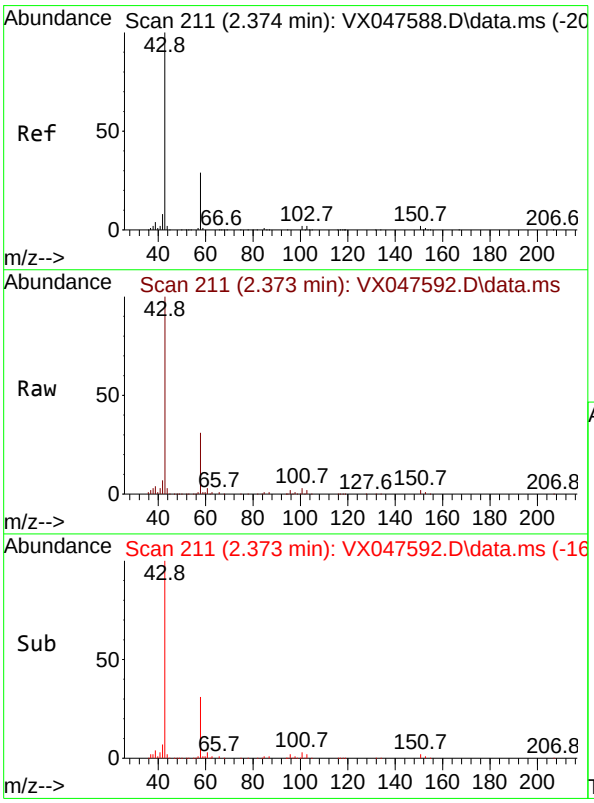
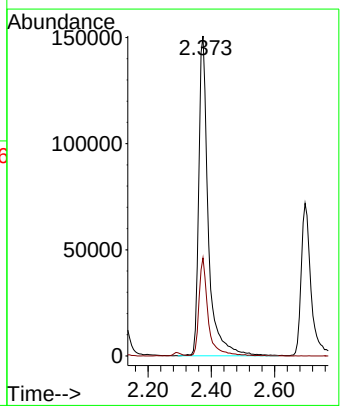
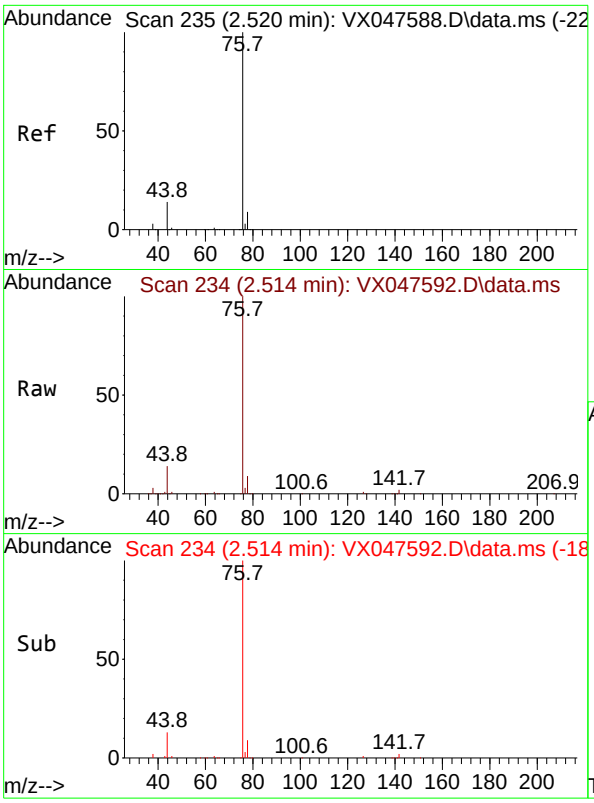


#16
Acetone
Concen: 245.006 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 316217

Ion	Ratio	Lower	Upper
43	100		
58	30.6	23.4	35.0

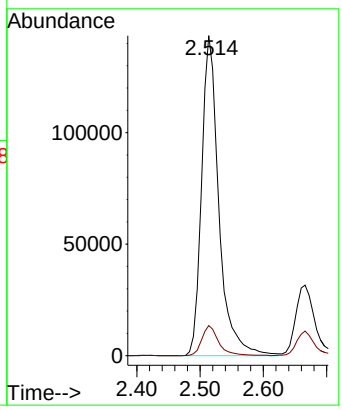




#17
Carbon Disulfide
Concen: 44.966 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 76 Resp: 27274

Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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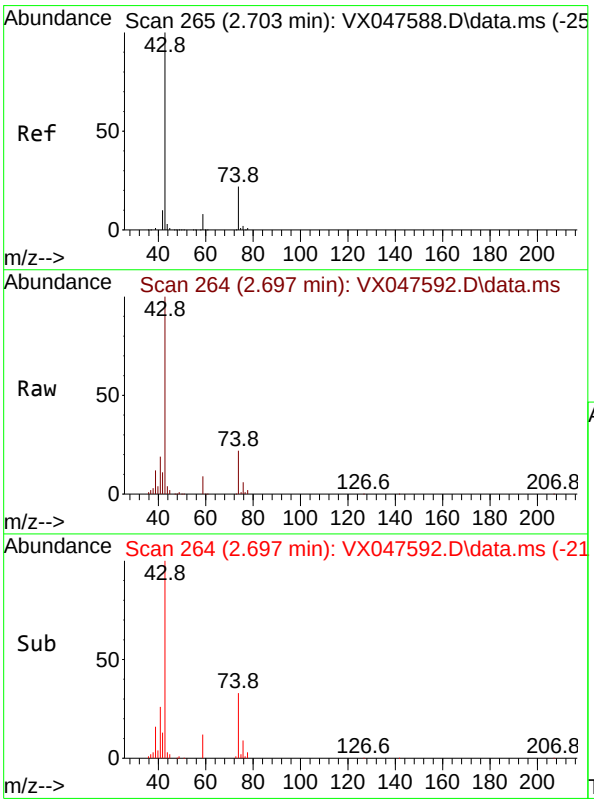
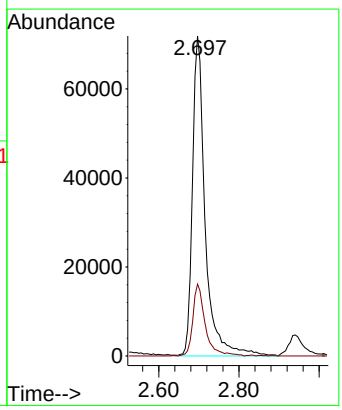
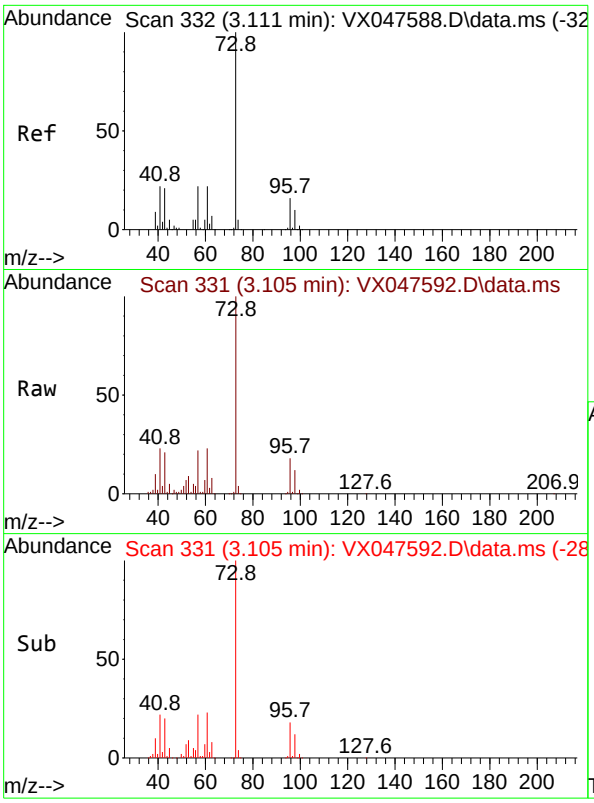


#18
Methyl Acetate
Concen: 55.175 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 158480

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

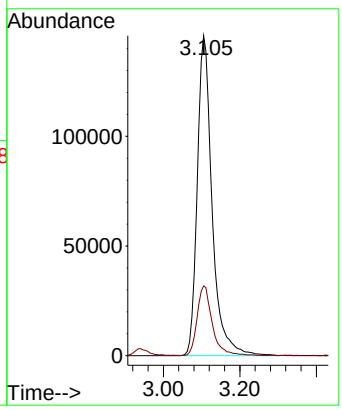




#19
Methyl tert-butyl Ether
Concen: 48.538 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 73 Resp: 39257

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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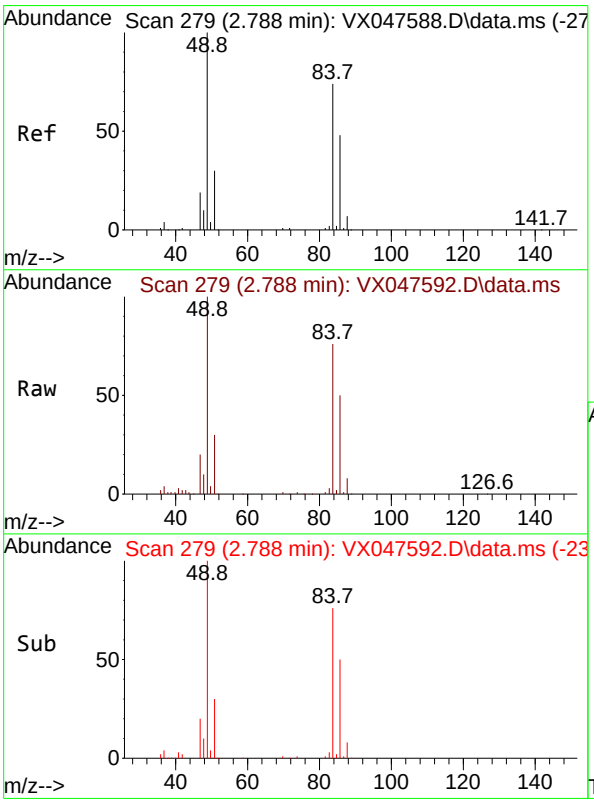
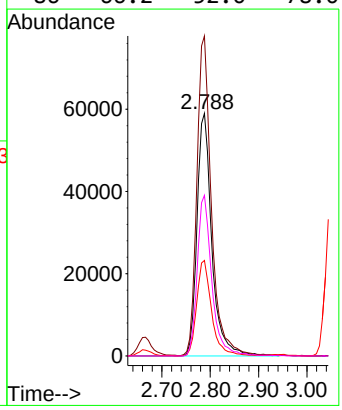
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

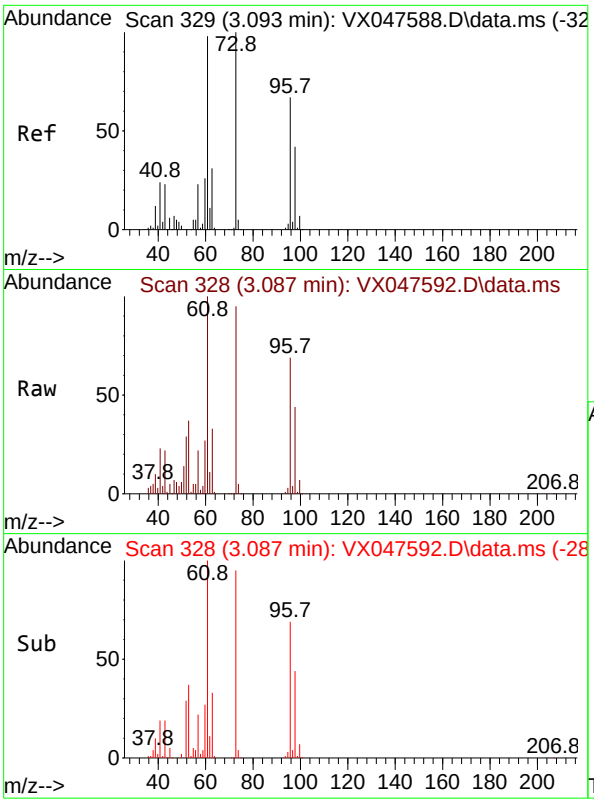


#20
Methylene Chloride
Concen: 46.000 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 84 Resp: 125669

Ion	Ratio	Lower	Upper
84	100		
49	131.8	108.6	162.8
51	39.4	32.6	48.8
86	66.2	52.0	78.0

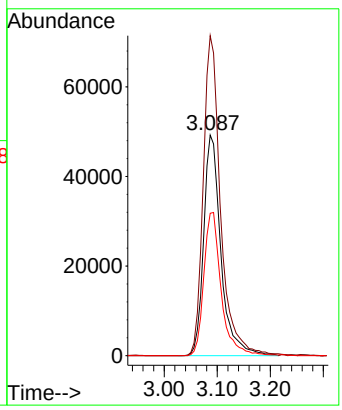




#21
trans-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 11141

Ion	Ratio	Lower	Upper
96	100		
61	145.1	116.2	174.2
98	64.5	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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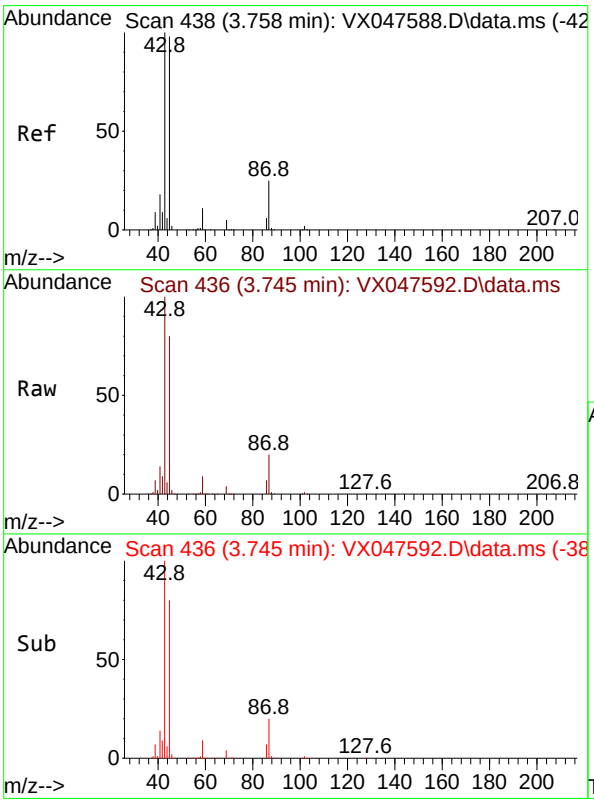
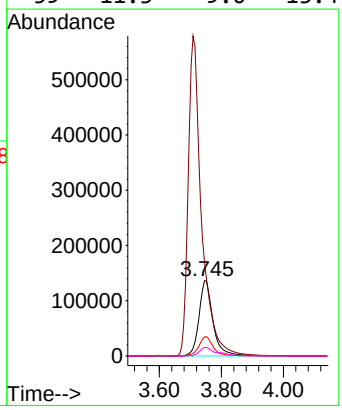
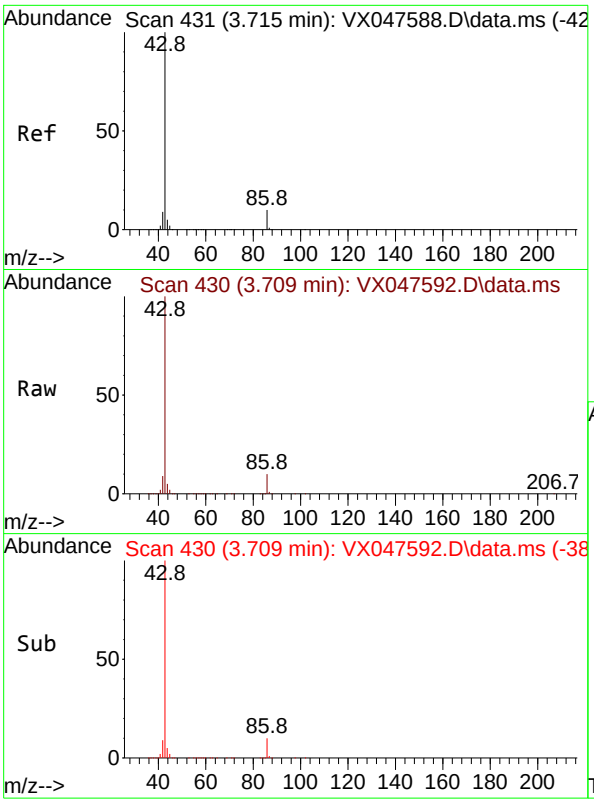


#22
Diisopropyl ether
Concen: 48.174 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 45 Resp: 426854

Ion	Ratio	Lower	Upper
45	100		
43	124.9	81.0	121.4#
87	25.2	20.3	30.5
59	11.3	9.0	13.4

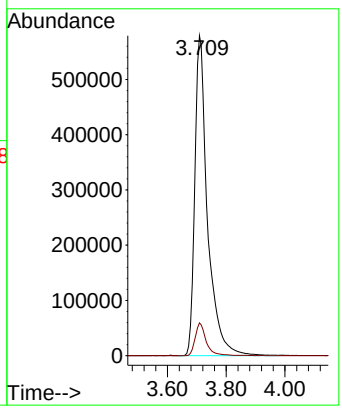




#23
Vinyl Acetate
Concen: 245.539 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 174126

Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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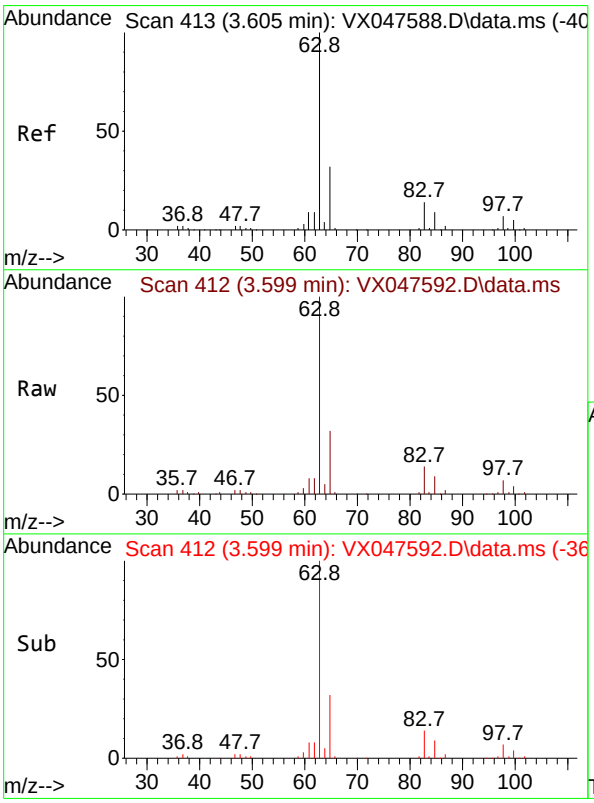
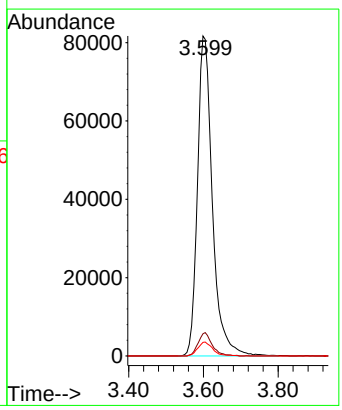
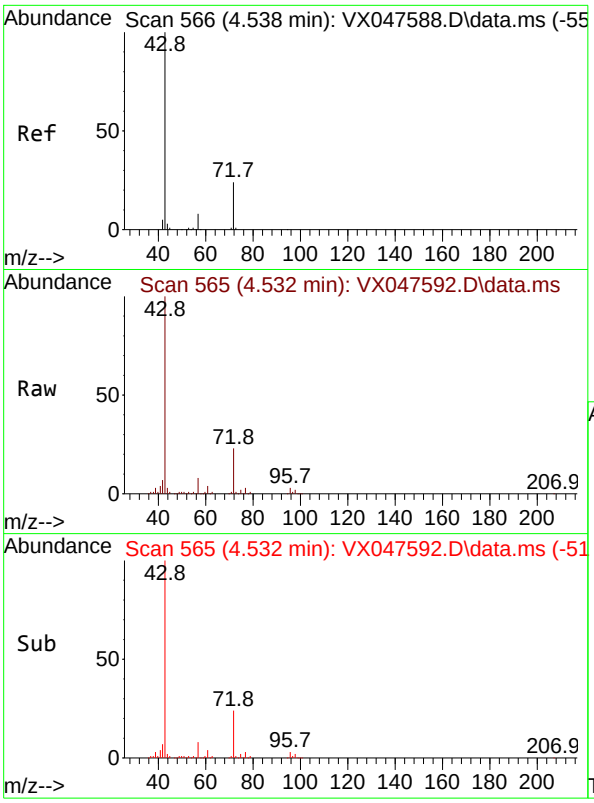


#24
1,1-Dichloroethane
Concen: 48.041 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 226249

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.8	11.2
100	4.4	2.3	6.9





#25
2-Butanone
Concen: 253.598 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 40827

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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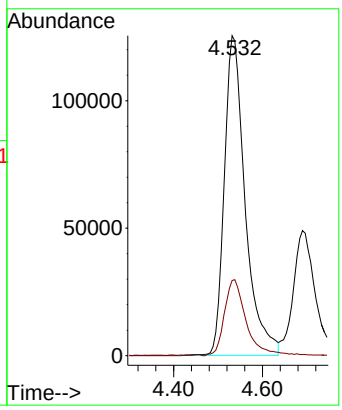
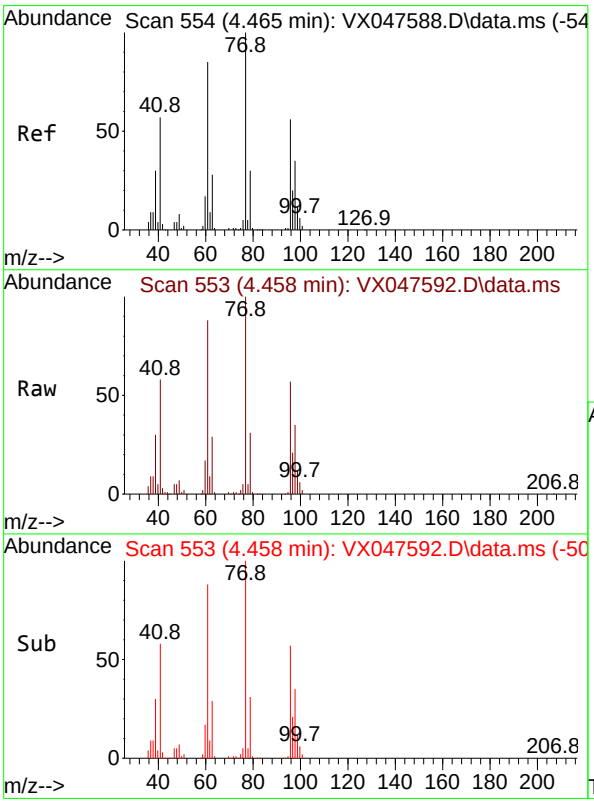
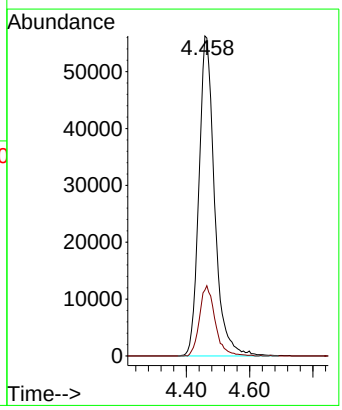


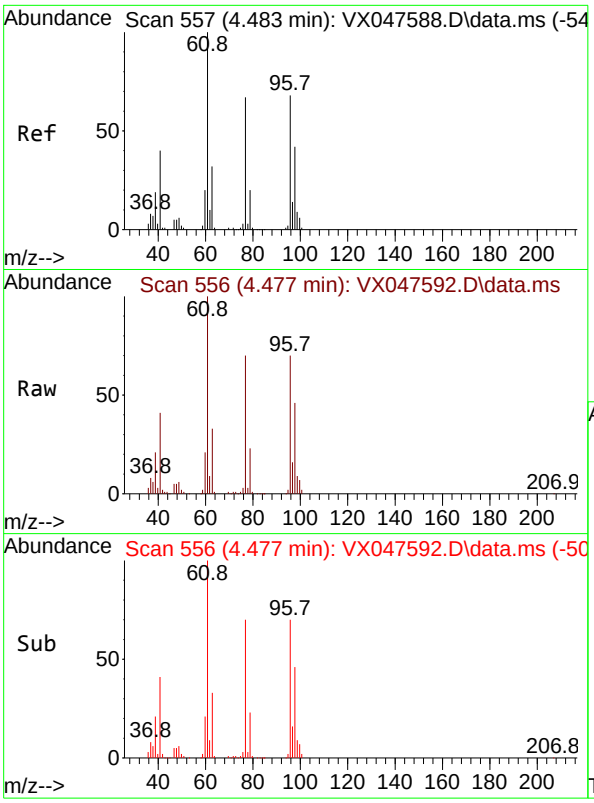


#26
2,2-Dichloropropane
Concen: 49.494 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 77 Resp: 193760

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.9	32.7

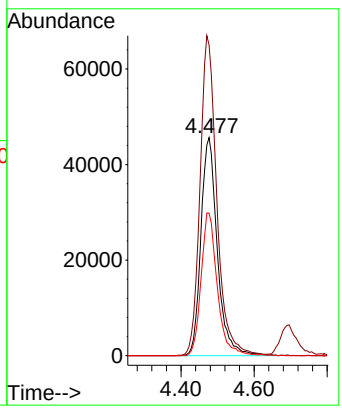




#27
cis-1,2-Dichloroethene
Concen: 48.826 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 14263

Ion	Ratio	Lower	Upper
96	100		
61	149.7	0.0	303.2
98	64.3	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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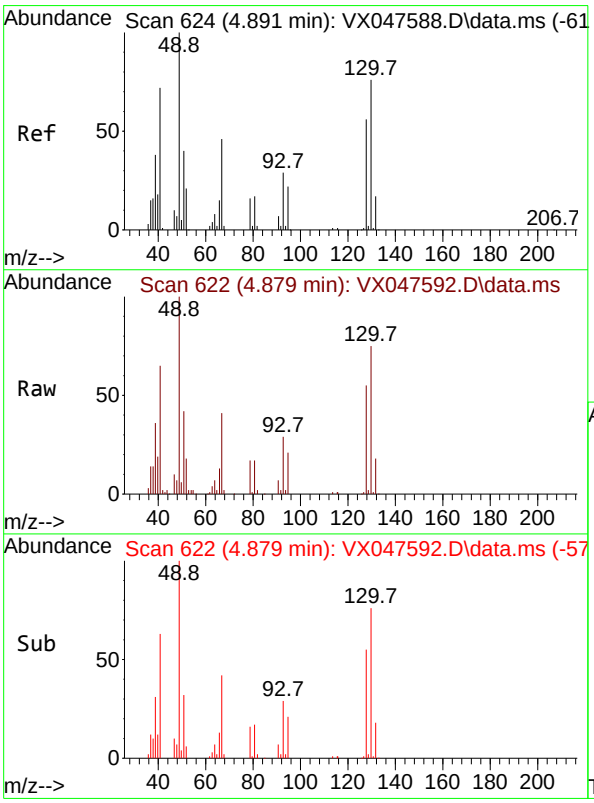
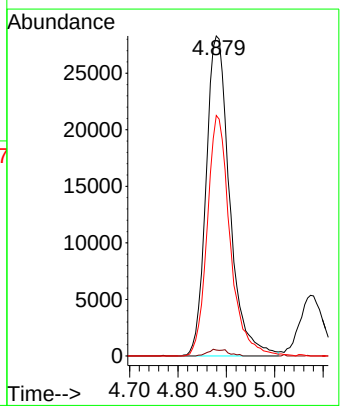
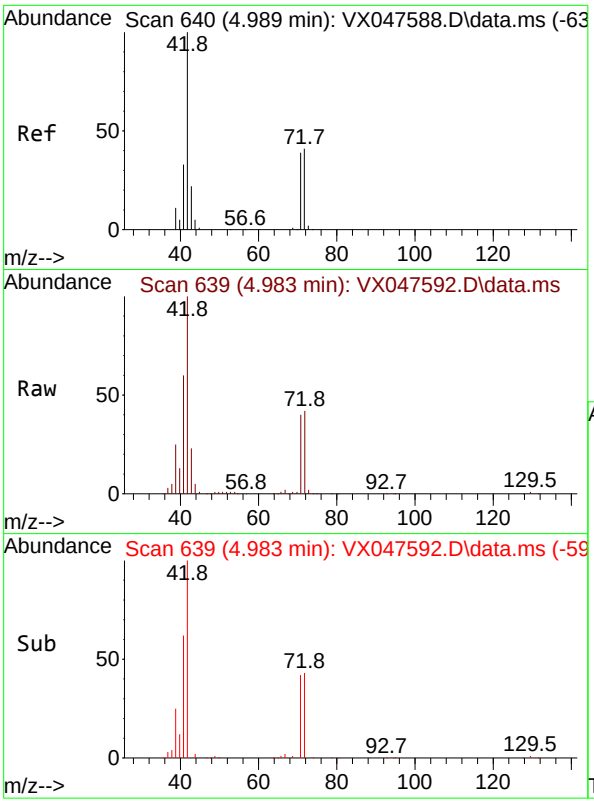


#28
Bromochloromethane
Concen: 46.586 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 49 Resp: 95782

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.9	57.8	86.8

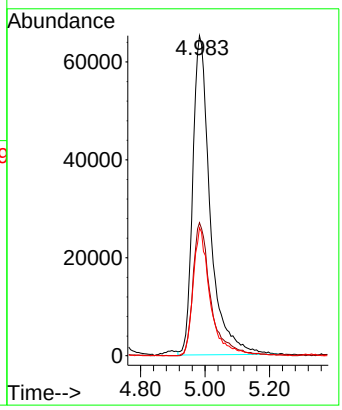




#29
Tetrahydrofuran
Concen: 253.375 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 42 Resp: 24539

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	38.9	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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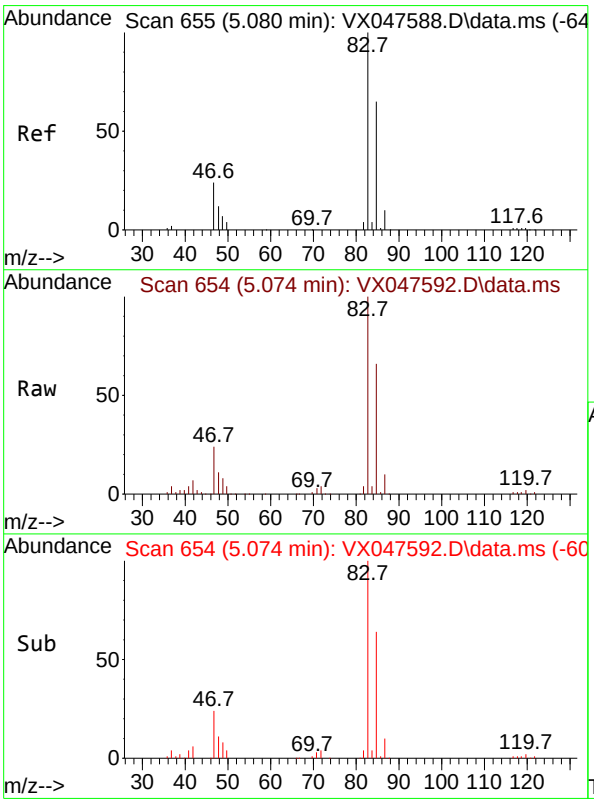
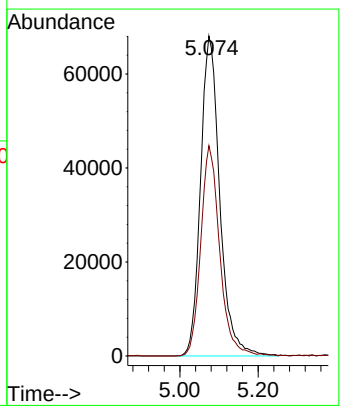
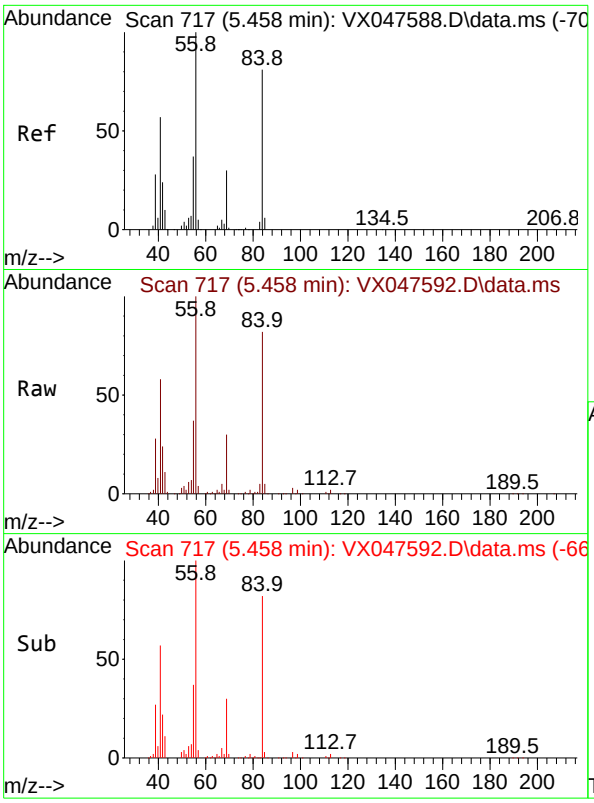


#30
Chloroform
Concen: 48.739 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 231954

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.8	77.6

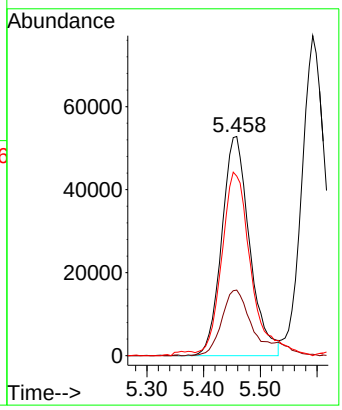




#31
Cyclohexane
Concen: 45.999 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 56 Resp: 18043

Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.8	35.8
84	80.3	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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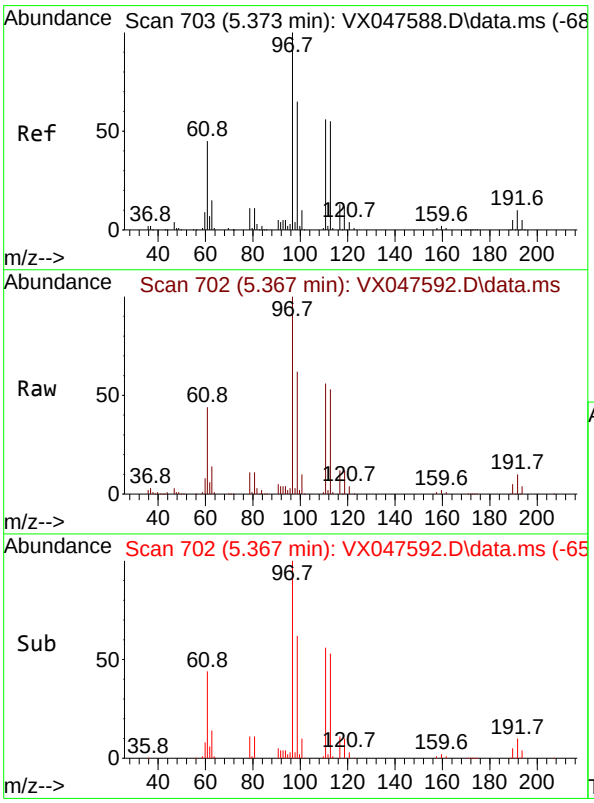
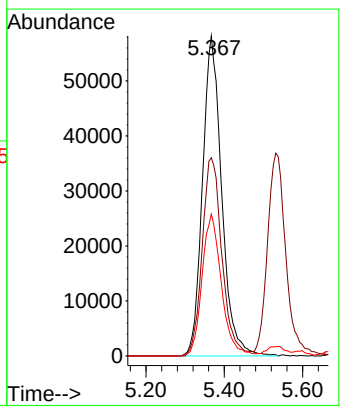
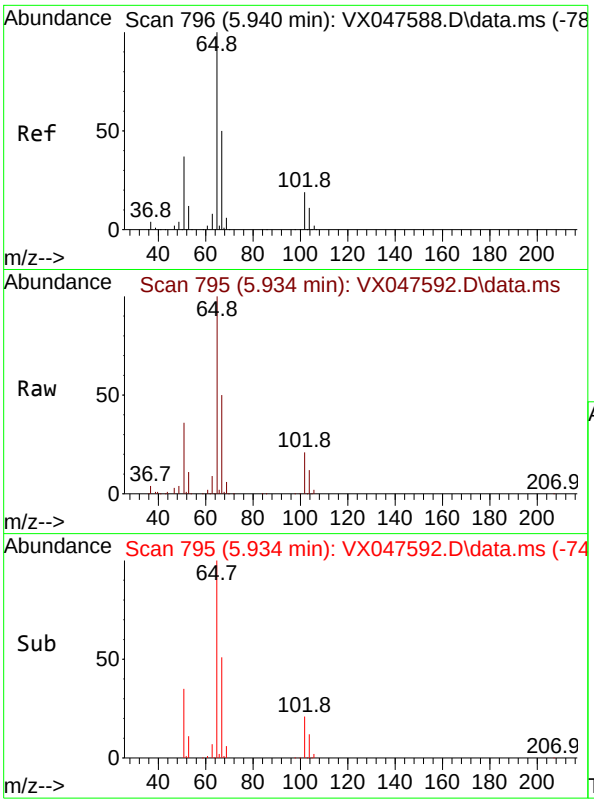


#32
1,1,1-Trichloroethane
Concen: 48.978 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 97 Resp: 197711

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	44.6	35.8	53.8

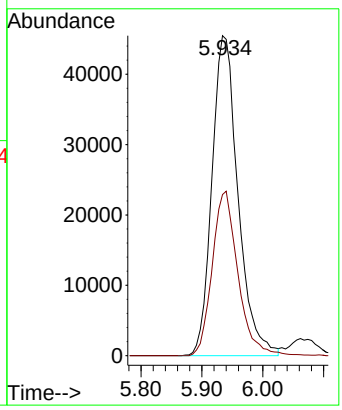




#33
1,2-Dichloroethane-d4
Concen: 45.550 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 65 Resp: 13520

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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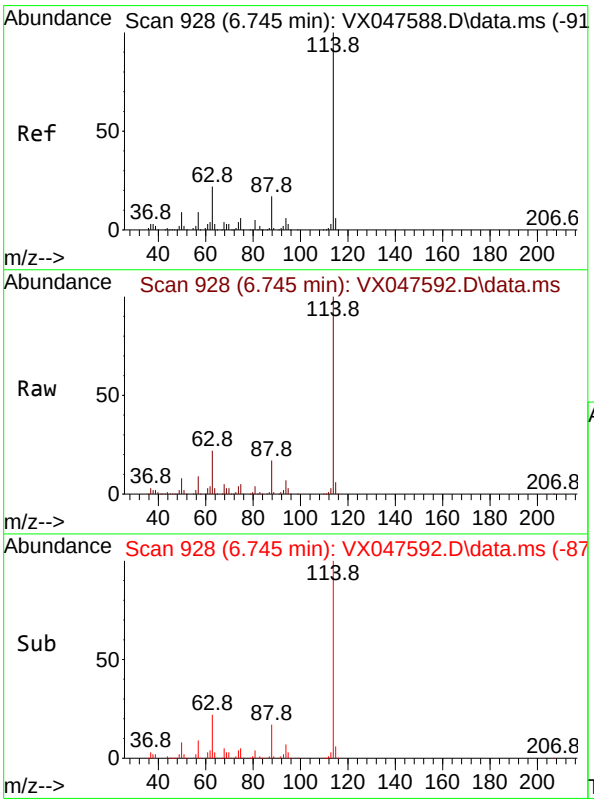
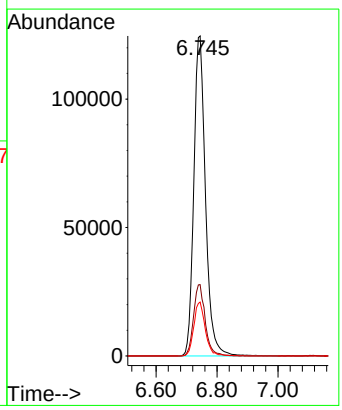
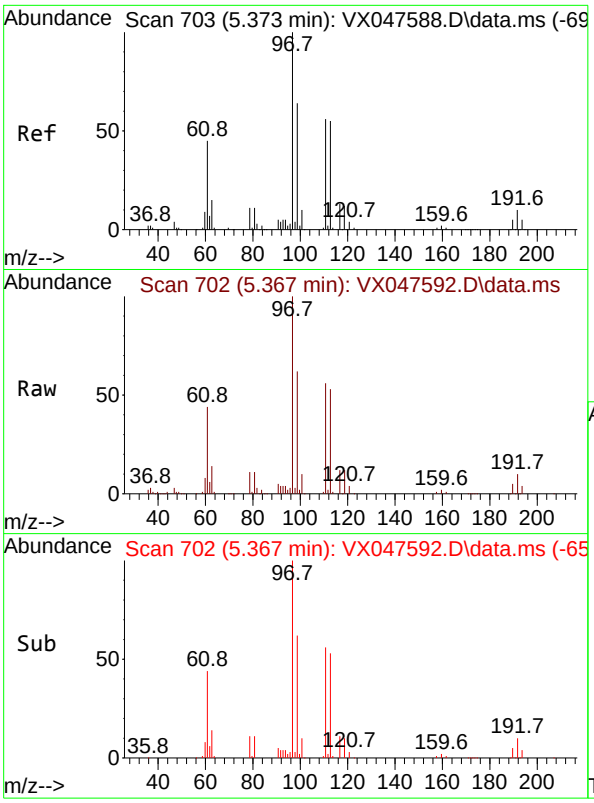


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:114 Resp: 331837

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2

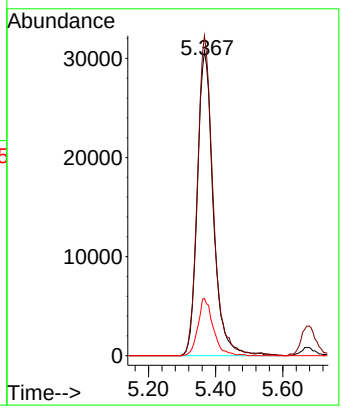




#35
Dibromofluoromethane
Concen: 45.559 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:113 Resp: 10139

Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.9	121.3
192	17.9	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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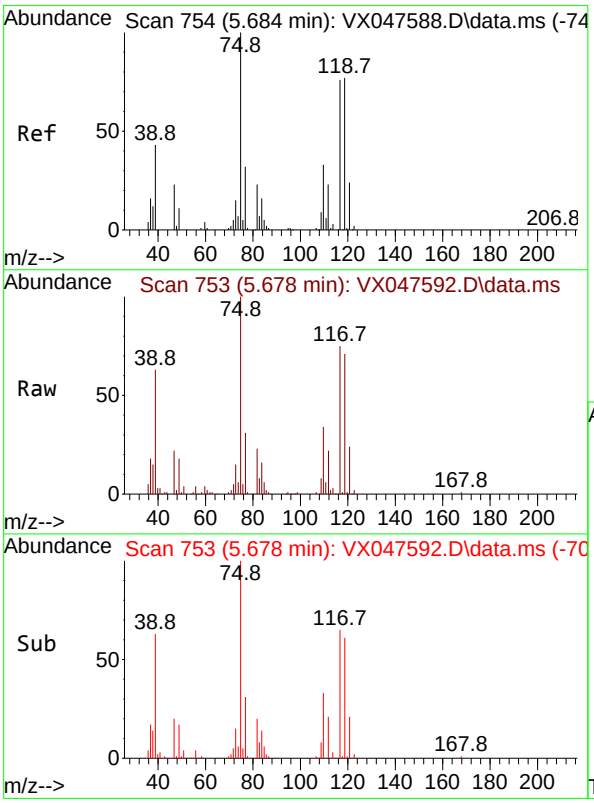
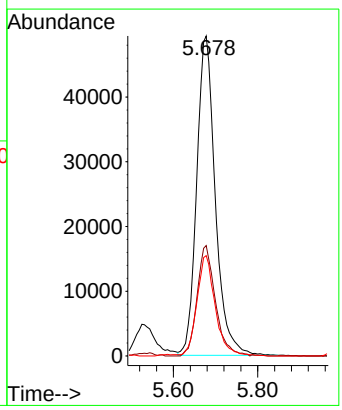
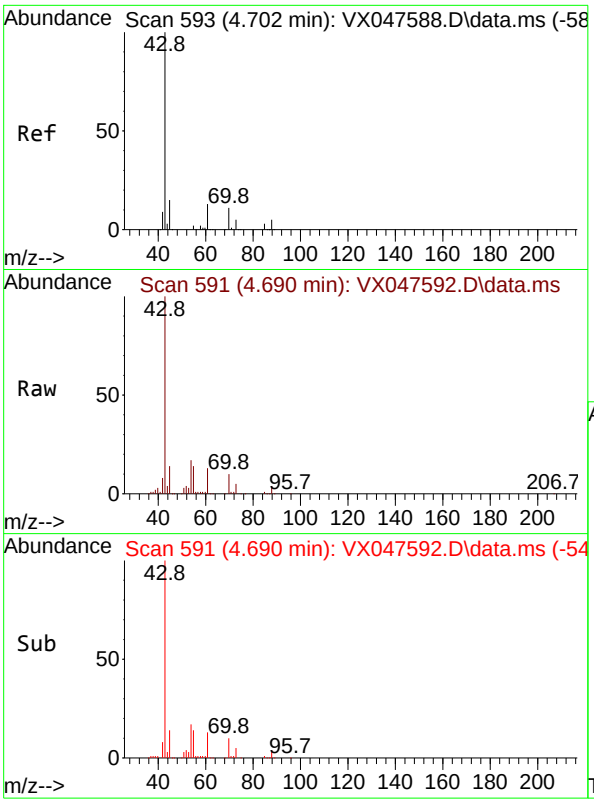


#36
1,1-Dichloropropene
Concen: 46.663 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 151745

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.0	24.3	36.5





#37
Ethyl Acetate
Concen: 49.241 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 17145

Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	9.8	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

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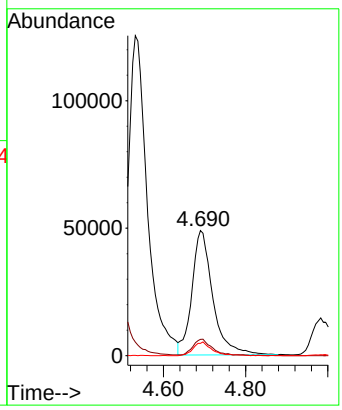
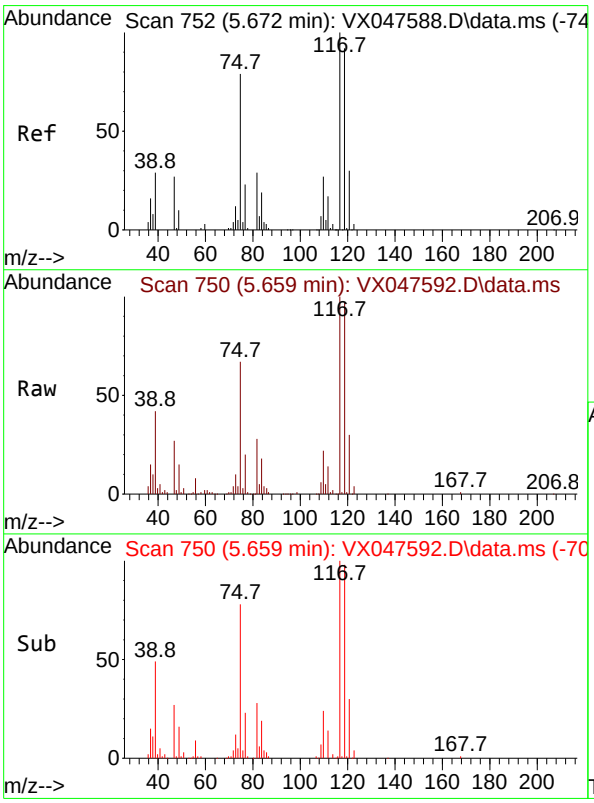
Supervised By :Mahesh Dadoda 09/18/2025

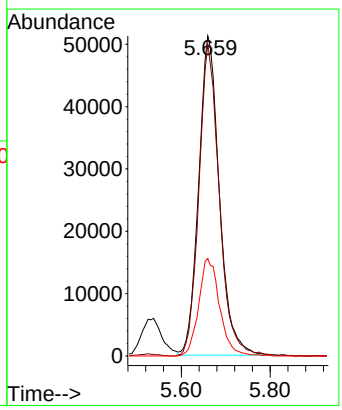


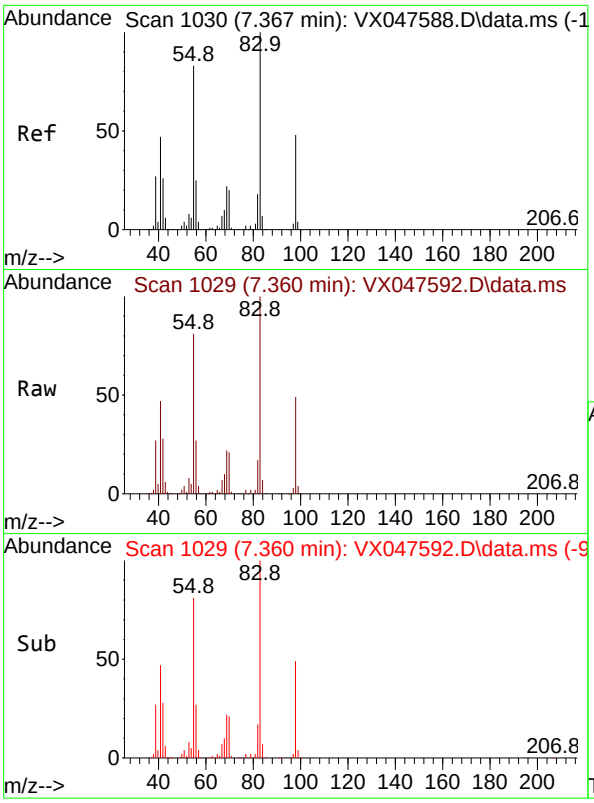


#38
Carbon Tetrachloride
Concen: 46.935 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 165834

Ion	Ratio	Lower	Upper
117	100		
119	97.6	73.4	110.2
121	30.5	23.8	35.6

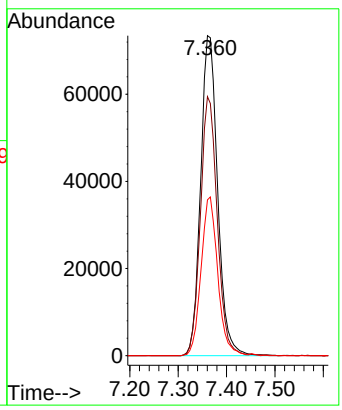




#39
Methylcyclohexane
Concen: 48.597 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 17939

Ion	Ratio	Lower	Upper
83	100		
55	81.0	66.4	99.6
98	48.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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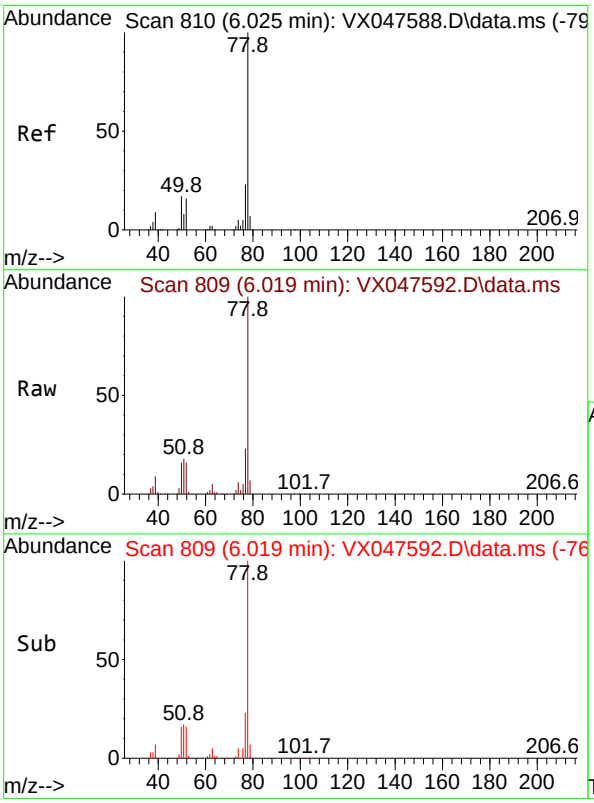
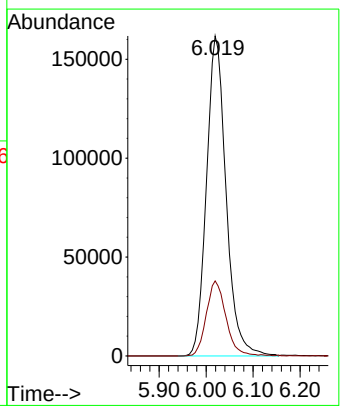
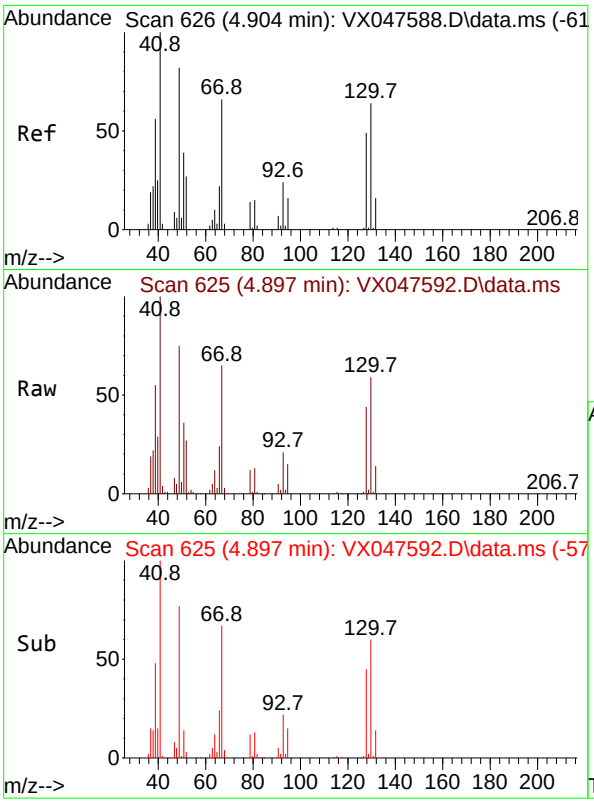


#40
Benzene
Concen: 47.357 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 78 Resp: 467748

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

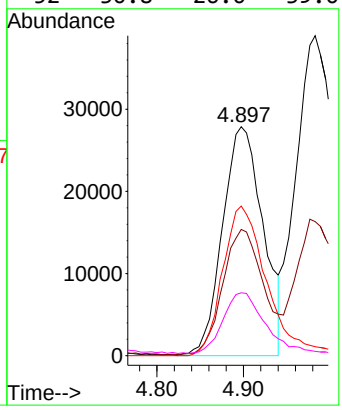




#41
Methacrylonitrile
Concen: 50.490 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 9075

Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.3	64.9
67	72.5	58.6	87.8
52	30.8	26.0	39.0



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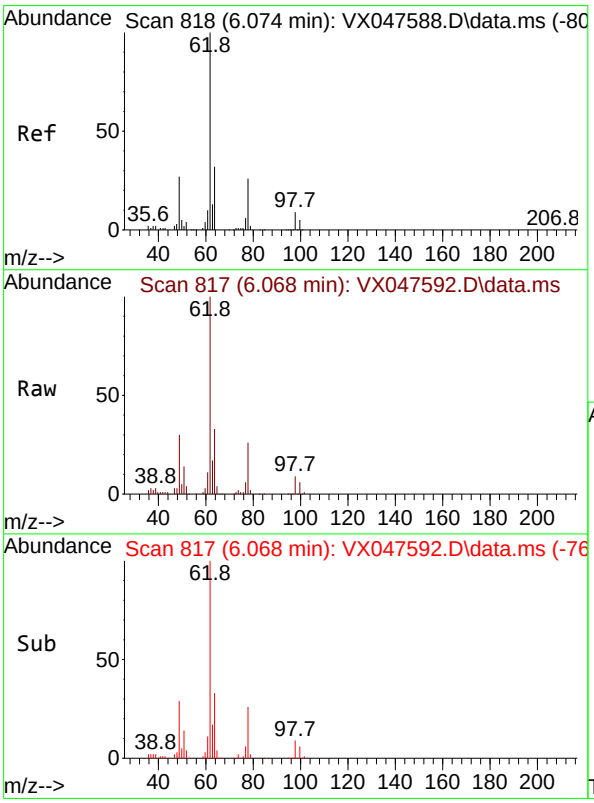
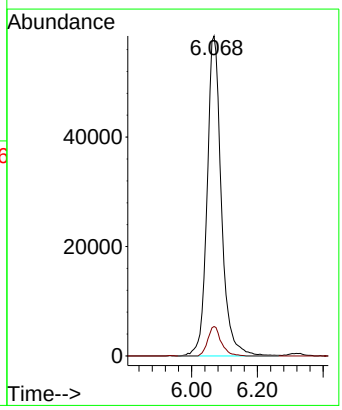
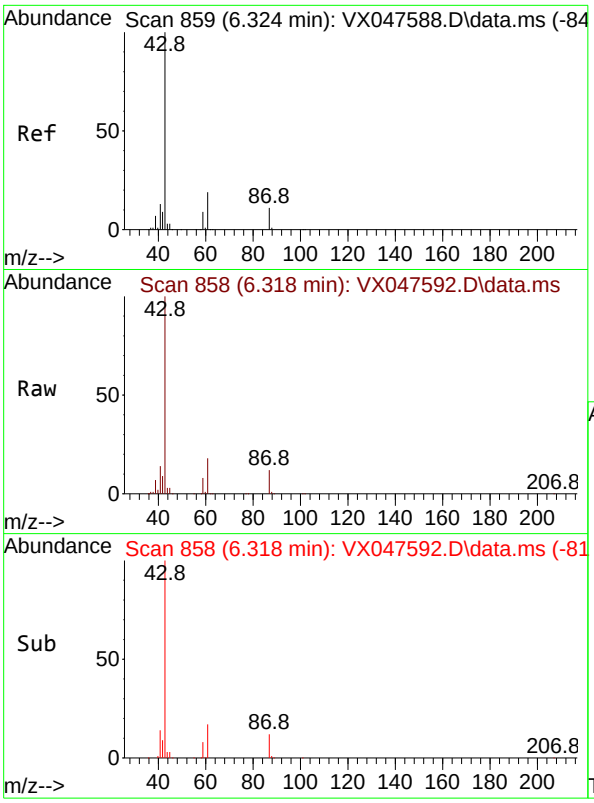


#42
1,2-Dichloroethane
Concen: 46.867 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 176131

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

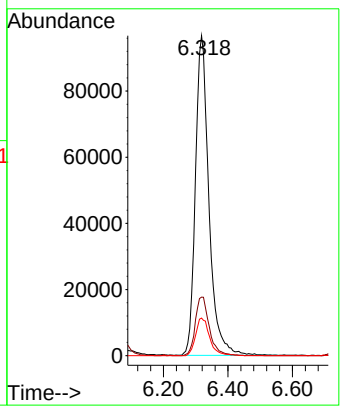




#43
Isopropyl Acetate
Concen: 49.136 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 28059

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.2	22.8
87	12.2	9.6	14.4



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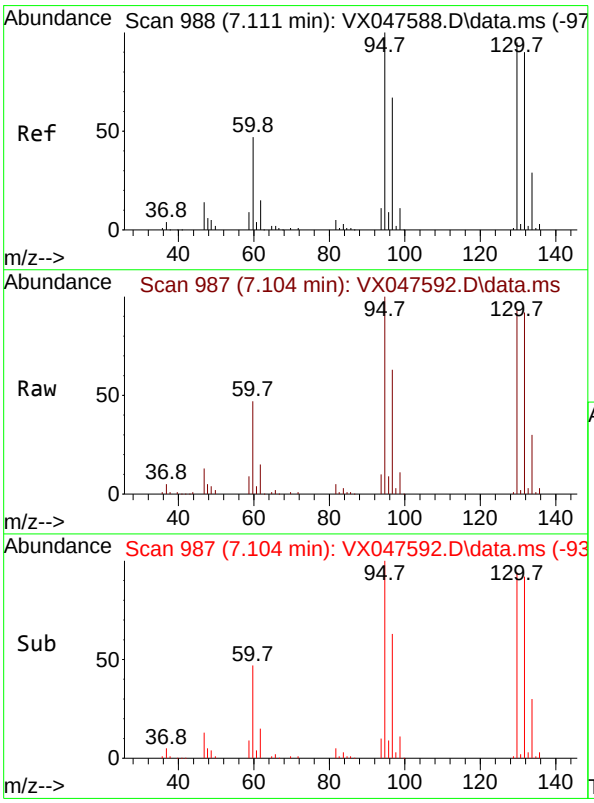
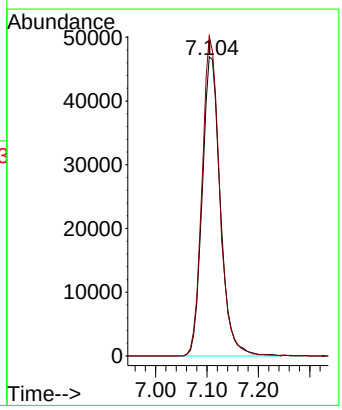
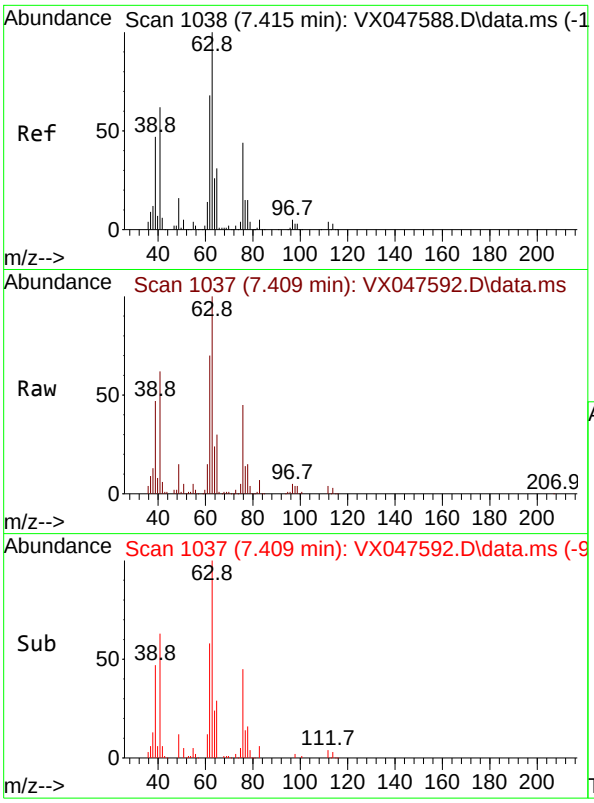


#44
Trichloroethene
Concen: 48.037 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:130 Resp: 114708

Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	210.8

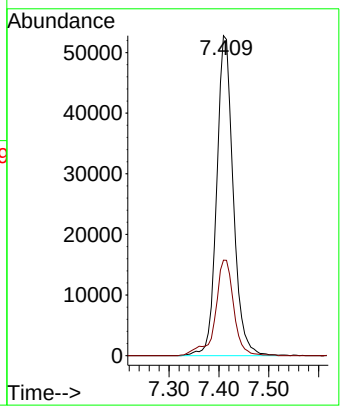




#45
1,2-Dichloropropane
Concen: 48.053 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 12153

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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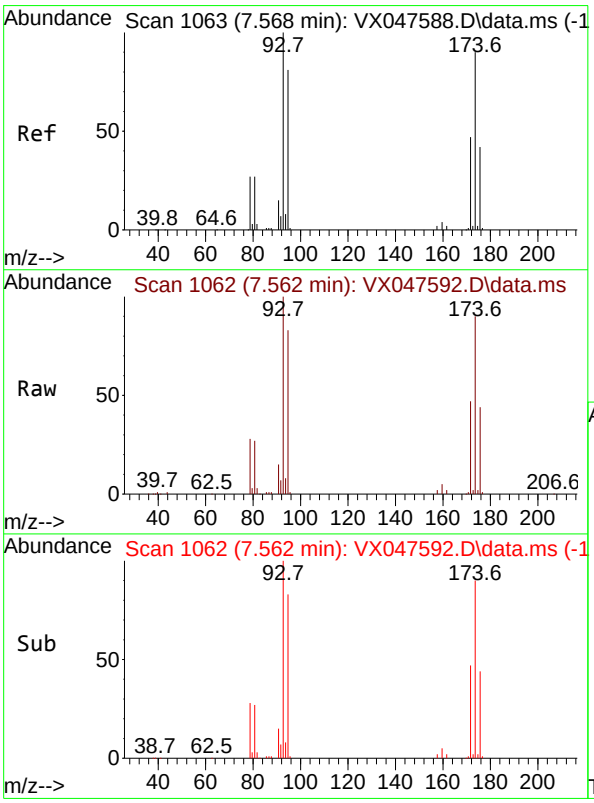
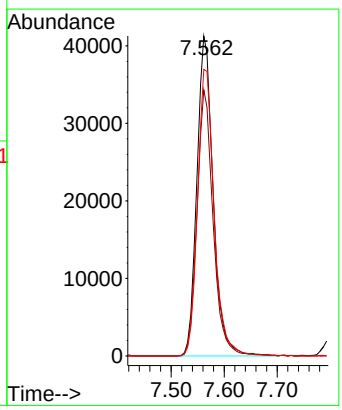
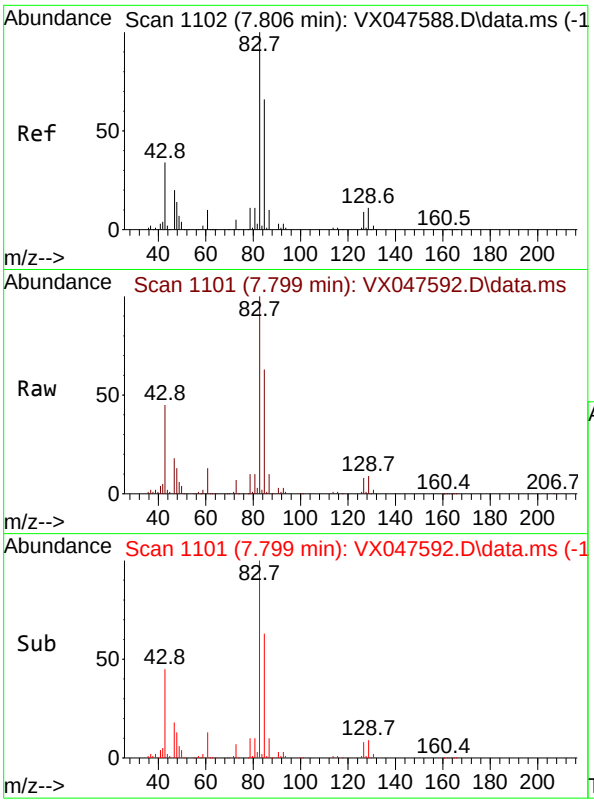


#46
Dibromomethane
Concen: 47.976 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 93 Resp: 88297

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	91.3	71.6	107.4

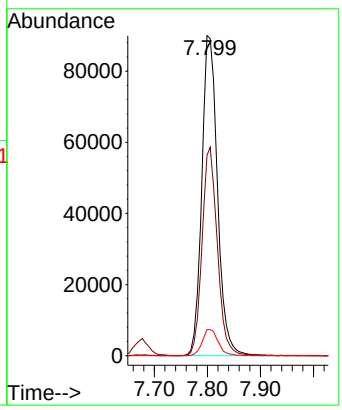




#47
Bromodichloromethane
Concen: 48.769 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 18521

Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.5	78.7
127	8.1	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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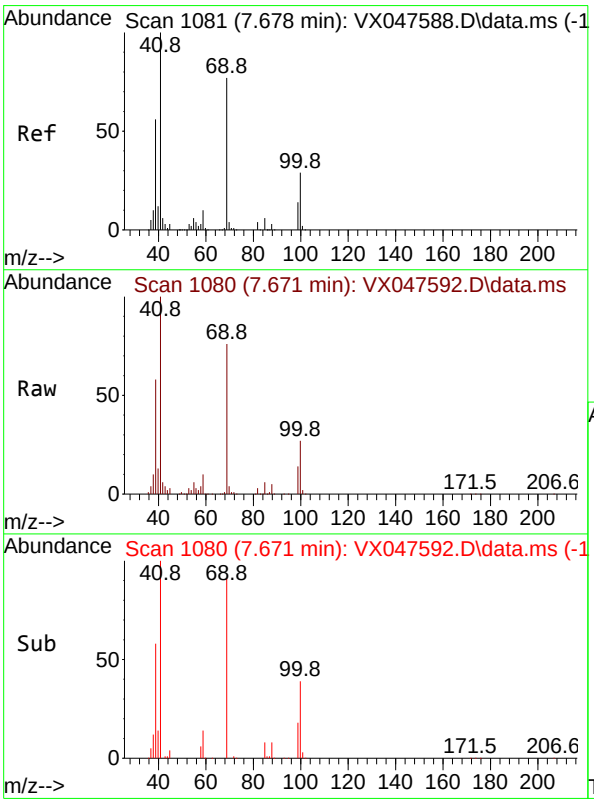
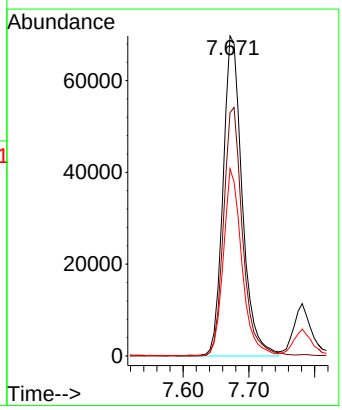
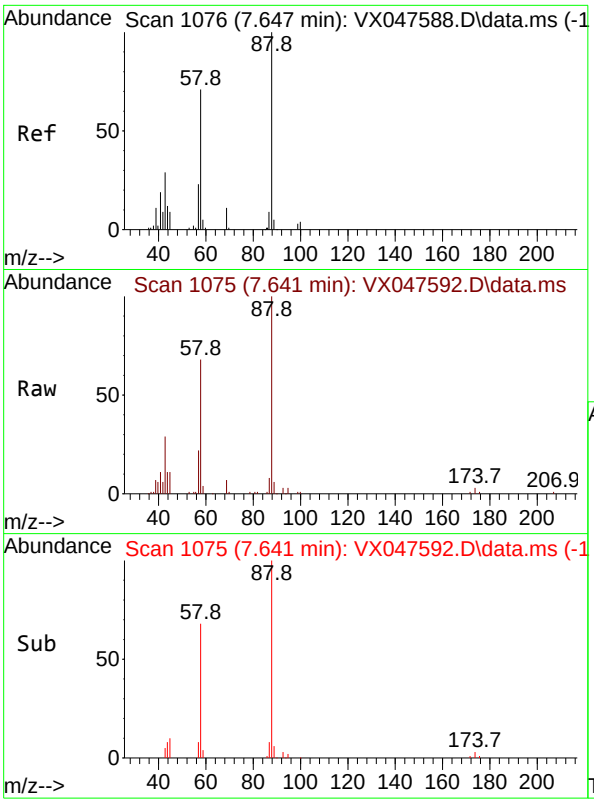


#48
Methyl methacrylate
Concen: 49.757 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 141532

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	56.4	45.8	68.6

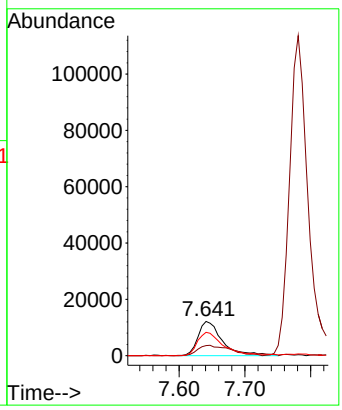




#49
1,4-Dioxane
Concen: 1089.520 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 88 Resp: 3132

Ion	Ratio	Lower	Upper
88	100		
43	40.9	30.2	45.2
58	74.1	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
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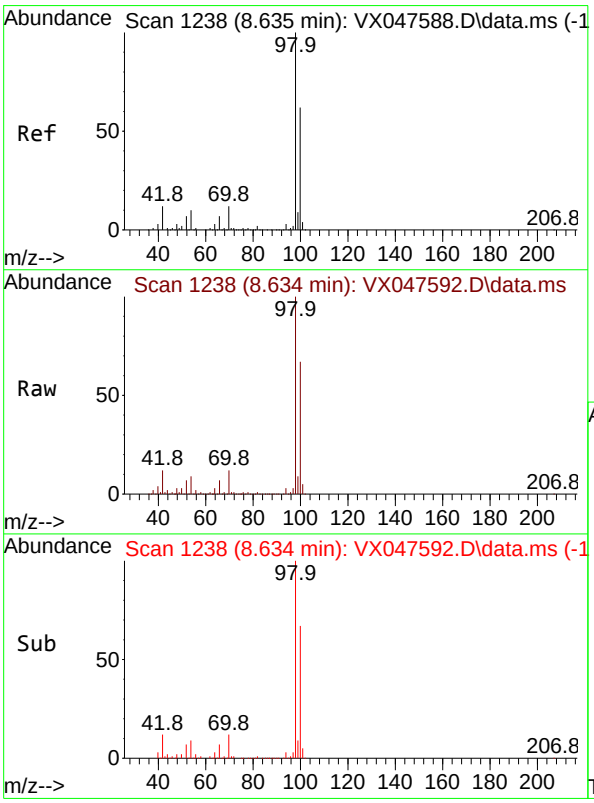
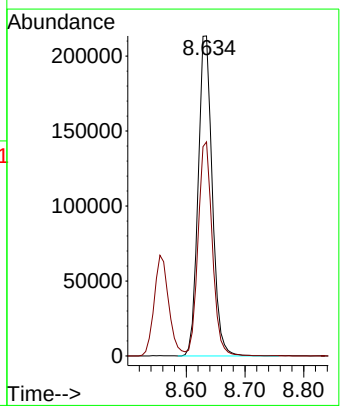
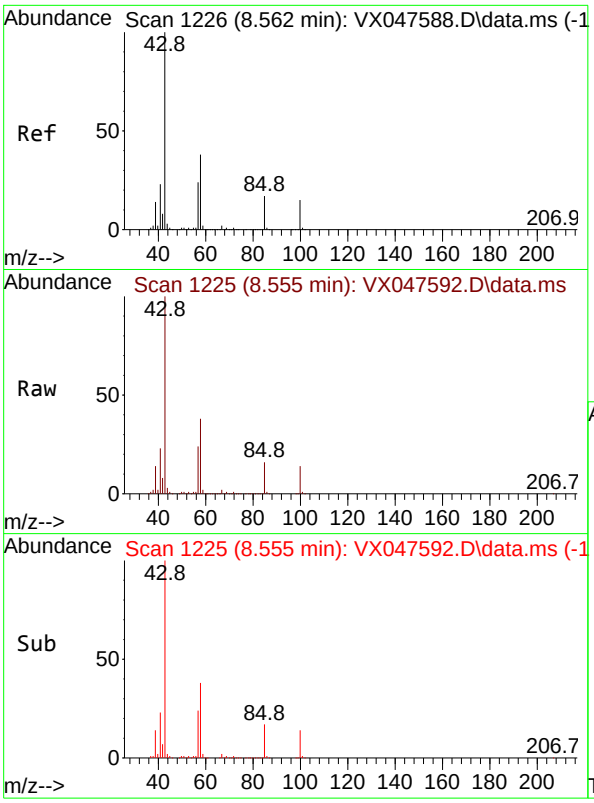


#50
Toluene-d8
Concen: 46.411 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 98 Resp: 357393

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 255.752 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 80975

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

Instrument :
MSVOA_X
ClientSampleId :
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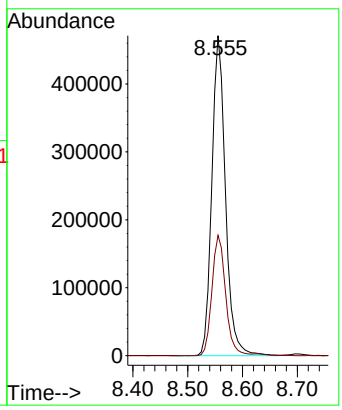
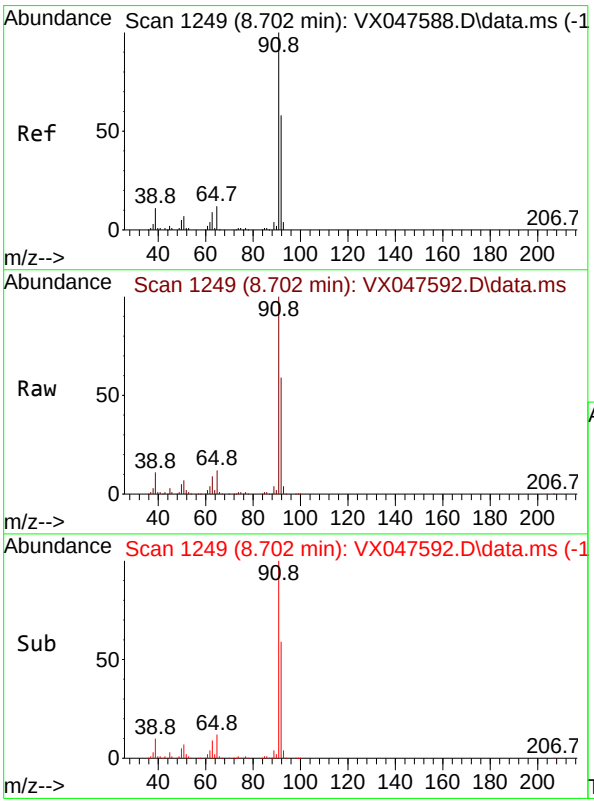
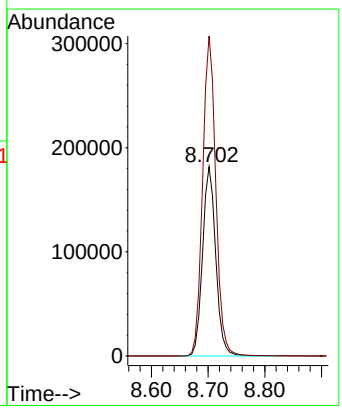


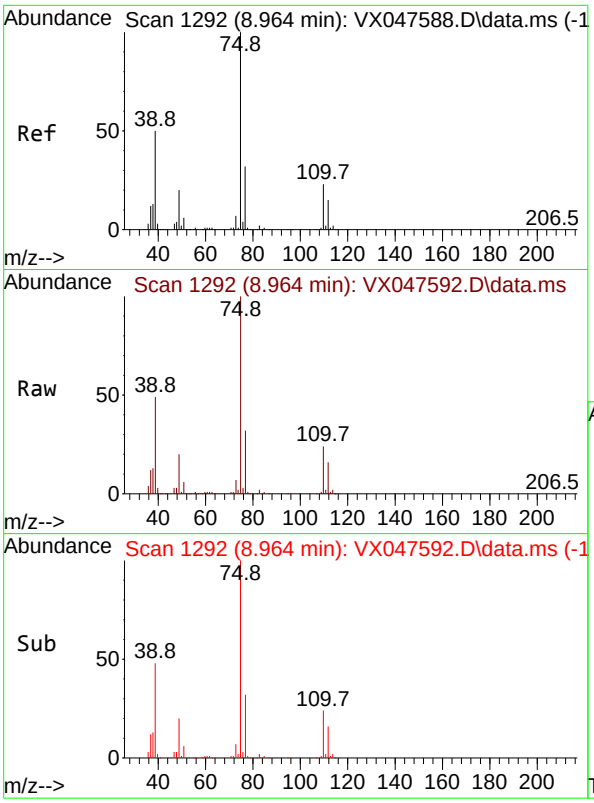


#52
Toluene
Concen: 48.130 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 92 Resp: 292879

Ion	Ratio	Lower	Upper
92	100		
91	169.4	137.1	205.7

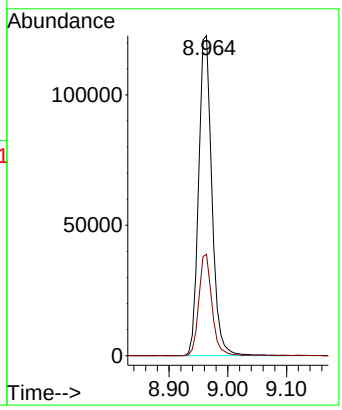




#53
t-1,3-Dichloropropene
Concen: 49.527 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 19186

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2



Instrument :
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ClientSampleId :
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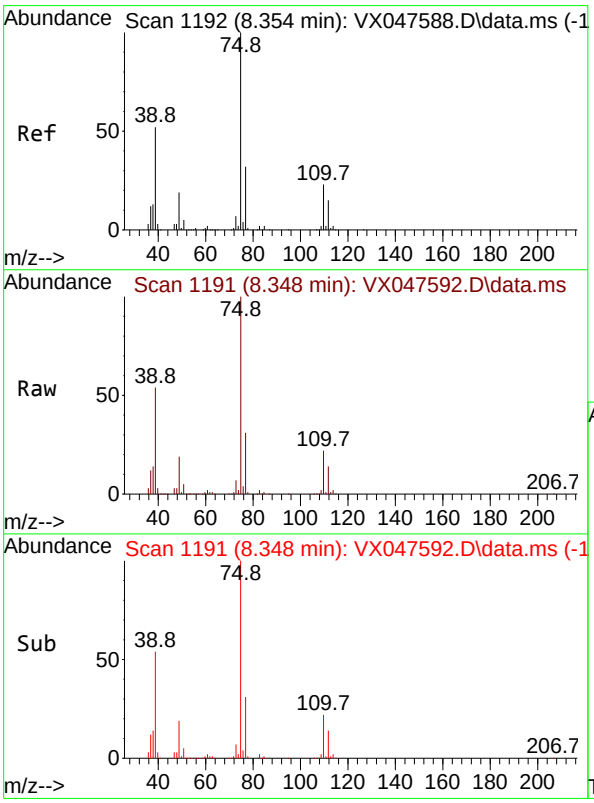
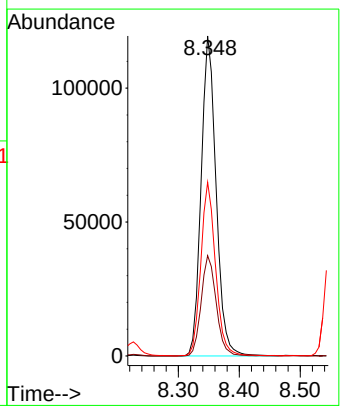
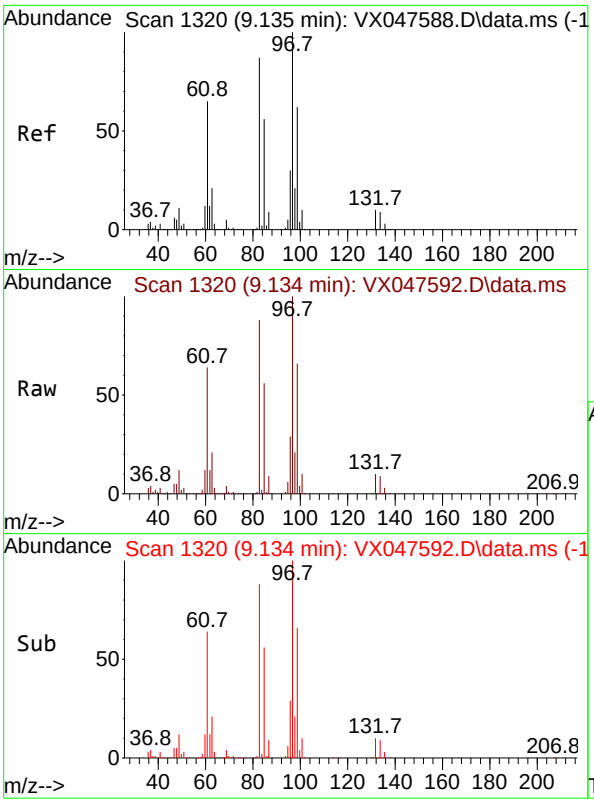


#54
cis-1,3-Dichloropropene
Concen: 49.257 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 203954

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.6
39	54.2	41.4	62.2

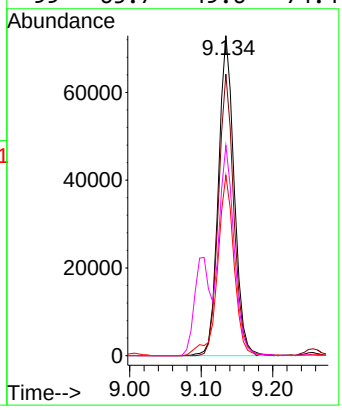




#55
1,1,2-Trichloroethane
Concen: 47.772 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 97 Resp: 11209

Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.6	104.4
85	56.4	45.0	67.6
99	65.7	49.6	74.4



Instrument :
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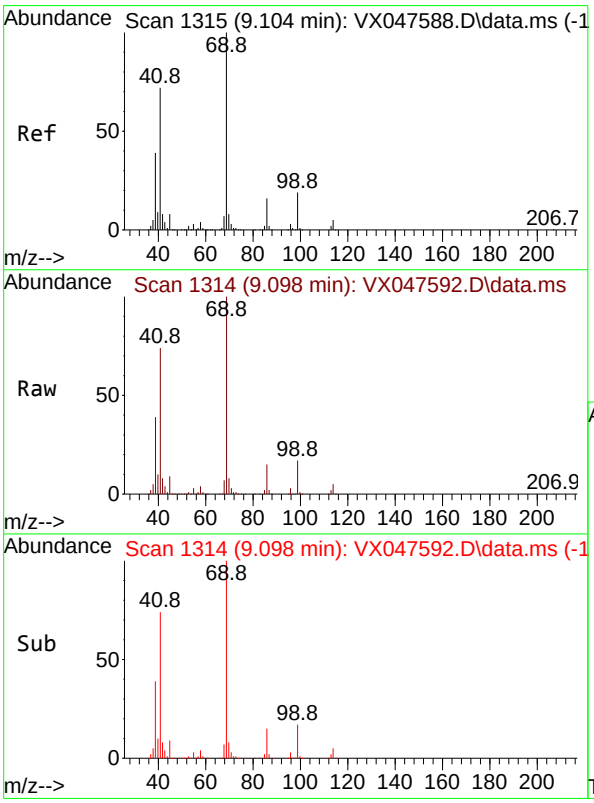
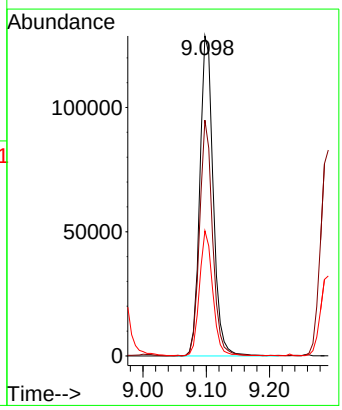
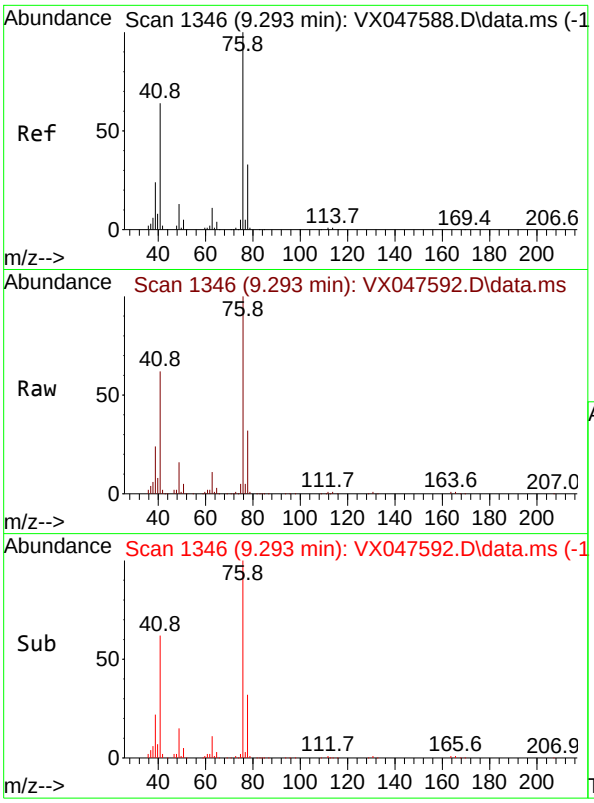


#56
Ethyl methacrylate
Concen: 51.490 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 69 Resp: 189741

Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3

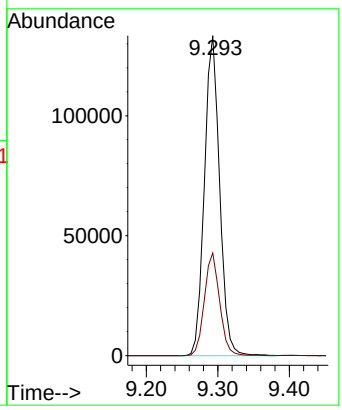




#57
1,3-Dichloropropane
Concen: 48.894 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 76 Resp: 19707

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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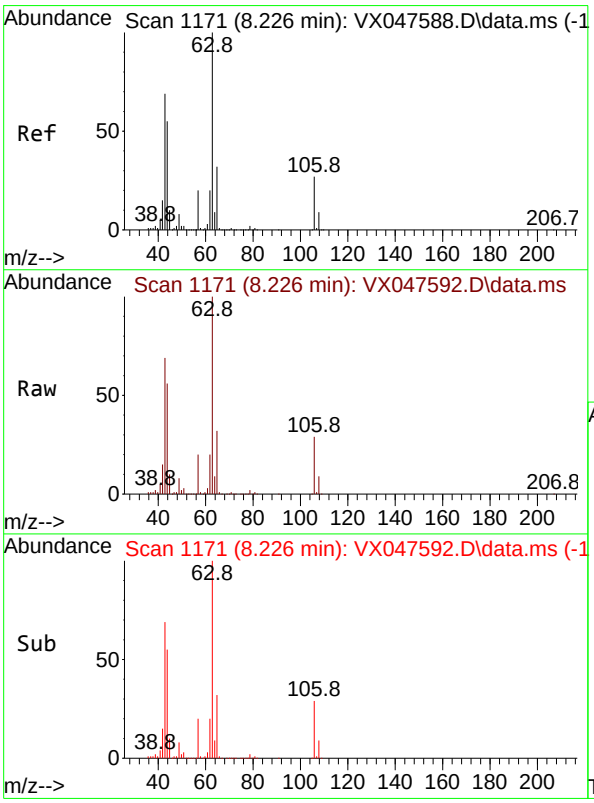
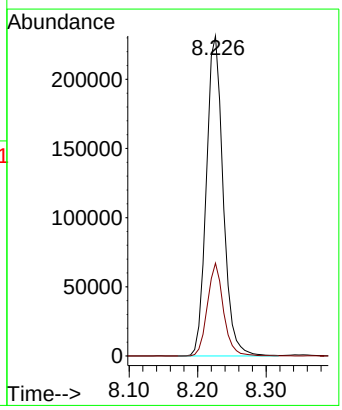
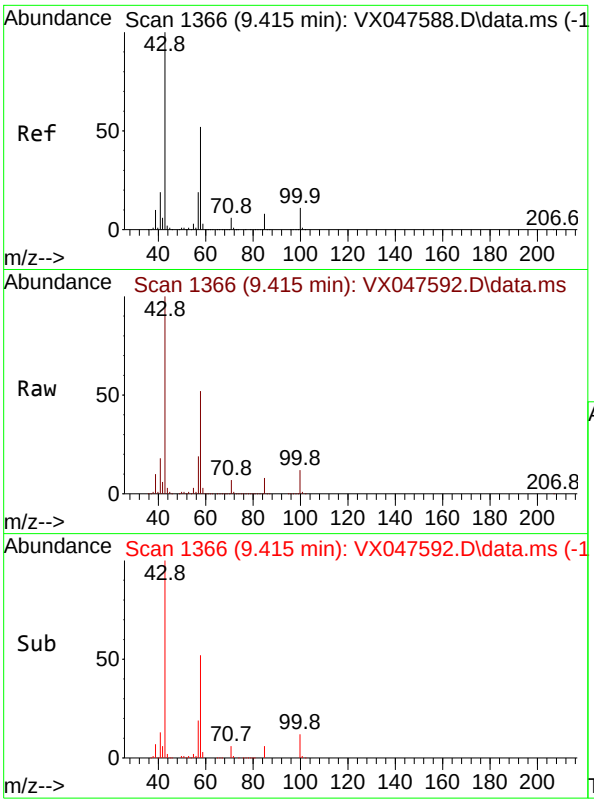


#58
2-Chloroethyl Vinyl ether
Concen: 225.562 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 394205

Ion	Ratio	Lower	Upper
63	100		
106	27.8	21.9	32.9





#59
2-Hexanone
Concen: 253.126 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 57559

Ion	Ratio	Lower	Upper
43	100		
58	52.6	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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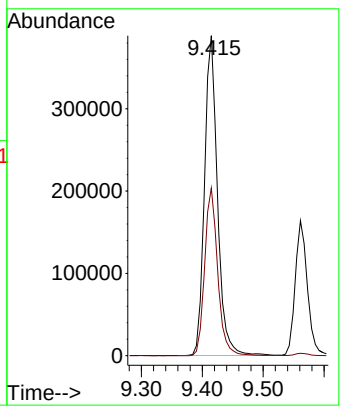
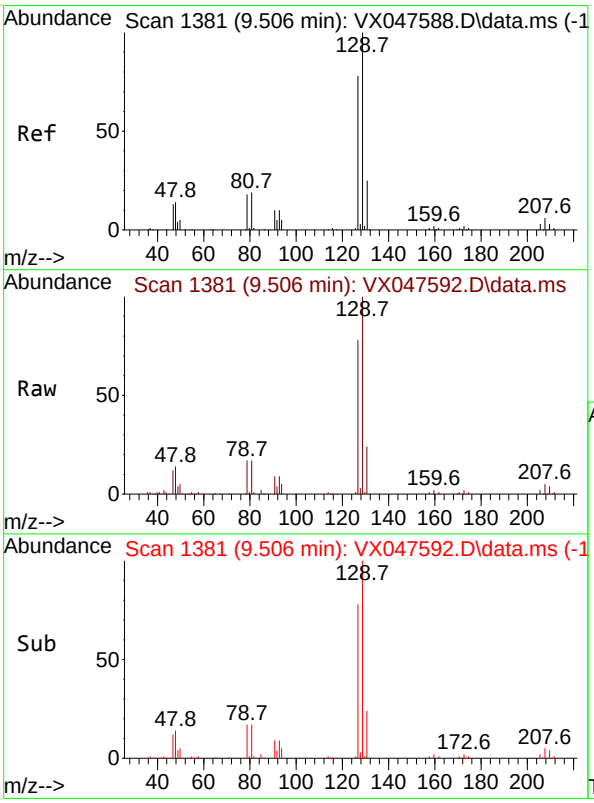
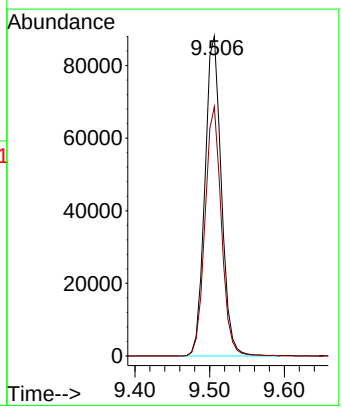


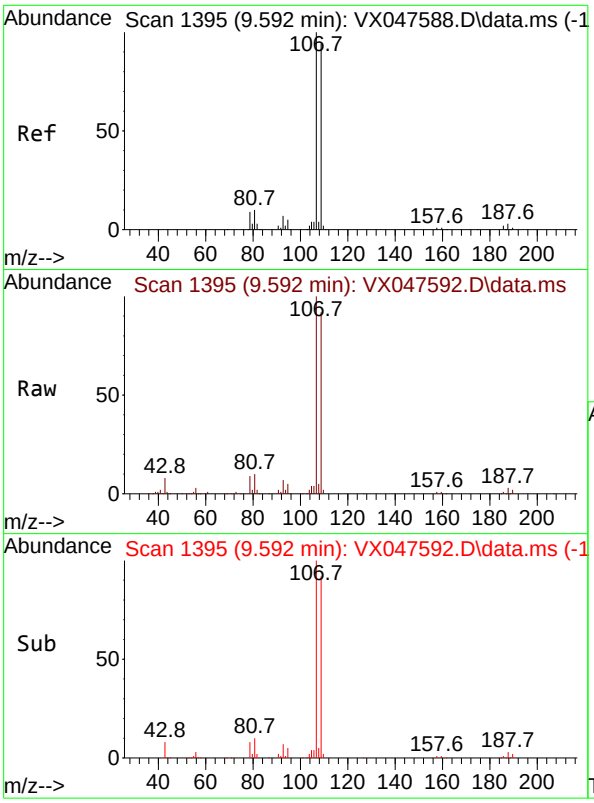


#60
Dibromochloromethane
Concen: 49.824 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:129 Resp: 134704

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.4	115.2





#61
1,2-Dibromoethane
Concen: 49.297 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:107 Resp: 11781

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.3	112.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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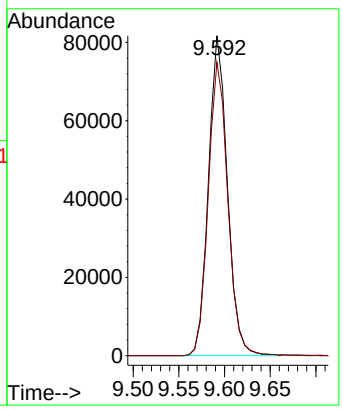
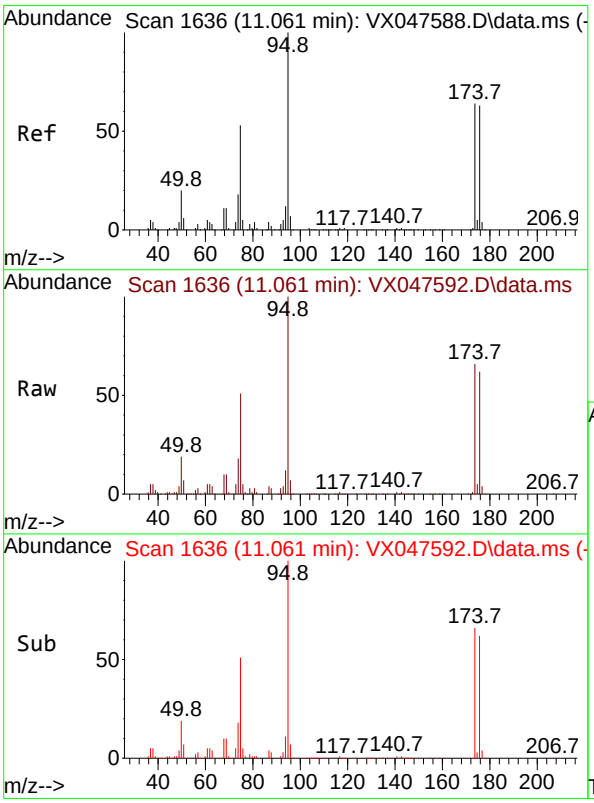
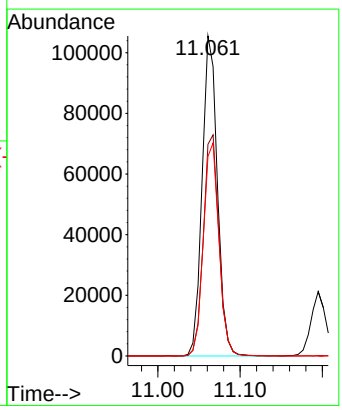


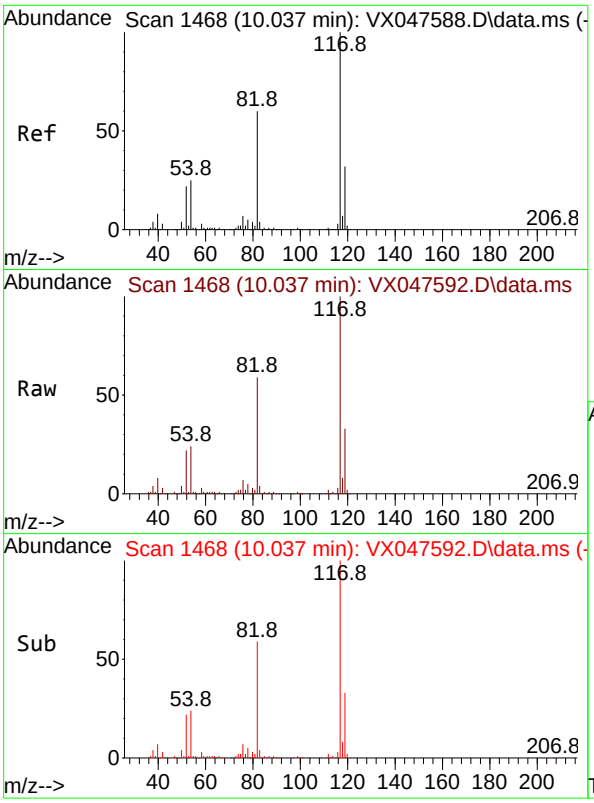


#62
4-Bromofluorobenzene
Concen: 46.520 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 95 Resp: 135957

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	141.6
176	68.0	0.0	138.4

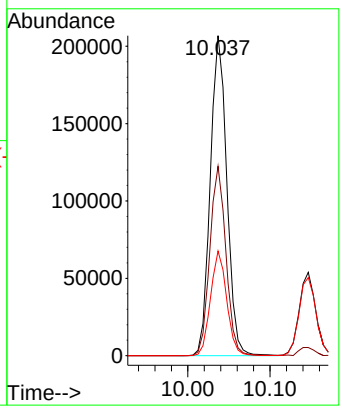




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 28866

Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.8	71.6
119	32.7	25.2	37.8



Instrument :
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ClientSampleId :
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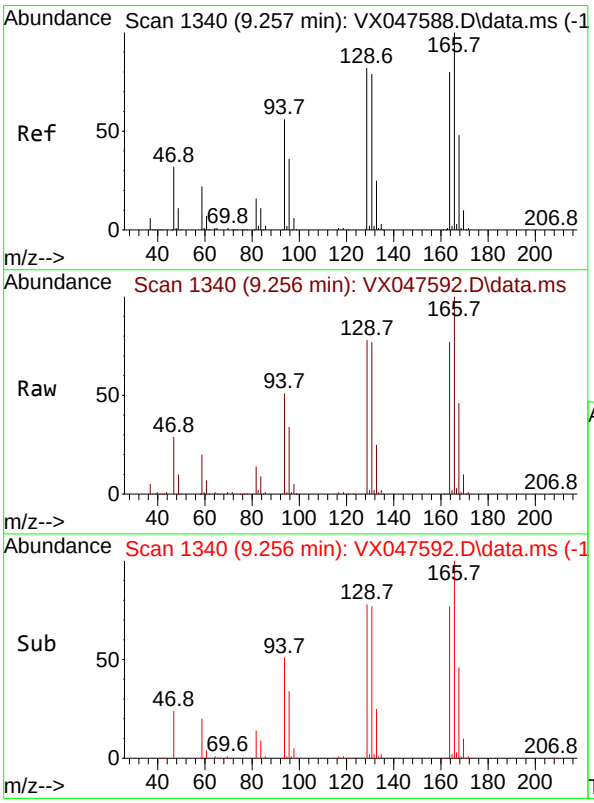
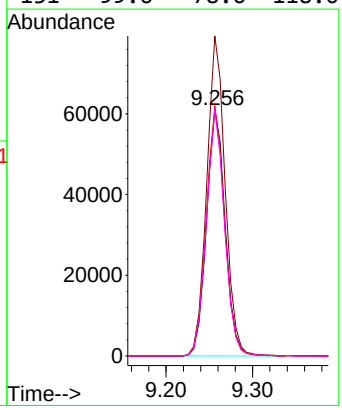
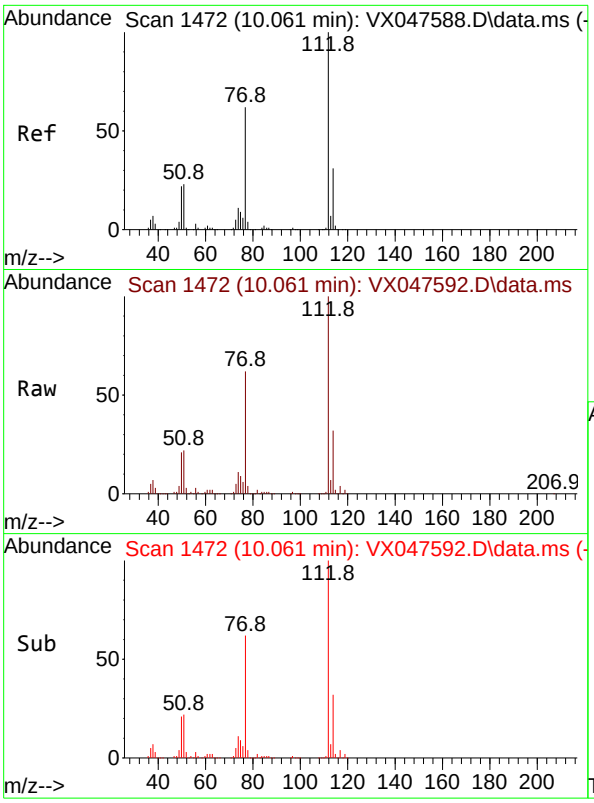


#64
Tetrachloroethene
Concen: 48.296 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:164 Resp: 90881

Ion	Ratio	Lower	Upper
164	100		
166	129.8	100.2	150.2
129	101.3	81.8	122.6
131	99.6	78.6	118.0

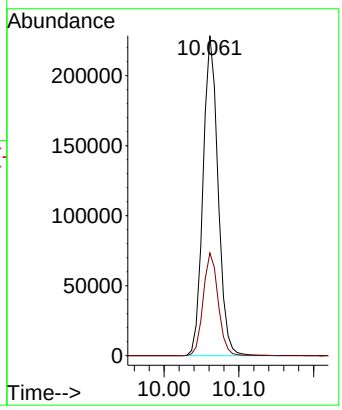




#65
Chlorobenzene
Concen: 48.549 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:112 Resp: 31837

Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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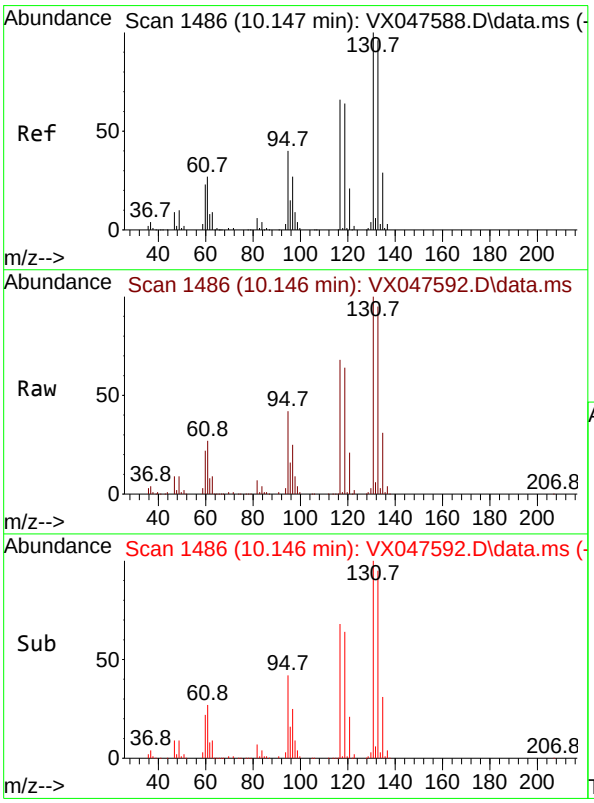
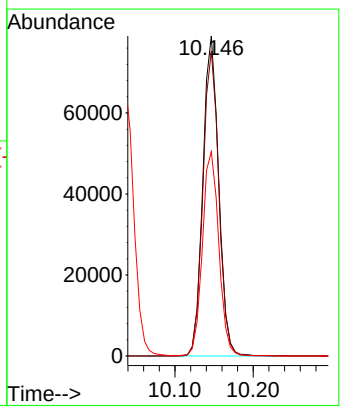
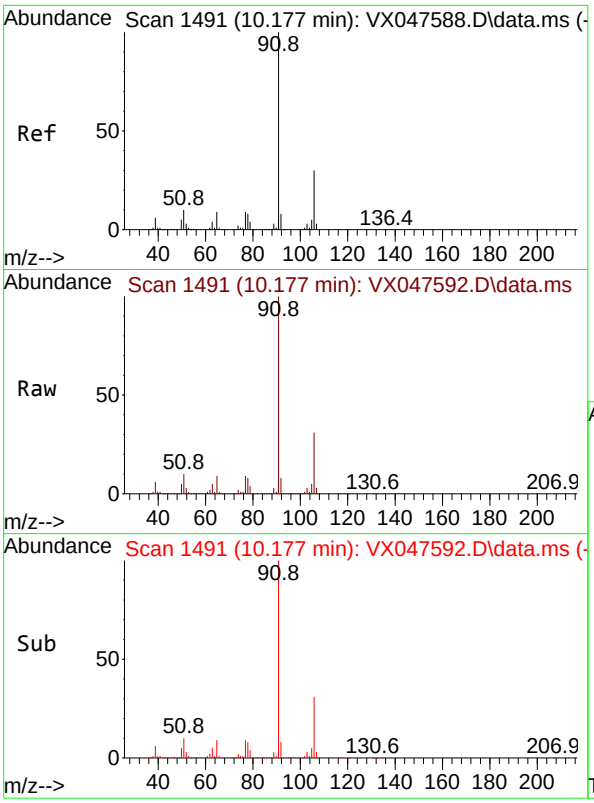


#66
1,1,1,2-Tetrachloroethane
Concen: 48.794 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:131 Resp: 110416

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	66.3	32.0	96.0

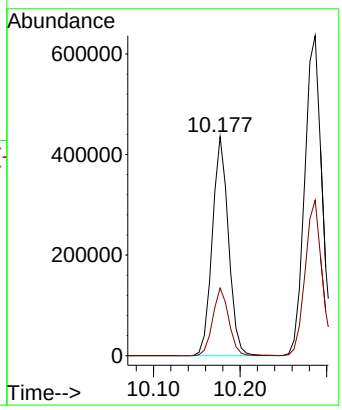




#67
Ethyl Benzene
Concen: 49.813 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 56363

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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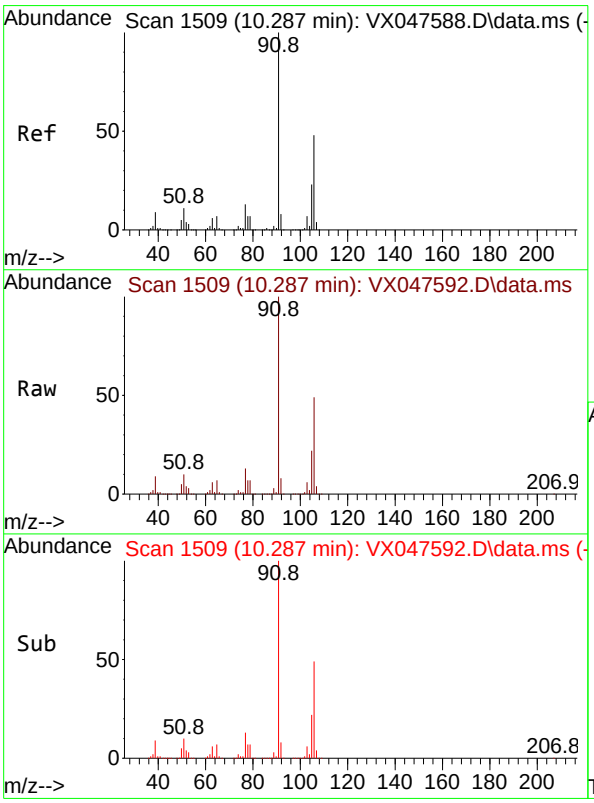
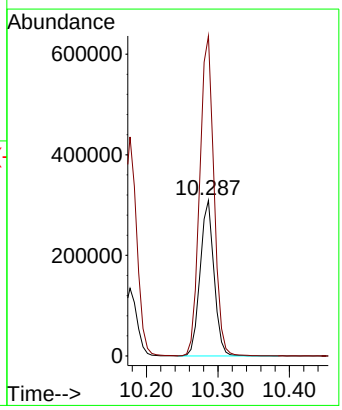
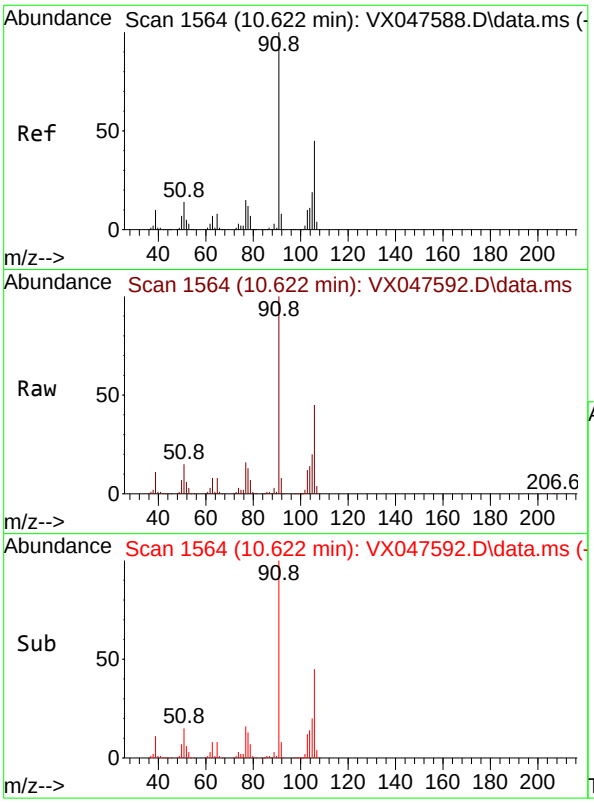


#68
m/p-Xylenes
Concen: 98.956 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:106 Resp: 416757

Ion	Ratio	Lower	Upper
106	100		
91	211.1	167.8	251.8

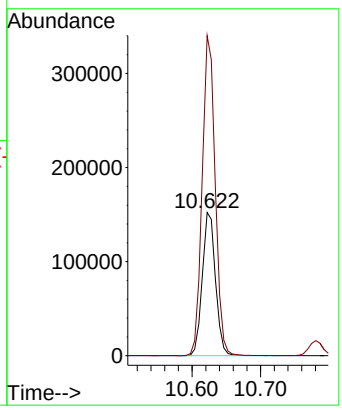




#69
o-Xylene
Concen: 50.159 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:106 Resp: 20432

Ion	Ratio	Lower	Upper
106	100		
91	221.0	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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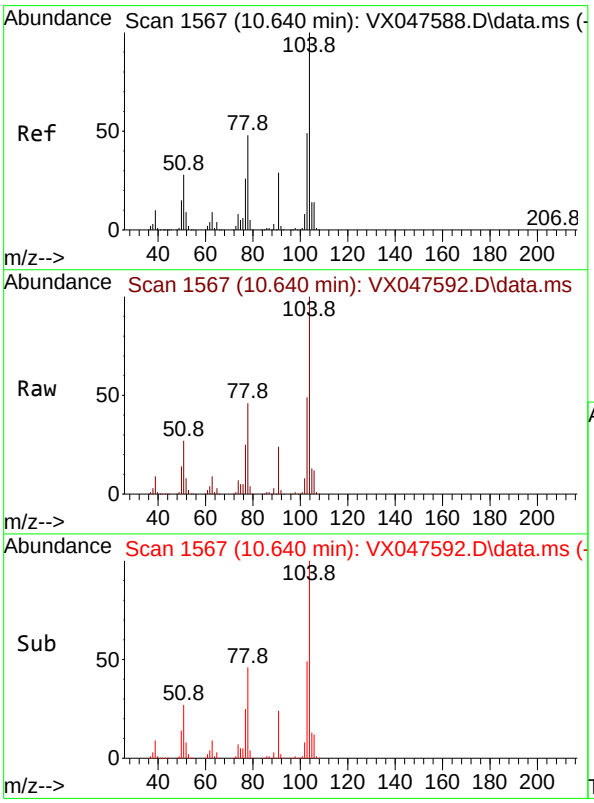
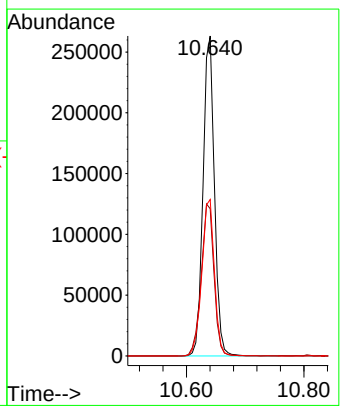
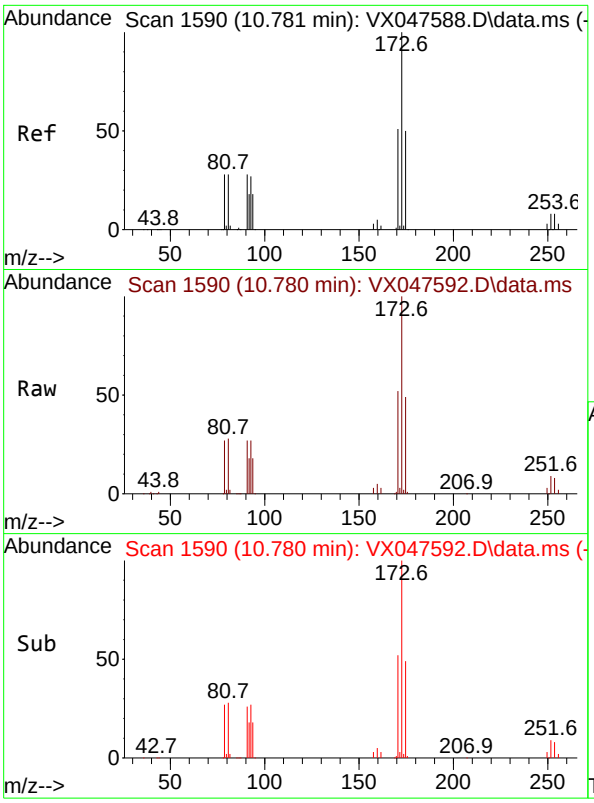


#70
Styrene
Concen: 49.536 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:104 Resp: 353567

Ion	Ratio	Lower	Upper
104	100		
78	53.4	43.1	64.7
103	54.3	43.1	64.7

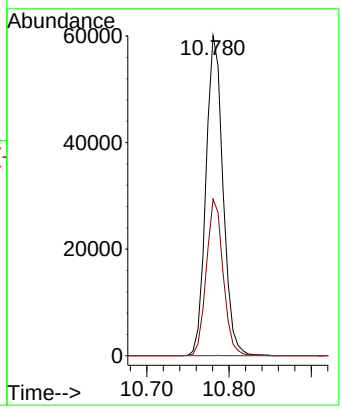




#71
Bromoform
Concen: 51.207 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:173 Resp: 8652

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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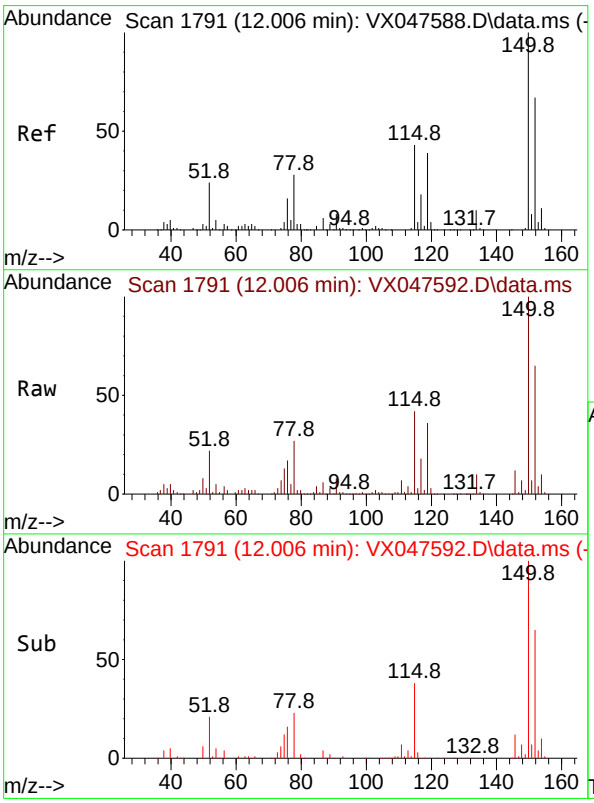
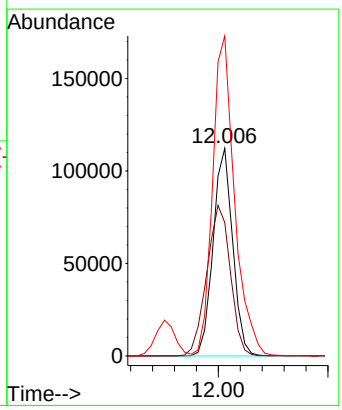
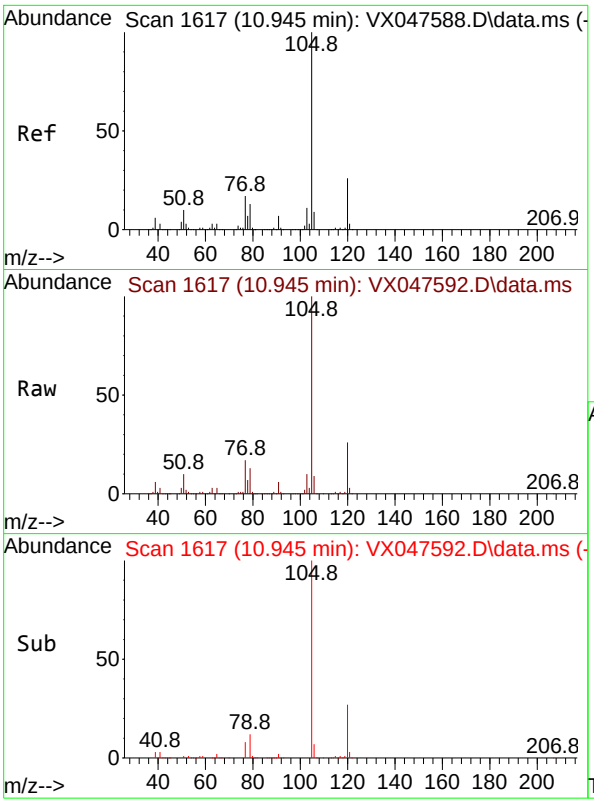


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:152 Resp: 139252

Ion	Ratio	Lower	Upper
152	100		
115	87.5	44.9	134.5
150	173.5	0.0	352.0

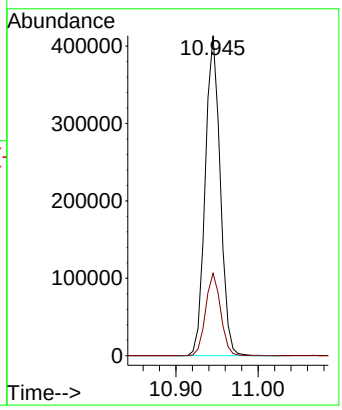




#73
Isopropylbenzene
Concen: 49.479 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 52382

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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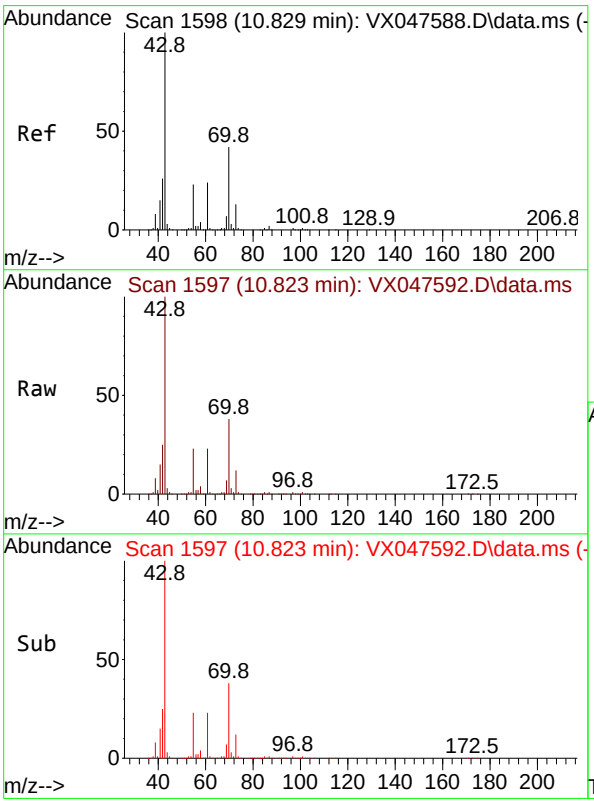
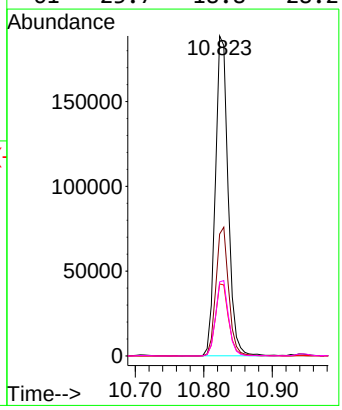
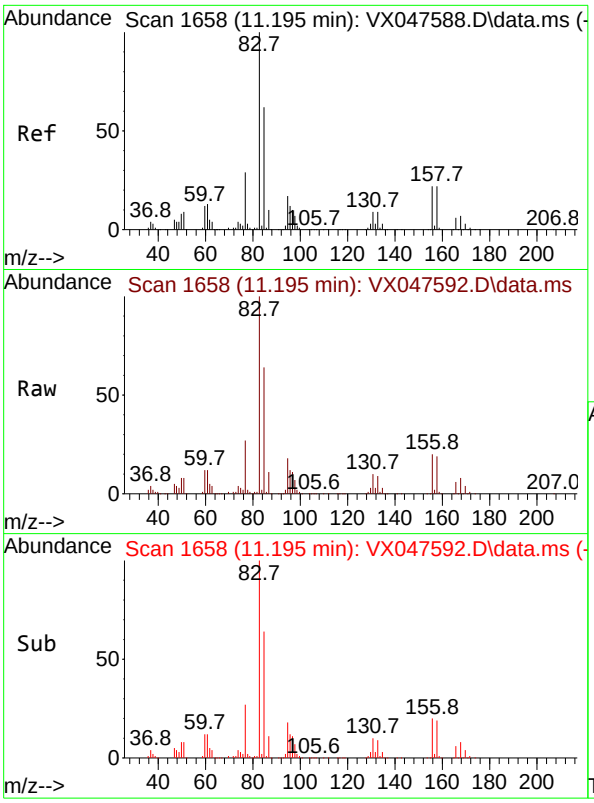


#74
N-amyl acetate
Concen: 50.375 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 243198

Ion	Ratio	Lower	Upper
43	100		
70	40.2	32.0	48.0
55	23.2	18.9	28.3
61	23.7	18.8	28.2

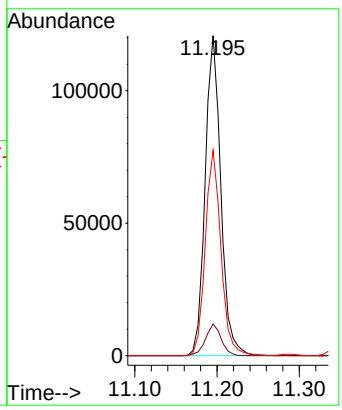




#75
1,1,2,2-Tetrachloroethane
Concen: 49.851 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 15967

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
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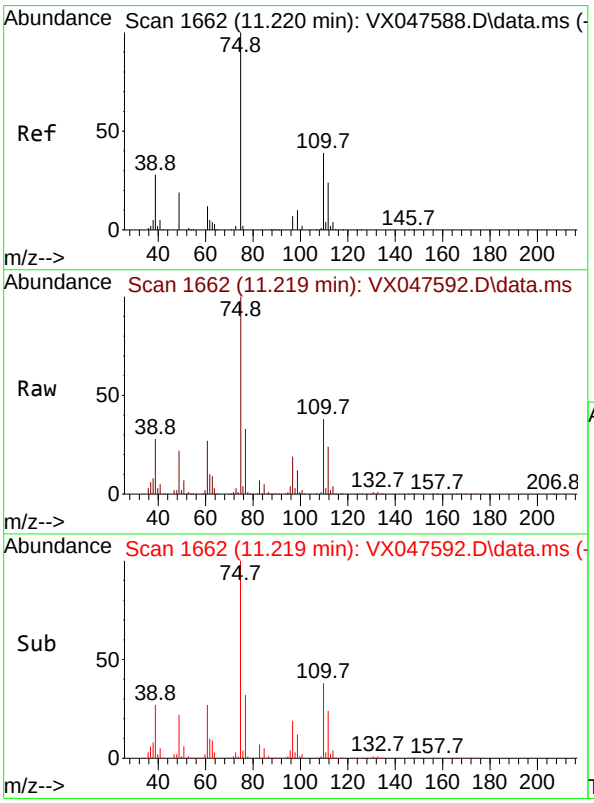
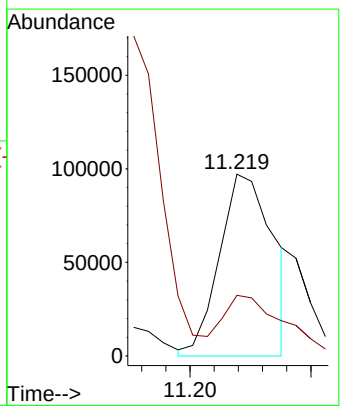
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

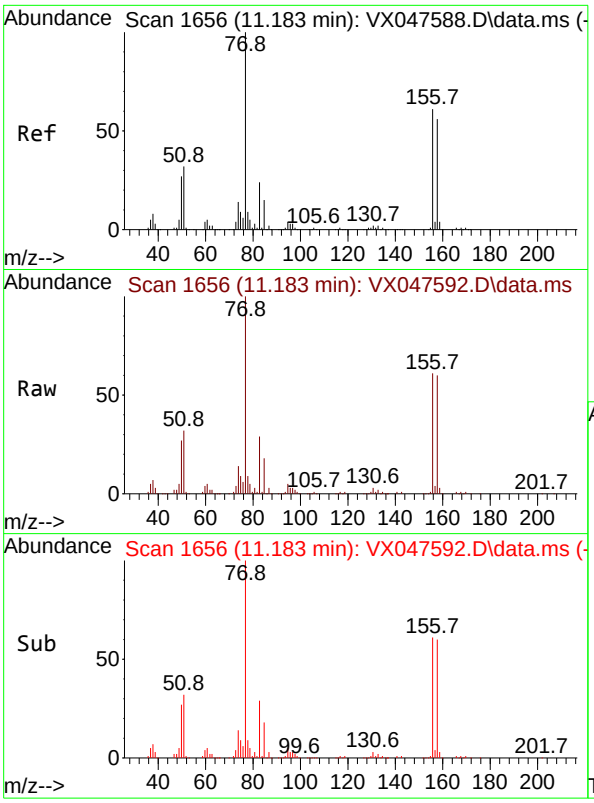


#76
1,2,3-Trichloropropane
Concen: 53.124 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 149779

Ion	Ratio	Lower	Upper
75	100		
77	38.0	18.8	56.4

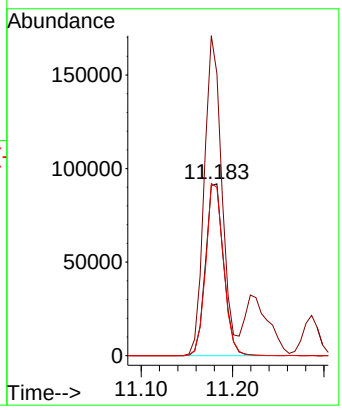




#77
Bromobenzene
Concen: 48.173 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:156 Resp: 12561

Ion	Ratio	Lower	Upper
156	100		
77	182.2	89.7	269.1
158	99.0	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
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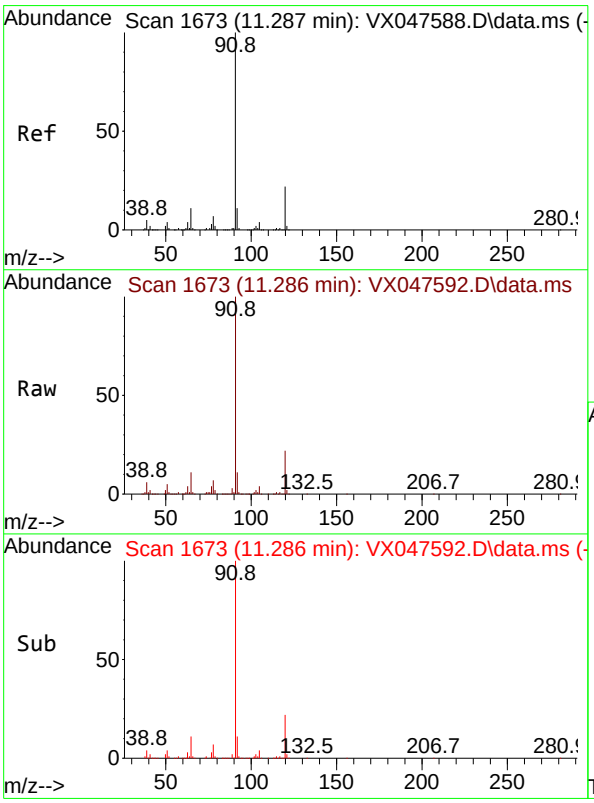
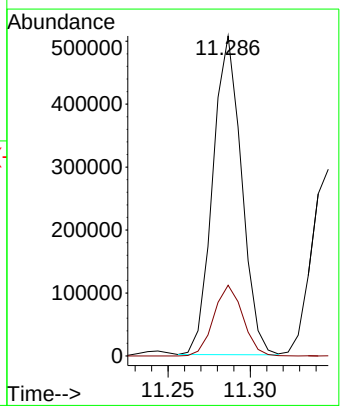
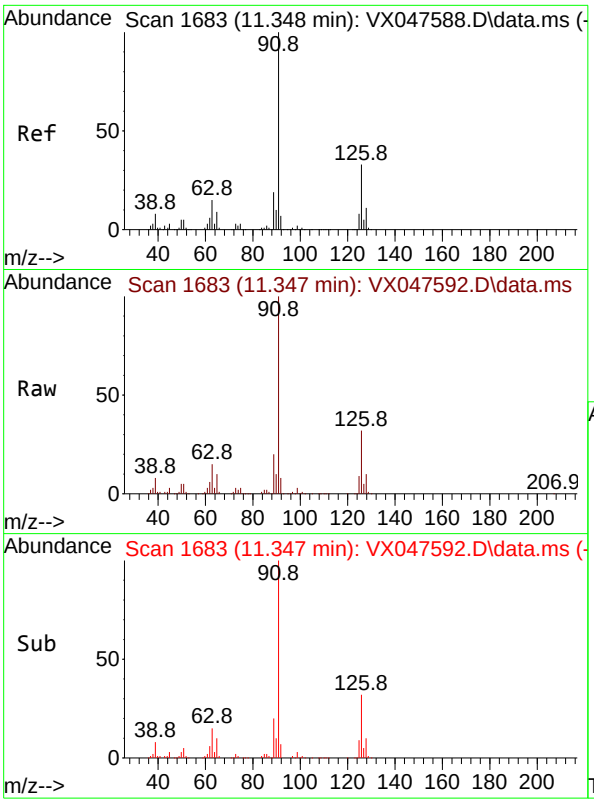


#78
n-propylbenzene
Concen: 49.295 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 616928

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1

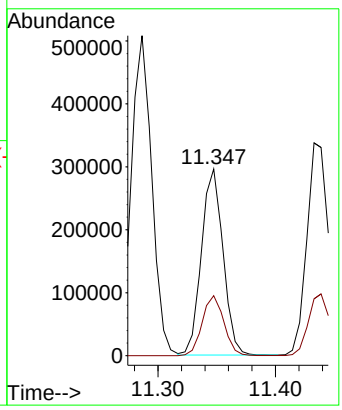




#79
2-Chlorotoluene
Concen: 49.117 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 37648

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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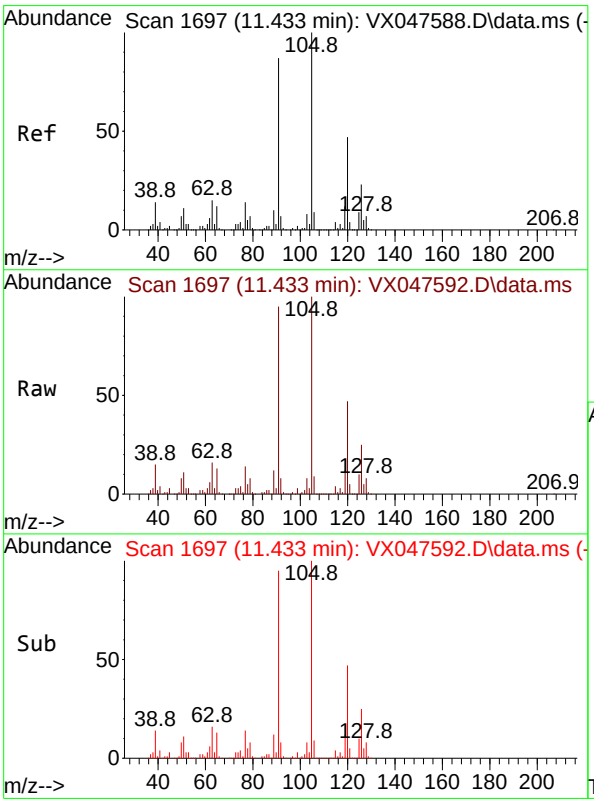
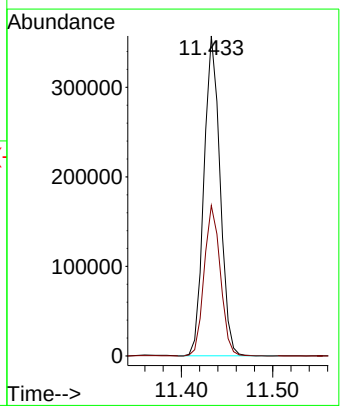
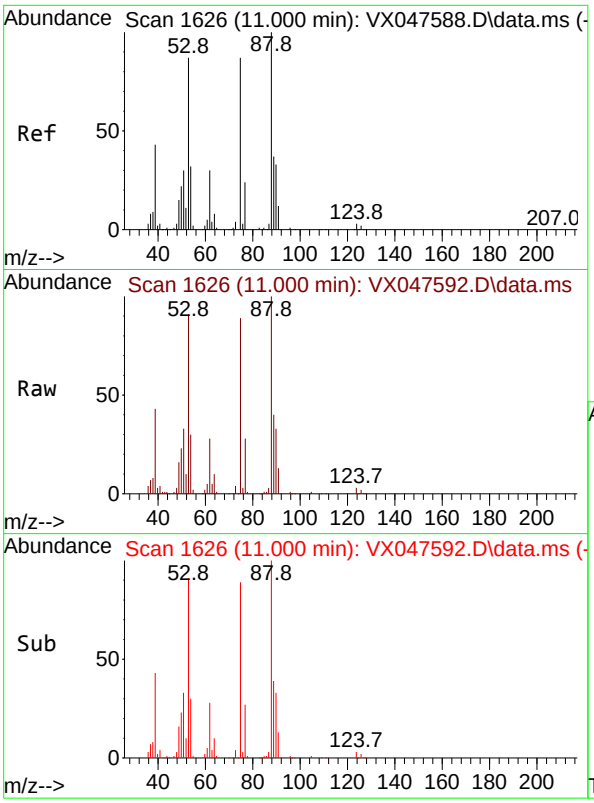


#80
1,3,5-Trimethylbenzene
Concen: 50.055 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 435375

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.6	70.8

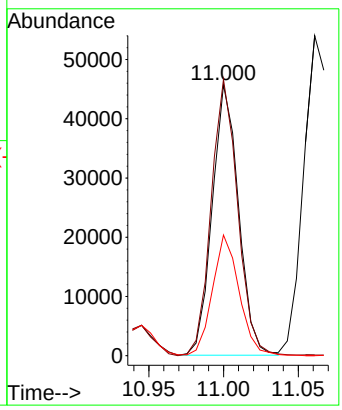




#81
trans-1,4-Dichloro-2-butene
Concen: 50.543 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 5588

Ion	Ratio	Lower	Upper
75	100		
53	103.4	83.4	125.2
89	45.4	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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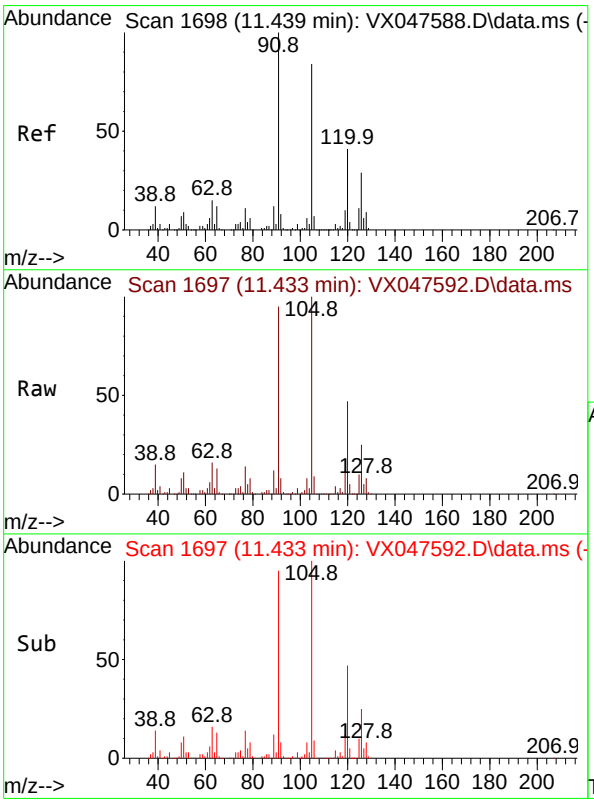
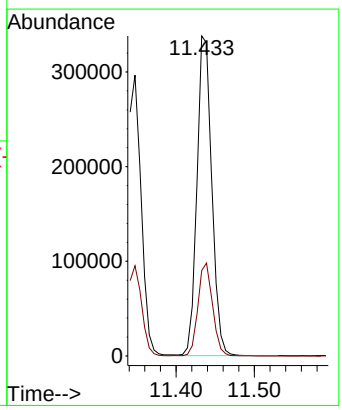
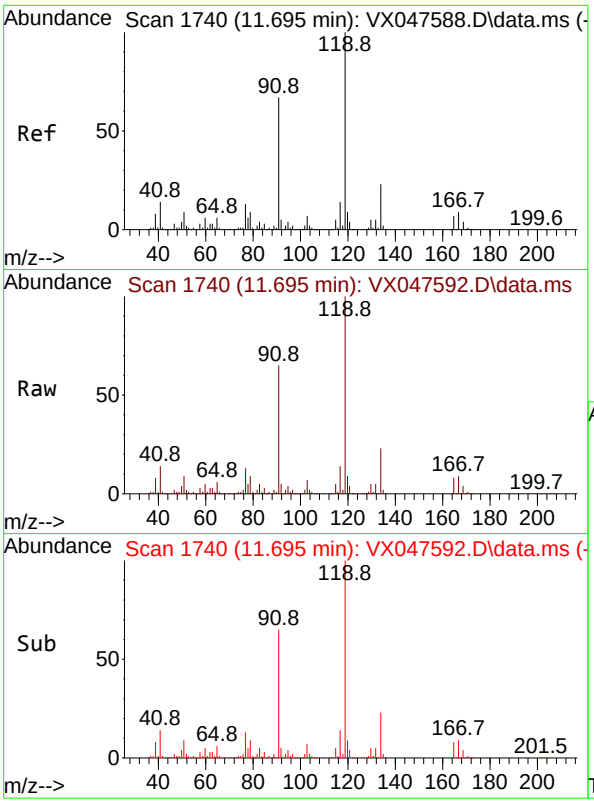


#82
4-Chlorotoluene
Concen: 49.164 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 445075

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6

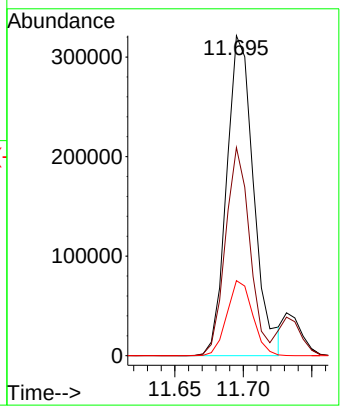




#83
tert-Butylbenzene
Concen: 49.679 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:119 Resp: 44234

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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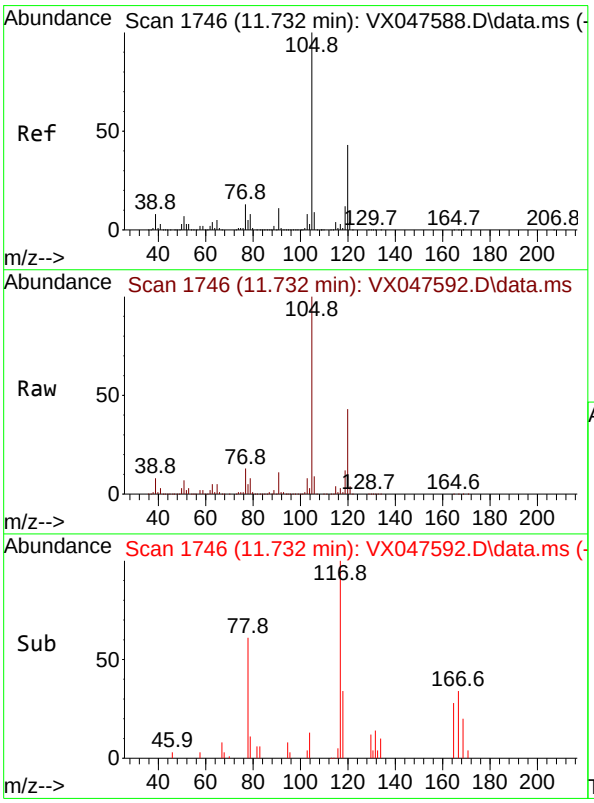
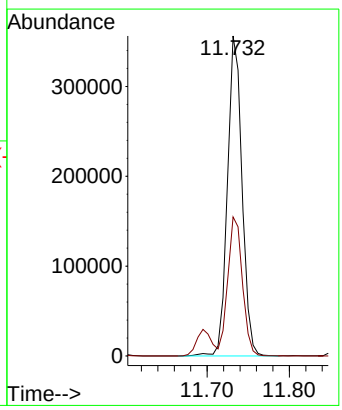
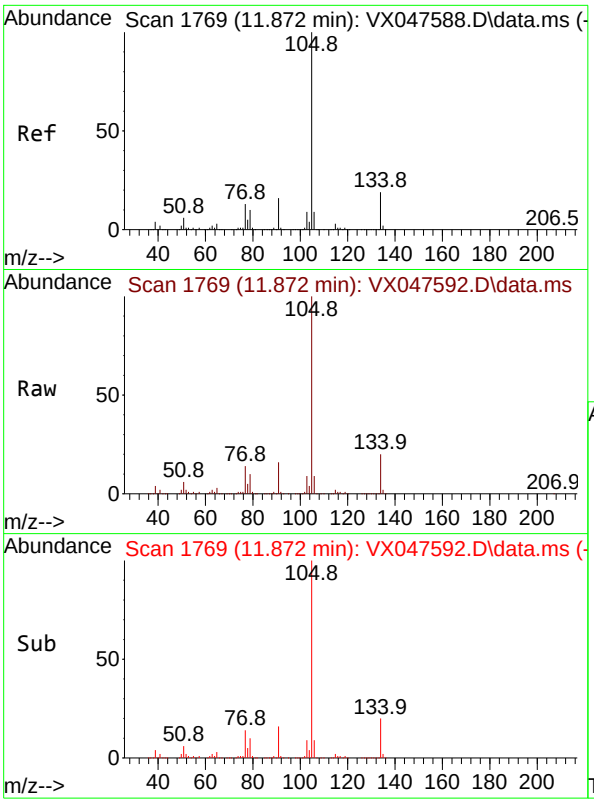


#84
1,2,4-Trimethylbenzene
Concen: 49.911 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 440134

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.1

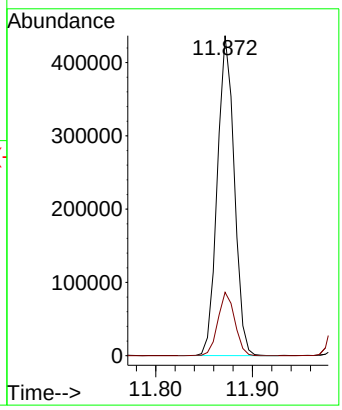




#85
sec-Butylbenzene
Concen: 50.100 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 52986

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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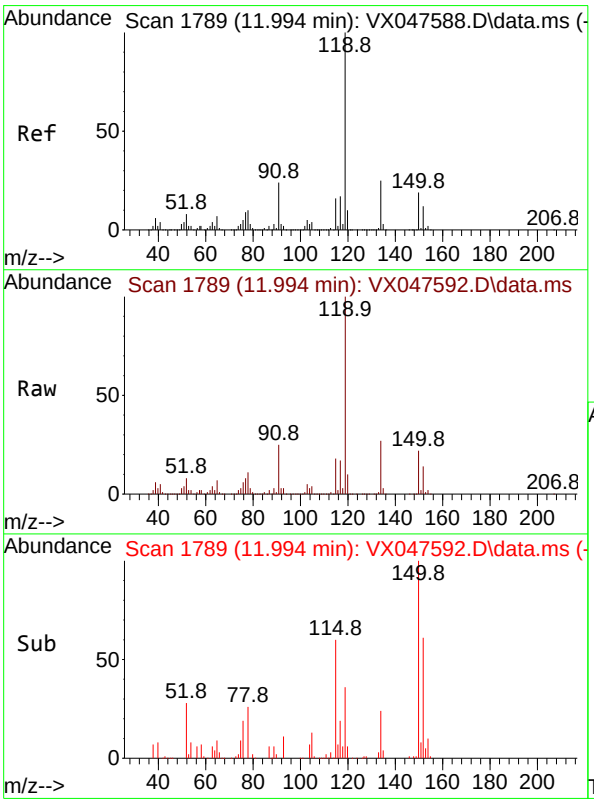
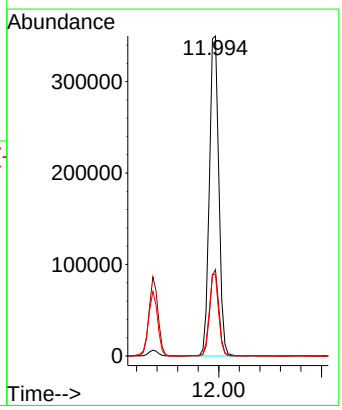
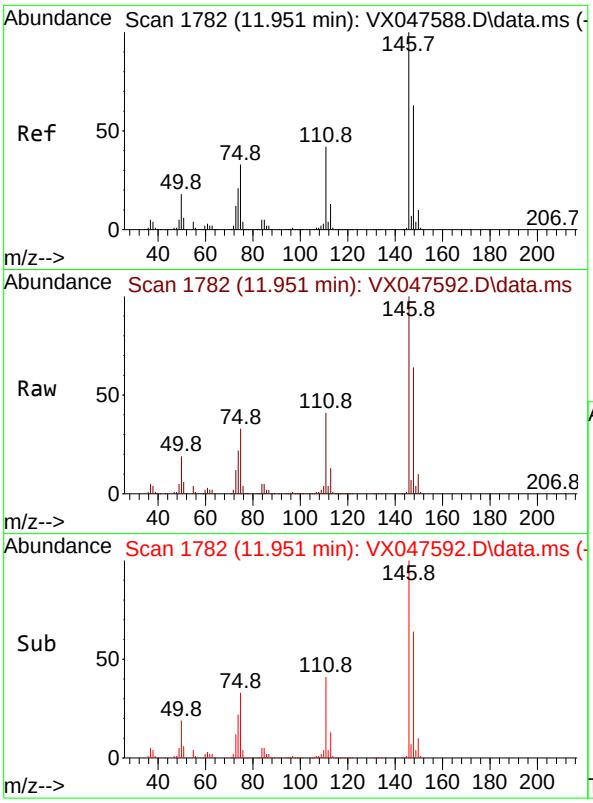


#86
p-Isopropyltoluene
Concen: 49.861 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:119 Resp: 446441

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.4	12.6	37.6

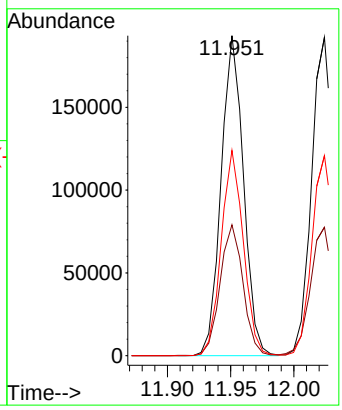




#87
1,3-Dichlorobenzene
Concen: 49.014 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 23738

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.5	64.5
148	63.5	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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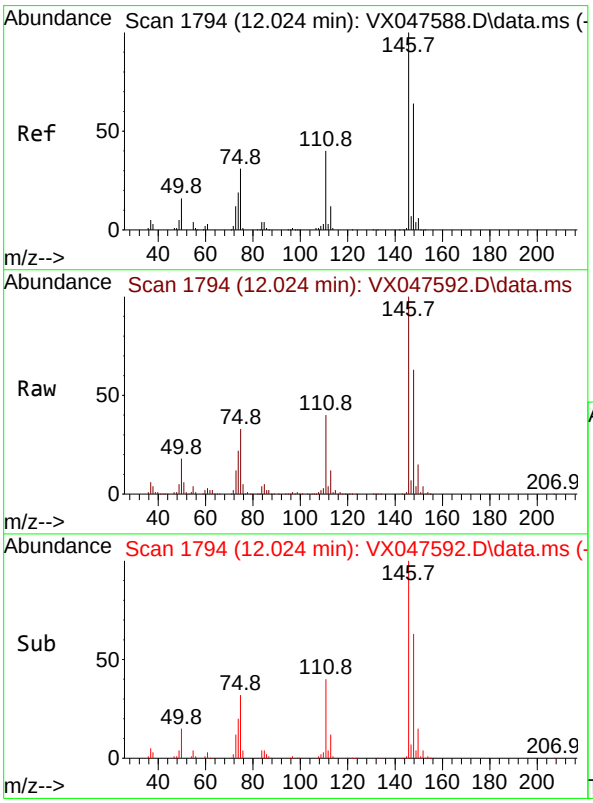
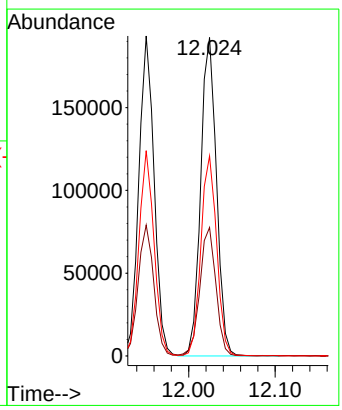
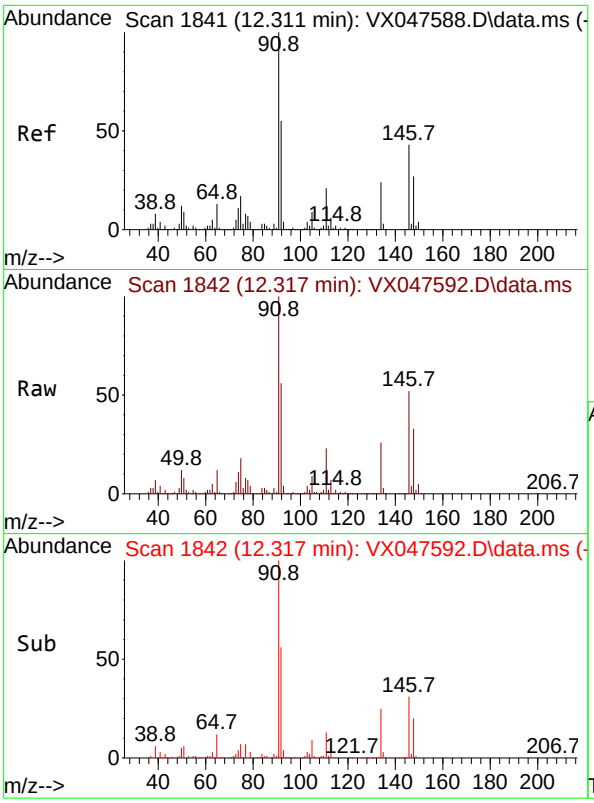


#88
1,4-Dichlorobenzene
Concen: 49.011 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 243618

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	62.7	31.7	95.1

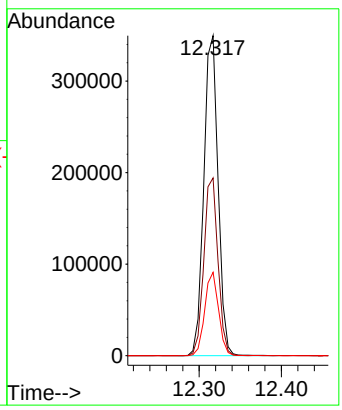




#89
n-Butylbenzene
Concen: 50.752 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 42047

Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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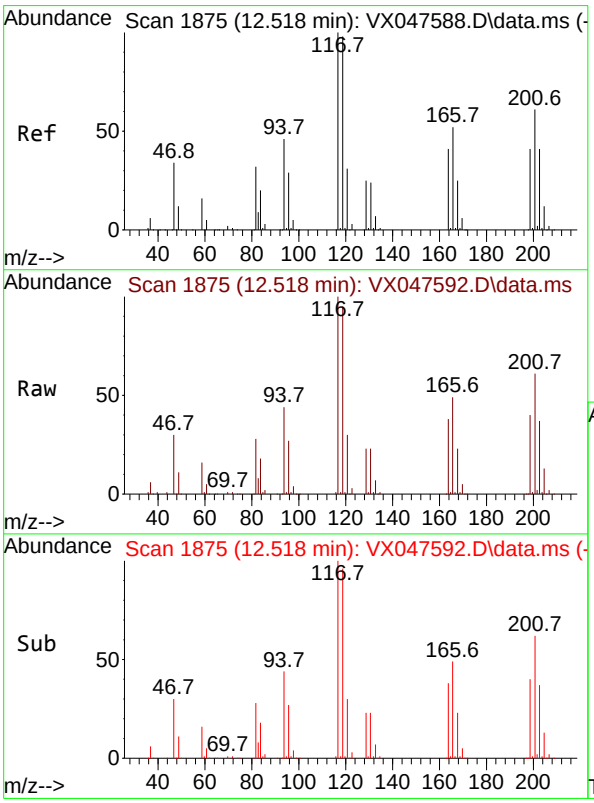
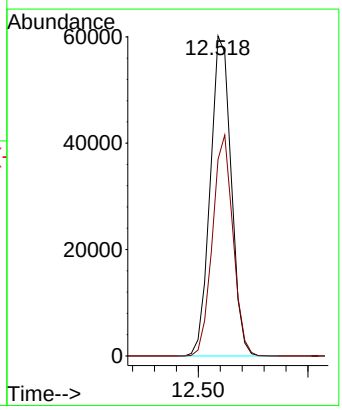
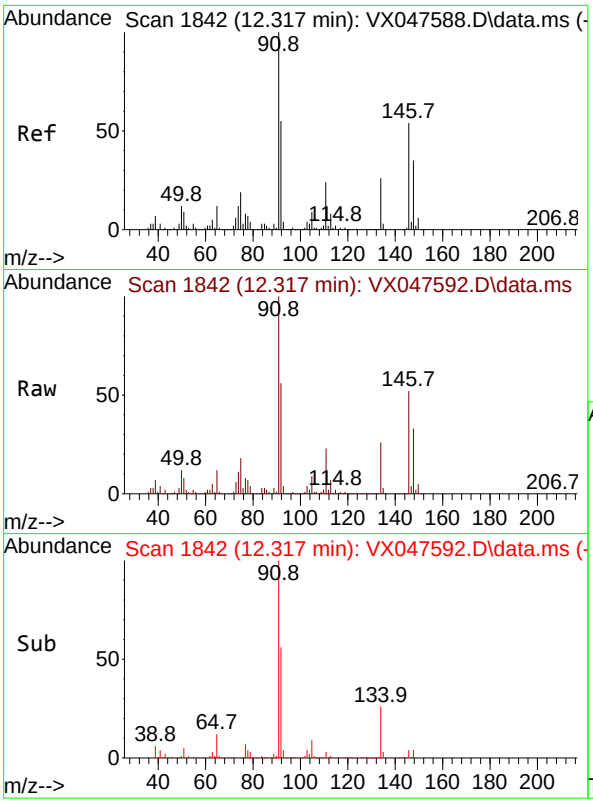


#90
Hexachloroethane
Concen: 50.732 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 79751

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.2	102.5

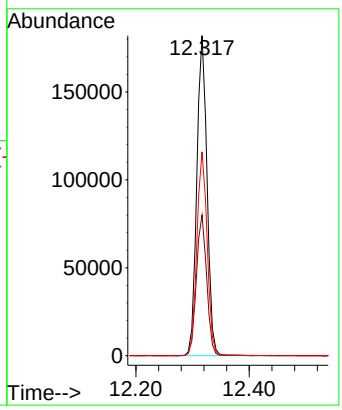




#91
1,2-Dichlorobenzene
Concen: 49.304 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 22749

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.2	66.6
148	64.1	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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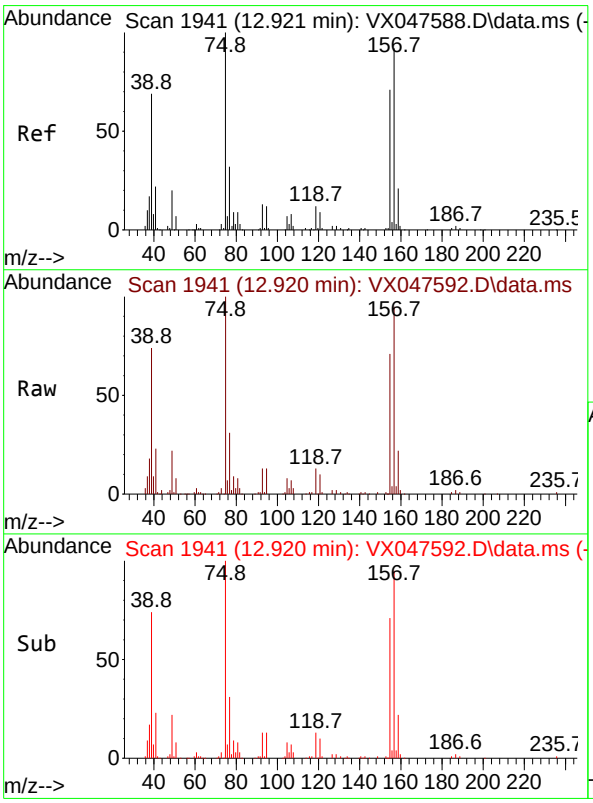
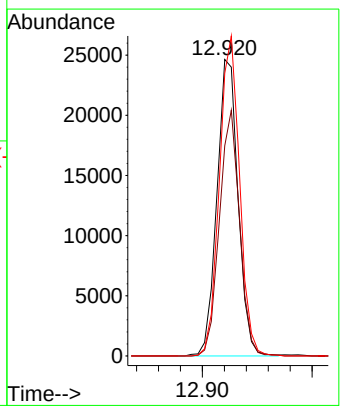
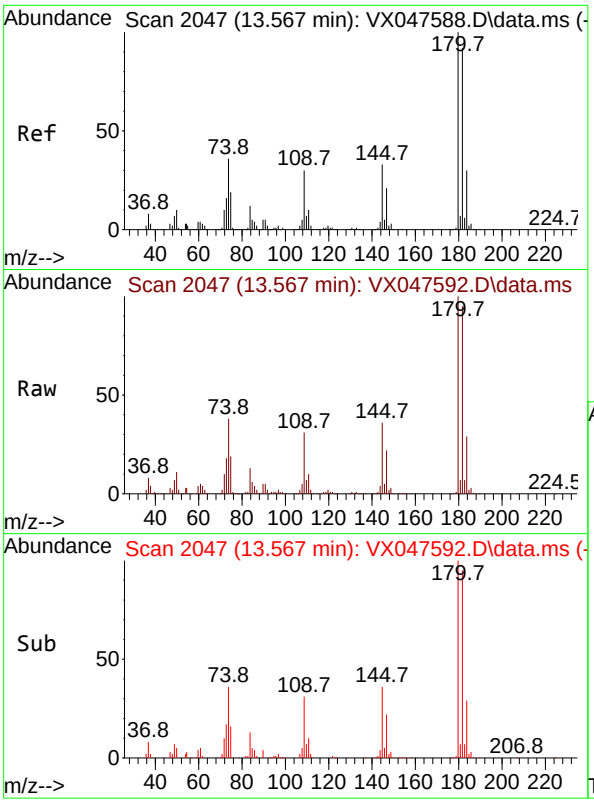


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.918 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 33020

Ion	Ratio	Lower	Upper
75	100		
155	79.1	37.7	113.1
157	103.2	49.8	149.4

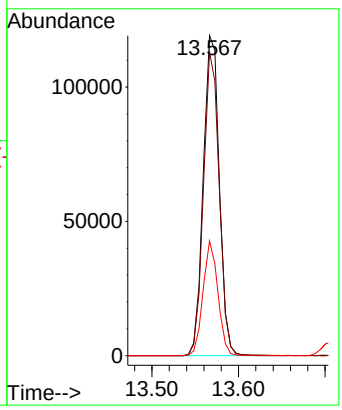




#93
1,2,4-Trichlorobenzene
Concen: 51.133 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:180 Resp: 15333

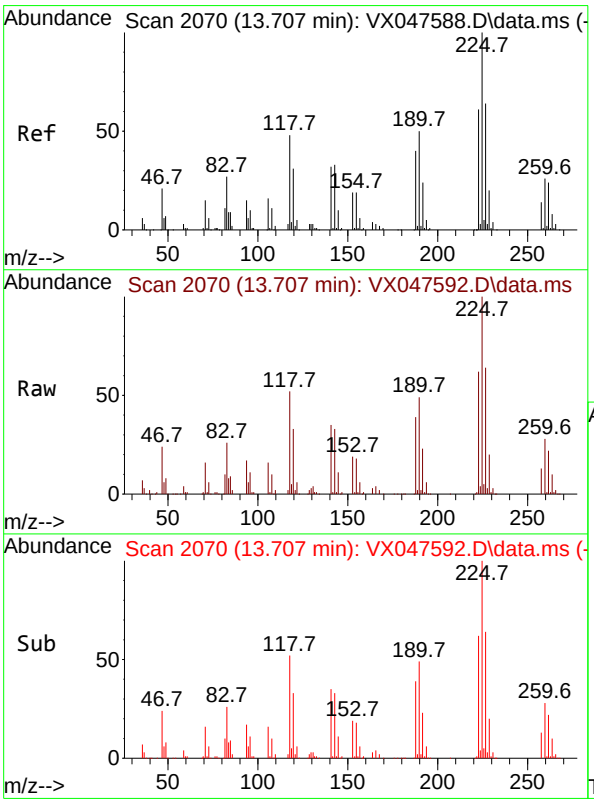
Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.6	139.8
145	33.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

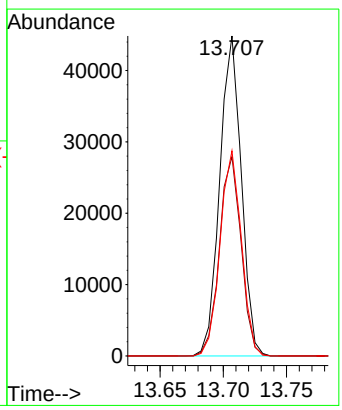
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

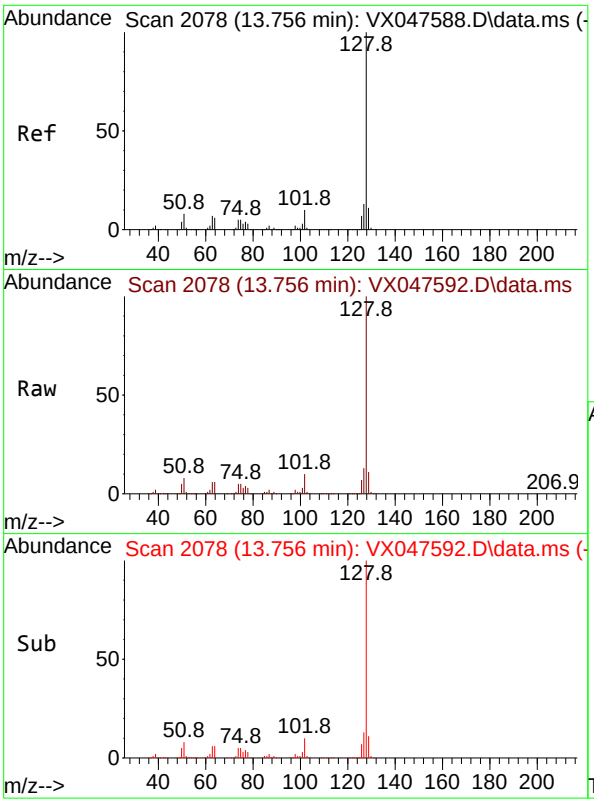


#94
Hexachlorobutadiene
Concen: 52.131 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:225 Resp: 53099

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.7	95.1
227	63.3	32.0	96.0

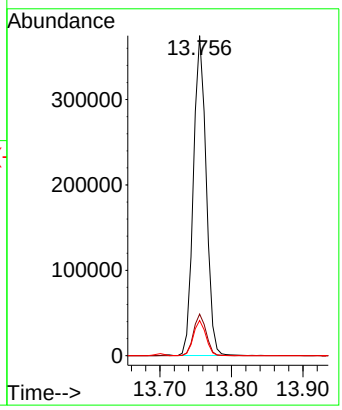




#95
Naphthalene
Concen: 50.836 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:128 Resp: 46420

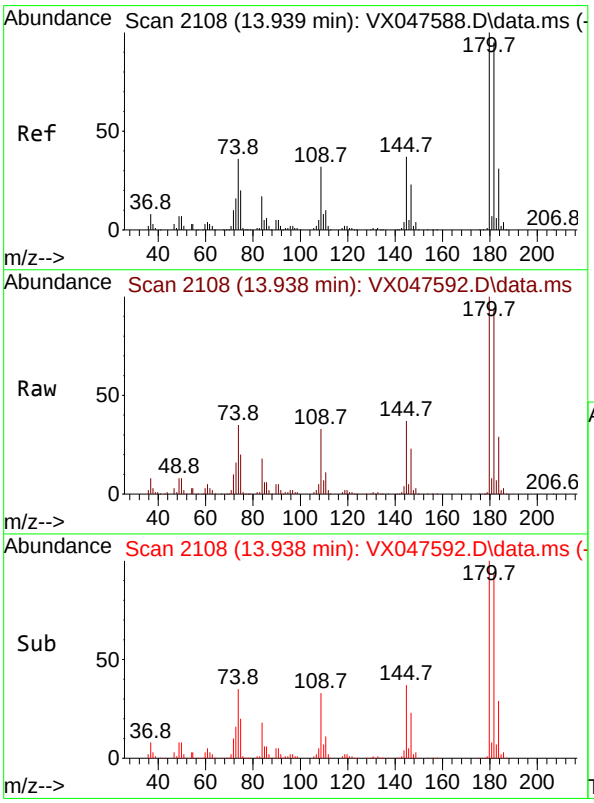
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

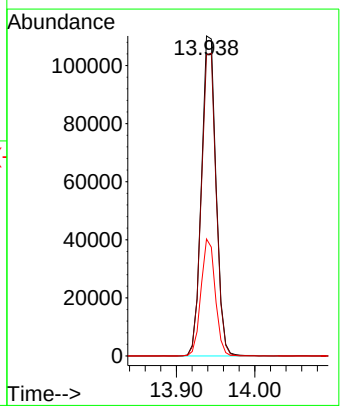
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.054 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:180 Resp: 142413

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.6	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	108	-0.01
2	T	Dichlorodifluoromethane	0.518	0.462	10.8	99	0.00
3	P	Chloromethane	0.680	0.595	12.5	97	0.00
4	C	Vinyl Chloride	0.666	0.610	8.4#	99	0.00
5	T	Bromomethane	0.422	0.410	2.8	104	0.00
6	T	Chloroethane	0.445	0.415	6.7	101	0.00
7	T	Trichlorofluoromethane	0.989	0.931	5.9	101	0.00
8	T	Diethyl Ether	0.405	0.378	6.7	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.561	2.9	103	0.00
10	T	Methyl Iodide	0.902	0.834	7.5	98	0.00
11	T	Tert butyl alcohol	0.089	0.091	-2.2	110	0.00
12	CM	1,1-Dichloroethene	0.594	0.559	5.9#	100	0.00
13	T	Acrolein	0.082	0.083	-1.2	110	0.00
14	T	Allyl chloride	1.226	1.146	6.5	102	0.00
15	T	Acrylonitrile	0.328	0.333	-1.5	103	0.00
16	T	Acetone	0.346	0.339	2.0	115	0.00
17	T	Carbon Disulfide	1.626	1.463	10.0	100	0.00
18	T	Methyl Acetate	0.770	0.850	-10.4	104	0.00
19	T	Methyl tert-butyl Ether	2.169	2.105	3.0	101	0.00
20	T	Methylene Chloride	0.732	0.674	7.9	99	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.597	6.7	99	0.00
22	T	Diisopropyl ether	2.376	2.289	3.7	99	-0.01
23	T	Vinyl Acetate	1.901	1.867	1.8	101	0.00
24	P	1,1-Dichloroethane	1.263	1.213	4.0	101	0.00
25	T	2-Butanone	0.432	0.438	-1.4	107	0.00
26	T	2,2-Dichloropropane	1.050	1.039	1.0	105	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.765	2.3	102	0.00
28	T	Bromochloromethane	0.551	0.514	6.7	96	-0.01
29	T	Tetrahydrofuran	0.260	0.263	-1.2	103	0.00
30	C	Chloroform	1.276	1.244	2.5#	101	0.00
31	T	Cyclohexane	1.052	0.968	8.0	101	0.00
32	T	1,1,1-Trichloroethane	1.082	1.060	2.0	101	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.725	8.9	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
35	S	Dibromofluoromethane	0.335	0.306	8.7	100	0.00
36	T	1,1-Dichloropropene	0.490	0.457	6.7	101	0.00
37	T	Ethyl Acetate	0.525	0.517	1.5	105	-0.01
38	T	Carbon Tetrachloride	0.532	0.500	6.0	100	-0.01
39	T	Methylcyclohexane	0.556	0.541	2.7	103	0.00
40	TM	Benzene	1.488	1.410	5.2	100	0.00
41	T	Methacrylonitrile	0.271	0.274	-1.1	103	0.00
42	TM	1,2-Dichloroethane	0.566	0.531	6.2	98	0.00
43	T	Isopropyl Acetate	0.860	0.846	1.6	102	0.00
44	TM	Trichloroethene	0.360	0.346	3.9	101	0.00
45	C	1,2-Dichloropropane	0.381	0.366	3.9#	100	0.00
46	T	Dibromomethane	0.277	0.266	4.0	100	0.00
47	T	Bromodichloromethane	0.572	0.558	2.4	99	0.00
48	T	Methyl methacrylate	0.429	0.427	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.005	-25.0	106	0.00
50	S	Toluene-d8	1.160	1.077	7.2	101	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.488	-2.3	103	0.00
52	CM	Toluene	0.917	0.883	3.7#	101	0.00
53	T	t-1,3-Dichloropropene	0.584	0.578	1.0	101	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.615	1.4	102	0.00
55	T	1,1,2-Trichloroethane	0.354	0.338	4.5	99	0.00
56	T	Ethyl methacrylate	0.555	0.572	-3.1	103	0.00
57	T	1,3-Dichloropropane	0.607	0.594	2.1	101	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.238	-4.8	94	0.00
59	T	2-Hexanone	0.343	0.347	-1.2	104	0.00
60	T	Dibromochloromethane	0.407	0.406	0.2	101	0.00
61	T	1,2-Dibromoethane	0.360	0.355	1.4	101	0.00
62	S	4-Bromofluorobenzene	0.440	0.410	6.8	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64	T	Tetrachloroethene	0.326	0.315	3.4	103	0.00
65	PM	Chlorobenzene	1.136	1.103	2.9	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.383	2.3	99	0.00
67	C	Ethyl Benzene	1.960	1.953	0.4#	102	0.00
68	T	m/p-Xylenes	0.729	0.722	1.0	101	0.00
69	T	o-Xylene	0.706	0.708	-0.3	101	0.00
70	T	Styrene	1.236	1.225	0.9	101	0.00
71	P	Bromoform	0.293	0.300	-2.4	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
73	T	Isopropylbenzene	3.801	3.762	1.0	101	0.00
74	T	N-amyl acetate	1.733	1.746	-0.8	102	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.147	0.3	102	0.00
76	T	1,2,3-Trichloropropane	1.012	1.076	-6.3	104	0.00
77	T	Bromobenzene	0.936	0.902	3.6	100	0.00
78	T	n-propylbenzene	4.494	4.430	1.4	101	0.00
79	T	2-Chlorotoluene	2.752	2.704	1.7	101	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.127	-0.1	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.401	-1.0	106	0.00
82	T	4-Chlorotoluene	3.251	3.196	1.7	101	0.00
83	T	tert-Butylbenzene	3.197	3.177	0.6	103	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.161	0.2	103	0.00
85	T	sec-Butylbenzene	3.797	3.805	-0.2	103	0.00
86	T	p-Isopropyltoluene	3.215	3.206	0.3	102	0.00
87	T	1,3-Dichlorobenzene	1.739	1.705	2.0	102	0.00
88	T	1,4-Dichlorobenzene	1.785	1.749	2.0	104	0.00
89	T	n-Butylbenzene	2.975	3.020	-1.5	105	0.00
90	T	Hexachloroethane	0.564	0.573	-1.6	105	0.00
91	T	1,2-Dichlorobenzene	1.657	1.634	1.4	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.237	-1.7	102	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.101	-2.2	104	0.00
94	T	Hexachlorobutadiene	0.366	0.381	-4.1	108	0.00
95	T	Naphthalene	3.279	3.334	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.023	-2.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	108	-0.01
2	T	Dichlorodifluoromethane	50.000	44.592	10.8	99	0.00
3	P	Chloromethane	50.000	43.710	12.6	97	0.00
4	C	Vinyl Chloride	50.000	45.783	8.4#	99	0.00
5	T	Bromomethane	50.000	48.489	3.0	104	0.00
6	T	Chloroethane	50.000	46.575	6.8	101	0.00
7	T	Trichlorofluoromethane	50.000	47.074	5.9	101	0.00
8	T	Diethyl Ether	50.000	46.693	6.6	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.524	3.0	103	0.00
10	T	Methyl Iodide	50.000	46.210	7.6	98	0.00
11	T	Tert butyl alcohol	250.000	256.271	-2.5	110	0.00
12	CM	1,1-Dichloroethene	50.000	47.076	5.8#	100	0.00
13	T	Acrolein	250.000	254.867	-1.9	110	0.00
14	T	Allyl chloride	50.000	46.742	6.5	102	0.00
15	T	Acrylonitrile	250.000	253.567	-1.4	103	0.00
16	T	Acetone	250.000	245.006	2.0	115	0.00
17	T	Carbon Disulfide	50.000	44.966	10.1	100	0.00
18	T	Methyl Acetate	50.000	55.175	-10.3	104	0.00
19	T	Methyl tert-butyl Ether	50.000	48.538	2.9	101	0.00
20	T	Methylene Chloride	50.000	46.000	8.0	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.709	6.6	99	0.00
22	T	Diisopropyl ether	50.000	48.174	3.7	99	-0.01
23	T	Vinyl Acetate	250.000	245.539	1.8	101	0.00
24	P	1,1-Dichloroethane	50.000	48.041	3.9	101	0.00
25	T	2-Butanone	250.000	253.598	-1.4	107	0.00
26	T	2,2-Dichloropropane	50.000	49.494	1.0	105	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.826	2.3	102	0.00
28	T	Bromochloromethane	50.000	46.586	6.8	96	-0.01
29	T	Tetrahydrofuran	250.000	253.375	-1.4	103	0.00
30	C	Chloroform	50.000	48.739	2.5#	101	0.00
31	T	Cyclohexane	50.000	45.999	8.0	101	0.00
32	T	1,1,1-Trichloroethane	50.000	48.978	2.0	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.550	8.9	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	108	0.00
35	S	Dibromofluoromethane	50.000	45.559	8.9	100	0.00
36	T	1,1-Dichloropropene	50.000	46.663	6.7	101	0.00
37	T	Ethyl Acetate	50.000	49.241	1.5	105	-0.01
38	T	Carbon Tetrachloride	50.000	46.935	6.1	100	-0.01
39	T	Methylcyclohexane	50.000	48.597	2.8	103	0.00
40	TM	Benzene	50.000	47.357	5.3	100	0.00
41	T	Methacrylonitrile	50.000	50.490	-1.0	103	0.00
42	TM	1,2-Dichloroethane	50.000	46.867	6.3	98	0.00
43	T	Isopropyl Acetate	50.000	49.136	1.7	102	0.00
44	TM	Trichloroethene	50.000	48.037	3.9	101	0.00
45	C	1,2-Dichloropropane	50.000	48.053	3.9#	100	0.00
46	T	Dibromomethane	50.000	47.976	4.0	100	0.00
47	T	Bromodichloromethane	50.000	48.769	2.5	99	0.00
48	T	Methyl methacrylate	50.000	49.757	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1089.520	-9.0	106	0.00
50	S	Toluene-d8	50.000	46.411	7.2	101	0.00
51	T	4-Methyl-2-Pentanone	250.000	255.752	-2.3	103	0.00
52	CM	Toluene	50.000	48.130	3.7#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	49.527	0.9	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.257	1.5	102	0.00
55	T	1,1,2-Trichloroethane	50.000	47.772	4.5	99	0.00
56	T	Ethyl methacrylate	50.000	51.490	-3.0	103	0.00
57	T	1,3-Dichloropropane	50.000	48.894	2.2	101	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	225.562	9.8	94	0.00
59	T	2-Hexanone	250.000	253.126	-1.3	104	0.00
60	T	Dibromochloromethane	50.000	49.824	0.4	101	0.00
61	T	1,2-Dibromoethane	50.000	49.297	1.4	101	0.00
62	S	4-Bromofluorobenzene	50.000	46.520	7.0	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64	T	Tetrachloroethene	50.000	48.296	3.4	103	0.00
65	PM	Chlorobenzene	50.000	48.549	2.9	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.794	2.4	99	0.00
67	C	Ethyl Benzene	50.000	49.813	0.4#	102	0.00
68	T	m/p-Xylenes	100.000	98.956	1.0	101	0.00
69	T	o-Xylene	50.000	50.159	-0.3	101	0.00
70	T	Styrene	50.000	49.536	0.9	101	0.00
71	P	Bromoform	50.000	51.207	-2.4	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	109	0.00
73	T	Isopropylbenzene	50.000	49.479	1.0	101	0.00
74	T	N-amyl acetate	50.000	50.375	-0.8	102	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.851	0.3	102	0.00
76	T	1,2,3-Trichloropropane	50.000	53.124	-6.2	104	0.00
77	T	Bromobenzene	50.000	48.173	3.7	100	0.00
78	T	n-propylbenzene	50.000	49.295	1.4	101	0.00
79	T	2-Chlorotoluene	50.000	49.117	1.8	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.055	-0.1	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.543	-1.1	106	0.00
82	T	4-Chlorotoluene	50.000	49.164	1.7	101	0.00
83	T	tert-Butylbenzene	50.000	49.679	0.6	103	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.911	0.2	103	0.00
85	T	sec-Butylbenzene	50.000	50.100	-0.2	103	0.00
86	T	p-Isopropyltoluene	50.000	49.861	0.3	102	0.00
87	T	1,3-Dichlorobenzene	50.000	49.014	2.0	102	0.00
88	T	1,4-Dichlorobenzene	50.000	49.011	2.0	104	0.00
89	T	n-Butylbenzene	50.000	50.752	-1.5	105	0.00
90	T	Hexachloroethane	50.000	50.732	-1.5	105	0.00
91	T	1,2-Dichlorobenzene	50.000	49.304	1.4	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.918	-1.8	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.133	-2.3	104	0.00
94	T	Hexachlorobutadiene	50.000	52.131	-4.3	108	0.00
95	T	Naphthalene	50.000	50.836	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.054	-2.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/19/2025 09:22
Lab File ID:	VX047660.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.650		25.48	20
Chloromethane	0.680	0.796	0.1	17.06	20
Vinyl Chloride	0.666	0.765		14.86	20
Bromomethane	0.422	0.509		20.62	20
Chloroethane	0.445	0.487		9.44	20
Trichlorofluoromethane	0.989	1.055		6.67	20
1,1,2-Trichlorotrifluoroethane	0.578	0.606		4.84	20
1,1-Dichloroethene	0.594	0.636		7.07	20
Acetone	0.346	0.370		6.94	20
Carbon Disulfide	1.626	1.859		14.33	20
Methyl tert-butyl Ether	2.169	2.275		4.89	20
Methyl Acetate	0.770	0.823		6.88	20
Methylene Chloride	0.732	0.763		4.24	20
trans-1,2-Dichloroethene	0.640	0.690		7.81	20
1,1-Dichloroethane	1.263	1.331	0.1	5.38	20
Cyclohexane	1.052	1.072		1.9	20
2-Butanone	0.432	0.467		8.1	20
Carbon Tetrachloride	0.532	0.515		-3.19	20
cis-1,2-Dichloroethene	0.783	0.828		5.75	20
Bromochloromethane	0.551	0.612		11.07	20
Chloroform	1.276	1.333		4.47	20
1,1,1-Trichloroethane	1.082	1.113		2.87	20
Methylcyclohexane	0.556	0.565		1.62	20
Benzene	1.488	1.532		2.96	20
1,2-Dichloroethane	0.566	0.567		0.18	20
Trichloroethene	0.360	0.371		3.06	20
1,2-Dichloropropane	0.381	0.386		1.31	20
Bromodichloromethane	0.572	0.580		1.4	20
4-Methyl-2-Pentanone	0.477	0.504		5.66	20
Toluene	0.917	0.930		1.42	20
t-1,3-Dichloropropene	0.584	0.600		2.74	20
cis-1,3-Dichloropropene	0.624	0.646		3.53	20
1,1,2-Trichloroethane	0.354	0.359		1.41	20
2-Hexanone	0.343	0.360		4.96	20
Dibromochloromethane	0.407	0.423		3.93	20
1,2-Dibromoethane	0.360	0.383		6.39	20
Tetrachloroethene	0.326	0.319		-2.15	20
Chlorobenzene	1.136	1.134	0.3	-0.18	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: MSVOA_X Calibration Date/Time: 09/19/2025 09:22

Lab File ID: VX047660.D Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	1.969		0.46	20
m/p-Xylenes	0.729	0.735		0.82	20
o-Xylene	0.706	0.714		1.13	20
Styrene	1.236	1.272		2.91	20
Bromoform	0.293	0.298	0.1	1.71	20
Isopropylbenzene	3.801	3.802		0.03	20
1,1,2,2-Tetrachloroethane	1.150	1.194	0.3	3.83	20
1,3-Dichlorobenzene	1.739	1.744		0.29	20
1,4-Dichlorobenzene	1.785	1.754		-1.74	20
1,2-Dichlorobenzene	1.657	1.660		0.18	20
1,2-Dibromo-3-Chloropropane	0.233	0.242		3.86	20
1,2,4-Trichlorobenzene	1.077	1.091		1.3	20
1,2,3-Trichlorobenzene	1.002	1.028		2.6	20
1,2-Dichloroethane-d4	0.796	0.779		-2.14	20
Dibromofluoromethane	0.335	0.329		-1.79	20
Toluene-d8	1.160	1.122		-3.28	20
4-Bromofluorobenzene	0.440	0.425		-3.41	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	168285	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	306730	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	272268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	129778	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	131043	48.921	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.840%			
35) Dibromofluoromethane	5.367	113	100766	48.985	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.960%			
50) Toluene-d8	8.629	98	344123	48.346	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.700%			
62) 4-Bromofluorobenzene	11.061	95	130212	48.202	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	109308	62.726	ug/l	98
3) Chloromethane	1.301	50	133876	58.454	ug/l	99
4) Vinyl Chloride	1.380	62	128689	57.401	ug/l	100
5) Bromomethane	1.618	94	85593	60.207	ug/l	96
6) Chloroethane	1.691	64	81959	54.697	ug/l	99
7) Trichlorofluoromethane	1.892	101	177530	53.331	ug/l	98
8) Diethyl Ether	2.136	74	72507	53.247	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	101931	52.368	ug/l	100
10) Methyl Iodide	2.453	142	161075	53.061	ug/l	100
11) Tert butyl alcohol	2.941	59	76492	256.398	ug/l	96
12) 1,1-Dichloroethene	2.325	96	106990	53.511	ug/l	96
13) Acrolein	2.233	56	76226	277.267	ug/l	100
14) Allyl chloride	2.660	41	214937	52.096	ug/l	98
15) Acrylonitrile	3.056	53	309800	280.351	ug/l	99
16) Acetone	2.374	43	311710	267.632	ug/l	100
17) Carbon Disulfide	2.514	76	312779	57.144	ug/l	97
18) Methyl Acetate	2.697	43	138468	53.421	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	382912	52.463	ug/l	100
20) Methylene Chloride	2.782	84	128420	52.090	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	116131	53.949	ug/l	98
22) Diisopropyl ether	3.745	45	424760	53.122	ug/l	87
23) Vinyl Acetate	3.709	43	1775588	277.456	ug/l	100
24) 1,1-Dichloroethane	3.599	63	223923	52.689	ug/l	97
25) 2-Butanone	4.532	43	392796	270.370	ug/l	97
26) 2,2-Dichloropropane	4.465	77	182677	51.709	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	139356	52.862	ug/l	99
28) Bromochloromethane	4.879	49	102961	55.493	ug/l	99
29) Tetrahydrofuran	4.983	42	240704	275.412	ug/l	99
30) Chloroform	5.074	83	224397	52.250	ug/l	99
31) Cyclohexane	5.452	56	180483	50.989	ug/l	97
32) 1,1,1-Trichloroethane	5.367	97	187258	51.405	ug/l	100
36) 1,1-Dichloropropene	5.672	75	148709	49.472	ug/l	99
37) Ethyl Acetate	4.690	43	167930	52.177	ug/l	98
38) Carbon Tetrachloride	5.660	117	158068	48.399	ug/l	96
39) Methylcyclohexane	7.361	83	173329	50.798	ug/l	98
40) Benzene	6.019	78	469978	51.478	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.898	41	89756	54.019	ug/l	98
42) 1,2-Dichloroethane	6.068	62	173829	50.041	ug/l	99
43) Isopropyl Acetate	6.318	43	269858	51.124	ug/l	99
44) Trichloroethene	7.104	130	113653	51.491	ug/l	100
45) 1,2-Dichloropropane	7.409	63	118540	50.706	ug/l	99
46) Dibromomethane	7.562	93	87295	51.314	ug/l	99
47) Bromodichloromethane	7.799	83	177916	50.681	ug/l	98
48) Methyl methacrylate	7.671	41	135518	51.542	ug/l	99
49) 1,4-Dioxane	7.641	88	33615	1265.071	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	772605	263.992	ug/l	100
52) Toluene	8.702	92	285358	50.732	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	184125	51.420	ug/l	99
54) cis-1,3-Dichloropropene	8.348	75	198129	51.767	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	110081	50.755	ug/l	98
56) Ethyl methacrylate	9.098	69	181056	53.155	ug/l	96
57) 1,3-Dichloropropane	9.293	76	193901	52.043	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.220	63	426594	261.332	ug/l	100
59) 2-Hexanone	9.415	43	551745	262.497	ug/l	98
60) Dibromochloromethane	9.500	129	129786	51.934	ug/l	100
61) 1,2-Dibromoethane	9.592	107	117326	53.110	ug/l	99
64) Tetrachloroethene	9.257	164	86883	48.951	ug/l	98
65) Chlorobenzene	10.061	112	308645	49.899	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.147	131	107031	50.145	ug/l	100
67) Ethyl Benzene	10.177	91	536224	50.244	ug/l	100
68) m/p-Xylenes	10.281	106	400119	100.725	ug/l	99
69) o-Xylene	10.622	106	194487	50.618	ug/l	99
70) Styrene	10.634	104	346312	51.440	ug/l	98
71) Bromoform	10.781	173	81077	50.872	ug/l	99
73) Isopropylbenzene	10.945	105	493376	50.005	ug/l	99
74) N-amyl acetate	10.823	43	234901	52.208	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	154912	51.895	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	125290m	47.682	ug/l	
77) Bromobenzene	11.177	156	121922	50.172	ug/l	99
78) n-propylbenzene	11.287	91	583388	50.018	ug/l	99
79) 2-Chlorotoluene	11.348	91	356287	49.875	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	409554	50.523	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	51972	50.440	ug/l	99
82) 4-Chlorotoluene	11.433	91	421274	49.932	ug/l	99
83) tert-Butylbenzene	11.695	119	399938	48.196	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	415095	50.508	ug/l	100
85) sec-Butylbenzene	11.872	105	489102	49.622	ug/l	100
86) p-Isopropyltoluene	11.988	119	415198	49.757	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	226308	50.139	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	227633	49.138	ug/l	99
89) n-Butylbenzene	12.311	91	386234	50.022	ug/l	99
90) Hexachloroethane	12.518	117	73125	49.913	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	215367	50.084	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	31345	51.864	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	141532	50.643	ug/l	100
94) Hexachlorobutadiene	13.707	225	47423	49.957	ug/l	99
95) Naphthalene	13.756	128	428676	50.373	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	133374	51.304	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

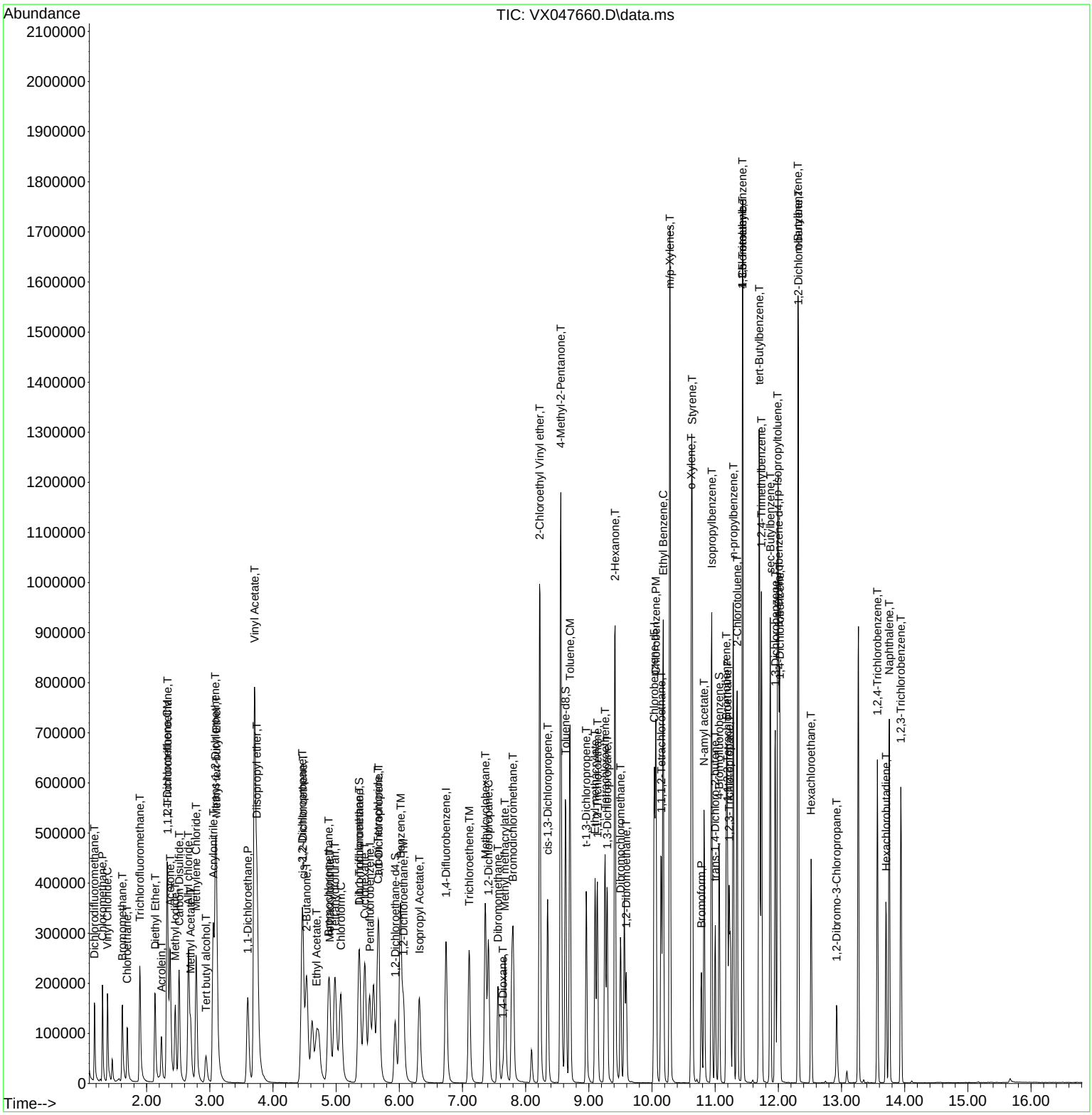
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

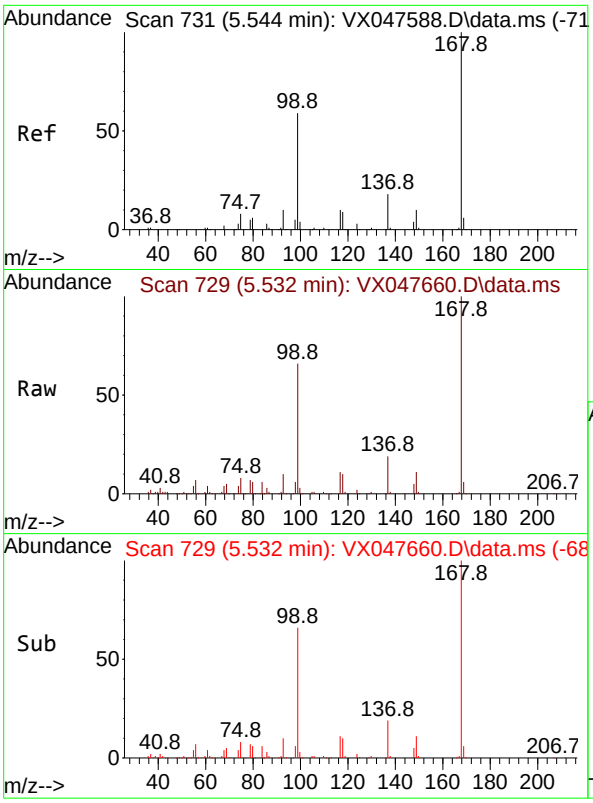
Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

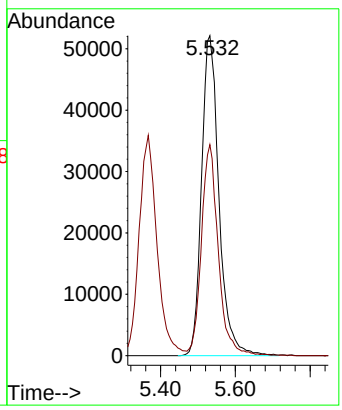




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:168 Resp: 16828

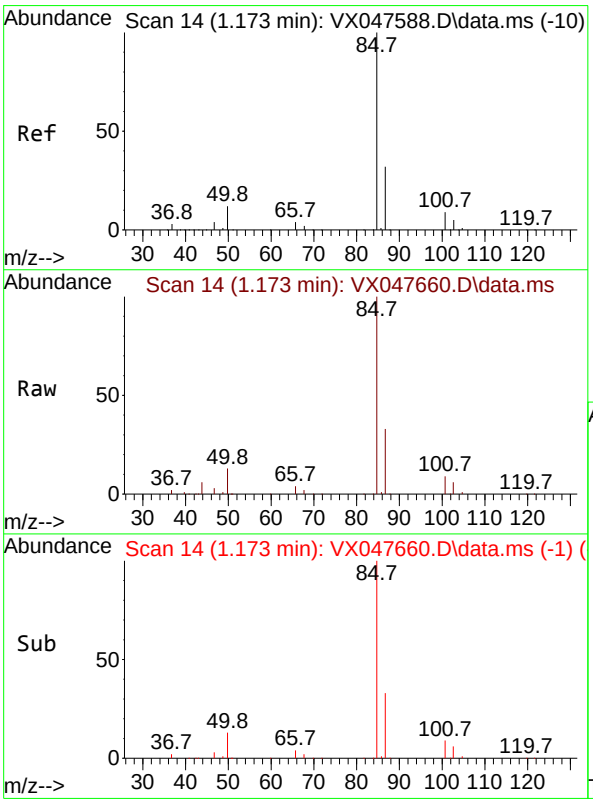
Ion	Ratio	Lower	Upper
168	100		
99	65.8	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

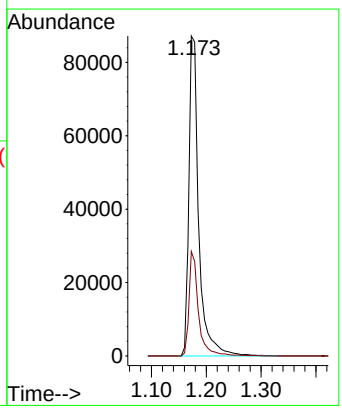
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

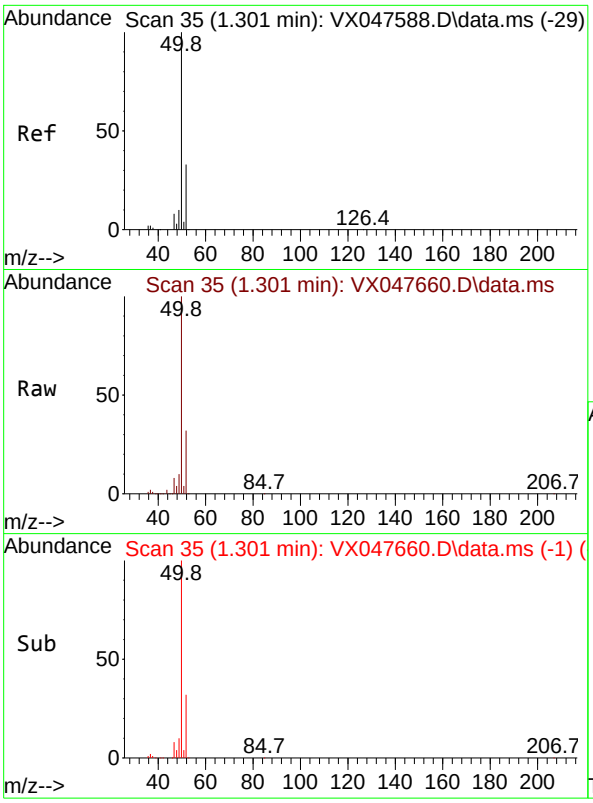


#2
Dichlorodifluoromethane
Concen: 62.726 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 85 Resp: 109308

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.8	47.3

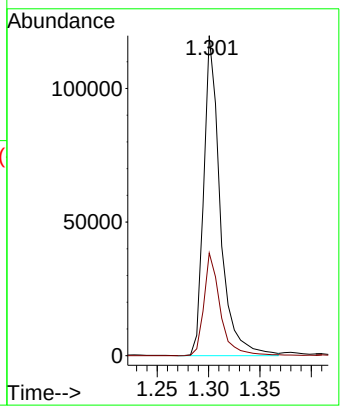




#3
Chloromethane
Concen: 58.454 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 50 Resp: 13387

Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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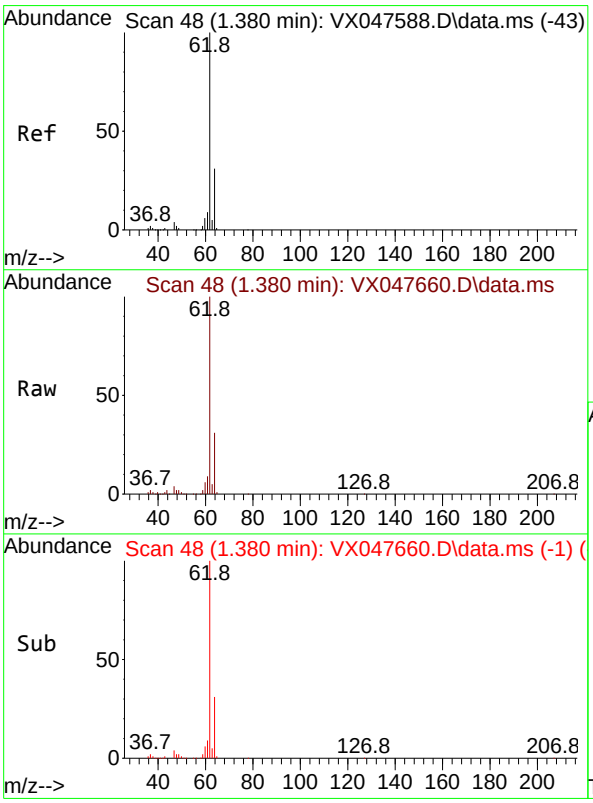
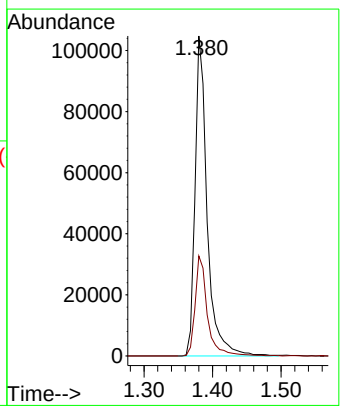
Supervised By :Mahesh Dadoda 09/22/2025

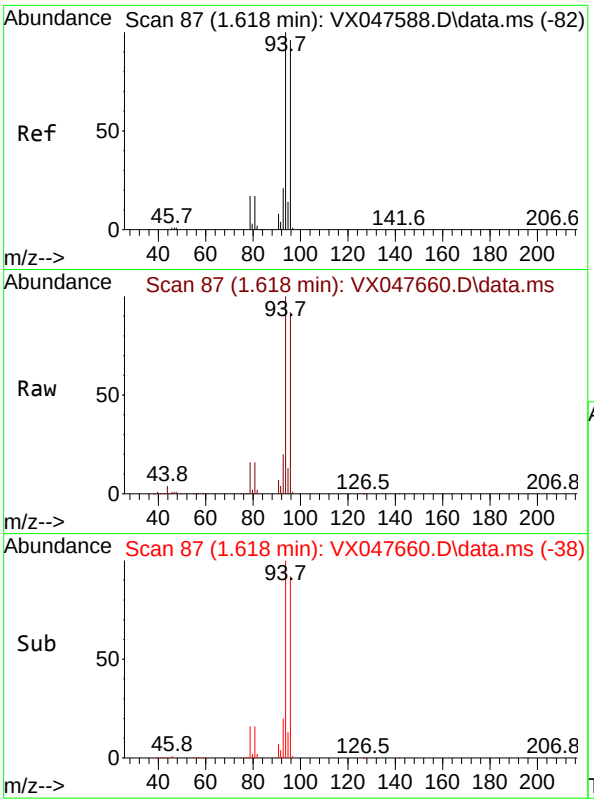


#4
Vinyl Chloride
Concen: 57.401 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 62 Resp: 128689

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.9	37.3

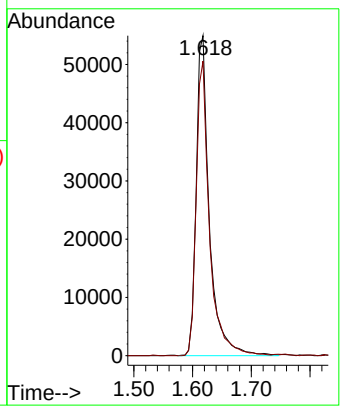




#5
Bromomethane
Concen: 60.207 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 94 Resp: 8559

Ion	Ratio	Lower	Upper
94	100		
96	92.0	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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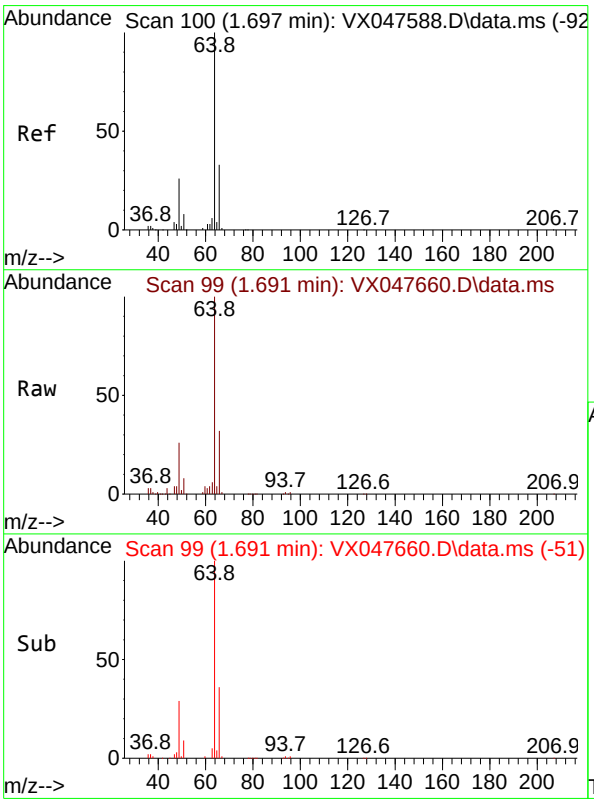
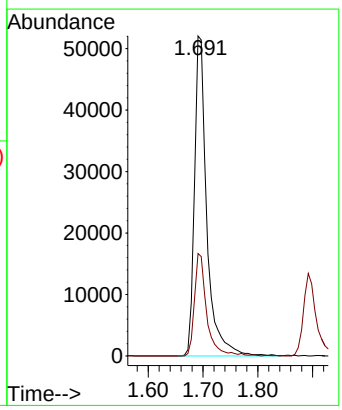
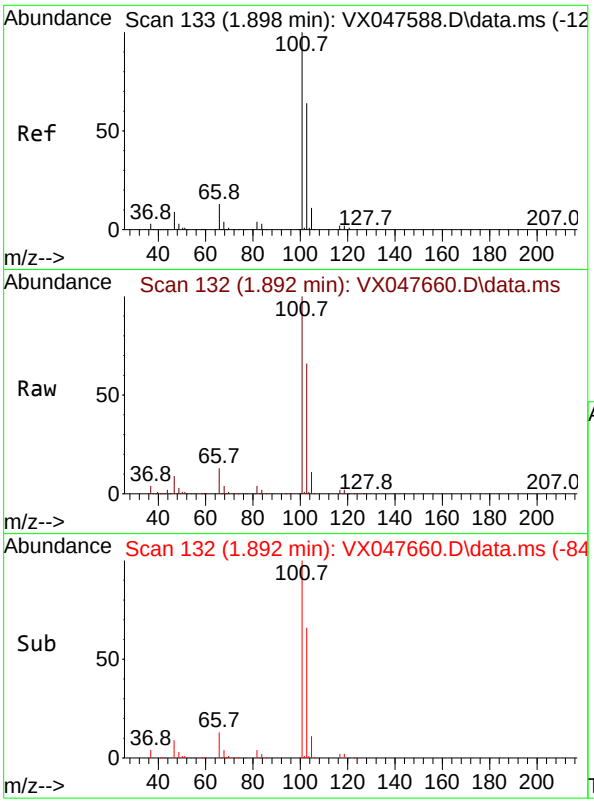


#6
Chloroethane
Concen: 54.697 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 64 Resp: 81959

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.1	39.1





#7
Trichlorofluoromethane
Concen: 53.331 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:101 Resp: 17753

Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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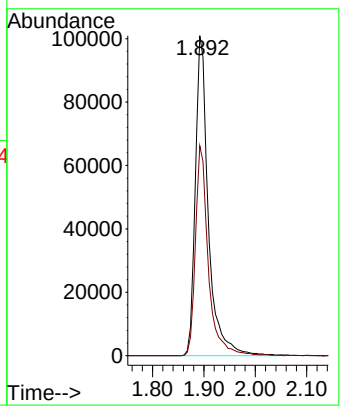
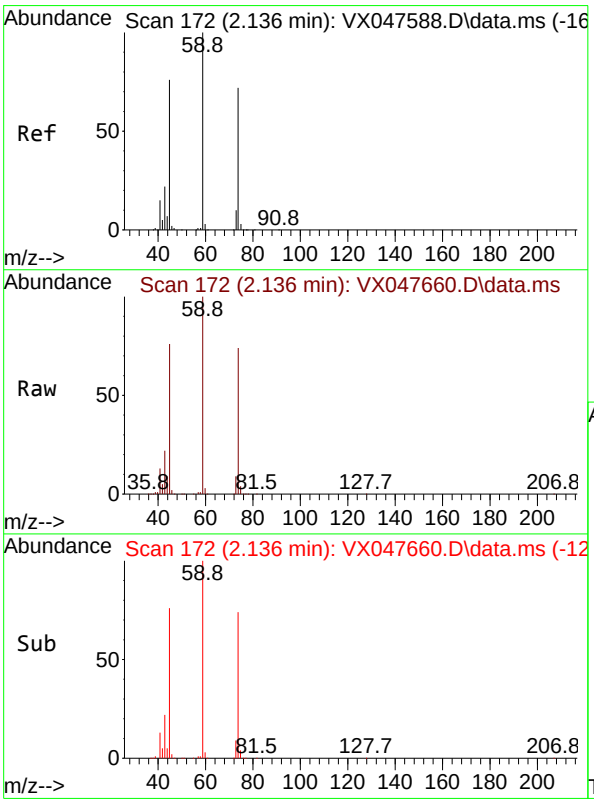
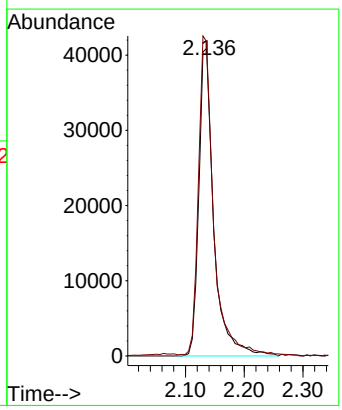


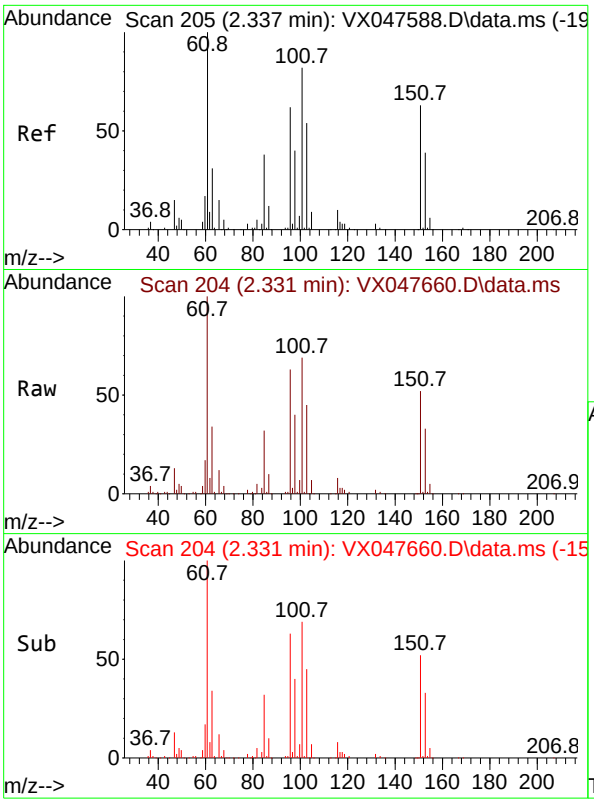


#8
Diethyl Ether
Concen: 53.247 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 74 Resp: 72507

Ion	Ratio	Lower	Upper
74	100		
45	106.8	52.3	156.8

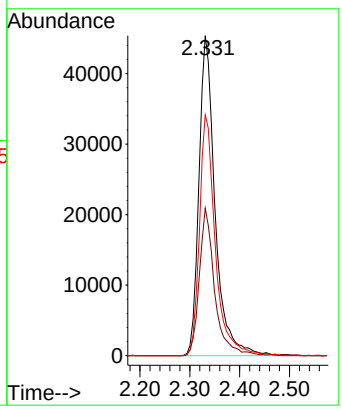




#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.368 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:101 Resp: 10193

Ion	Ratio	Lower	Upper
101	100		
85	44.0	35.5	53.3
151	74.2	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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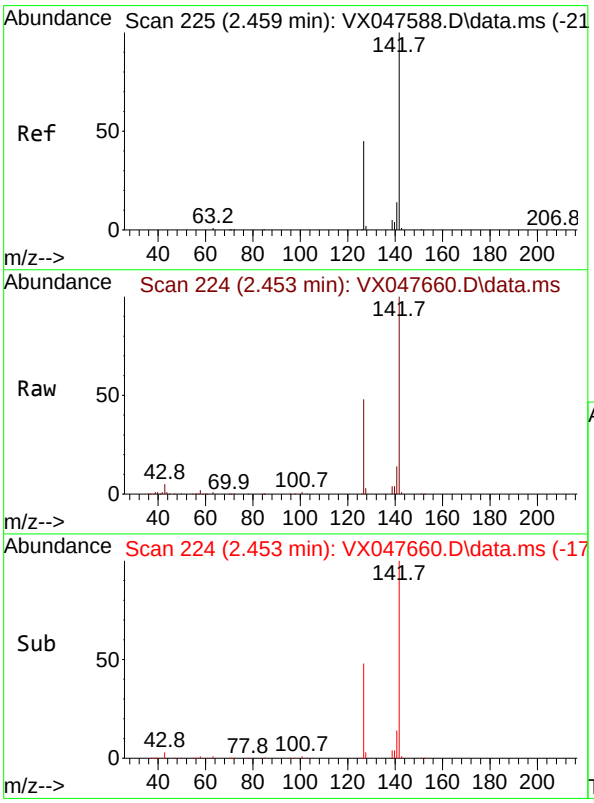
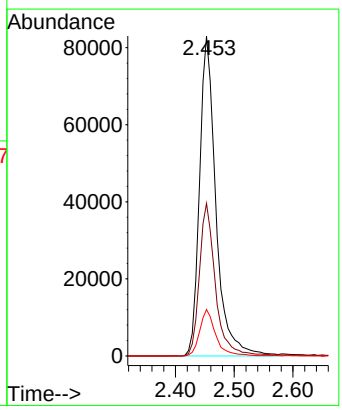
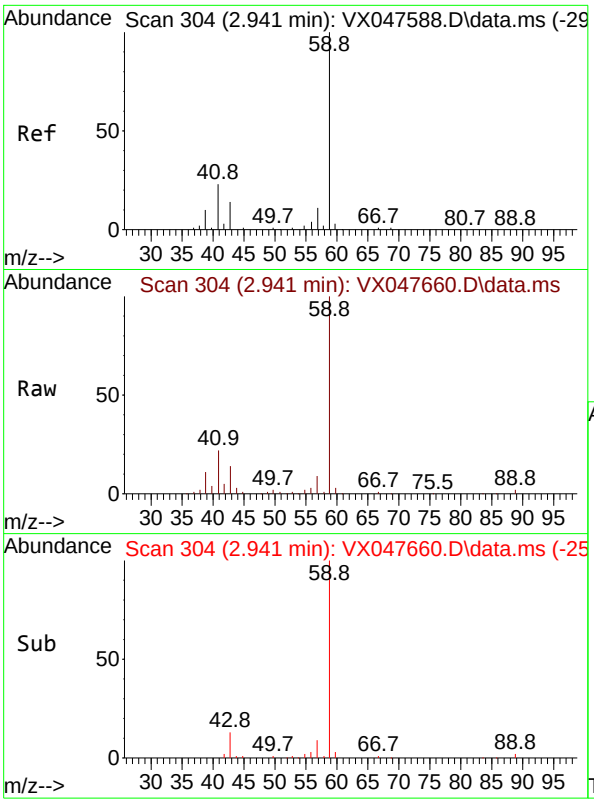


#10
Methyl Iodide
Concen: 53.061 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:142 Resp: 161075

Ion	Ratio	Lower	Upper
142	100		
127	46.6	37.2	55.8
141	14.2	11.4	17.0

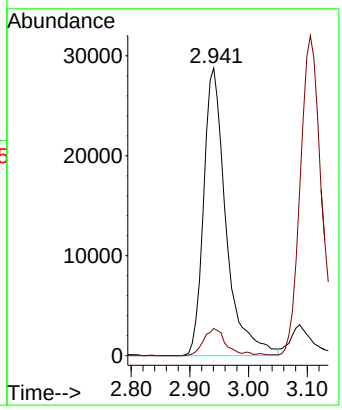




#11
Tert butyl alcohol
Concen: 256.398 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 59 Resp: 7649

Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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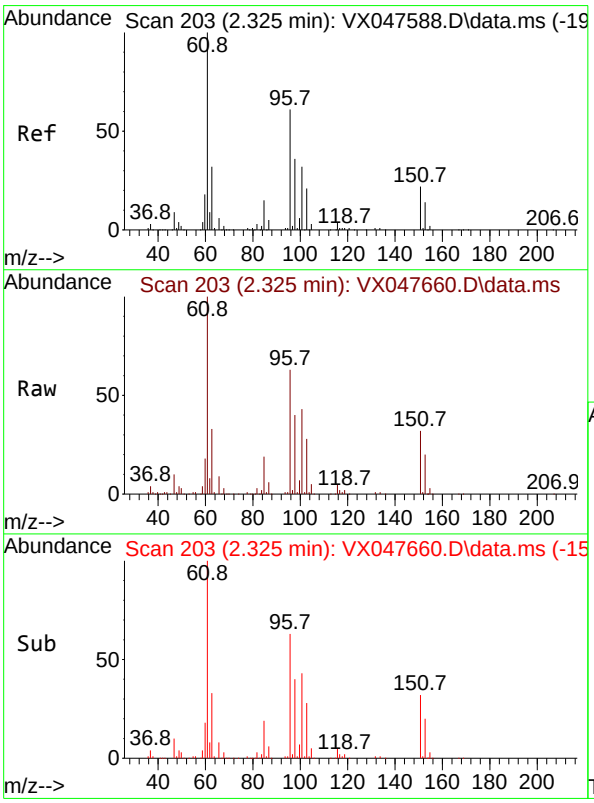
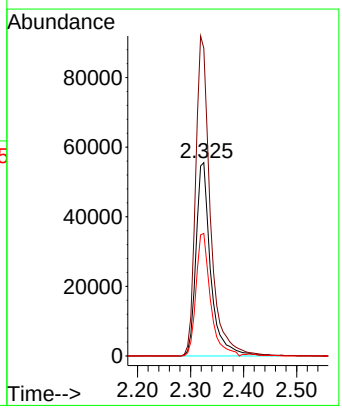
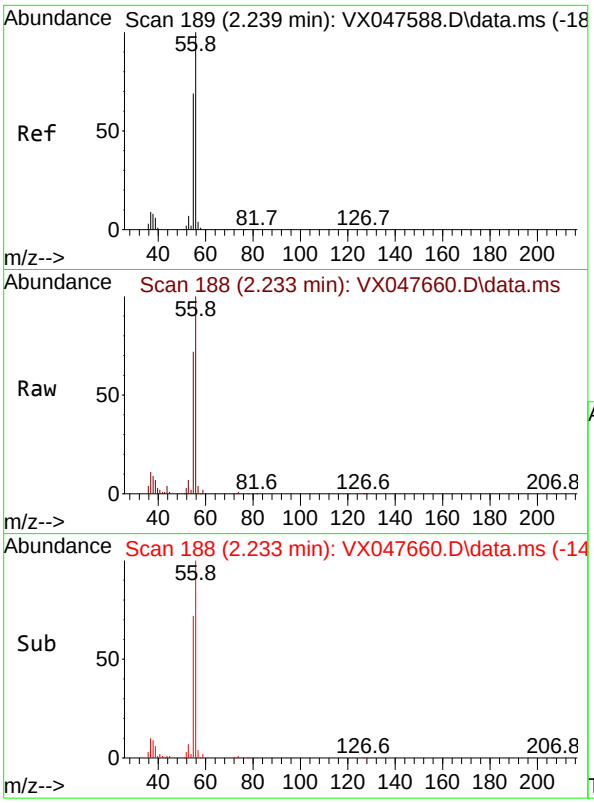


#12
1,1-Dichloroethene
Concen: 53.511 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 96 Resp: 106990

Ion	Ratio	Lower	Upper
96	100		
61	159.2	131.0	196.6
98	63.4	47.7	71.5

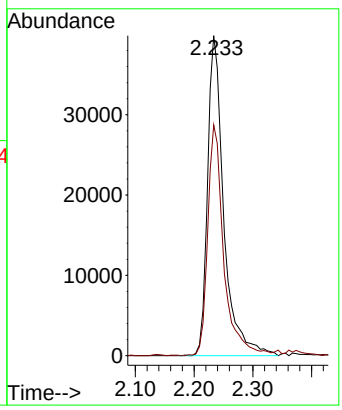




#13
Acrolein
Concen: 277.267 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 56 Resp: 7622

Ion	Ratio	Lower	Upper
56	100		
55	71.3	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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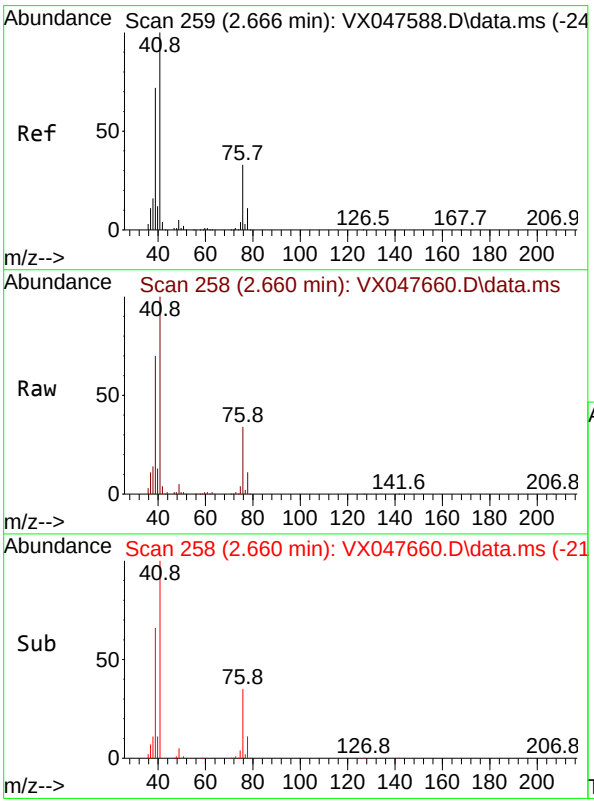
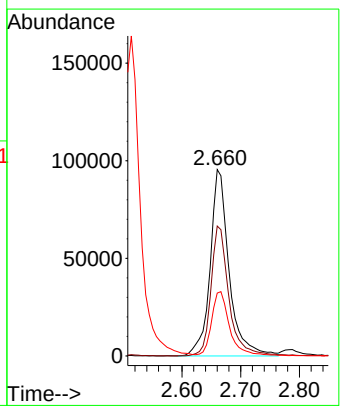
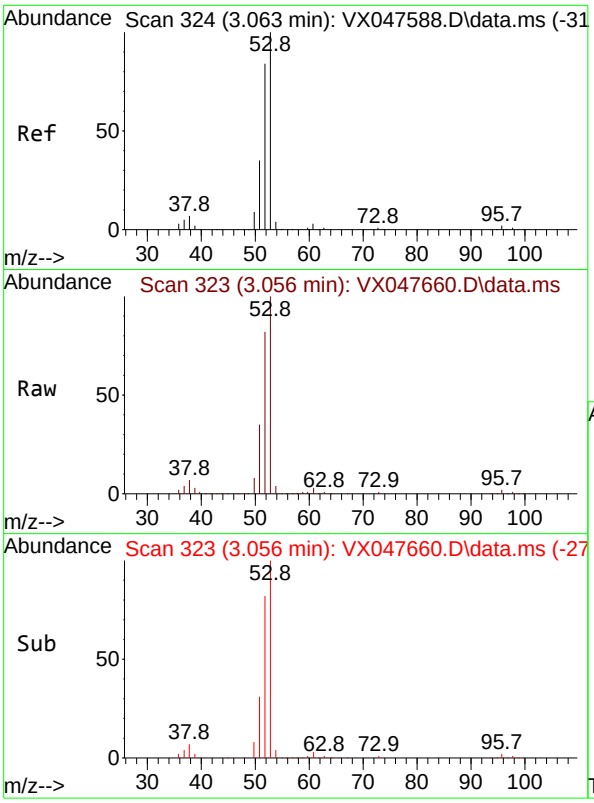


#14
Allyl chloride
Concen: 52.096 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 41 Resp: 214937

Ion	Ratio	Lower	Upper
41	100		
39	66.2	54.7	82.1
76	32.9	25.7	38.5

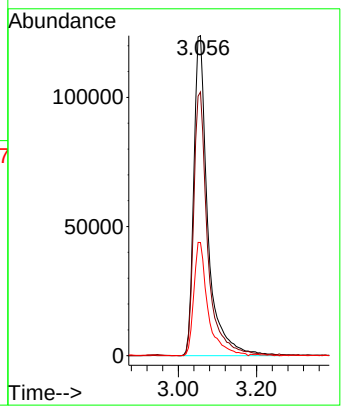




#15
Acrylonitrile
Concen: 280.351 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 53 Resp: 30980

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	35.8	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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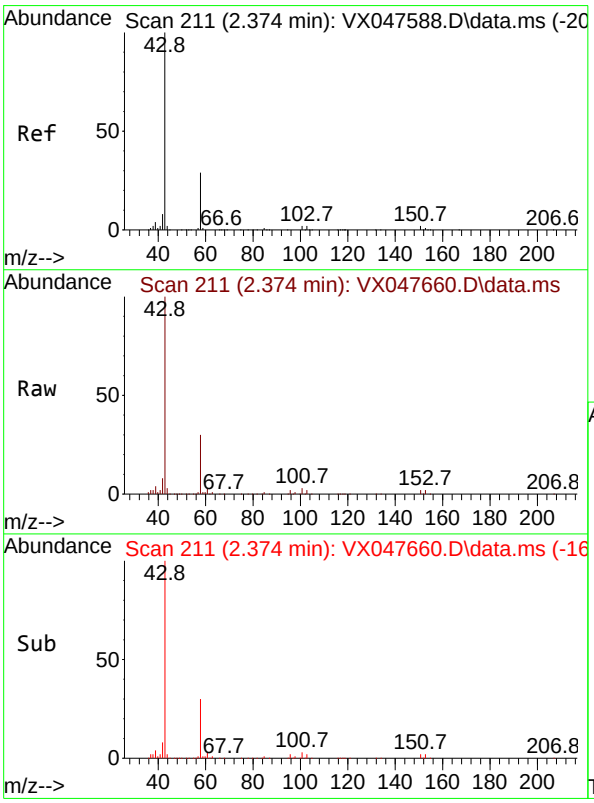
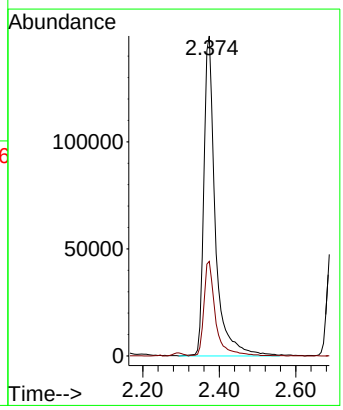
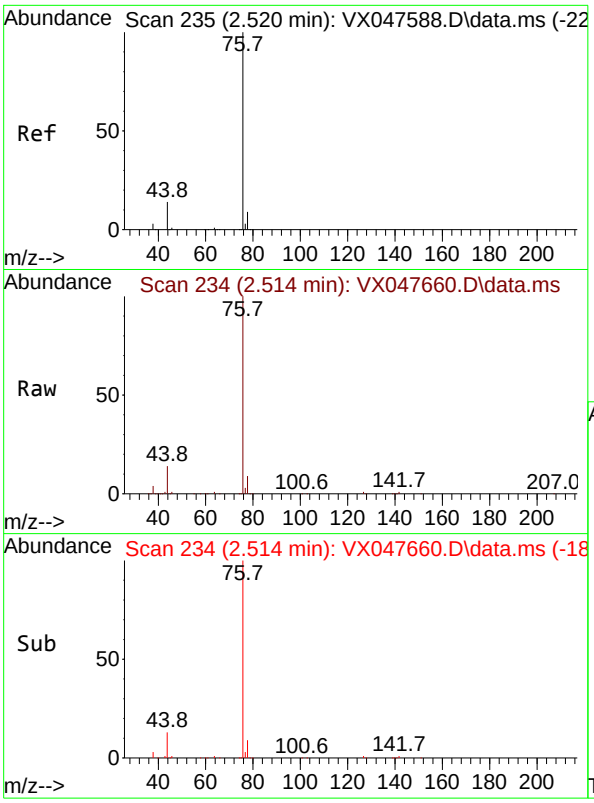


#16
Acetone
Concen: 267.632 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 311710

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.4	35.0

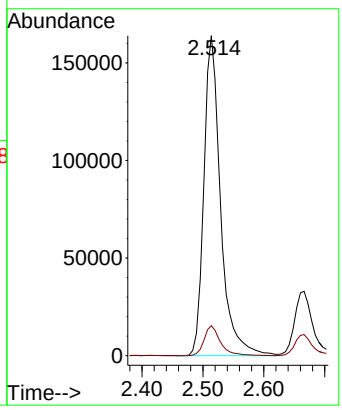




#17
Carbon Disulfide
Concen: 57.144 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 76 Resp: 31277

Ion	Ratio	Lower	Upper
76	100		
78	9.5	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
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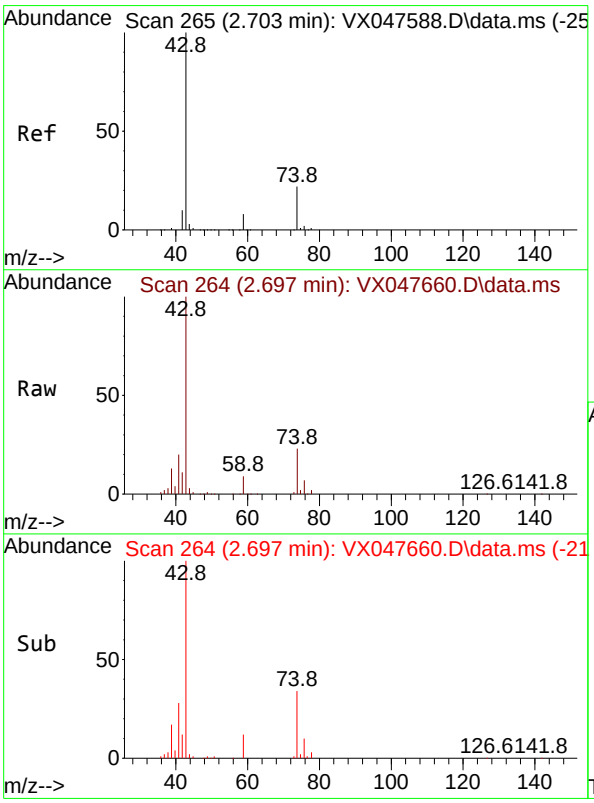
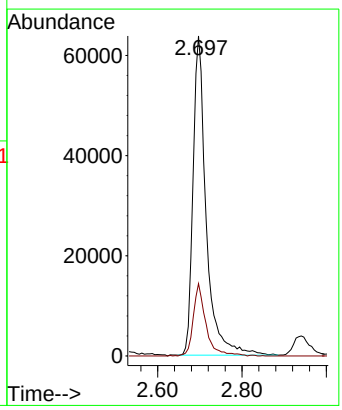
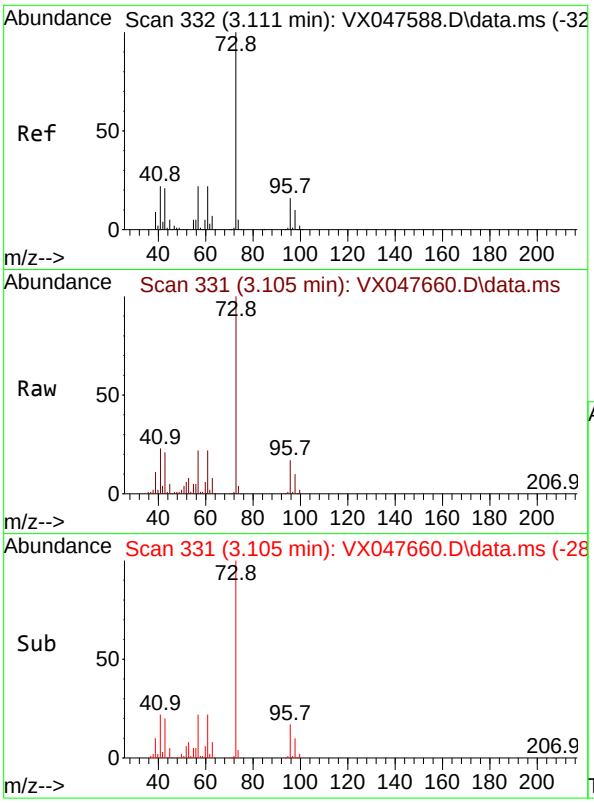


#18
Methyl Acetate
Concen: 53.421 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 138468

Ion	Ratio	Lower	Upper
43	100		
74	21.7	17.4	26.2

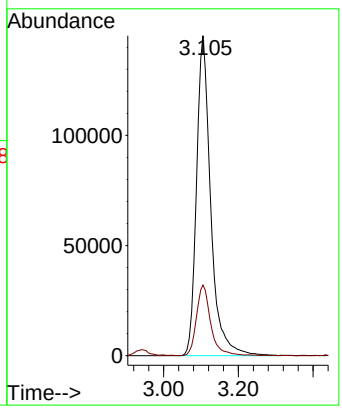




#19
Methyl tert-butyl Ether
Concen: 52.463 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 73 Resp: 38291

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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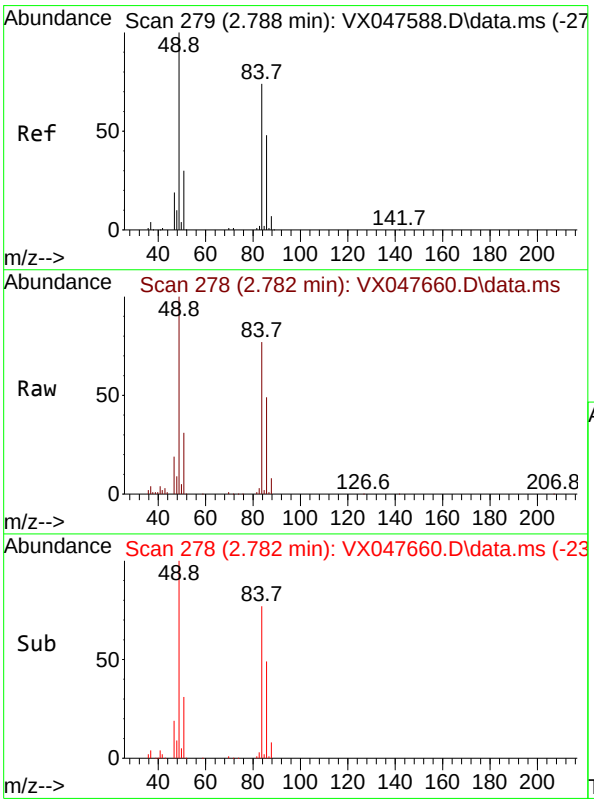
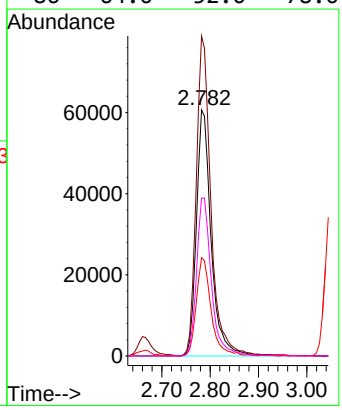
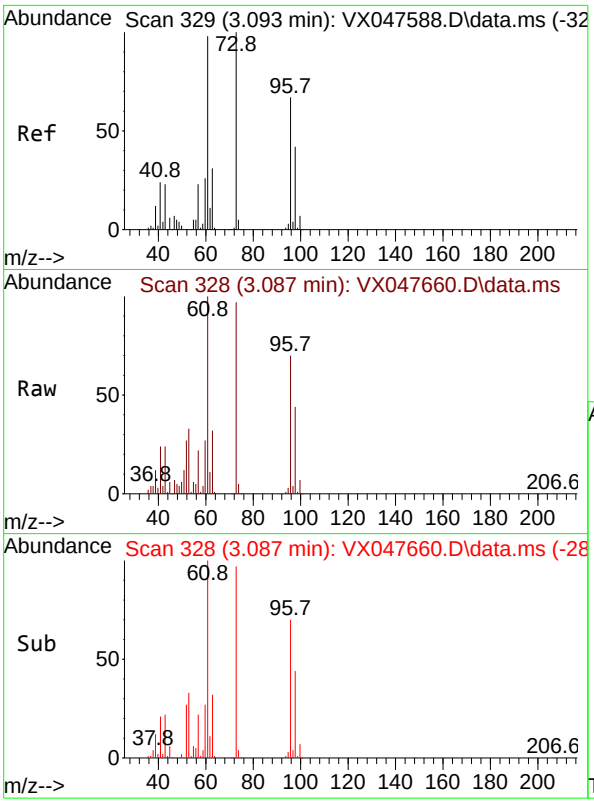


#20
Methylene Chloride
Concen: 52.090 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 84 Resp: 128420

Ion	Ratio	Lower	Upper
84	100		
49	129.8	108.6	162.8
51	39.9	32.6	48.8
86	64.0	52.0	78.0

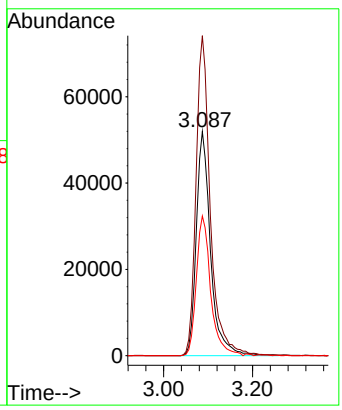




#21
trans-1,2-Dichloroethene
Concen: 53.949 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 96 Resp: 11613

Ion	Ratio	Lower	Upper
96	100		
61	142.7	116.2	174.2
98	62.3	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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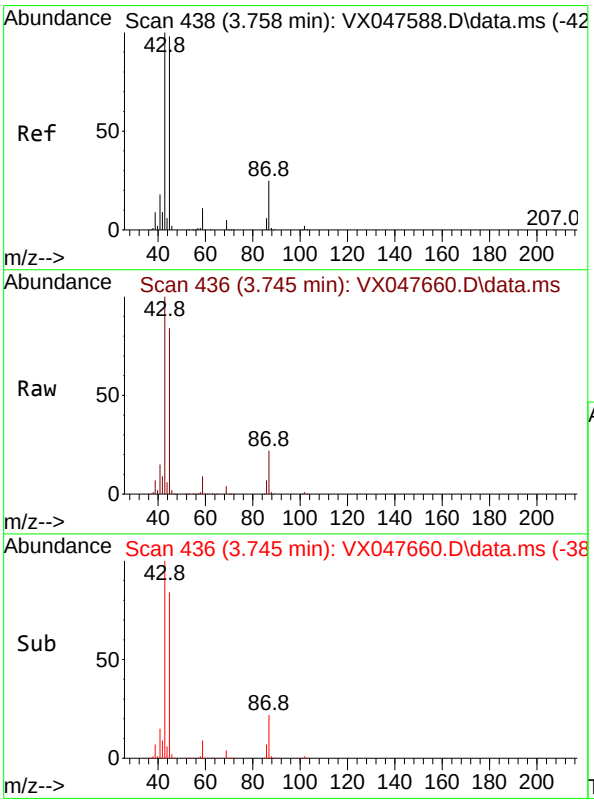
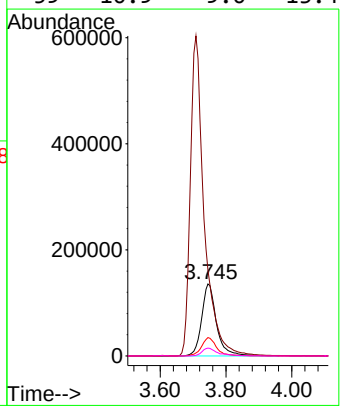
Supervised By :Mahesh Dadoda 09/22/2025

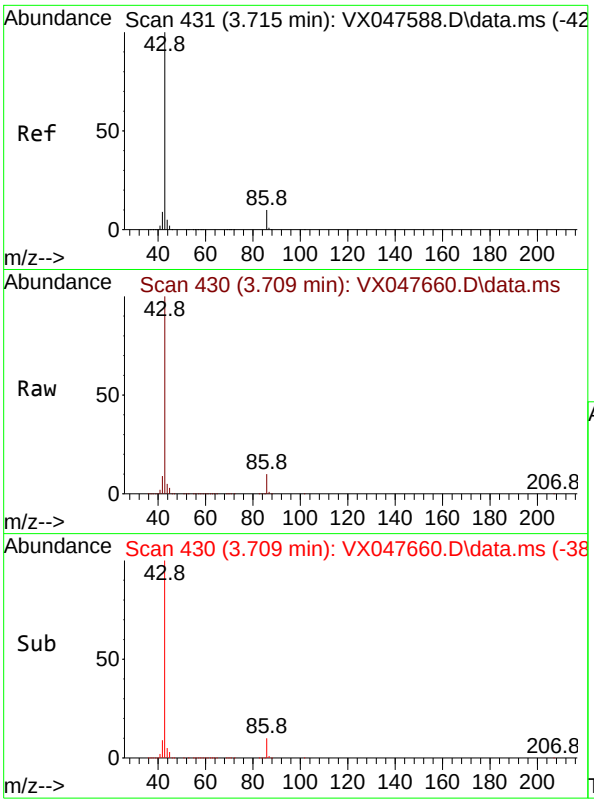


#22
Diisopropyl ether
Concen: 53.122 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 45 Resp: 424760

Ion	Ratio	Lower	Upper
45	100		
43	118.6	81.0	121.4
87	25.6	20.3	30.5
59	10.9	9.0	13.4

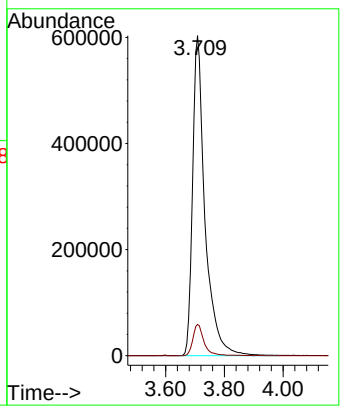




#23
Vinyl Acetate
Concen: 277.456 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 177558

Ion	Ratio	Lower	Upper
43	100		
86	9.7	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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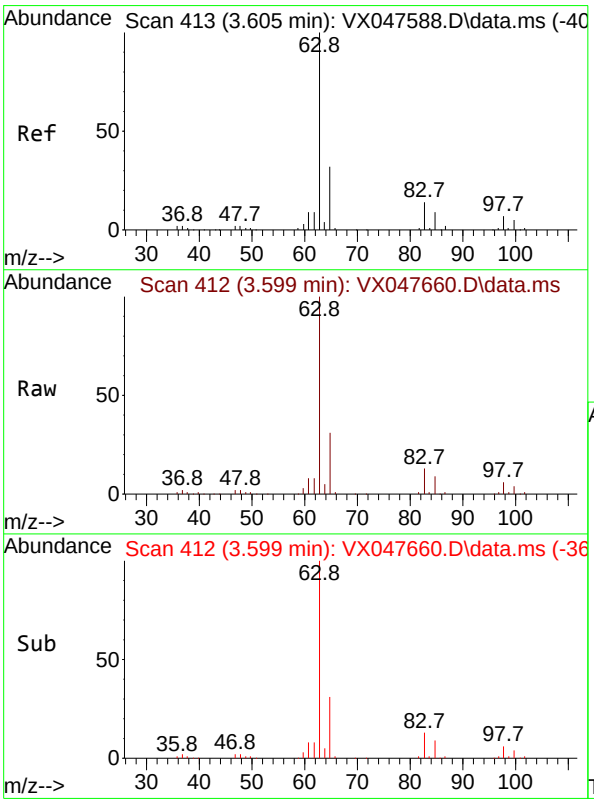
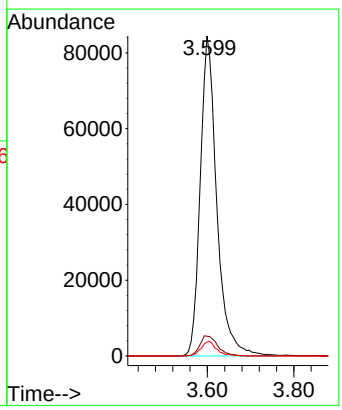
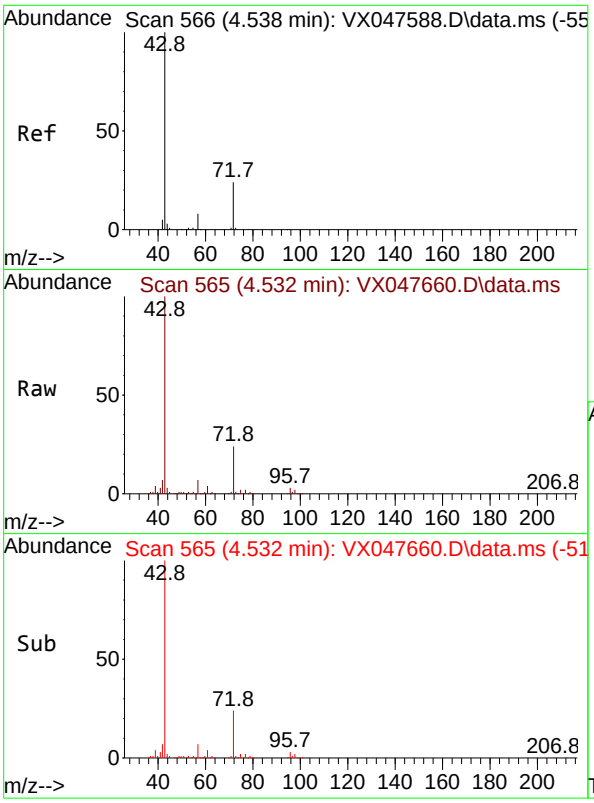


#24
1,1-Dichloroethane
Concen: 52.689 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 63 Resp: 223923

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.3	2.3	6.9

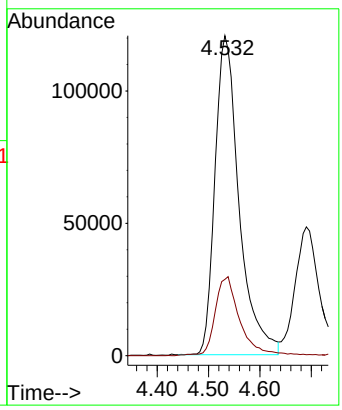




#25
2-Butanone
Concen: 270.370 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 39279

Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.1	30.1



Instrument :
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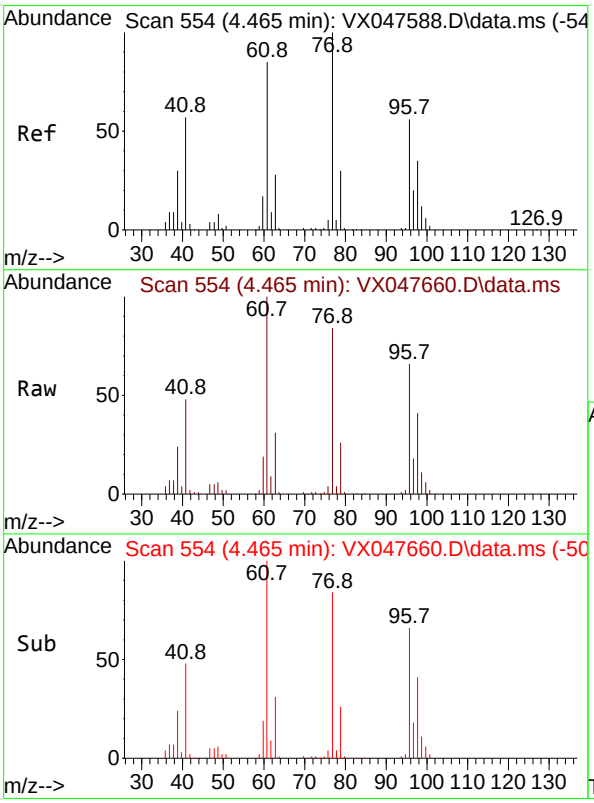
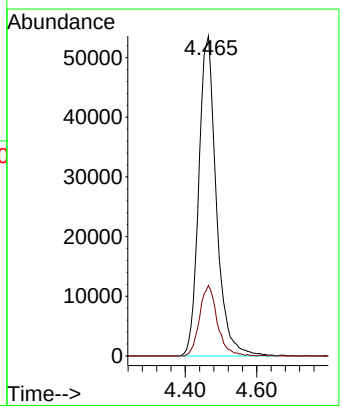
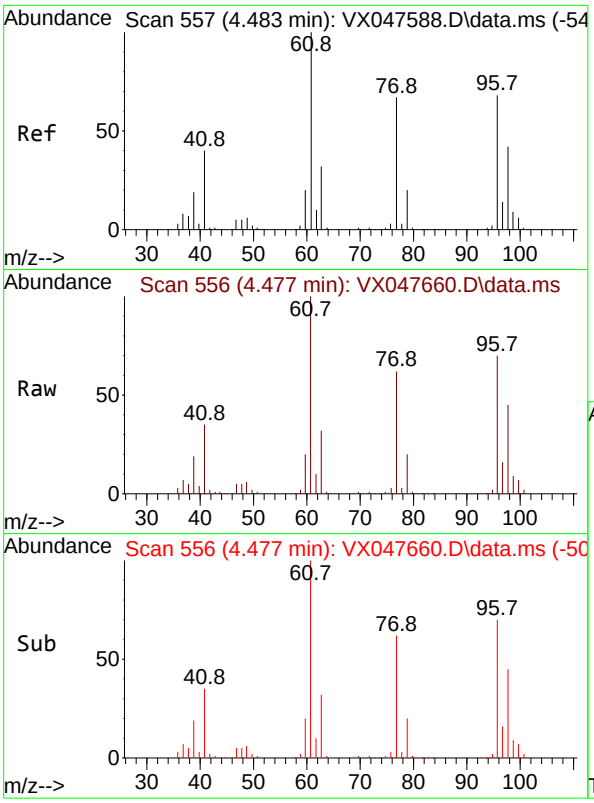


#26
2,2-Dichloropropane
Concen: 51.709 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 77 Resp: 182677

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7

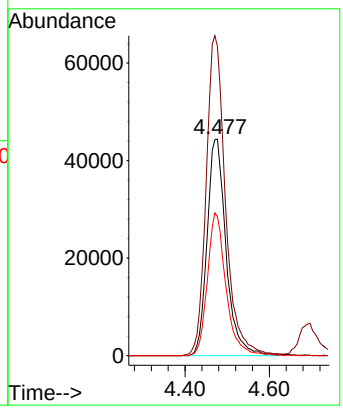




#27
cis-1,2-Dichloroethene
Concen: 52.862 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 96 Resp: 13935

Ion	Ratio	Lower	Upper
96	100		
61	150.1	0.0	303.2
98	64.1	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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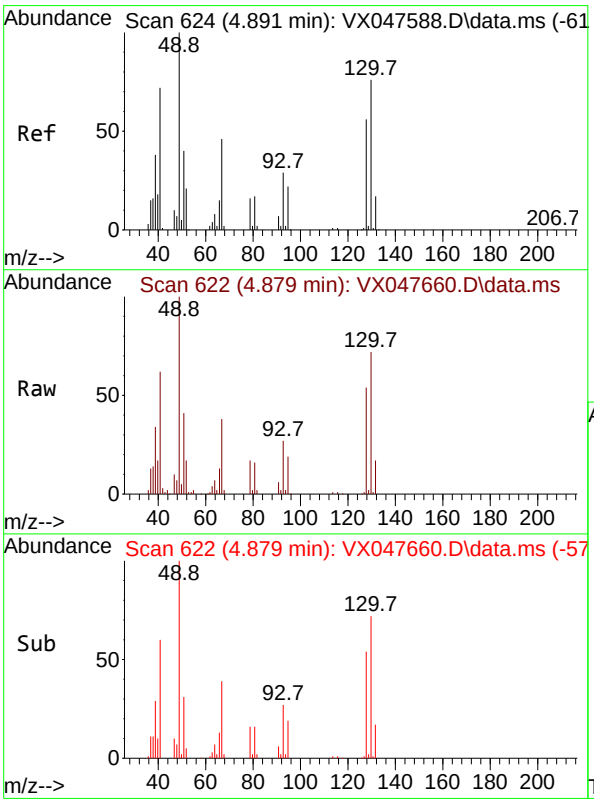
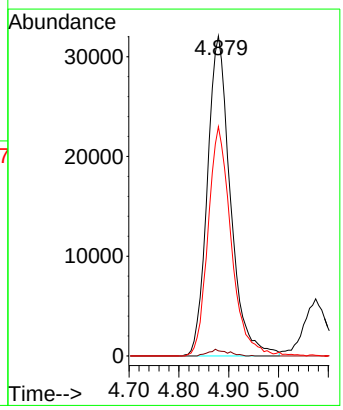
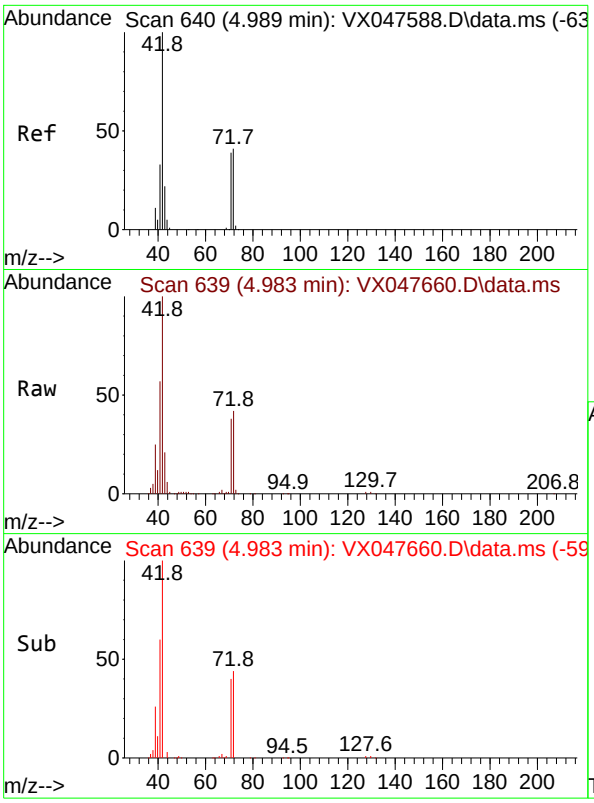


#28
Bromochloromethane
Concen: 55.493 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 49 Resp: 102961

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	71.6	57.8	86.8

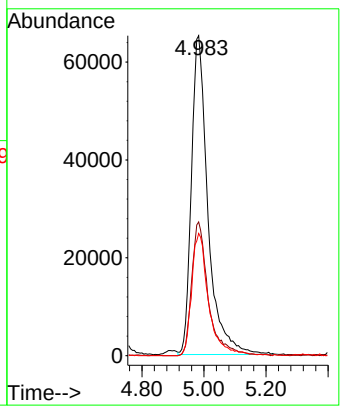




#29
Tetrahydrofuran
Concen: 275.412 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 42 Resp: 24070

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.3	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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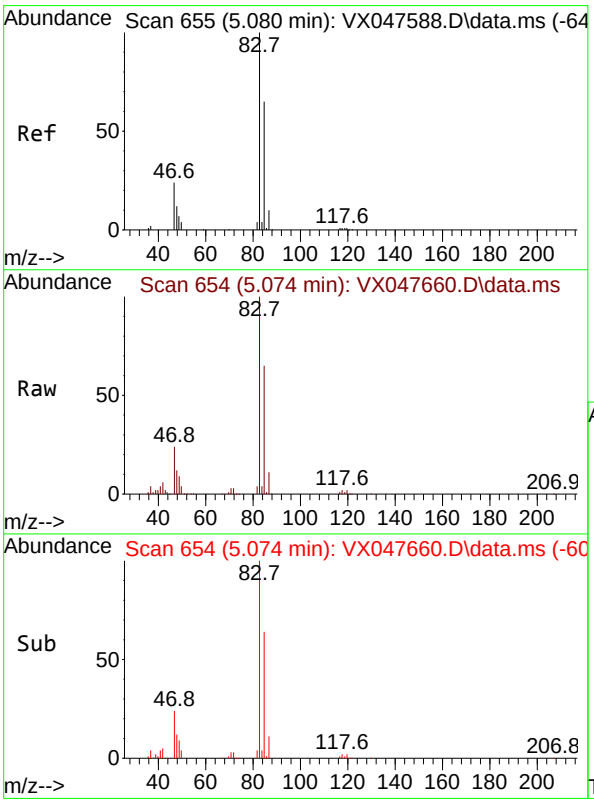
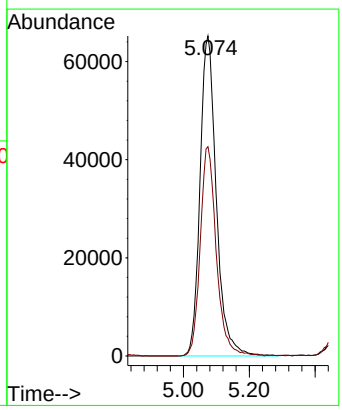
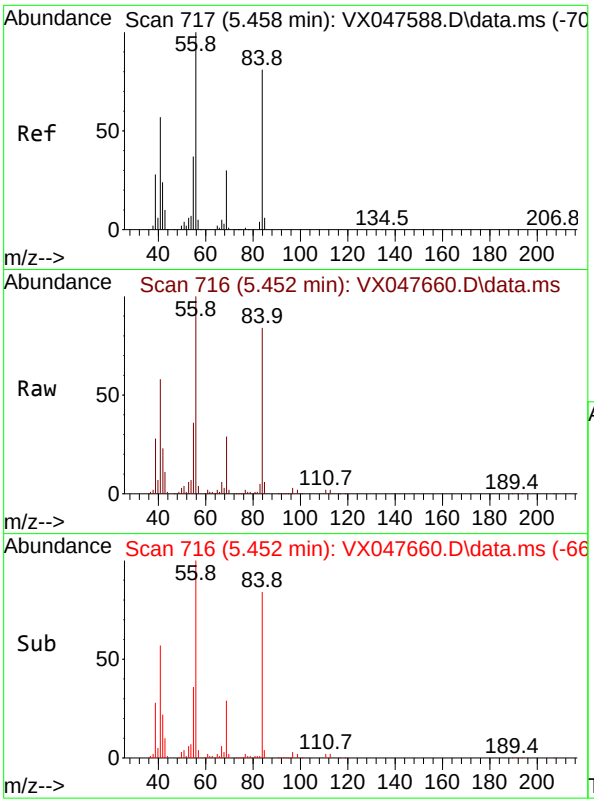


#30
Chloroform
Concen: 52.250 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 83 Resp: 224397

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.8	77.6

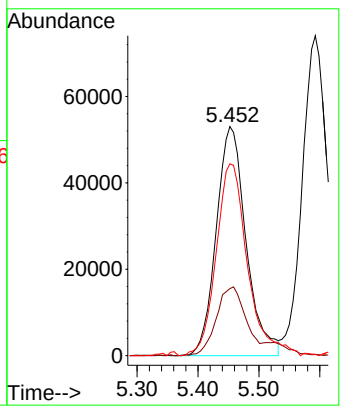




#31
Cyclohexane
Concen: 50.989 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 56 Resp: 18048

Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.8	35.8
84	83.5	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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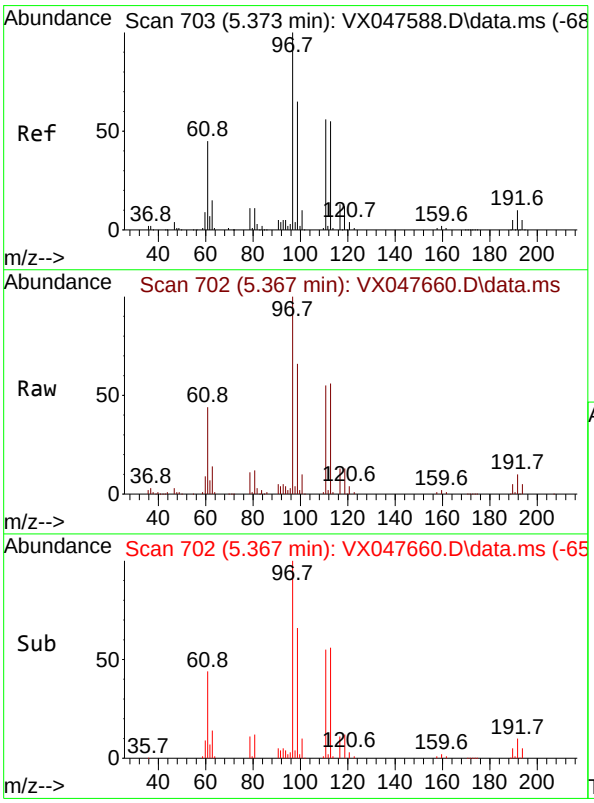
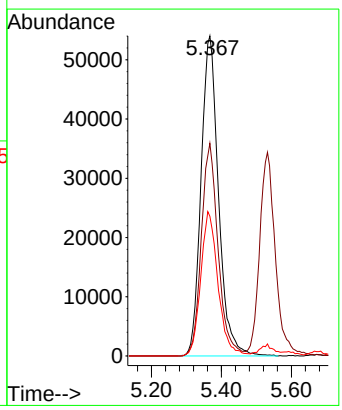
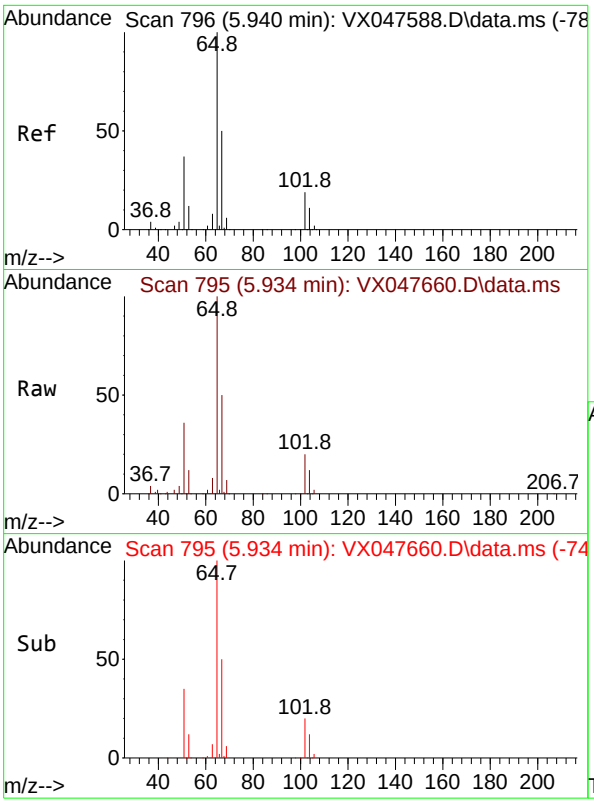


#32
1,1,1-Trichloroethane
Concen: 51.405 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 97 Resp: 187258

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.6	76.0
61	44.8	35.8	53.8

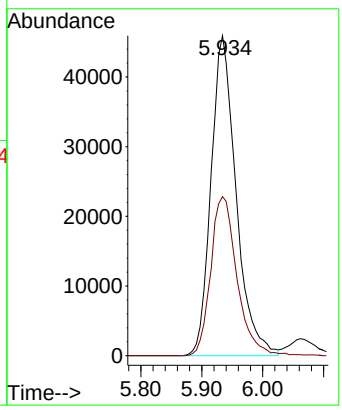




#33
1,2-Dichloroethane-d4
Concen: 48.921 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 65 Resp: 13104

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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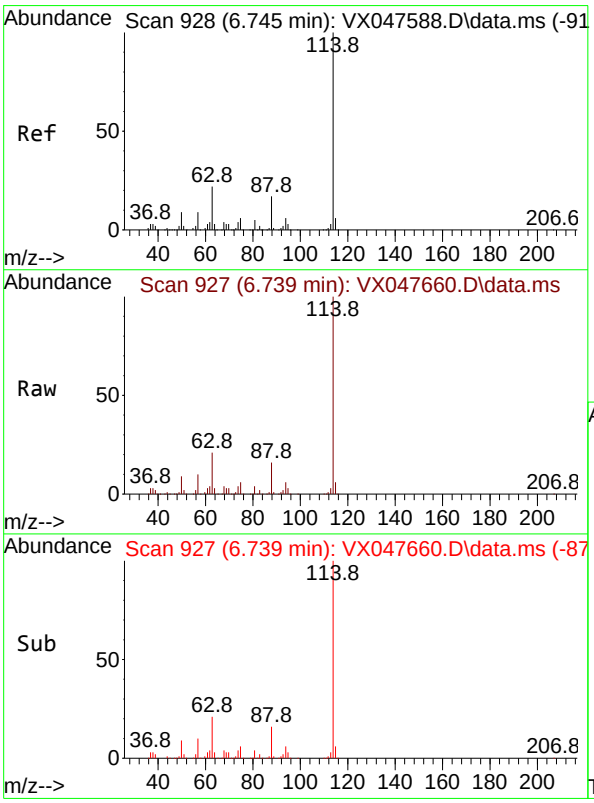
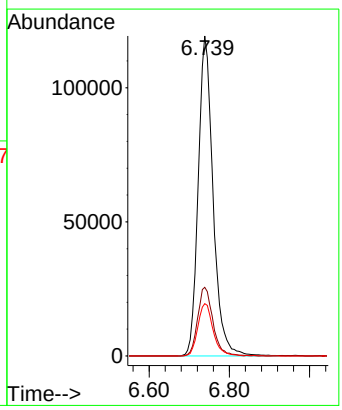
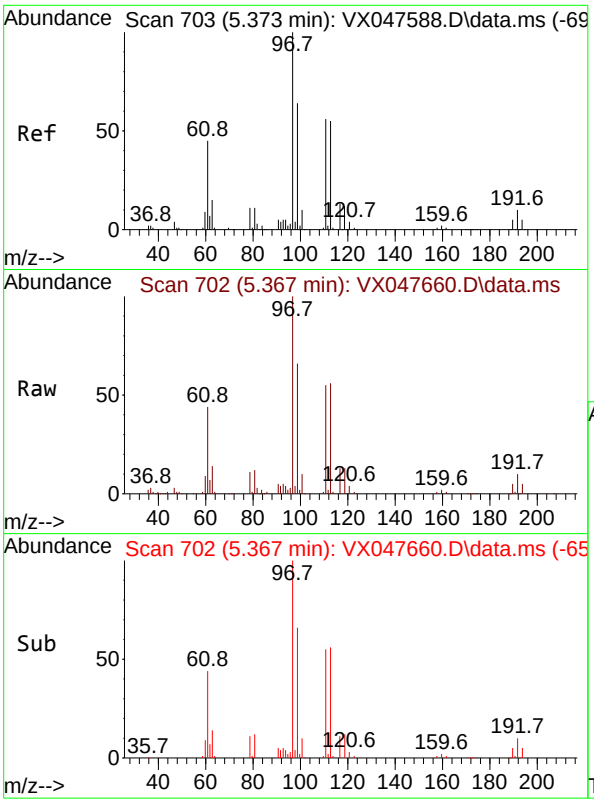


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:114 Resp: 306730

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	44.0
88	16.4	0.0	34.2

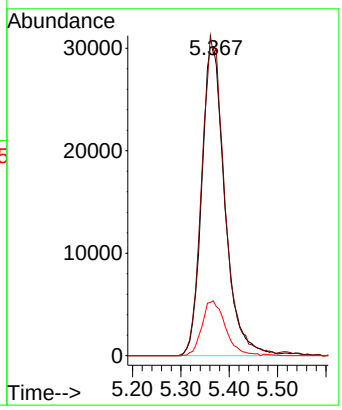




#35
Dibromofluoromethane
Concen: 48.985 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:113 Resp: 10076

Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.9	121.3
192	17.9	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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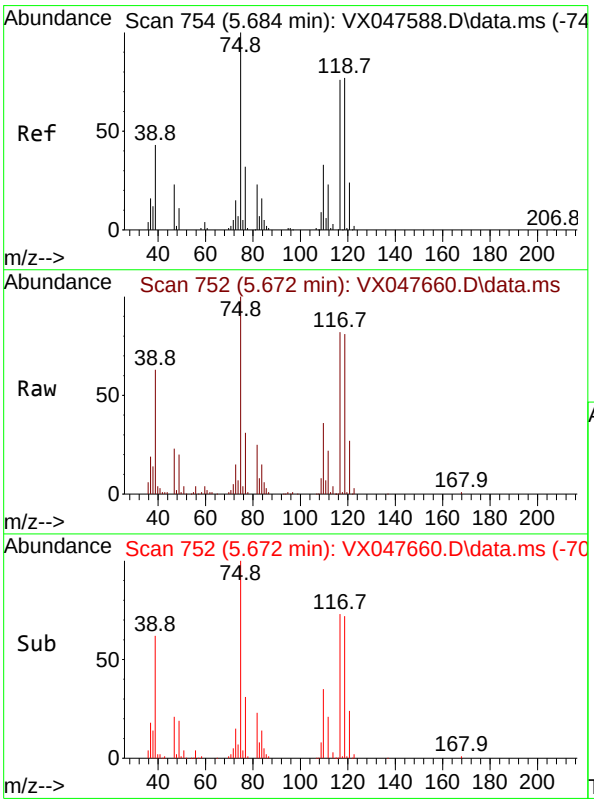
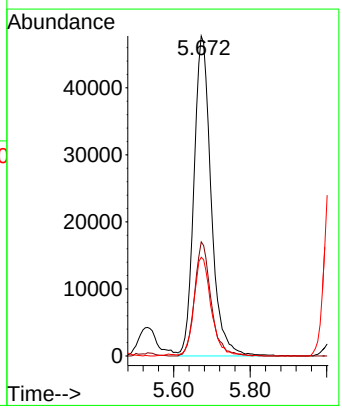
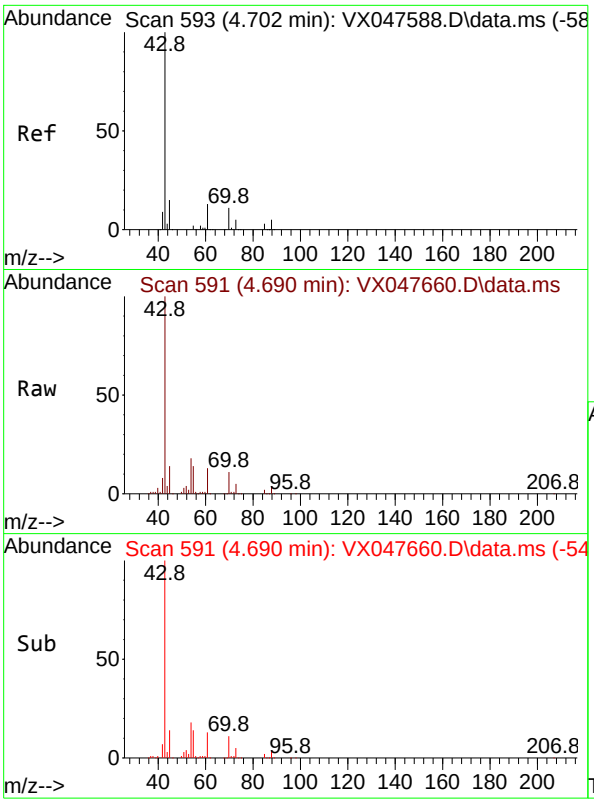


#36
1,1-Dichloropropene
Concen: 49.472 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 148709

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.7	50.1
77	31.1	24.3	36.5

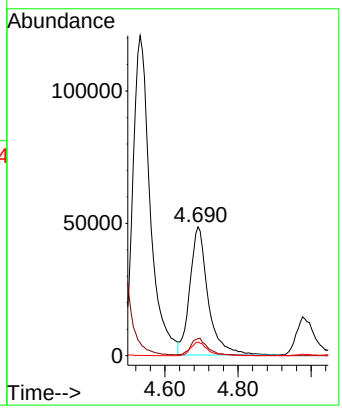




#37
Ethyl Acetate
Concen: 52.177 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 16793

Ion	Ratio	Lower	Upper
43	100		
61	13.5	9.8	14.8
70	9.9	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
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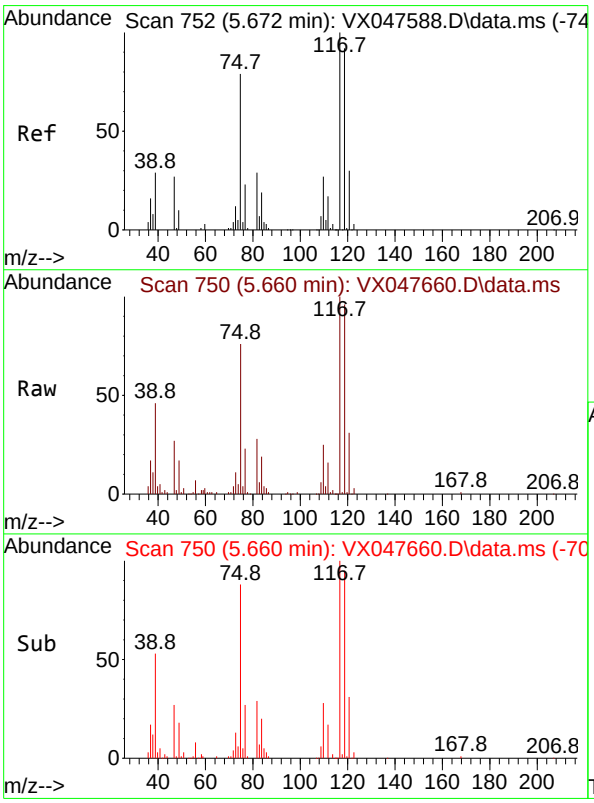
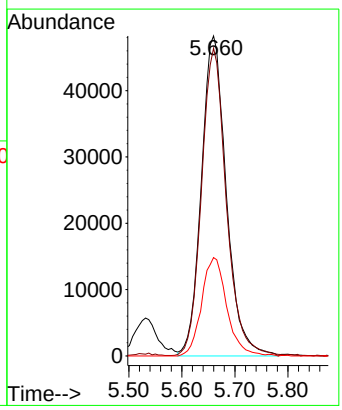
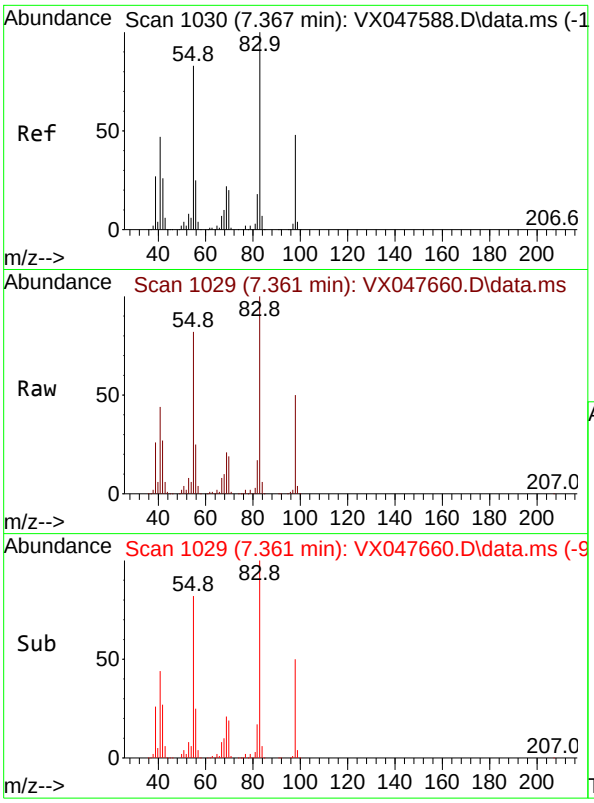


#38
Carbon Tetrachloride
Concen: 48.399 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:117 Resp: 158068

Ion	Ratio	Lower	Upper
117	100		
119	95.7	73.4	110.2
121	30.7	23.8	35.6

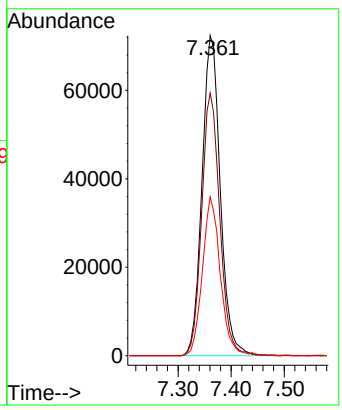




#39
Methylcyclohexane
Concen: 50.798 ug/l
RT: 7.361 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 83 Resp: 17332

Ion	Ratio	Lower	Upper
83	100		
55	82.0	66.4	99.6
98	49.6	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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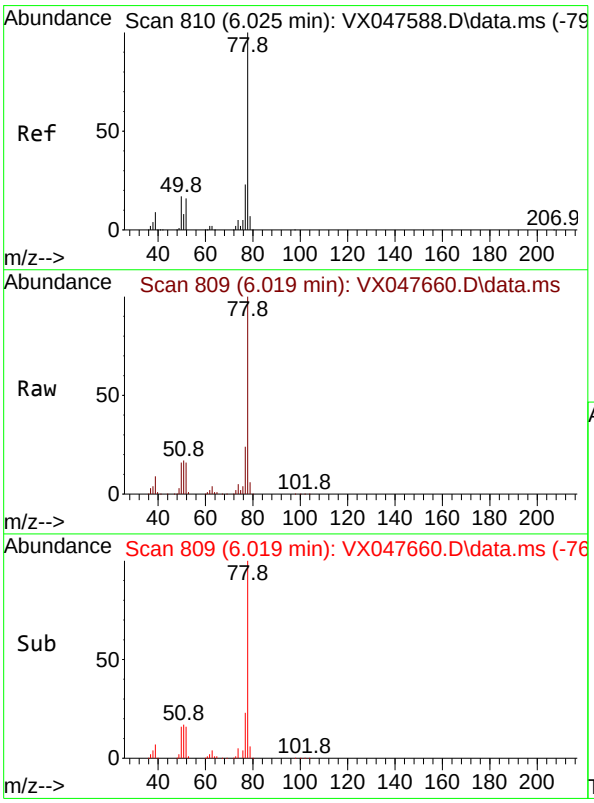
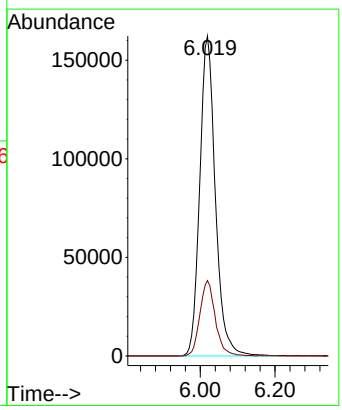
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

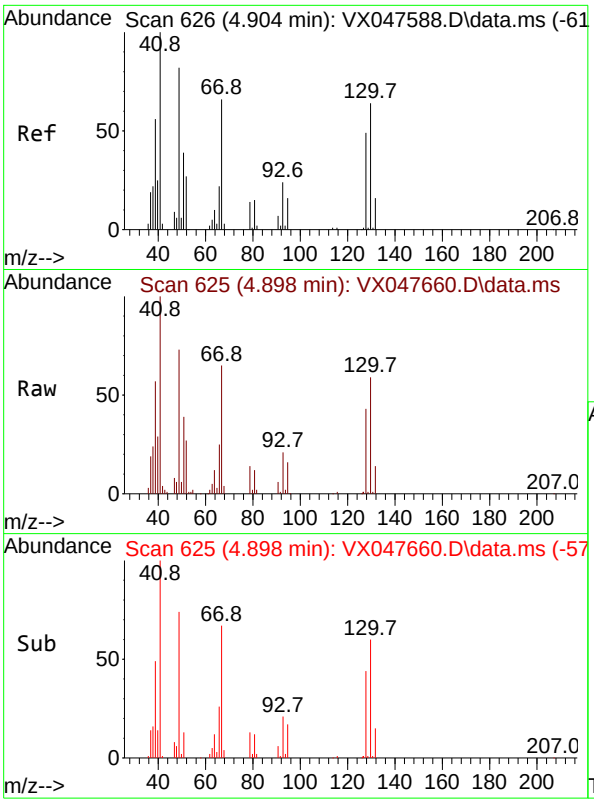


#40
Benzene
Concen: 51.478 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 78 Resp: 469978

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2

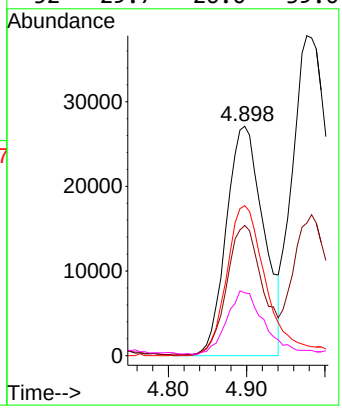




#41
Methacrylonitrile
Concen: 54.019 ug/l
RT: 4.898 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 41 Resp: 8975

Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.3	64.9
67	70.9	58.6	87.8
52	29.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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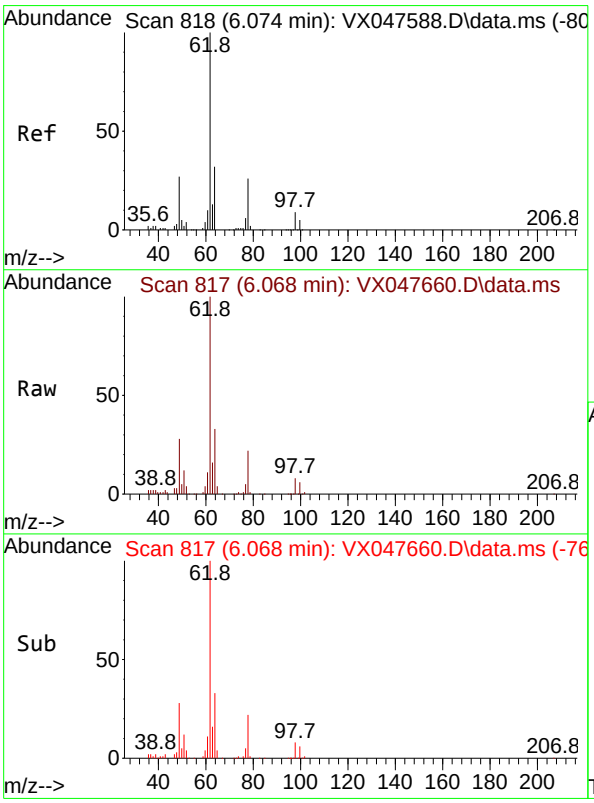
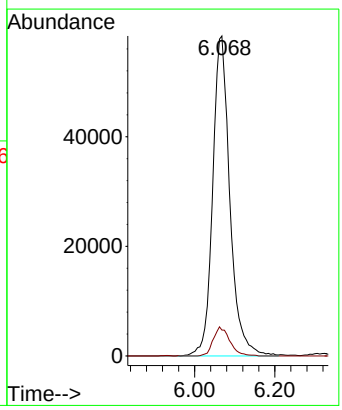
Supervised By :Mahesh Dadoda 09/22/2025

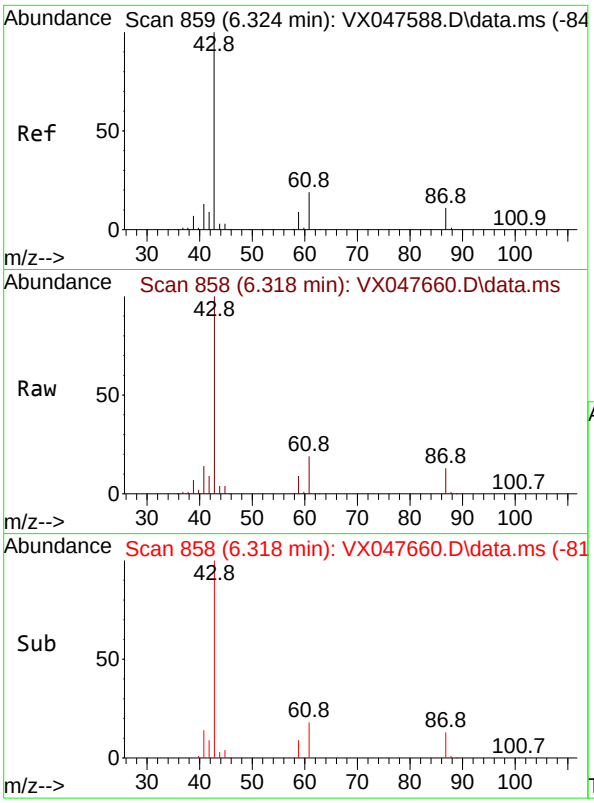


#42
1,2-Dichloroethane
Concen: 50.041 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 62 Resp: 173829

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.0





#43
Isopropyl Acetate
Concen: 51.124 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 26985

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.2	22.8
87	12.5	9.6	14.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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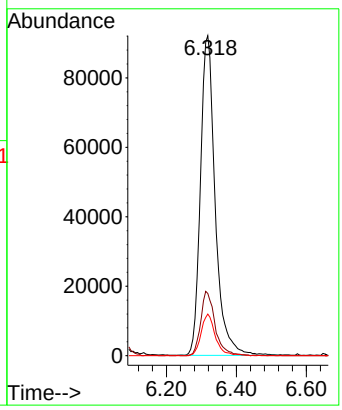
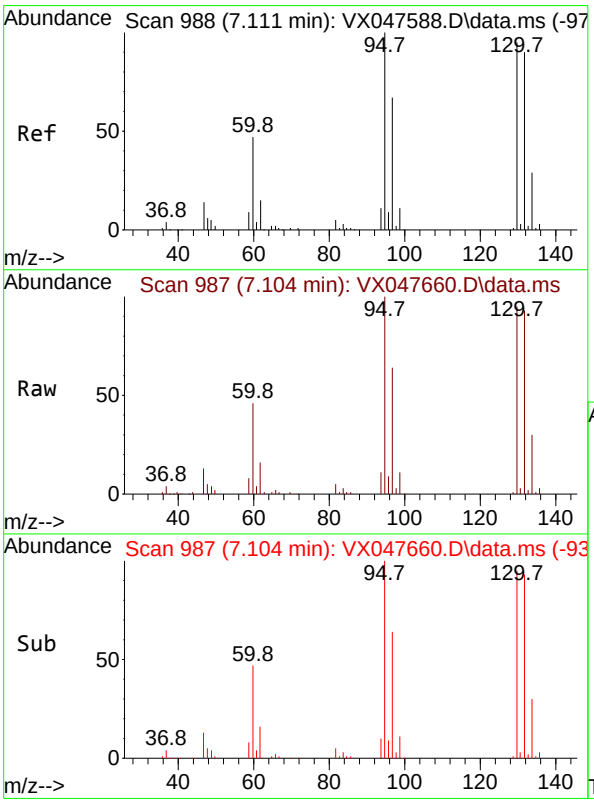
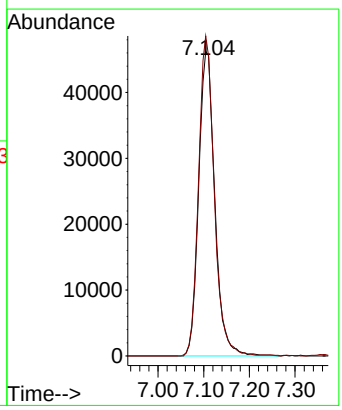


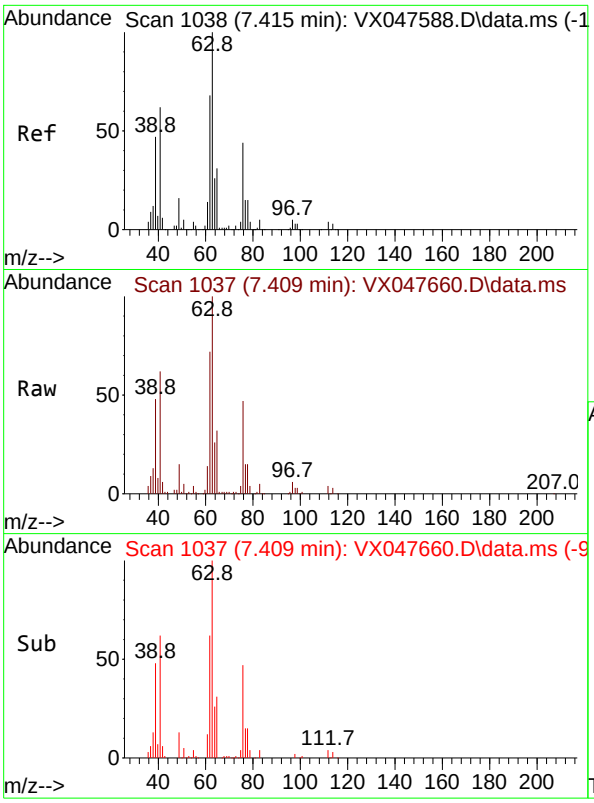


#44
Trichloroethene
Concen: 51.491 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:130 Resp: 113653

Ion	Ratio	Lower	Upper
130	100		
95	105.1	0.0	210.8

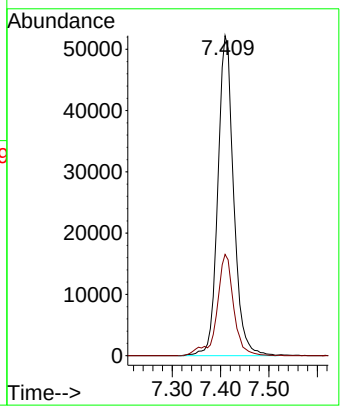




#45
1,2-Dichloropropane
Concen: 50.706 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 63 Resp: 11854

Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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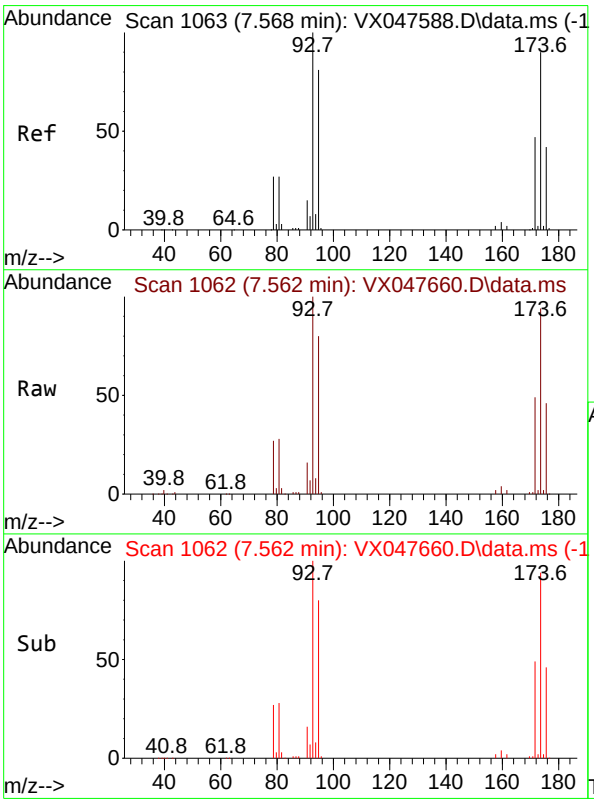
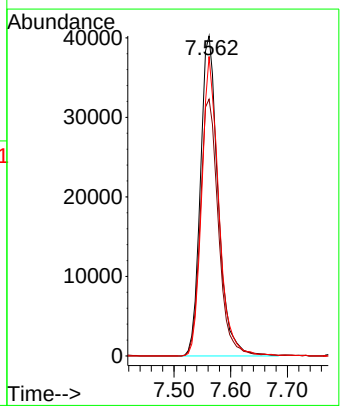
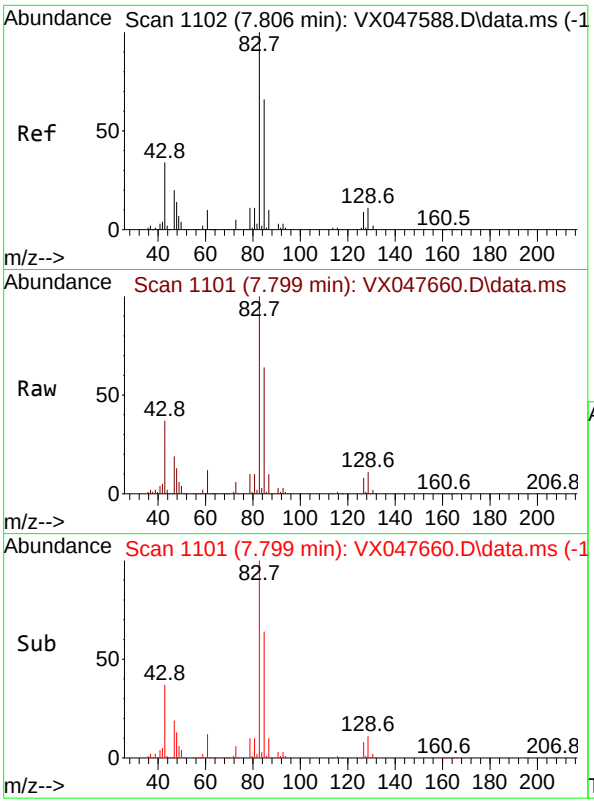


#46
Dibromomethane
Concen: 51.314 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 93 Resp: 87295

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.0	97.6
174	90.0	71.6	107.4

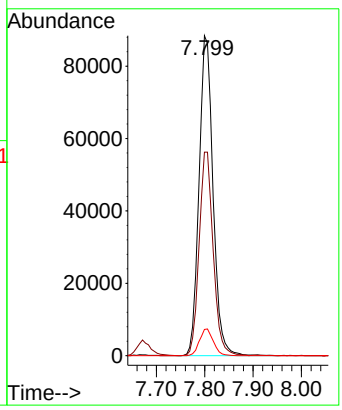




#47
Bromodichloromethane
Concen: 50.681 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 83 Resp: 17791

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.5	78.7
127	8.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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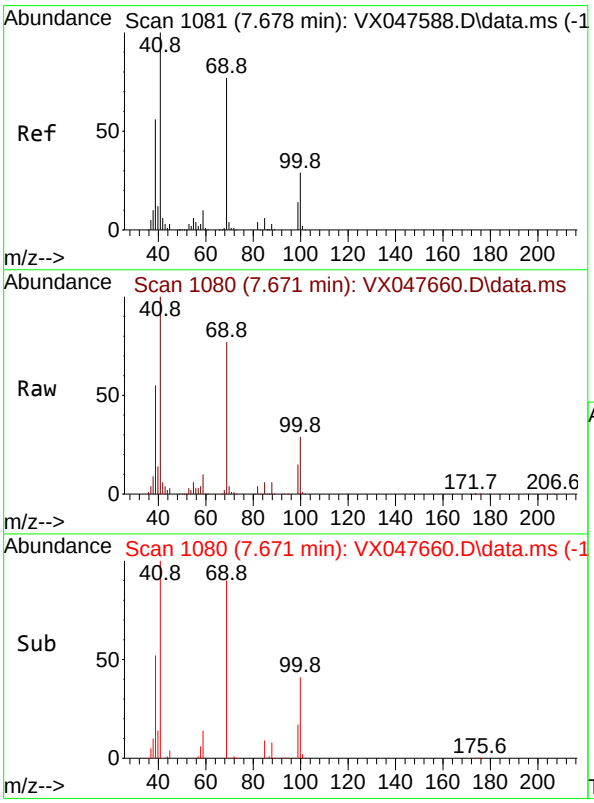
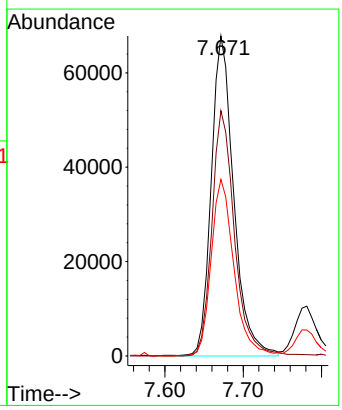
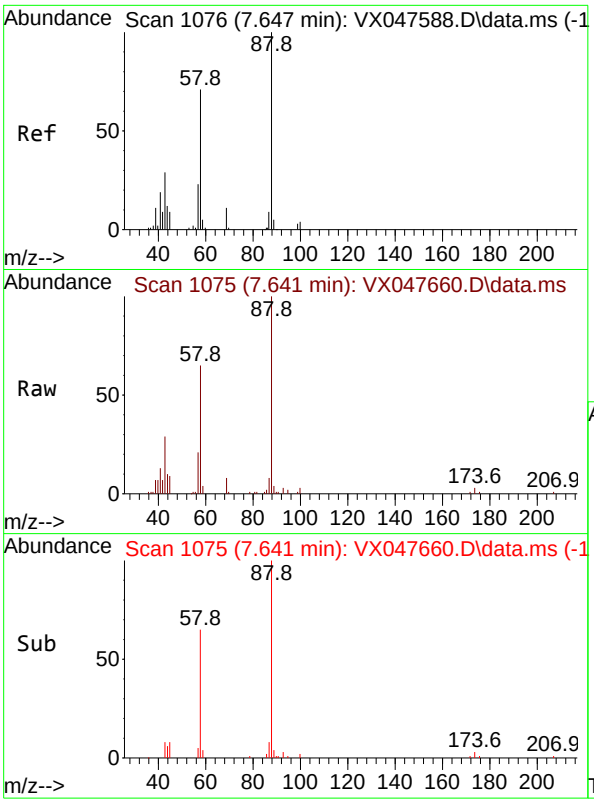


#48
Methyl methacrylate
Concen: 51.542 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 41 Resp: 135518

Ion	Ratio	Lower	Upper
41	100		
69	77.2	61.4	92.2
39	55.7	45.8	68.6





#49
1,4-Dioxane
Concen: 1265.071 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 88 Resp: 3361

Ion	Ratio	Lower	Upper
88	100		
43	37.3	30.2	45.2
58	72.3	59.5	89.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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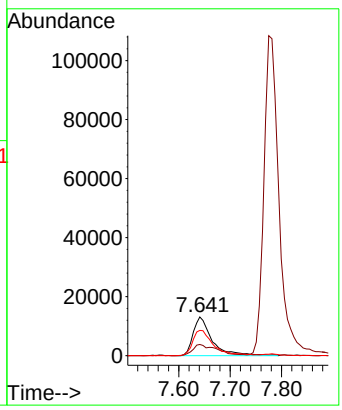
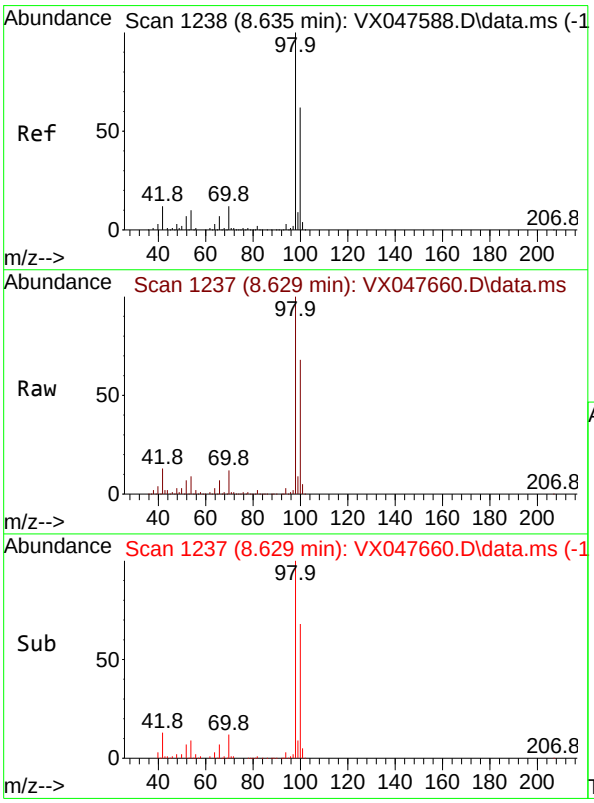
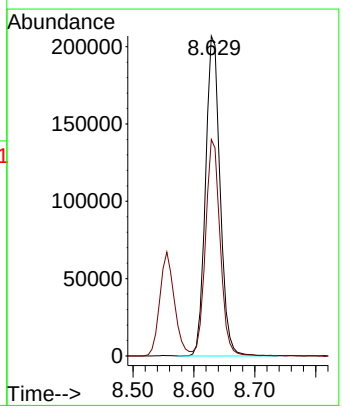


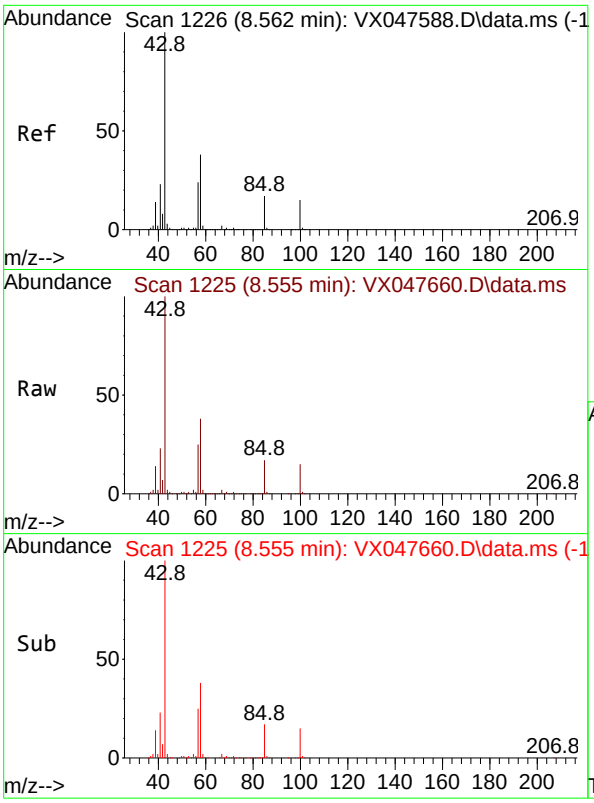


#50
Toluene-d8
Concen: 48.346 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 98 Resp: 344123

Ion	Ratio	Lower	Upper
98	100		
100	67.6	53.0	79.4

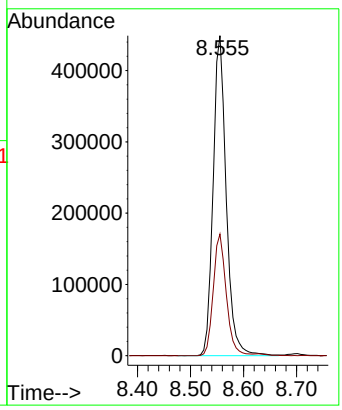




#51
4-Methyl-2-Pentanone
Concen: 263.992 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 77260

Ion	Ratio	Lower	Upper
43	100		
58	37.6	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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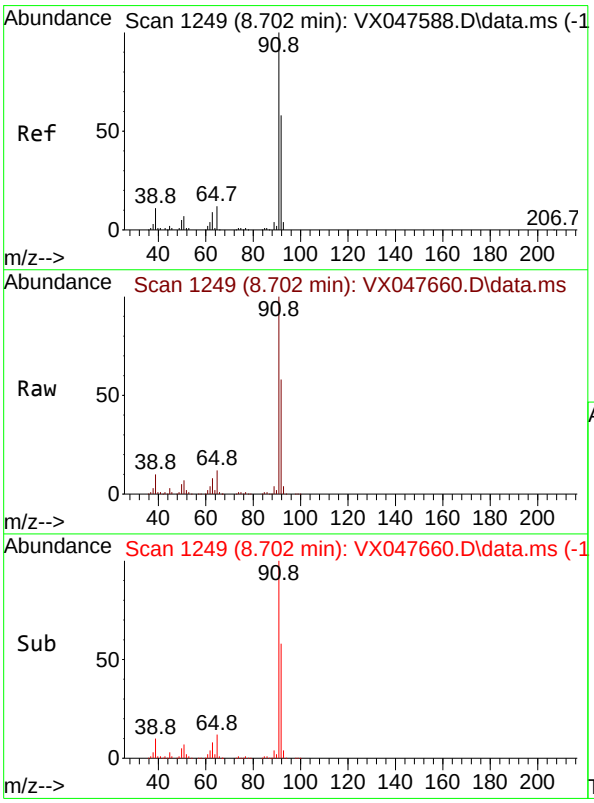
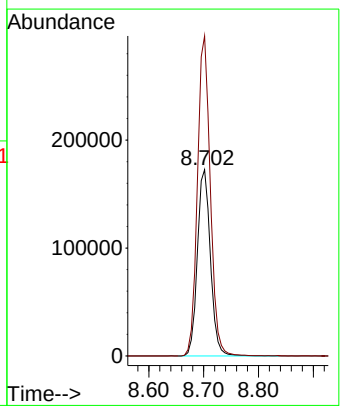
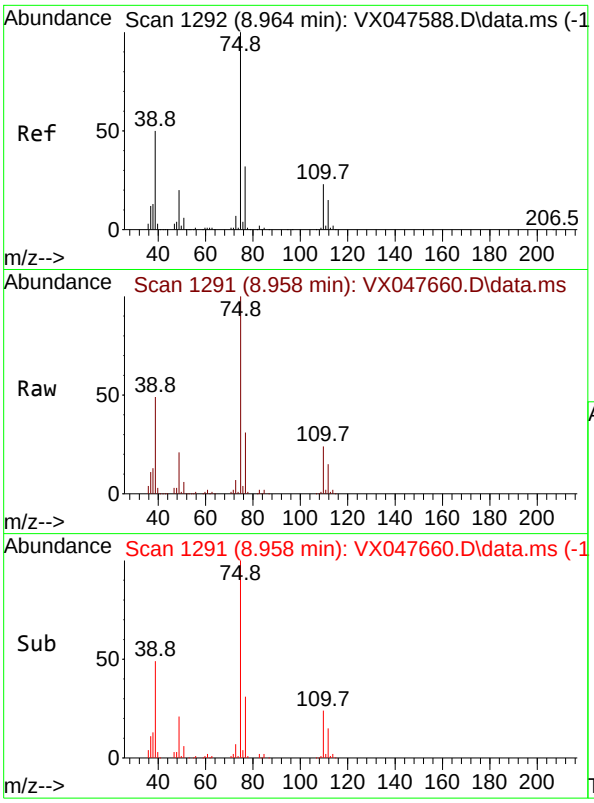


#52
Toluene
Concen: 50.732 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 92 Resp: 285358

Ion	Ratio	Lower	Upper
92	100		
91	169.5	137.1	205.7

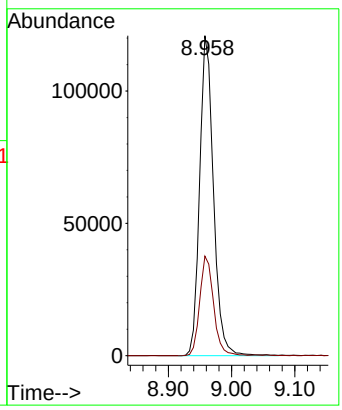




#53
t-1,3-Dichloropropene
Concen: 51.420 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 18412

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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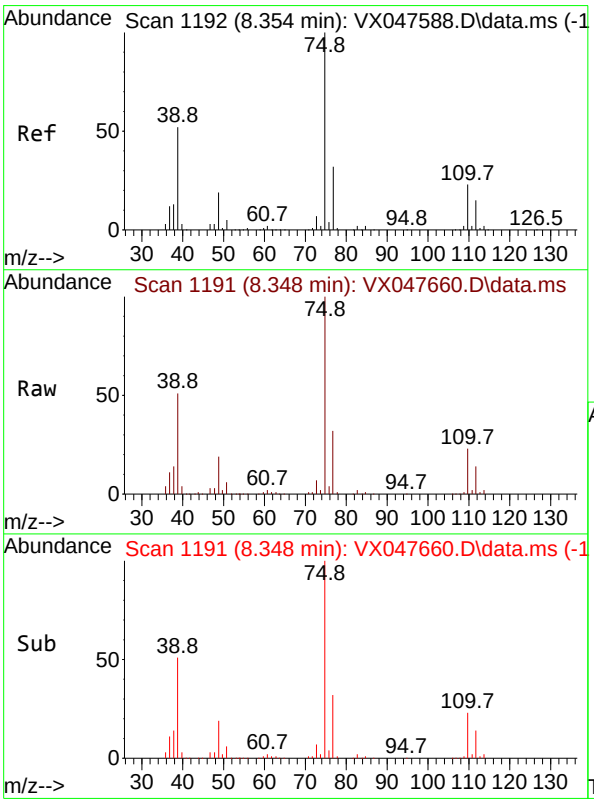
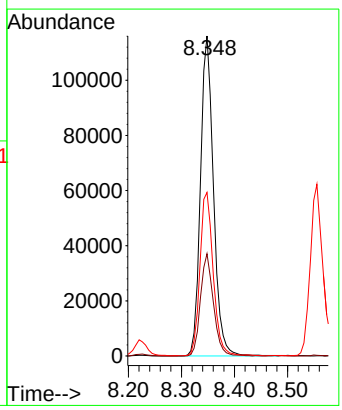
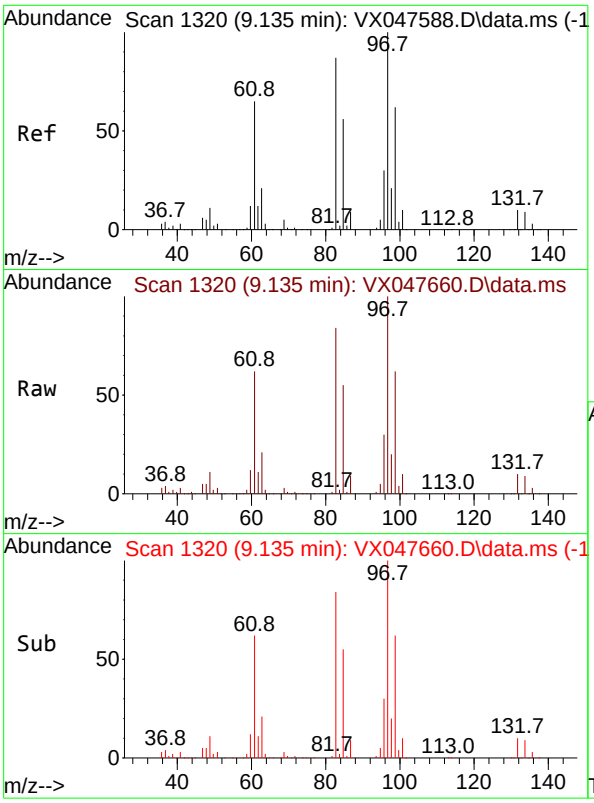


#54
cis-1,3-Dichloropropene
Concen: 51.767 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 198129

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.8	38.6
39	51.0	41.4	62.2

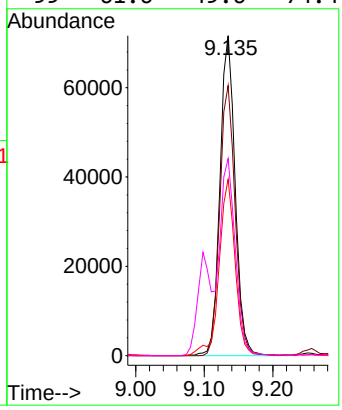




#55
1,1,2-Trichloroethane
Concen: 50.755 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 97 Resp: 11008

Ion	Ratio	Lower	Upper
97	100		
83	84.4	69.6	104.4
85	55.2	45.0	67.6
99	61.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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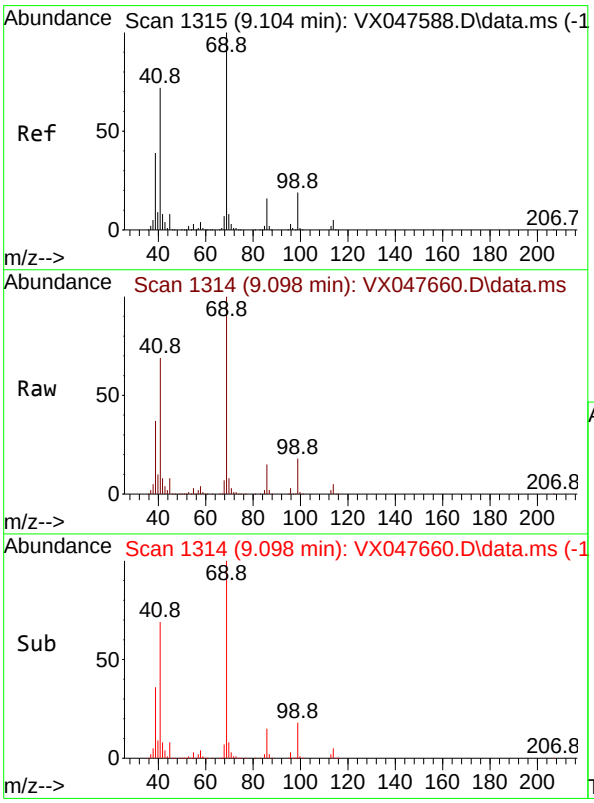
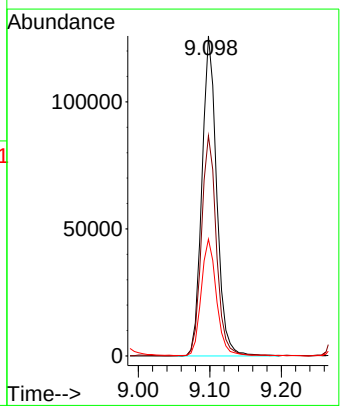
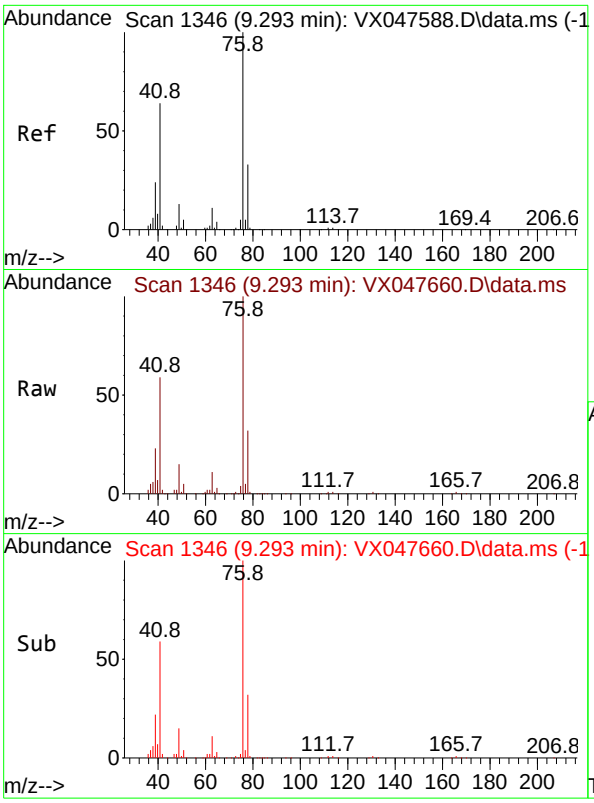


#56
Ethyl methacrylate
Concen: 53.155 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 69 Resp: 181056

Ion	Ratio	Lower	Upper
69	100		
41	69.5	58.6	87.8
39	37.3	31.5	47.3

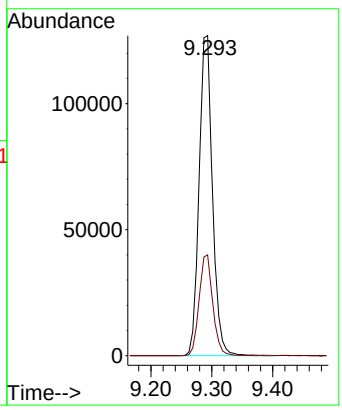




#57
1,3-Dichloropropane
Concen: 52.043 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 76 Resp: 19390

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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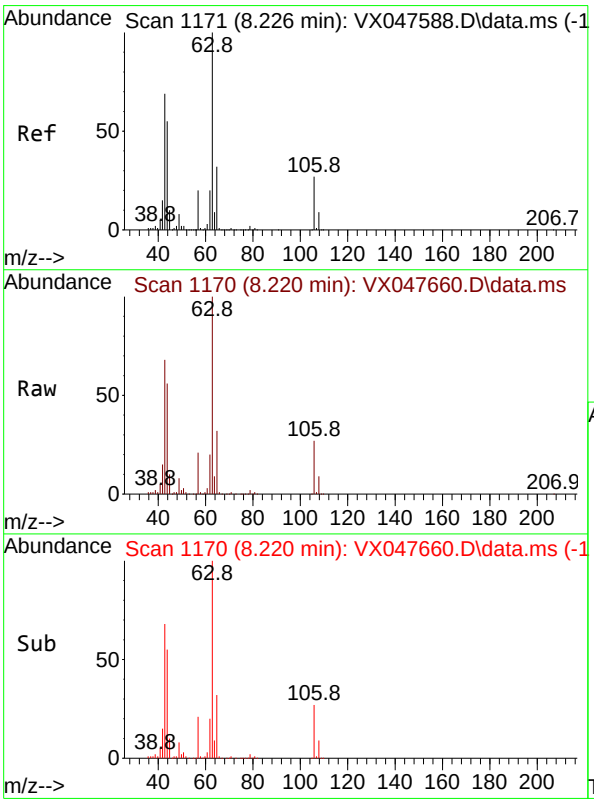
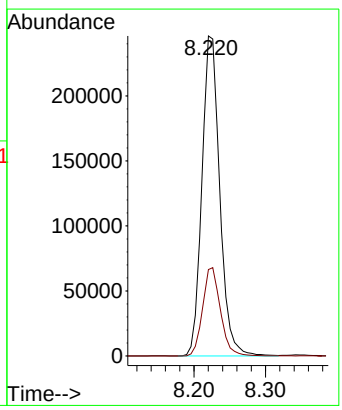
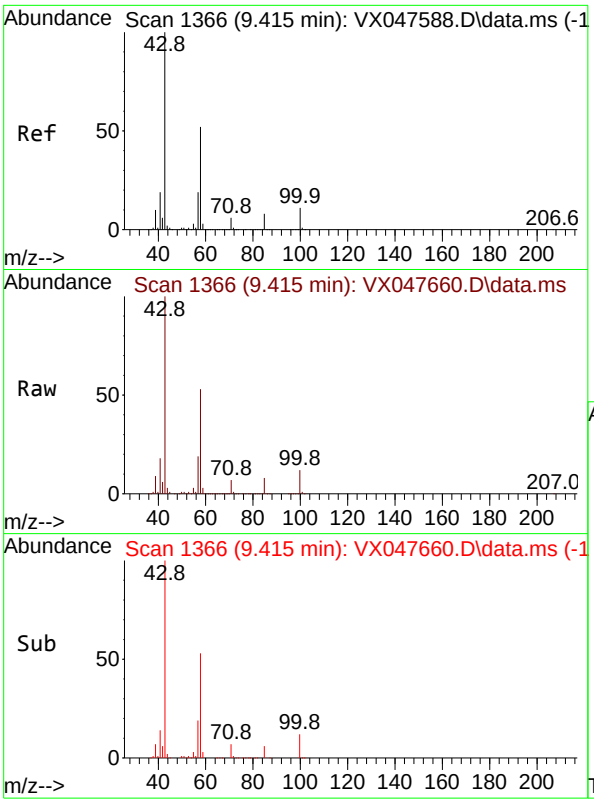


#58
2-Chloroethyl Vinyl ether
Concen: 261.332 ug/l
RT: 8.220 min Scan# 1170
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 63 Resp: 426594

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9





#59
2-Hexanone
Concen: 262.497 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 55174

Ion	Ratio	Lower	Upper
43	100		
58	53.3	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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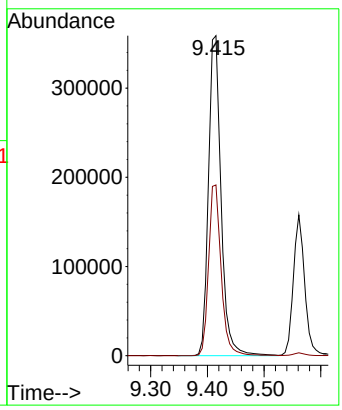
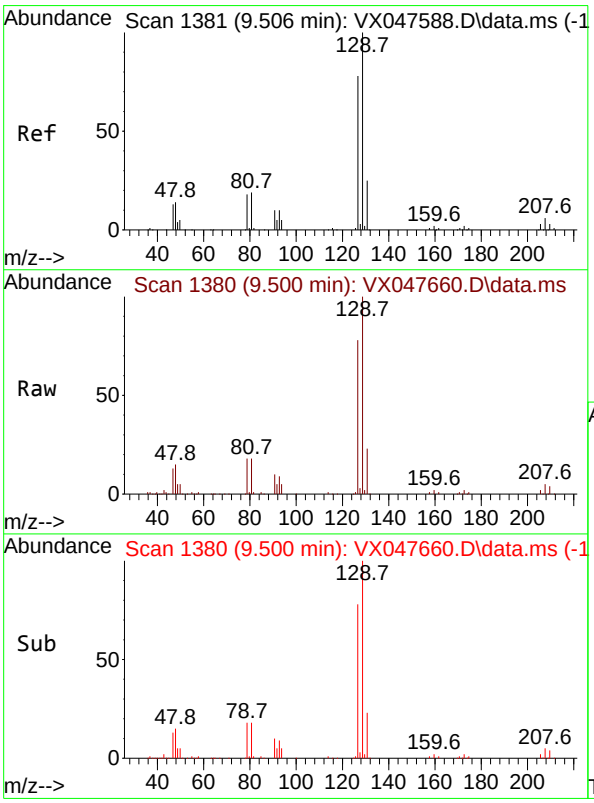
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

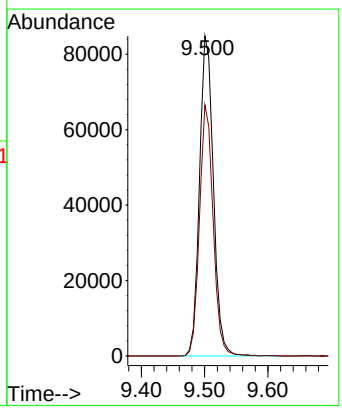


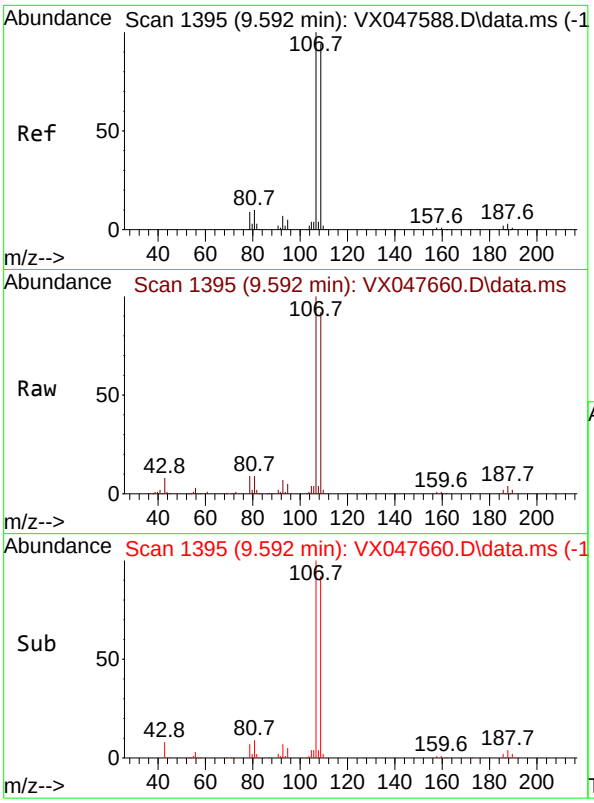


#60
Dibromochloromethane
Concen: 51.934 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:129 Resp: 129786

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.4	115.2

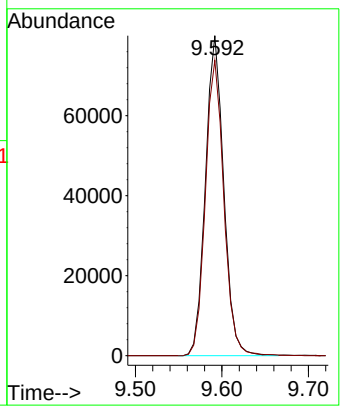




#61
1,2-Dibromoethane
Concen: 53.110 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:107 Resp: 11732

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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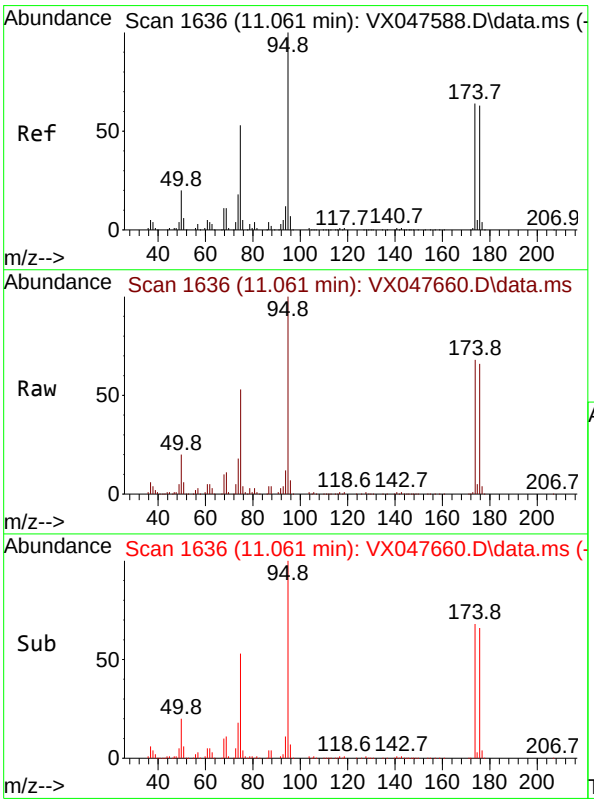
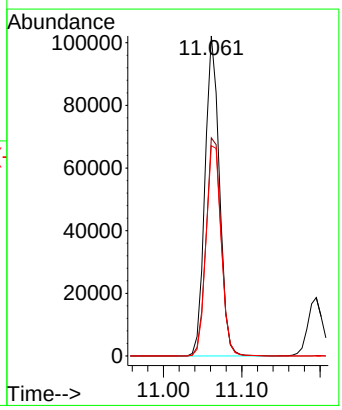
Supervised By :Mahesh Dadoda 09/22/2025

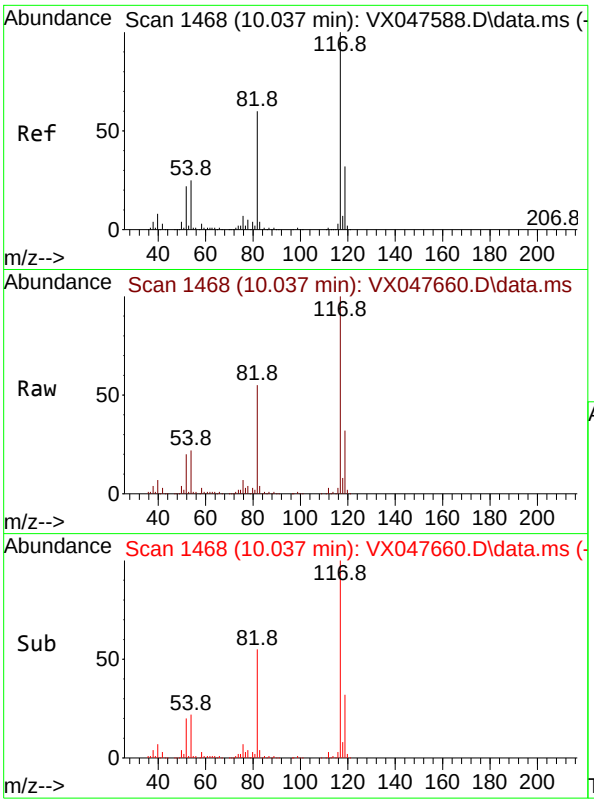


#62
4-Bromofluorobenzene
Concen: 48.202 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 95 Resp: 130212

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	141.6
176	69.3	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:117 Resp: 27226

Ion	Ratio	Lower	Upper
117	100		
82	55.1	47.8	71.6
119	32.3	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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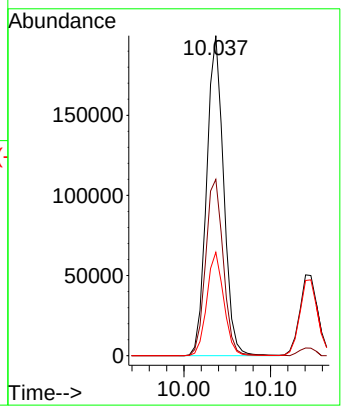
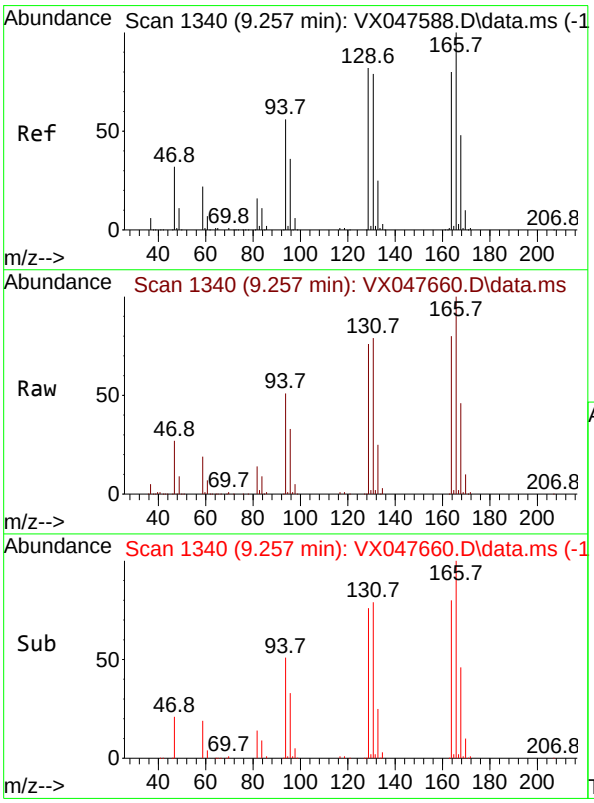
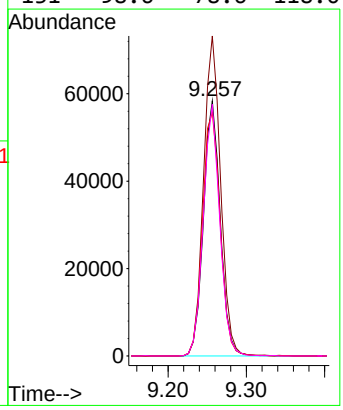


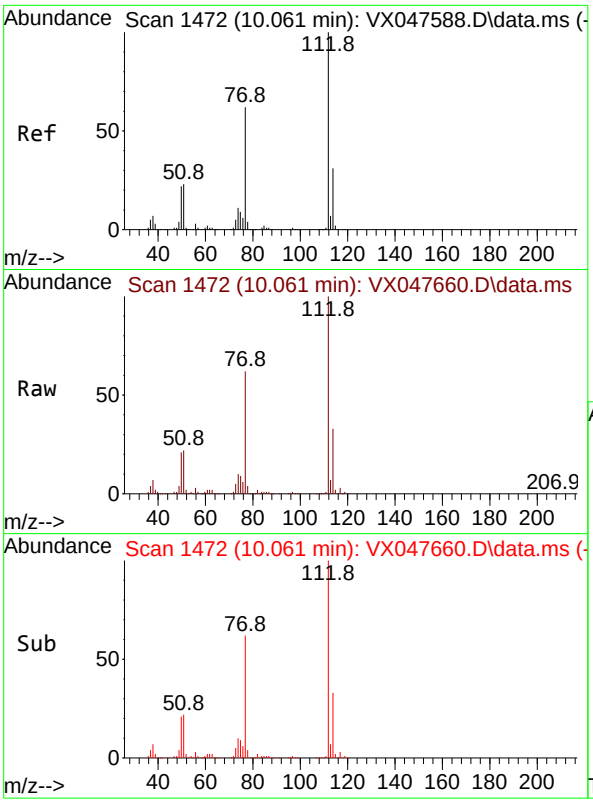


#64
Tetrachloroethene
Concen: 48.951 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:164 Resp: 86883

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.2	150.2
129	95.4	81.8	122.6
131	98.6	78.6	118.0





#65
Chlorobenzene
Concen: 49.899 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:112 Resp: 30864

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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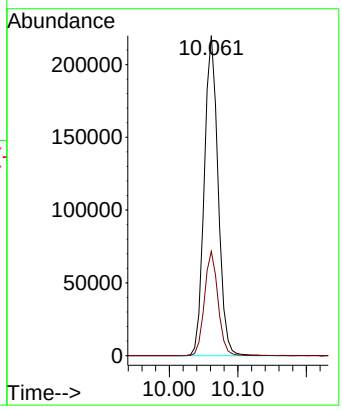
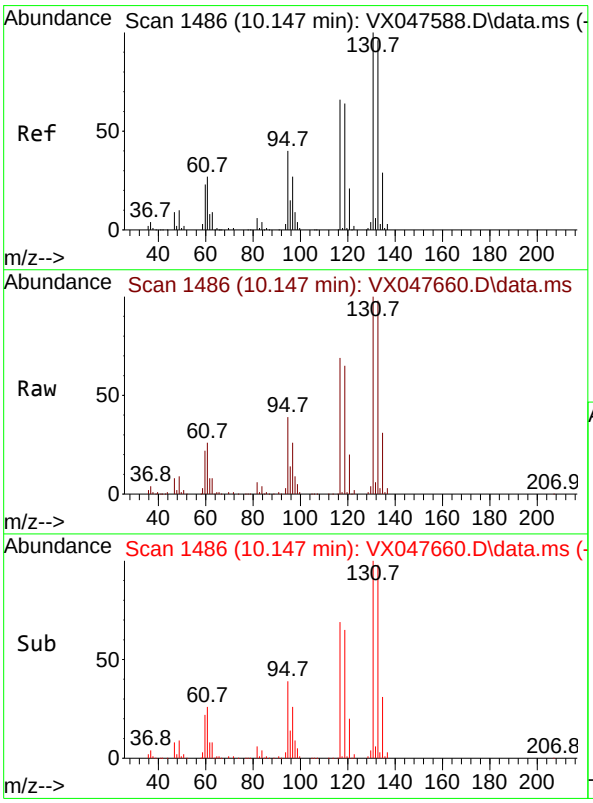
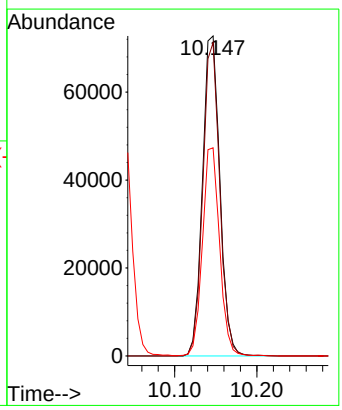


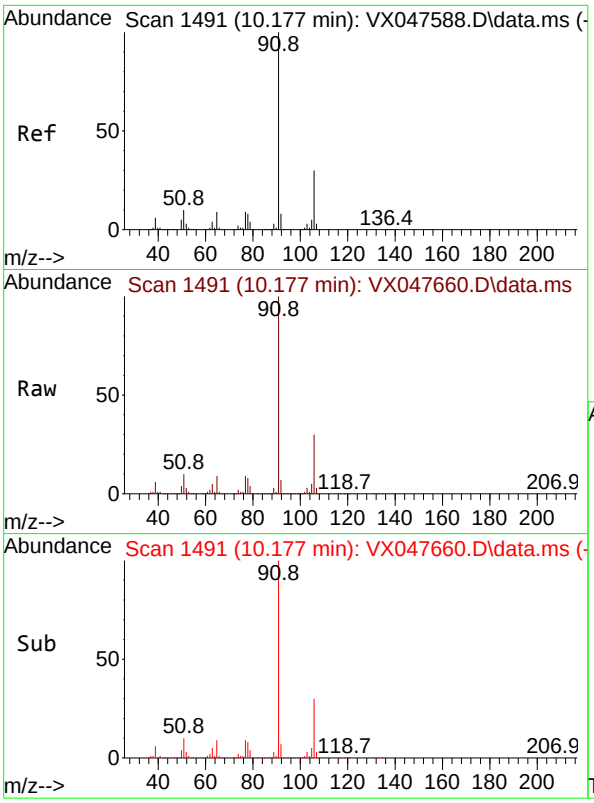


#66
1,1,1,2-Tetrachloroethane
Concen: 50.145 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:131 Resp: 107031

Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.3	142.0
119	64.2	32.0	96.0

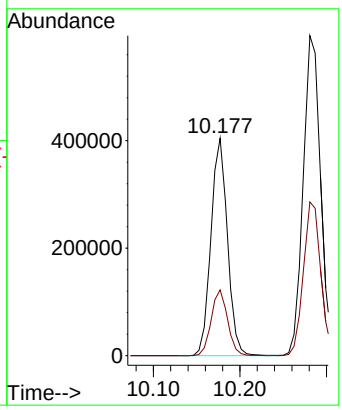




#67
Ethyl Benzene
Concen: 50.244 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 91 Resp: 53622

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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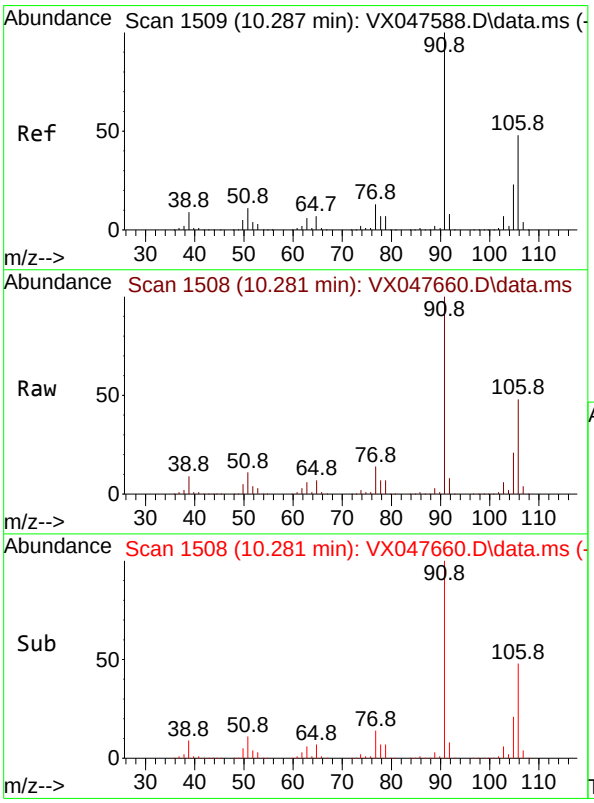
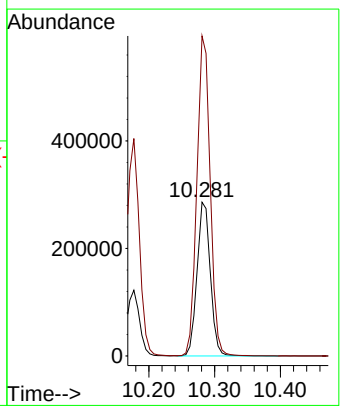
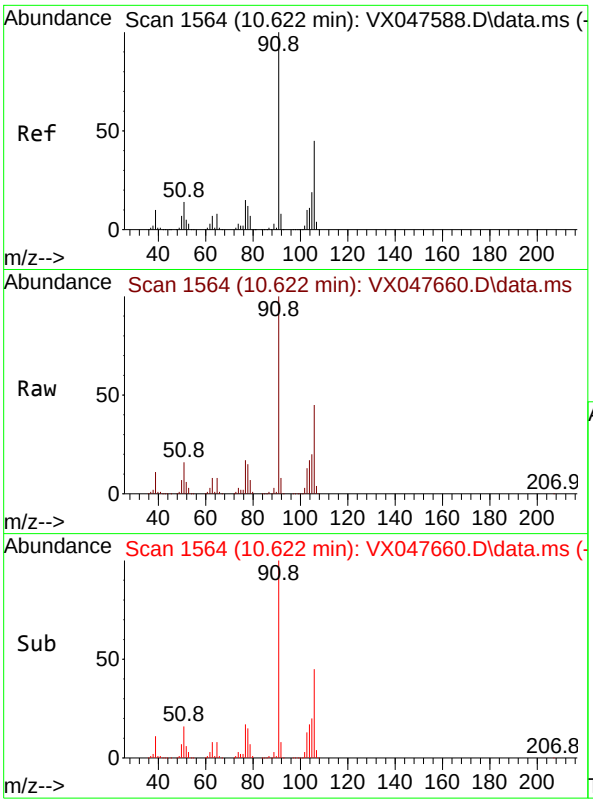


#68
m/p-Xylenes
Concen: 100.725 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:106 Resp: 400119

Ion	Ratio	Lower	Upper
106	100		
91	208.3	167.8	251.8

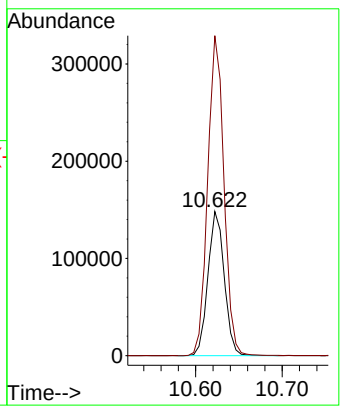




#69
o-Xylene
Concen: 50.618 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:106 Resp: 19448

Ion	Ratio	Lower	Upper
106	100		
91	220.8	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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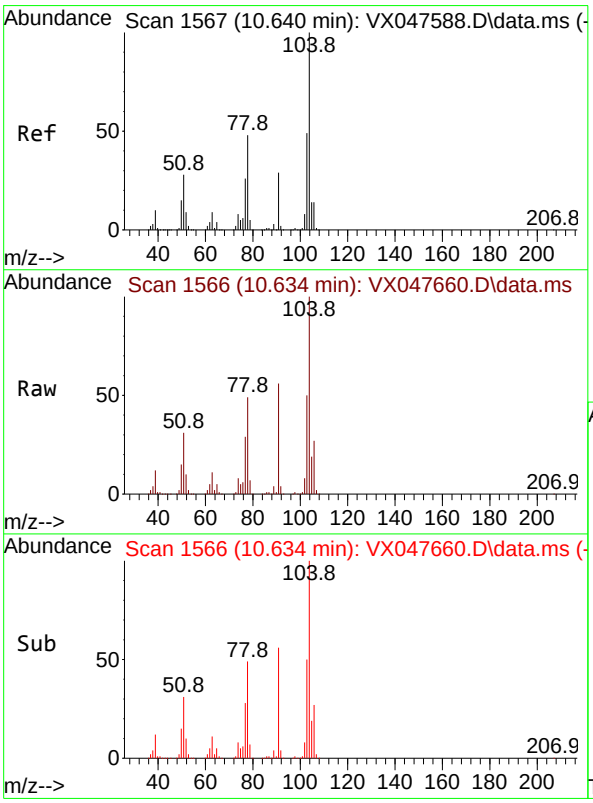
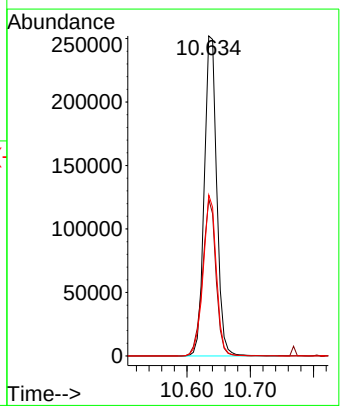
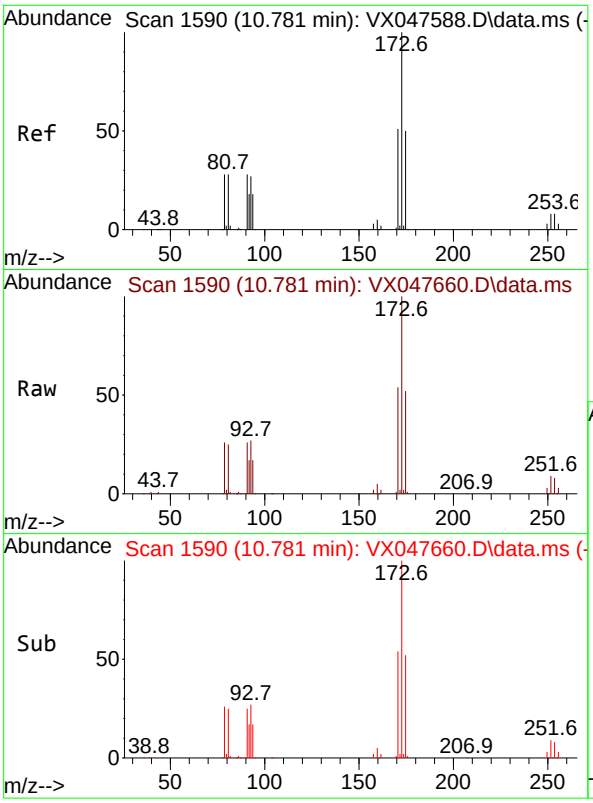


#70
Styrene
Concen: 51.440 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:104 Resp: 346312

Ion	Ratio	Lower	Upper
104	100		
78	52.4	43.1	64.7
103	53.1	43.1	64.7

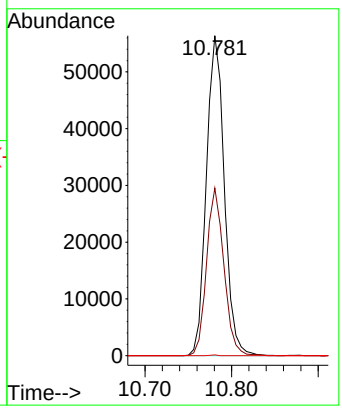




#71
Bromoform
Concen: 50.872 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:173 Resp: 8107

Ion	Ratio	Lower	Upper
173	100		
175	50.6	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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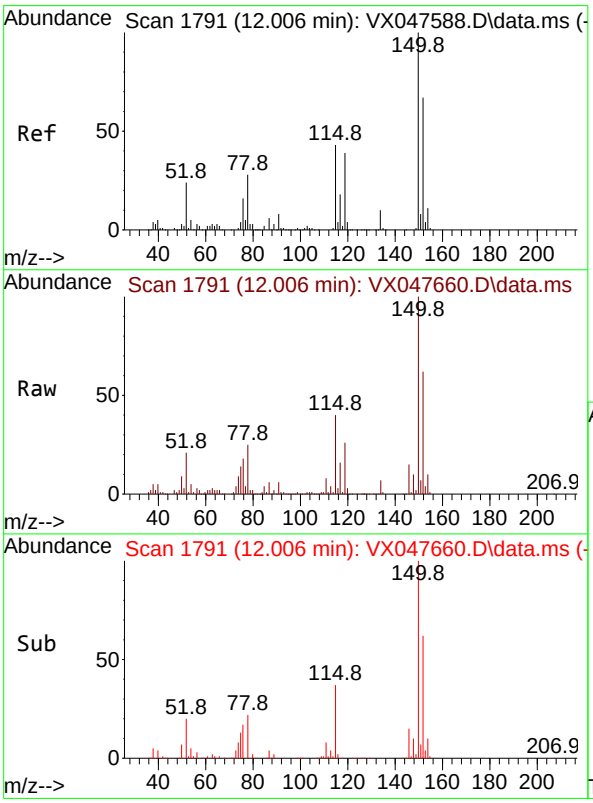
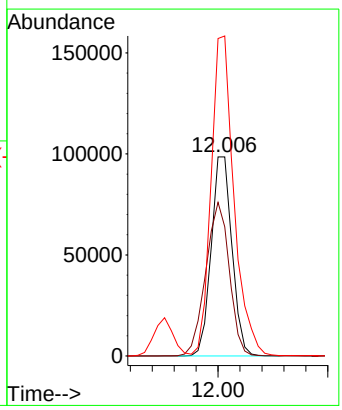
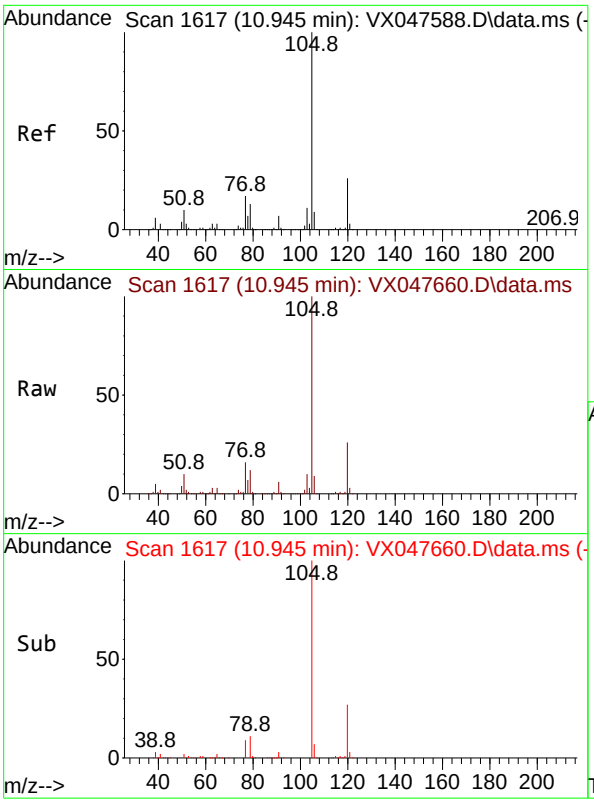


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:152 Resp: 129778

Ion	Ratio	Lower	Upper
152	100		
115	87.7	44.9	134.5
150	176.7	0.0	352.0

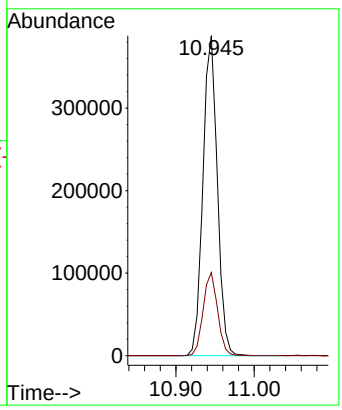




#73
Isopropylbenzene
Concen: 50.005 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:105 Resp: 49337

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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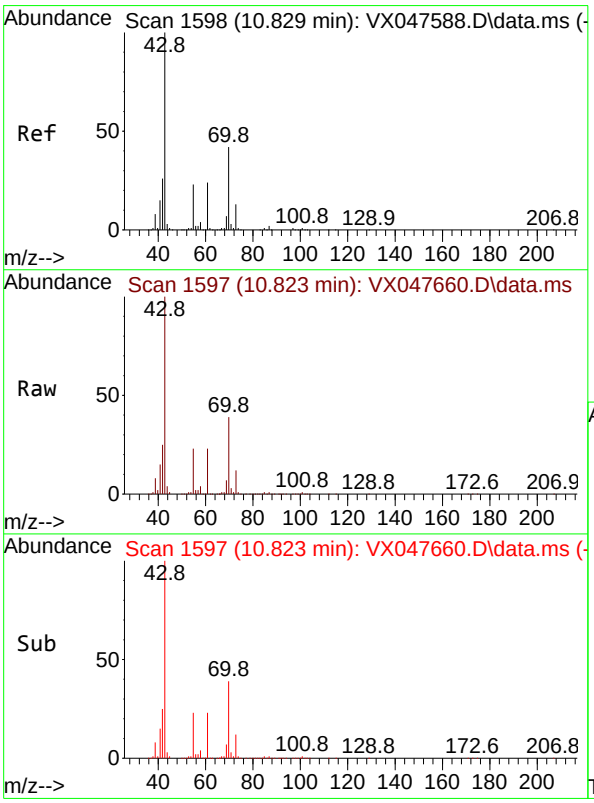
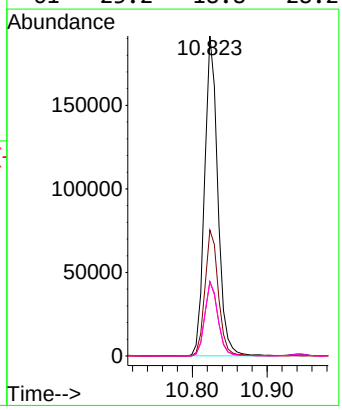
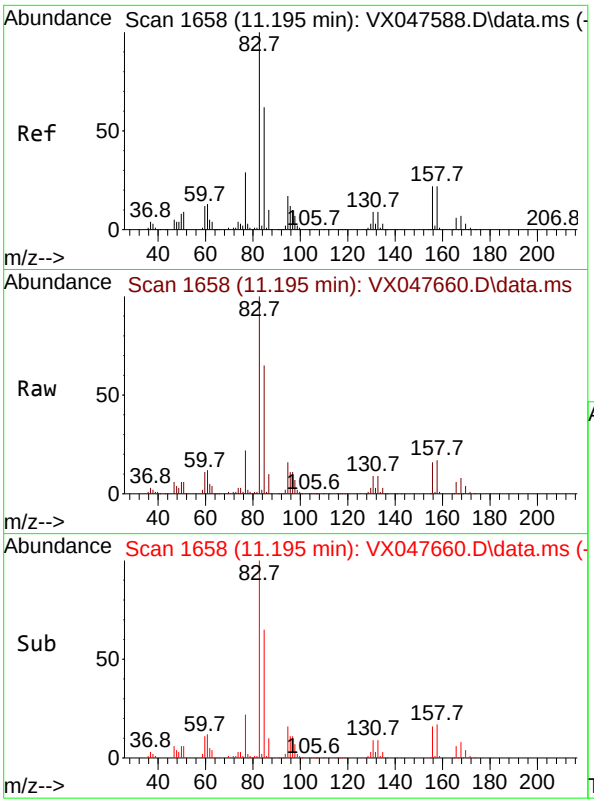


#74
N-amyl acetate
Concen: 52.208 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 234901

Ion	Ratio	Lower	Upper
43	100		
70	40.1	32.0	48.0
55	23.3	18.9	28.3
61	23.2	18.8	28.2

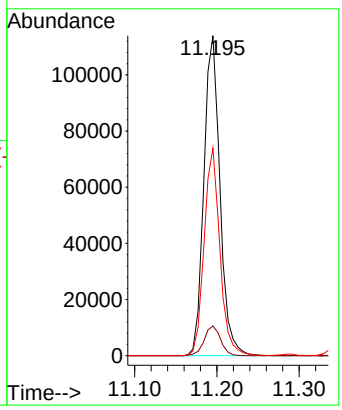




#75
1,1,2,2-Tetrachloroethane
Concen: 51.895 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 83 Resp: 15491

Ion	Ratio	Lower	Upper
83	100		
131	9.4	5.0	14.9
85	63.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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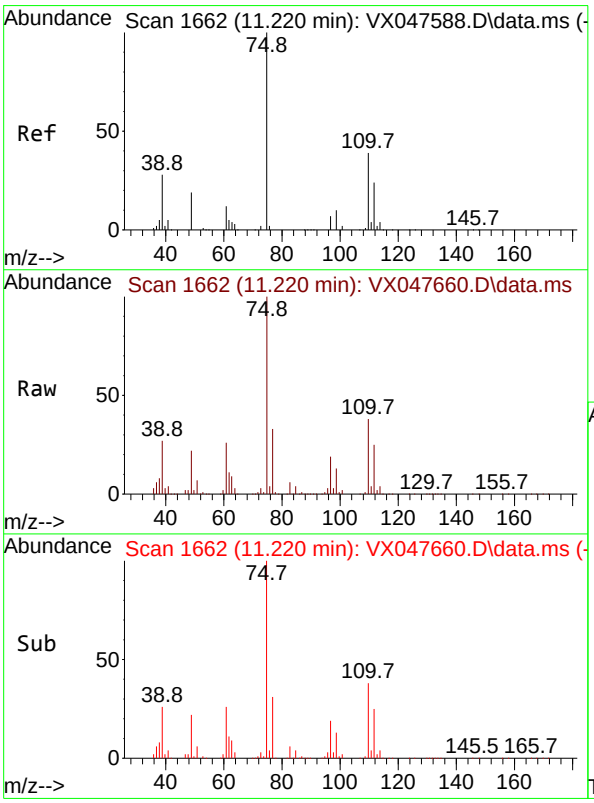
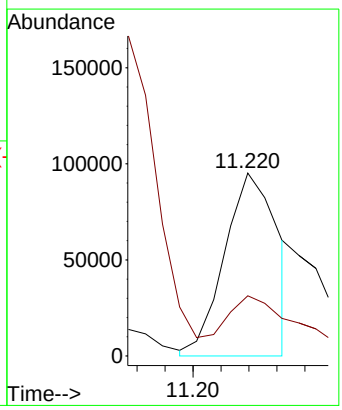
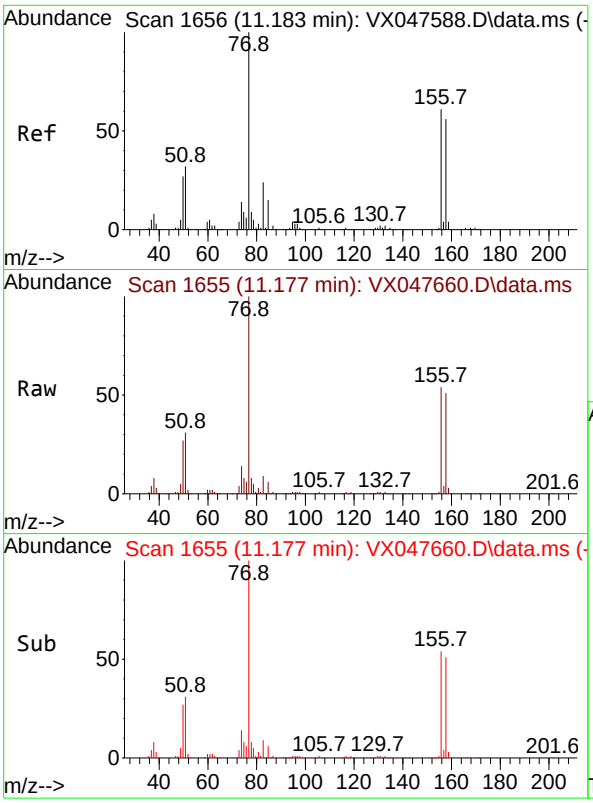


#76
1,2,3-Trichloropropane
Concen: 47.682 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 125290

Ion	Ratio	Lower	Upper
75	100		
77	45.2	18.8	56.4

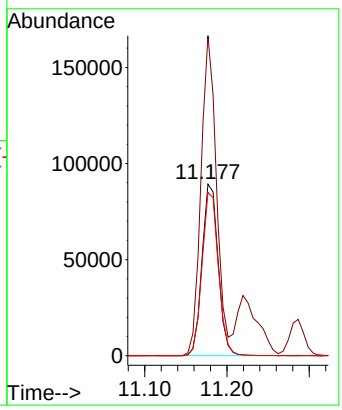




#77
Bromobenzene
Concen: 50.172 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:156 Resp: 12192

Ion	Ratio	Lower	Upper
156	100		
77	177.6	89.7	269.1
158	96.4	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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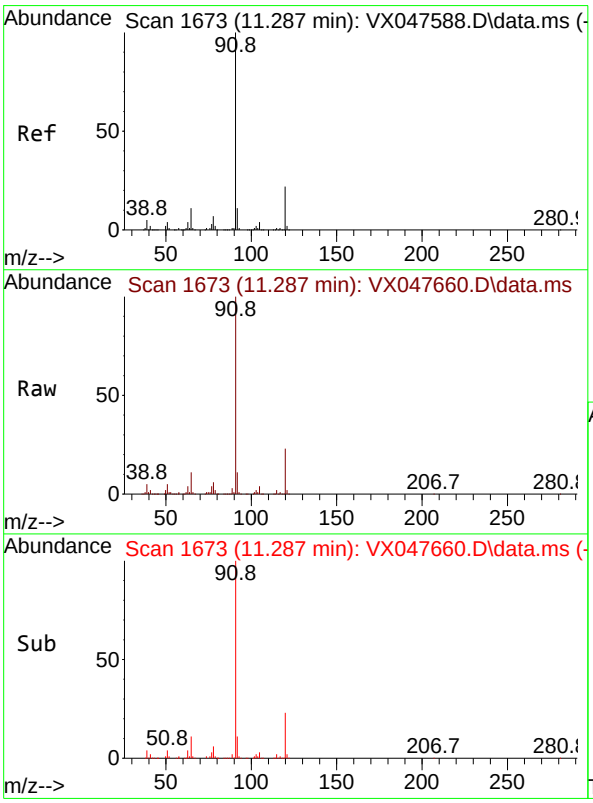
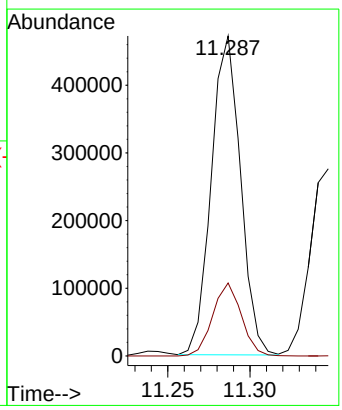
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

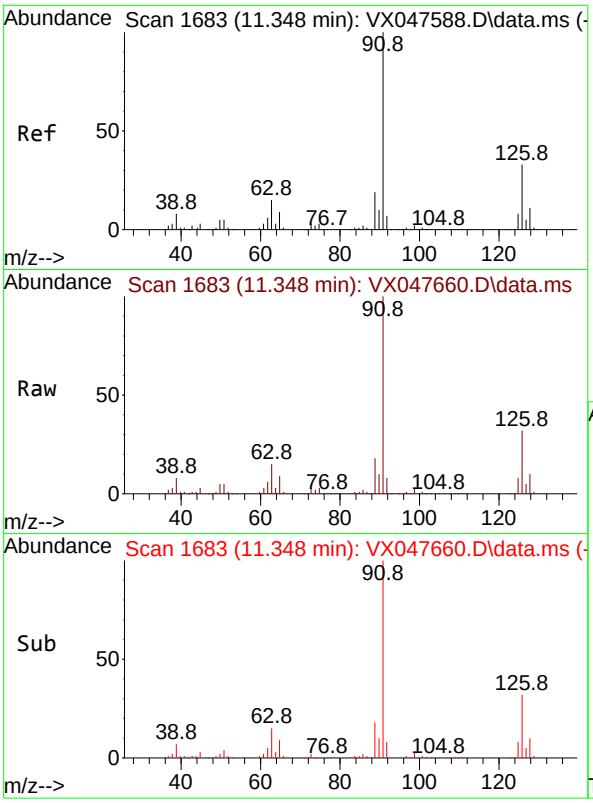


#78
n-propylbenzene
Concen: 50.018 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 91 Resp: 583388

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1





#79
2-Chlorotoluene
Concen: 49.875 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 91 Resp: 35628

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
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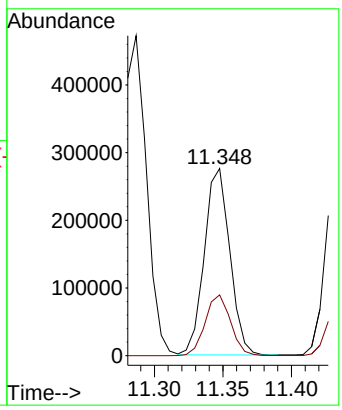
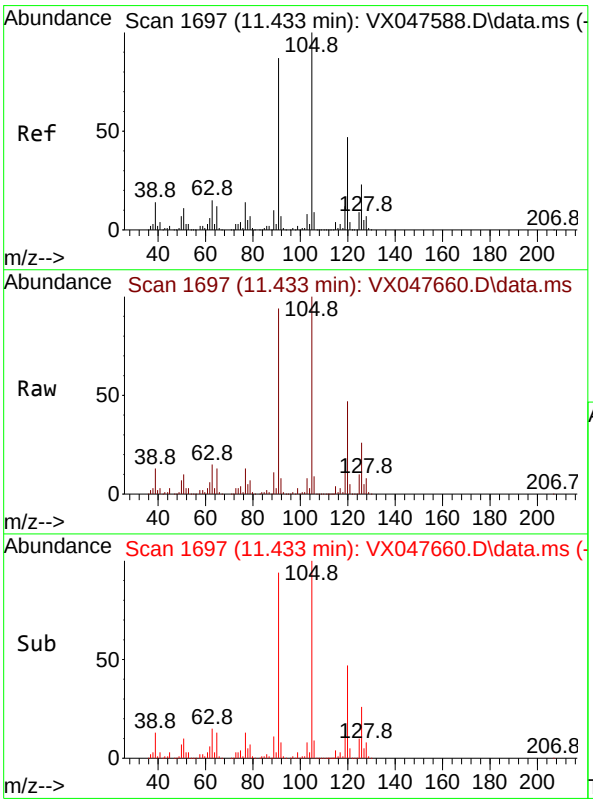
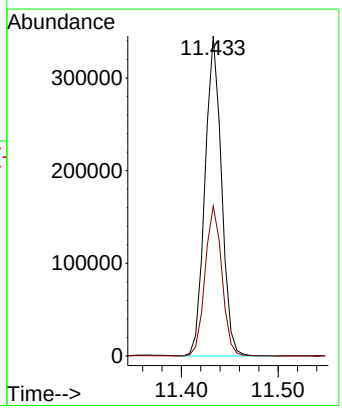


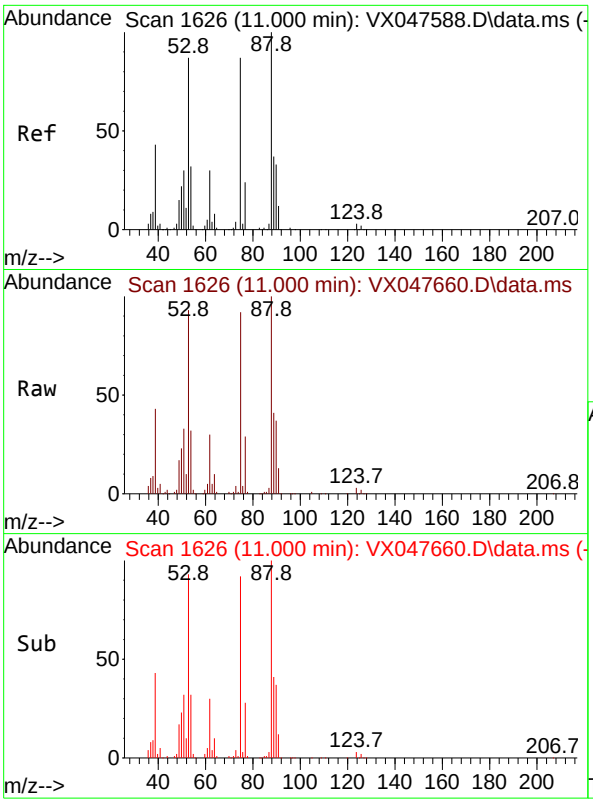


#80
1,3,5-Trimethylbenzene
Concen: 50.523 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:105 Resp: 409554

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.6	70.8

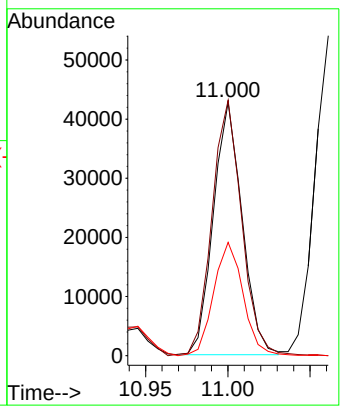




#81
trans-1,4-Dichloro-2-butene
Concen: 50.440 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 5197

Ion	Ratio	Lower	Upper
75	100		
53	104.6	83.4	125.2
89	46.1	36.3	54.5



Instrument :
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ClientSampleId :
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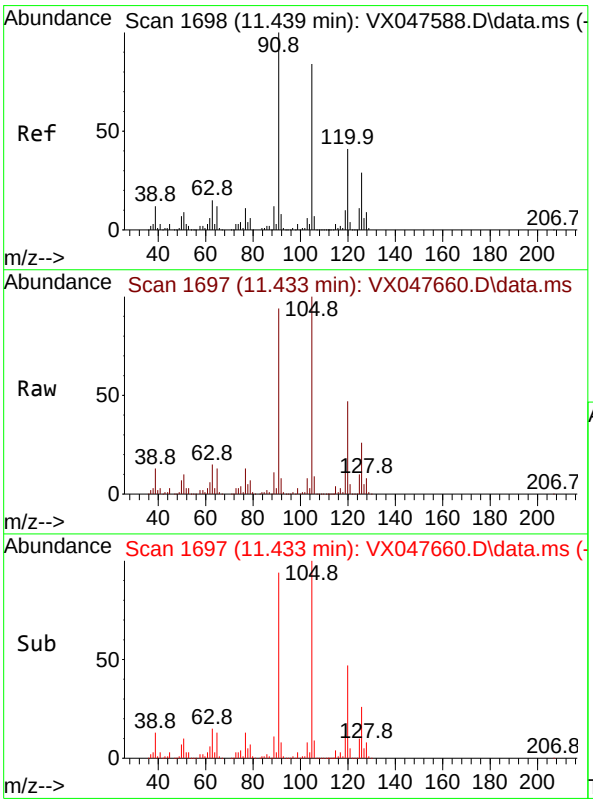
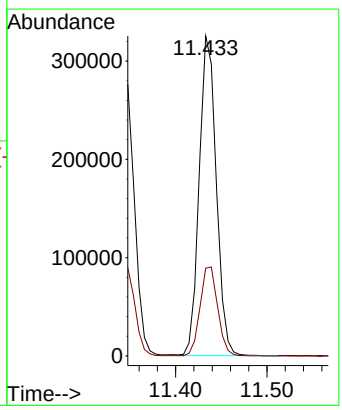
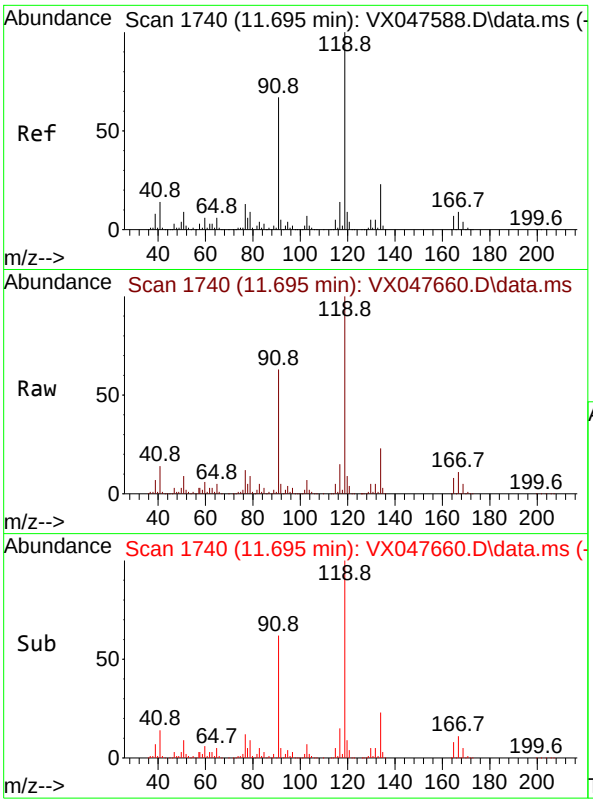


#82
4-Chlorotoluene
Concen: 49.932 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 91 Resp: 421274

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6





#83
tert-Butylbenzene
Concen: 48.196 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:119 Resp: 39993

Ion	Ratio	Lower	Upper
119	100		
91	59.6	29.6	88.8
134	22.8	11.0	33.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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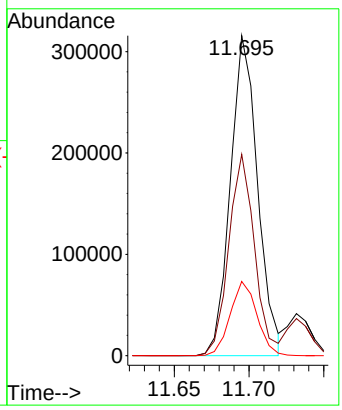
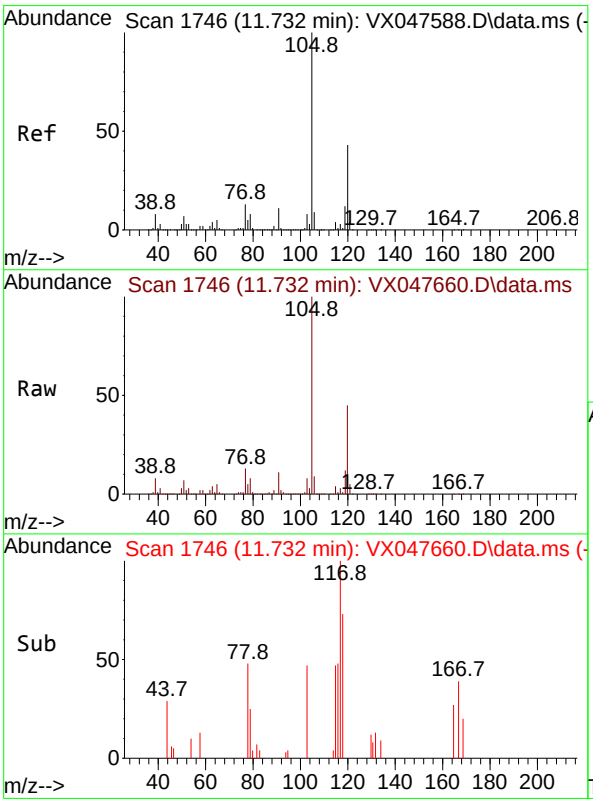
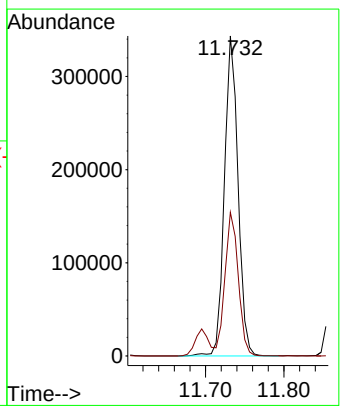


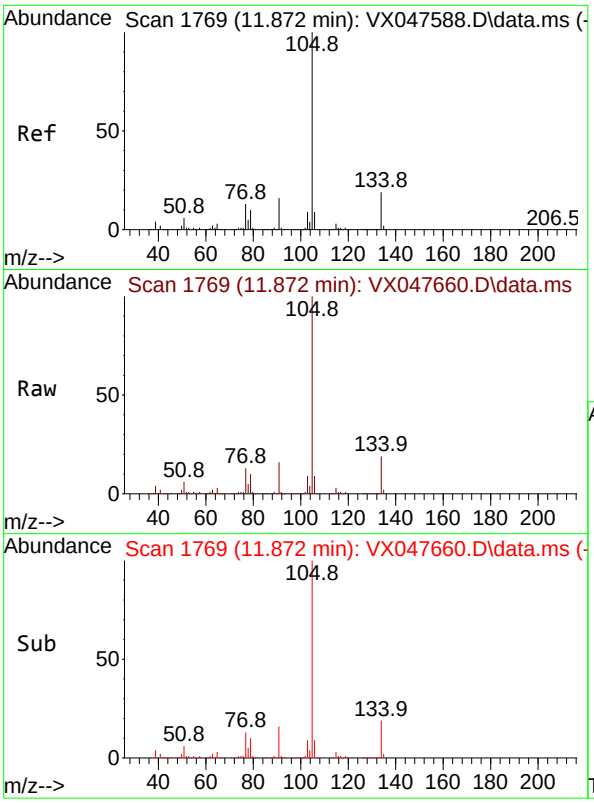


#84
1,2,4-Trimethylbenzene
Concen: 50.508 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:105 Resp: 415095

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1

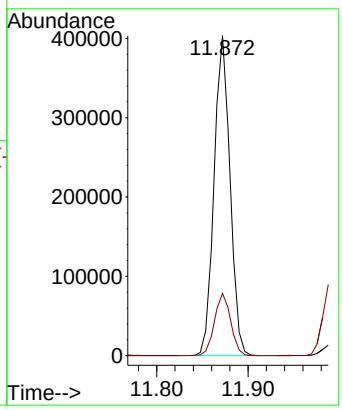




#85
sec-Butylbenzene
Concen: 49.622 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:105 Resp: 48910

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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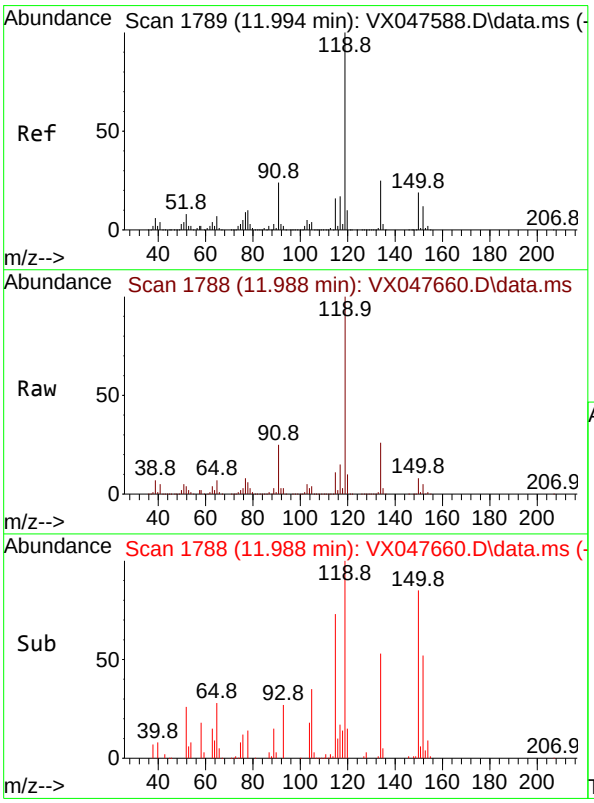
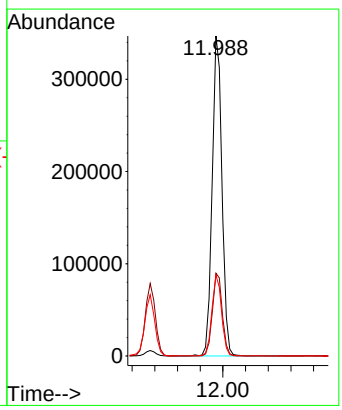
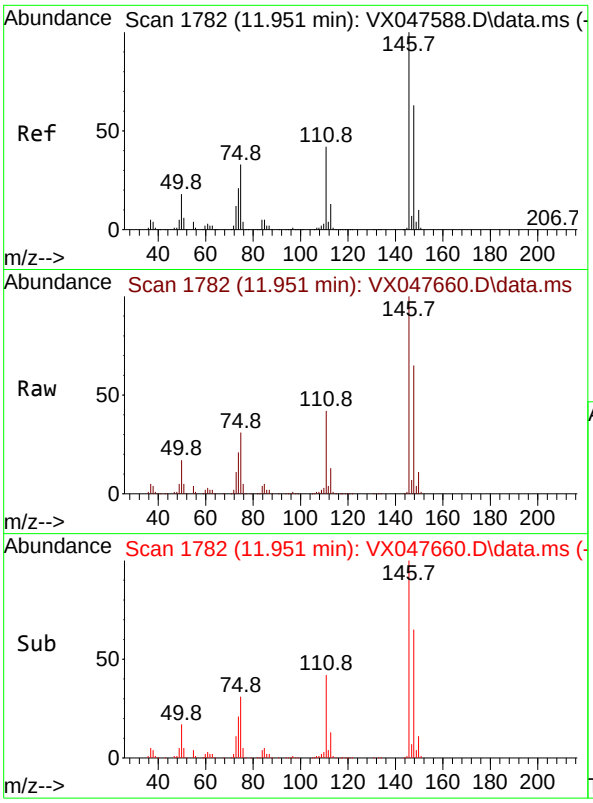


#86
p-Isopropyltoluene
Concen: 49.757 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:119 Resp: 415198

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	25.0	12.6	37.6

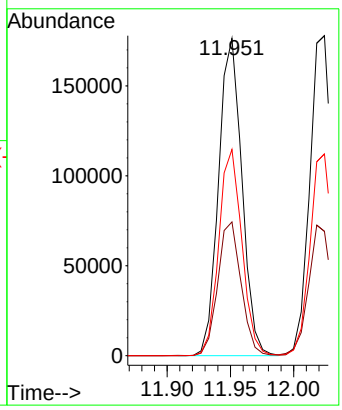




#87
1,3-Dichlorobenzene
Concen: 50.139 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:146 Resp: 22630

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	64.3	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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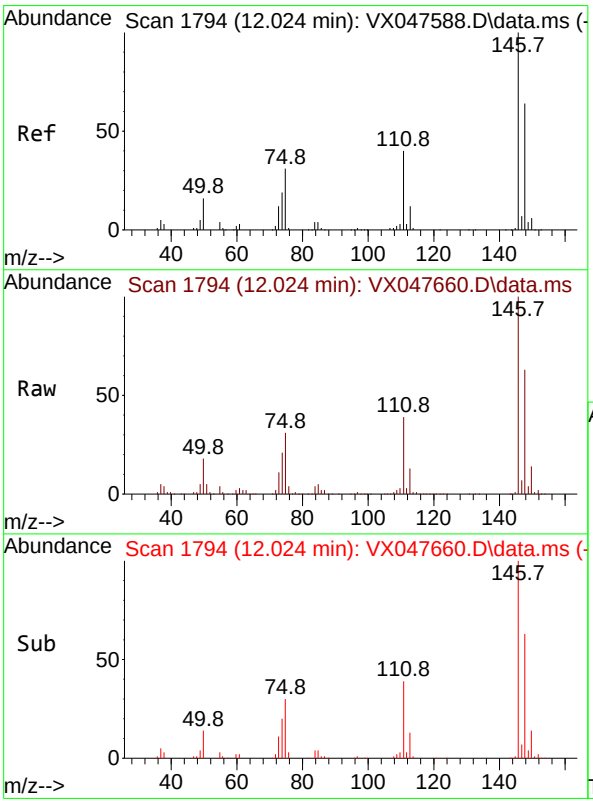
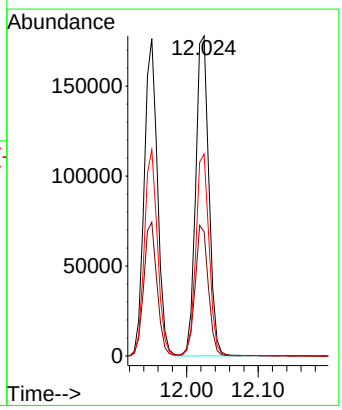
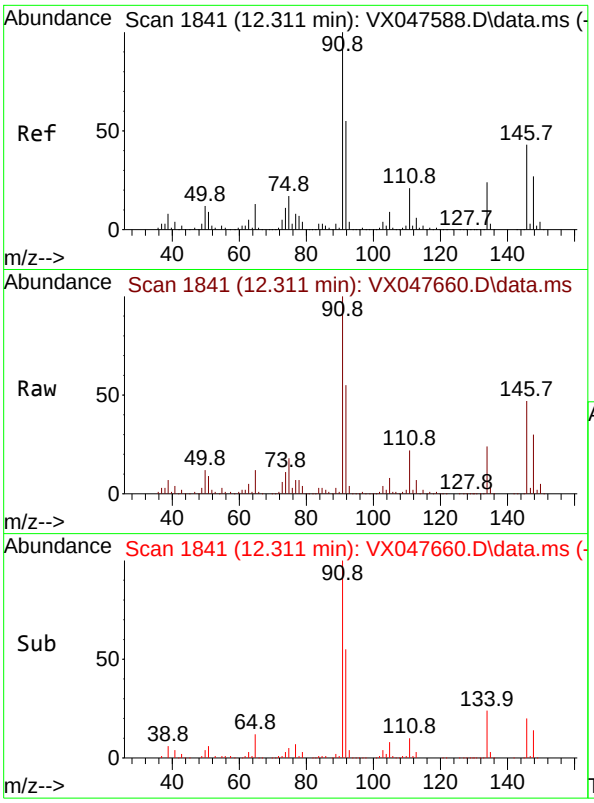


#88
1,4-Dichlorobenzene
Concen: 49.138 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:146 Resp: 227633

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.8	62.4
148	63.1	31.7	95.1

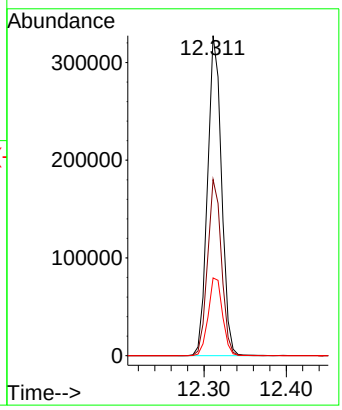




#89
n-Butylbenzene
Concen: 50.022 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 91 Resp: 38623

Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.6	82.7
134	24.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
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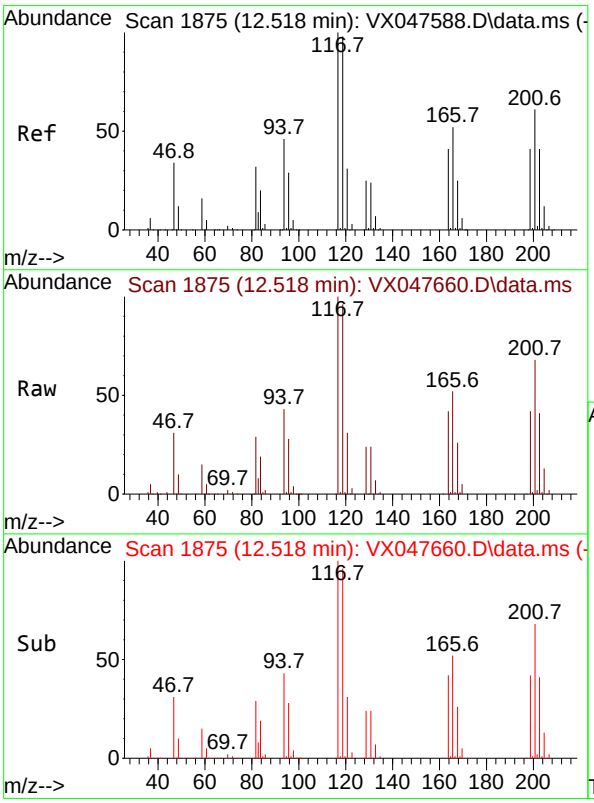
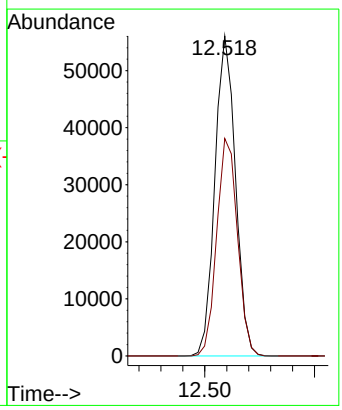
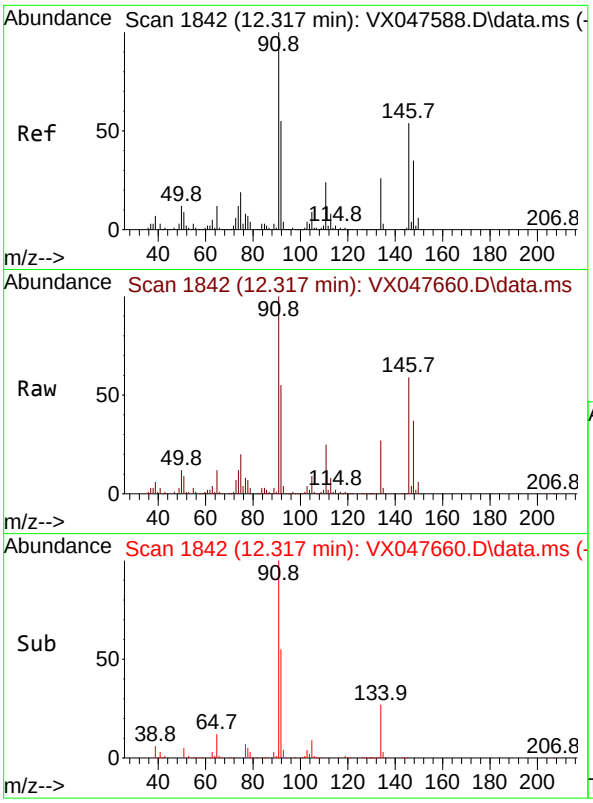


#90
Hexachloroethane
Concen: 49.913 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:117 Resp: 73125

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5

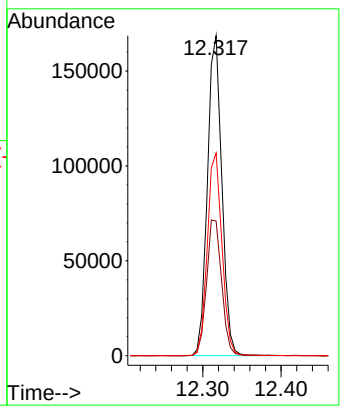




#91
1,2-Dichlorobenzene
Concen: 50.084 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:146 Resp: 21536

Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.2	66.6
148	64.2	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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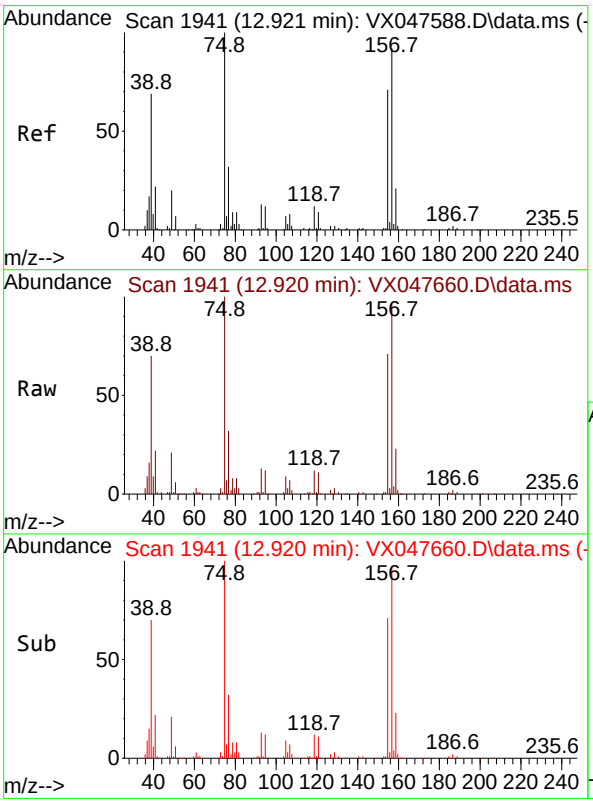
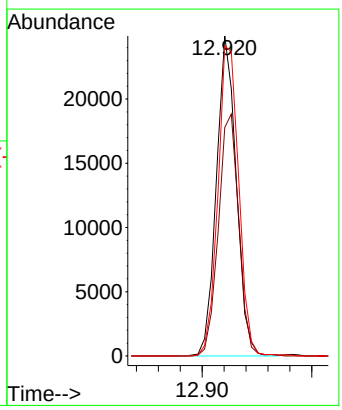
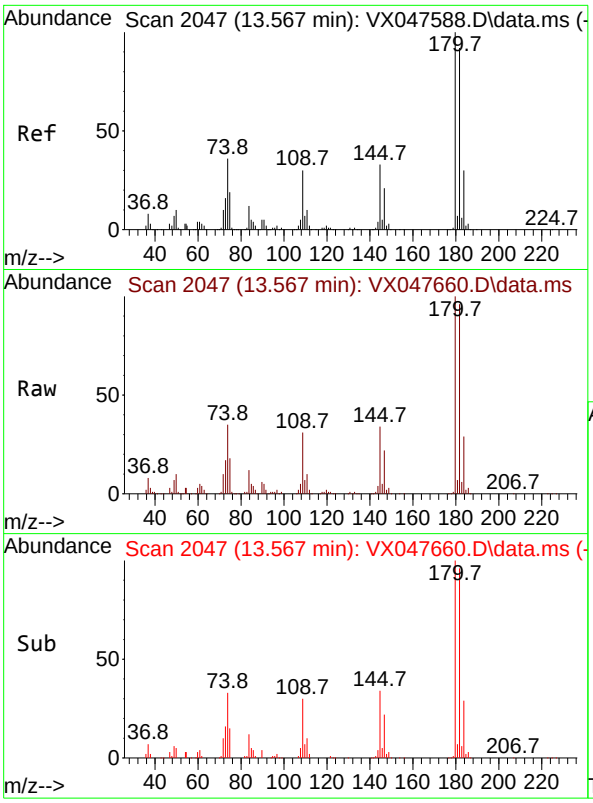


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.864 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 31345

Ion	Ratio	Lower	Upper
75	100		
155	77.8	37.7	113.1
157	101.7	49.8	149.4

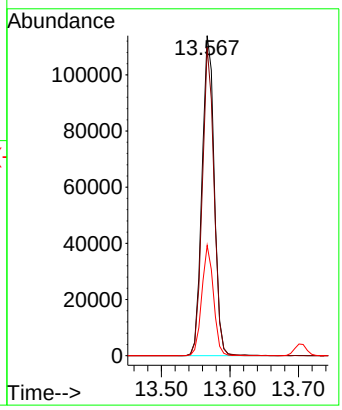




#93
1,2,4-Trichlorobenzene
Concen: 50.643 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:180 Resp: 14153

Ion	Ratio	Lower	Upper
180	100		
182	92.9	46.6	139.8
145	32.9	16.4	49.1



Instrument :
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ClientSampleId :
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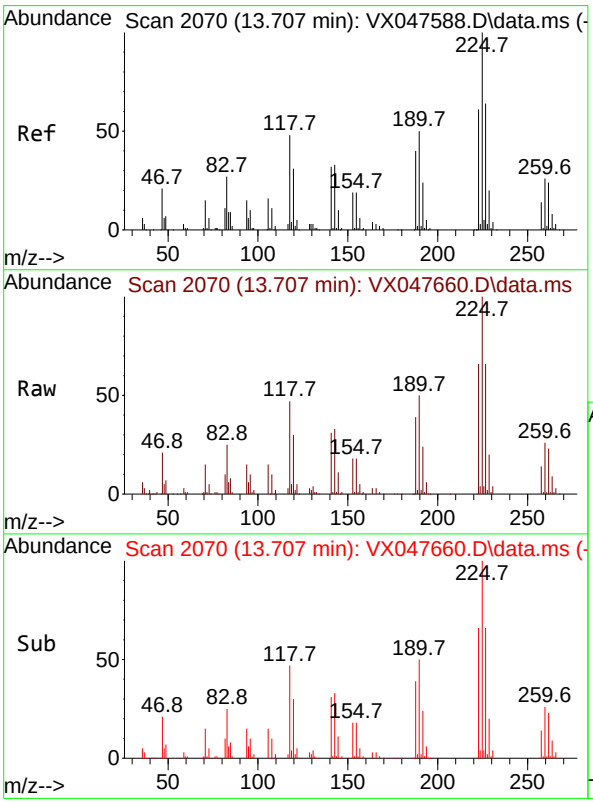
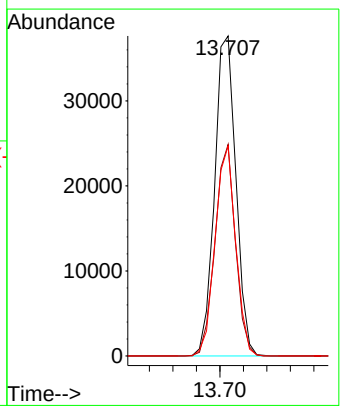
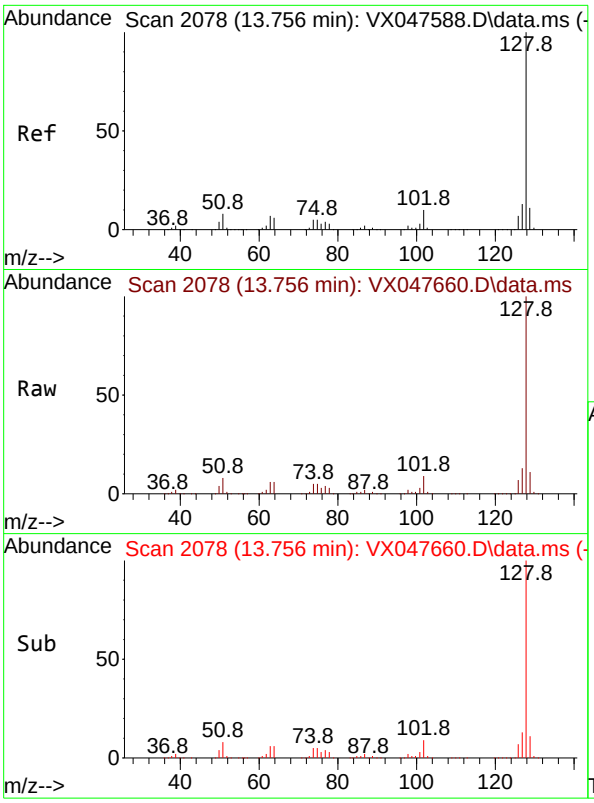


#94
Hexachlorobutadiene
Concen: 49.957 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:225 Resp: 47423

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.7	95.1
227	63.3	32.0	96.0

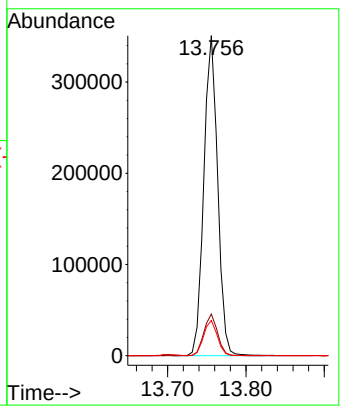




#95
Naphthalene
Concen: 50.373 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:128 Resp: 42867

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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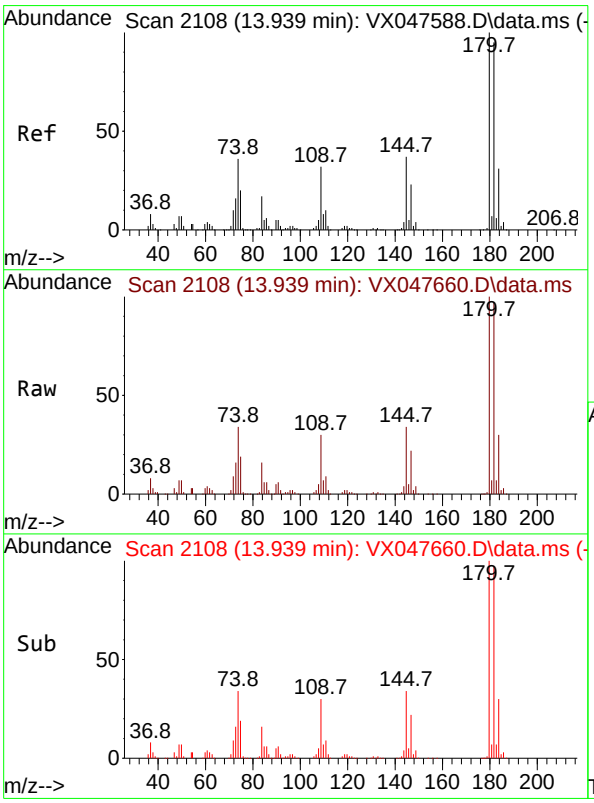
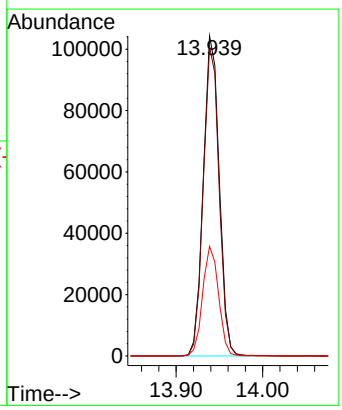
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.304 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:180 Resp: 133374

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.6	142.8
145	34.3	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	97	-0.01
2	T	Dichlorodifluoromethane	0.518	0.650	-25.5#	126	0.00
3	P	Chloromethane	0.680	0.796	-17.1	117	0.00
4	C	Vinyl Chloride	0.666	0.765	-14.9#	112	0.00
5	T	Bromomethane	0.422	0.509	-20.6	116	0.00
6	T	Chloroethane	0.445	0.487	-9.4	107	0.00
7	T	Trichlorofluoromethane	0.989	1.055	-6.7	103	0.00
8	T	Diethyl Ether	0.405	0.431	-6.4	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.606	-4.8	101	0.00
10	T	Methyl Iodide	0.902	0.957	-6.1	102	0.00
11	T	Tert butyl alcohol	0.089	0.091	-2.2	99	0.00
12	CM	1,1-Dichloroethene	0.594	0.636	-7.1#	102	0.00
13	T	Acrolein	0.082	0.091	-11.0	108	0.00
14	T	Allyl chloride	1.226	1.277	-4.2	102	0.00
15	T	Acrylonitrile	0.328	0.368	-12.2	103	0.00
16	T	Acetone	0.346	0.370	-6.9	113	0.00
17	T	Carbon Disulfide	1.626	1.859	-14.3	115	0.00
18	T	Methyl Acetate	0.770	0.823	-6.9	91	0.00
19	T	Methyl tert-butyl Ether	2.169	2.275	-4.9	98	0.00
20	T	Methylene Chloride	0.732	0.763	-4.2	102	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.690	-7.8	103	0.00
22	T	Diisopropyl ether	2.376	2.524	-6.2	99	-0.01
23	T	Vinyl Acetate	1.901	2.110	-11.0	103	0.00
24	P	1,1-Dichloroethane	1.263	1.331	-5.4	100	0.00
25	T	2-Butanone	0.432	0.467	-8.1	103	0.00
26	T	2,2-Dichloropropane	1.050	1.086	-3.4	99	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.828	-5.7	99	0.00
28	T	Bromochloromethane	0.551	0.612	-11.1	103	-0.01
29	T	Tetrahydrofuran	0.260	0.286	-10.0	101	0.00
30	C	Chloroform	1.276	1.333	-4.5#	98	0.00
31	T	Cyclohexane	1.052	1.072	-1.9	101	0.00
32	T	1,1,1-Trichloroethane	1.082	1.113	-2.9	96	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.779	2.1	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.335	0.329	1.8	99	0.00
36	T	1,1-Dichloropropene	0.490	0.485	1.0	99	-0.01
37	T	Ethyl Acetate	0.525	0.547	-4.2	103	-0.01
38	T	Carbon Tetrachloride	0.532	0.515	3.2	95	-0.01
39	T	Methylcyclohexane	0.556	0.565	-1.6	100	0.00
40	TM	Benzene	1.488	1.532	-3.0	100	0.00
41	T	Methacrylonitrile	0.271	0.293	-8.1	102	0.00
42	TM	1,2-Dichloroethane	0.566	0.567	-0.2	97	0.00
43	T	Isopropyl Acetate	0.860	0.880	-2.3	98	0.00
44	TM	Trichloroethene	0.360	0.371	-3.1	100	0.00
45	C	1,2-Dichloropropane	0.381	0.386	-1.3#	97	0.00
46	T	Dibromomethane	0.277	0.285	-2.9	99	0.00
47	T	Bromodichloromethane	0.572	0.580	-1.4	95	0.00
48	T	Methyl methacrylate	0.429	0.442	-3.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.005	-25.0	114	0.00
50	S	Toluene-d8	1.160	1.122	3.3	98	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.504	-5.7	98	0.00
52	CM	Toluene	0.917	0.930	-1.4#	99	0.00
53	T	t-1,3-Dichloropropene	0.584	0.600	-2.7	97	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.646	-3.5	99	0.00
55	T	1,1,2-Trichloroethane	0.354	0.359	-1.4	98	0.00
56	T	Ethyl methacrylate	0.555	0.590	-6.3	98	0.00
57	T	1,3-Dichloropropane	0.607	0.632	-4.1	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.278	-22.5	102	0.00
59	T	2-Hexanone	0.343	0.360	-5.0	100	0.00
60	T	Dibromochloromethane	0.407	0.423	-3.9	97	0.00
61	T	1,2-Dibromoethane	0.360	0.383	-6.4	101	0.00
62	S	4-Bromofluorobenzene	0.440	0.425	3.4	99	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.326	0.319	2.1	99	0.00
65	PM	Chlorobenzene	1.136	1.134	0.2	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.393	-0.3	96	0.00
67	C	Ethyl Benzene	1.960	1.969	-0.5#	97	0.00
68	T	m/p-Xylenes	0.729	0.735	-0.8	97	0.00
69	T	o-Xylene	0.706	0.714	-1.1	96	0.00
70	T	Styrene	1.236	1.272	-2.9	99	0.00
71	P	Bromoform	0.293	0.298	-1.7	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	3.801	3.802	-0.0	95	0.00
74	T	N-amyl acetate	1.733	1.810	-4.4	99	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.194	-3.8	99	0.00
76	T	1,2,3-Trichloropropane	1.012	0.965	4.6	87	0.00
77	T	Bromobenzene	0.936	0.939	-0.3	97	0.00
78	T	n-propylbenzene	4.494	4.495	-0.0	95	0.00
79	T	2-Chlorotoluene	2.752	2.745	0.3	96	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.156	-1.1	96	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.400	-0.8	98	0.00
82	T	4-Chlorotoluene	3.251	3.246	0.2	96	0.00
83	T	tert-Butylbenzene	3.197	3.082	3.6	93	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.199	-1.0	97	0.00
85	T	sec-Butylbenzene	3.797	3.769	0.7	95	0.00
86	T	p-Isopropyltoluene	3.215	3.199	0.5	95	0.00
87	T	1,3-Dichlorobenzene	1.739	1.744	-0.3	98	0.00
88	T	1,4-Dichlorobenzene	1.785	1.754	1.7	97	0.00
89	T	n-Butylbenzene	2.975	2.976	-0.0	96	0.00
90	T	Hexachloroethane	0.564	0.563	0.2	96	0.00
91	T	1,2-Dichlorobenzene	1.657	1.660	-0.2	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.242	-3.9	97	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.091	-1.3	96	0.00
94	T	Hexachlorobutadiene	0.366	0.365	0.3	97	0.00
95	T	Naphthalene	3.279	3.303	-0.7	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.028	-2.6	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
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Quant Time: Sep 20 00:25:05 2025
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	97	-0.01
2	T	Dichlorodifluoromethane	50.000	62.726	-25.5#	126	0.00
3	P	Chloromethane	50.000	58.454	-16.9	117	0.00
4	C	Vinyl Chloride	50.000	57.401	-14.8#	112	0.00
5	T	Bromomethane	50.000	60.207	-20.4	116	0.00
6	T	Chloroethane	50.000	54.697	-9.4	107	0.00
7	T	Trichlorofluoromethane	50.000	53.331	-6.7	103	0.00
8	T	Diethyl Ether	50.000	53.247	-6.5	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.368	-4.7	101	0.00
10	T	Methyl Iodide	50.000	53.061	-6.1	102	0.00
11	T	Tert butyl alcohol	250.000	256.398	-2.6	99	0.00
12	CM	1,1-Dichloroethene	50.000	53.511	-7.0#	102	0.00
13	T	Acrolein	250.000	277.267	-10.9	108	0.00
14	T	Allyl chloride	50.000	52.096	-4.2	102	0.00
15	T	Acrylonitrile	250.000	280.351	-12.1	103	0.00
16	T	Acetone	250.000	267.632	-7.1	113	0.00
17	T	Carbon Disulfide	50.000	57.144	-14.3	115	0.00
18	T	Methyl Acetate	50.000	53.421	-6.8	91	0.00
19	T	Methyl tert-butyl Ether	50.000	52.463	-4.9	98	0.00
20	T	Methylene Chloride	50.000	52.090	-4.2	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	53.949	-7.9	103	0.00
22	T	Diisopropyl ether	50.000	53.122	-6.2	99	-0.01
23	T	Vinyl Acetate	250.000	277.456	-11.0	103	0.00
24	P	1,1-Dichloroethane	50.000	52.689	-5.4	100	0.00
25	T	2-Butanone	250.000	270.370	-8.1	103	0.00
26	T	2,2-Dichloropropane	50.000	51.709	-3.4	99	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.862	-5.7	99	0.00
28	T	Bromochloromethane	50.000	55.493	-11.0	103	-0.01
29	T	Tetrahydrofuran	250.000	275.412	-10.2	101	0.00
30	C	Chloroform	50.000	52.250	-4.5#	98	0.00
31	T	Cyclohexane	50.000	50.989	-2.0	101	0.00
32	T	1,1,1-Trichloroethane	50.000	51.405	-2.8	96	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.921	2.2	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	48.985	2.0	99	0.00
36	T	1,1-Dichloropropene	50.000	49.472	1.1	99	-0.01
37	T	Ethyl Acetate	50.000	52.177	-4.4	103	-0.01
38	T	Carbon Tetrachloride	50.000	48.399	3.2	95	-0.01
39	T	Methylcyclohexane	50.000	50.798	-1.6	100	0.00
40	TM	Benzene	50.000	51.478	-3.0	100	0.00
41	T	Methacrylonitrile	50.000	54.019	-8.0	102	0.00
42	TM	1,2-Dichloroethane	50.000	50.041	-0.1	97	0.00
43	T	Isopropyl Acetate	50.000	51.124	-2.2	98	0.00
44	TM	Trichloroethene	50.000	51.491	-3.0	100	0.00
45	C	1,2-Dichloropropane	50.000	50.706	-1.4#	97	0.00
46	T	Dibromomethane	50.000	51.314	-2.6	99	0.00
47	T	Bromodichloromethane	50.000	50.681	-1.4	95	0.00
48	T	Methyl methacrylate	50.000	51.542	-3.1	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1265.071	-26.5#	114	0.00
50	S	Toluene-d8	50.000	48.346	3.3	98	0.00
51	T	4-Methyl-2-Pentanone	250.000	263.992	-5.6	98	0.00
52	CM	Toluene	50.000	50.732	-1.5#	99	0.00
53	T	t-1,3-Dichloropropene	50.000	51.420	-2.8	97	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.767	-3.5	99	0.00
55	T	1,1,2-Trichloroethane	50.000	50.755	-1.5	98	0.00
56	T	Ethyl methacrylate	50.000	53.155	-6.3	98	0.00
57	T	1,3-Dichloropropane	50.000	52.043	-4.1	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	261.332	-4.5	102	0.00
59	T	2-Hexanone	250.000	262.497	-5.0	100	0.00
60	T	Dibromochloromethane	50.000	51.934	-3.9	97	0.00
61	T	1,2-Dibromoethane	50.000	53.110	-6.2	101	0.00
62	S	4-Bromofluorobenzene	50.000	48.202	3.6	99	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	48.951	2.1	99	0.00
65	PM	Chlorobenzene	50.000	49.899	0.2	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.145	-0.3	96	0.00
67	C	Ethyl Benzene	50.000	50.244	-0.5#	97	0.00
68	T	m/p-Xylenes	100.000	100.725	-0.7	97	0.00
69	T	o-Xylene	50.000	50.618	-1.2	96	0.00
70	T	Styrene	50.000	51.440	-2.9	99	0.00
71	P	Bromoform	50.000	50.872	-1.7	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	50.005	-0.0	95	0.00
74	T	N-amyl acetate	50.000	52.208	-4.4	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.895	-3.8	99	0.00
76	T	1,2,3-Trichloropropane	50.000	47.682	4.6	87	0.00
77	T	Bromobenzene	50.000	50.172	-0.3	97	0.00
78	T	n-propylbenzene	50.000	50.018	-0.0	95	0.00
79	T	2-Chlorotoluene	50.000	49.875	0.3	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.523	-1.0	96	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.440	-0.9	98	0.00
82	T	4-Chlorotoluene	50.000	49.932	0.1	96	0.00
83	T	tert-Butylbenzene	50.000	48.196	3.6	93	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.508	-1.0	97	0.00
85	T	sec-Butylbenzene	50.000	49.622	0.8	95	0.00
86	T	p-Isopropyltoluene	50.000	49.757	0.5	95	0.00
87	T	1,3-Dichlorobenzene	50.000	50.139	-0.3	98	0.00
88	T	1,4-Dichlorobenzene	50.000	49.138	1.7	97	0.00
89	T	n-Butylbenzene	50.000	50.022	-0.0	96	0.00
90	T	Hexachloroethane	50.000	49.913	0.2	96	0.00
91	T	1,2-Dichlorobenzene	50.000	50.084	-0.2	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.864	-3.7	97	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.643	-1.3	96	0.00
94	T	Hexachlorobutadiene	50.000	49.957	0.1	97	0.00
95	T	Naphthalene	50.000	50.373	-0.7	95	0.00

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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
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Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.304	-2.6	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: AECO15

Lab Code: ACE | SDG No.: Q3097

Instrument ID: MSVOA_X | Calibration Date/Time: 09/19/2025 19:03

Lab File ID: VX047687.D | Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.658		27.03	50
Chloromethane	0.680	0.802	0.1	17.94	50
Vinyl Chloride	0.666	0.795		19.37	50
Bromomethane	0.422	0.503		19.19	50
Chloroethane	0.445	0.502		12.81	50
Trichlorofluoromethane	0.989	1.094		10.62	50
1,1,2-Trichlorotrifluoroethane	0.578	0.646		11.77	50
1,1-Dichloroethene	0.594	0.654		10.1	50
Acetone	0.346	0.275		-20.52	50
Carbon Disulfide	1.626	1.876		15.38	50
Methyl tert-butyl Ether	2.169	2.274		4.84	50
Methyl Acetate	0.770	0.823		6.88	50
Methylene Chloride	0.732	0.795		8.61	50
trans-1,2-Dichloroethene	0.640	0.708		10.63	50
1,1-Dichloroethane	1.263	1.378	0.1	9.1	50
Cyclohexane	1.052	1.123		6.75	50
2-Butanone	0.432	0.427		-1.16	50
Carbon Tetrachloride	0.532	0.541		1.69	50
cis-1,2-Dichloroethene	0.783	0.841		7.41	50
Bromochloromethane	0.551	0.592		7.44	50
Chloroform	1.276	1.389		8.86	50
1,1,1-Trichloroethane	1.082	1.158		7.02	50
Methylcyclohexane	0.556	0.582		4.68	50
Benzene	1.488	1.601		7.59	50
1,2-Dichloroethane	0.566	0.588		3.89	50
Trichloroethene	0.360	0.404		12.22	50
1,2-Dichloropropane	0.381	0.410		7.61	50
Bromodichloromethane	0.572	0.610		6.64	50
4-Methyl-2-Pentanone	0.477	0.505		5.87	50
Toluene	0.917	0.979		6.76	50
t-1,3-Dichloropropene	0.584	0.602		3.08	50
cis-1,3-Dichloropropene	0.624	0.647		3.69	50
1,1,2-Trichloroethane	0.354	0.377		6.5	50
2-Hexanone	0.343	0.346		0.88	50
Dibromochloromethane	0.407	0.436		7.13	50
1,2-Dibromoethane	0.360	0.396		10	50
Tetrachloroethene	0.326	0.340		4.29	50
Chlorobenzene	1.136	1.199	0.3	5.55	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: AECO15

Lab Code: ACE SDG No.: Q3097

Instrument ID: MSVOA_X Calibration Date/Time: 09/19/2025 19:03

Lab File ID: VX047687.D Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	2.077		5.97	50
m/p-Xylenes	0.729	0.766		5.07	50
o-Xylene	0.706	0.753		6.66	50
Styrene	1.236	1.317		6.55	50
Bromoform	0.293	0.304	0.1	3.75	50
Isopropylbenzene	3.801	3.941		3.68	50
1,1,2,2-Tetrachloroethane	1.150	1.206	0.3	4.87	50
1,3-Dichlorobenzene	1.739	1.790		2.93	50
1,4-Dichlorobenzene	1.785	1.808		1.29	50
1,2-Dichlorobenzene	1.657	1.710		3.2	50
1,2-Dibromo-3-Chloropropane	0.233	0.223		-4.29	50
1,2,4-Trichlorobenzene	1.077	1.094		1.58	50
1,2,3-Trichlorobenzene	1.002	0.985		-1.7	50
1,2-Dichloroethane-d4	0.796	0.848		6.53	50
Dibromofluoromethane	0.335	0.360		7.46	50
Toluene-d8	1.160	1.237		6.64	50
4-Bromofluorobenzene	0.440	0.465		5.68	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	154405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	278359	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	248998	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	120684	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	130953	53.282	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.560%			
35) Dibromofluoromethane	5.373	113	100288	53.721	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.440%			
50) Toluene-d8	8.635	98	344346	53.308	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.620%			
62) 4-Bromofluorobenzene	11.061	95	129494	52.822	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	101670	63.588	ug/l	98
3) Chloromethane	1.300	50	123827	58.927	ug/l	99
4) Vinyl Chloride	1.380	62	122810	59.703	ug/l	97
5) Bromomethane	1.617	94	77609	59.499	ug/l	100
6) Chloroethane	1.697	64	77528	56.391	ug/l	97
7) Trichlorofluoromethane	1.898	101	168856	55.285	ug/l	99
8) Diethyl Ether	2.136	74	68004	54.429	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.337	101	99678	55.814	ug/l	97
10) Methyl Iodide	2.459	142	146871	52.731	ug/l	100
11) Tert butyl alcohol	2.940	59	58211	212.661	ug/l	100
12) 1,1-Dichloroethene	2.325	96	100925	55.015	ug/l	95
13) Acrolein	2.239	56	68460	271.404	ug/l	98
14) Allyl chloride	2.666	41	195491	51.642	ug/l	98
15) Acrylonitrile	3.056	53	276208	272.421	ug/l	100
16) Acetone	2.373	43	211924	198.313	ug/l	96
17) Carbon Disulfide	2.520	76	289670	57.679	ug/l	100
18) Methyl Acetate	2.697	43	127073	53.432	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	351150	52.436	ug/l	99
20) Methylene Chloride	2.788	84	122715	54.250	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	109388	55.385	ug/l	97
22) Diisopropyl ether	3.751	45	400135	54.541	ug/l #	83
23) Vinyl Acetate	3.715	43	1611770	274.498	ug/l	100
24) 1,1-Dichloroethane	3.605	63	212751	54.560	ug/l	99
25) 2-Butanone	4.538	43	329510	247.197	ug/l	99
26) 2,2-Dichloropropane	4.471	77	145629	44.928	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	129834	53.677	ug/l	98
28) Bromochloromethane	4.885	49	91361	53.668	ug/l	99
29) Tetrahydrofuran	4.989	42	208846	260.441	ug/l	100
30) Chloroform	5.080	83	214531	54.443	ug/l	96
31) Cyclohexane	5.464	56	173386	53.387	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	178728	53.474	ug/l	100
36) 1,1-Dichloropropene	5.684	75	140108	51.362	ug/l	99
37) Ethyl Acetate	4.696	43	147497	50.499	ug/l	100
38) Carbon Tetrachloride	5.666	117	150656	50.831	ug/l	95
39) Methylcyclohexane	7.366	83	162143	52.363	ug/l	99
40) Benzene	6.025	78	445760	53.802	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	79917	53.000	ug/l		99
42) 1,2-Dichloroethane	6.074	62	163773	51.951	ug/l		98
43) Isopropyl Acetate	6.324	43	246265	51.410	ug/l		99
44) Trichloroethene	7.117	130	112580	56.204	ug/l		93
45) 1,2-Dichloropropane	7.415	63	114044	53.755	ug/l		99
46) Dibromomethane	7.568	93	81845	53.014	ug/l		97
47) Bromodichloromethane	7.805	83	169676	53.260	ug/l		97
48) Methyl methacrylate	7.677	41	124085	52.004	ug/l		98
49) 1,4-Dioxane	7.647	88	26594	1102.850	ug/l		97
51) 4-Methyl-2-Pentanone	8.555	43	702538	264.517	ug/l		99
52) Toluene	8.702	92	272421	53.368	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	167442	51.527	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	179970	51.815	ug/l		99
55) 1,1,2-Trichloroethane	9.134	97	104952	53.322	ug/l		99
56) Ethyl methacrylate	9.104	69	165642	53.586	ug/l		98
57) 1,3-Dichloropropane	9.293	76	183018	54.129	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	384468	259.650	ug/l		100
59) 2-Hexanone	9.415	43	481662	252.510	ug/l		99
60) Dibromochloromethane	9.506	129	121253	53.465	ug/l		99
61) 1,2-Dibromoethane	9.592	107	110255	54.996	ug/l		99
64) Tetrachloroethene	9.262	164	84740	52.205	ug/l		95
65) Chlorobenzene	10.061	112	298639	52.793	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.146	131	101896	52.201	ug/l		97
67) Ethyl Benzene	10.177	91	517118	52.982	ug/l		99
68) m/p-Xylenes	10.287	106	381354	104.973	ug/l		99
69) o-Xylene	10.628	106	187399	53.332	ug/l		99
70) Styrene	10.640	104	327913	53.259	ug/l		99
71) Bromoform	10.780	173	75620	51.882	ug/l	#	98
73) Isopropylbenzene	10.945	105	475596	51.835	ug/l		100
74) N-amyl acetate	10.829	43	216669	51.785	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	145518	52.421	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	130064m	53.229	ug/l		
77) Bromobenzene	11.183	156	117390	51.947	ug/l		99
78) n-propylbenzene	11.286	91	565595	52.147	ug/l		100
79) 2-Chlorotoluene	11.347	91	341195	51.361	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	388702	51.564	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	43877	45.792	ug/l		97
82) 4-Chlorotoluene	11.439	91	401172	51.132	ug/l		98
83) tert-Butylbenzene	11.695	119	391982	50.797	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	397498	52.011	ug/l		100
85) sec-Butylbenzene	11.872	105	467967	51.055	ug/l		100
86) p-Isopropyltoluene	11.988	119	392640	50.599	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	215979	51.456	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	218234	50.659	ug/l		100
89) n-Butylbenzene	12.311	91	365418	50.892	ug/l		98
90) Hexachloroethane	12.518	117	68460	50.250	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	206378	51.610	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	26906	47.873	ug/l		95
93) 1,2,4-Trichlorobenzene	13.567	180	132061	50.815	ug/l		99
94) Hexachlorobutadiene	13.707	225	40751	46.163	ug/l		98
95) Naphthalene	13.756	128	395649	49.995	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	118876	49.173	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
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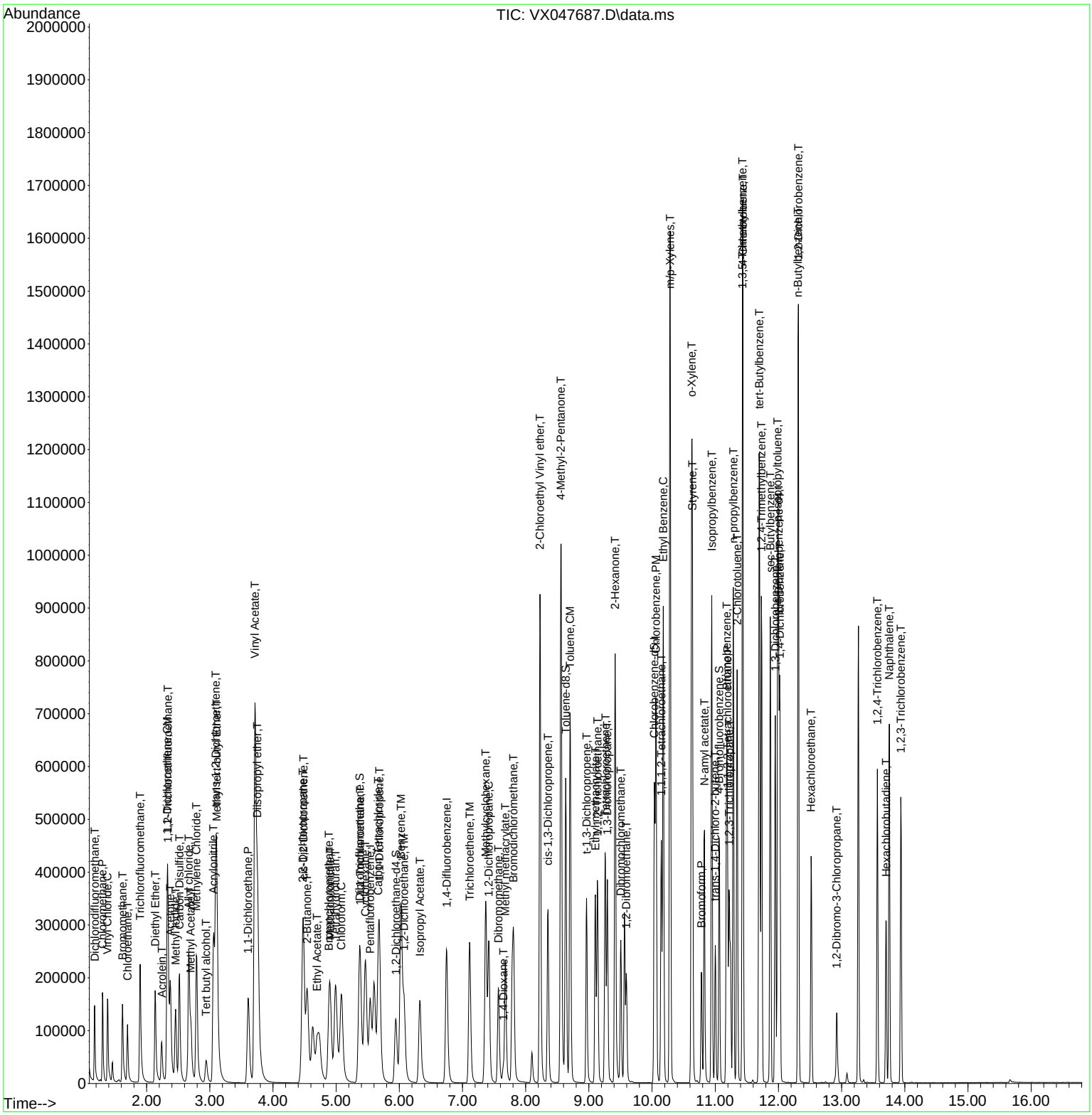
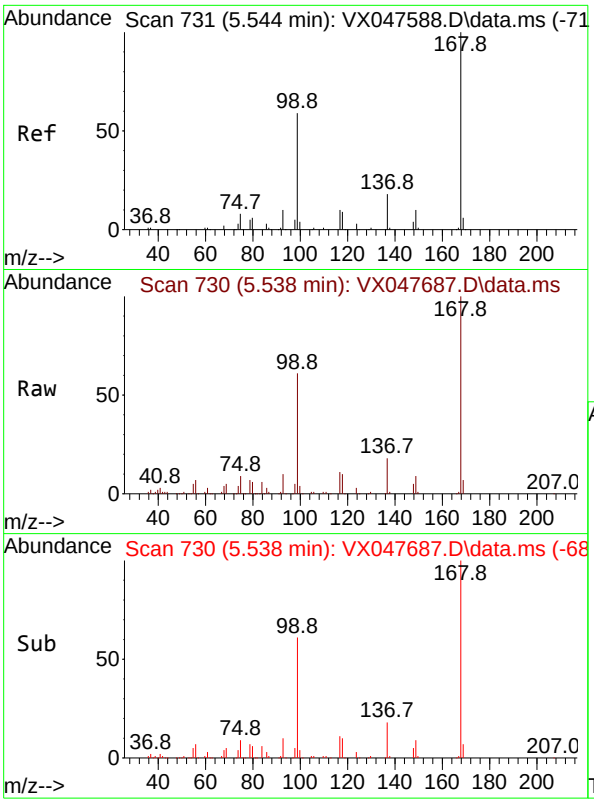
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

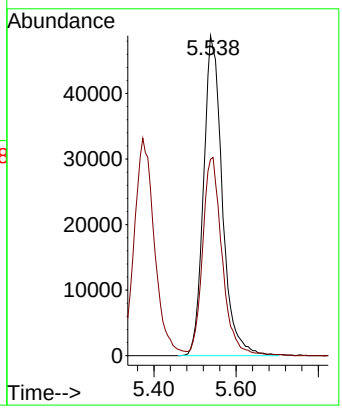




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:168 Resp: 15440

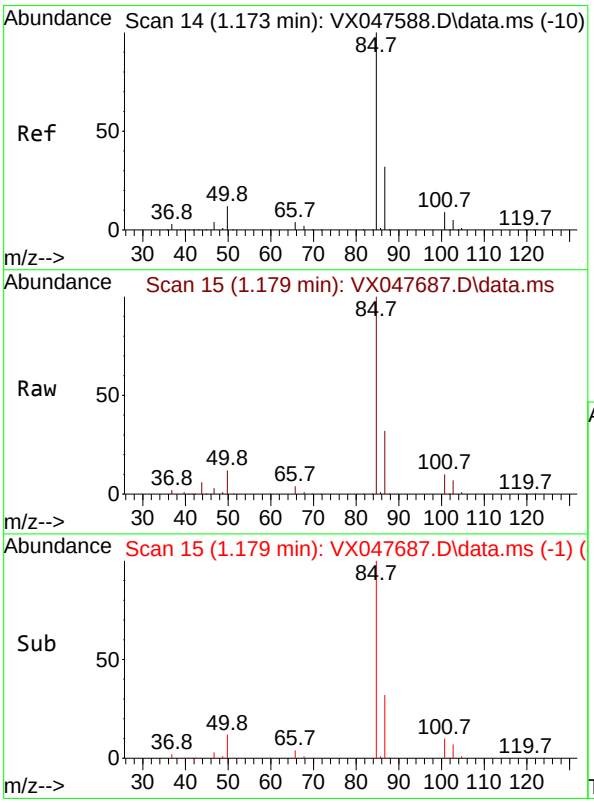
Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

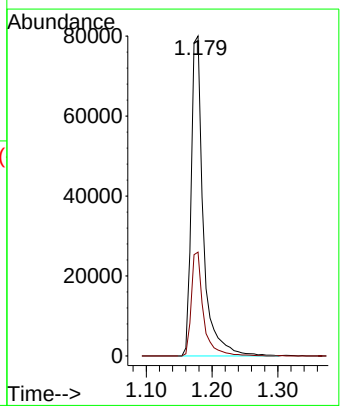
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

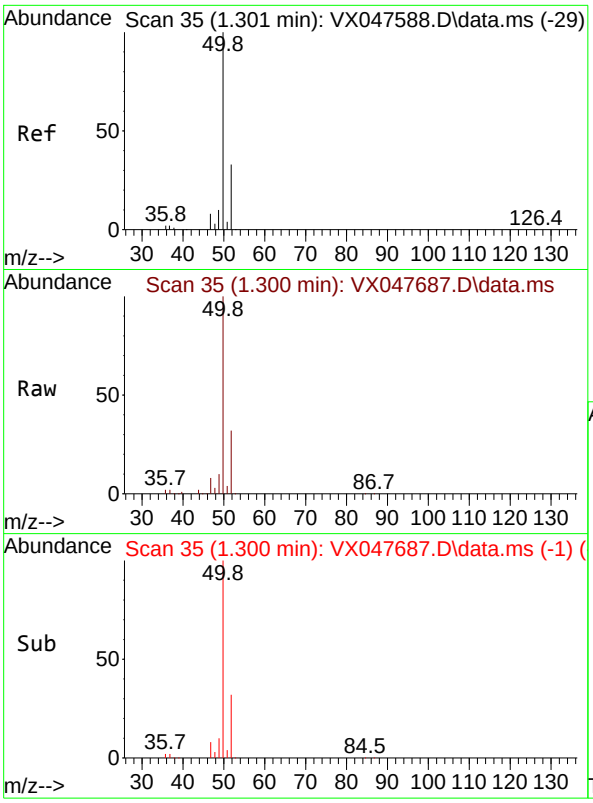


#2
Dichlorodifluoromethane
Concen: 63.588 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 85 Resp: 101670

Ion	Ratio	Lower	Upper
85	100		
87	32.5	15.8	47.3

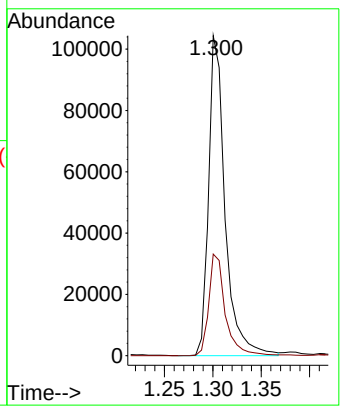




#3
Chloromethane
Concen: 58.927 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 50 Resp: 12382

Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
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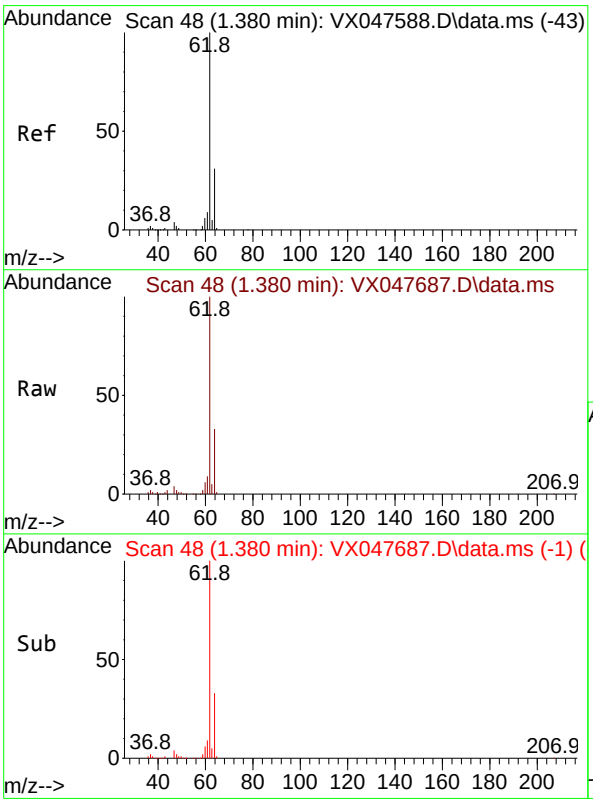
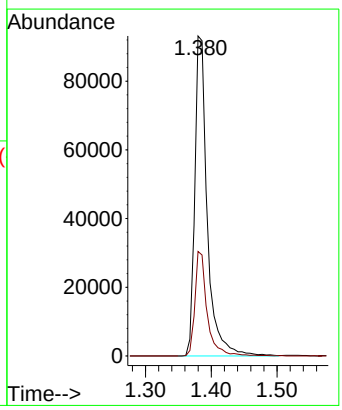
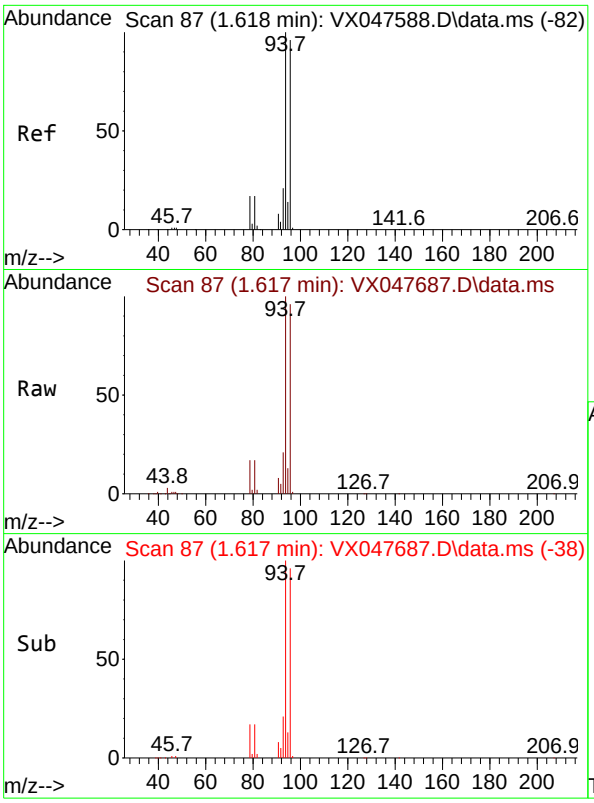


#4
Vinyl Chloride
Concen: 59.703 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 62 Resp: 122810

Ion	Ratio	Lower	Upper
62	100		
64	32.7	24.9	37.3

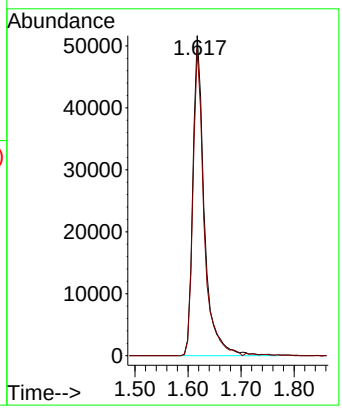




#5
Bromomethane
Concen: 59.499 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 94 Resp: 7760

Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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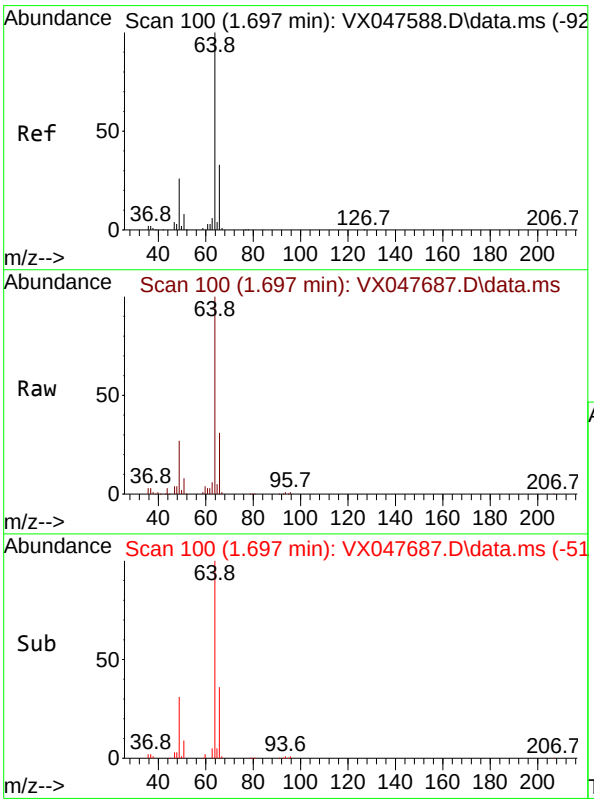
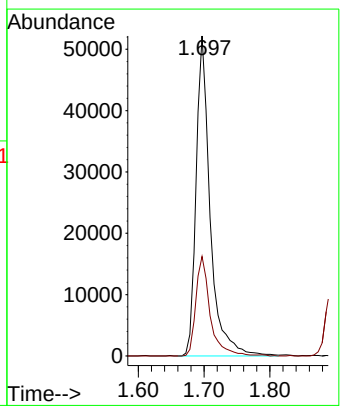
Supervised By :Mahesh Dadoda 09/22/2025

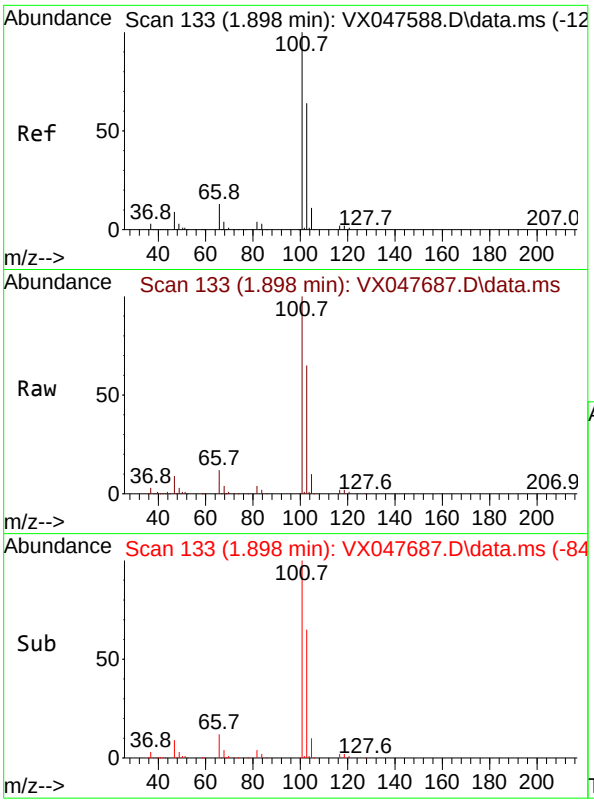


#6
Chloroethane
Concen: 56.391 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 64 Resp: 77528

Ion	Ratio	Lower	Upper
64	100		
66	31.1	26.1	39.1





#7
Trichlorofluoromethane
Concen: 55.285 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:101 Resp: 16885

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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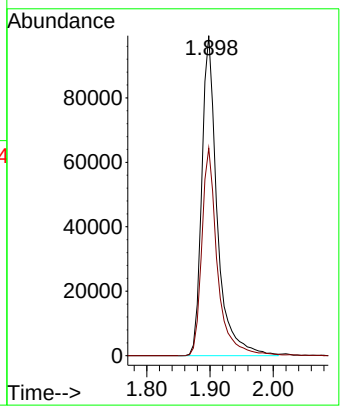
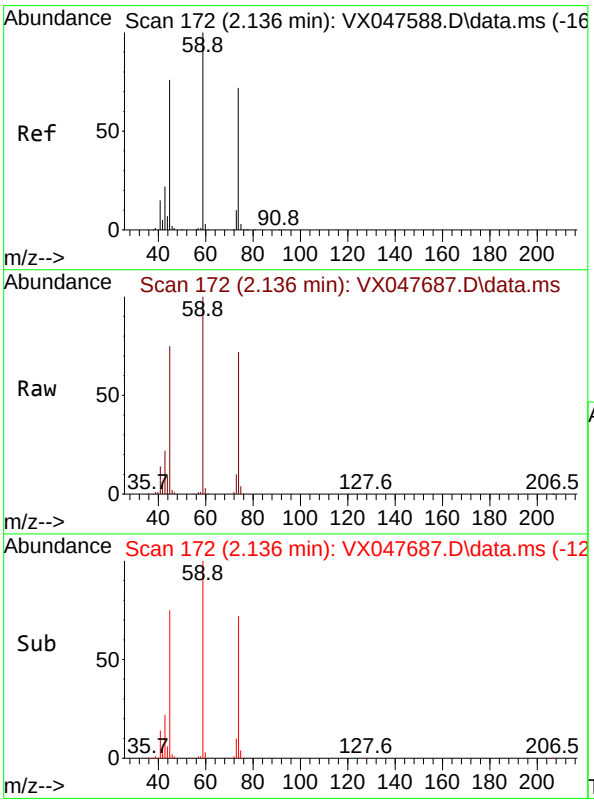
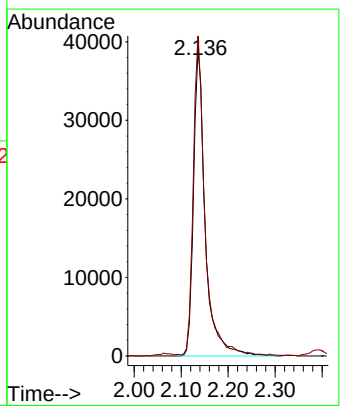


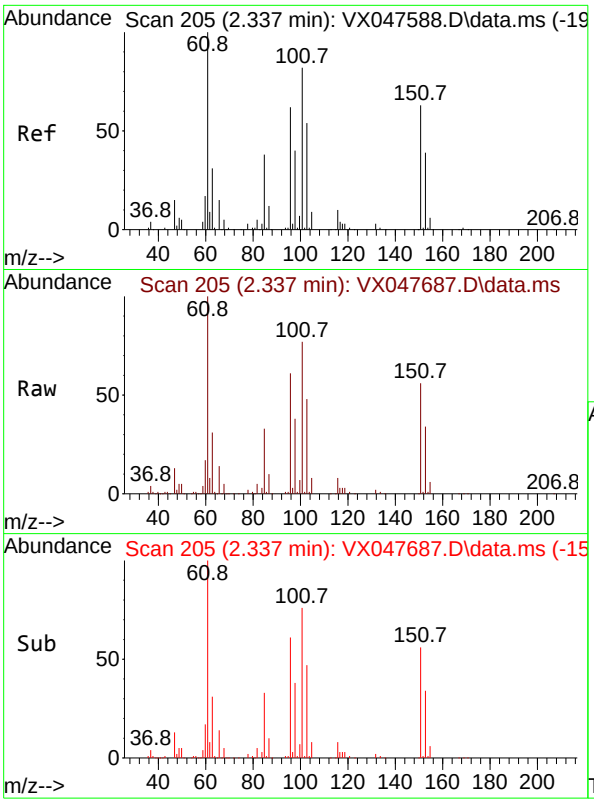


#8
Diethyl Ether
Concen: 54.429 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 74 Resp: 68004

Ion	Ratio	Lower	Upper
74	100		
45	103.2	52.3	156.8

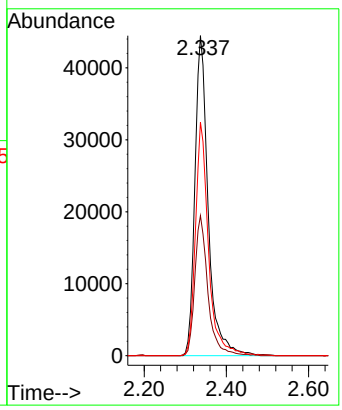




#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.814 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:101 Resp: 9967

Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.5	53.3
151	71.7	59.4	89.0



Instrument :
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ClientSampleId :
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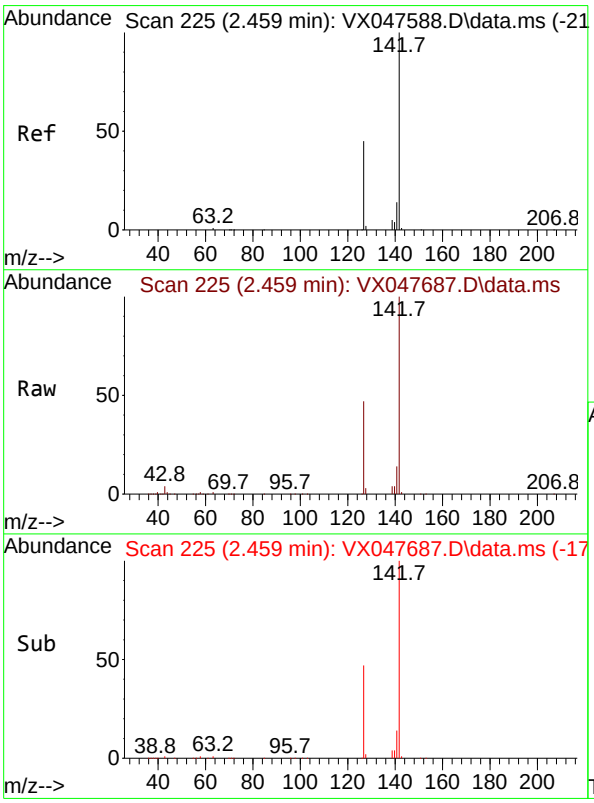
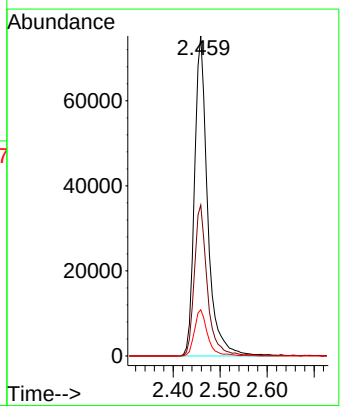
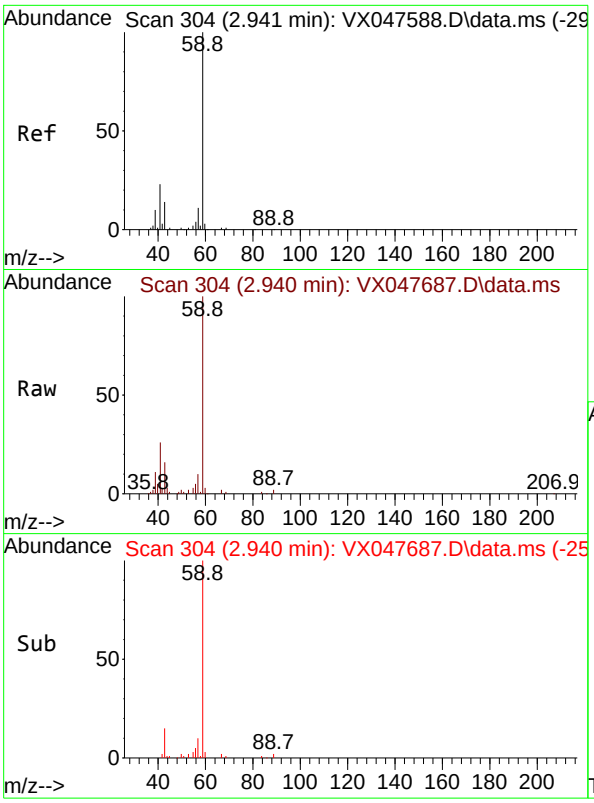


#10
Methyl Iodide
Concen: 52.731 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:142 Resp: 146871

Ion	Ratio	Lower	Upper
142	100		
127	46.7	37.2	55.8
141	14.4	11.4	17.0





#11
Tert butyl alcohol
Concen: 212.661 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 59 Resp: 5821

Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
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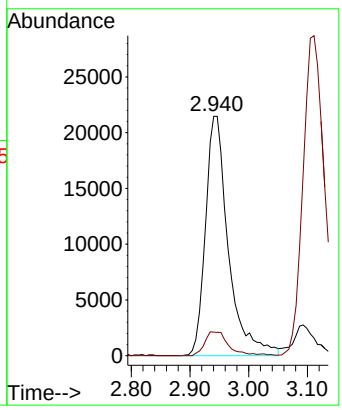
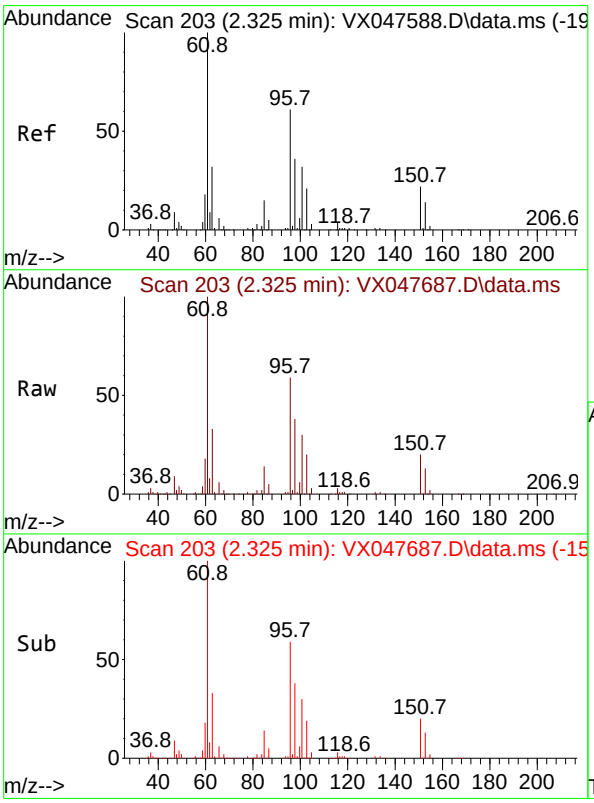
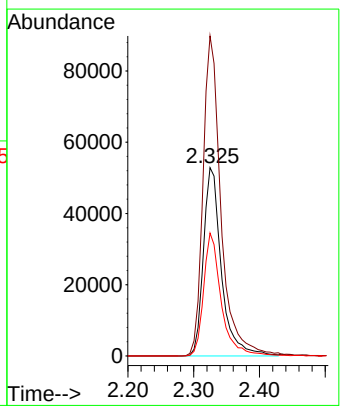


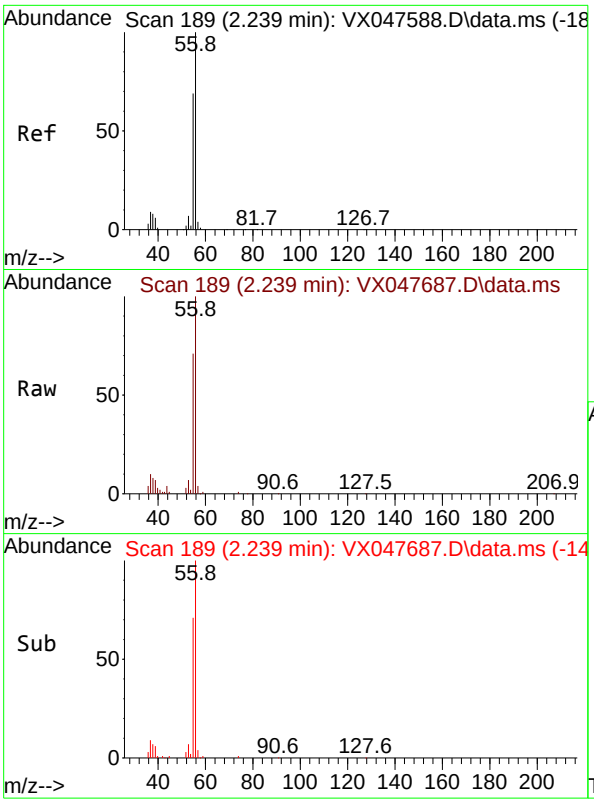


#12
1,1-Dichloroethene
Concen: 55.015 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 96 Resp: 100925

Ion	Ratio	Lower	Upper
96	100		
61	169.9	131.0	196.6
98	65.2	47.7	71.5

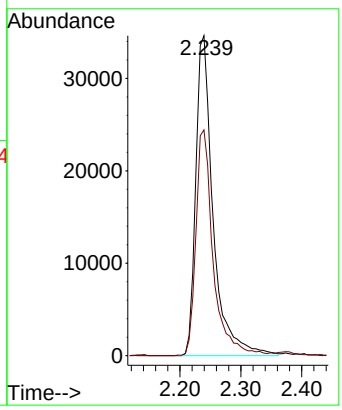




#13
Acrolein
Concen: 271.404 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 56 Resp: 6846

Ion	Ratio	Lower	Upper
56	100		
55	70.2	57.2	85.8



Instrument :
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ClientSampleId :
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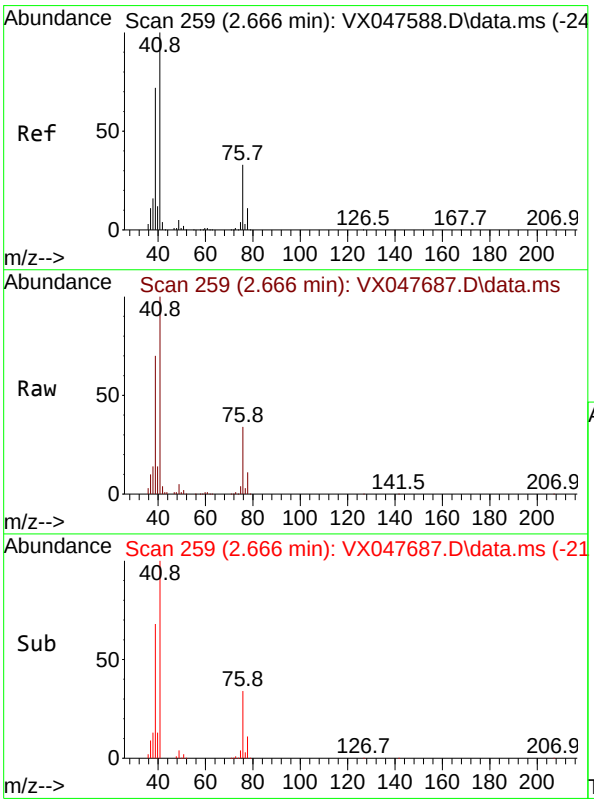
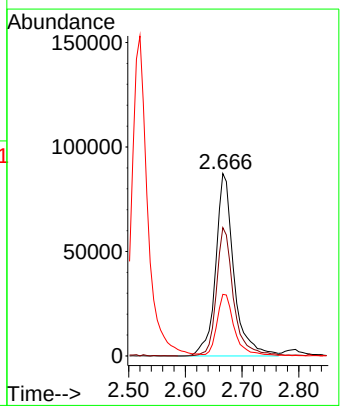
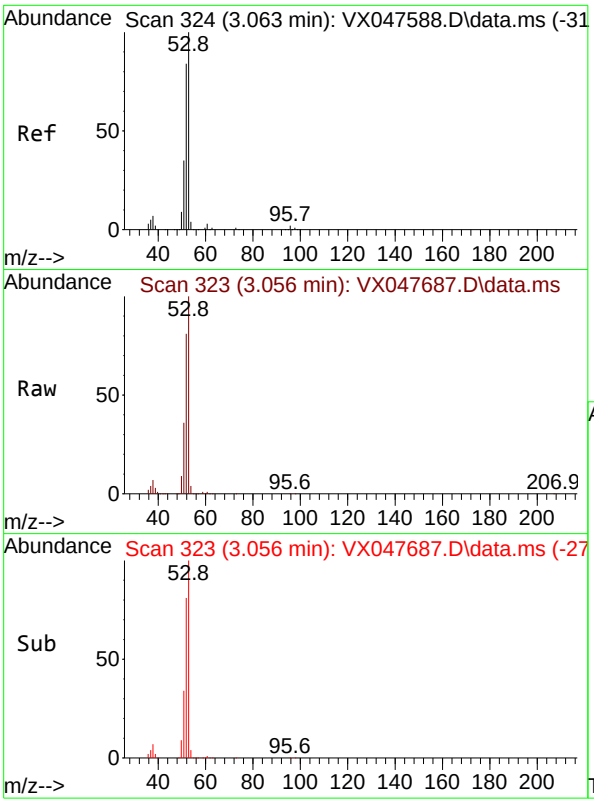


#14
Allyl chloride
Concen: 51.642 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 41 Resp: 195491

Ion	Ratio	Lower	Upper
41	100		
39	66.2	54.7	82.1
76	32.4	25.7	38.5

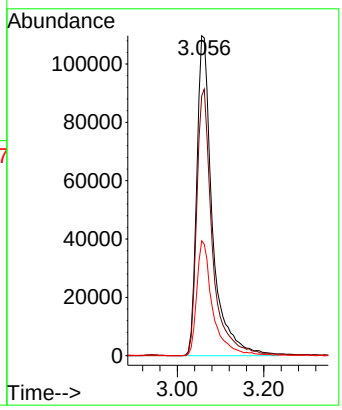




#15
Acrylonitrile
Concen: 272.421 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 53 Resp: 27620

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.4	99.6
51	36.7	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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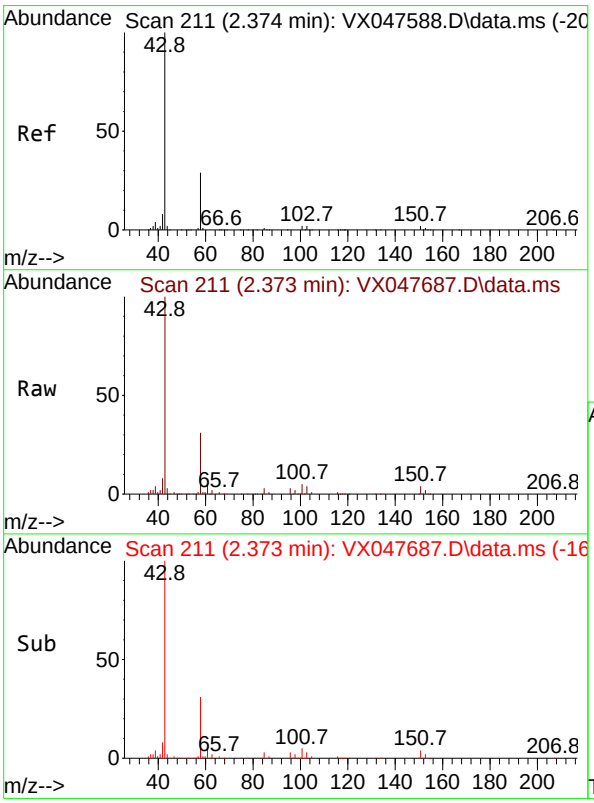
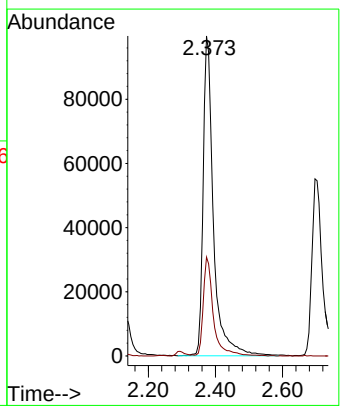
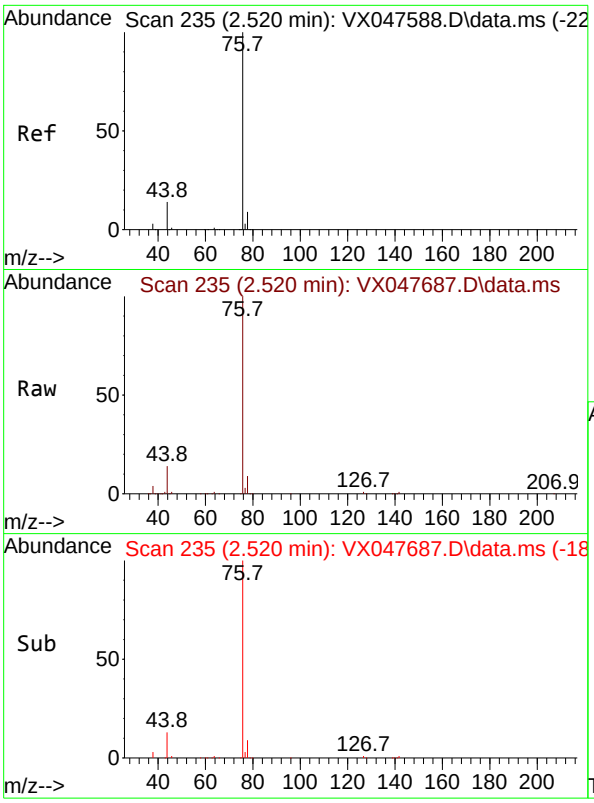


#16
Acetone
Concen: 198.313 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 211924

Ion	Ratio	Lower	Upper
43	100		
58	31.2	23.4	35.0





#17
Carbon Disulfide
Concen: 57.679 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 76 Resp: 28967

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.8	10.2

Instrument :
MSVOA_X
ClientSampleId :
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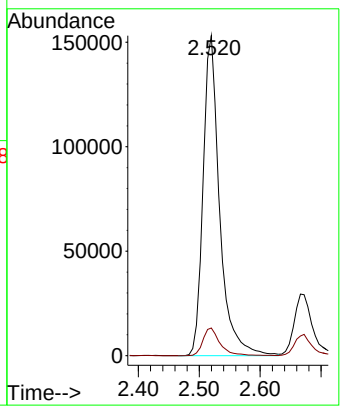
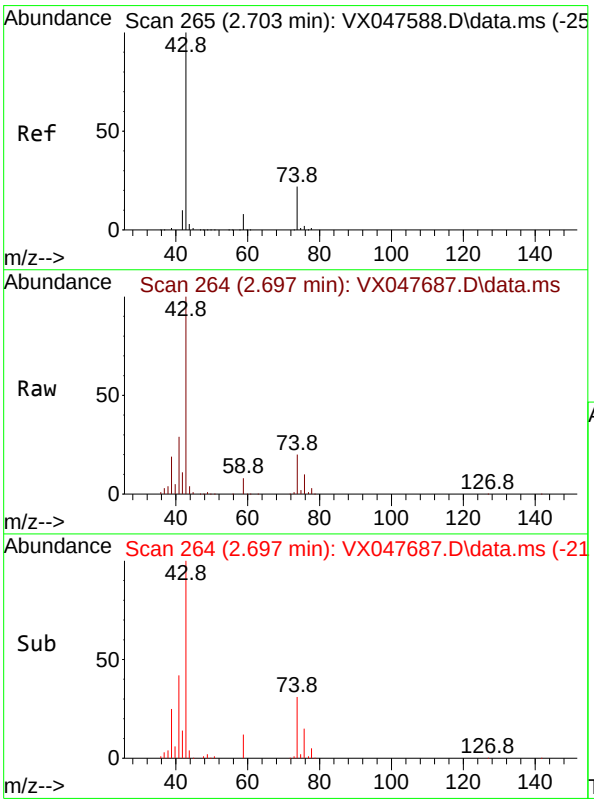
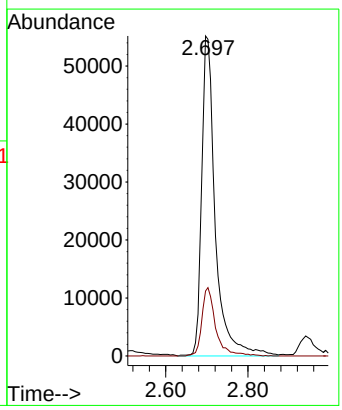


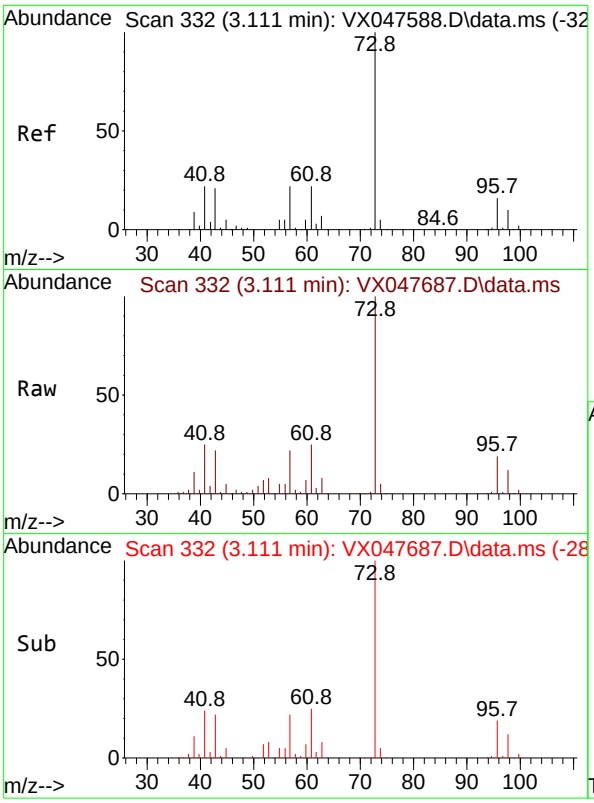


#18
Methyl Acetate
Concen: 53.432 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 127073

Ion	Ratio	Lower	Upper
43	100		
74	21.7	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 52.436 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 73 Resp: 35115

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2

Instrument :
MSVOA_X
ClientSampleId :
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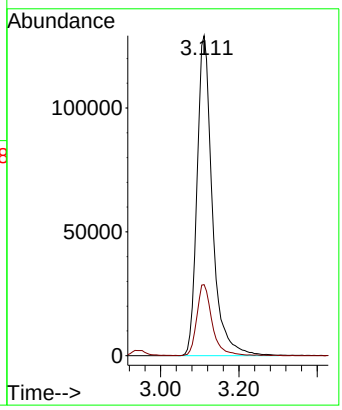
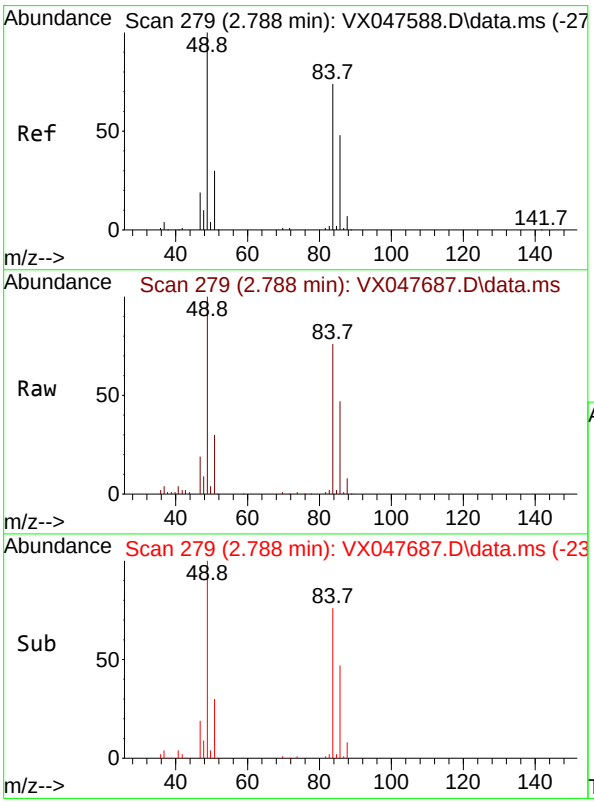
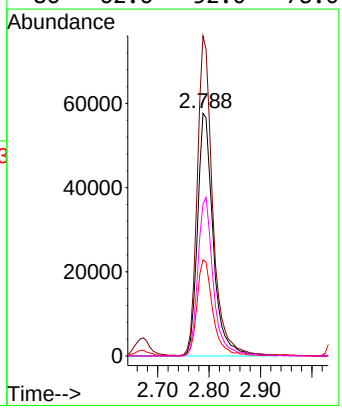


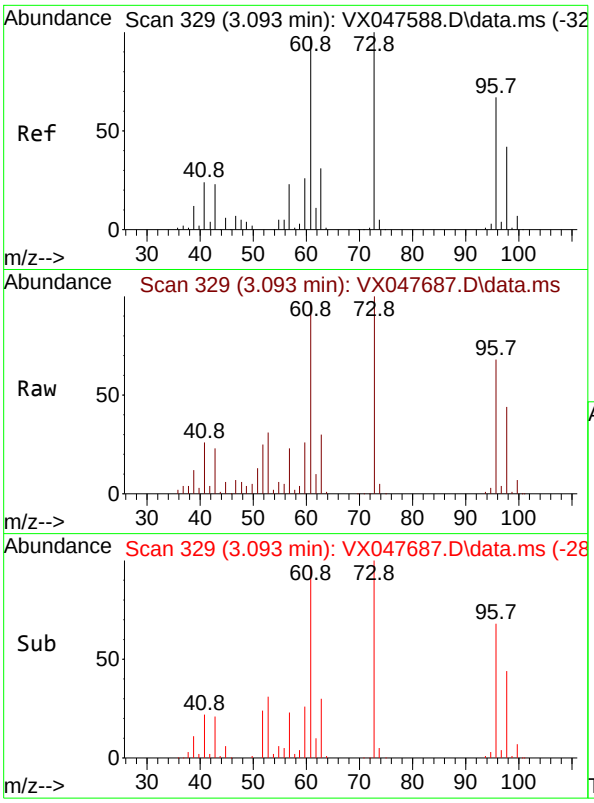


#20
Methylene Chloride
Concen: 54.250 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 84 Resp: 122715

Ion	Ratio	Lower	Upper
84	100		
49	131.7	108.6	162.8
51	40.1	32.6	48.8
86	62.6	52.0	78.0

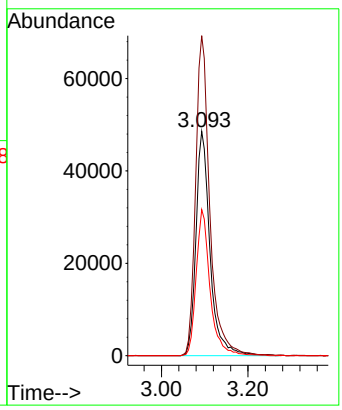




#21
trans-1,2-Dichloroethene
Concen: 55.385 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 96 Resp: 10938

Ion	Ratio	Lower	Upper
96	100		
61	142.7	116.2	174.2
98	65.1	49.3	73.9



Instrument :
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ClientSampleId :
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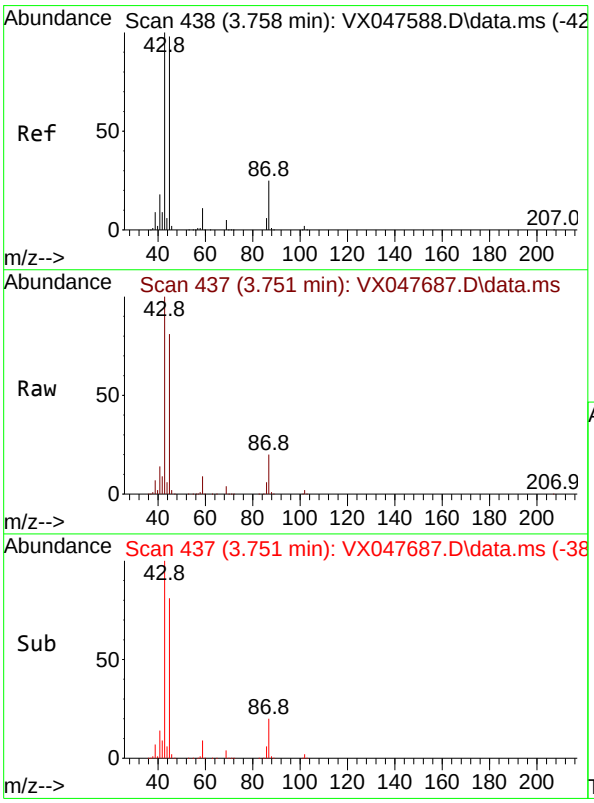
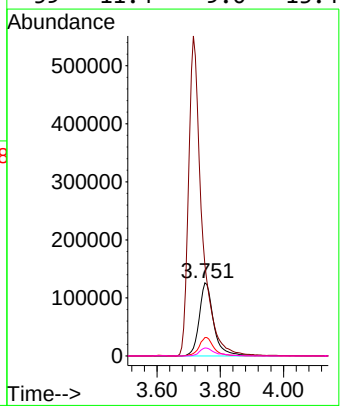
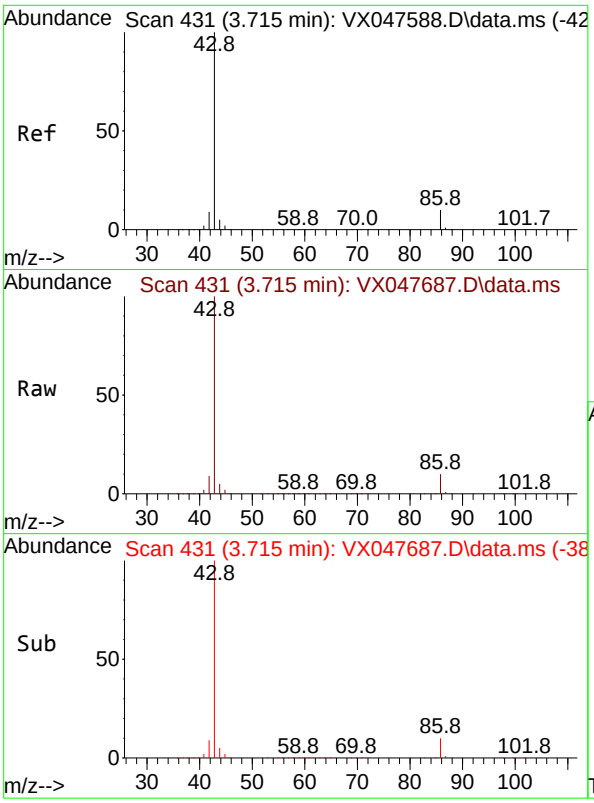


#22
Diisopropyl ether
Concen: 54.541 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 45 Resp: 400135

Ion	Ratio	Lower	Upper
45	100		
43	123.7	81.0	121.4#
87	25.1	20.3	30.5
59	11.4	9.0	13.4

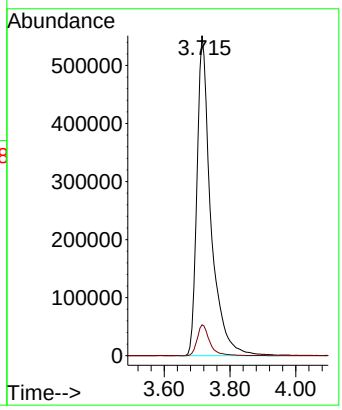




#23
Vinyl Acetate
Concen: 274.498 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 161177

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
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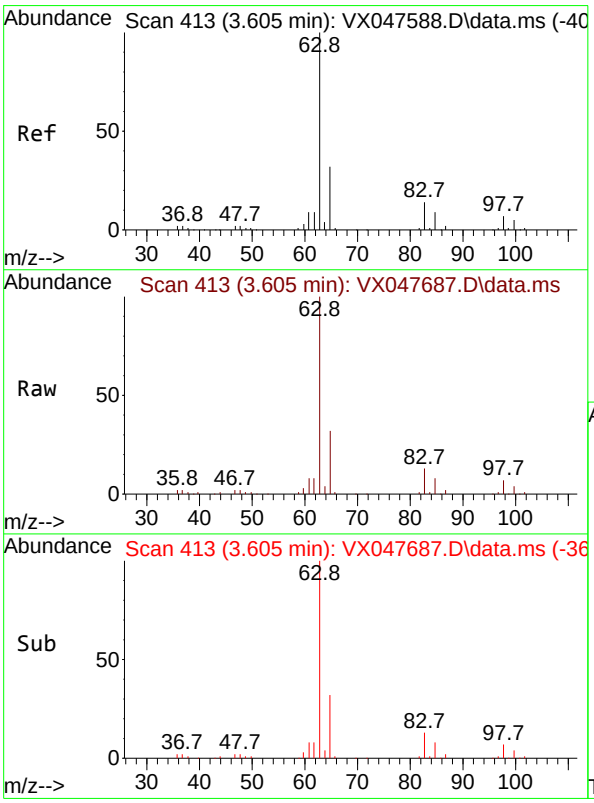
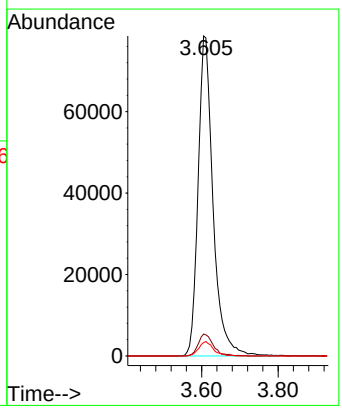
Supervised By :Mahesh Dadoda 09/22/2025

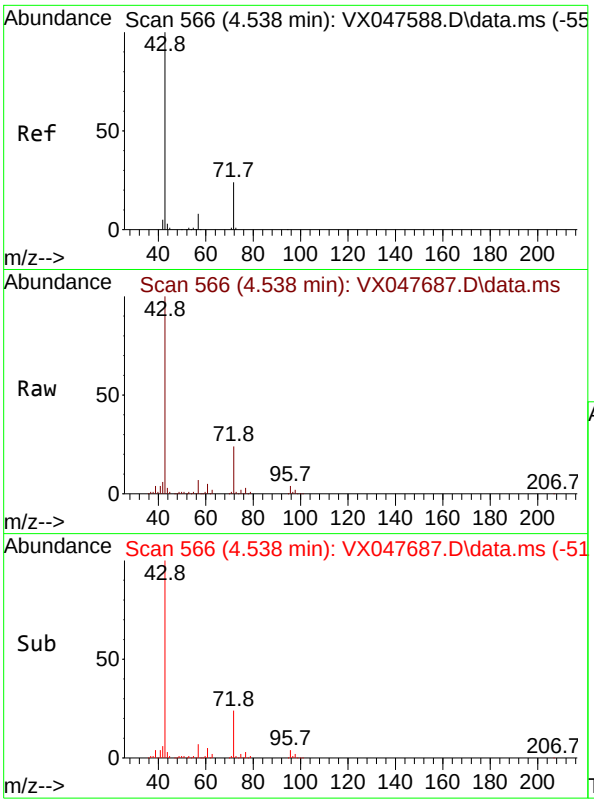


#24
1,1-Dichloroethane
Concen: 54.560 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 63 Resp: 212751

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.2	2.3	6.9





#25
2-Butanone
Concen: 247.197 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 32951

Ion	Ratio	Lower	Upper
43	100		
72	24.5	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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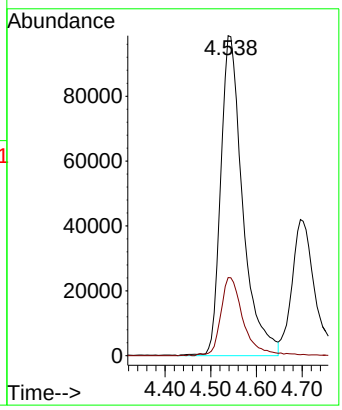
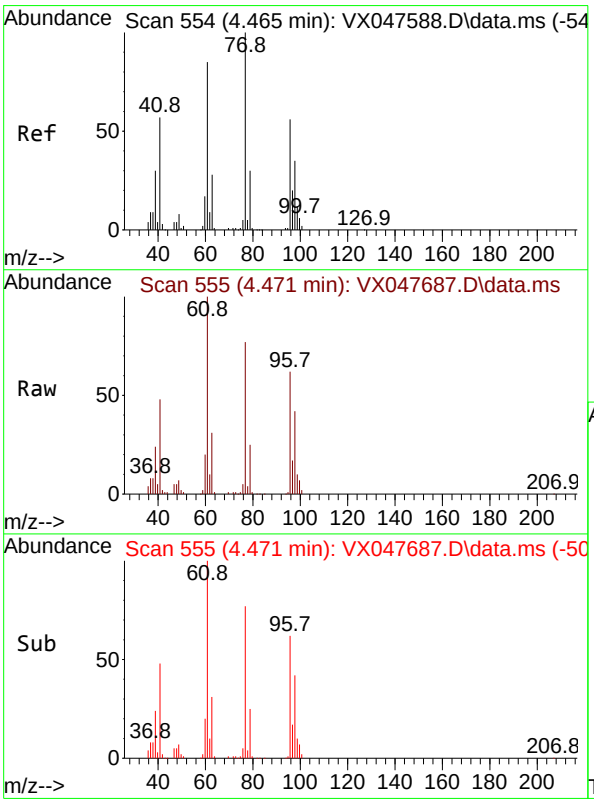
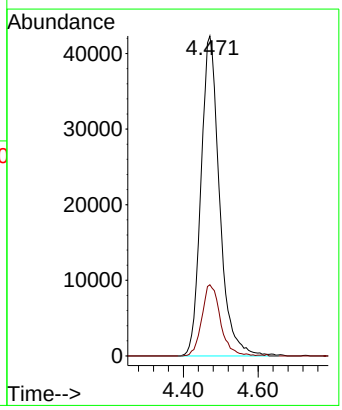


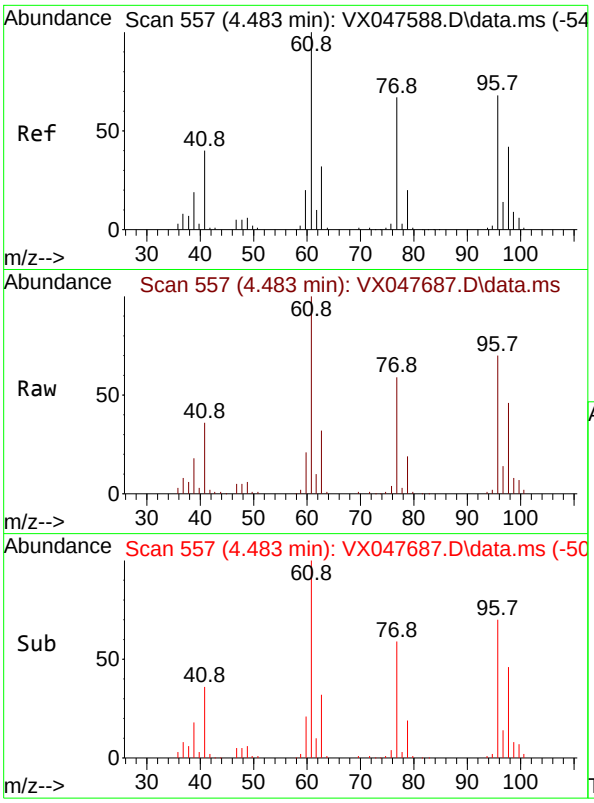


#26
2,2-Dichloropropane
Concen: 44.928 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 77 Resp: 145629

Ion	Ratio	Lower	Upper
77	100		
97	22.4	10.9	32.7

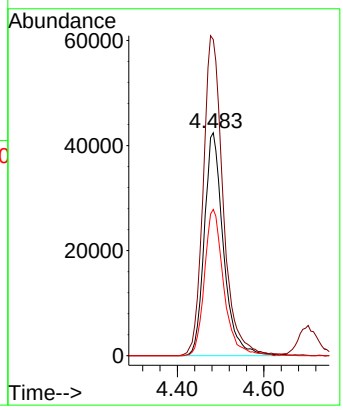




#27
cis-1,2-Dichloroethene
Concen: 53.677 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 96 Resp: 12983

Ion	Ratio	Lower	Upper
96	100		
61	149.6	0.0	303.2
98	66.1	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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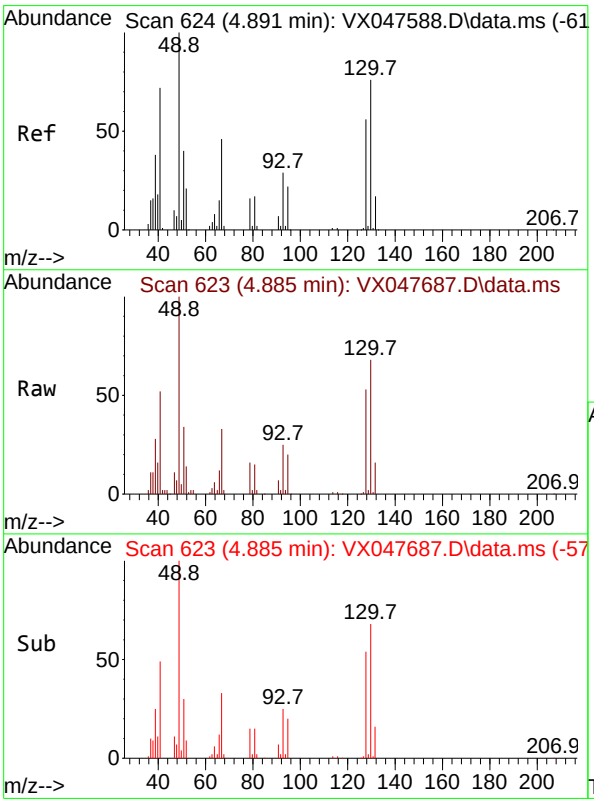
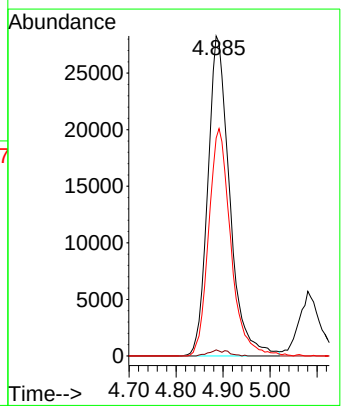
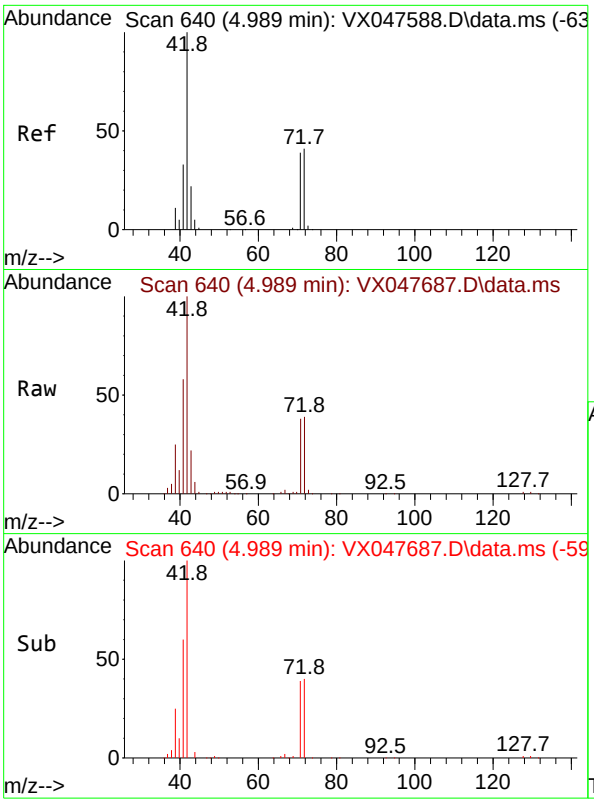


#28
Bromochloromethane
Concen: 53.668 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 49 Resp: 91361

Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	3.2
130	71.8	57.8	86.8





#29
Tetrahydrofuran
Concen: 260.441 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 42 Resp: 20884

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.2	51.2
71	39.4	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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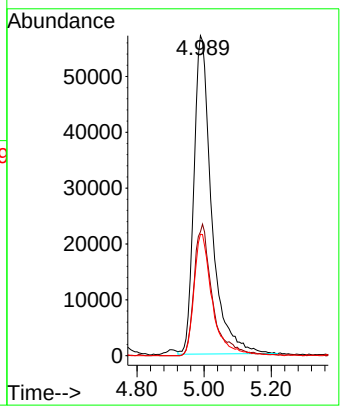
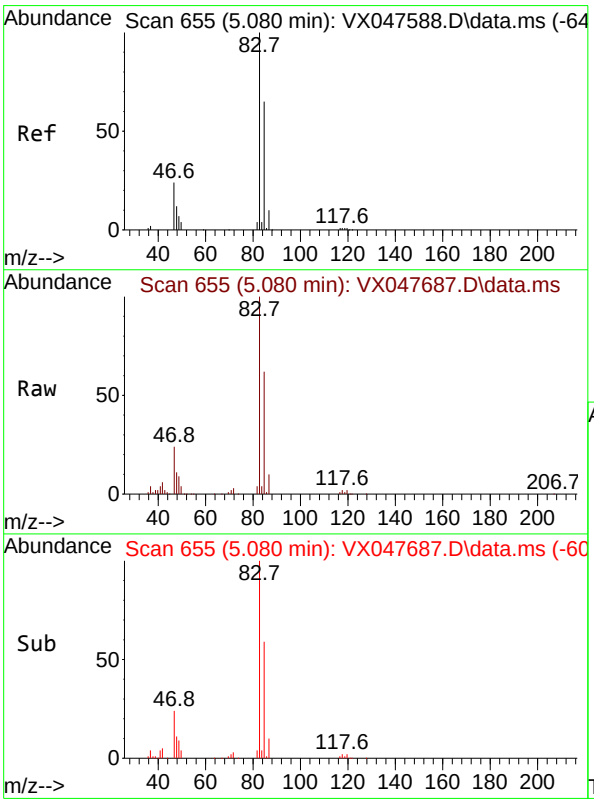
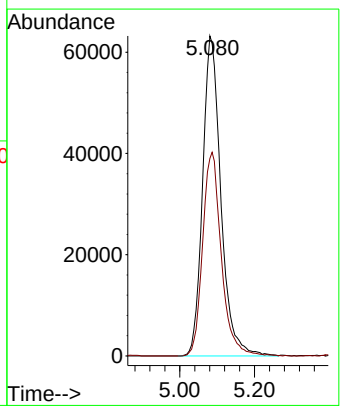


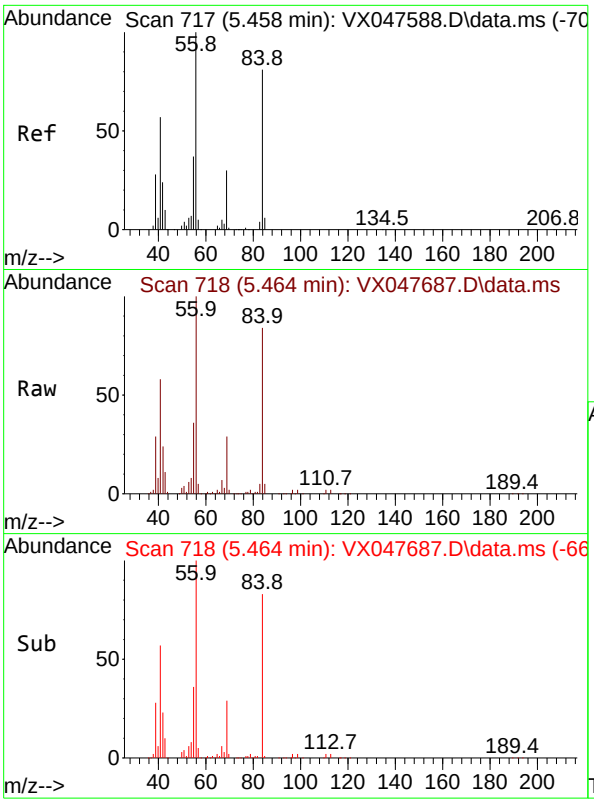


#30
Chloroform
Concen: 54.443 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 83 Resp: 214531

Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.8	77.6

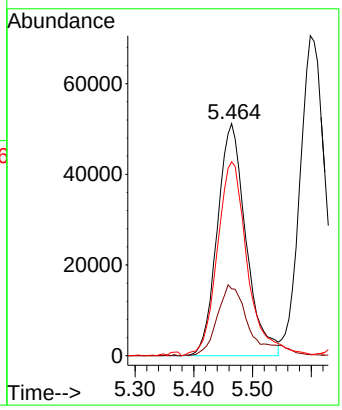




#31
Cyclohexane
Concen: 53.387 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 56 Resp: 17338

Ion	Ratio	Lower	Upper
56	100		
69	28.3	23.8	35.8
84	82.0	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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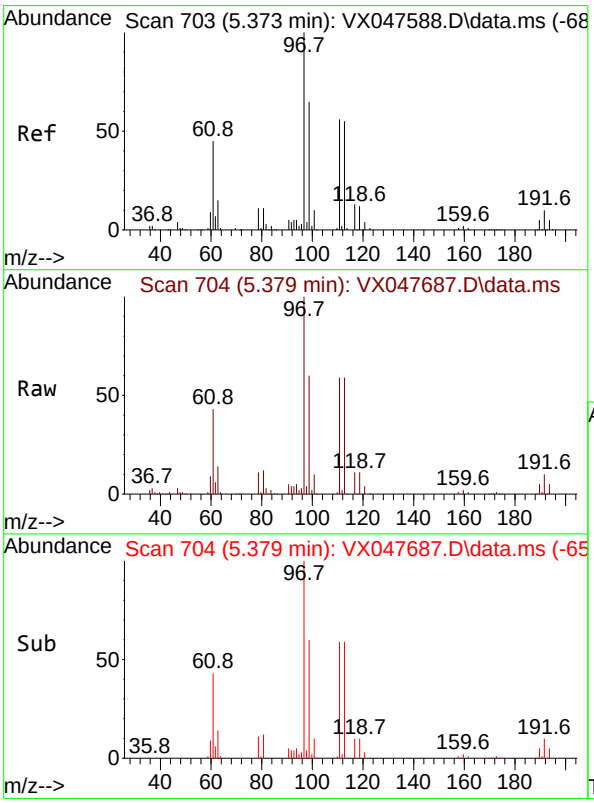
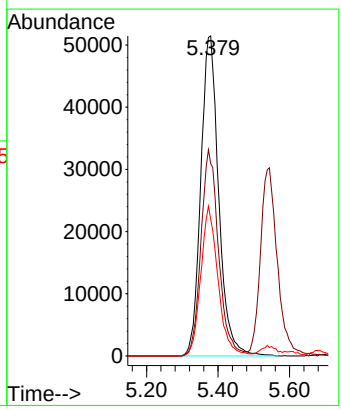
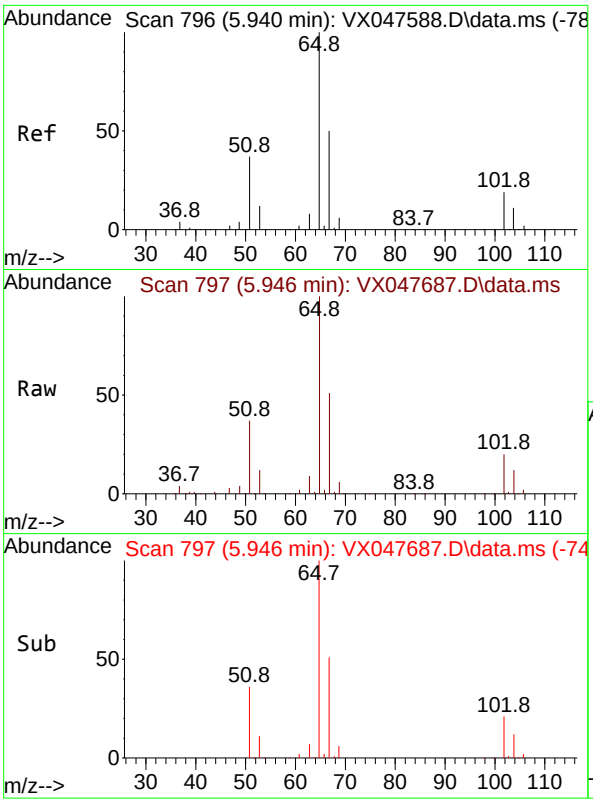


#32
1,1,1-Trichloroethane
Concen: 53.474 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 97 Resp: 178728

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	45.0	35.8	53.8

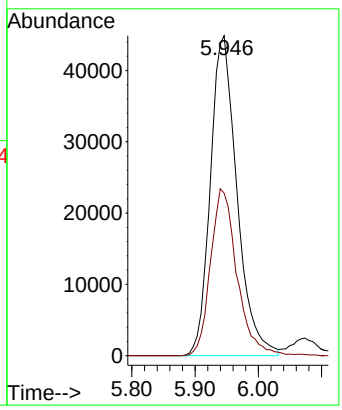




#33
1,2-Dichloroethane-d4
Concen: 53.282 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 65 Resp: 13095

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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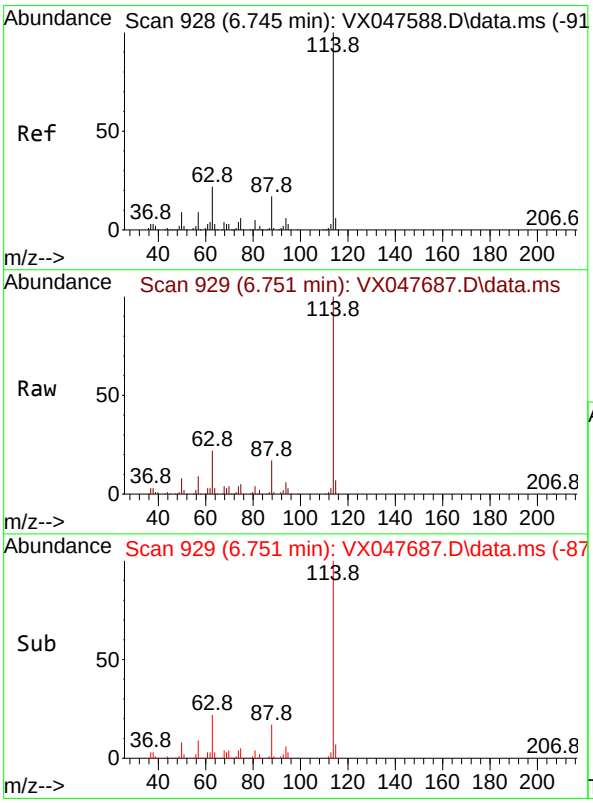
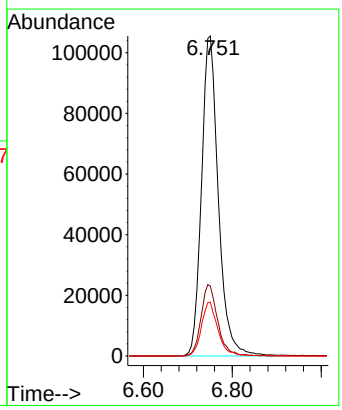
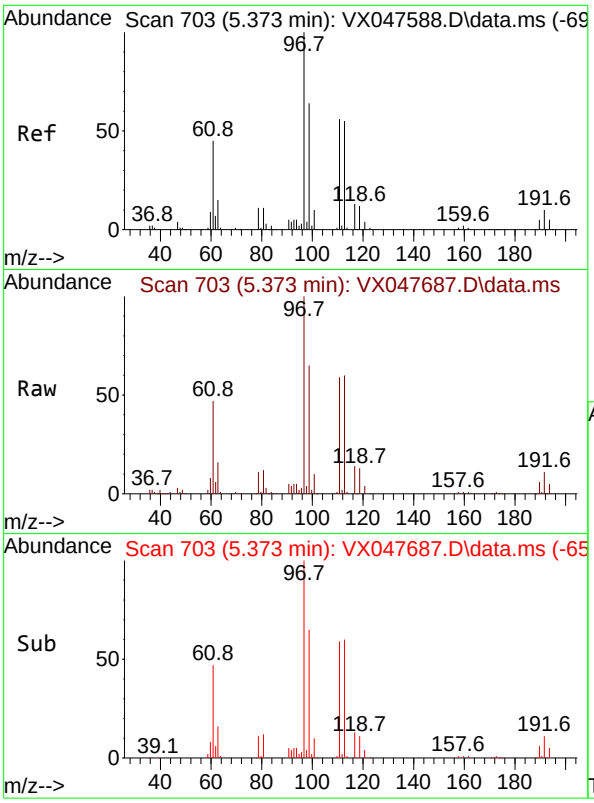


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:114 Resp: 278359

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.0
88	16.8	0.0	34.2

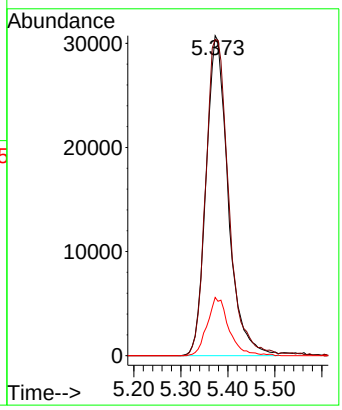




#35
Dibromofluoromethane
Concen: 53.721 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:113 Resp: 10028

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	17.9	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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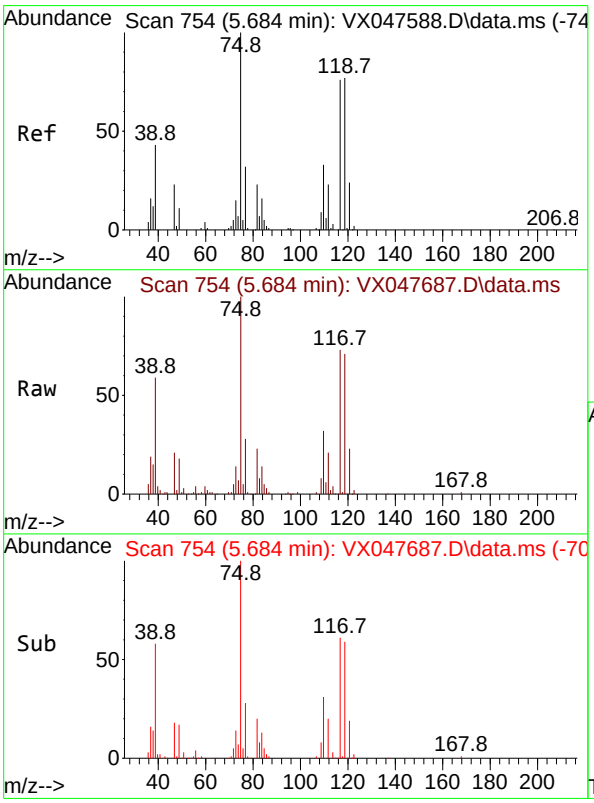
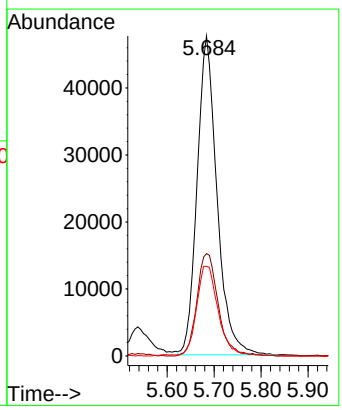
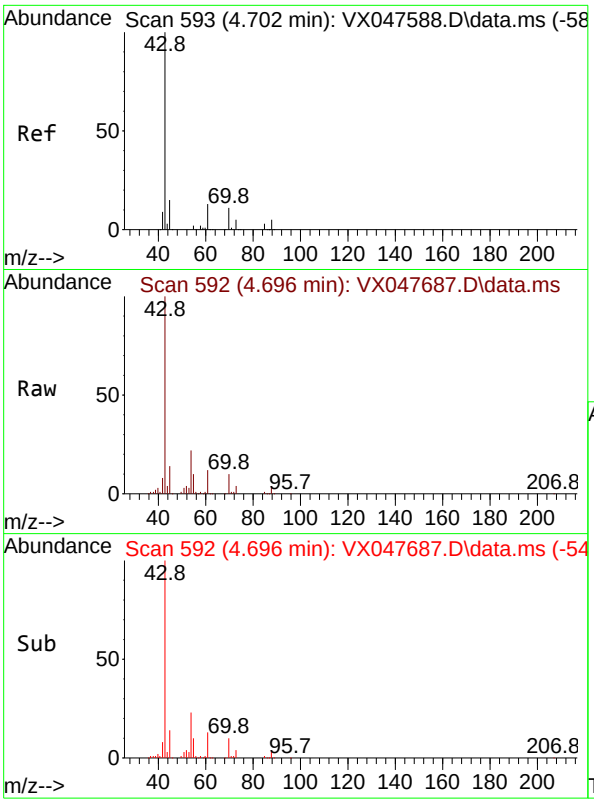


#36
1,1-Dichloropropene
Concen: 51.362 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 140108

Ion	Ratio	Lower	Upper
75	100		
110	34.5	16.7	50.1
77	30.8	24.3	36.5

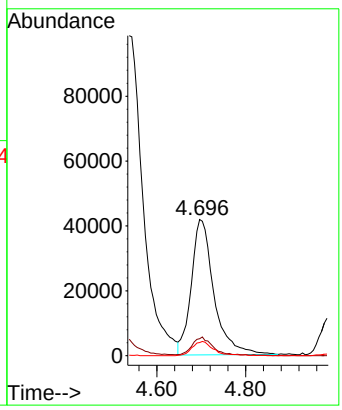




#37
Ethyl Acetate
Concen: 50.499 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 14749

Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.9	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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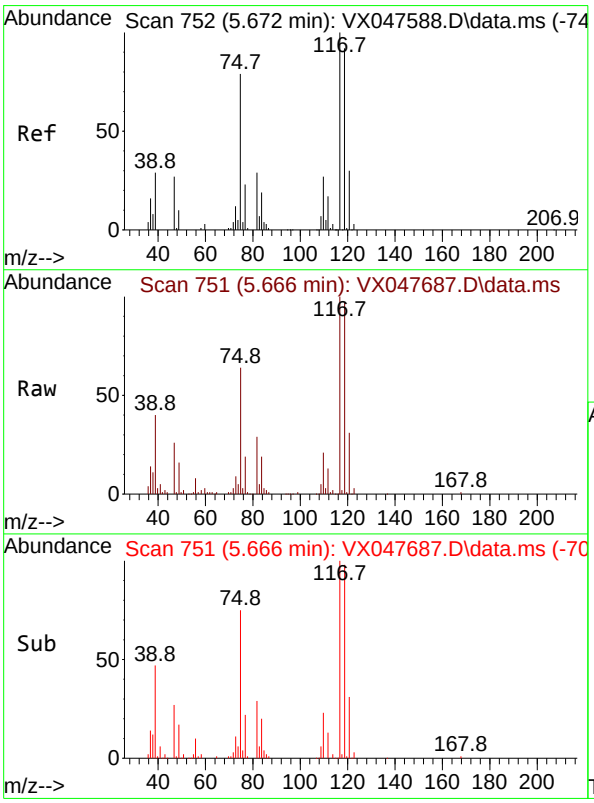
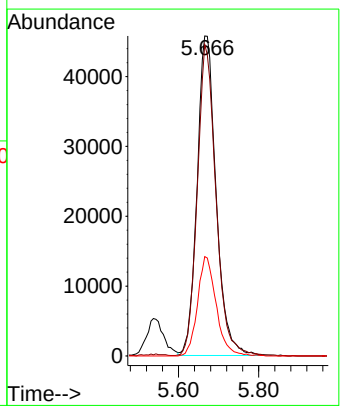
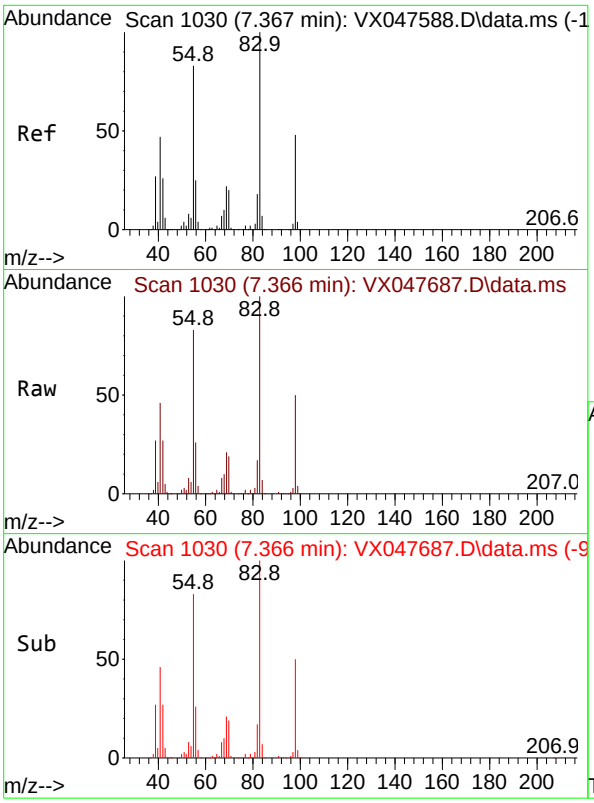


#38
Carbon Tetrachloride
Concen: 50.831 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:117 Resp: 150656

Ion	Ratio	Lower	Upper
117	100		
119	97.5	73.4	110.2
121	31.1	23.8	35.6

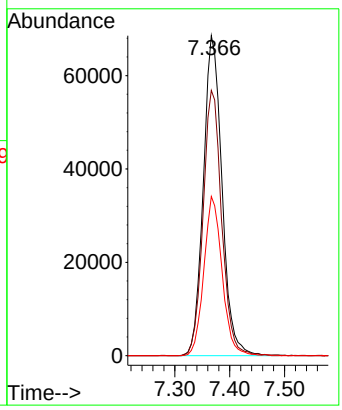




#39
Methylcyclohexane
Concen: 52.363 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 83 Resp: 16214

Ion	Ratio	Lower	Upper
83	100		
55	82.9	66.4	99.6
98	49.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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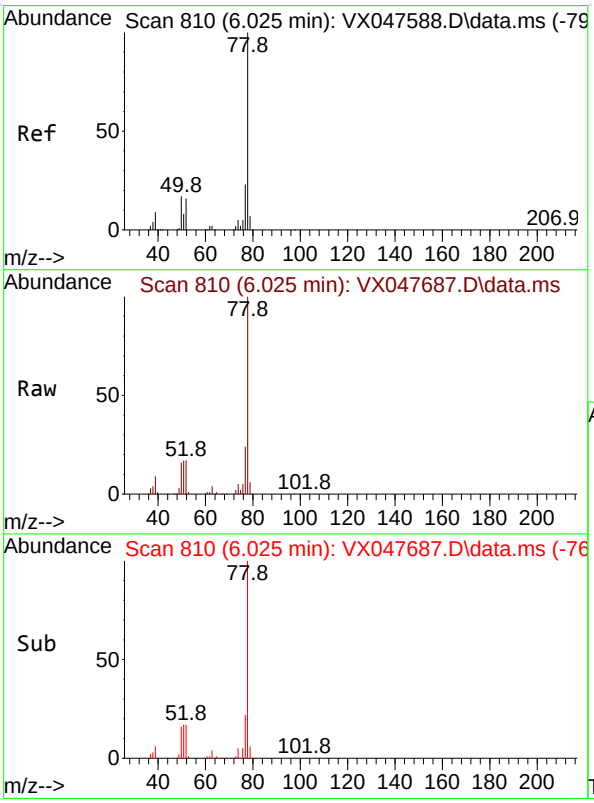
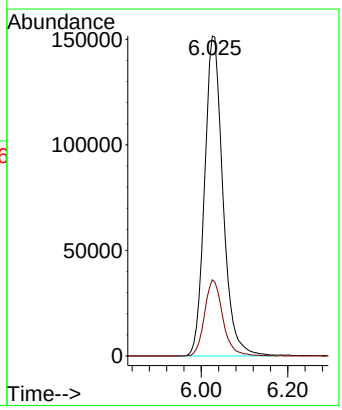
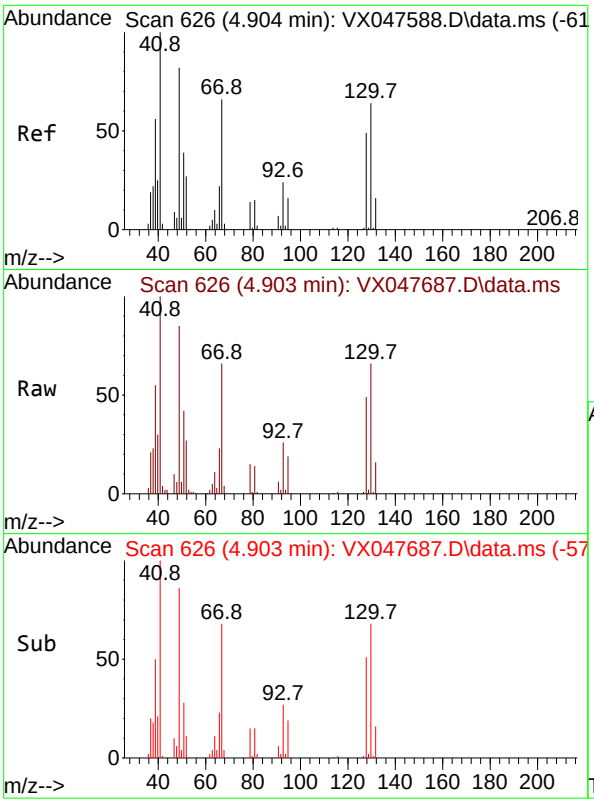


#40
Benzene
Concen: 53.802 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 78 Resp: 445760

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2

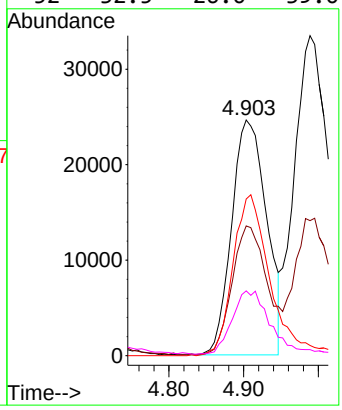




#41
Methacrylonitrile
Concen: 53.000 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 41 Resp: 7991

Ion	Ratio	Lower	Upper
41	100		
39	55.8	43.3	64.9
67	73.8	58.6	87.8
52	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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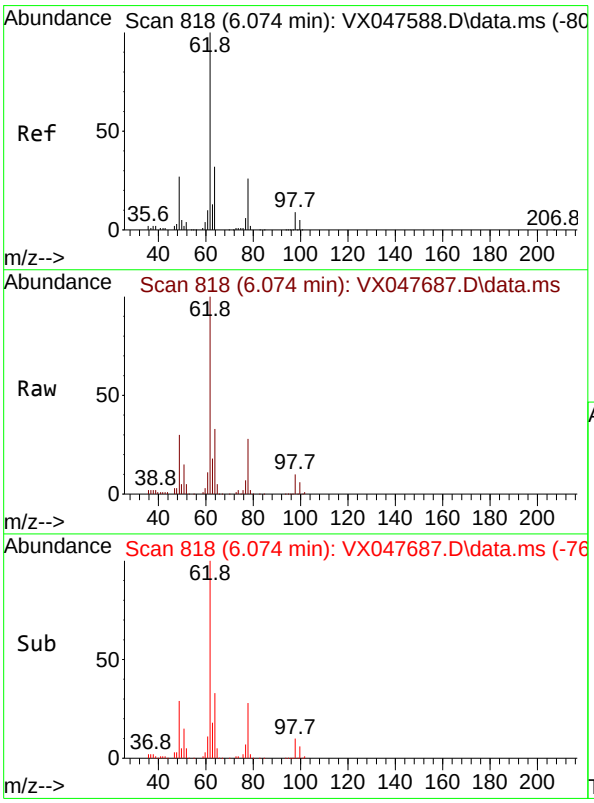
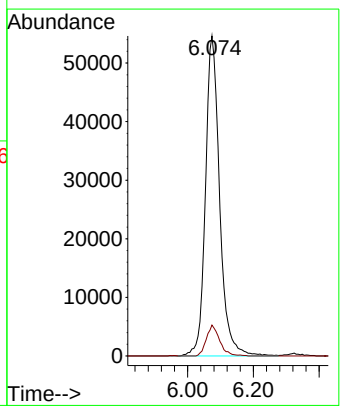
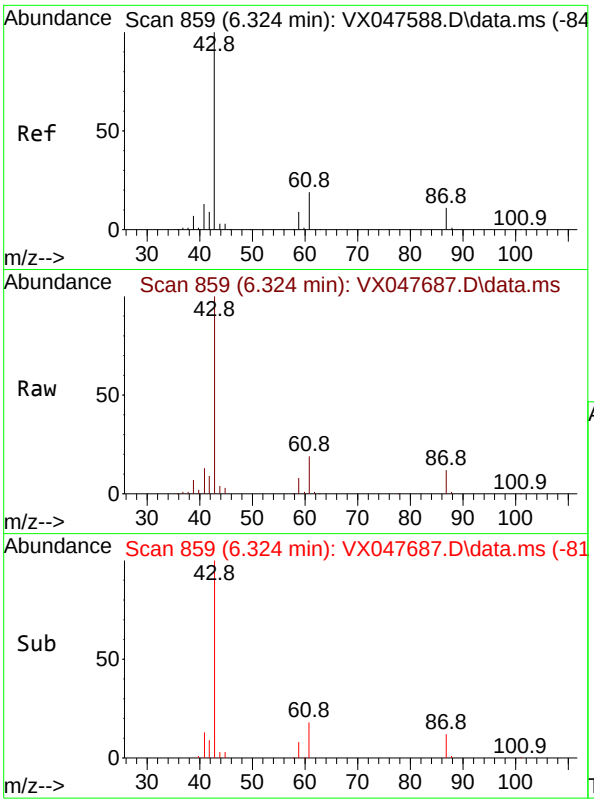


#42
1,2-Dichloroethane
Concen: 51.951 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 62 Resp: 163773

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0





#43
Isopropyl Acetate
Concen: 51.410 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 24626

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	12.3	9.6	14.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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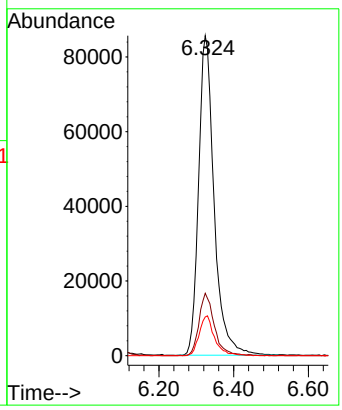
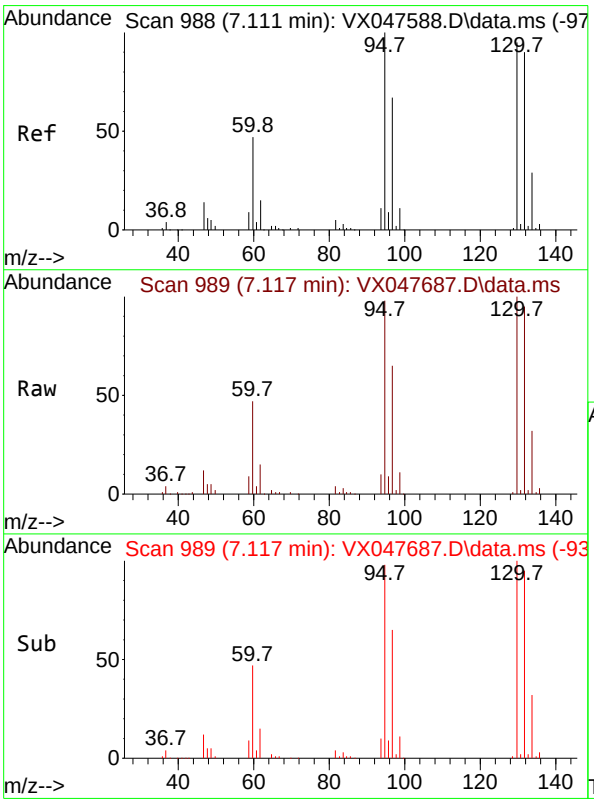
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

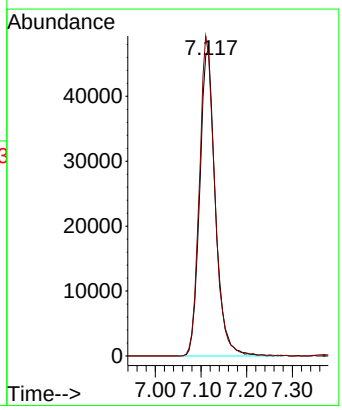


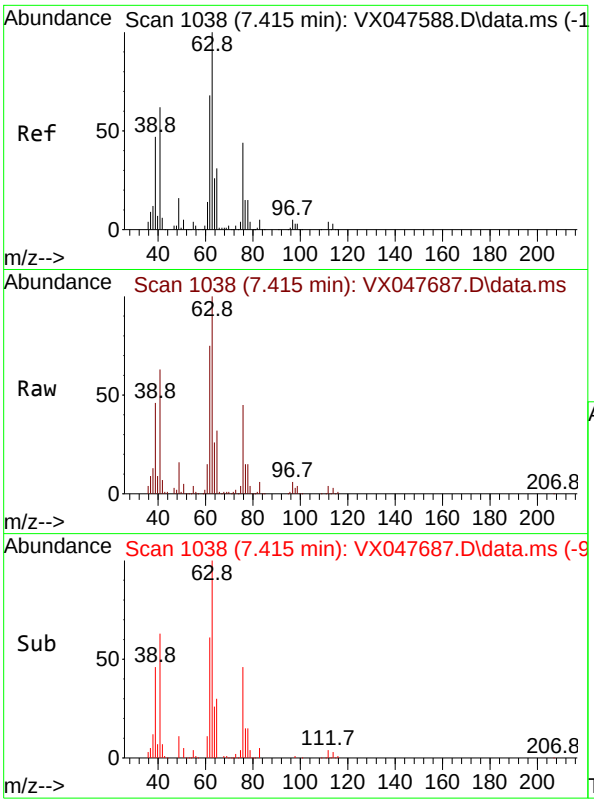


#44
Trichloroethene
Concen: 56.204 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:130 Resp: 112580

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	210.8

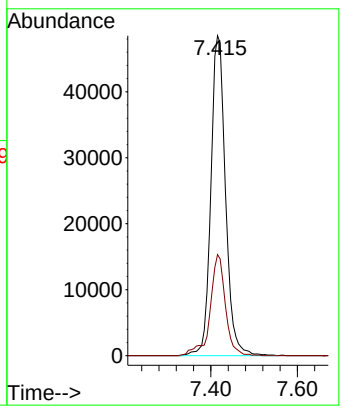




#45
1,2-Dichloropropane
Concen: 53.755 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 63 Resp: 114044

Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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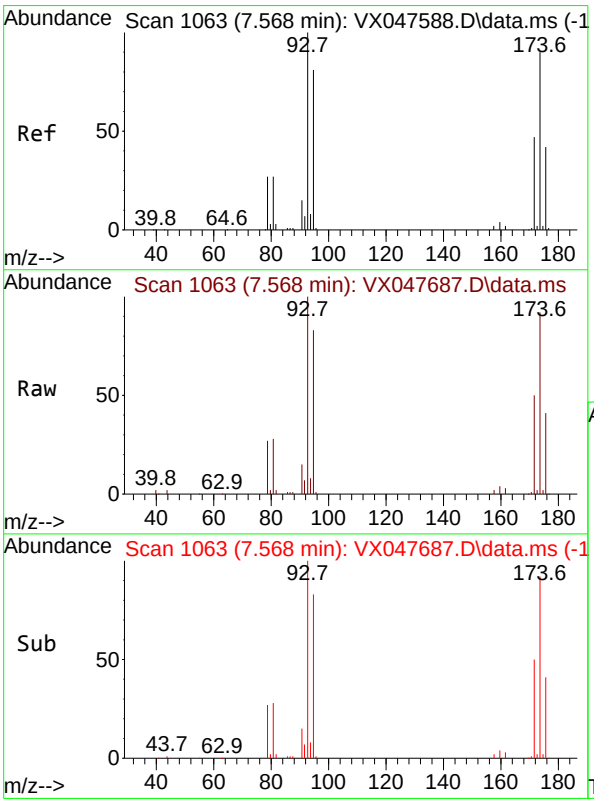
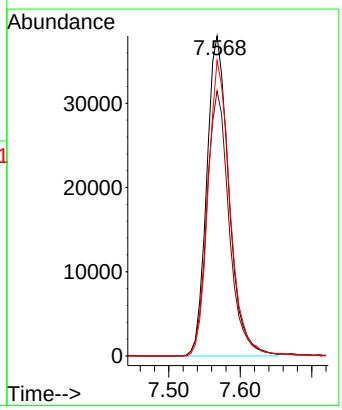
Supervised By :Mahesh Dadoda 09/22/2025

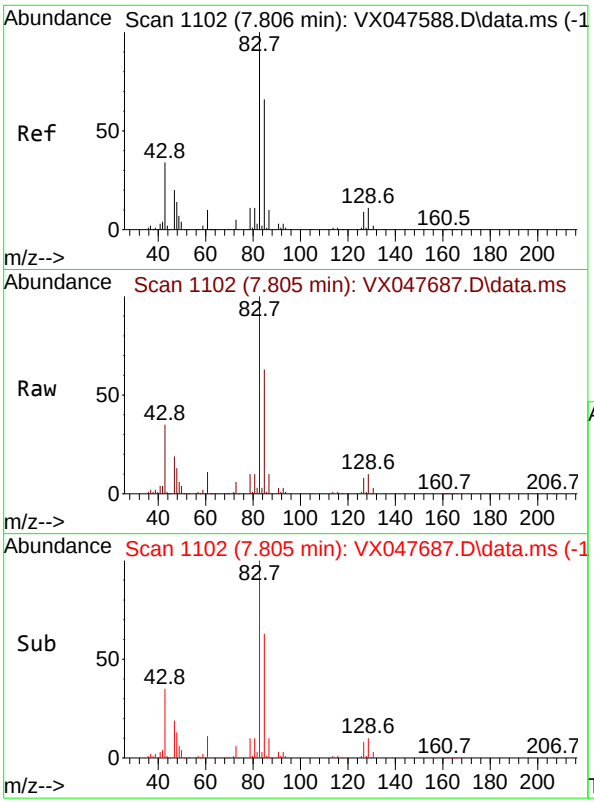


#46
Dibromomethane
Concen: 53.014 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 93 Resp: 81845

Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.0	97.6
174	91.9	71.6	107.4

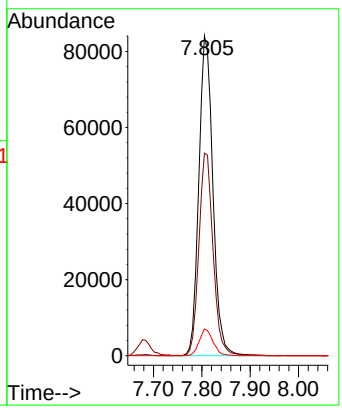




#47
Bromodichloromethane
Concen: 53.260 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 83 Resp: 16967

Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.5	78.7
127	8.4	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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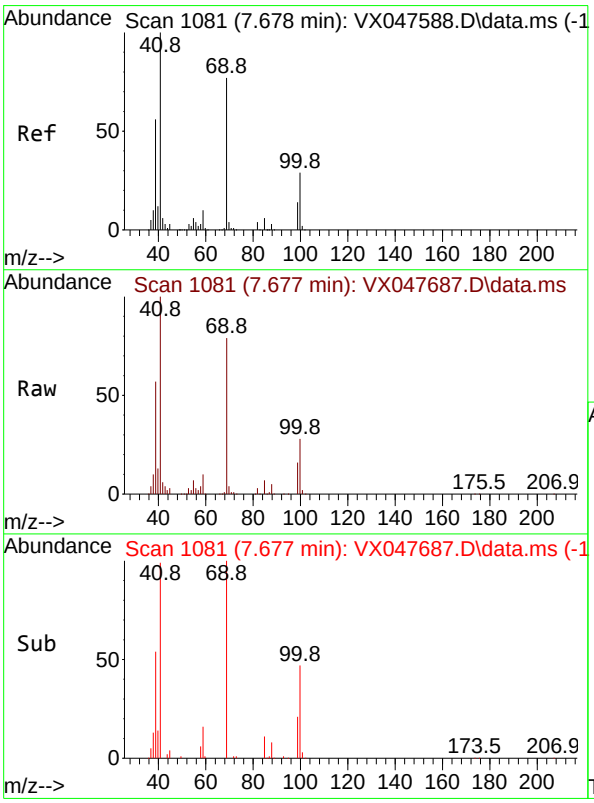
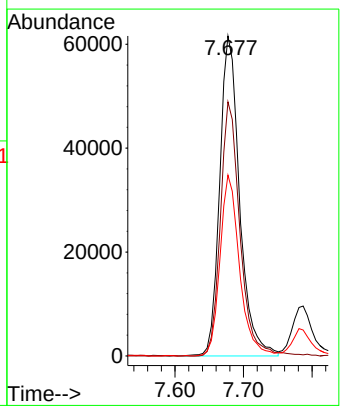
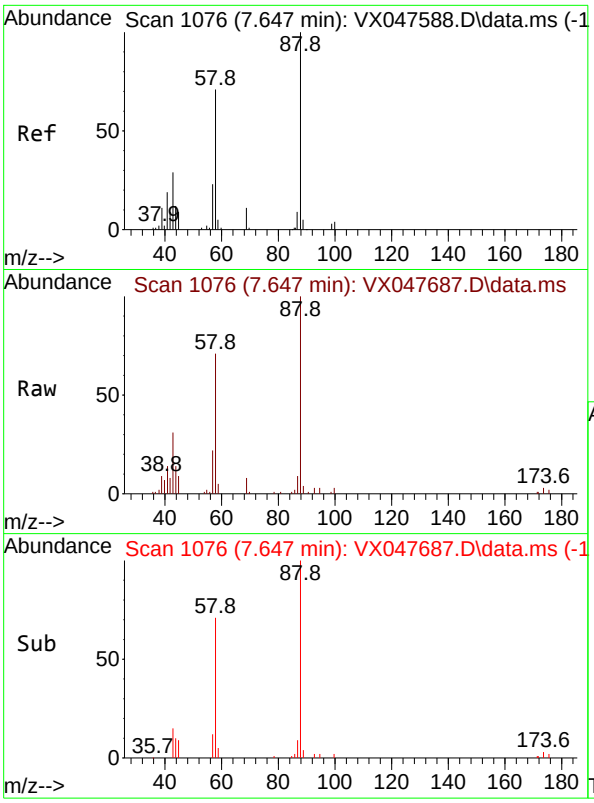


#48
Methyl methacrylate
Concen: 52.004 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 41 Resp: 124085

Ion	Ratio	Lower	Upper
41	100		
69	78.2	61.4	92.2
39	55.3	45.8	68.6





#49
1,4-Dioxane
Concen: 1102.850 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 88 Resp: 2659

Ion	Ratio	Lower	Upper
88	100		
43	42.3	30.2	45.2
58	74.2	59.5	89.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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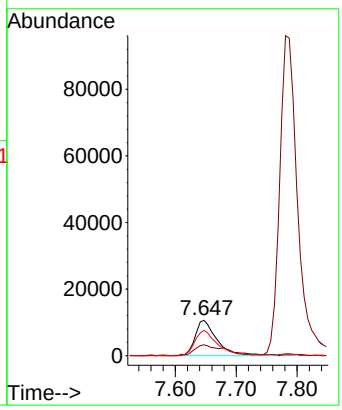
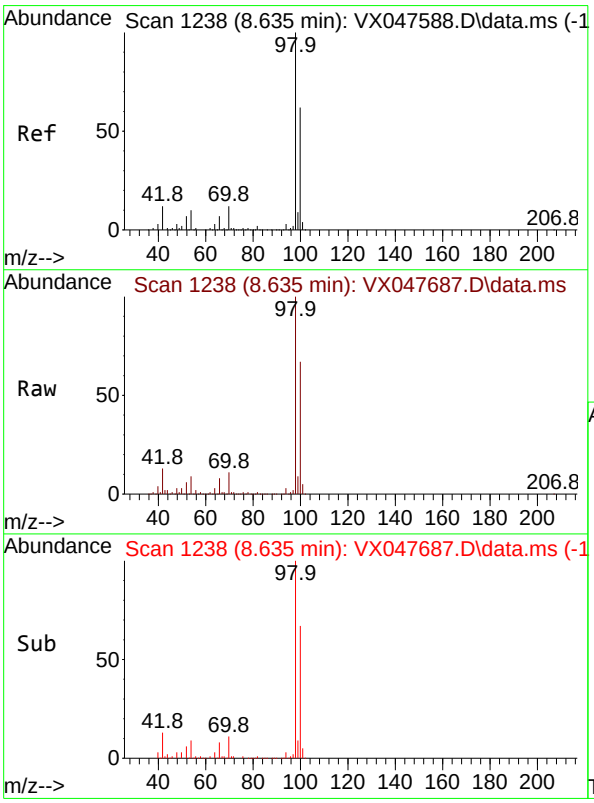
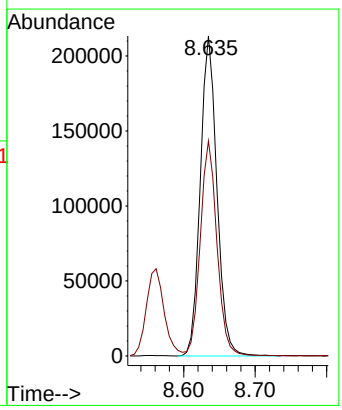


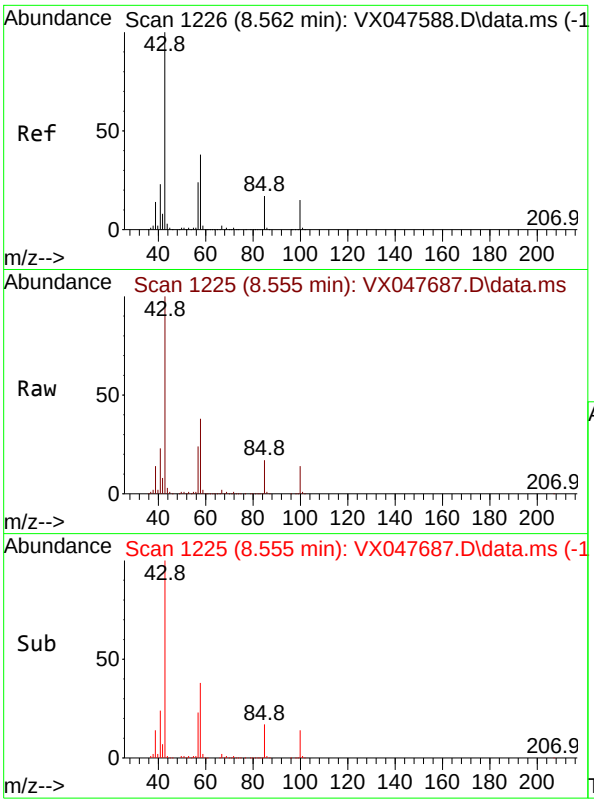


#50
Toluene-d8
Concen: 53.308 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 98 Resp: 344346

Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.0	79.4

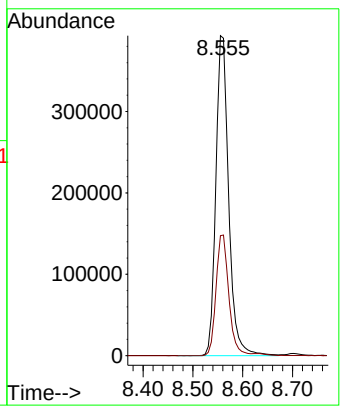




#51
4-Methyl-2-Pentanone
Concen: 264.517 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 70253

Ion	Ratio	Lower	Upper
43	100		
58	37.6	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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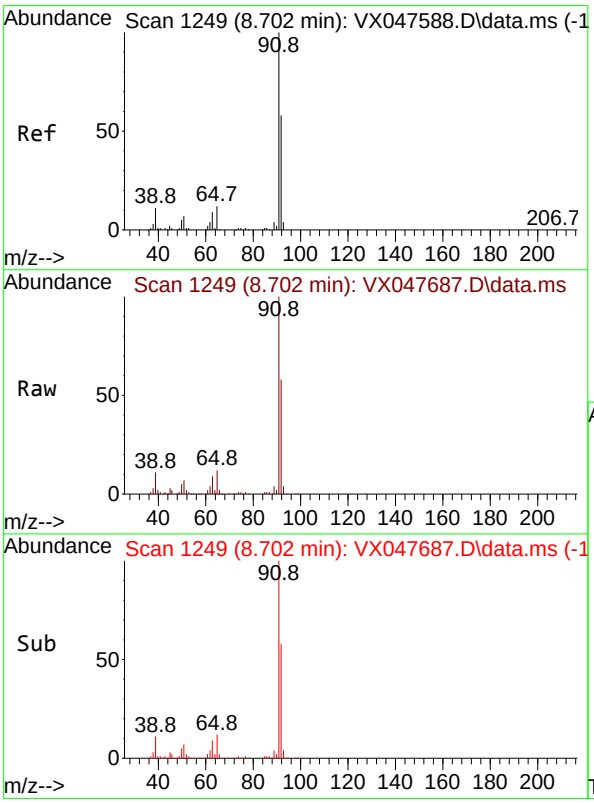
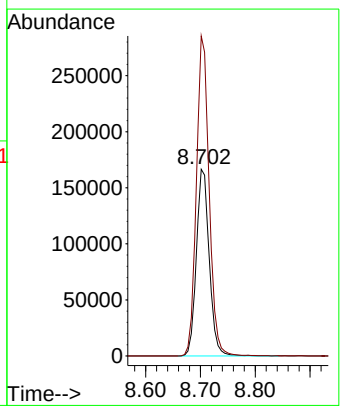
Supervised By :Mahesh Dadoda 09/22/2025

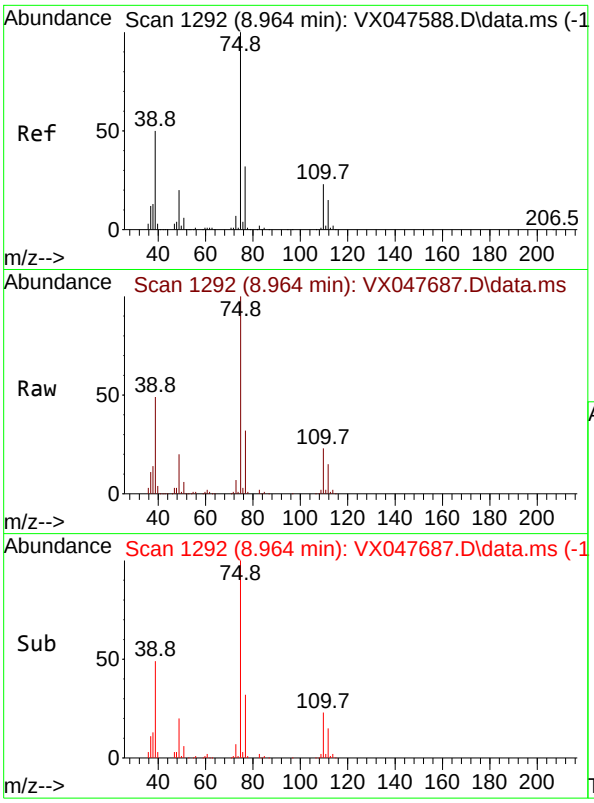


#52
Toluene
Concen: 53.368 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 92 Resp: 272421

Ion	Ratio	Lower	Upper
92	100		
91	169.4	137.1	205.7

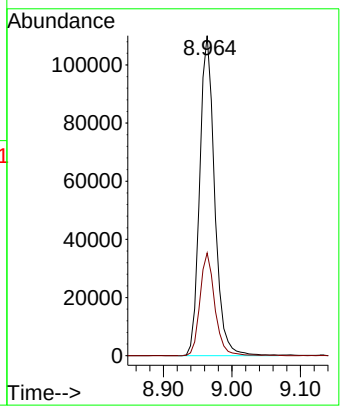




#53
t-1,3-Dichloropropene
Concen: 51.527 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 16744

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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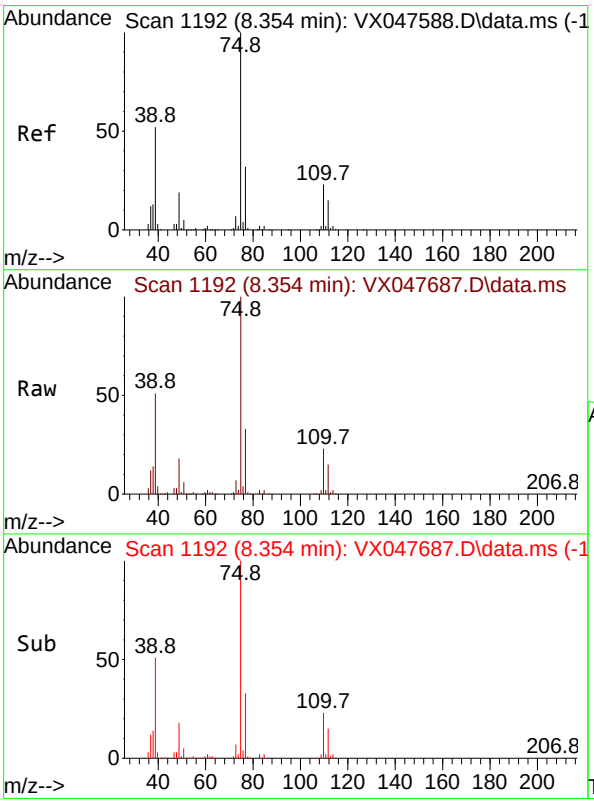
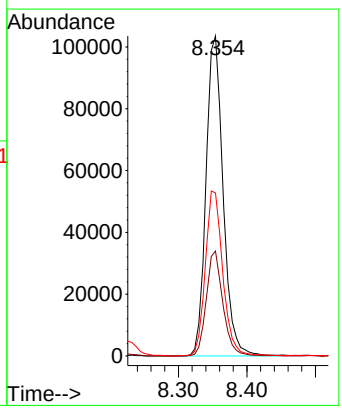
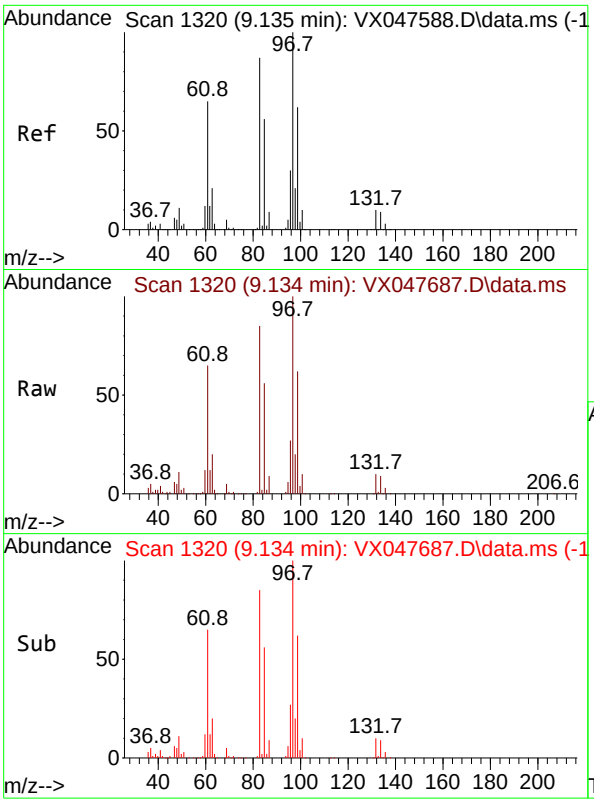


#54
cis-1,3-Dichloropropene
Concen: 51.815 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 179970

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.8	38.6
39	50.9	41.4	62.2

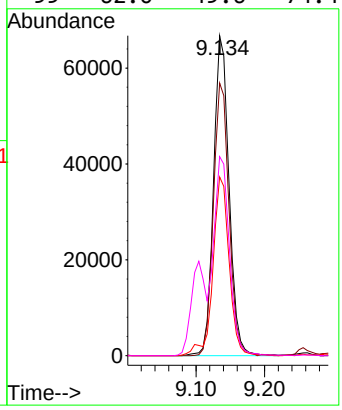




#55
1,1,2-Trichloroethane
Concen: 53.322 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 97 Resp: 10495

Ion	Ratio	Lower	Upper
97	100		
83	85.2	69.6	104.4
85	55.9	45.0	67.6
99	62.0	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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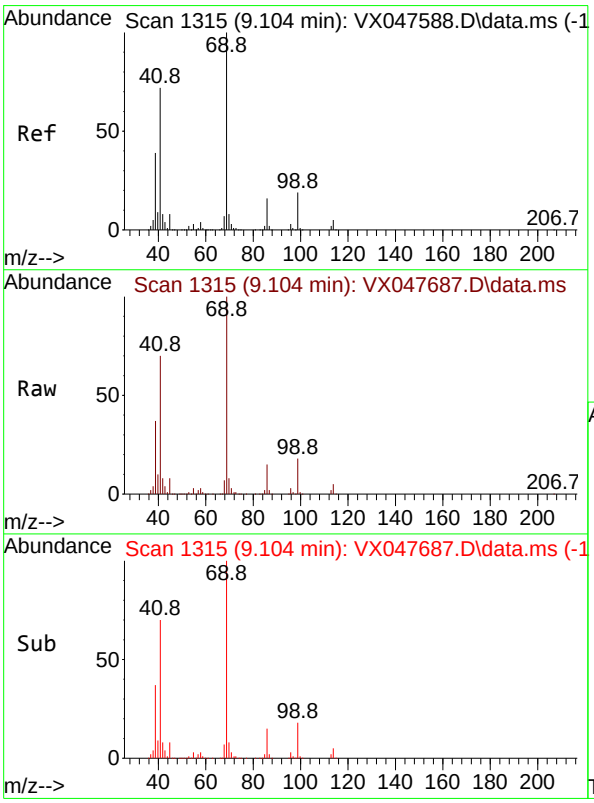
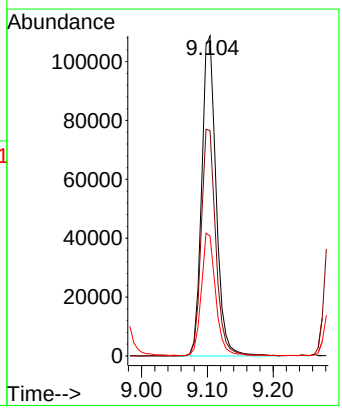
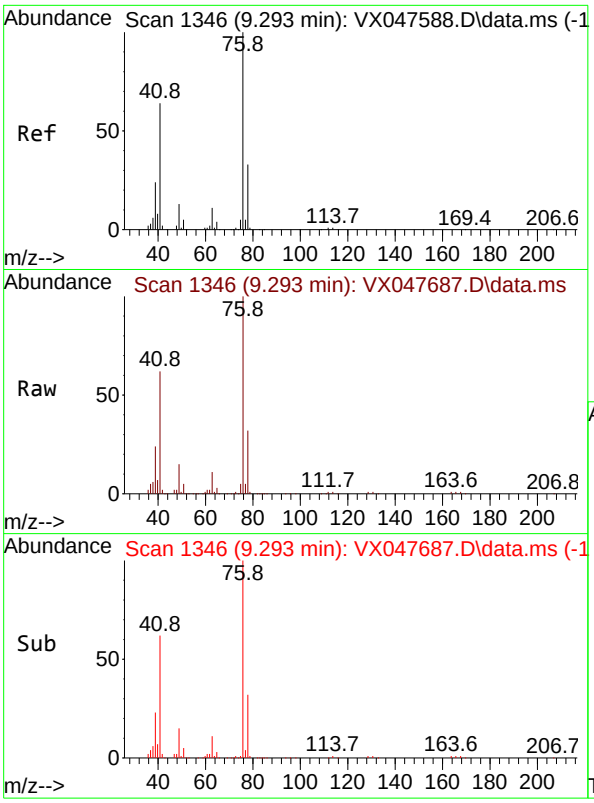


#56
Ethyl methacrylate
Concen: 53.586 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 69 Resp: 165642

Ion	Ratio	Lower	Upper
69	100		
41	71.6	58.6	87.8
39	38.5	31.5	47.3

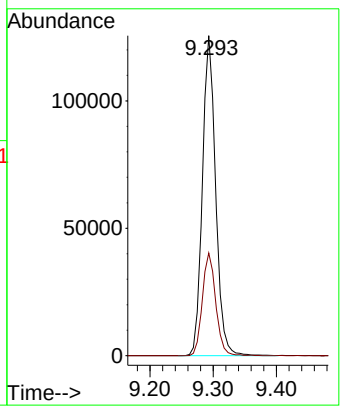




#57
1,3-Dichloropropane
Concen: 54.129 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 76 Resp: 18301

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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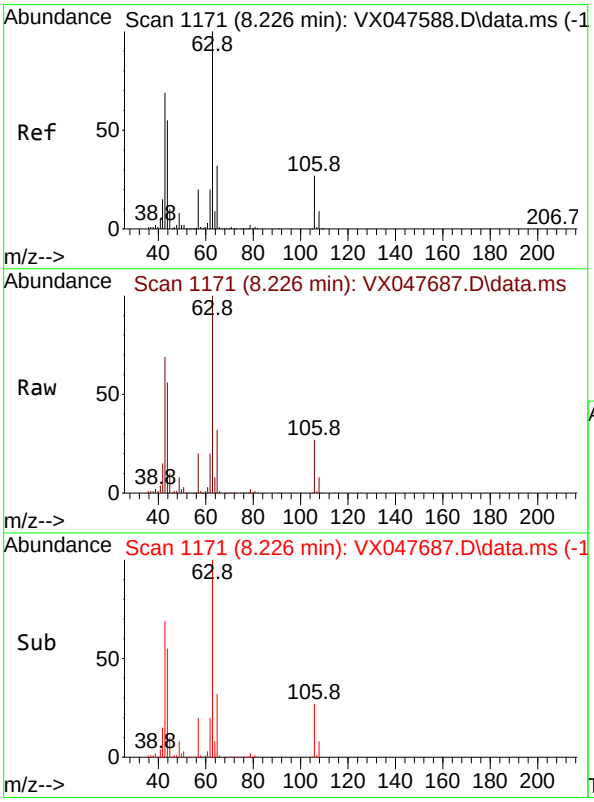
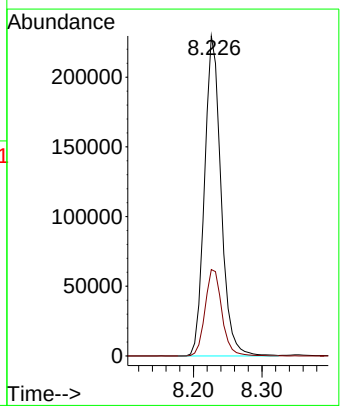
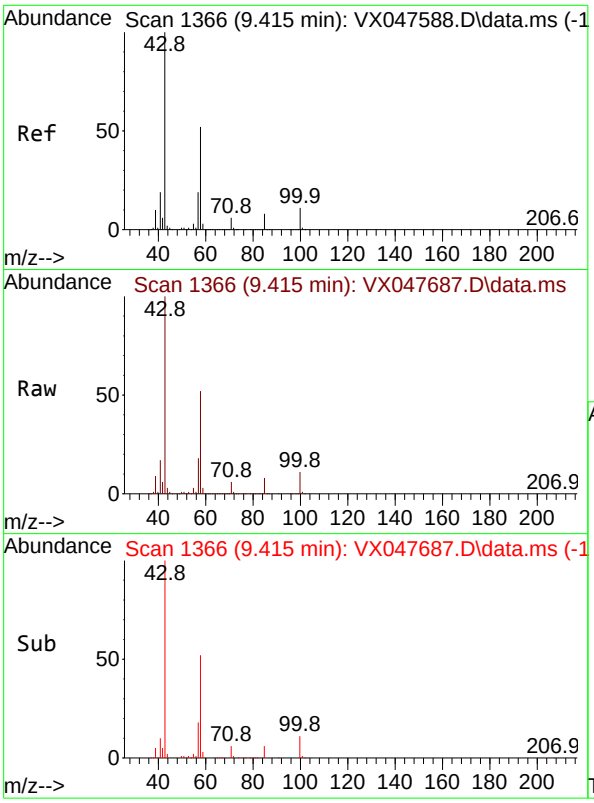


#58
2-Chloroethyl Vinyl ether
Concen: 259.650 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 63 Resp: 384468

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9





#59
2-Hexanone
Concen: 252.510 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 48166

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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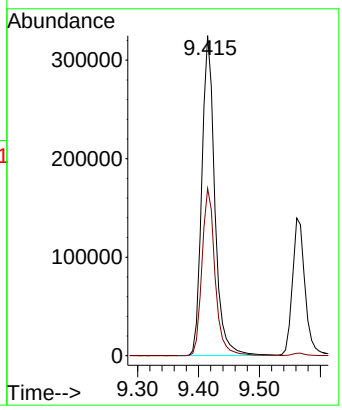
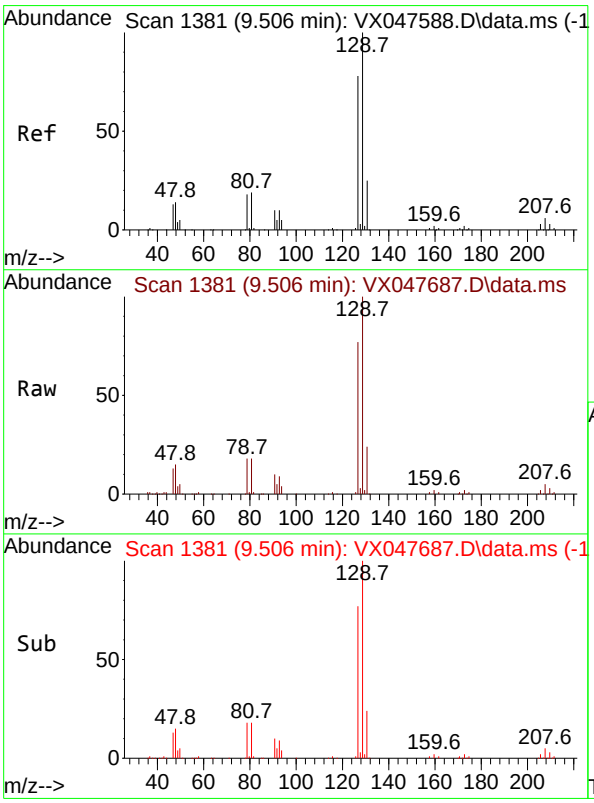
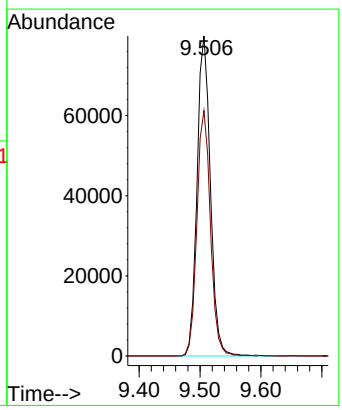


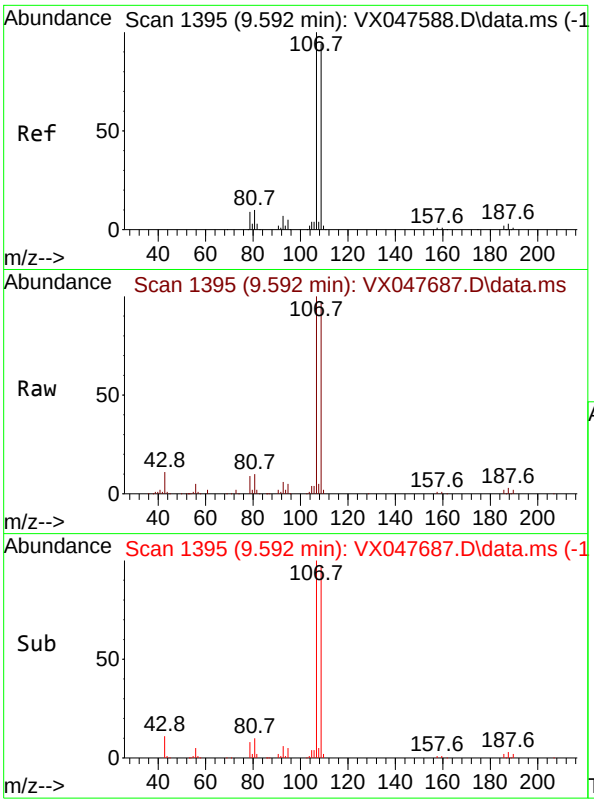


#60
Dibromochloromethane
Concen: 53.465 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:129 Resp: 121253

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.4	115.2





#61
1,2-Dibromoethane
Concen: 54.996 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:107 Resp: 11025

Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.3	112.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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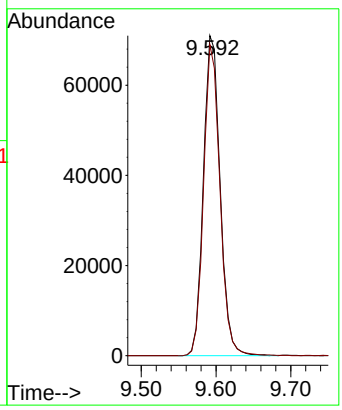
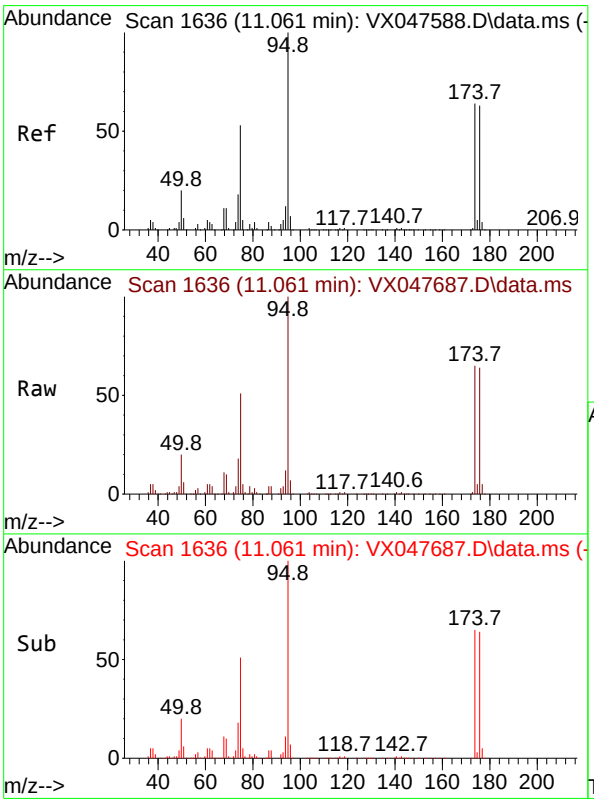
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

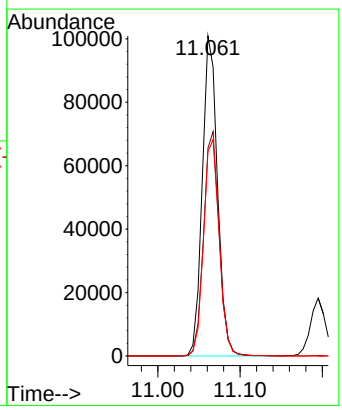


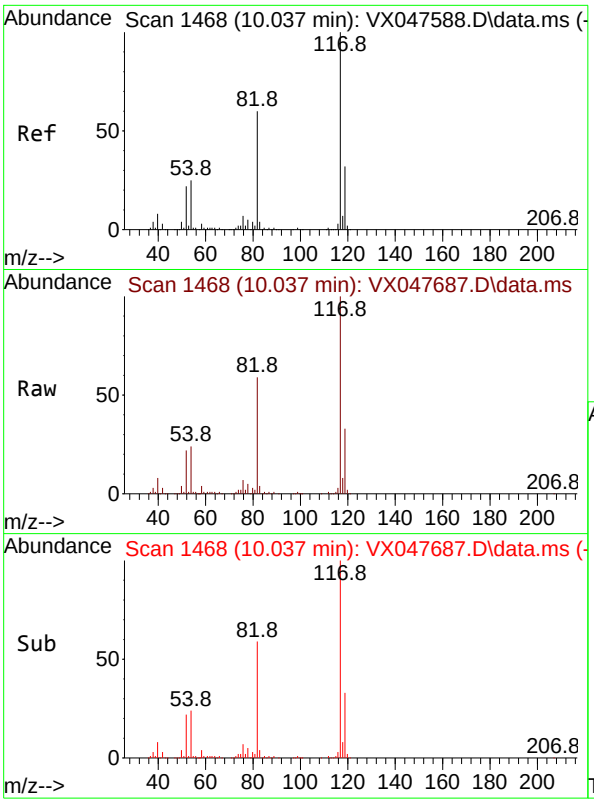


#62
4-Bromofluorobenzene
Concen: 52.822 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 95 Resp: 129494

Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	141.6
176	69.5	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:117 Resp: 24899

Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.8	71.6
119	32.7	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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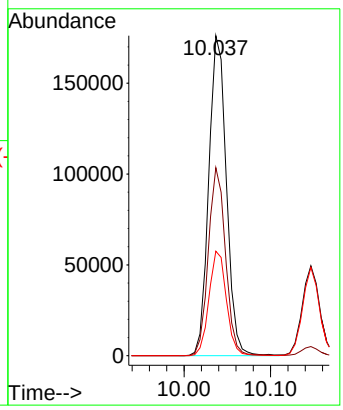
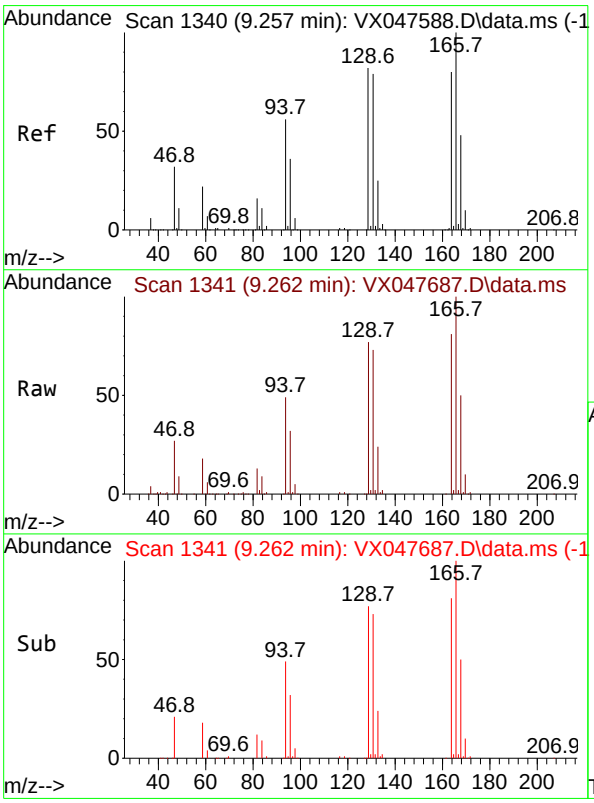
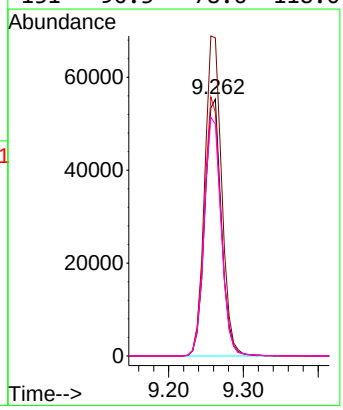


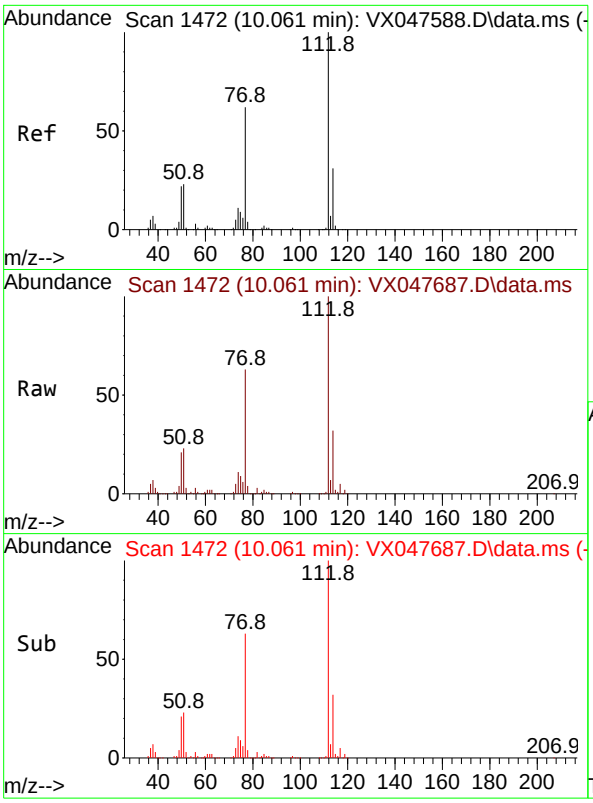


#64
Tetrachloroethene
Concen: 52.205 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:164 Resp: 84740

Ion	Ratio	Lower	Upper
164	100		
166	123.9	100.2	150.2
129	94.9	81.8	122.6
131	90.3	78.6	118.0

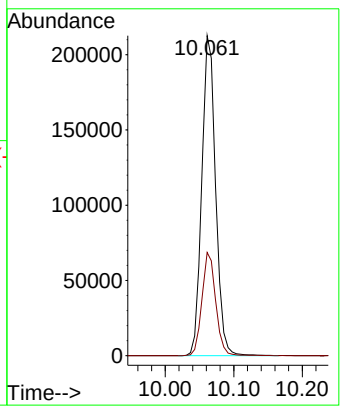




#65
Chlorobenzene
Concen: 52.793 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:112 Resp: 29863

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.1	37.7



Instrument :
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ClientSampleId :
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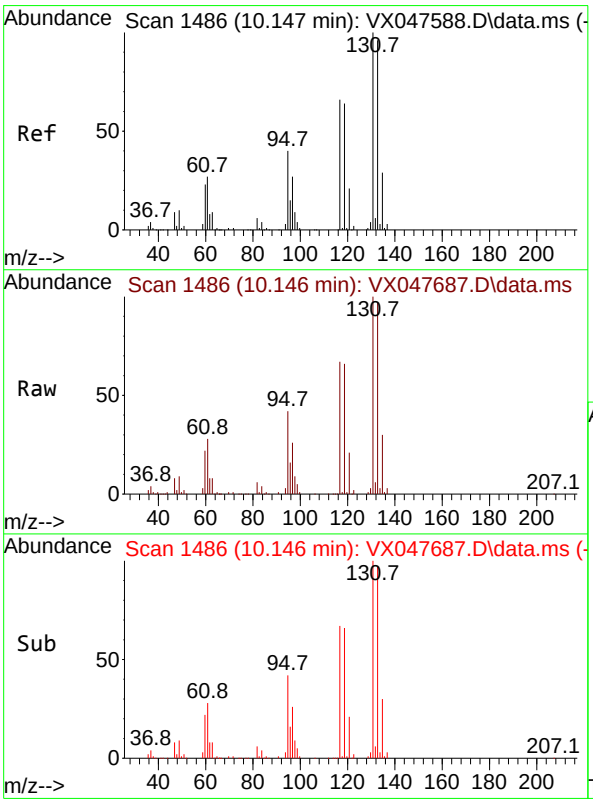
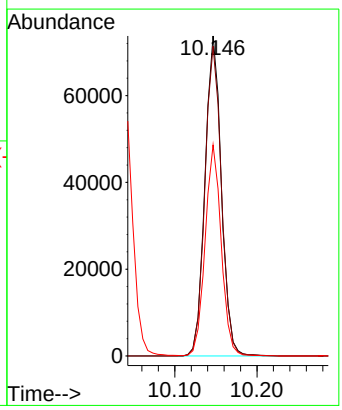
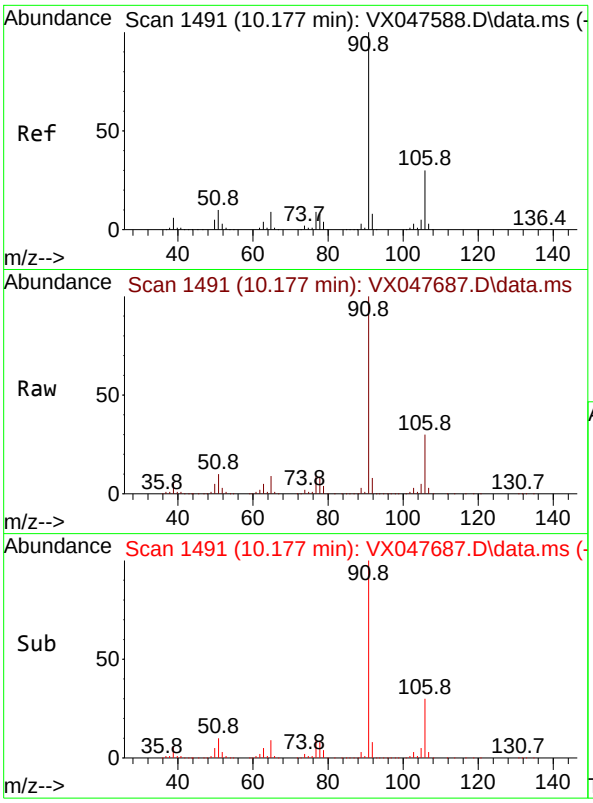


#66
1,1,1,2-Tetrachloroethane
Concen: 52.201 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:131 Resp: 101896

Ion	Ratio	Lower	Upper
131	100		
133	98.0	47.3	142.0
119	65.0	32.0	96.0

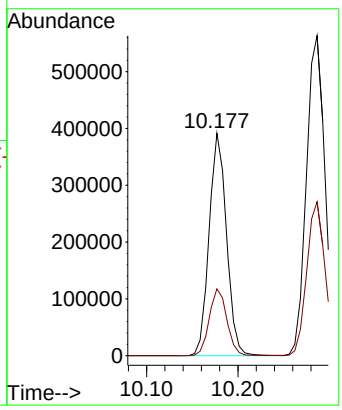




#67
Ethyl Benzene
Concen: 52.982 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 91 Resp: 51711

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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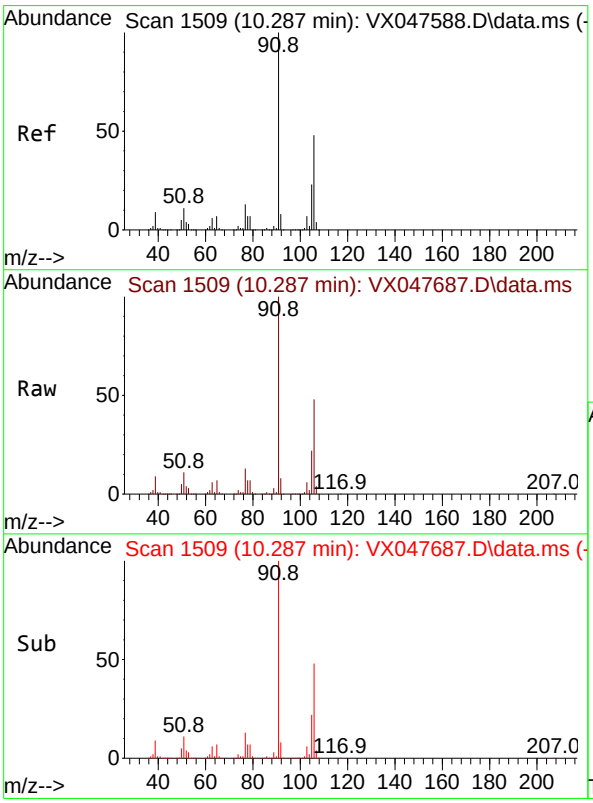
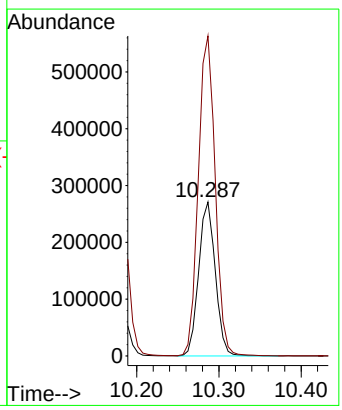
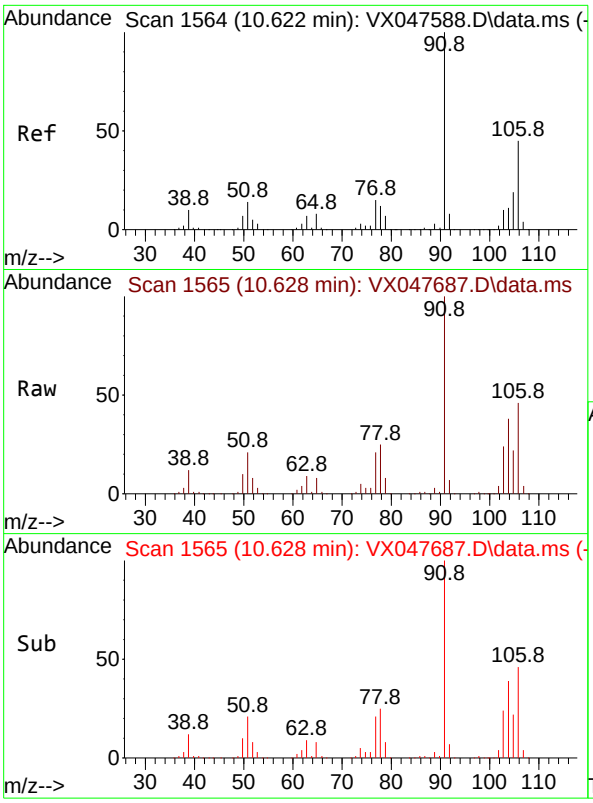


#68
m/p-Xylenes
Concen: 104.973 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:106 Resp: 381354

Ion	Ratio	Lower	Upper
106	100		
91	211.0	167.8	251.8

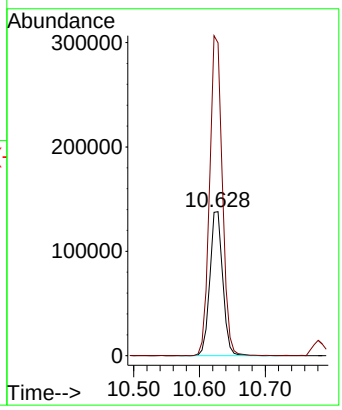




#69
o-Xylene
Concen: 53.332 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:106 Resp: 18739

Ion	Ratio	Lower	Upper
106	100		
91	220.5	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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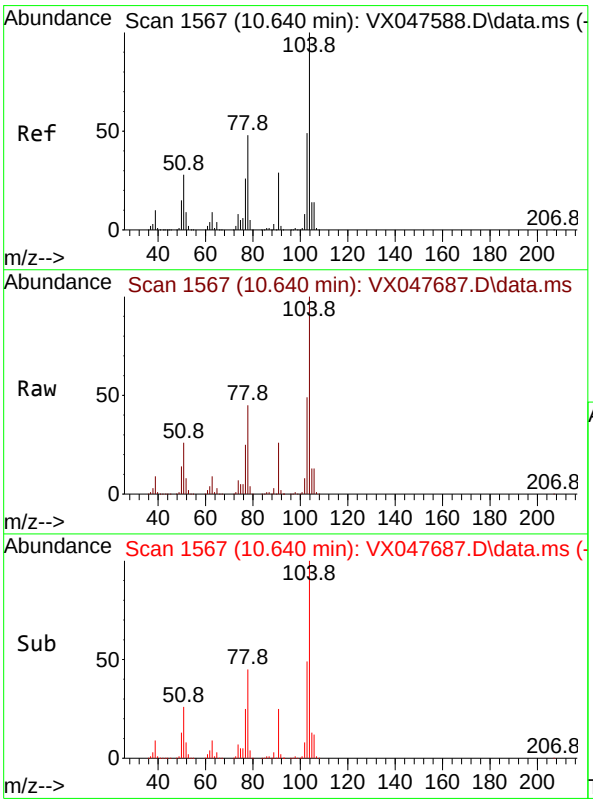
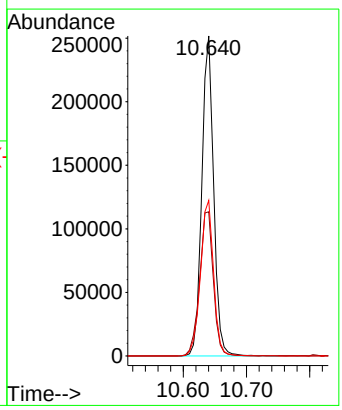
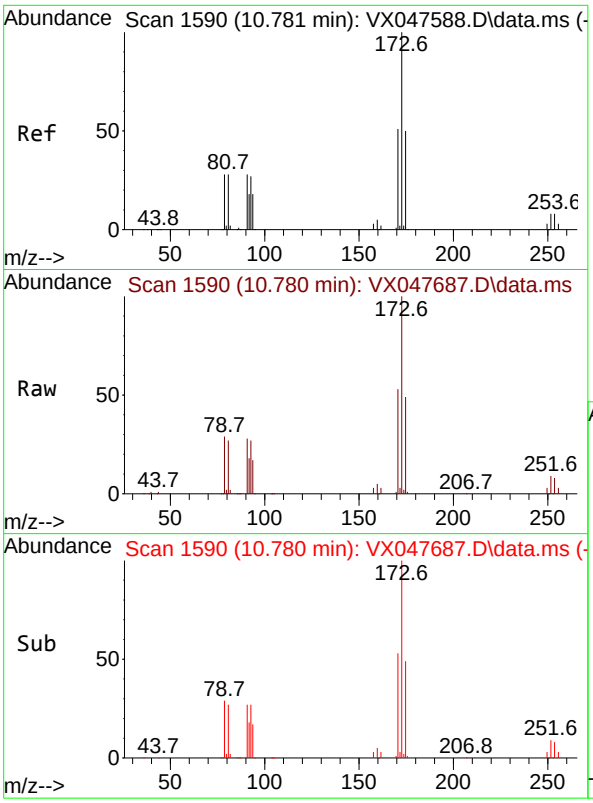


#70
Styrene
Concen: 53.259 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:104 Resp: 327913

Ion	Ratio	Lower	Upper
104	100		
78	52.5	43.1	64.7
103	53.9	43.1	64.7

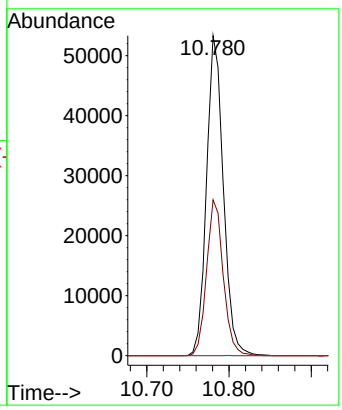




#71
Bromoform
Concen: 51.882 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:173 Resp: 7562

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.9	74.6
254	0.0	0.1	0.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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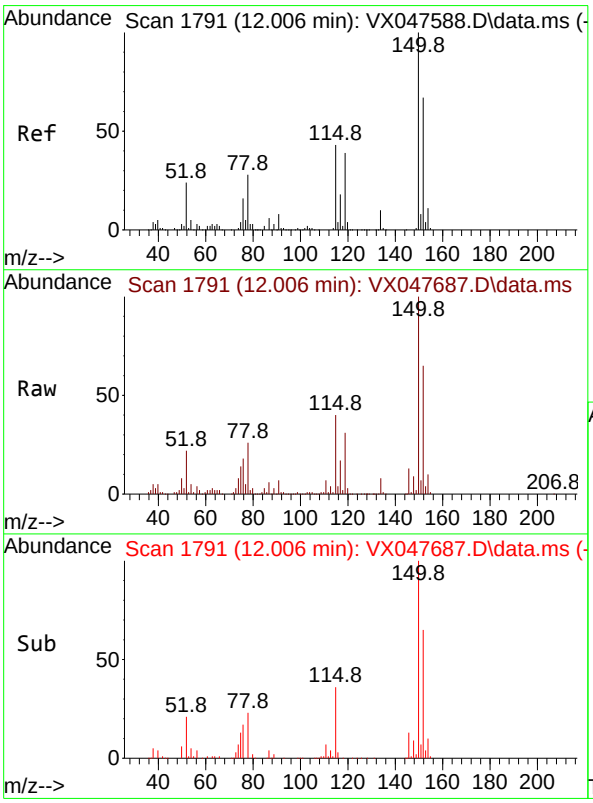
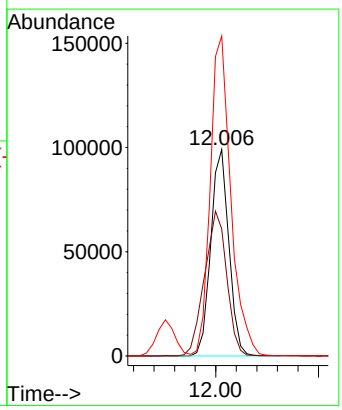
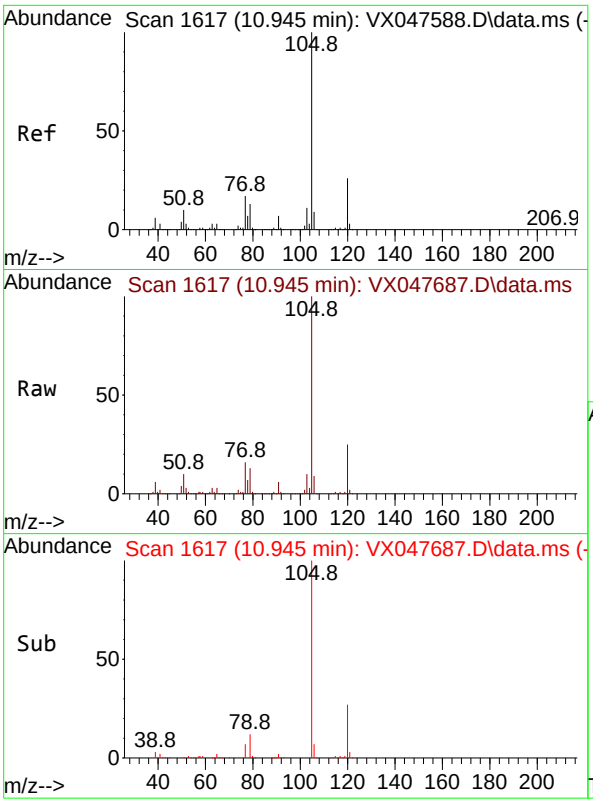


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:152 Resp: 120684

Ion	Ratio	Lower	Upper
152	100		
115	86.4	44.9	134.5
150	175.9	0.0	352.0

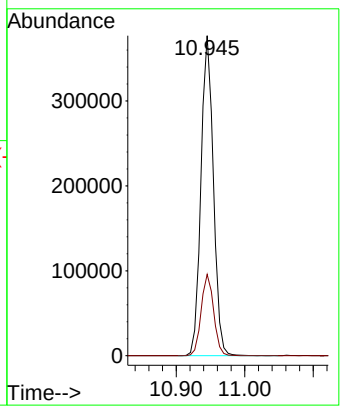




#73
Isopropylbenzene
Concen: 51.835 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:105 Resp: 47559

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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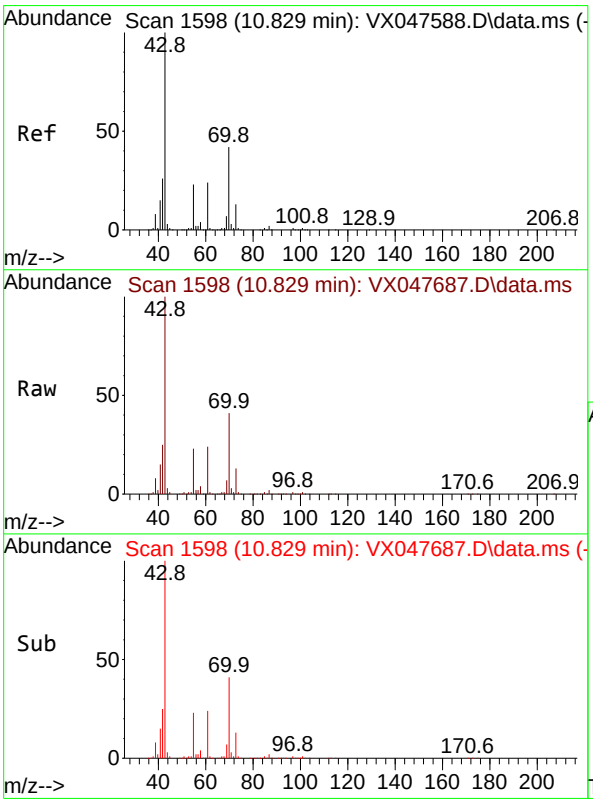
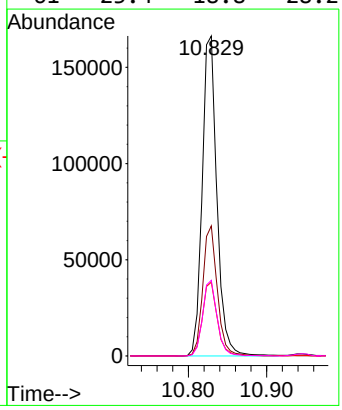
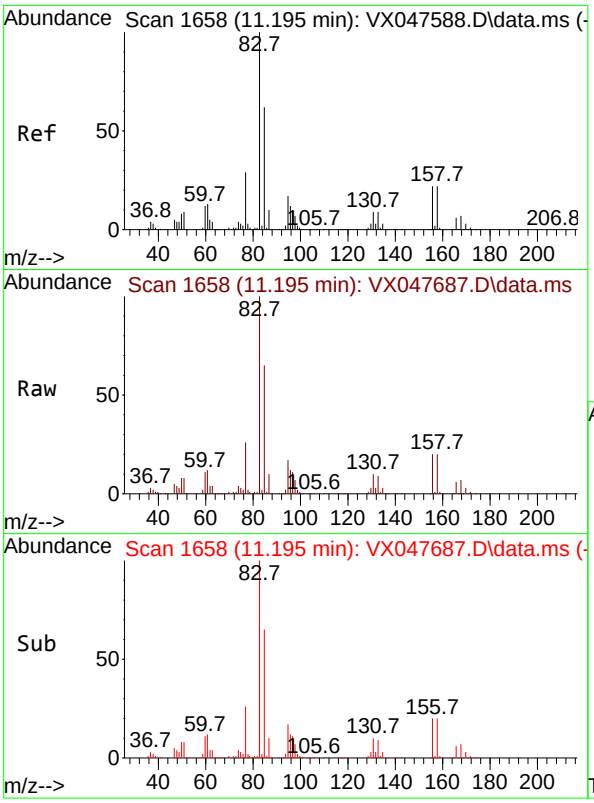


#74
N-amyl acetate
Concen: 51.785 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 216669

Ion	Ratio	Lower	Upper
43	100		
70	40.2	32.0	48.0
55	23.3	18.9	28.3
61	23.4	18.8	28.2

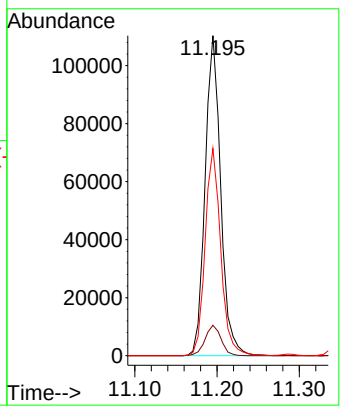




#75
1,1,2,2-Tetrachloroethane
Concen: 52.421 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 83 Resp: 14551

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	64.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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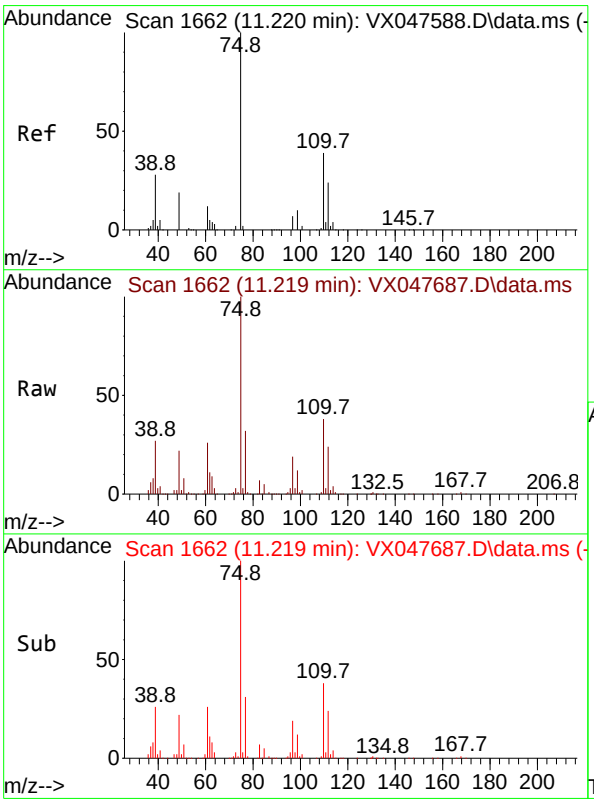
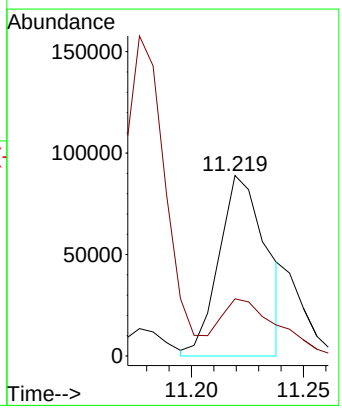
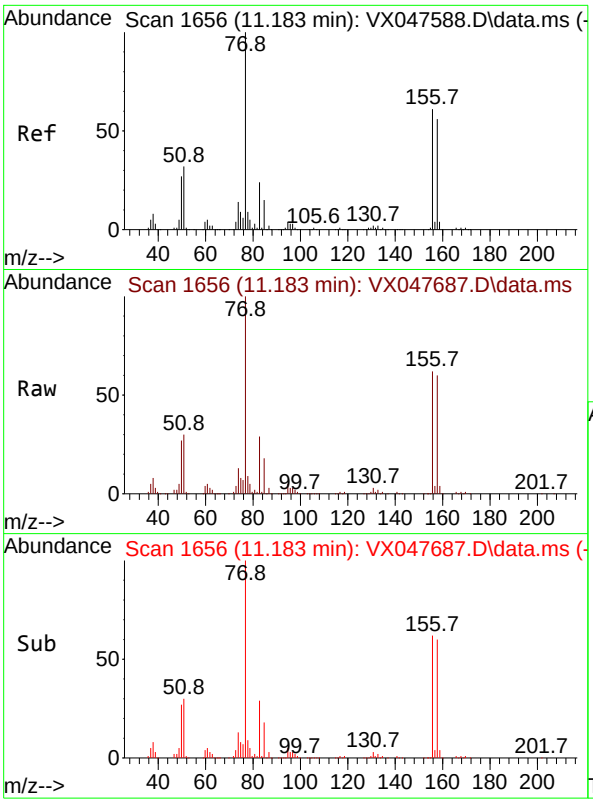


#76
1,2,3-Trichloropropane
Concen: 53.229 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 130064

Ion	Ratio	Lower	Upper
75	100		
77	37.6	18.8	56.4

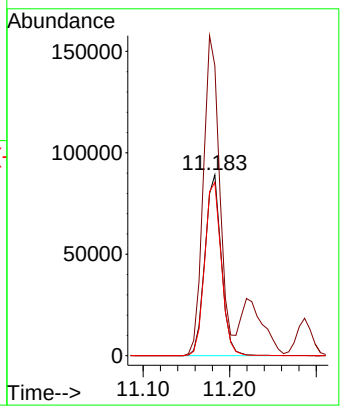




#77
Bromobenzene
Concen: 51.947 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:156 Resp: 11739

Ion	Ratio	Lower	Upper
156	100		
77	178.3	89.7	269.1
158	97.4	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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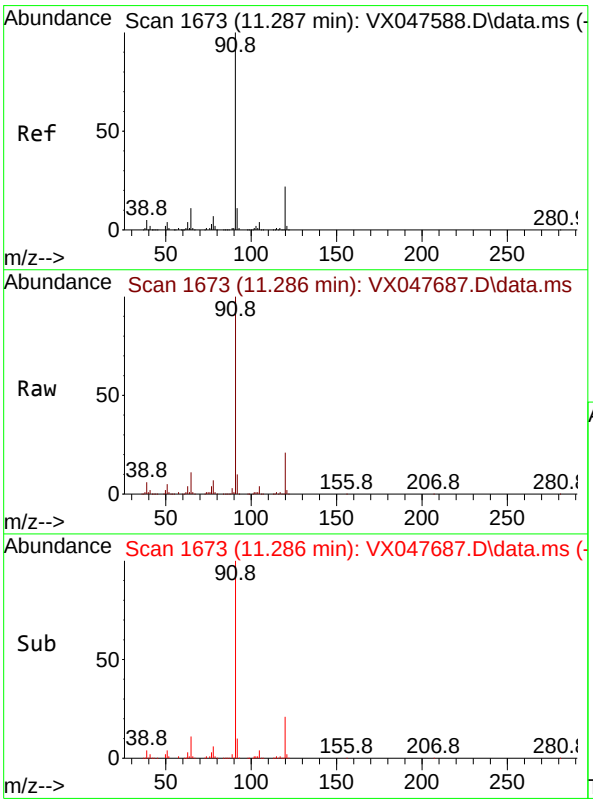
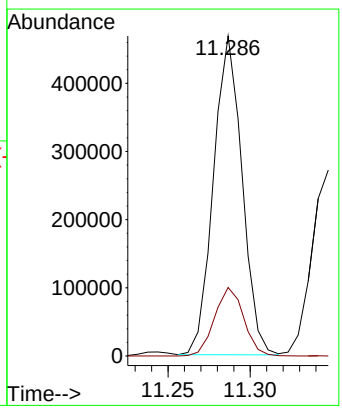
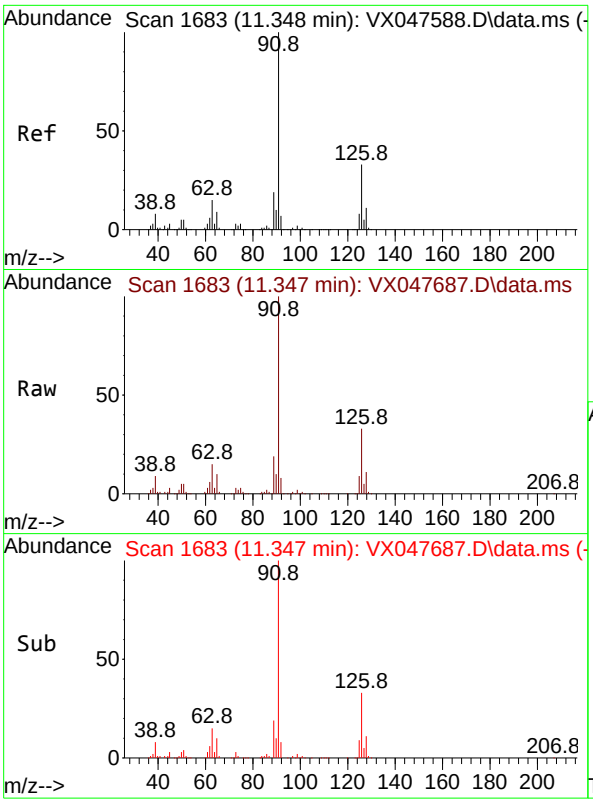


#78
n-propylbenzene
Concen: 52.147 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 91 Resp: 565595

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.1

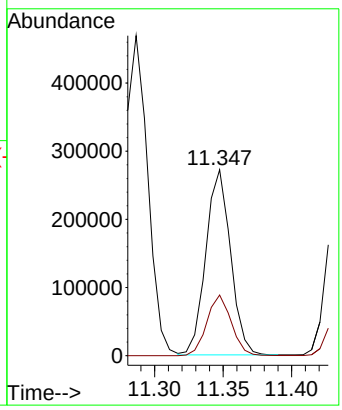




#79
2-Chlorotoluene
Concen: 51.361 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 91 Resp: 34119

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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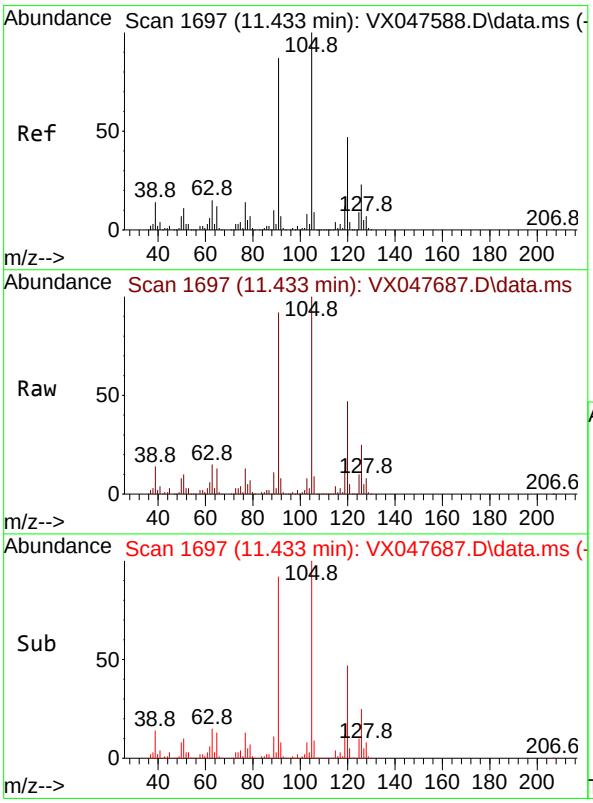
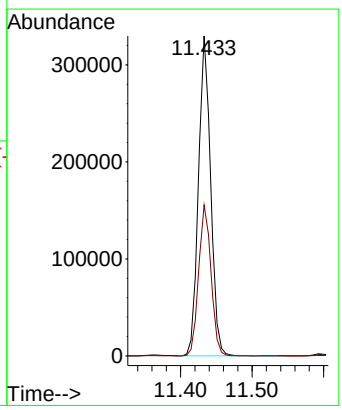
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

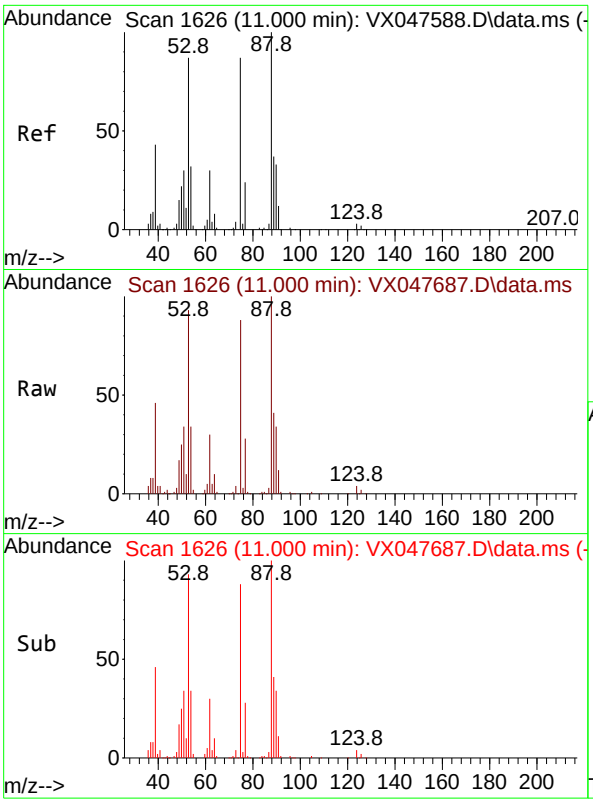


#80
1,3,5-Trimethylbenzene
Concen: 51.564 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:105 Resp: 388702

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 45.792 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 4387

Ion	Ratio	Lower	Upper
75	100		
53	108.1	83.4	125.2
89	47.0	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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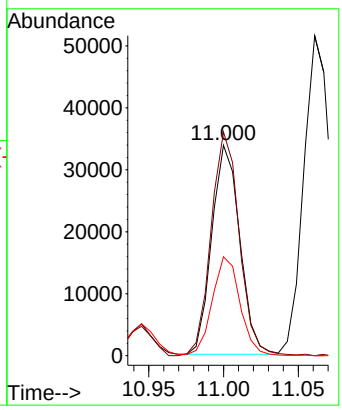
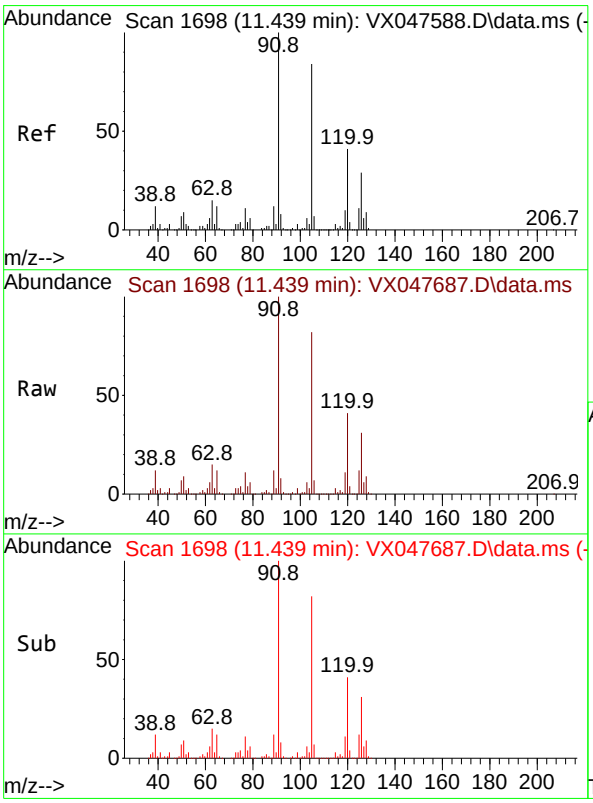
Supervised By :Mahesh Dadoda 09/22/2025

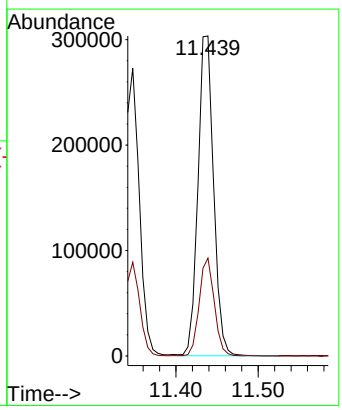


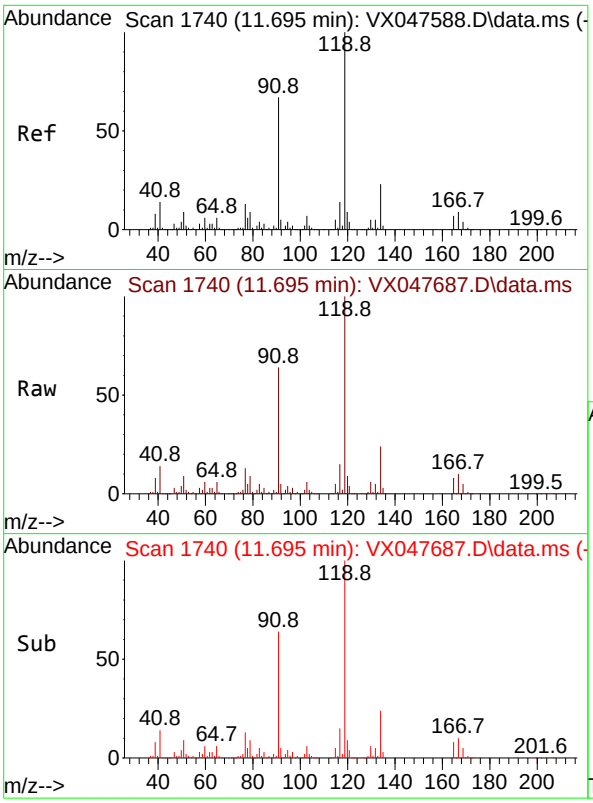


#82
4-Chlorotoluene
Concen: 51.132 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 91 Resp: 401172

Ion	Ratio	Lower	Upper
91	100		
126	29.5	14.2	42.6

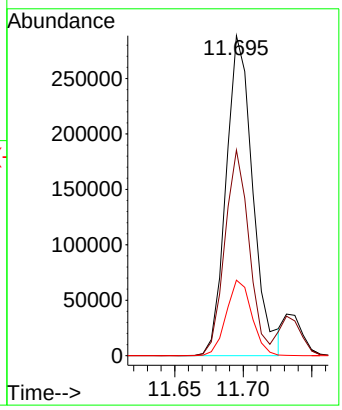




#83
tert-Butylbenzene
Concen: 50.797 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:119 Resp: 39198

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.6	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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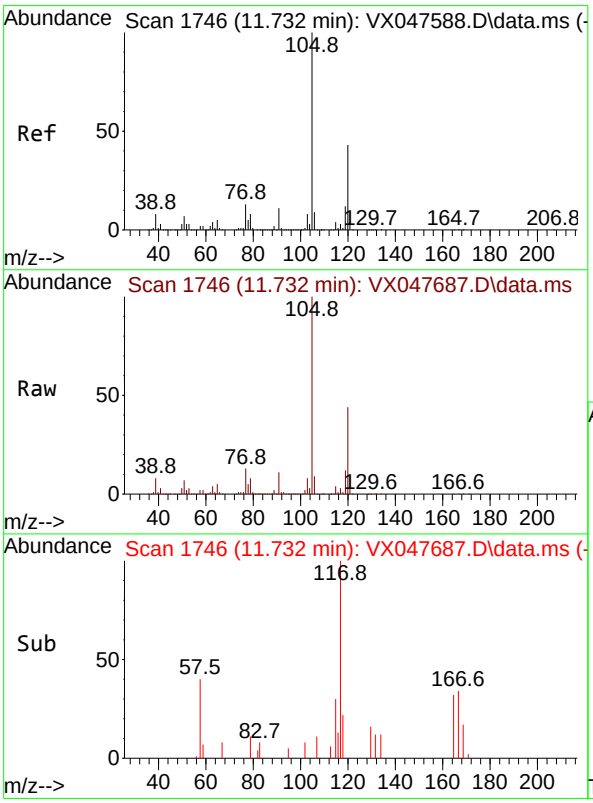
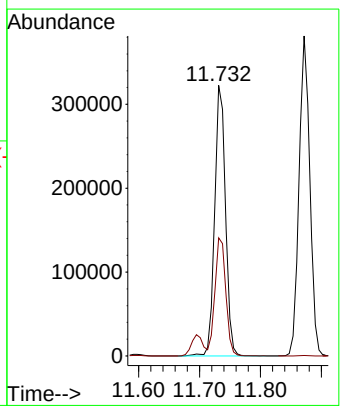
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

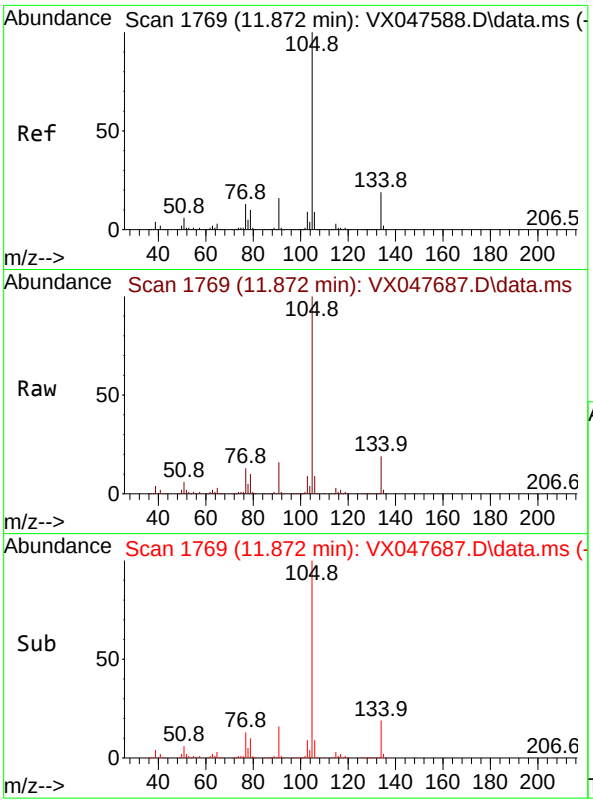


#84
1,2,4-Trimethylbenzene
Concen: 52.011 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:105 Resp: 397498

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1

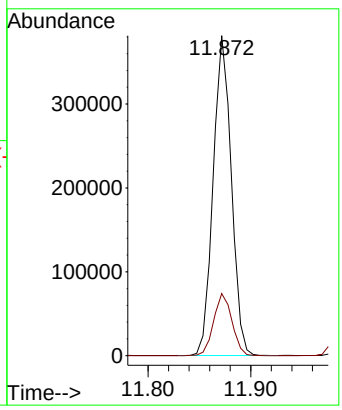




#85
sec-Butylbenzene
Concen: 51.055 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:105 Resp: 46796

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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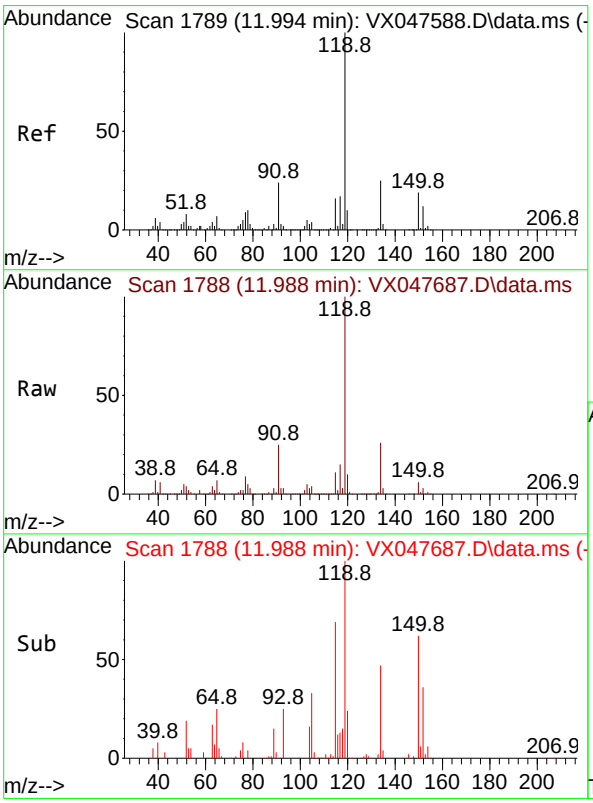
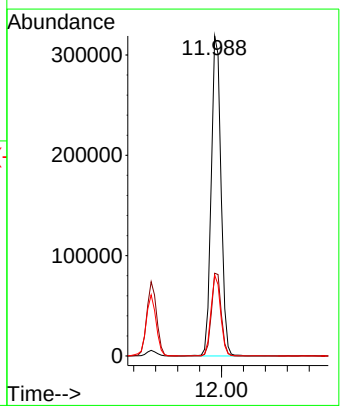
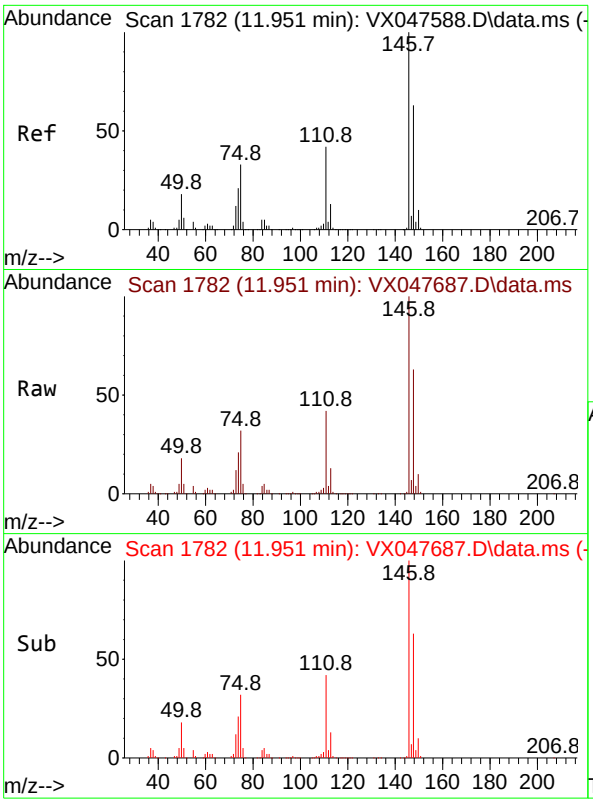


#86
p-Isopropyltoluene
Concen: 50.599 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:119 Resp: 392640

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	24.8	12.6	37.6

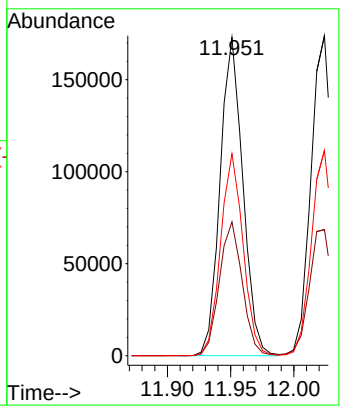




#87
1,3-Dichlorobenzene
Concen: 51.456 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:146 Resp: 21597

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.5	64.5
148	62.8	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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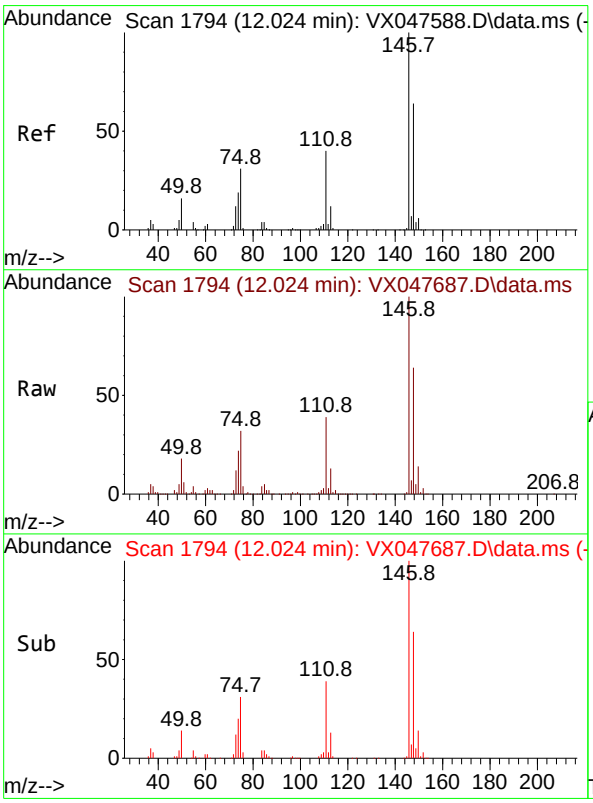
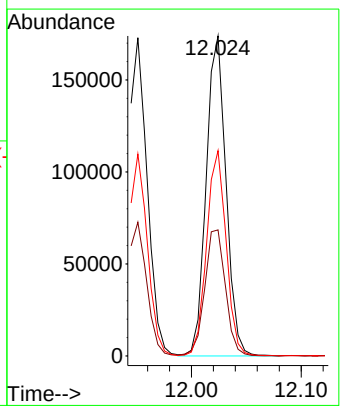
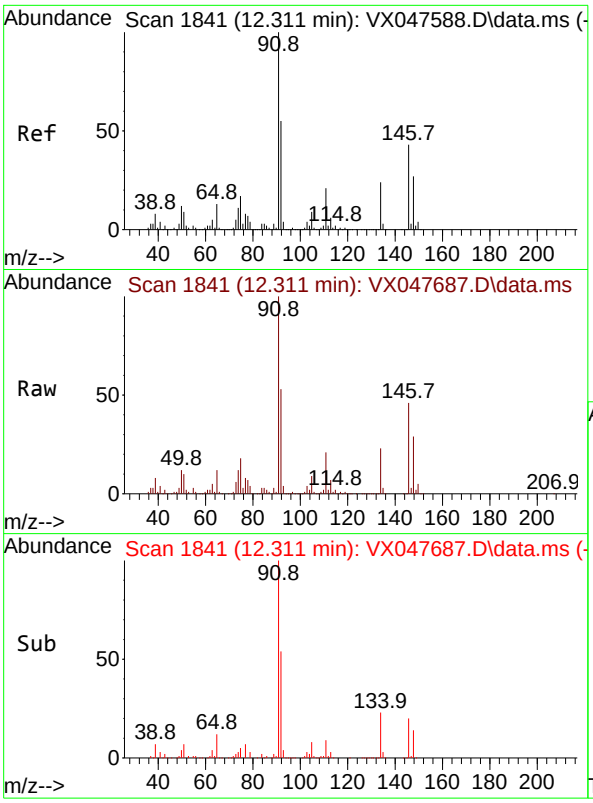


#88
1,4-Dichlorobenzene
Concen: 50.659 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:146 Resp: 218234

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.8	62.4
148	63.3	31.7	95.1





#89
n-Butylbenzene
Concen: 50.892 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 91 Resp: 365418

Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.6	82.7
134	25.0	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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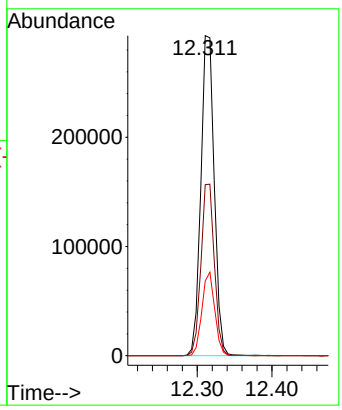
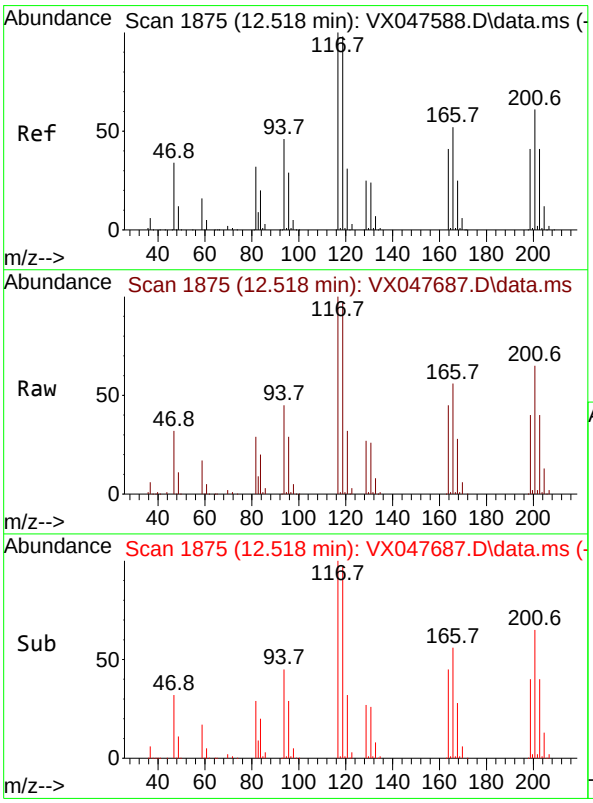
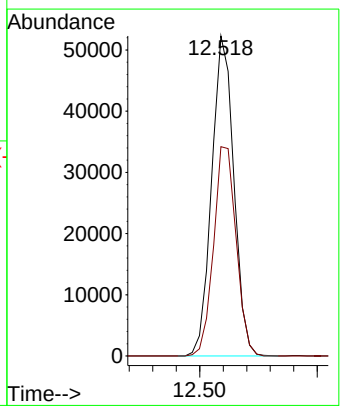


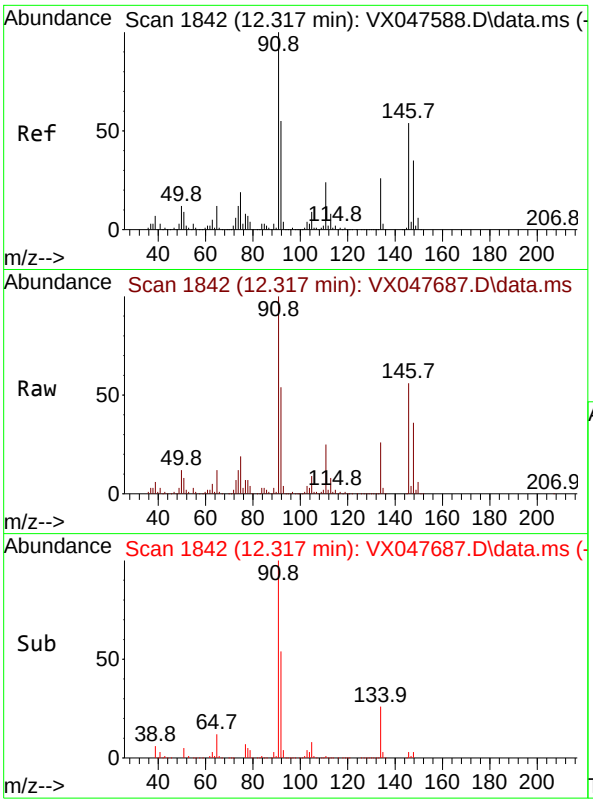


#90
Hexachloroethane
Concen: 50.250 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:117 Resp: 68460

Ion	Ratio	Lower	Upper
117	100		
201	66.7	34.2	102.5

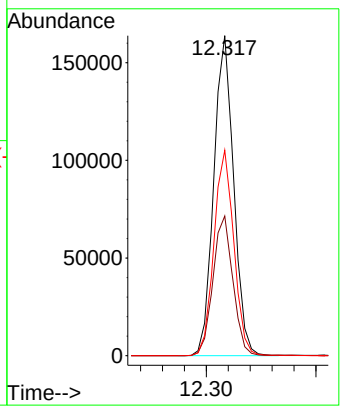




#91
1,2-Dichlorobenzene
Concen: 51.610 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:146 Resp: 20637

Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.2	66.6
148	64.4	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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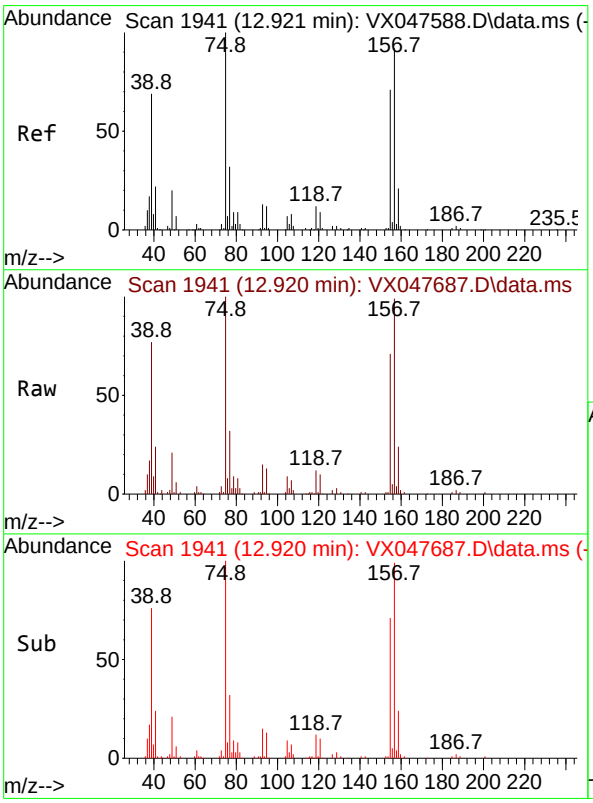
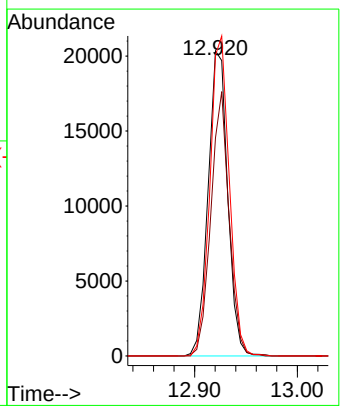
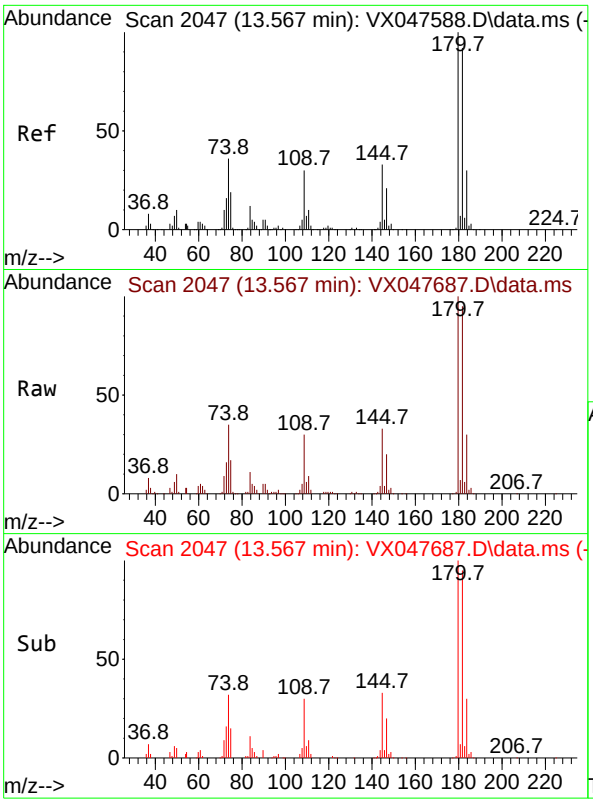


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.873 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 26906

Ion	Ratio	Lower	Upper
75	100		
155	80.6	37.7	113.1
157	104.0	49.8	149.4





#93
1,2,4-Trichlorobenzene
Concen: 50.815 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:180 Resp: 13206

Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.6	139.8
145	32.1	16.4	49.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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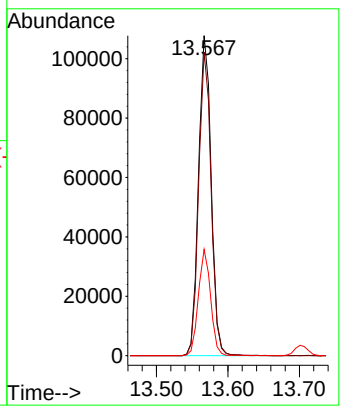
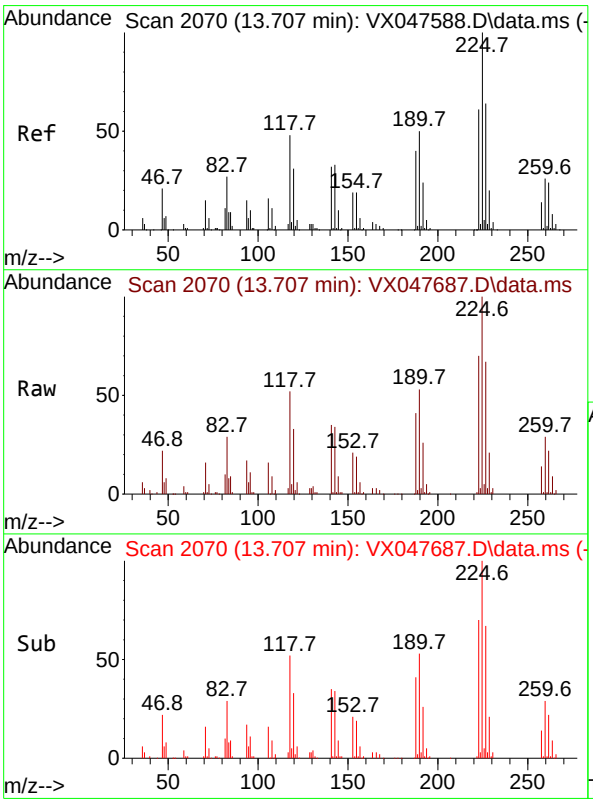
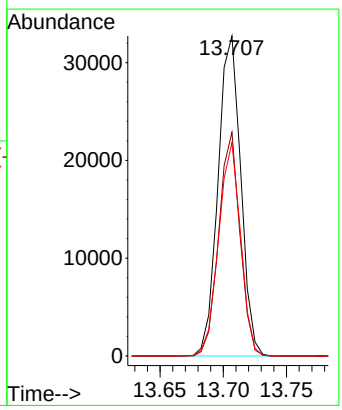


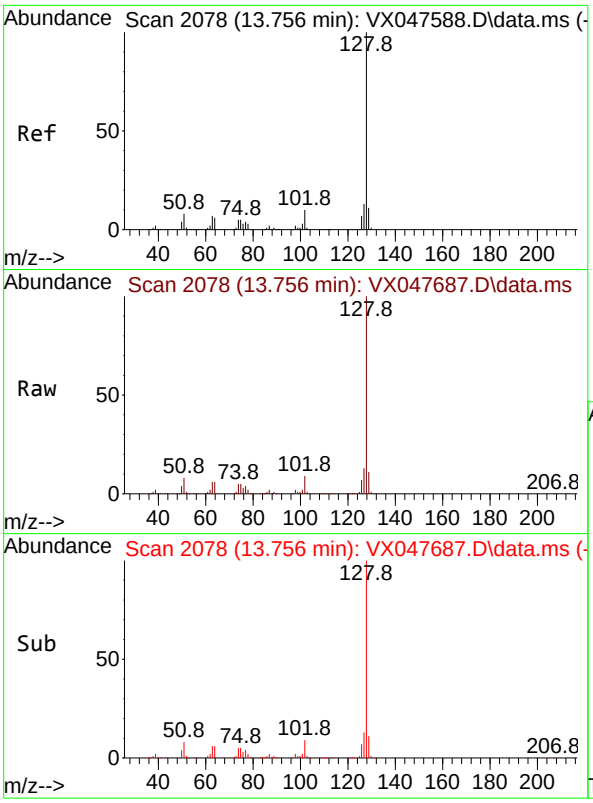


#94
Hexachlorobutadiene
Concen: 46.163 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:225 Resp: 40751

Ion	Ratio	Lower	Upper
225	100		
223	65.3	31.7	95.1
227	64.6	32.0	96.0

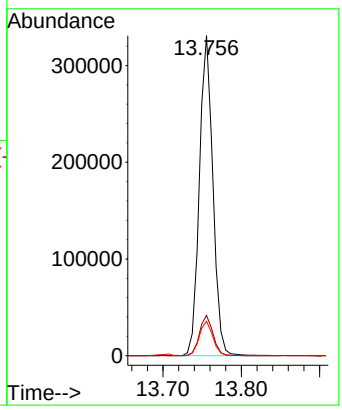




#95
Naphthalene
Concen: 49.995 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:128 Resp: 39564

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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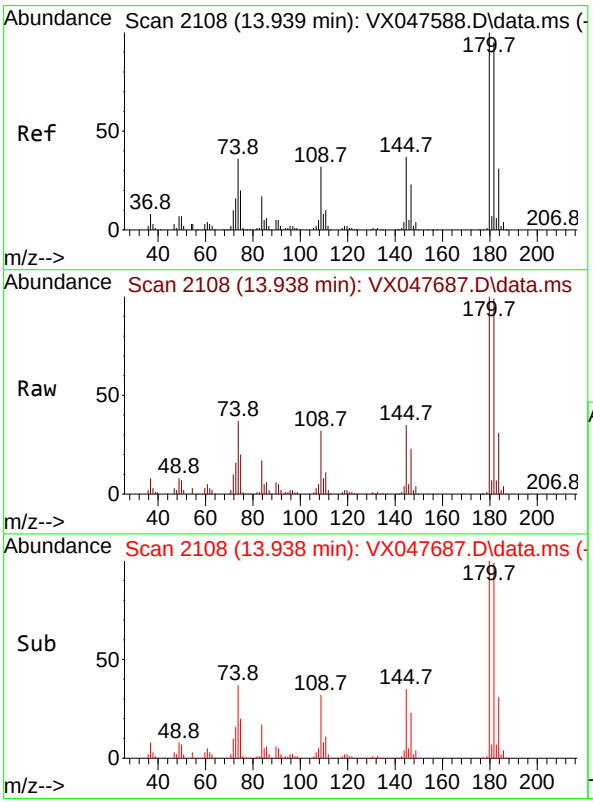
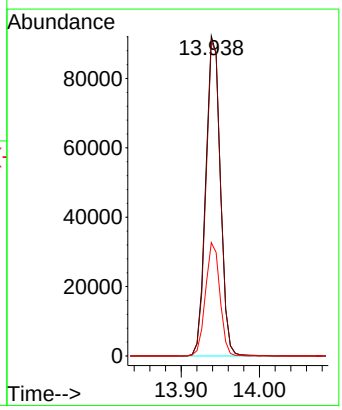


#96
1,2,3-Trichlorobenzene
Concen: 49.173 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:180 Resp: 118876

Ion	Ratio	Lower	Upper
180	100		
182	98.1	47.6	142.8
145	34.9	17.9	53.7



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Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	0.518	0.658	-27.0#	117	0.00
3	P	Chloromethane	0.680	0.802	-17.9	108	0.00
4	C	Vinyl Chloride	0.666	0.795	-19.4#	107	0.00
5	T	Bromomethane	0.422	0.503	-19.2	106	0.00
6	T	Chloroethane	0.445	0.502	-12.8	101	0.00
7	T	Trichlorofluoromethane	0.989	1.094	-10.6	98	0.00
8	T	Diethyl Ether	0.405	0.440	-8.6	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.646	-11.8	99	0.00
10	T	Methyl Iodide	0.902	0.951	-5.4	93	0.00
11	T	Tert butyl alcohol	0.089	0.075	15.7	75	0.00
12	CM	1,1-Dichloroethene	0.594	0.654	-10.1#	96	0.00
13	T	Acrolein	0.082	0.089	-8.5	97	0.00
14	T	Allyl chloride	1.226	1.266	-3.3	93	0.00
15	T	Acrylonitrile	0.328	0.358	-9.1	92	0.00
16	T	Acetone	0.346	0.275	20.5	77	0.00
17	T	Carbon Disulfide	1.626	1.876	-15.4	107	0.00
18	T	Methyl Acetate	0.770	0.823	-6.9	84	0.00
19	T	Methyl tert-butyl Ether	2.169	2.274	-4.8	90	0.00
20	T	Methylene Chloride	0.732	0.795	-8.6	97	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.708	-10.6	97	0.00
22	T	Diisopropyl ether	2.376	2.591	-9.0	93	0.00
23	T	Vinyl Acetate	1.901	2.088	-9.8	93	0.00
24	P	1,1-Dichloroethane	1.263	1.378	-9.1	95	0.00
25	T	2-Butanone	0.432	0.427	1.2	87	0.00
26	T	2,2-Dichloropropane	1.050	0.943	10.2	79	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.841	-7.4	93	0.00
28	T	Bromochloromethane	0.551	0.592	-7.4	91	0.00
29	T	Tetrahydrofuran	0.260	0.271	-4.2	88	0.00
30	C	Chloroform	1.276	1.389	-8.9#	94	0.00
31	T	Cyclohexane	1.052	1.123	-6.7	97	0.00
32	T	1,1,1-Trichloroethane	1.082	1.158	-7.0	91	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.848	-6.5	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
35	S	Dibromofluoromethane	0.335	0.360	-7.5	99	0.00
36	T	1,1-Dichloropropene	0.490	0.503	-2.7	94	0.00
37	T	Ethyl Acetate	0.525	0.530	-1.0	90	0.00
38	T	Carbon Tetrachloride	0.532	0.541	-1.7	91	0.00
39	T	Methylcyclohexane	0.556	0.582	-4.7	93	0.00
40	TM	Benzene	1.488	1.601	-7.6	95	0.00
41	T	Methacrylonitrile	0.271	0.287	-5.9	91	0.00
42	TM	1,2-Dichloroethane	0.566	0.588	-3.9	91	0.00
43	T	Isopropyl Acetate	0.860	0.885	-2.9	89	0.00
44	TM	Trichloroethene	0.360	0.404	-12.2	99	0.00
45	C	1,2-Dichloropropane	0.381	0.410	-7.6#	93	0.00
46	T	Dibromomethane	0.277	0.294	-6.1	92	0.00
47	T	Bromodichloromethane	0.572	0.610	-6.6	91	0.00
48	T	Methyl methacrylate	0.429	0.446	-4.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.005	-25.0	90	0.00
50	S	Toluene-d8	1.160	1.237	-6.6	98	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.505	-5.9	89	0.00
52	CM	Toluene	0.917	0.979	-6.8#	94	0.00
53	T	t-1,3-Dichloropropene	0.584	0.602	-3.1	88	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.647	-3.7	90	0.00
55	T	1,1,2-Trichloroethane	0.354	0.377	-6.5	93	0.00
56	T	Ethyl methacrylate	0.555	0.595	-7.2	90	0.00
57	T	1,3-Dichloropropane	0.607	0.657	-8.2	93	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.276	-21.6	92	0.00
59	T	2-Hexanone	0.343	0.346	-0.9	87	0.00
60	T	Dibromochloromethane	0.407	0.436	-7.1	91	0.00
61	T	1,2-Dibromoethane	0.360	0.396	-10.0	95	0.00
62	S	4-Bromofluorobenzene	0.440	0.465	-5.7	99	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64	T	Tetrachloroethene	0.326	0.340	-4.3	96	0.00
65	PM	Chlorobenzene	1.136	1.199	-5.5	94	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.409	-4.3	91	0.00
67	C	Ethyl Benzene	1.960	2.077	-6.0#	94	0.00
68	T	m/p-Xylenes	0.729	0.766	-5.1	92	0.00
69	T	o-Xylene	0.706	0.753	-6.7	93	0.00
70	T	Styrene	1.236	1.317	-6.6	94	0.00
71	P	Bromoform	0.293	0.304	-3.8	90	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
73	T	Isopropylbenzene	3.801	3.941	-3.7	92	0.00
74	T	N-amyl acetate	1.733	1.795	-3.6	91	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.206	-4.9	93	0.00
76	T	1,2,3-Trichloropropane	1.012	1.078	-6.5	90	0.00
77	T	Bromobenzene	0.936	0.973	-4.0	93	0.00
78	T	n-propylbenzene	4.494	4.687	-4.3	92	0.00
79	T	2-Chlorotoluene	2.752	2.827	-2.7	92	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.221	-3.1	91	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.364	8.3	83	0.00
82	T	4-Chlorotoluene	3.251	3.324	-2.2	91	0.00
83	T	tert-Butylbenzene	3.197	3.248	-1.6	91	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.294	-4.0	93	0.00
85	T	sec-Butylbenzene	3.797	3.878	-2.1	91	0.00
86	T	p-Isopropyltoluene	3.215	3.253	-1.2	90	0.00
87	T	1,3-Dichlorobenzene	1.739	1.790	-2.9	93	0.00
88	T	1,4-Dichlorobenzene	1.785	1.808	-1.3	93	0.00
89	T	n-Butylbenzene	2.975	3.028	-1.8	91	0.00
90	T	Hexachloroethane	0.564	0.567	-0.5	90	0.00
91	T	1,2-Dichlorobenzene	1.657	1.710	-3.2	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.223	4.3	83	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.094	-1.6	89	0.00
94	T	Hexachlorobutadiene	0.366	0.338	7.7	83	0.00
95	T	Naphthalene	3.279	3.278	0.0	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.985	1.7	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	50.000	63.588	-27.2#	117	0.00
3	P	Chloromethane	50.000	58.927	-17.9	108	0.00
4	C	Vinyl Chloride	50.000	59.703	-19.4#	107	0.00
5	T	Bromomethane	50.000	59.499	-19.0	106	0.00
6	T	Chloroethane	50.000	56.391	-12.8	101	0.00
7	T	Trichlorofluoromethane	50.000	55.285	-10.6	98	0.00
8	T	Diethyl Ether	50.000	54.429	-8.9	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	55.814	-11.6	99	0.00
10	T	Methyl Iodide	50.000	52.731	-5.5	93	0.00
11	T	Tert butyl alcohol	250.000	212.661	14.9	75	0.00
12	CM	1,1-Dichloroethene	50.000	55.015	-10.0#	96	0.00
13	T	Acrolein	250.000	271.404	-8.6	97	0.00
14	T	Allyl chloride	50.000	51.642	-3.3	93	0.00
15	T	Acrylonitrile	250.000	272.421	-9.0	92	0.00
16	T	Acetone	250.000	198.313	20.7	77	0.00
17	T	Carbon Disulfide	50.000	57.679	-15.4	107	0.00
18	T	Methyl Acetate	50.000	53.432	-6.9	84	0.00
19	T	Methyl tert-butyl Ether	50.000	52.436	-4.9	90	0.00
20	T	Methylene Chloride	50.000	54.250	-8.5	97	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.385	-10.8	97	0.00
22	T	Diisopropyl ether	50.000	54.541	-9.1	93	0.00
23	T	Vinyl Acetate	250.000	274.498	-9.8	93	0.00
24	P	1,1-Dichloroethane	50.000	54.560	-9.1	95	0.00
25	T	2-Butanone	250.000	247.197	1.1	87	0.00
26	T	2,2-Dichloropropane	50.000	44.928	10.1	79	0.00
27	T	cis-1,2-Dichloroethene	50.000	53.677	-7.4	93	0.00
28	T	Bromochloromethane	50.000	53.668	-7.3	91	0.00
29	T	Tetrahydrofuran	250.000	260.441	-4.2	88	0.00
30	C	Chloroform	50.000	54.443	-8.9#	94	0.00
31	T	Cyclohexane	50.000	53.387	-6.8	97	0.00
32	T	1,1,1-Trichloroethane	50.000	53.474	-6.9	91	0.00
33	S	1,2-Dichloroethane-d4	50.000	53.282	-6.6	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	91	0.00
35	S	Dibromofluoromethane	50.000	53.721	-7.4	99	0.00
36	T	1,1-Dichloropropene	50.000	51.362	-2.7	94	0.00
37	T	Ethyl Acetate	50.000	50.499	-1.0	90	0.00
38	T	Carbon Tetrachloride	50.000	50.831	-1.7	91	0.00
39	T	Methylcyclohexane	50.000	52.363	-4.7	93	0.00
40	TM	Benzene	50.000	53.802	-7.6	95	0.00
41	T	Methacrylonitrile	50.000	53.000	-6.0	91	0.00
42	TM	1,2-Dichloroethane	50.000	51.951	-3.9	91	0.00
43	T	Isopropyl Acetate	50.000	51.410	-2.8	89	0.00
44	TM	Trichloroethene	50.000	56.204	-12.4	99	0.00
45	C	1,2-Dichloropropane	50.000	53.755	-7.5#	93	0.00
46	T	Dibromomethane	50.000	53.014	-6.0	92	0.00
47	T	Bromodichloromethane	50.000	53.260	-6.5	91	0.00
48	T	Methyl methacrylate	50.000	52.004	-4.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1102.850	-10.3	90	0.00
50	S	Toluene-d8	50.000	53.308	-6.6	98	0.00
51	T	4-Methyl-2-Pentanone	250.000	264.517	-5.8	89	0.00
52	CM	Toluene	50.000	53.368	-6.7#	94	0.00
53	T	t-1,3-Dichloropropene	50.000	51.527	-3.1	88	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.815	-3.6	90	0.00
55	T	1,1,2-Trichloroethane	50.000	53.322	-6.6	93	0.00
56	T	Ethyl methacrylate	50.000	53.586	-7.2	90	0.00
57	T	1,3-Dichloropropane	50.000	54.129	-8.3	93	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.650	-3.9	92	0.00
59	T	2-Hexanone	250.000	252.510	-1.0	87	0.00
60	T	Dibromochloromethane	50.000	53.465	-6.9	91	0.00
61	T	1,2-Dibromoethane	50.000	54.996	-10.0	95	0.00
62	S	4-Bromofluorobenzene	50.000	52.822	-5.6	99	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64	T	Tetrachloroethene	50.000	52.205	-4.4	96	0.00
65	PM	Chlorobenzene	50.000	52.793	-5.6	94	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.201	-4.4	91	0.00
67	C	Ethyl Benzene	50.000	52.982	-6.0#	94	0.00
68	T	m/p-Xylenes	100.000	104.973	-5.0	92	0.00
69	T	o-Xylene	50.000	53.332	-6.7	93	0.00
70	T	Styrene	50.000	53.259	-6.5	94	0.00
71	P	Bromoform	50.000	51.882	-3.8	90	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	94	0.00
73	T	Isopropylbenzene	50.000	51.835	-3.7	92	0.00
74	T	N-amyl acetate	50.000	51.785	-3.6	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.421	-4.8	93	0.00
76	T	1,2,3-Trichloropropane	50.000	53.229	-6.5	90	0.00
77	T	Bromobenzene	50.000	51.947	-3.9	93	0.00
78	T	n-propylbenzene	50.000	52.147	-4.3	92	0.00
79	T	2-Chlorotoluene	50.000	51.361	-2.7	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.564	-3.1	91	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.792	8.4	83	0.00
82	T	4-Chlorotoluene	50.000	51.132	-2.3	91	0.00
83	T	tert-Butylbenzene	50.000	50.797	-1.6	91	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.011	-4.0	93	0.00
85	T	sec-Butylbenzene	50.000	51.055	-2.1	91	0.00
86	T	p-Isopropyltoluene	50.000	50.599	-1.2	90	0.00
87	T	1,3-Dichlorobenzene	50.000	51.456	-2.9	93	0.00
88	T	1,4-Dichlorobenzene	50.000	50.659	-1.3	93	0.00
89	T	n-Butylbenzene	50.000	50.892	-1.8	91	0.00
90	T	Hexachloroethane	50.000	50.250	-0.5	90	0.00
91	T	1,2-Dichlorobenzene	50.000	51.610	-3.2	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.873	4.3	83	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.815	-1.6	89	0.00
94	T	Hexachlorobutadiene	50.000	46.163	7.7	83	0.00
95	T	Naphthalene	50.000	49.995	0.0	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.173	1.7	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/22/2025 09:38
Lab File ID:	VX047689.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.702		35.52	20
Chloromethane	0.680	0.830	0.1	22.06	20
Vinyl Chloride	0.666	0.828		24.32	20
Bromomethane	0.422	0.543		28.67	20
Chloroethane	0.445	0.512		15.06	20
Trichlorofluoromethane	0.989	1.151		16.38	20
1,1,2-Trichlorotrifluoroethane	0.578	0.657		13.67	20
1,1-Dichloroethene	0.594	0.675		13.64	20
Acetone	0.346	0.322		-6.94	20
Carbon Disulfide	1.626	1.959		20.48	20
Methyl tert-butyl Ether	2.169	2.245		3.5	20
Methyl Acetate	0.770	0.757		-1.69	20
Methylene Chloride	0.732	0.778		6.28	20
trans-1,2-Dichloroethene	0.640	0.704		10	20
1,1-Dichloroethane	1.263	1.365	0.1	8.08	20
Cyclohexane	1.052	1.098		4.37	20
2-Butanone	0.432	0.403		-6.71	20
Carbon Tetrachloride	0.532	0.547		2.82	20
cis-1,2-Dichloroethene	0.783	0.839		7.15	20
Bromochloromethane	0.551	0.557		1.09	20
Chloroform	1.276	1.336		4.7	20
1,1,1-Trichloroethane	1.082	1.130		4.44	20
Methylcyclohexane	0.556	0.585		5.22	20
Benzene	1.488	1.578		6.05	20
1,2-Dichloroethane	0.566	0.567		0.18	20
Trichloroethene	0.360	0.388		7.78	20
1,2-Dichloropropane	0.381	0.396		3.94	20
Bromodichloromethane	0.572	0.593		3.67	20
4-Methyl-2-Pentanone	0.477	0.454		-4.82	20
Toluene	0.917	0.958		4.47	20
t-1,3-Dichloropropene	0.584	0.594		1.71	20
cis-1,3-Dichloropropene	0.624	0.655		4.97	20
1,1,2-Trichloroethane	0.354	0.352		-0.56	20
2-Hexanone	0.343	0.312		-9.04	20
Dibromochloromethane	0.407	0.423		3.93	20
1,2-Dibromoethane	0.360	0.368		2.22	20
Tetrachloroethene	0.326	0.343		5.22	20
Chlorobenzene	1.136	1.190	0.3	4.75	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/22/2025 09:38
Lab File ID:	VX047689.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	2.061		5.15	20
m/p-Xylenes	0.729	0.769		5.49	20
o-Xylene	0.706	0.749		6.09	20
Styrene	1.236	1.299		5.1	20
Bromoform	0.293	0.311	0.1	6.14	20
Isopropylbenzene	3.801	3.908		2.82	20
1,1,2,2-Tetrachloroethane	1.150	1.132	0.3	-1.57	20
1,3-Dichlorobenzene	1.739	1.762		1.32	20
1,4-Dichlorobenzene	1.785	1.762		-1.29	20
1,2-Dichlorobenzene	1.657	1.676		1.15	20
1,2-Dibromo-3-Chloropropane	0.233	0.210		-9.87	20
1,2,4-Trichlorobenzene	1.077	1.056		-1.95	20
1,2,3-Trichlorobenzene	1.002	0.960		-4.19	20
1,2-Dichloroethane-d4	0.796	0.814		2.26	20
Dibromofluoromethane	0.335	0.363		8.36	20
Toluene-d8	1.160	1.219		5.09	20
4-Bromofluorobenzene	0.440	0.451		2.5	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	186088	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	326997	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	282237	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	135594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	151386	51.108	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.220%			
35) Dibromofluoromethane	5.367	113	118783	54.164	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.320%			
50) Toluene-d8	8.629	98	398559	52.523	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 105.040%			
62) 4-Bromofluorobenzene	11.061	95	147405	51.184	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	130582	67.766	ug/l	99
3) Chloromethane	1.301	50	154386	60.960	ug/l	99
4) Vinyl Chloride	1.380	62	154105	62.162	ug/l	100
5) Bromomethane	1.618	94	100963	64.225	ug/l	98
6) Chloroethane	1.697	64	95237	57.477	ug/l	99
7) Trichlorofluoromethane	1.892	101	214231	58.200	ug/l	99
8) Diethyl Ether	2.136	74	81887	54.382	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	122289	56.816	ug/l	100
10) Methyl Iodide	2.453	142	180951	53.906	ug/l	99
11) Tert butyl alcohol	2.934	59	68582	207.891	ug/l	100
12) 1,1-Dichloroethene	2.325	96	125529	56.777	ug/l	97
13) Acrolein	2.233	56	82024	269.814	ug/l	99
14) Allyl chloride	2.666	41	243094	53.283	ug/l	98
15) Acrylonitrile	3.050	53	313655	256.685	ug/l	99
16) Acetone	2.367	43	299354	232.434	ug/l	98
17) Carbon Disulfide	2.514	76	364510	60.224	ug/l	98
18) Methyl Acetate	2.697	43	140835	49.136	ug/l	97
19) Methyl tert-butyl Ether	3.105	73	417728	51.758	ug/l	97
20) Methylene Chloride	2.788	84	144810	53.119	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	131016	55.041	ug/l	99
22) Diisopropyl ether	3.745	45	471640	53.342	ug/l	90
23) Vinyl Acetate	3.709	43	1878460	265.449	ug/l	99
24) 1,1-Dichloroethane	3.599	63	253921	54.031	ug/l	98
25) 2-Butanone	4.532	43	375302	233.614	ug/l	99
26) 2,2-Dichloropropane	4.465	77	204537	52.358	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	156127	53.558	ug/l	99
28) Bromochloromethane	4.879	49	103740	50.564	ug/l	100
29) Tetrahydrofuran	4.977	42	225711	233.550	ug/l	99
30) Chloroform	5.074	83	248553	52.338	ug/l	99
31) Cyclohexane	5.452	56	204247	52.182	ug/l	97
32) 1,1,1-Trichloroethane	5.367	97	210320	52.212	ug/l	99
36) 1,1-Dichloropropene	5.672	75	165531	51.655	ug/l	99
37) Ethyl Acetate	4.690	43	160957	46.911	ug/l	99
38) Carbon Tetrachloride	5.660	117	178720	51.330	ug/l	96
39) Methylcyclohexane	7.360	83	191182	52.558	ug/l	95
40) Benzene	6.019	78	516015	53.017	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.891	41	87133	49.191	ug/l		98
42) 1,2-Dichloroethane	6.068	62	185367	50.055	ug/l		99
43) Isopropyl Acetate	6.318	43	270484	48.067	ug/l		99
44) Trichloroethene	7.104	130	127009	53.976	ug/l		95
45) 1,2-Dichloropropane	7.409	63	129510	51.965	ug/l		100
46) Dibromomethane	7.562	93	92404	50.950	ug/l		97
47) Bromodichloromethane	7.805	83	193942	51.822	ug/l		97
48) Methyl methacrylate	7.671	41	135938	48.497	ug/l		99
49) 1,4-Dioxane	7.635	88	27869	983.820	ug/l		93
51) 4-Methyl-2-Pentanone	8.555	43	742395	237.947	ug/l		100
52) Toluene	8.702	92	313273	52.243	ug/l		98
53) t-1,3-Dichloropropene	8.958	75	194304	50.900	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	214043	52.459	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	114964	49.721	ug/l		99
56) Ethyl methacrylate	9.098	69	181815	50.070	ug/l		97
57) 1,3-Dichloropropane	9.293	76	202781	51.053	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	433231	249.751	ug/l		99
59) 2-Hexanone	9.415	43	509641	227.437	ug/l		99
60) Dibromochloromethane	9.500	129	138233	51.886	ug/l		99
61) 1,2-Dibromoethane	9.592	107	120255	51.062	ug/l		100
64) Tetrachloroethene	9.256	164	96914	52.674	ug/l		98
65) Chlorobenzene	10.061	112	335812	52.373	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	116763	52.773	ug/l		99
67) Ethyl Benzene	10.177	91	581779	52.587	ug/l		100
68) m/p-Xylenes	10.281	106	434058	105.410	ug/l		99
69) o-Xylene	10.622	106	211322	53.057	ug/l		98
70) Styrene	10.634	104	366737	52.550	ug/l		98
71) Bromoform	10.781	173	87766	53.124	ug/l	#	98
73) Isopropylbenzene	10.945	105	529861	51.399	ug/l		100
74) N-amyl acetate	10.823	43	231908	49.332	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	153486	49.211	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	124442m	45.328	ug/l		
77) Bromobenzene	11.177	156	130012	51.207	ug/l		97
78) n-propylbenzene	11.287	91	623815	51.190	ug/l		99
79) 2-Chlorotoluene	11.348	91	380369	50.962	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	436393	51.525	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	52034	48.334	ug/l		96
82) 4-Chlorotoluene	11.433	91	447005	50.709	ug/l		99
83) tert-Butylbenzene	11.695	119	428900	49.469	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	440824	51.338	ug/l		99
85) sec-Butylbenzene	11.872	105	518888	50.386	ug/l		100
86) p-Isopropyltoluene	11.988	119	437167	50.142	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	238855	50.649	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	238927	49.364	ug/l		99
89) n-Butylbenzene	12.311	91	406919	50.441	ug/l		99
90) Hexachloroethane	12.518	117	79281	51.794	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	227197	50.568	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28445	45.046	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	143201	49.042	ug/l		100
94) Hexachlorobutadiene	13.707	225	46654	47.039	ug/l		99
95) Naphthalene	13.756	128	414295	46.595	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	130139	47.912	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
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Misc : 5.0mL/MSVOA_X/WATER
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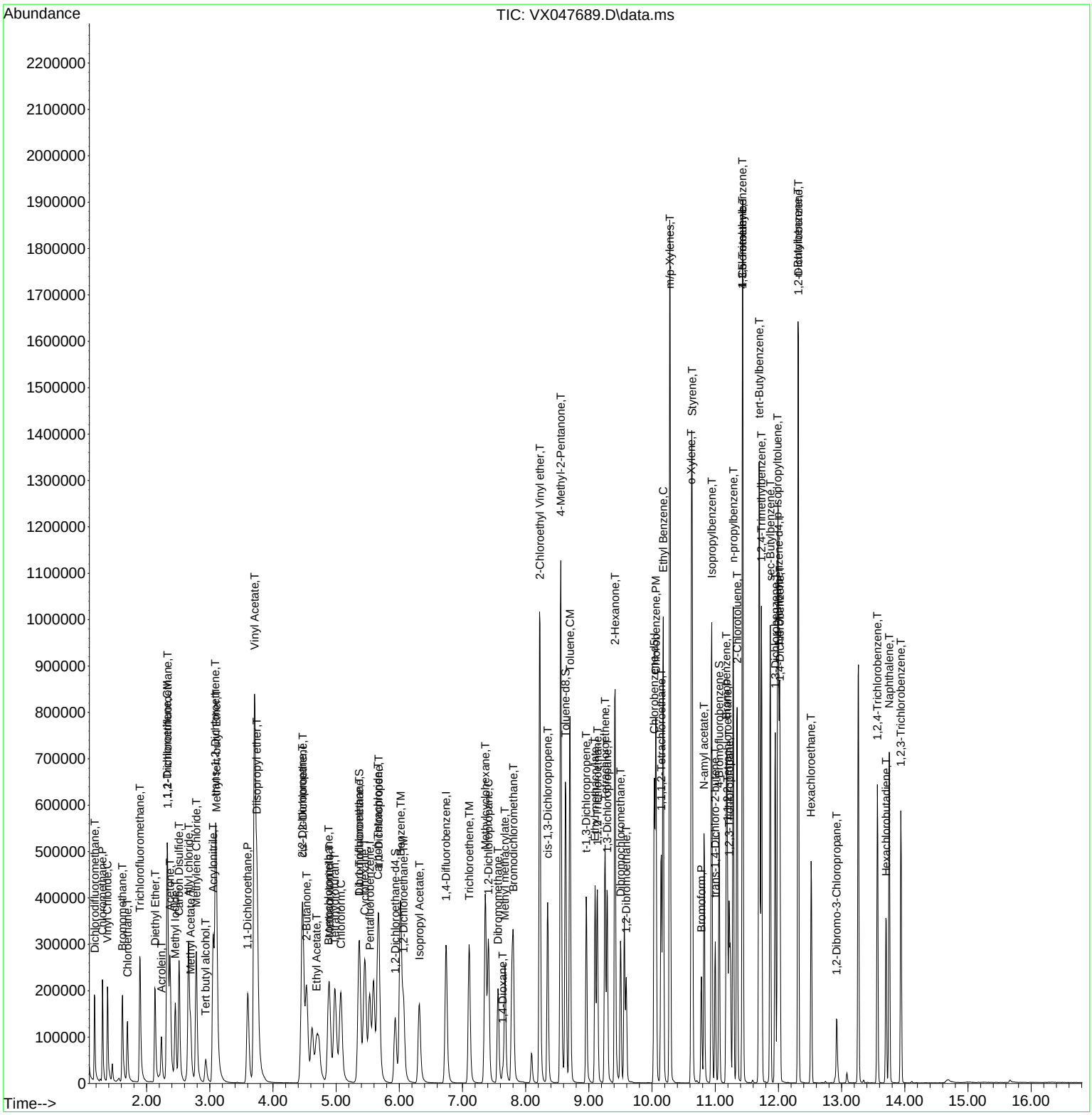
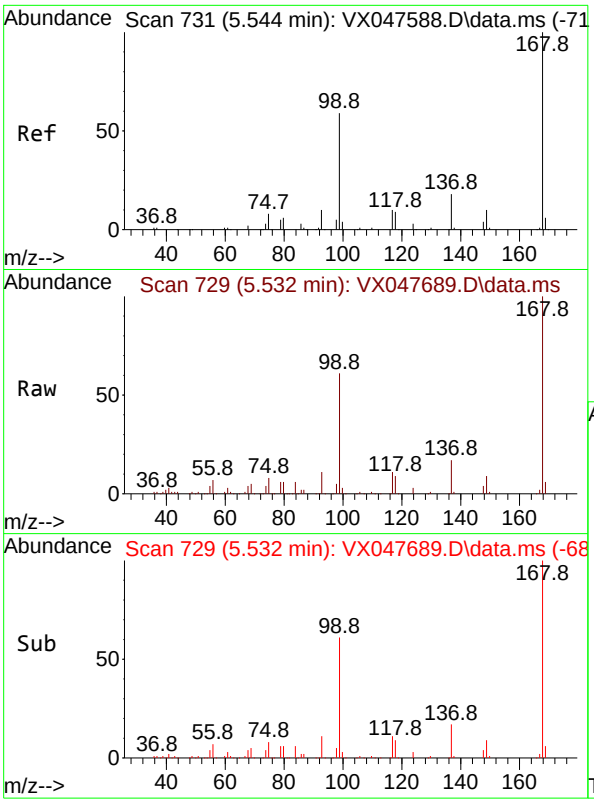
Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

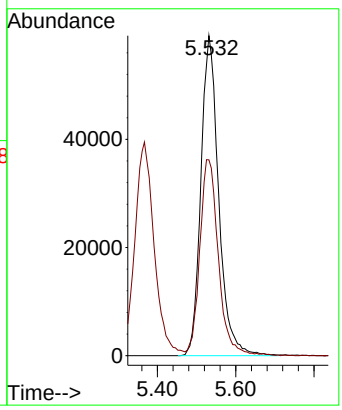




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:168 Resp: 18608

Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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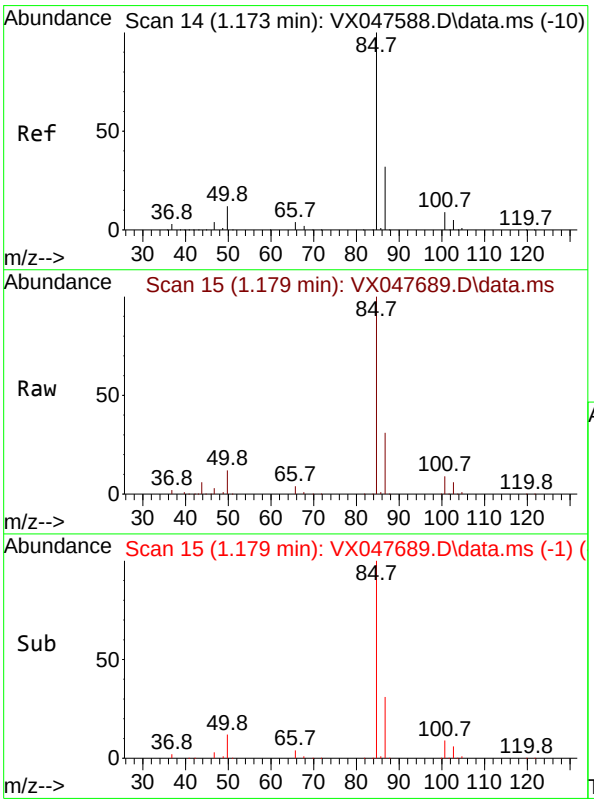
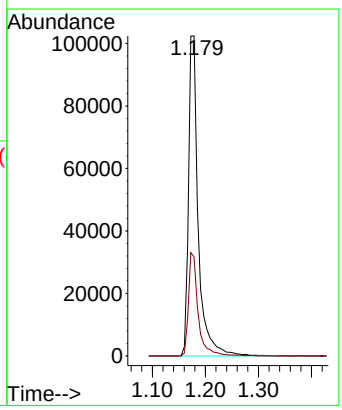
Supervised By :Mahesh Dadoda 09/24/2025

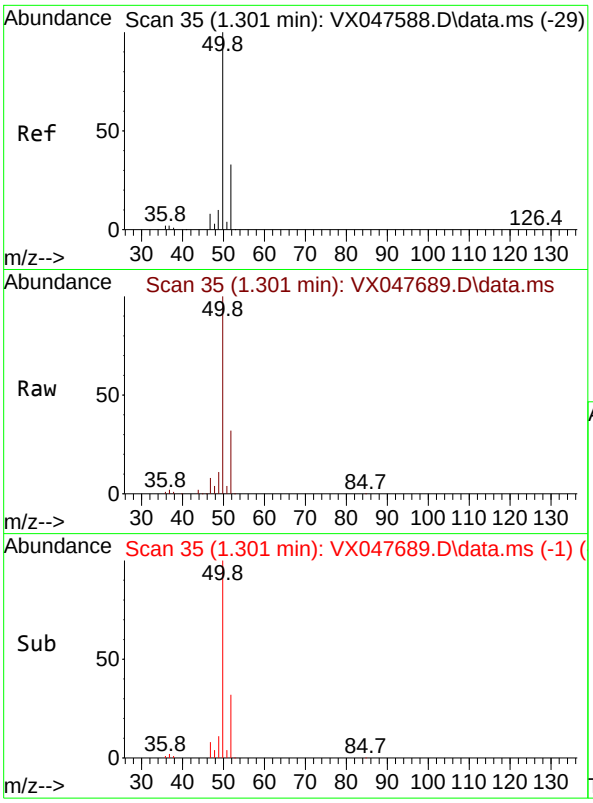


#2
Dichlorodifluoromethane
Concen: 67.766 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 85 Resp: 130582

Ion	Ratio	Lower	Upper
85	100		
87	31.0	15.8	47.3

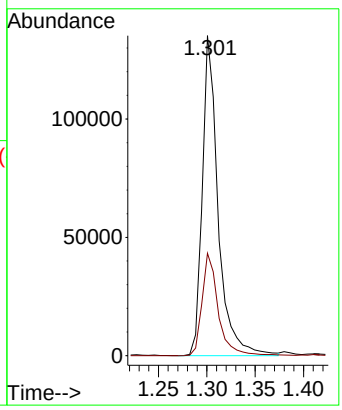




#3
Chloromethane
Concen: 60.960 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 50 Resp: 15438

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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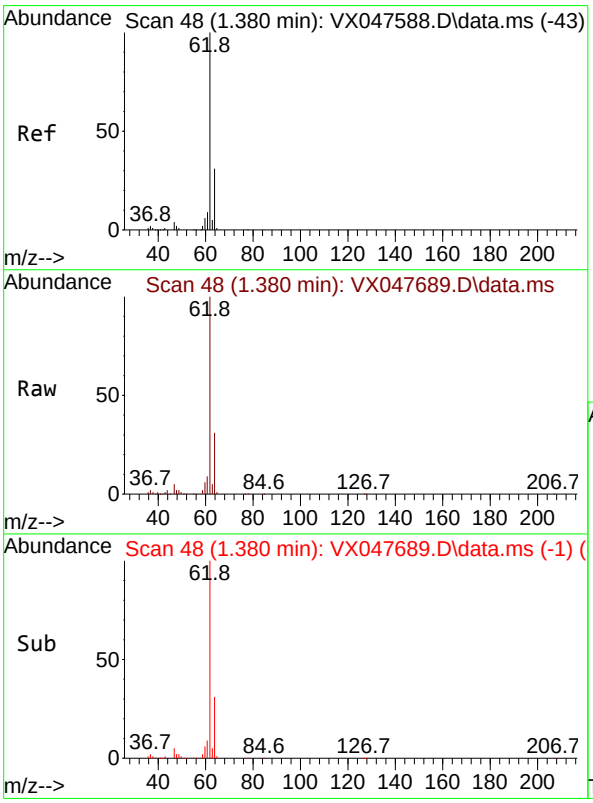
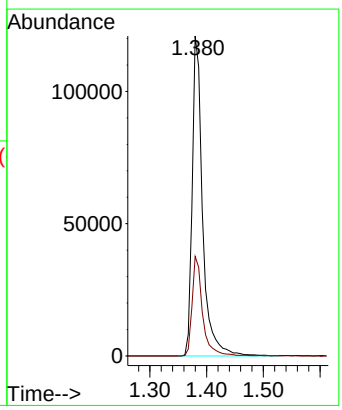
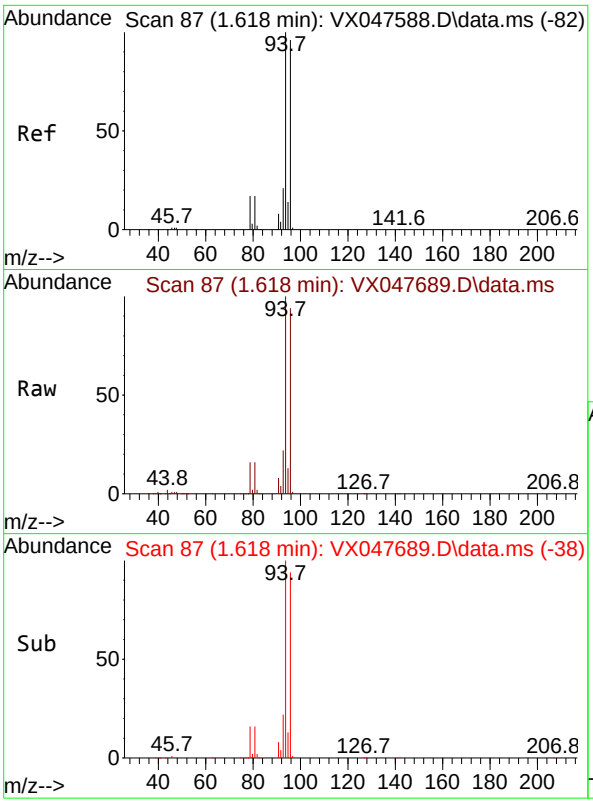


#4
Vinyl Chloride
Concen: 62.162 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 62 Resp: 154105

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

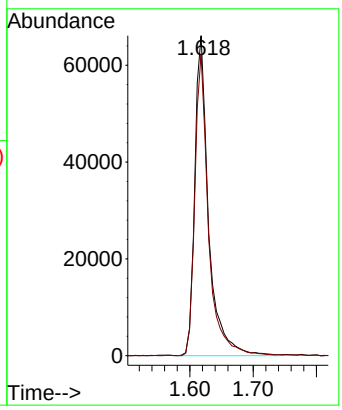




#5
Bromomethane
Concen: 64.225 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 94 Resp: 10096

Ion	Ratio	Lower	Upper
94	100		
96	94.1	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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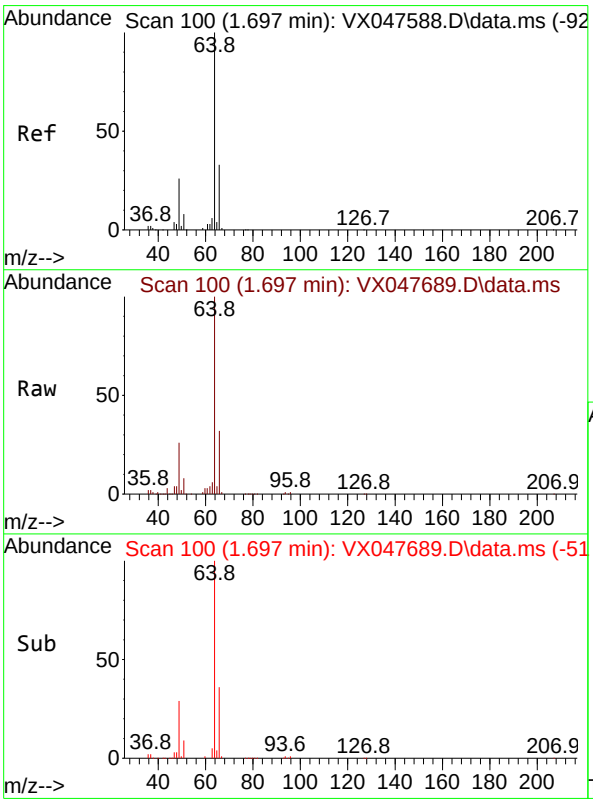
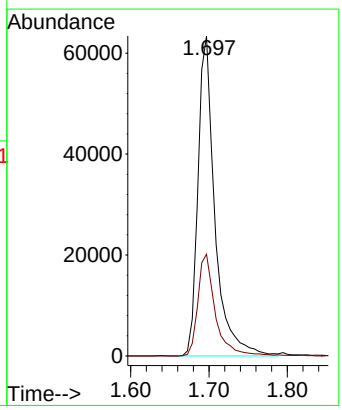
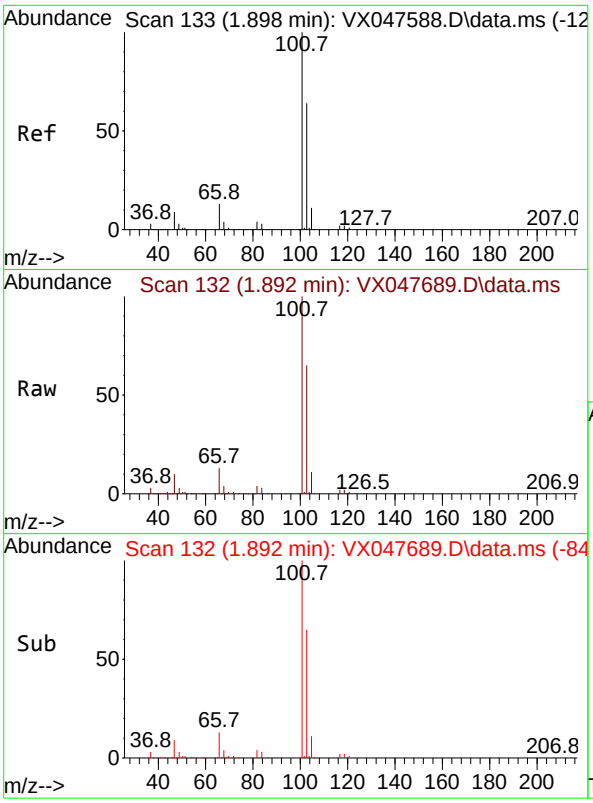


#6
Chloroethane
Concen: 57.477 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 64 Resp: 95237

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.1	39.1





#7
Trichlorofluoromethane
Concen: 58.200 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

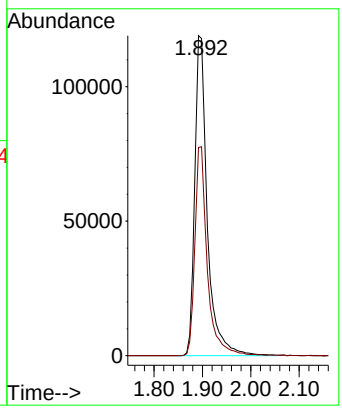
Tgt Ion:101 Resp: 21423

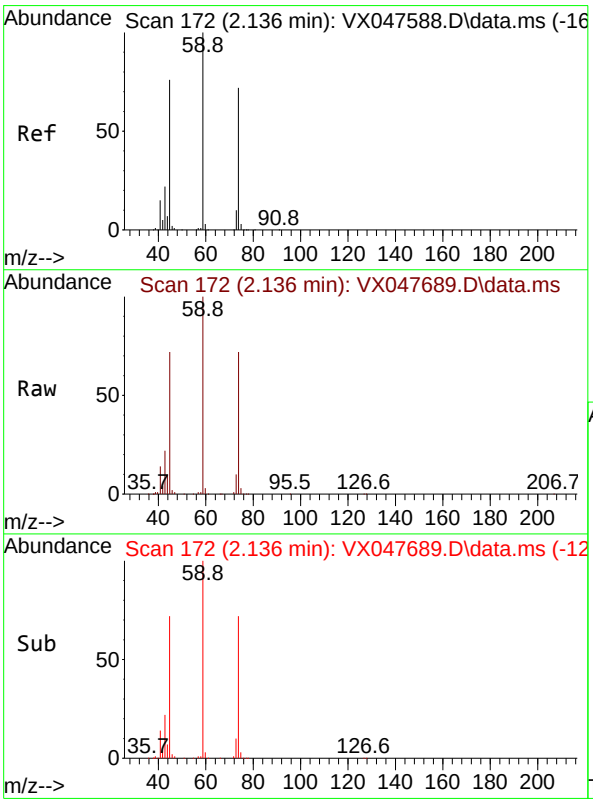
Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

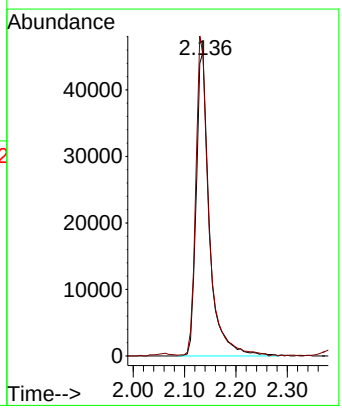


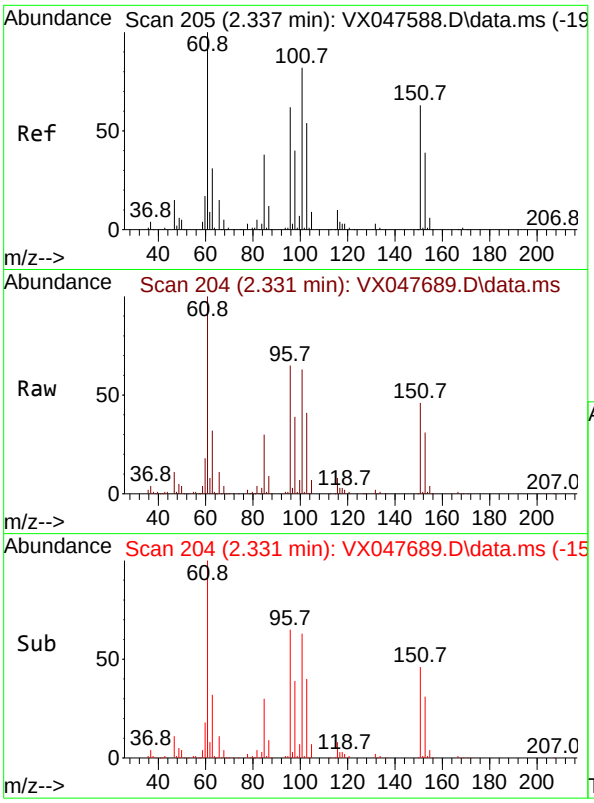


#8
Diethyl Ether
Concen: 54.382 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 74 Resp: 81887

Ion	Ratio	Lower	Upper
74	100		
45	103.1	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.816 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:101 Resp: 12228

Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	74.6	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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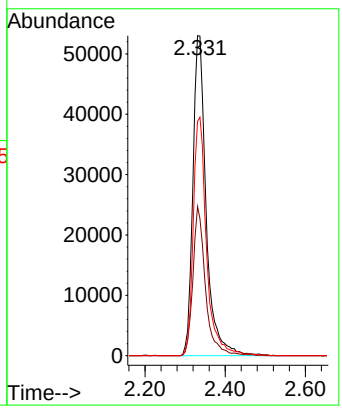
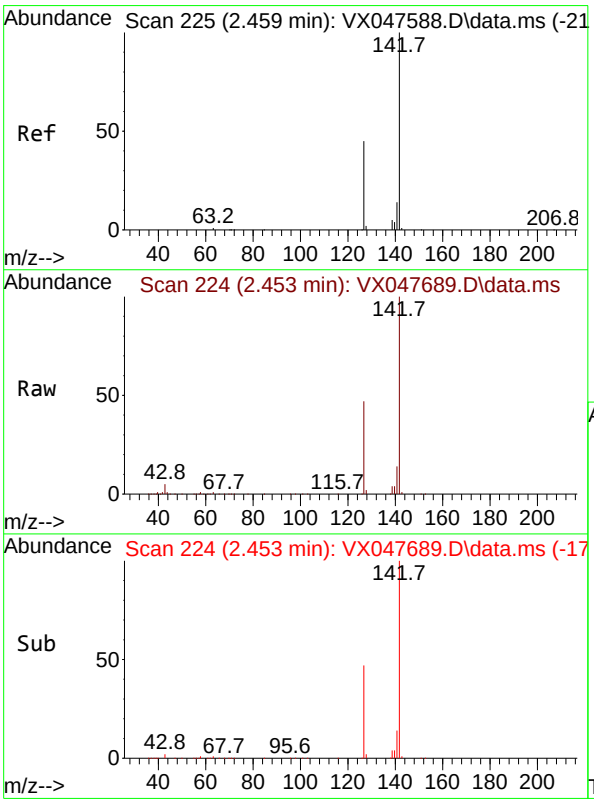
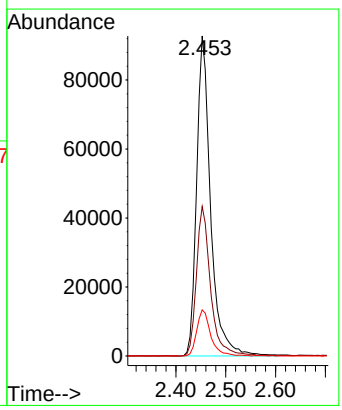


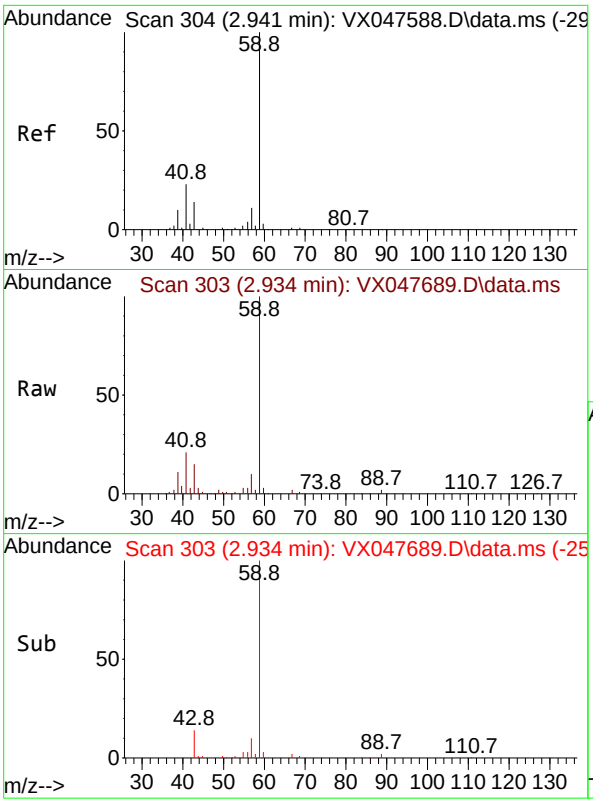


#10
Methyl Iodide
Concen: 53.906 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:142 Resp: 180951

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.4	11.4	17.0

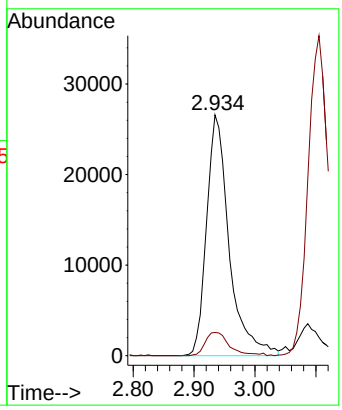




#11
Tert butyl alcohol
Concen: 207.891 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 59 Resp: 6858

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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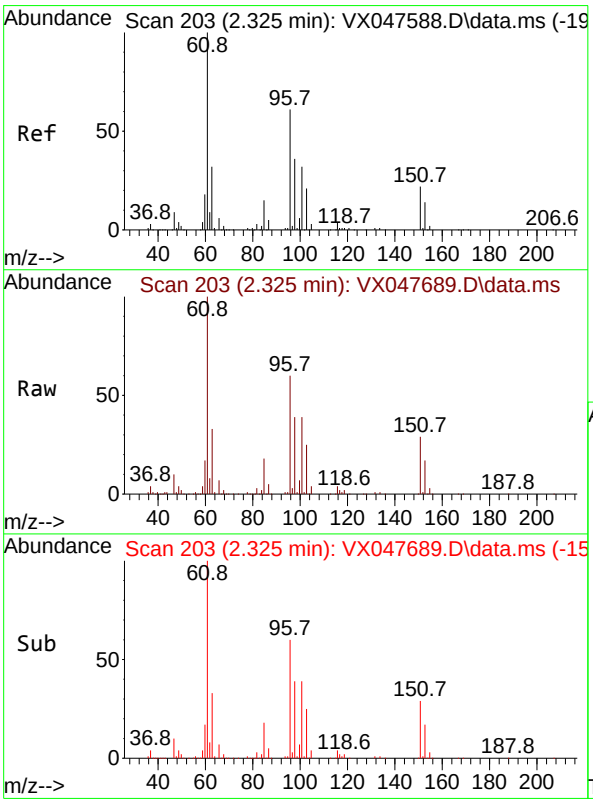
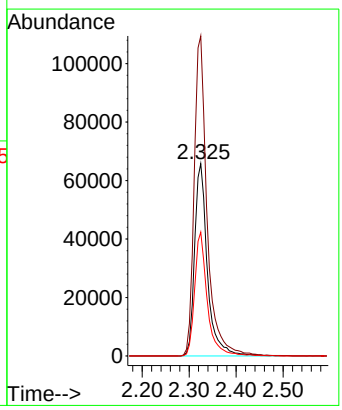
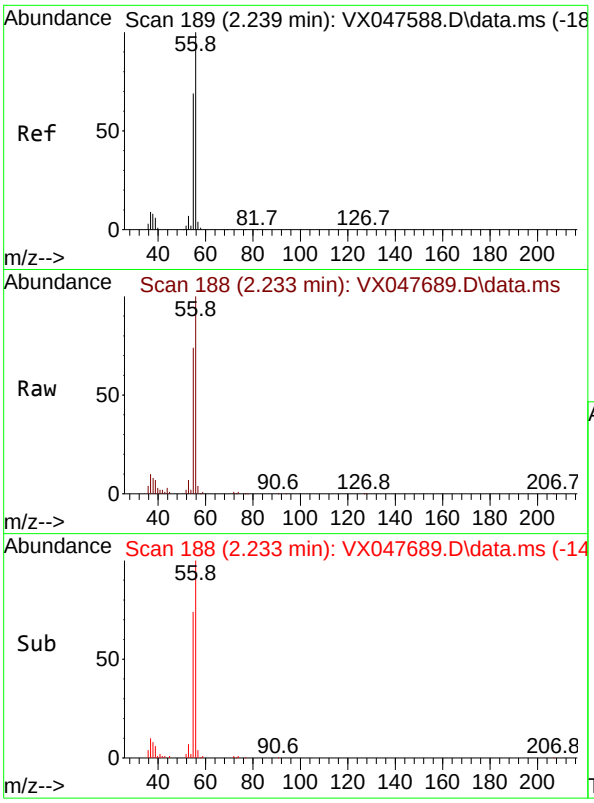


#12
1,1-Dichloroethene
Concen: 56.777 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 96 Resp: 125529

Ion	Ratio	Lower	Upper
96	100		
61	166.4	131.0	196.6
98	64.4	47.7	71.5





#13
Acrolein
Concen: 269.814 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 56 Resp: 8202

Ion	Ratio	Lower	Upper
56	100		
55	70.7	57.2	85.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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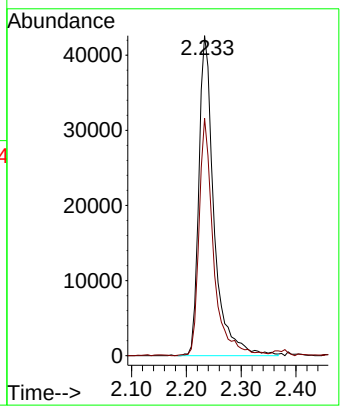
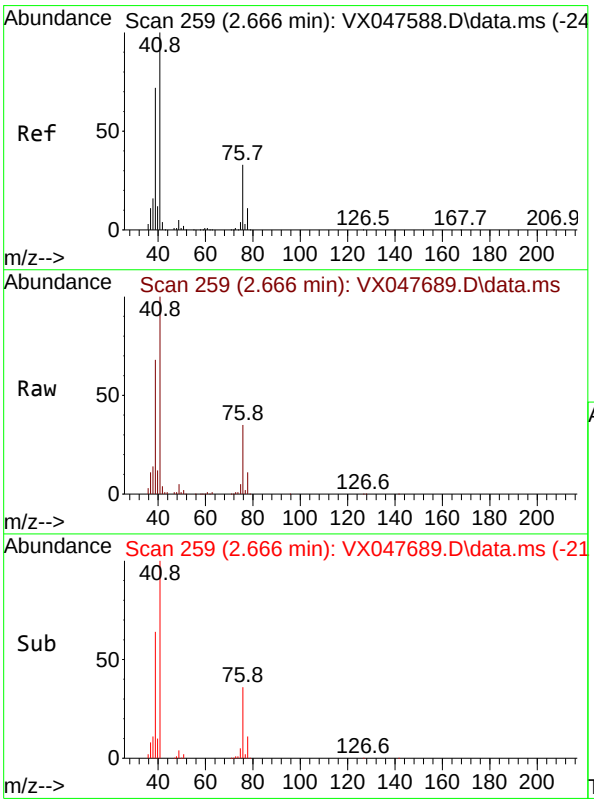
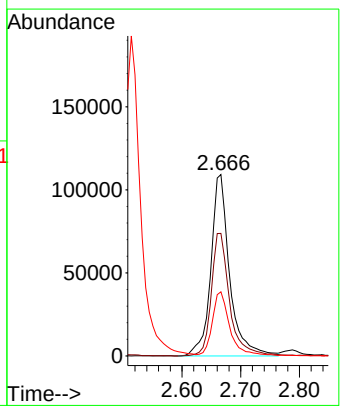


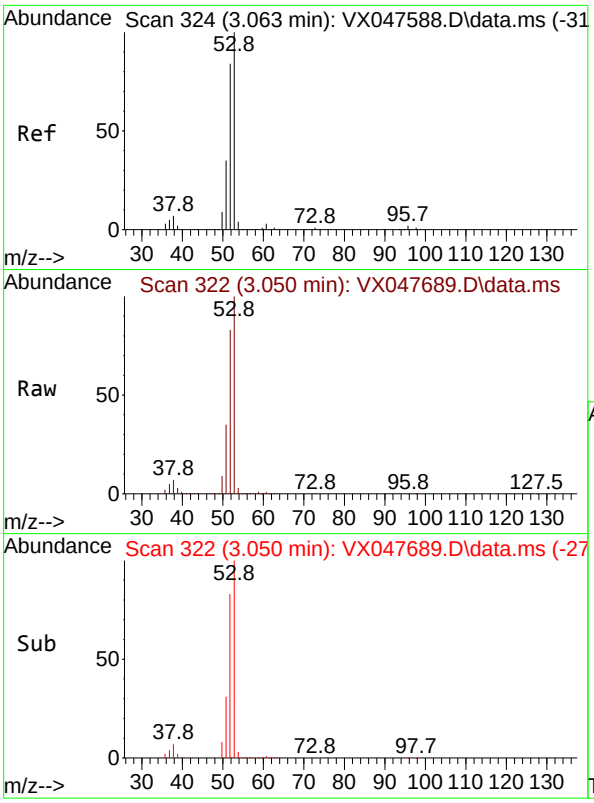


#14
Allyl chloride
Concen: 53.283 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 41 Resp: 243094

Ion	Ratio	Lower	Upper
41	100		
39	66.0	54.7	82.1
76	32.1	25.7	38.5

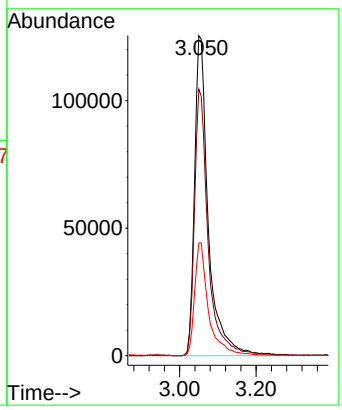




#15
Acrylonitrile
Concen: 256.685 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 53 Resp: 31365

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.0	29.5	44.3



Instrument :
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ClientSampleId :
VSTDCCC050

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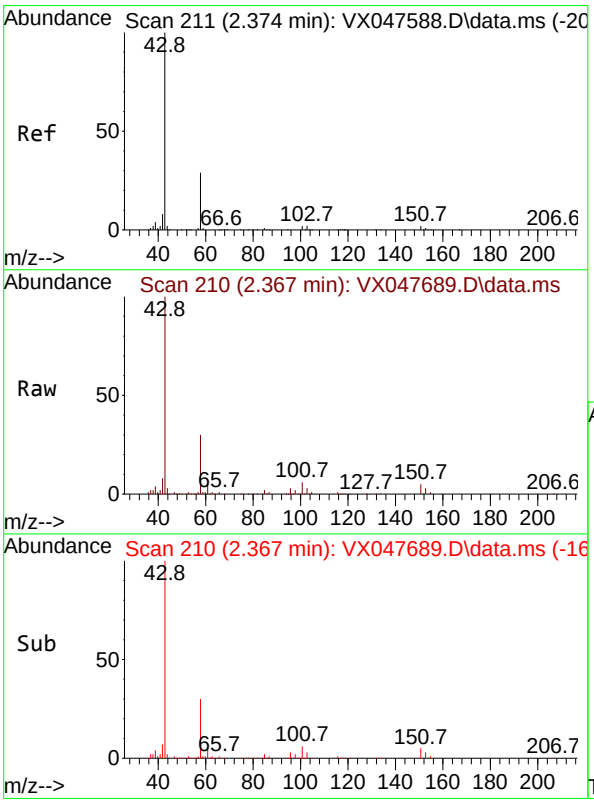
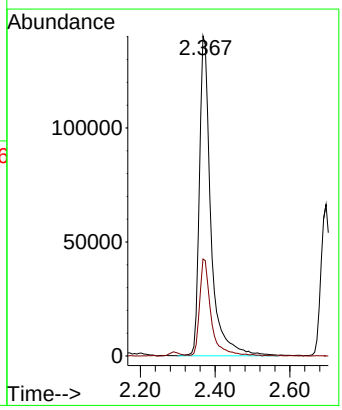
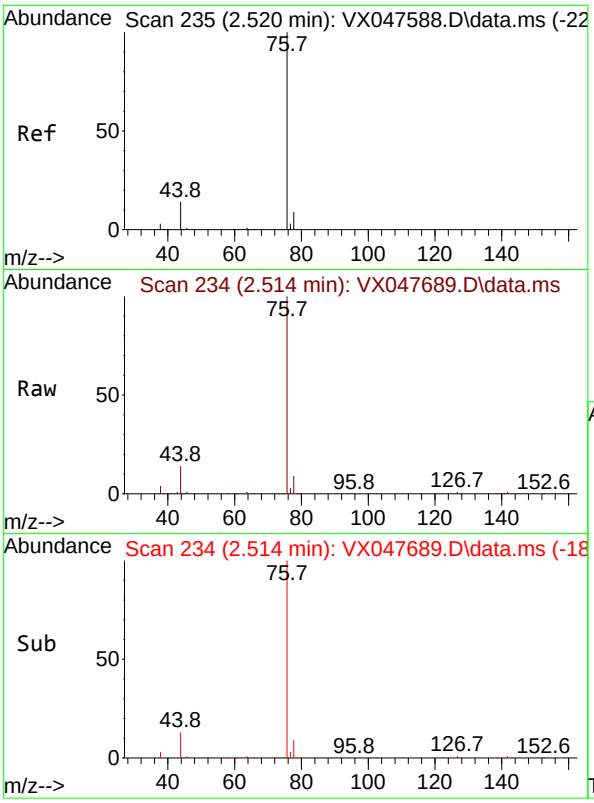


#16
Acetone
Concen: 232.434 ug/l
RT: 2.367 min Scan# 210
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 299354

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.4	35.0





#17
Carbon Disulfide
Concen: 60.224 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 76 Resp: 36451

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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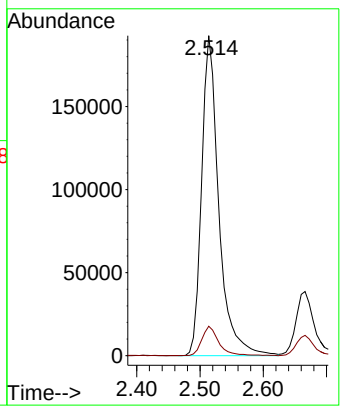
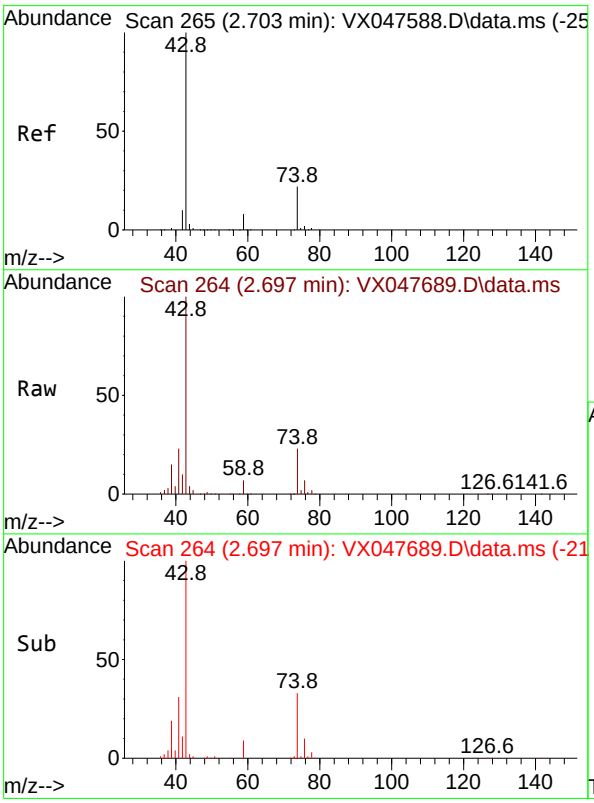
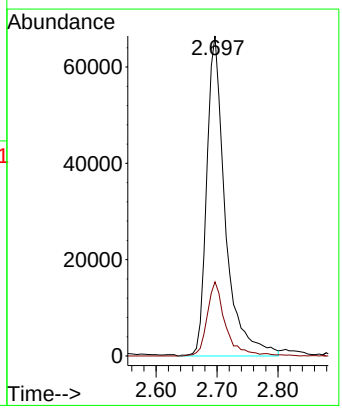


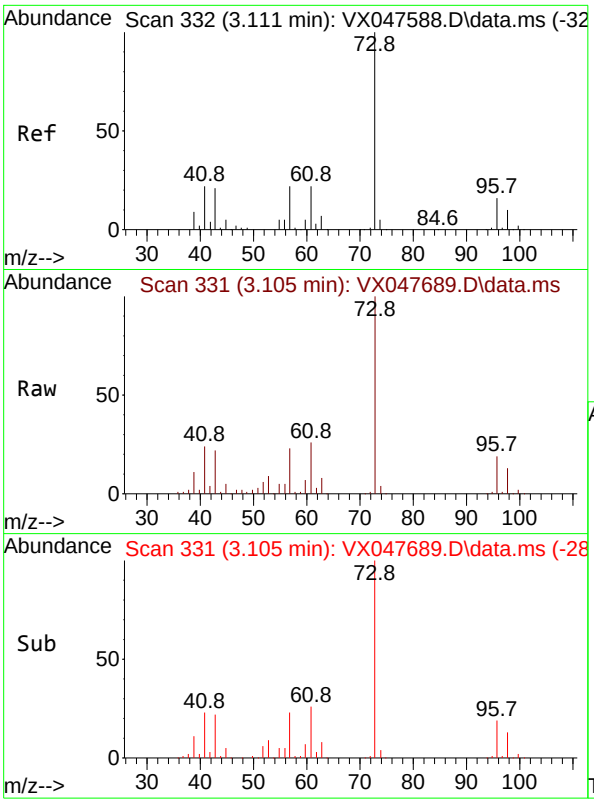


#18
Methyl Acetate
Concen: 49.136 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 140835

Ion	Ratio	Lower	Upper
43	100		
74	23.0	17.4	26.2

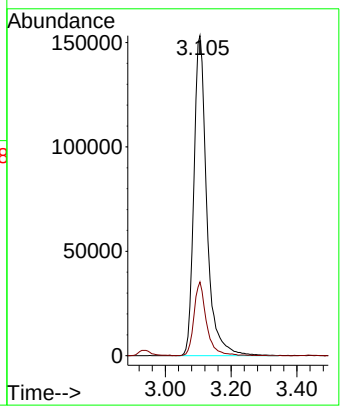




#19
Methyl tert-butyl Ether
Concen: 51.758 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 73 Resp: 41772

Ion	Ratio	Lower	Upper
73	100		
57	23.1	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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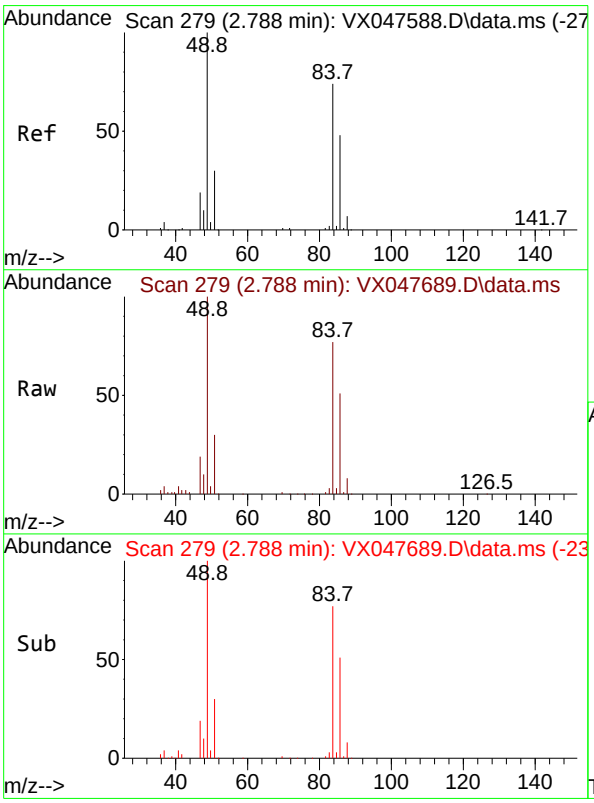
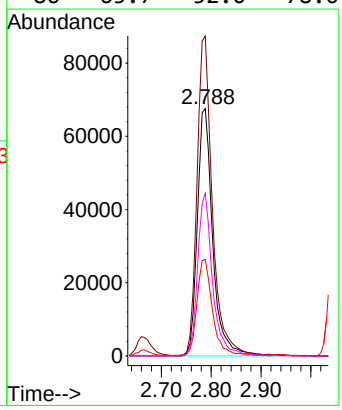
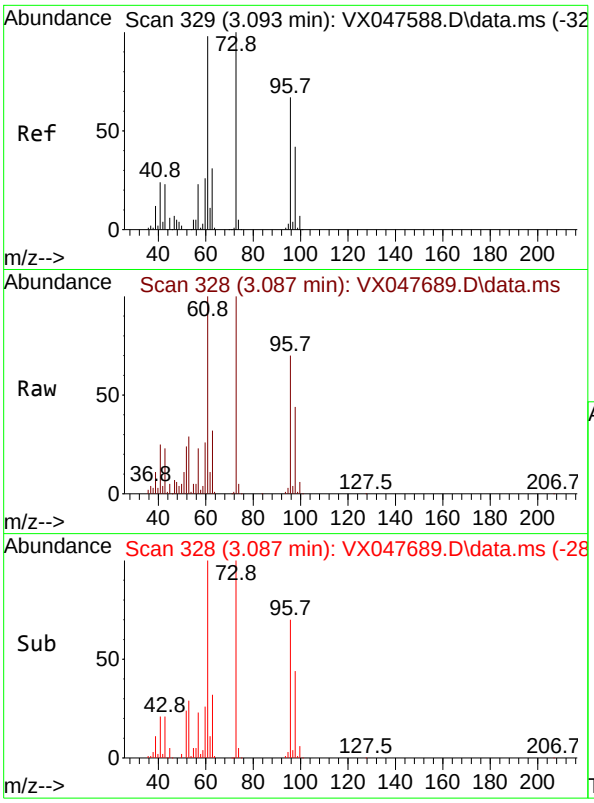


#20
Methylene Chloride
Concen: 53.119 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 84 Resp: 144810

Ion	Ratio	Lower	Upper
84	100		
49	129.1	108.6	162.8
51	38.9	32.6	48.8
86	65.7	52.0	78.0

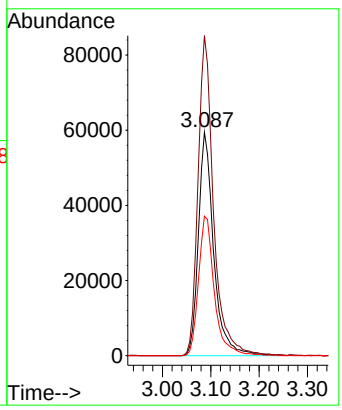




#21
trans-1,2-Dichloroethene
Concen: 55.041 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 96 Resp: 13101

Ion	Ratio	Lower	Upper
96	100		
61	143.1	116.2	174.2
98	62.4	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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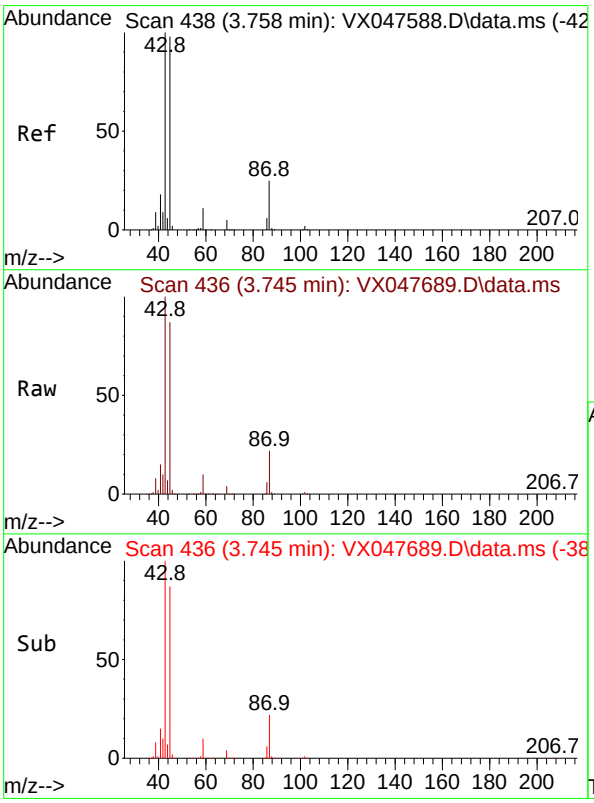
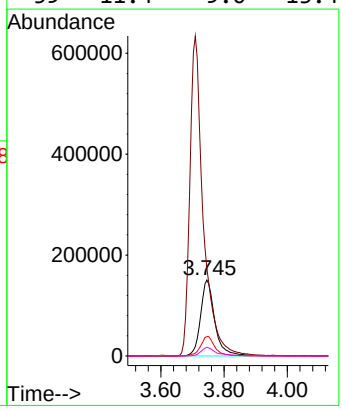
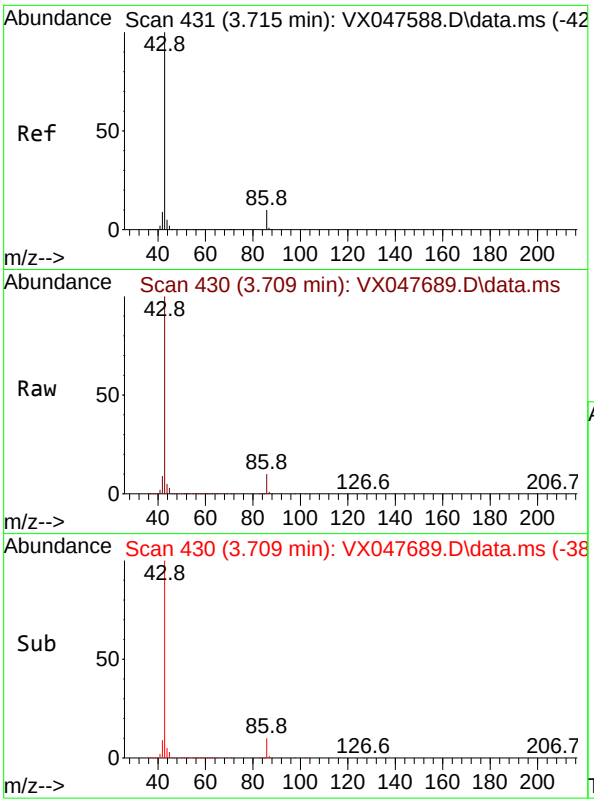


#22
Diisopropyl ether
Concen: 53.342 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 45 Resp: 471640

Ion	Ratio	Lower	Upper
45	100		
43	115.2	81.0	121.4
87	25.5	20.3	30.5
59	11.4	9.0	13.4

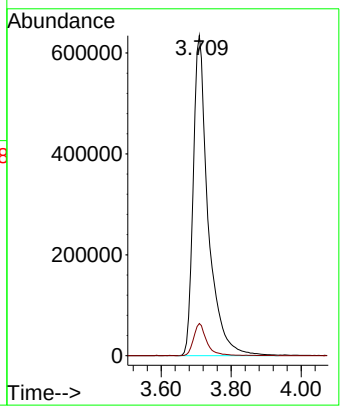




#23
Vinyl Acetate
Concen: 265.449 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 187846

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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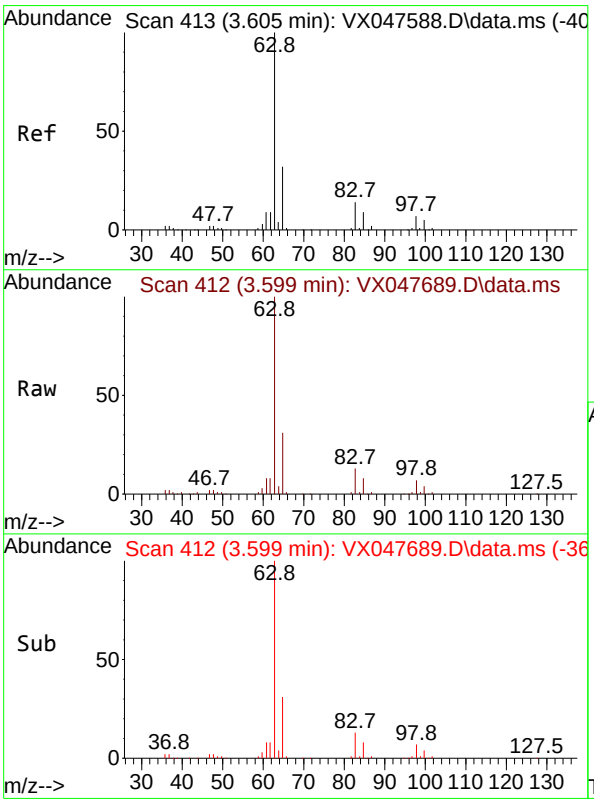
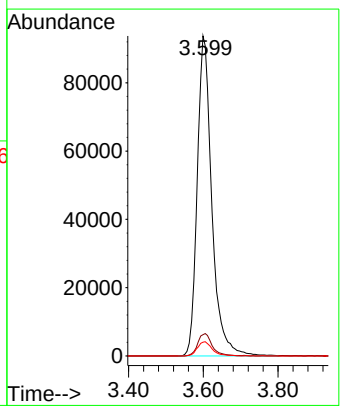
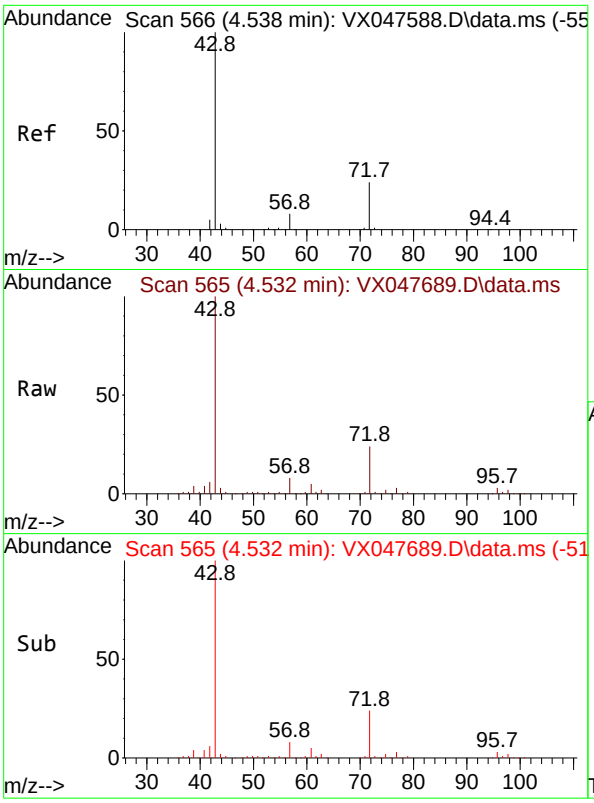


#24
1,1-Dichloroethane
Concen: 54.031 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 63 Resp: 253921

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.3	2.3	6.9

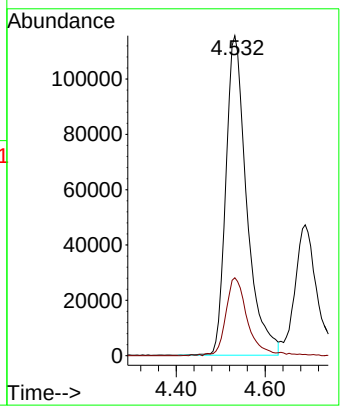




#25
2-Butanone
Concen: 233.614 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 37530

Ion	Ratio	Lower	Upper
43	100		
72	24.5	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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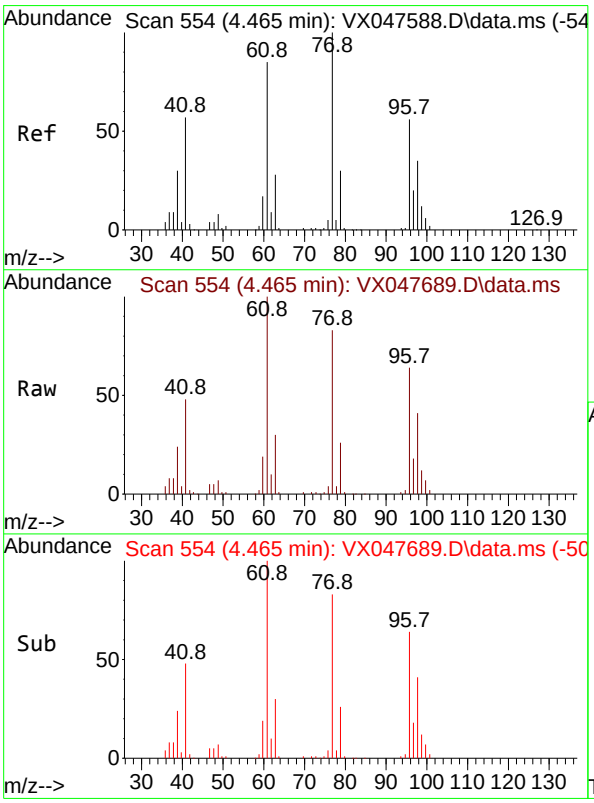
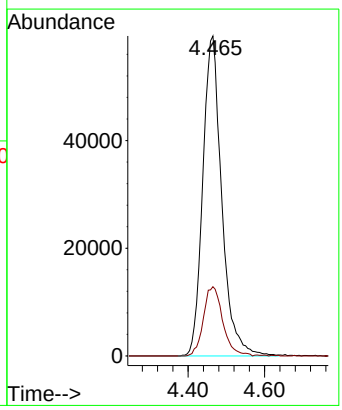
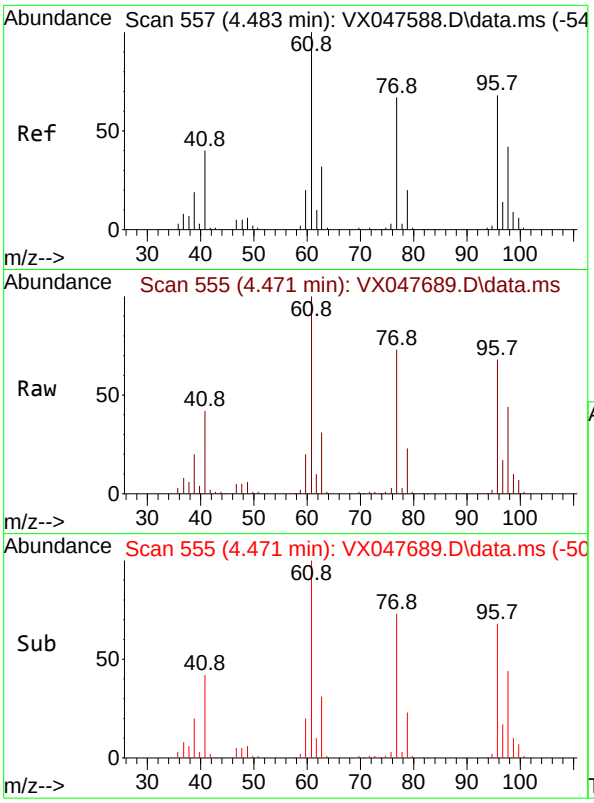


#26
2,2-Dichloropropane
Concen: 52.358 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 77 Resp: 204537

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.9	32.7

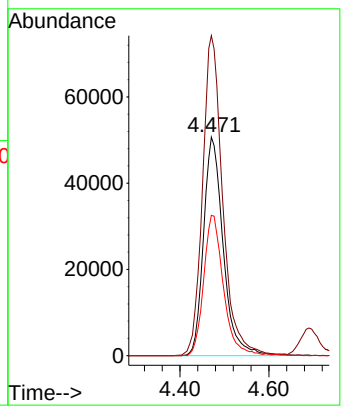




#27
cis-1,2-Dichloroethene
Concen: 53.558 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 96 Resp: 15612

Ion	Ratio	Lower	Upper
96	100		
61	149.9	0.0	303.2
98	64.1	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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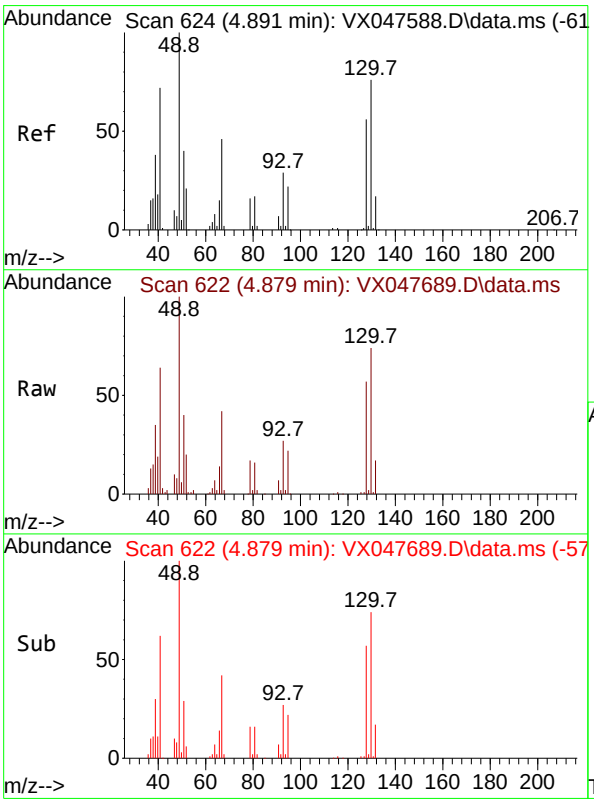
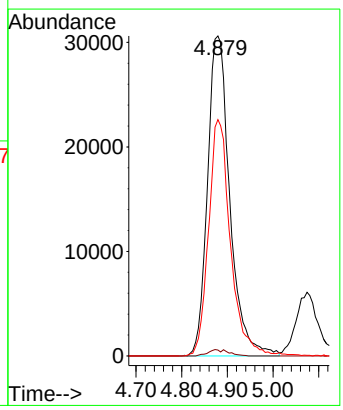
Supervised By :Mahesh Dadoda 09/24/2025

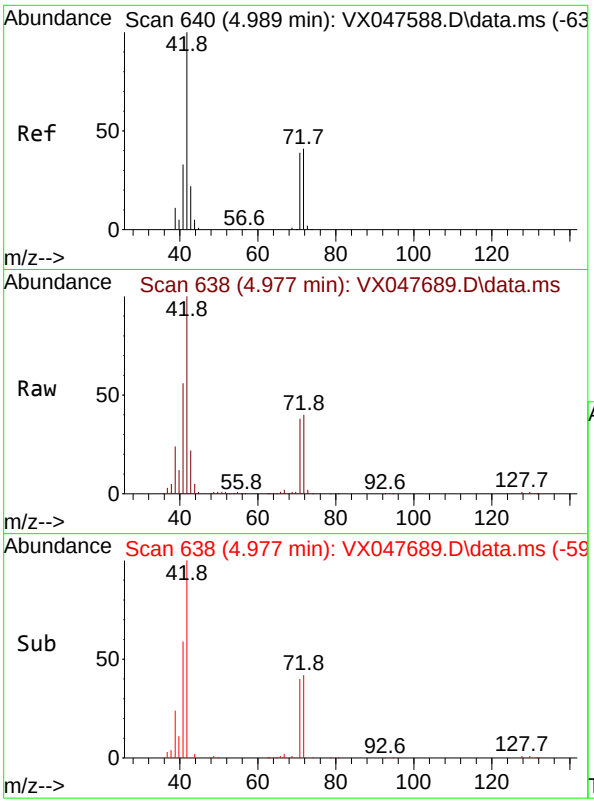


#28
Bromochloromethane
Concen: 50.564 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 49 Resp: 103740

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.7	57.8	86.8





#29
Tetrahydrofuran
Concen: 233.550 ug/l
RT: 4.977 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 42 Resp: 22571

Ion	Ratio	Lower	Upper
42	100		
72	43.3	34.2	51.2
71	39.7	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
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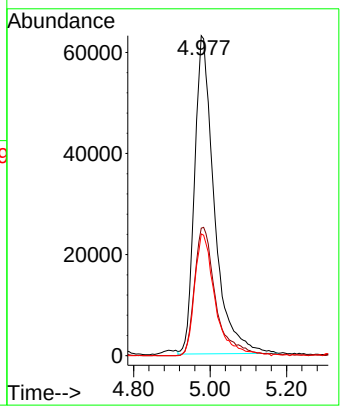
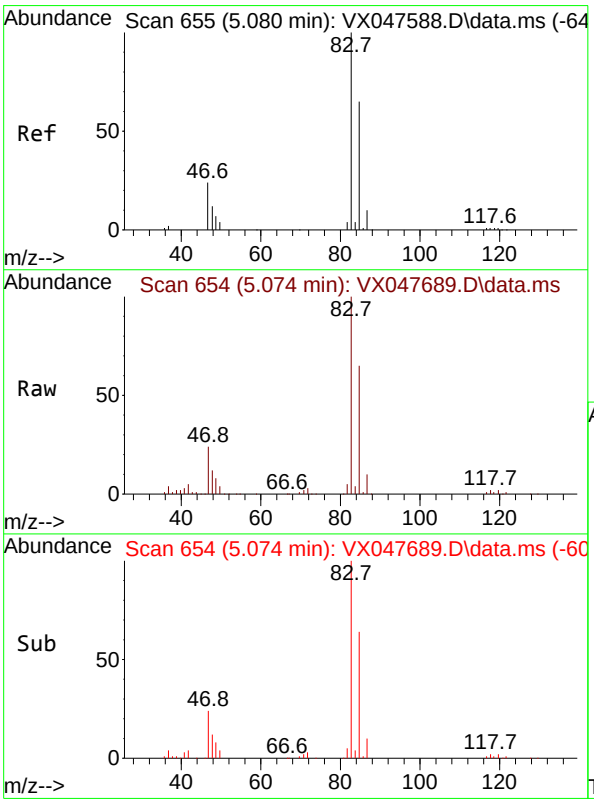
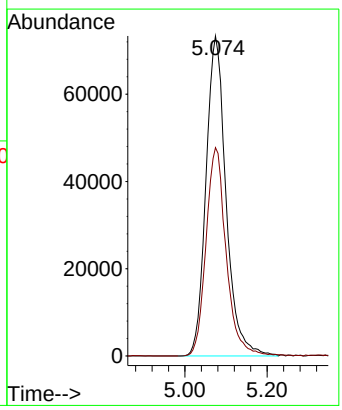


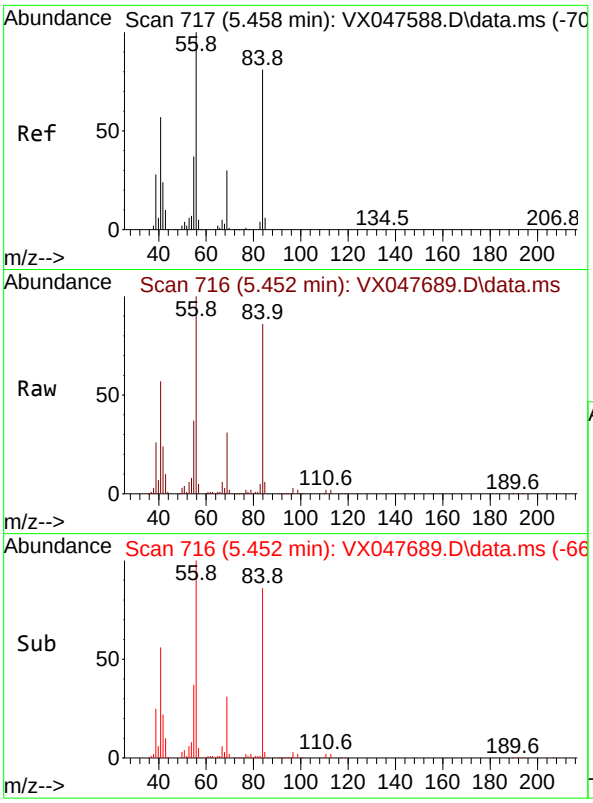


#30
Chloroform
Concen: 52.338 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 83 Resp: 248553

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.6

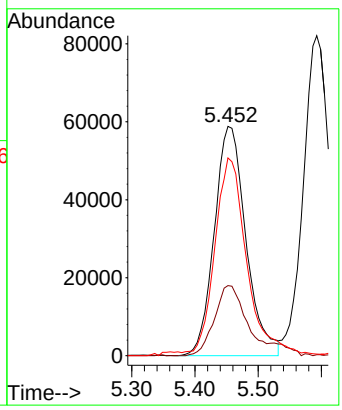




#31
Cyclohexane
Concen: 52.182 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 56 Resp: 20424

Ion	Ratio	Lower	Upper
56	100		
69	30.3	23.8	35.8
84	84.3	64.6	97.0



Instrument :
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ClientSampleId :
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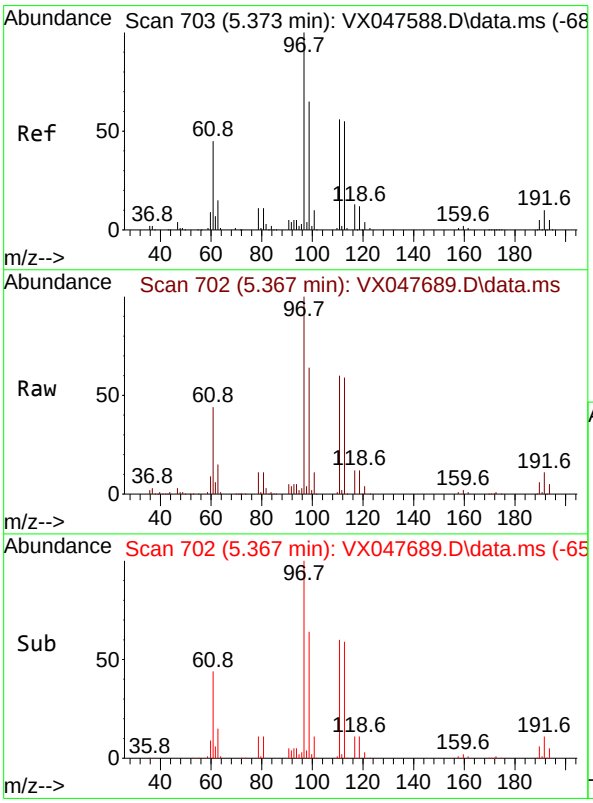
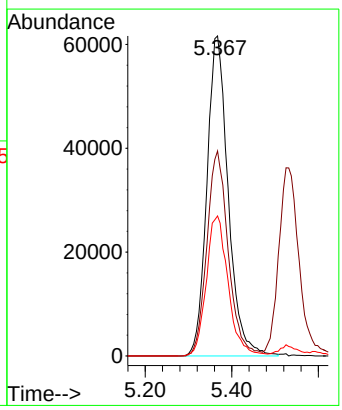
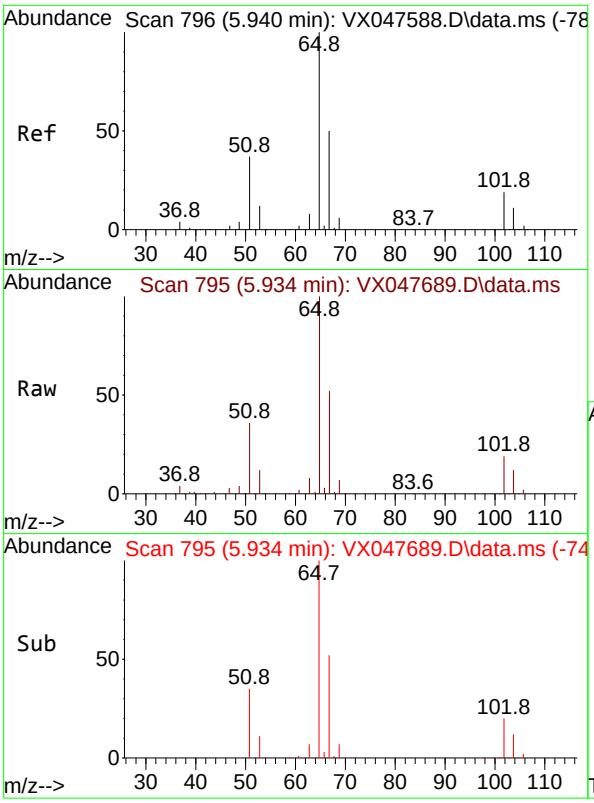


#32
1,1,1-Trichloroethane
Concen: 52.212 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 97 Resp: 210320

Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.6	76.0
61	45.1	35.8	53.8

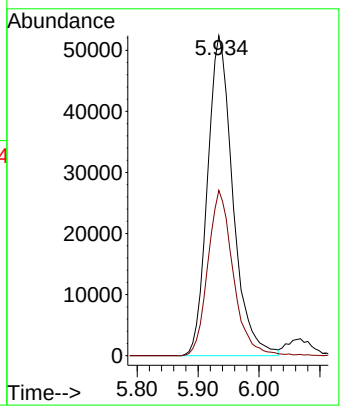




#33
1,2-Dichloroethane-d4
Concen: 51.108 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 65 Resp: 15138

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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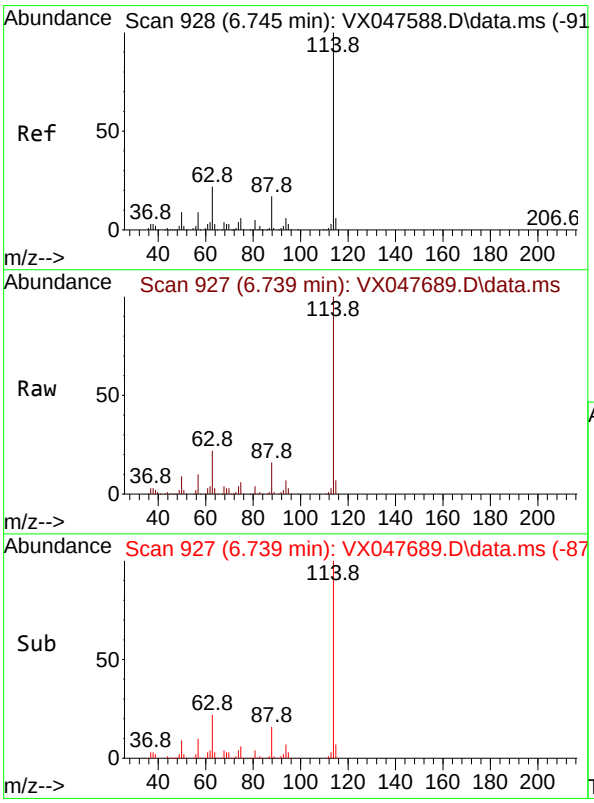
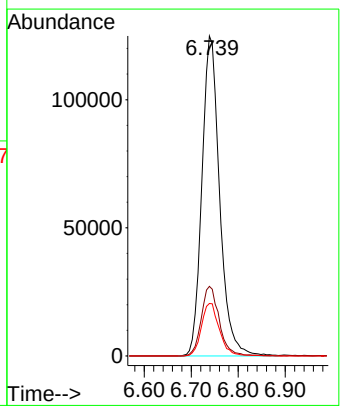
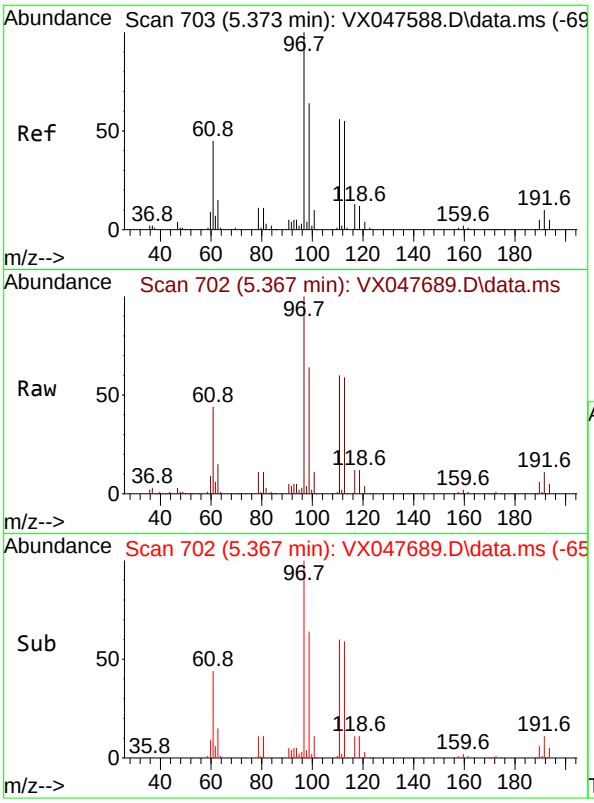


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:114 Resp: 326997

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	44.0
88	16.4	0.0	34.2

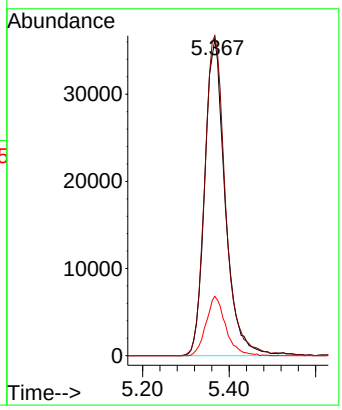




#35
Dibromofluoromethane
Concen: 54.164 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:113 Resp: 11878

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	18.1	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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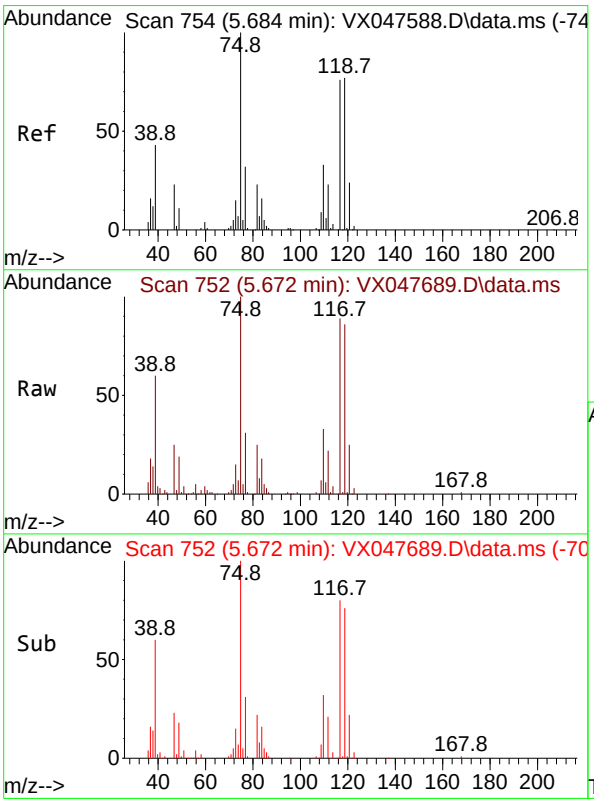
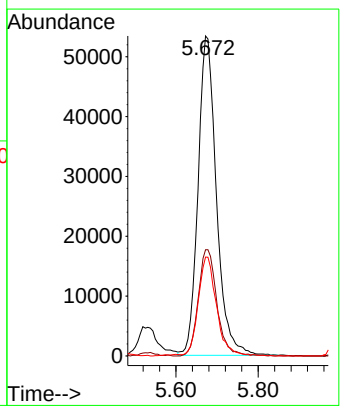
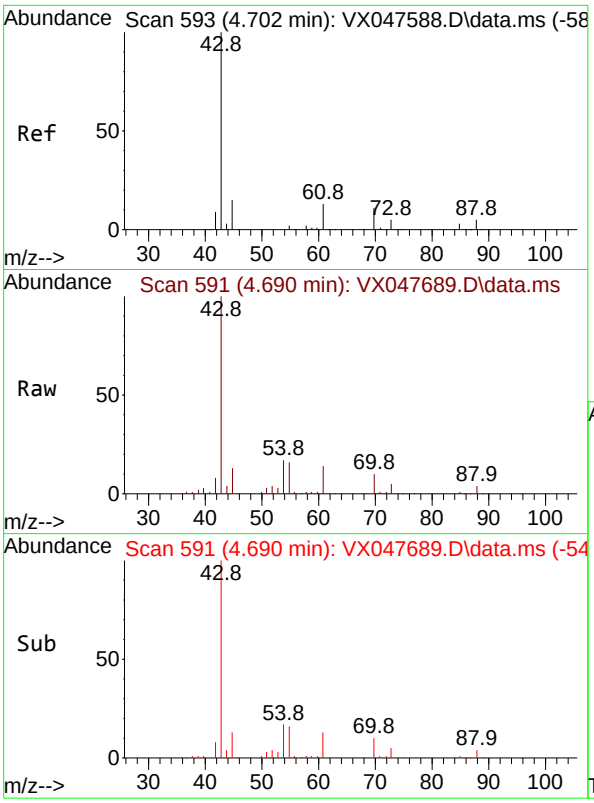


#36
1,1-Dichloropropene
Concen: 51.655 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 165531

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.7	50.1
77	30.8	24.3	36.5

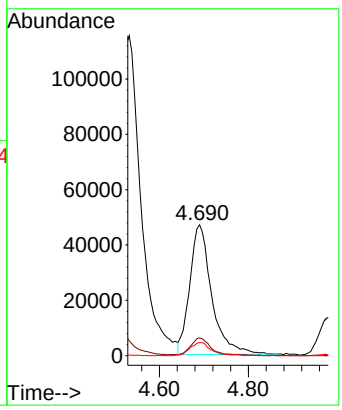




#37
Ethyl Acetate
Concen: 46.911 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 16095

Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.8	14.8
70	9.5	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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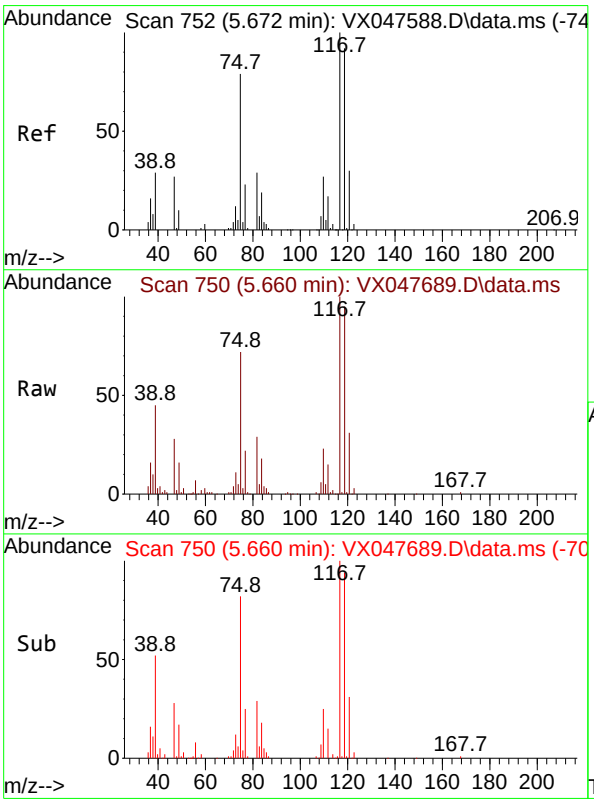
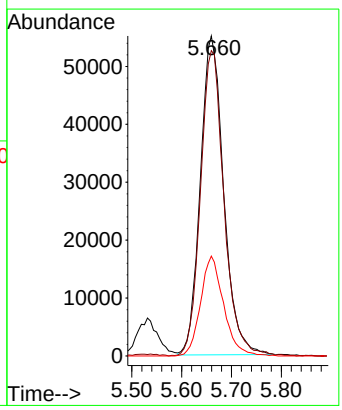
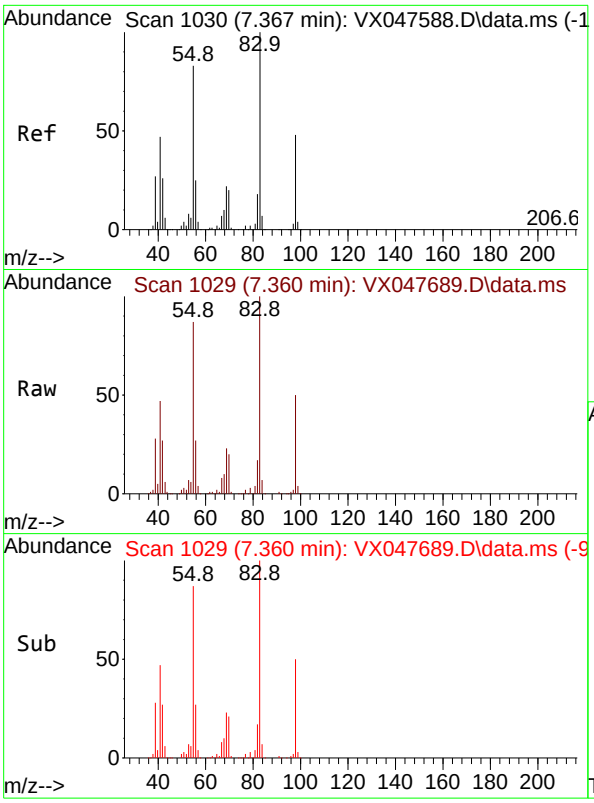


#38
Carbon Tetrachloride
Concen: 51.330 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:117 Resp: 178720

Ion	Ratio	Lower	Upper
117	100		
119	95.5	73.4	110.2
121	31.4	23.8	35.6





#39
Methylcyclohexane
Concen: 52.558 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 83 Resp: 19118

Ion	Ratio	Lower	Upper
83	100		
55	87.3	66.4	99.6
98	50.4	38.1	57.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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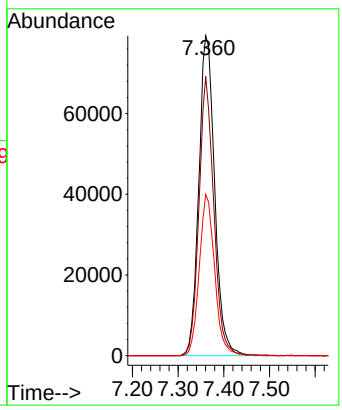
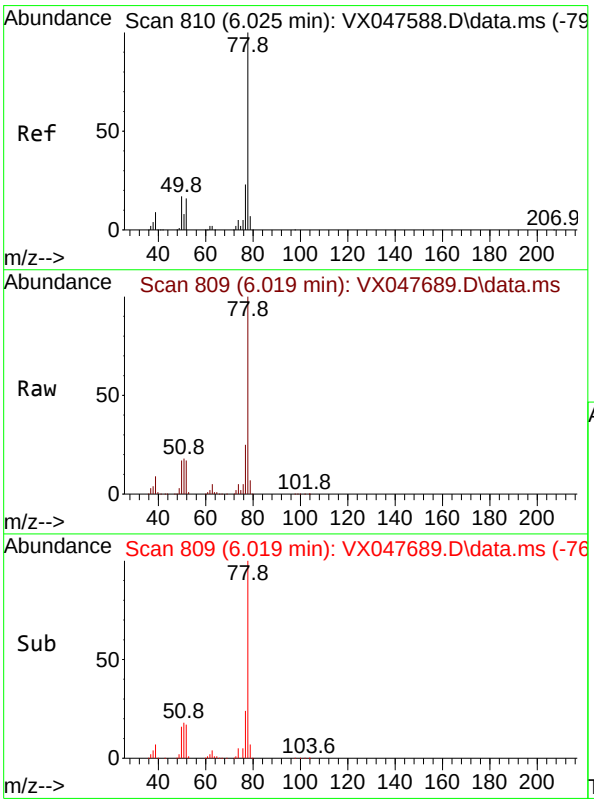
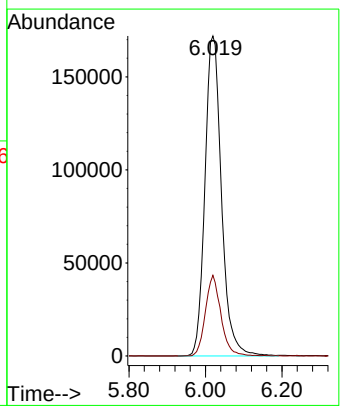


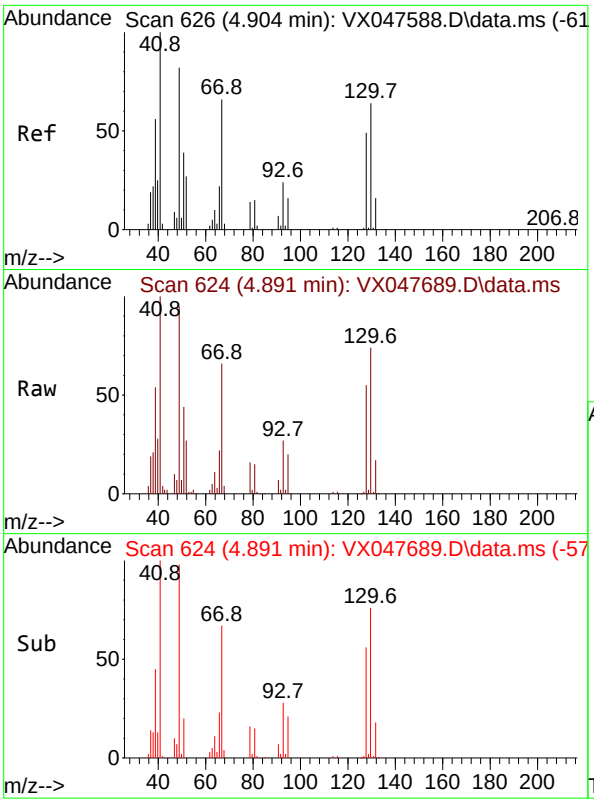


#40
Benzene
Concen: 53.017 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 78 Resp: 516015

Ion	Ratio	Lower	Upper
78	100		
77	25.2	18.8	28.2

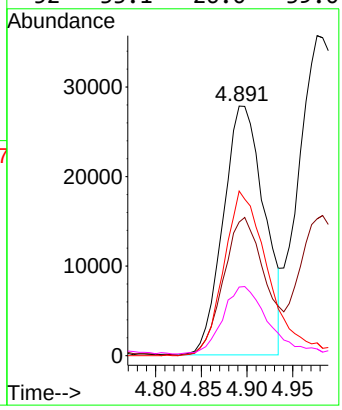




#41
Methacrylonitrile
Concen: 49.191 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 41 Resp: 8713

Ion	Ratio	Lower	Upper
41	100		
39	57.4	43.3	64.9
67	73.7	58.6	87.8
52	33.1	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
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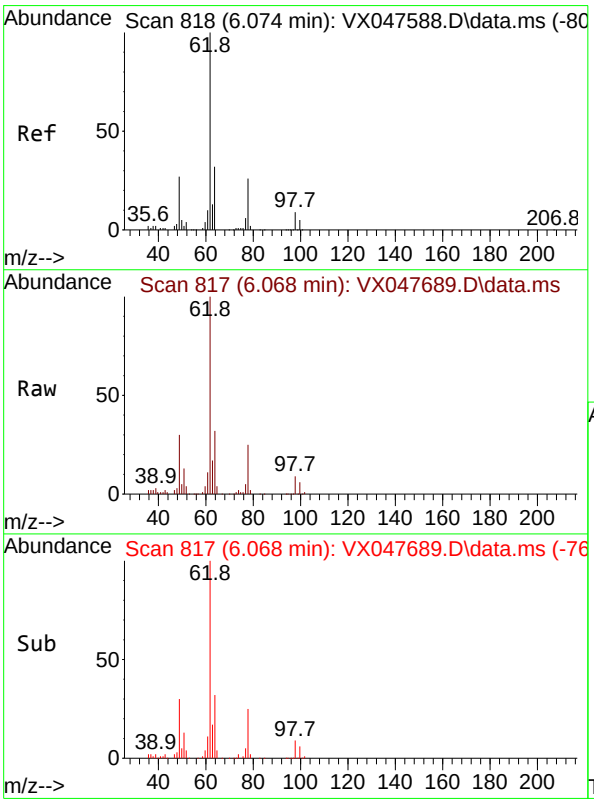
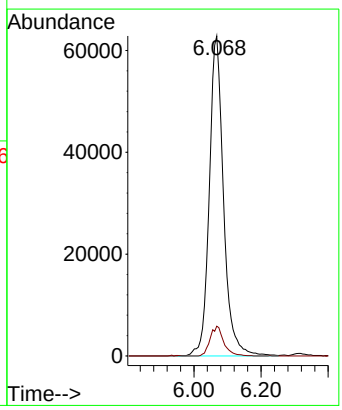
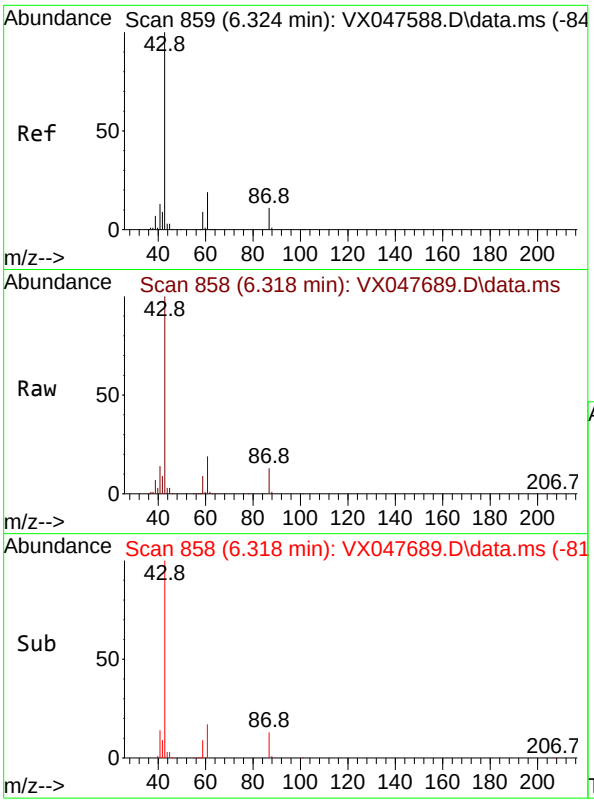


#42
1,2-Dichloroethane
Concen: 50.055 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 62 Resp: 185367

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.0





#43
Isopropyl Acetate
Concen: 48.067 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 27048

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.2	22.8
87	12.6	9.6	14.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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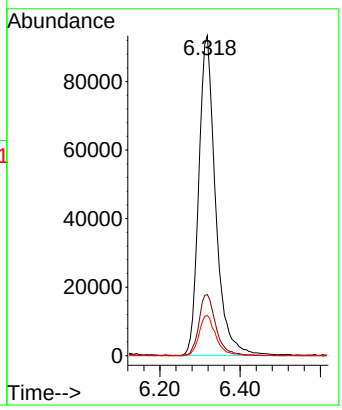
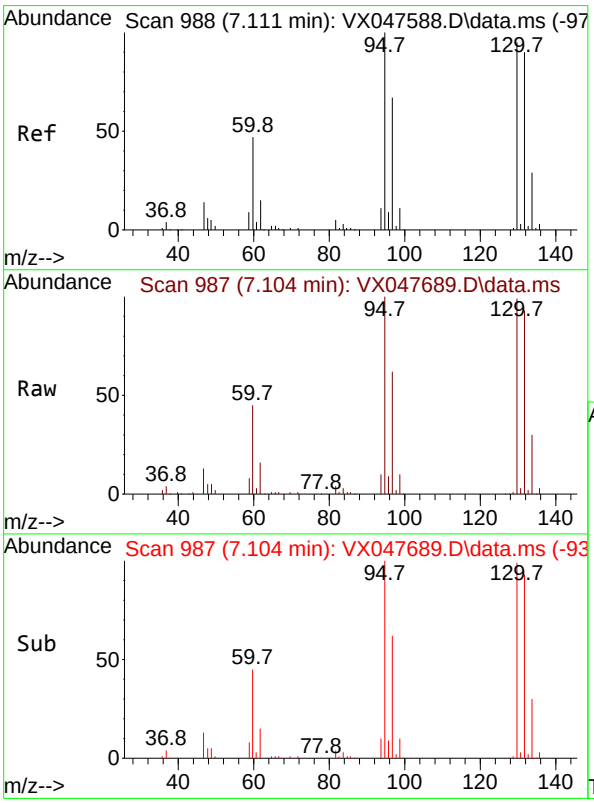
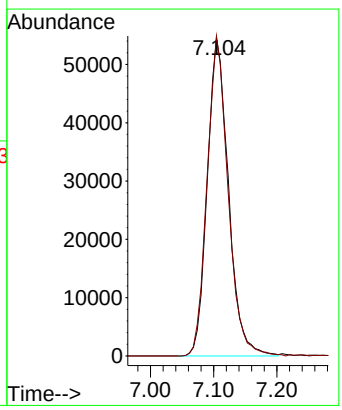


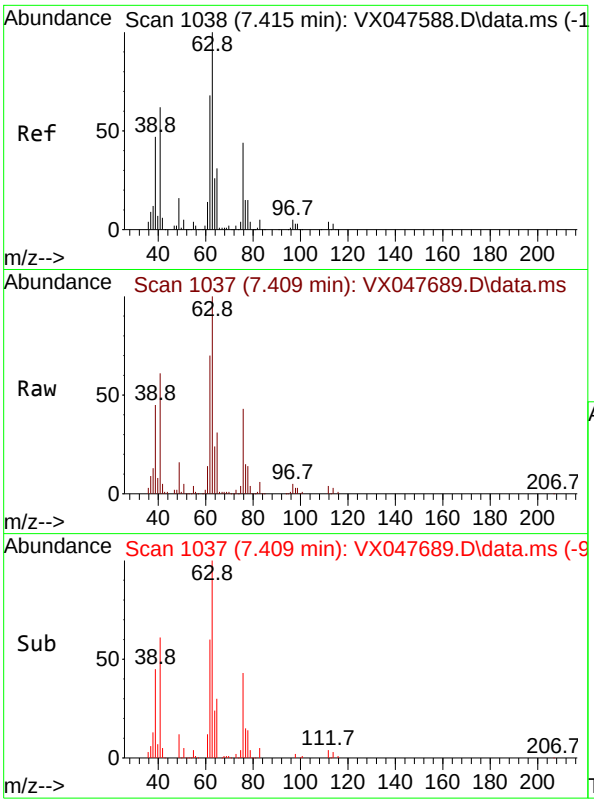


#44
Trichloroethene
Concen: 53.976 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:130 Resp: 127009

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	210.8

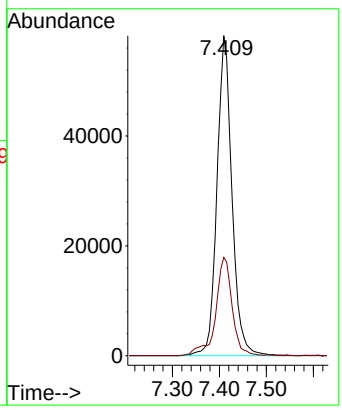




#45
1,2-Dichloropropane
Concen: 51.965 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 63 Resp: 12951

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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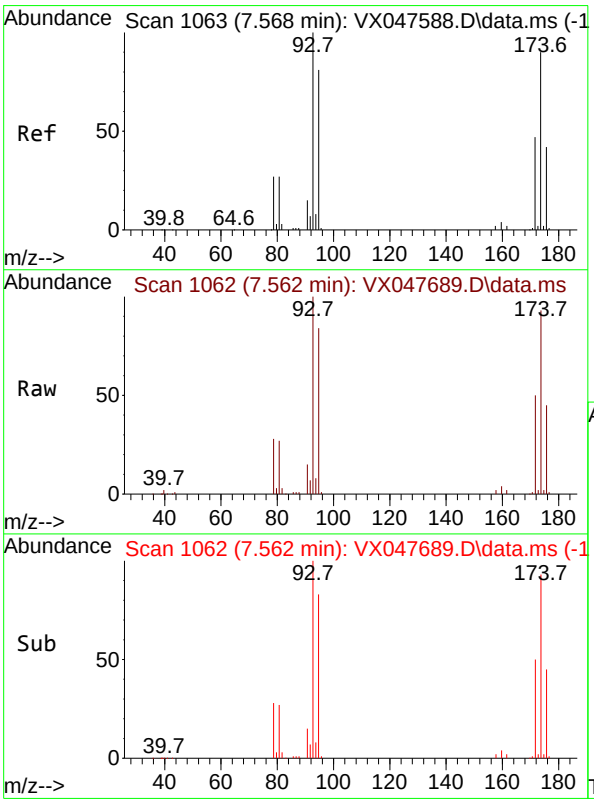
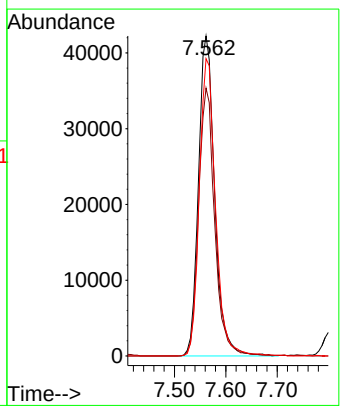
Supervised By :Mahesh Dadoda 09/24/2025

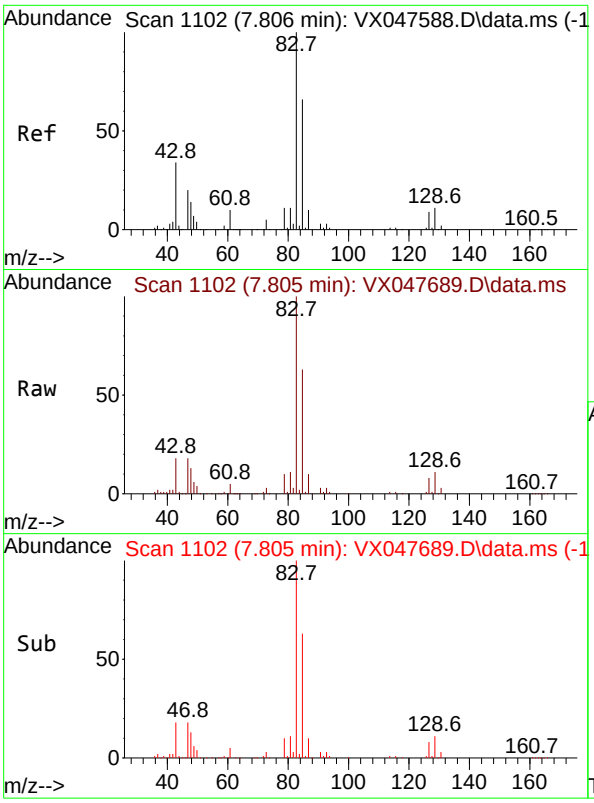


#46
Dibromomethane
Concen: 50.950 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 93 Resp: 92404

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.0	97.6
174	92.9	71.6	107.4

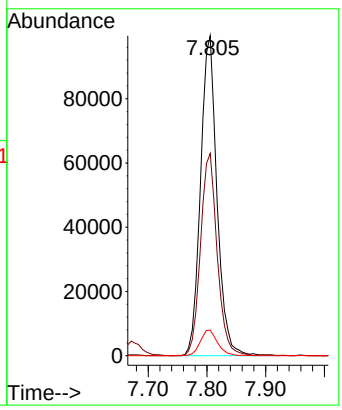




#47
Bromodichloromethane
Concen: 51.822 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 83 Resp: 19394

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.5	78.7
127	8.0	6.9	10.3



Instrument :
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ClientSampleId :
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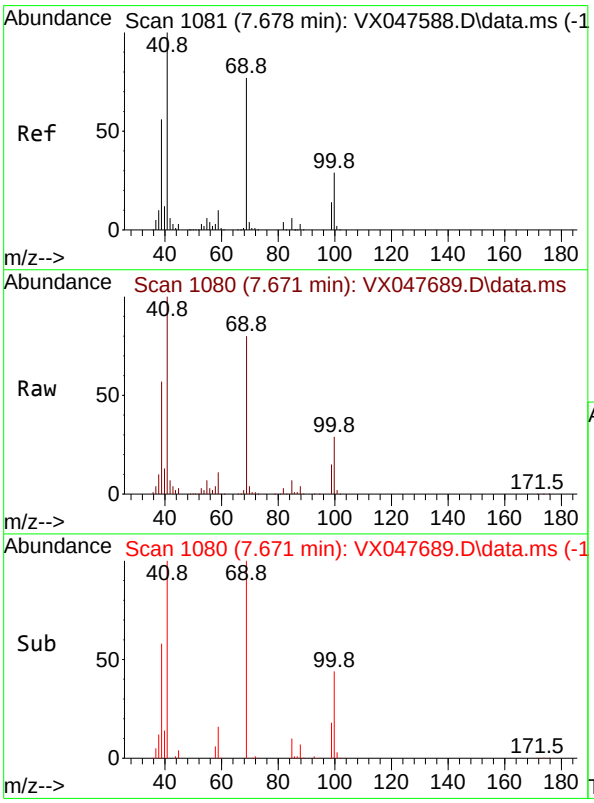
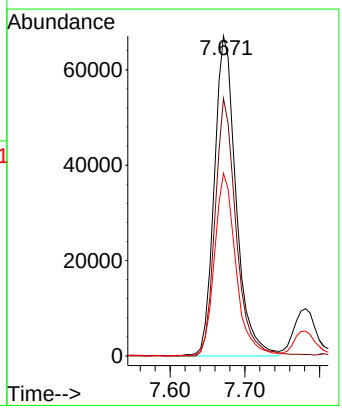
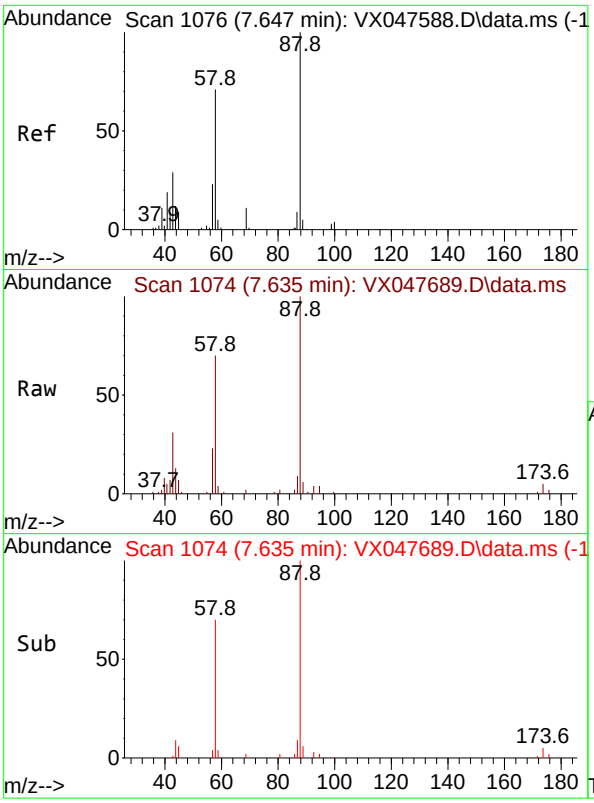


#48
Methyl methacrylate
Concen: 48.497 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 41 Resp: 135938

Ion	Ratio	Lower	Upper
41	100		
69	77.8	61.4	92.2
39	56.3	45.8	68.6

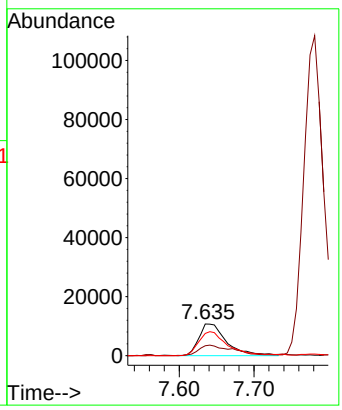




#49
1,4-Dioxane
Concen: 983.820 ug/l
RT: 7.635 min Scan# 1
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 88 Resp: 2786

Ion	Ratio	Lower	Upper
88	100		
43	41.5	30.2	45.2
58	80.3	59.5	89.3



Instrument :
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ClientSampleId :
VSTDCCC050

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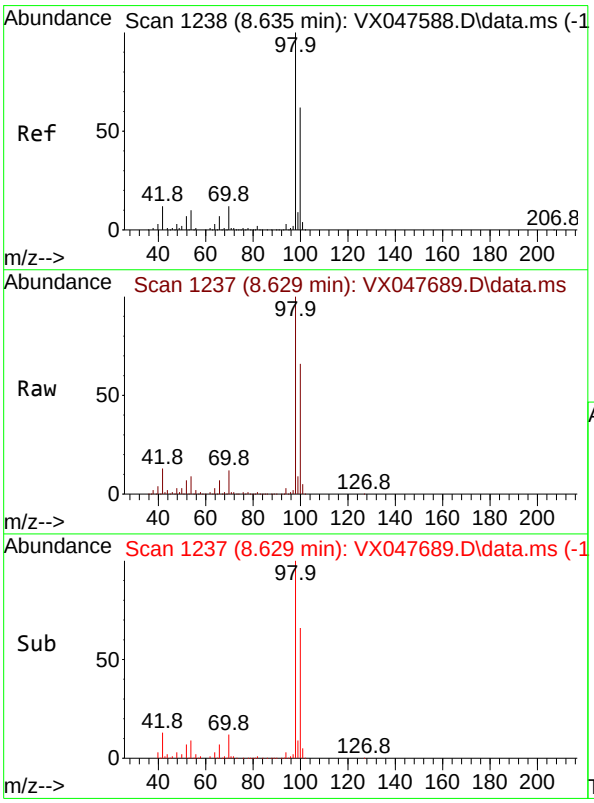
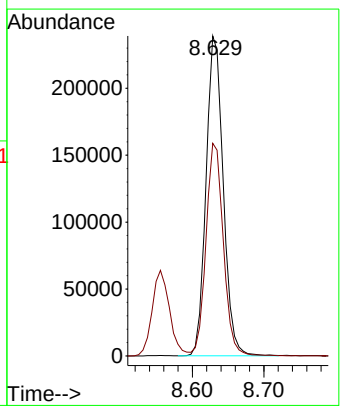
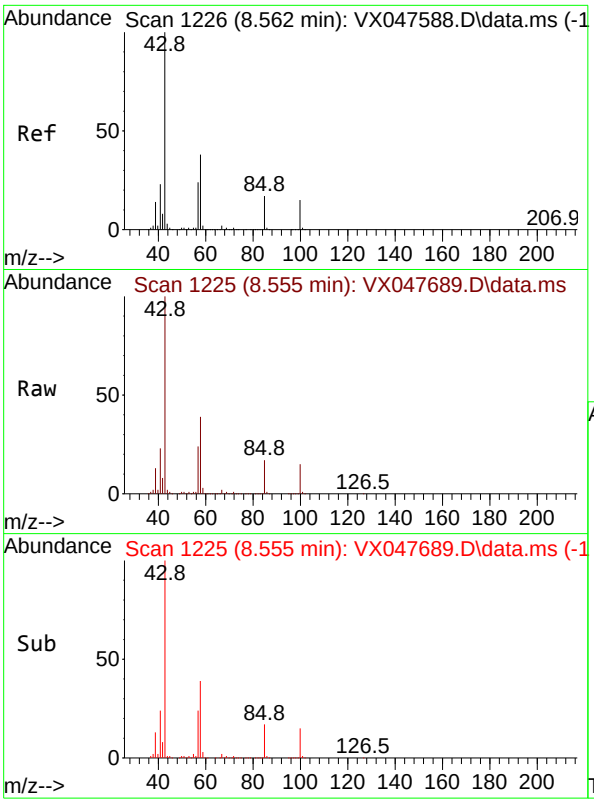


#50
Toluene-d8
Concen: 52.523 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 98 Resp: 398559

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4

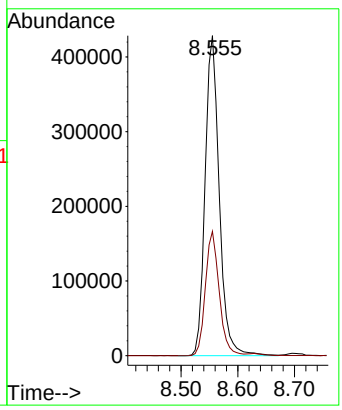




#51
4-Methyl-2-Pentanone
Concen: 237.947 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 74239

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



Instrument :
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ClientSampleId :
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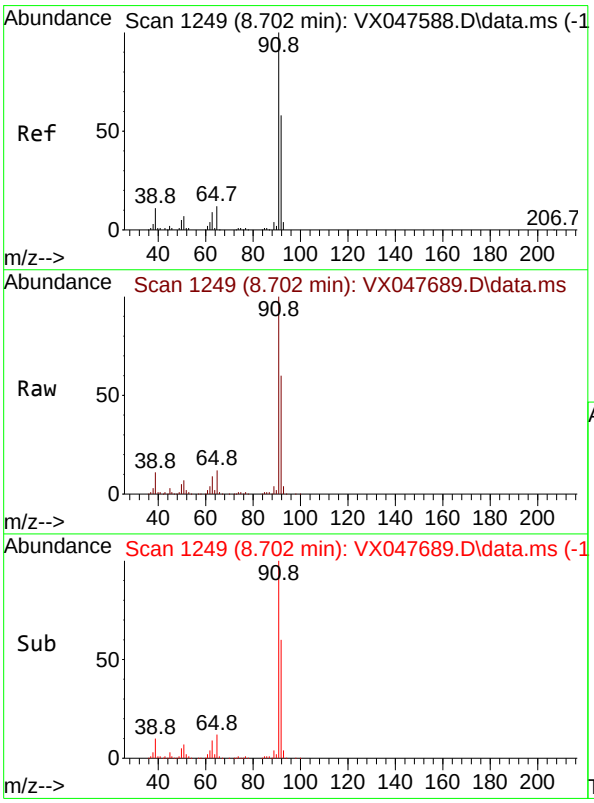
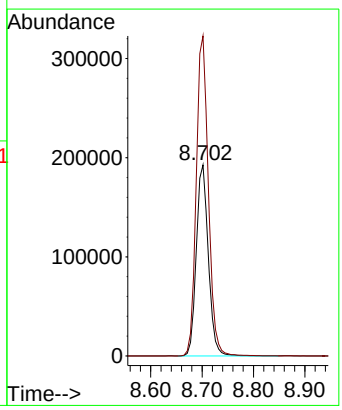
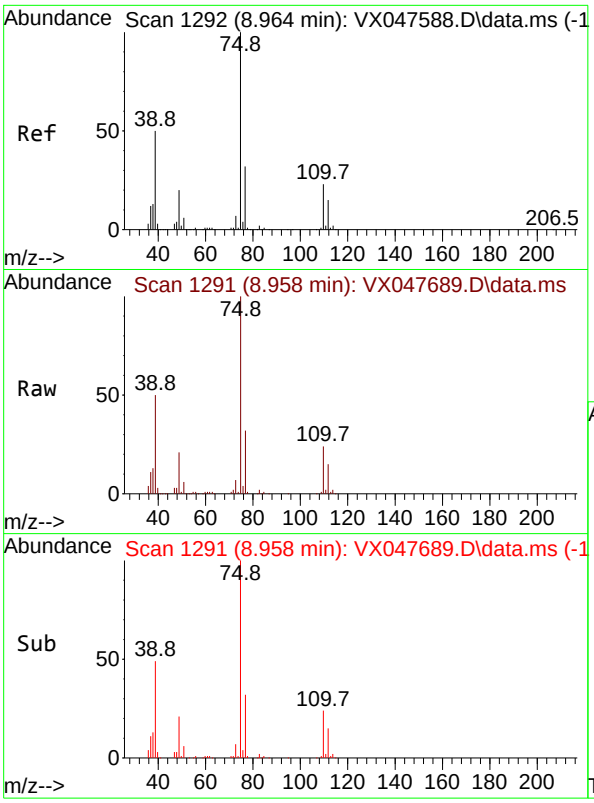


#52
Toluene
Concen: 52.243 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 92 Resp: 313273

Ion	Ratio	Lower	Upper
92	100		
91	168.4	137.1	205.7

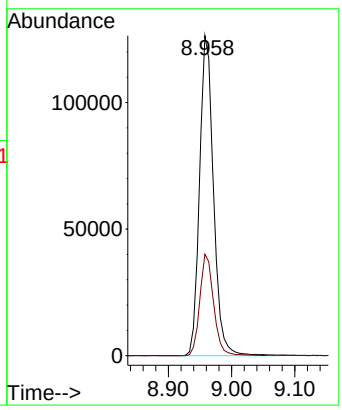




#53
t-1,3-Dichloropropene
Concen: 50.900 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 19430

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2



Instrument :
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ClientSampleId :
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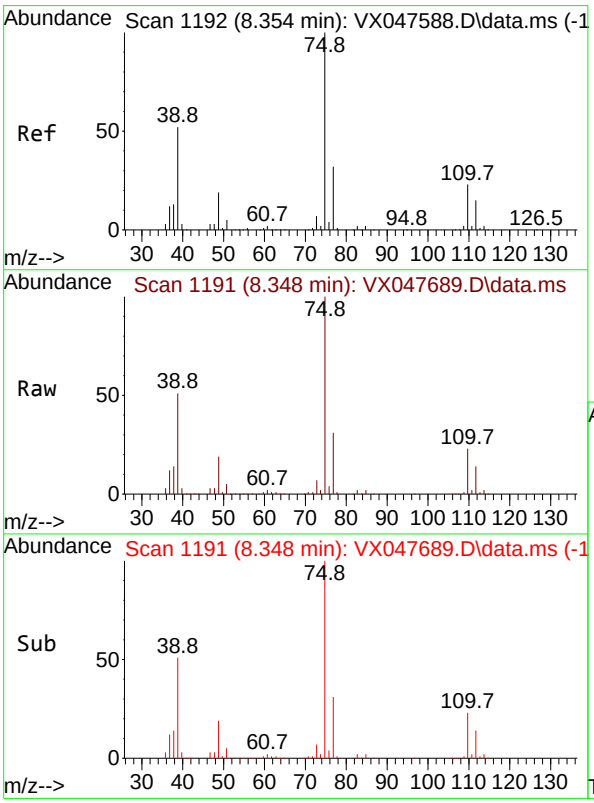
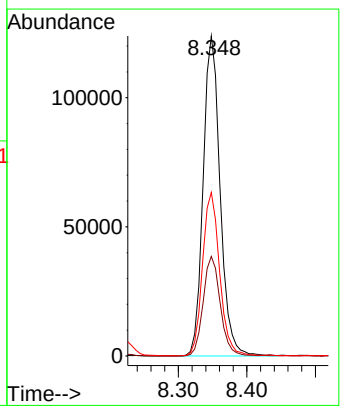
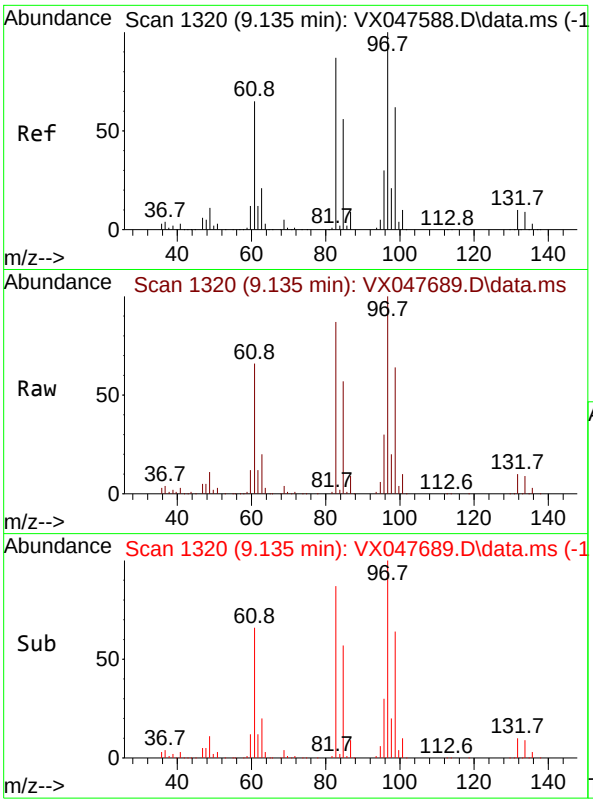


#54
cis-1,3-Dichloropropene
Concen: 52.459 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 214043

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.8	38.6
39	50.5	41.4	62.2

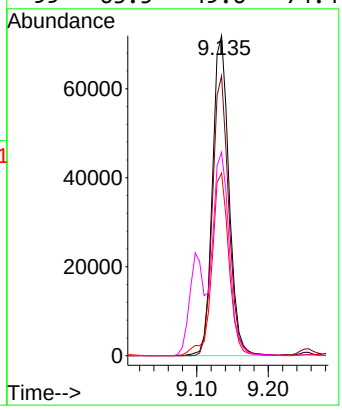




#55
1,1,2-Trichloroethane
Concen: 49.721 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 97 Resp: 11496

Ion	Ratio	Lower	Upper
97	100		
83	87.4	69.6	104.4
85	57.0	45.0	67.6
99	63.5	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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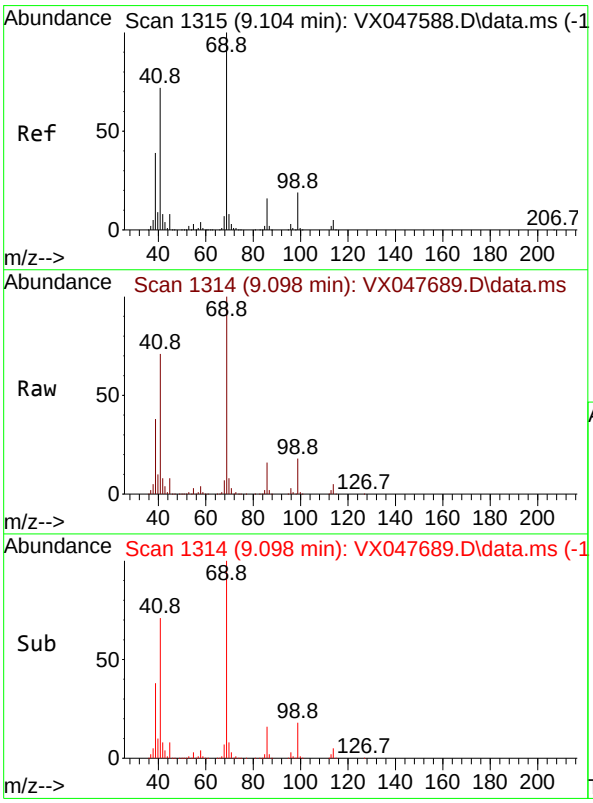
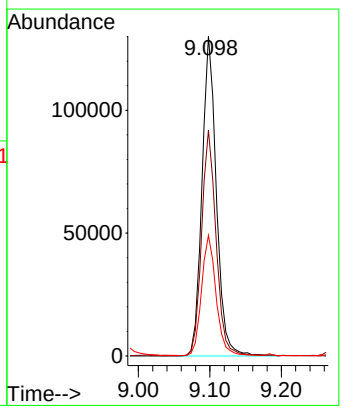
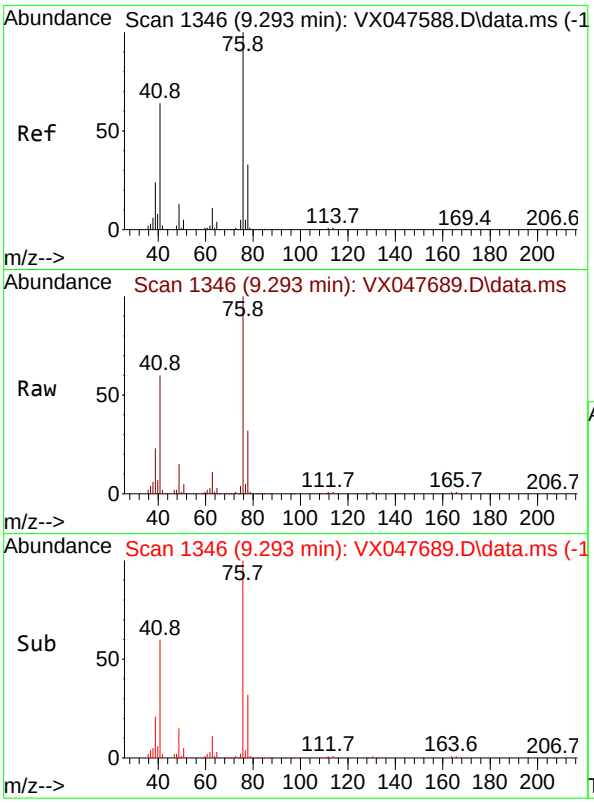


#56
Ethyl methacrylate
Concen: 50.070 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 69 Resp: 181815

Ion	Ratio	Lower	Upper
69	100		
41	71.1	58.6	87.8
39	37.9	31.5	47.3

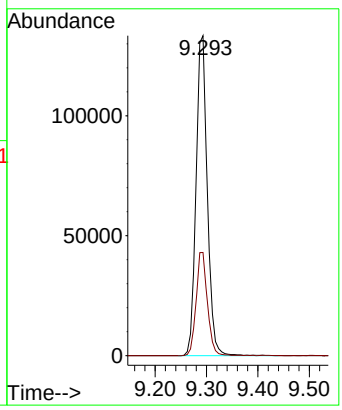




#57
1,3-Dichloropropane
Concen: 51.053 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 76 Resp: 20278

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4



Instrument :
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ClientSampleId :
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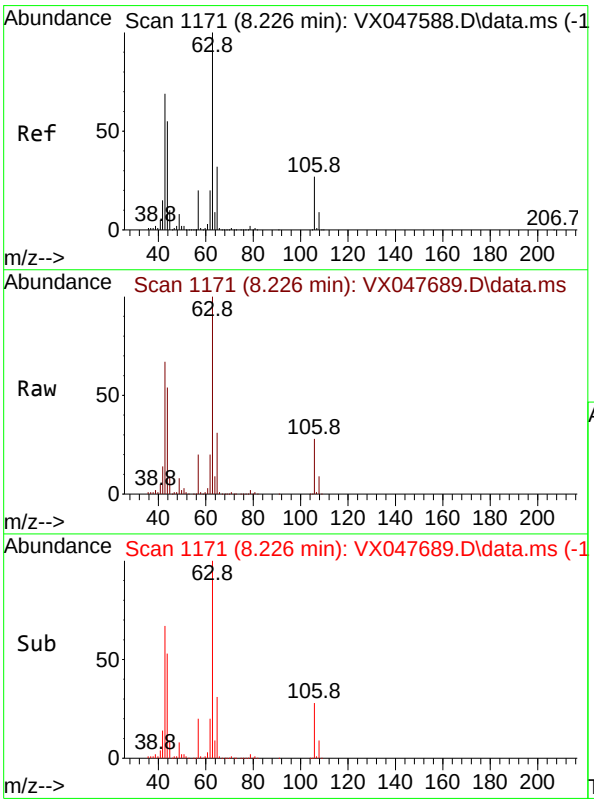
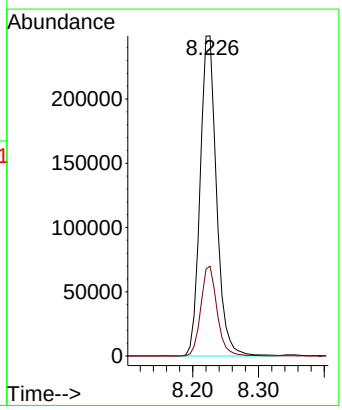
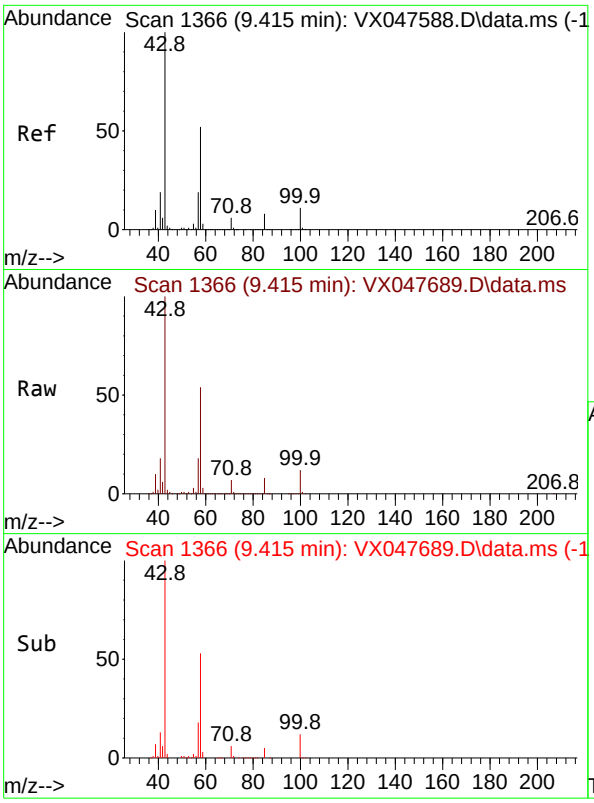


#58
2-Chloroethyl Vinyl ether
Concen: 249.751 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 63 Resp: 433231

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.9	32.9





#59
2-Hexanone
Concen: 227.437 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 50964

Ion	Ratio	Lower	Upper
43	100		
58	53.1	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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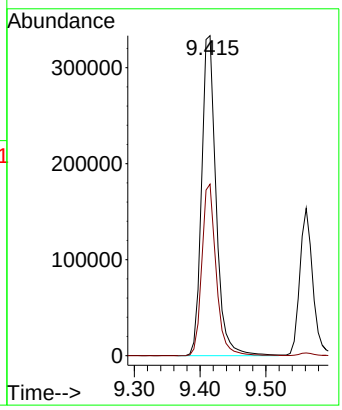
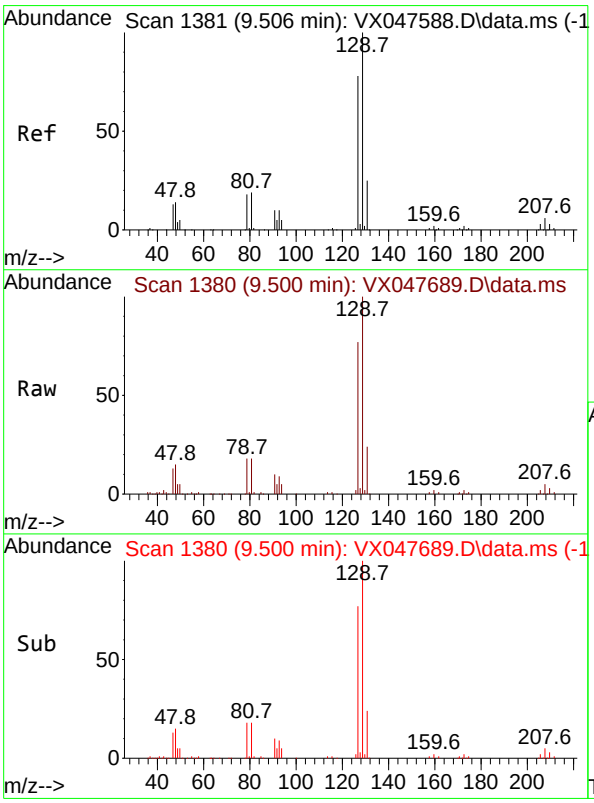
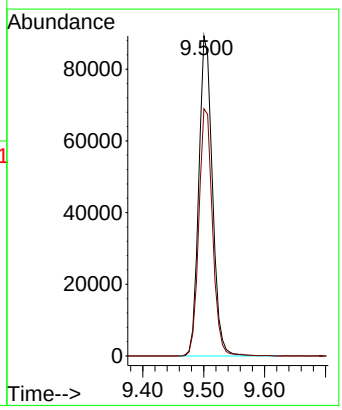


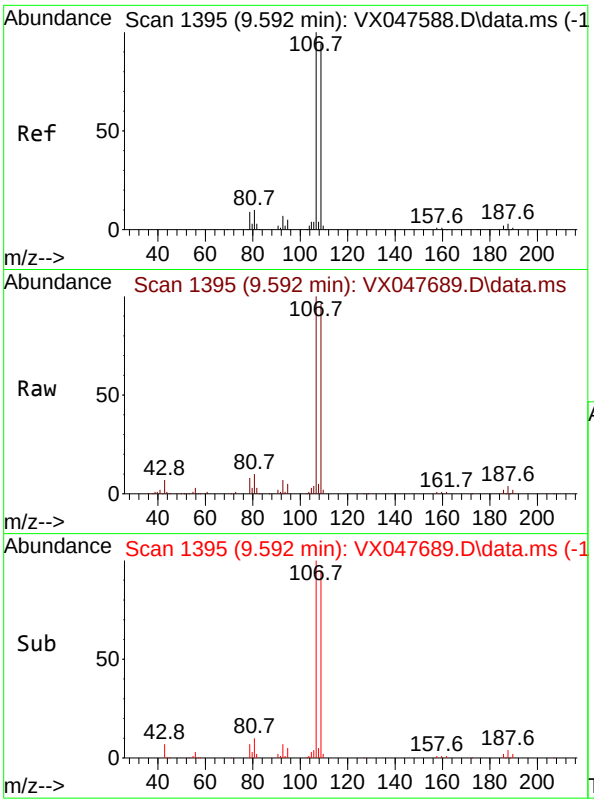


#60
Dibromochloromethane
Concen: 51.886 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:129 Resp: 138233

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.4	115.2

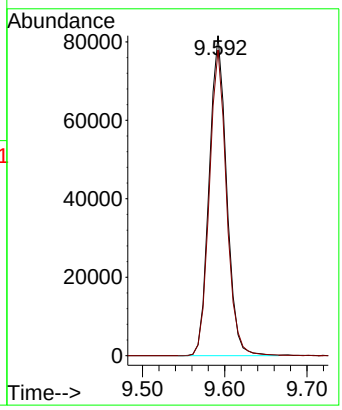




#61
1,2-Dibromoethane
Concen: 51.062 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:107 Resp: 12025

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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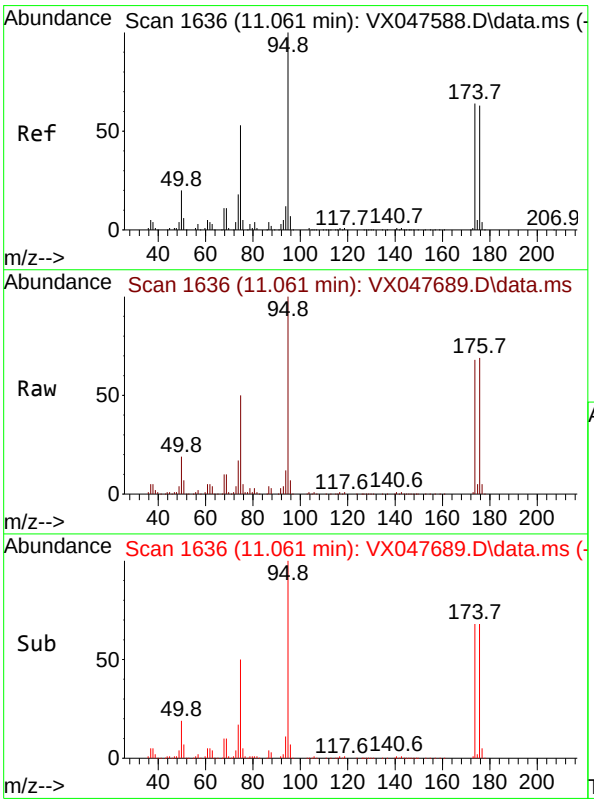
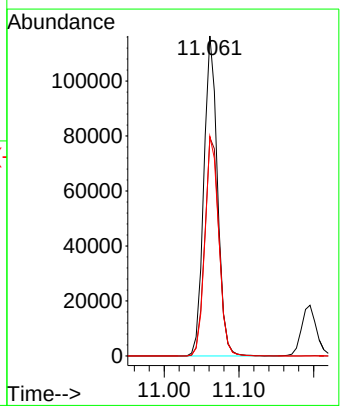
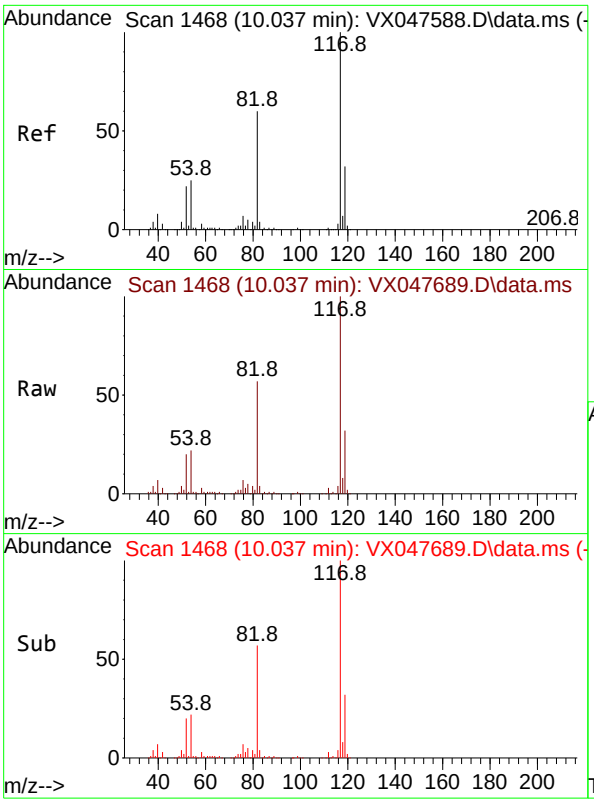


#62
4-Bromofluorobenzene
Concen: 51.184 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 95 Resp: 147405

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	141.6
176	69.5	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:117 Resp: 28223

Ion	Ratio	Lower	Upper
117	100		
82	56.6	47.8	71.6
119	32.5	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
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Manual Integrations
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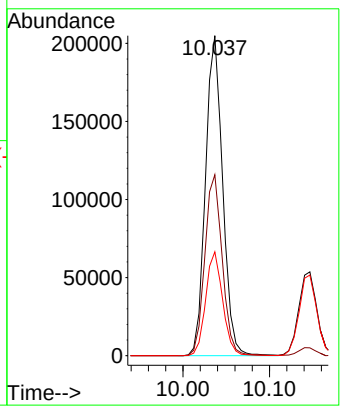
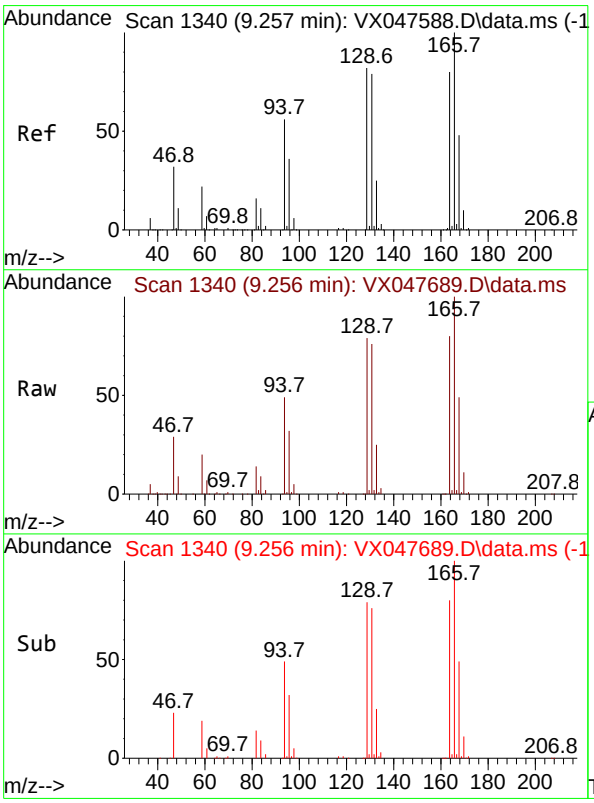
Supervised By :Mahesh Dadoda 09/24/2025

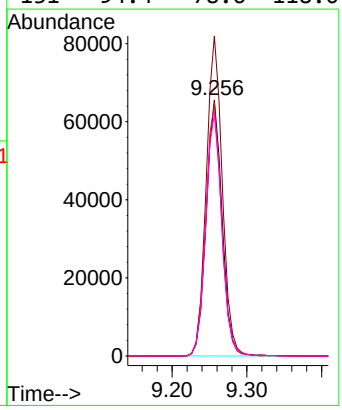


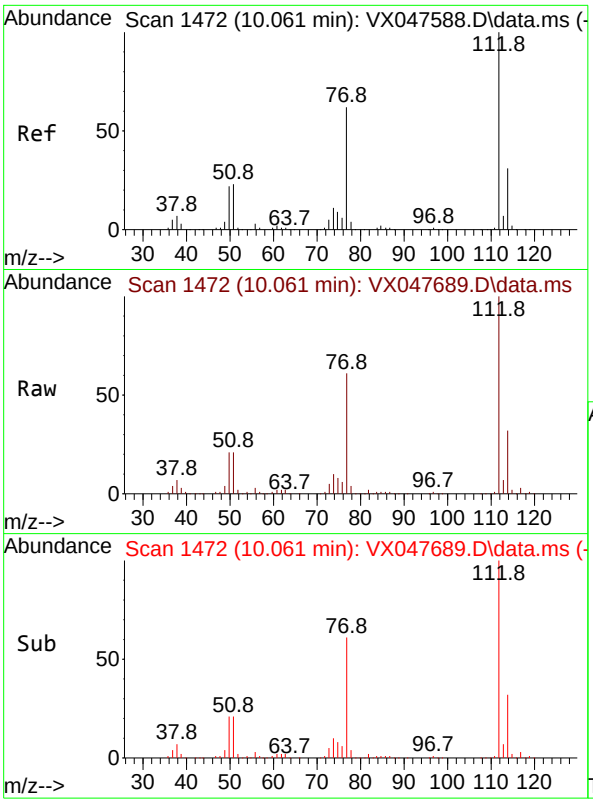


#64
Tetrachloroethene
Concen: 52.674 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:164 Resp: 96914

Ion	Ratio	Lower	Upper
164	100		
166	125.0	100.2	150.2
129	98.5	81.8	122.6
131	94.4	78.6	118.0

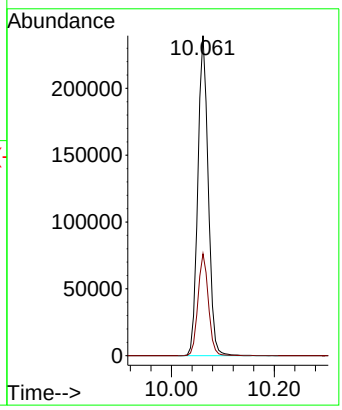




#65
Chlorobenzene
Concen: 52.373 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:112 Resp: 33581

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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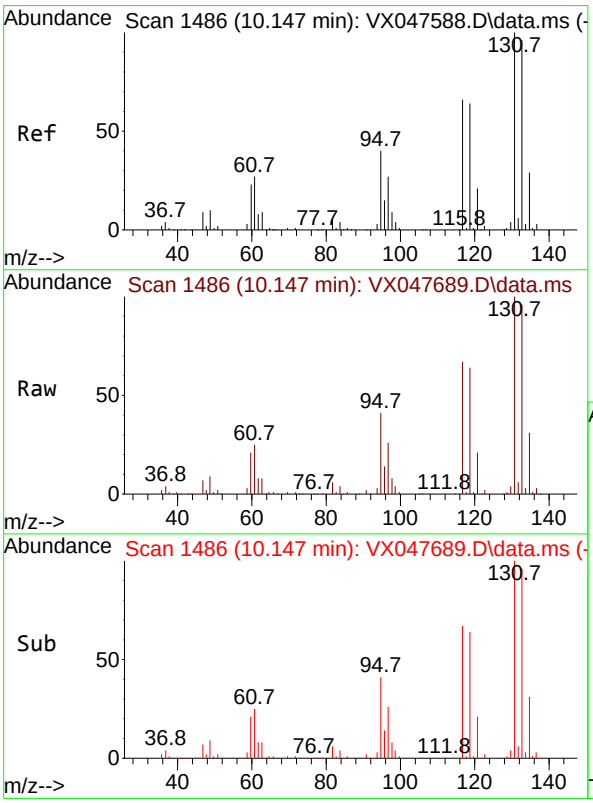
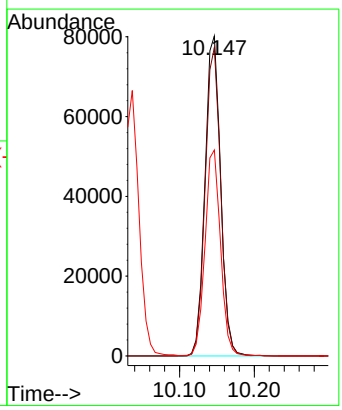
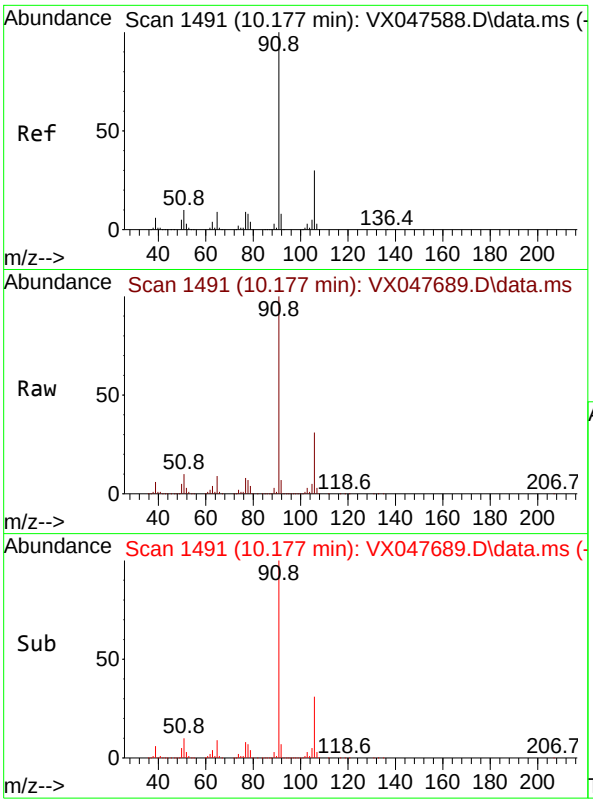


#66
1,1,1,2-Tetrachloroethane
Concen: 52.773 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:131 Resp: 116763

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	142.0
119	63.9	32.0	96.0





#67
Ethyl Benzene
Concen: 52.587 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 91 Resp: 58177

Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.3	36.5

Instrument :
MSVOA_X
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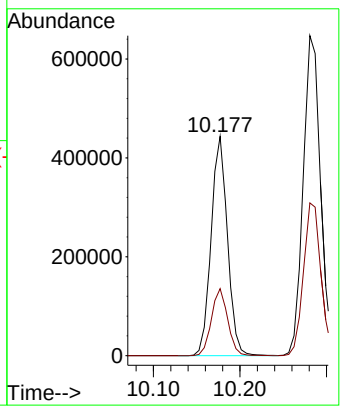
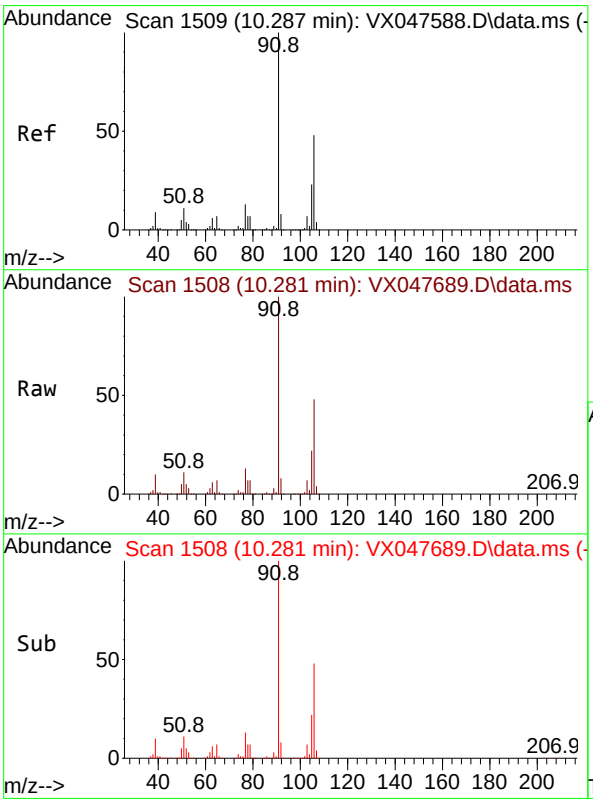
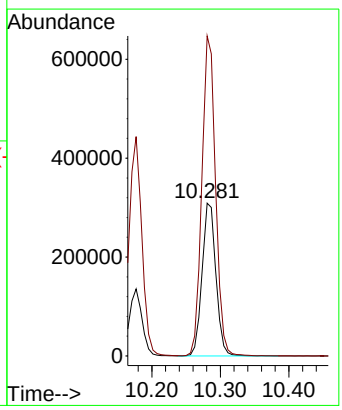


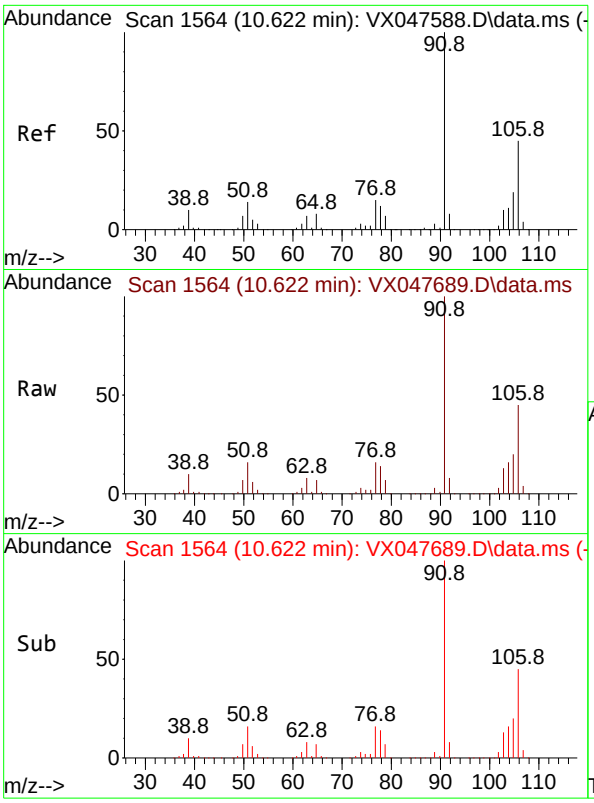


#68
m/p-Xylenes
Concen: 105.410 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:106 Resp: 434058

Ion	Ratio	Lower	Upper
106	100		
91	207.6	167.8	251.8

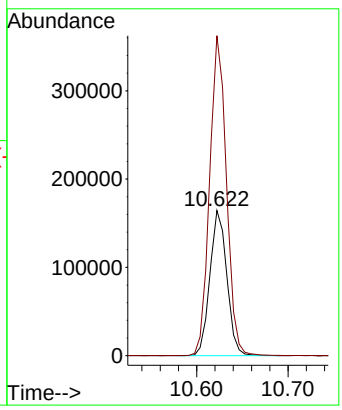




#69
o-Xylene
Concen: 53.057 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:106 Resp: 21132

Ion	Ratio	Lower	Upper
106	100		
91	218.6	111.1	333.4



Instrument :
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ClientSampleId :
VSTDCCC050

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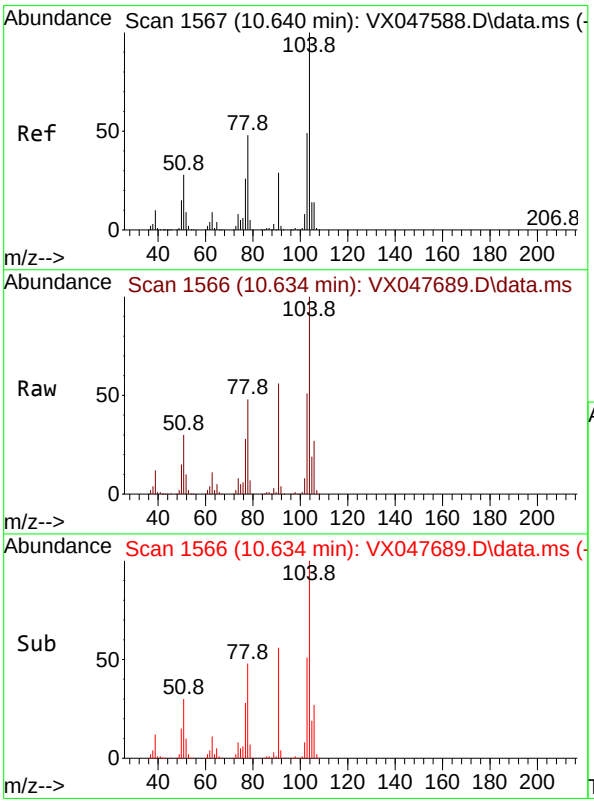
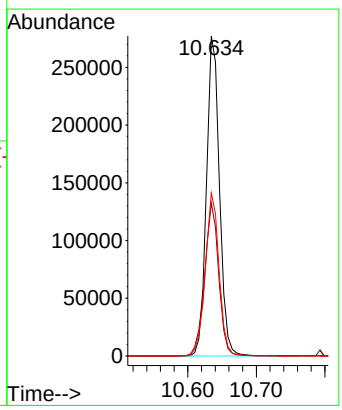
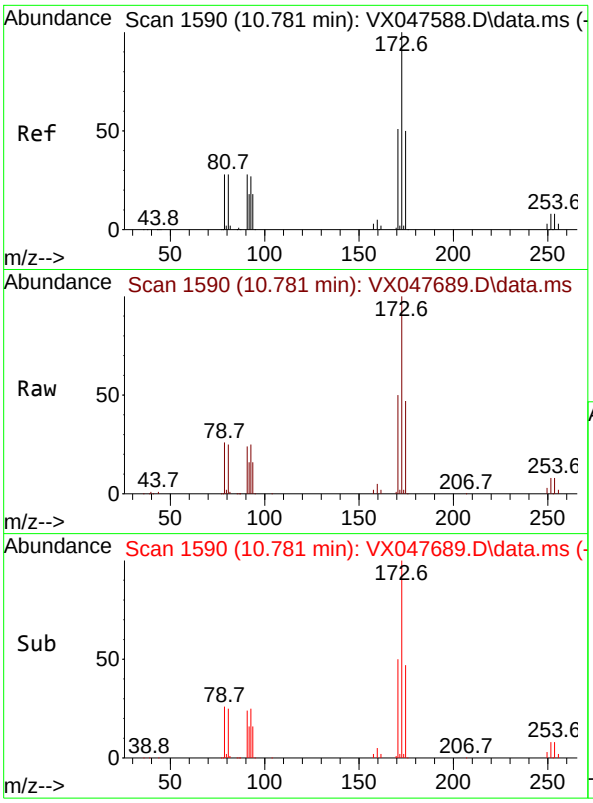


#70
Styrene
Concen: 52.550 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:104 Resp: 366737

Ion	Ratio	Lower	Upper
104	100		
78	51.7	43.1	64.7
103	53.9	43.1	64.7

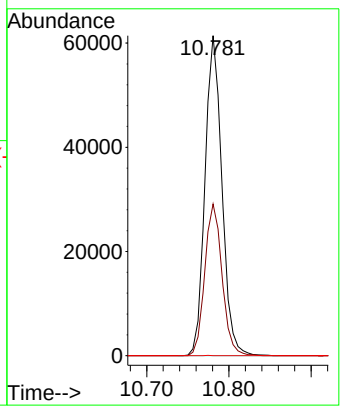




#71
Bromoform
Concen: 53.124 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:173 Resp: 8776

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.9	74.6
254	0.0	0.1	0.1



Instrument :
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ClientSampleId :
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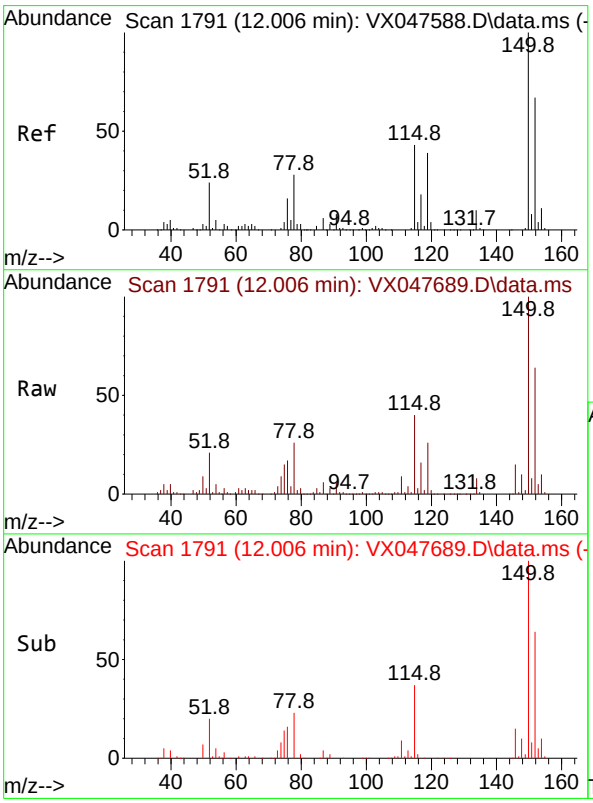
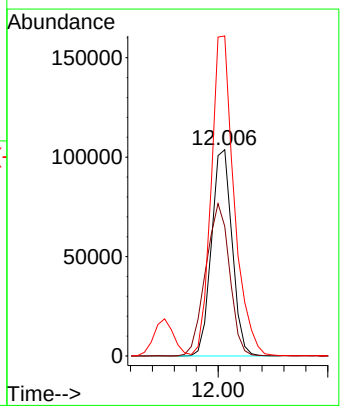
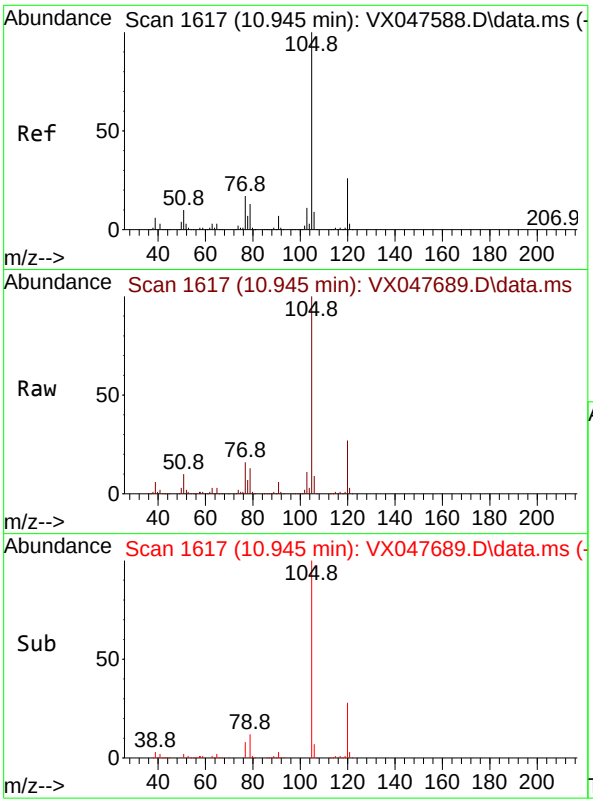


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:152 Resp: 135594

Ion	Ratio	Lower	Upper
152	100		
115	85.7	44.9	134.5
150	172.0	0.0	352.0

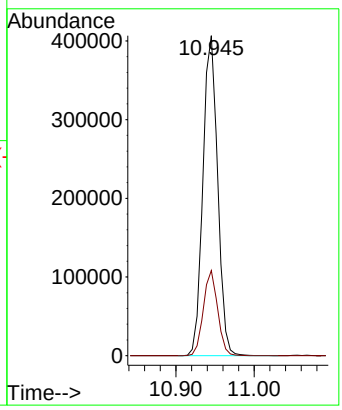




#73
Isopropylbenzene
Concen: 51.399 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:105 Resp: 52986

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.4



Instrument :
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ClientSampleId :
VSTDCCC050

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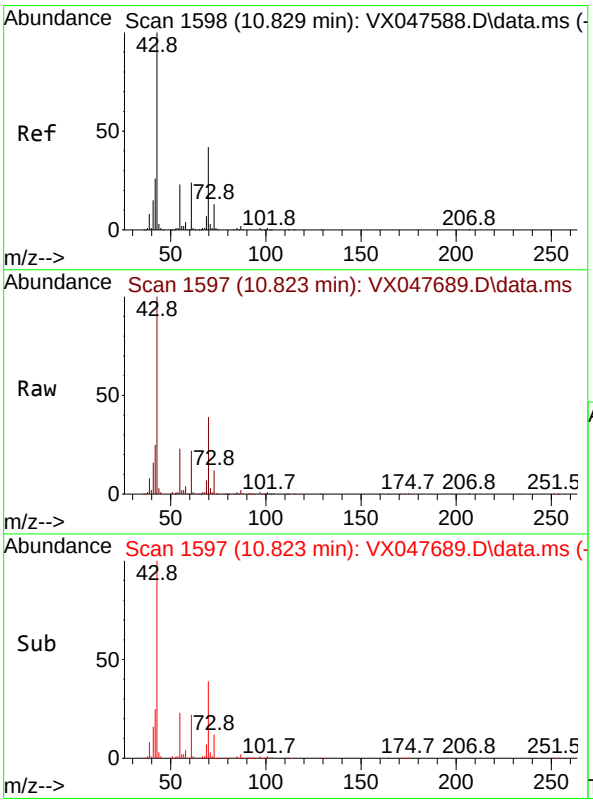
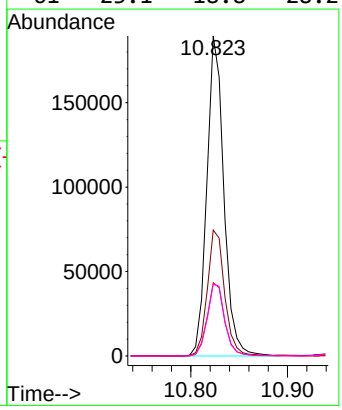
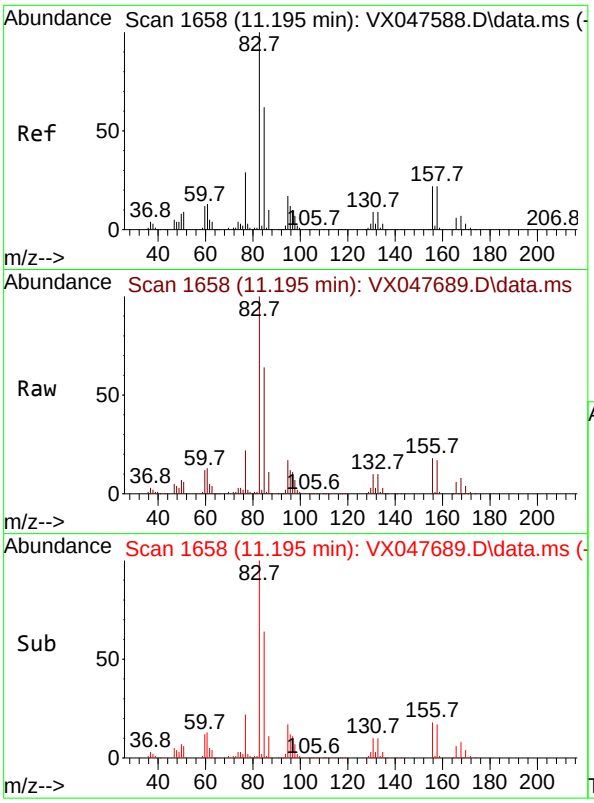


#74
N-amyl acetate
Concen: 49.332 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 231908

Ion	Ratio	Lower	Upper
43	100		
70	40.4	32.0	48.0
55	23.6	18.9	28.3
61	23.1	18.8	28.2

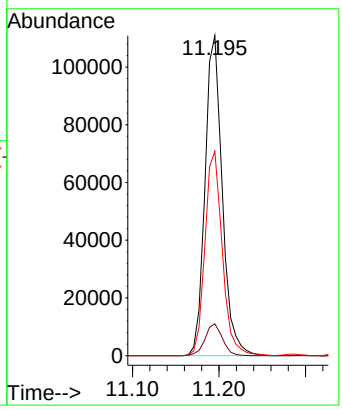




#75
1,1,2,2-Tetrachloroethane
Concen: 49.211 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 83 Resp: 15348

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	64.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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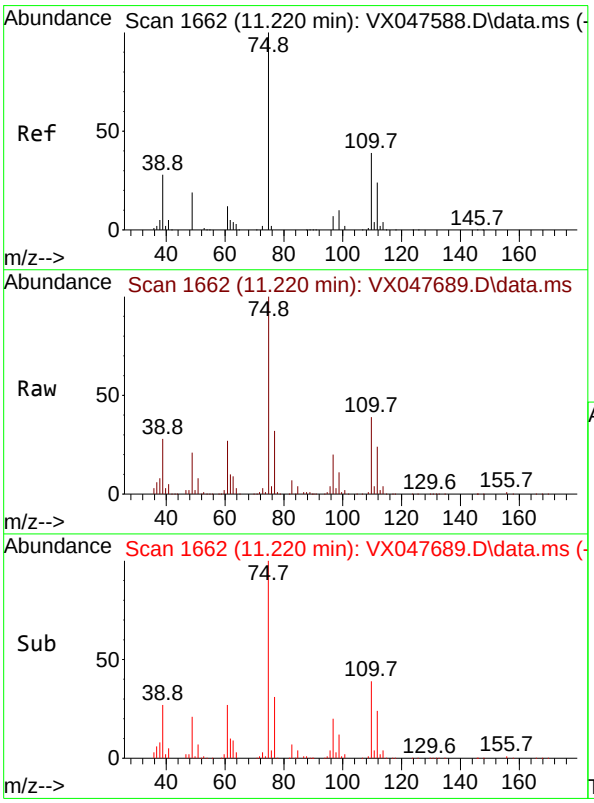
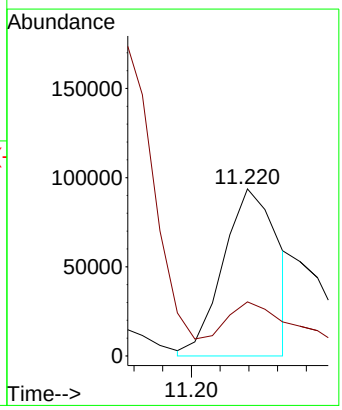
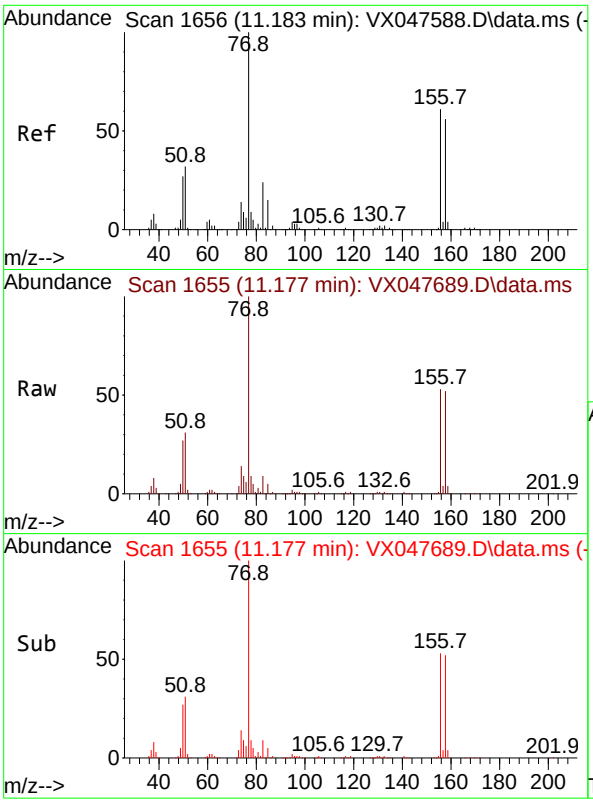


#76
1,2,3-Trichloropropane
Concen: 45.328 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 124442

Ion	Ratio	Lower	Upper
75	100		
77	44.6	18.8	56.4

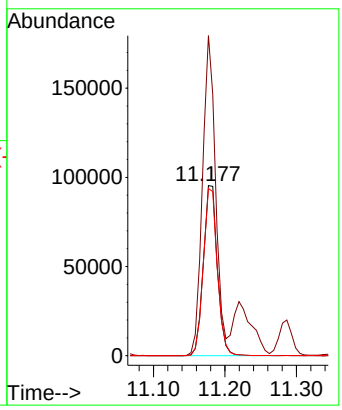




#77
Bromobenzene
Concen: 51.207 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:156 Resp: 13001

Ion	Ratio	Lower	Upper
156	100		
77	175.2	89.7	269.1
158	98.1	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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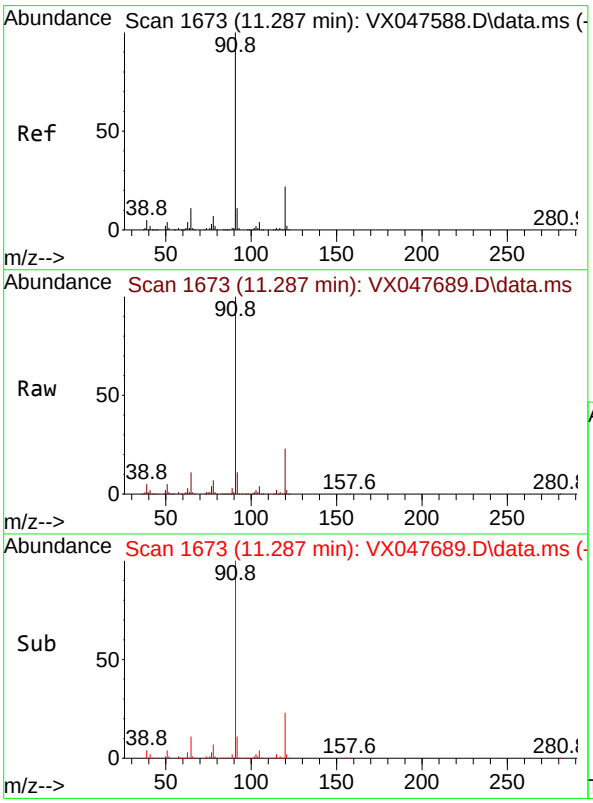
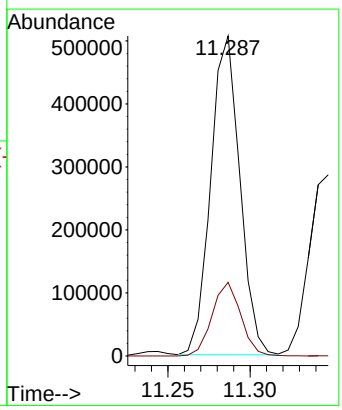
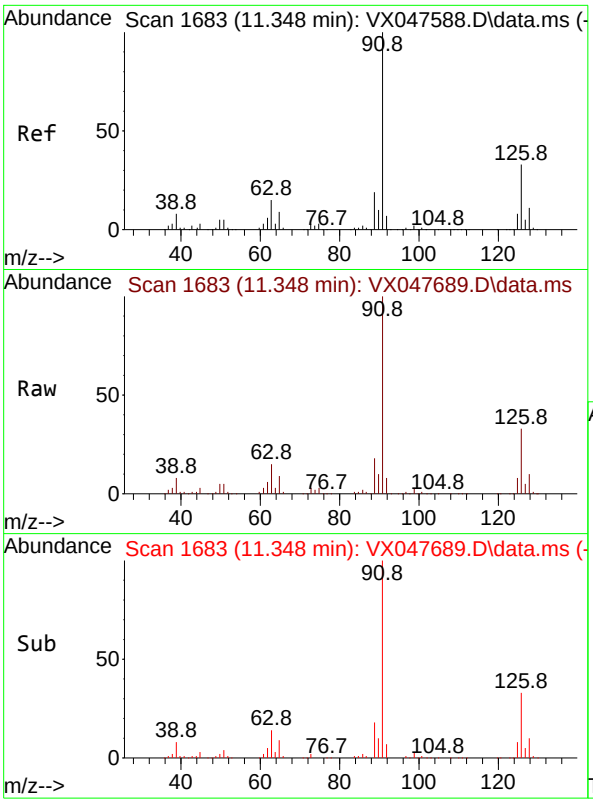


#78
n-propylbenzene
Concen: 51.190 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 91 Resp: 623815

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.1





#79
2-Chlorotoluene
Concen: 50.962 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 91 Resp: 38036

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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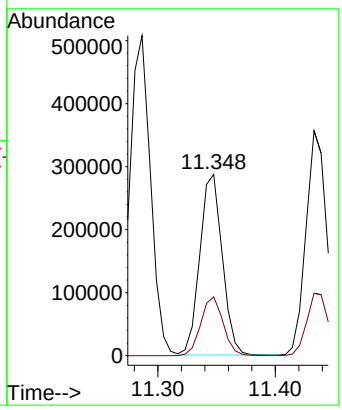
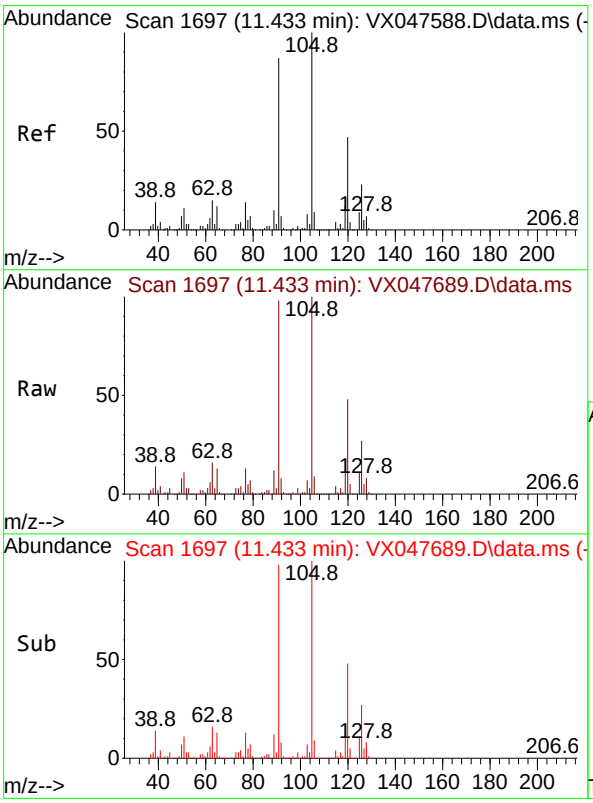
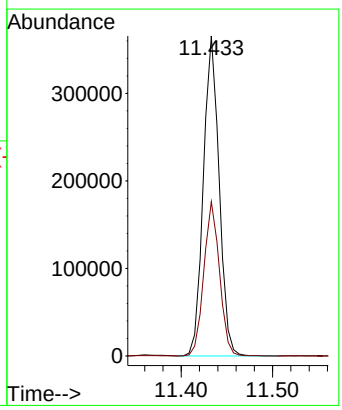


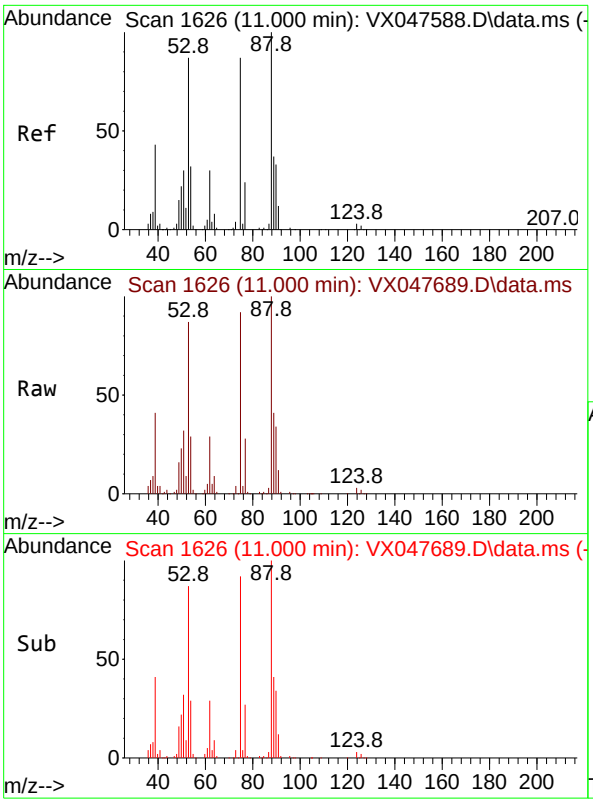


#80
1,3,5-Trimethylbenzene
Concen: 51.525 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:105 Resp: 436393

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.6	70.8

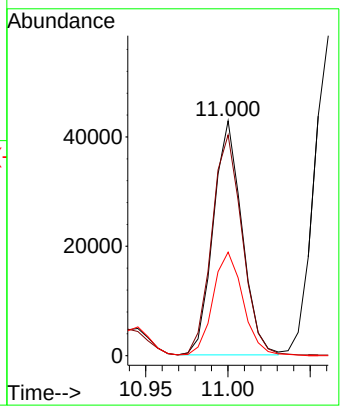




#81
trans-1,4-Dichloro-2-butene
Concen: 48.334 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 5203

Ion	Ratio	Lower	Upper
75	100		
53	99.6	83.4	125.2
89	46.6	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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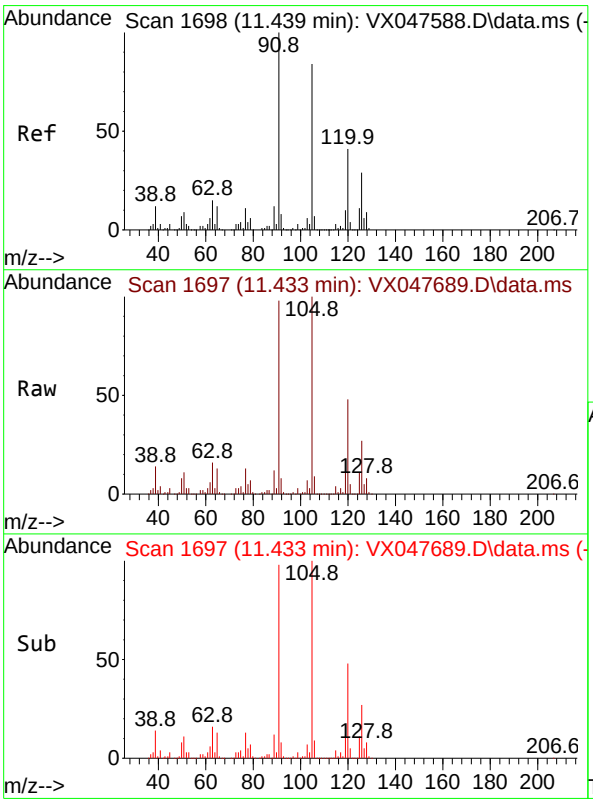
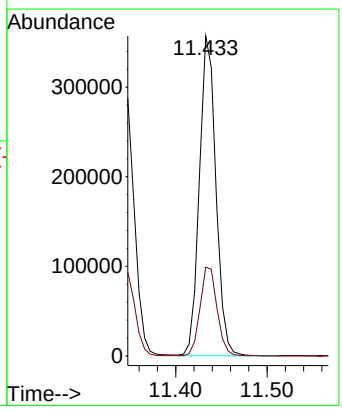
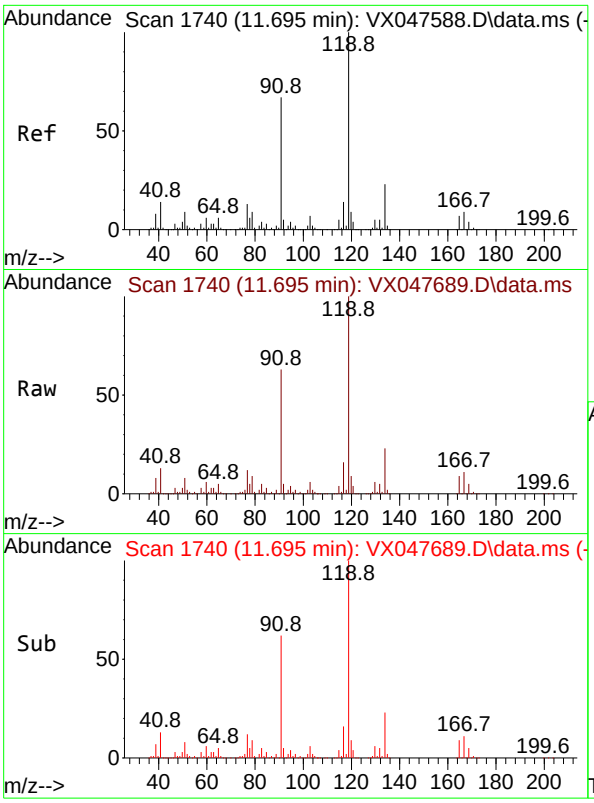


#82
4-Chlorotoluene
Concen: 50.709 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 91 Resp: 447005

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6

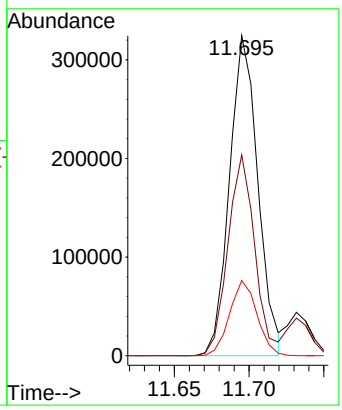




#83
tert-Butylbenzene
Concen: 49.469 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

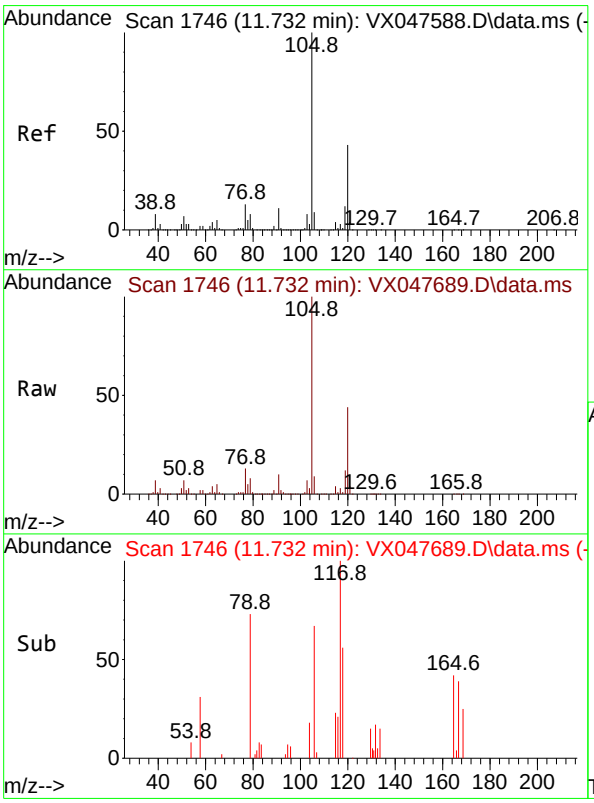
Tgt Ion:119 Resp: 42890

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.6	88.8
134	22.7	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

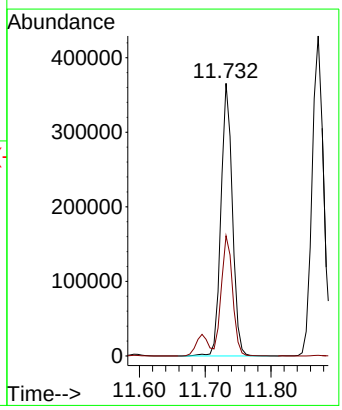
Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

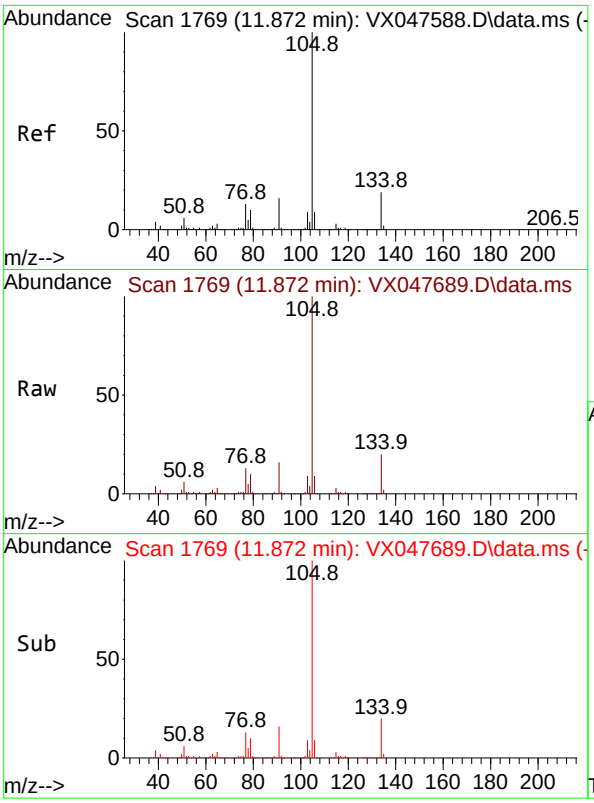


#84
1,2,4-Trimethylbenzene
Concen: 51.338 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:105 Resp: 440824

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1

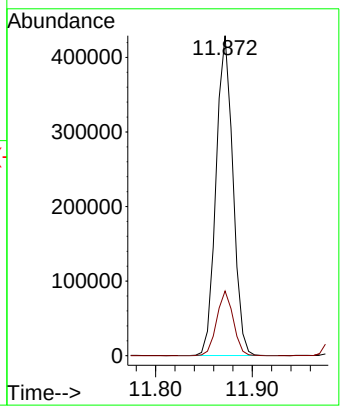




#85
sec-Butylbenzene
Concen: 50.386 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:105 Resp: 51888

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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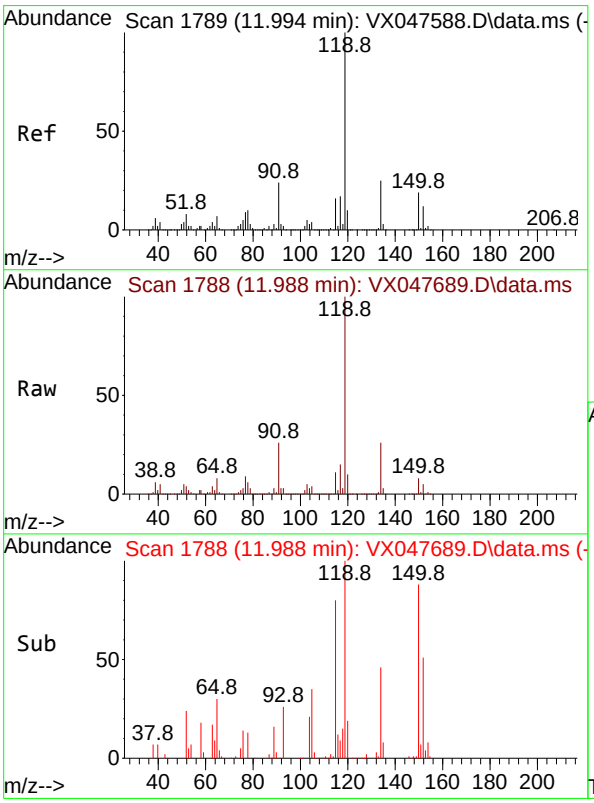
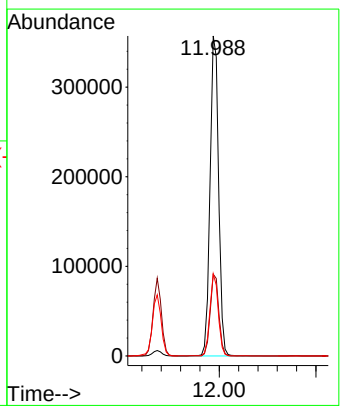
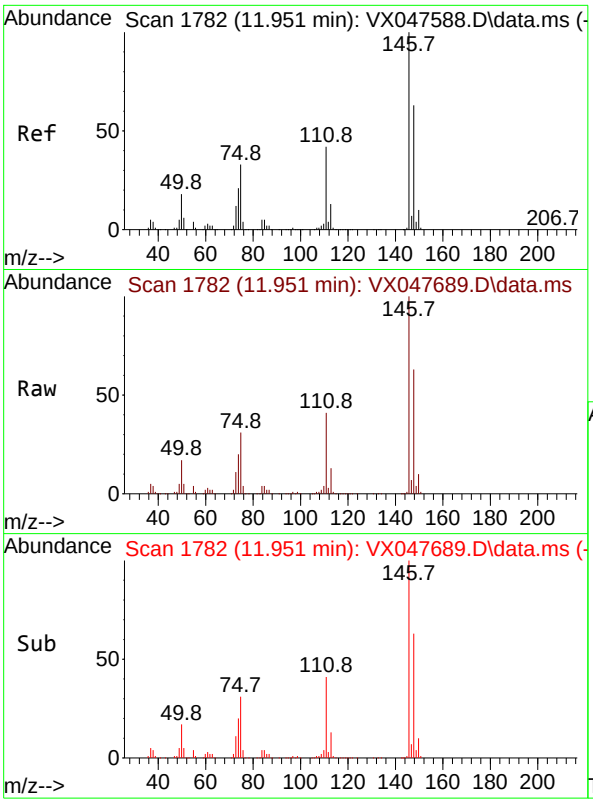


#86
p-Isopropyltoluene
Concen: 50.142 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:119 Resp: 437167

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	25.1	12.6	37.6

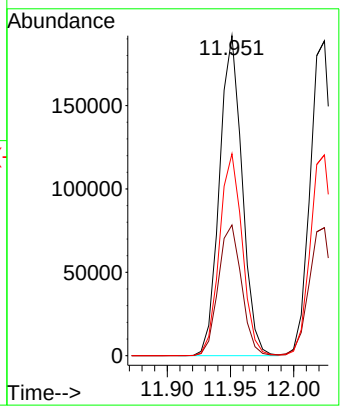




#87
1,3-Dichlorobenzene
Concen: 50.649 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:146 Resp: 23885

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	63.5	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 09/23/2025
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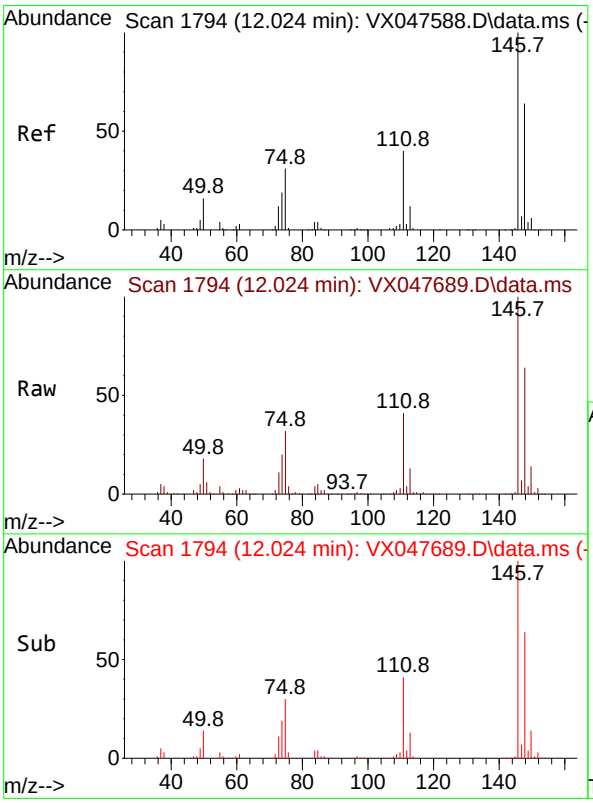
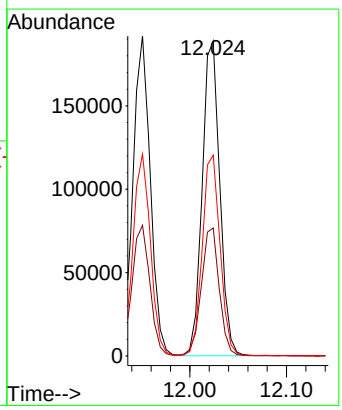
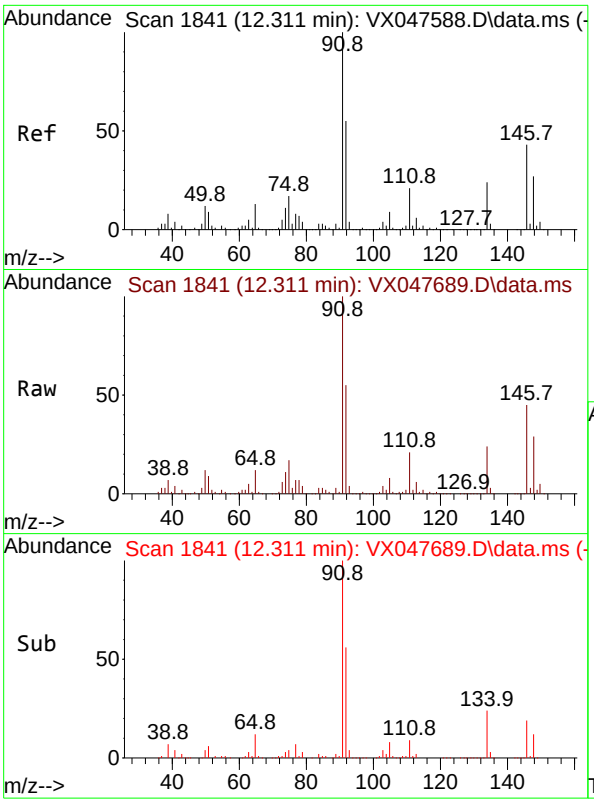


#88
1,4-Dichlorobenzene
Concen: 49.364 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:146 Resp: 238927

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.8	62.4
148	64.5	31.7	95.1

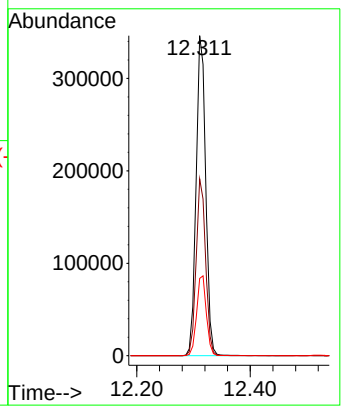




#89
n-Butylbenzene
Concen: 50.441 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 91 Resp: 40691

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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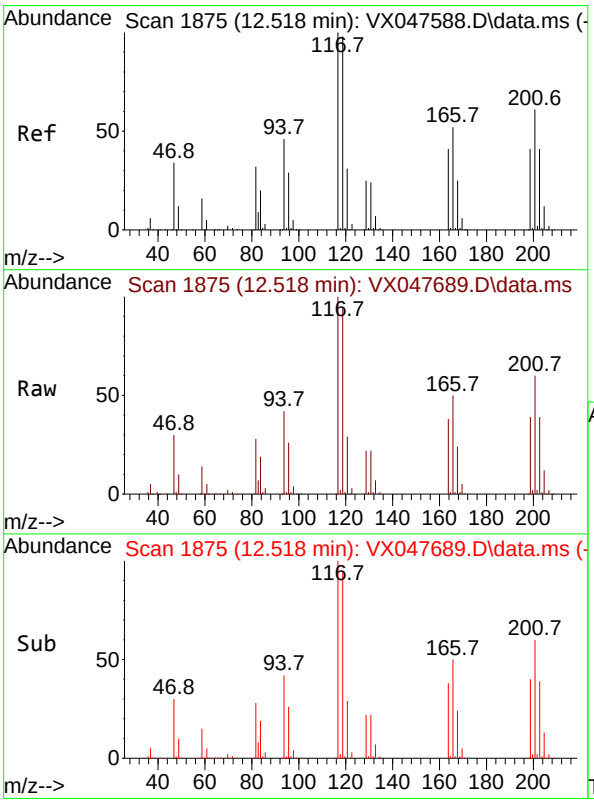
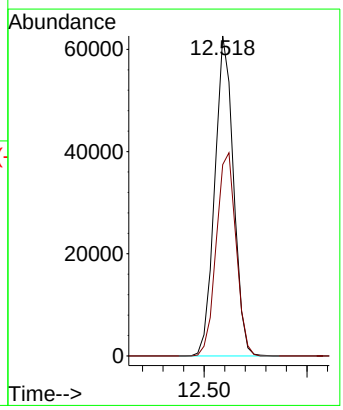
Supervised By :Mahesh Dadoda 09/24/2025

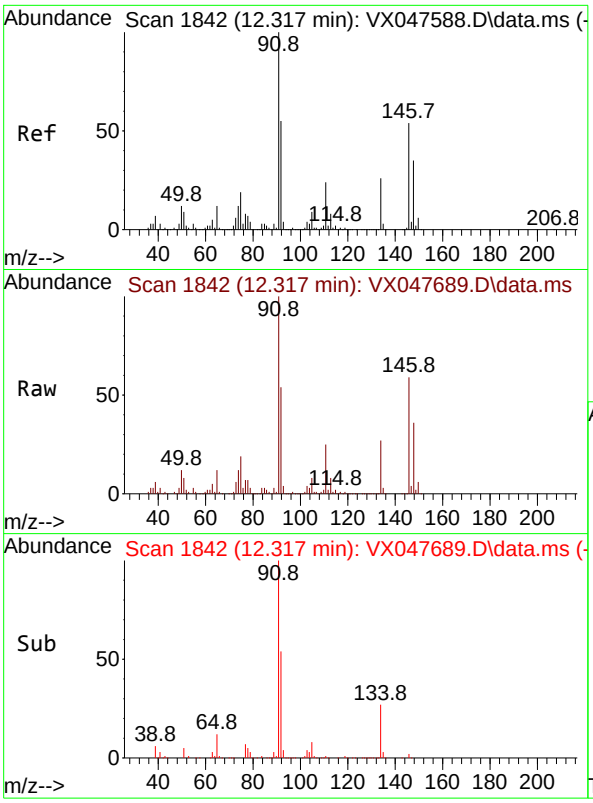


#90
Hexachloroethane
Concen: 51.794 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:117 Resp: 79281

Ion	Ratio	Lower	Upper
117	100		
201	66.9	34.2	102.5

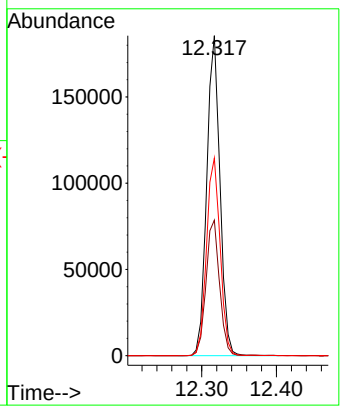




#91
1,2-Dichlorobenzene
Concen: 50.568 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:146 Resp: 22719

Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.2	66.6
148	63.6	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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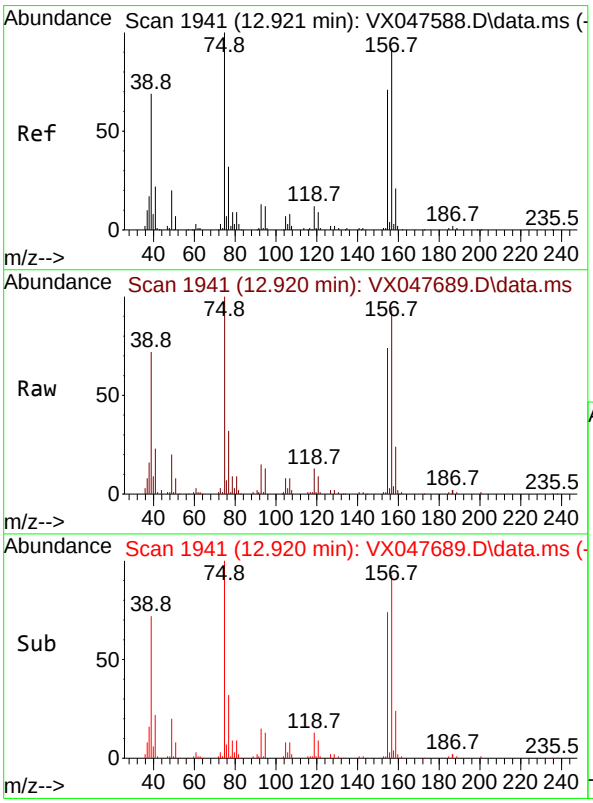
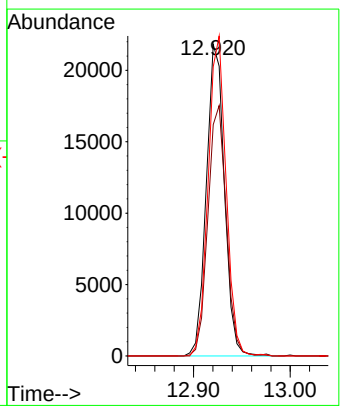
Supervised By :Mahesh Dadoda 09/24/2025

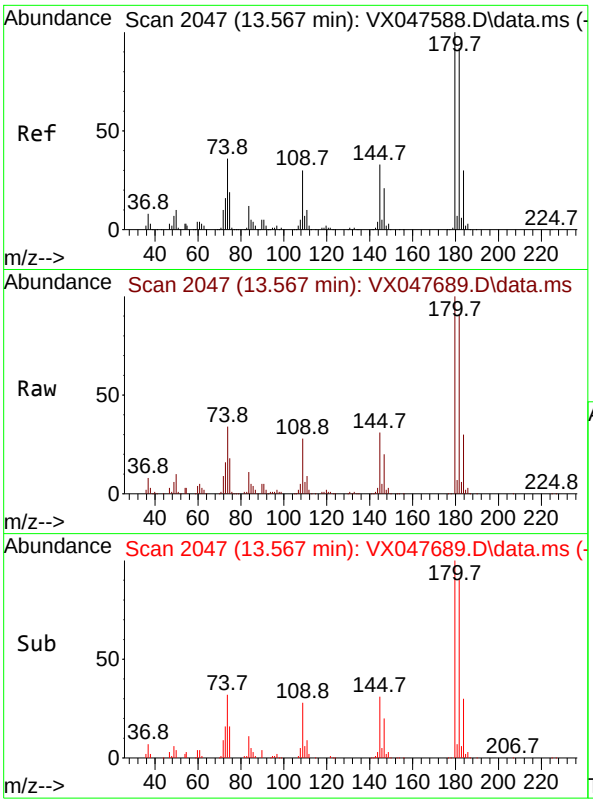


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.046 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 28445

Ion	Ratio	Lower	Upper
75	100		
155	81.6	37.7	113.1
157	101.4	49.8	149.4

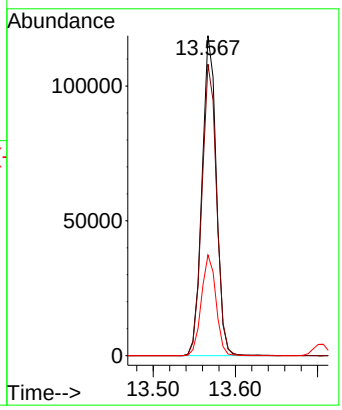




#93
1,2,4-Trichlorobenzene
Concen: 49.042 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:180 Resp: 14320

Ion	Ratio	Lower	Upper
180	100		
182	93.3	46.6	139.8
145	32.0	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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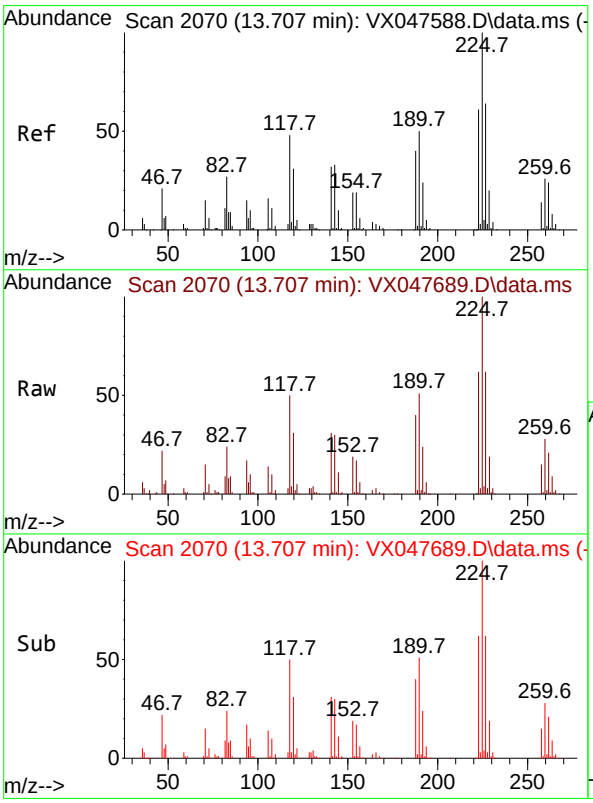
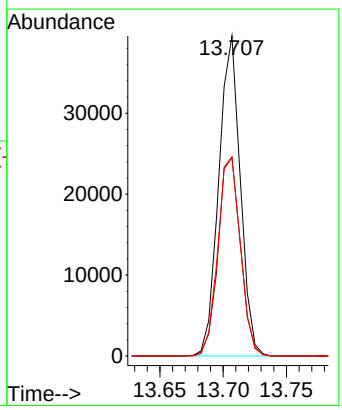
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

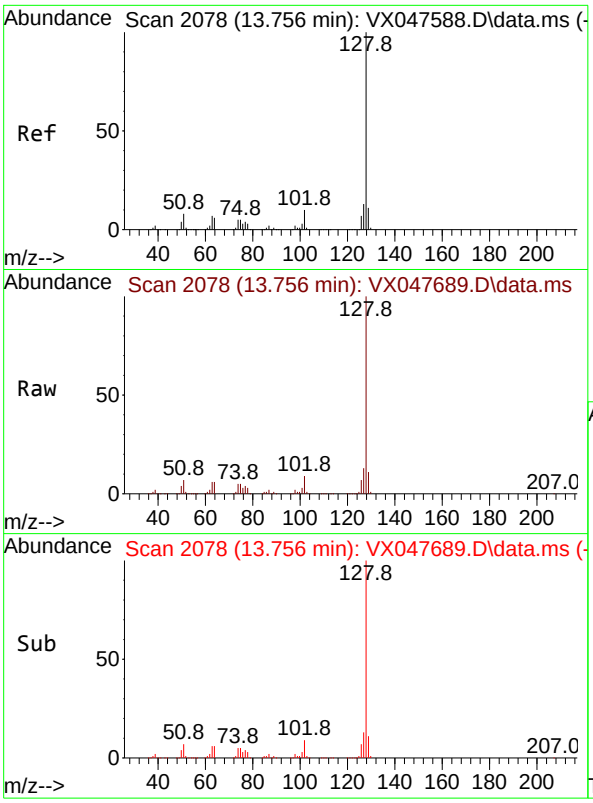


#94
Hexachlorobutadiene
Concen: 47.039 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:225 Resp: 46654

Ion	Ratio	Lower	Upper
225	100		
223	64.4	31.7	95.1
227	65.0	32.0	96.0

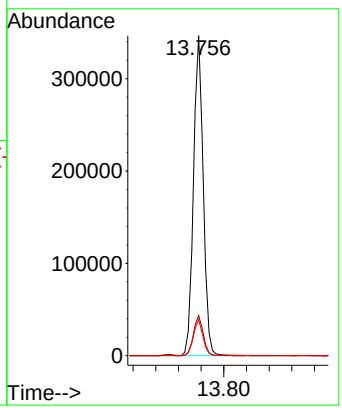




#95
Naphthalene
Concen: 46.595 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:128 Resp: 41429

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/23/2025
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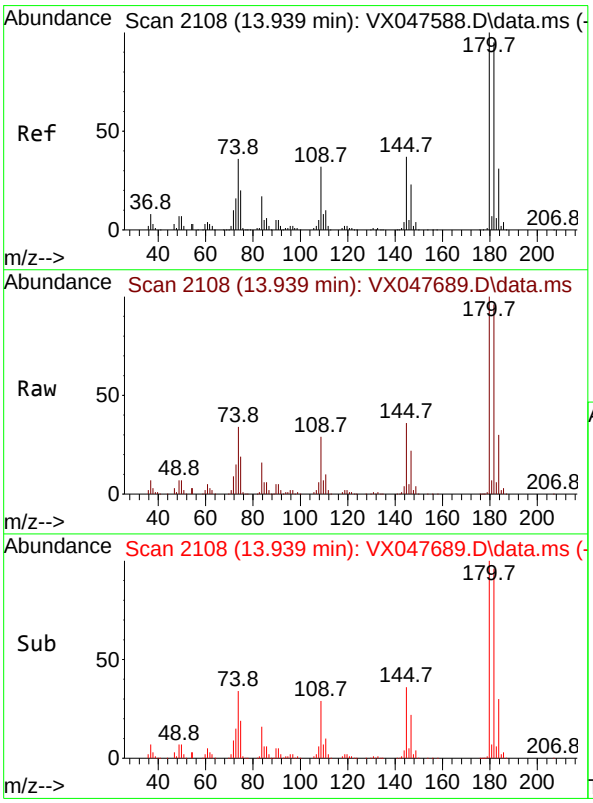
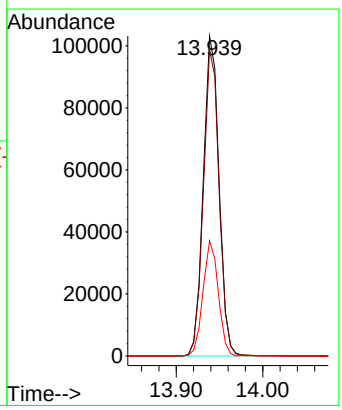


#96
1,2,3-Trichlorobenzene
Concen: 47.912 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:180 Resp: 130139

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.6	142.8
145	35.0	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	107	-0.01
2	T	Dichlorodifluoromethane	0.518	0.702	-35.5#	150#	0.00
3	P	Chloromethane	0.680	0.830	-22.1	135	0.00
4	C	Vinyl Chloride	0.666	0.828	-24.3#	134	0.00
5	T	Bromomethane	0.422	0.543	-28.7#	137	0.00
6	T	Chloroethane	0.445	0.512	-15.1	124	0.00
7	T	Trichlorofluoromethane	0.989	1.151	-16.4	124	0.00
8	T	Diethyl Ether	0.405	0.440	-8.6	116	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.657	-13.7	121	0.00
10	T	Methyl Iodide	0.902	0.972	-7.8	114	0.00
11	T	Tert butyl alcohol	0.089	0.074	16.9	89	0.00
12	CM	1,1-Dichloroethene	0.594	0.675	-13.6#	120	0.00
13	T	Acrolein	0.082	0.088	-7.3	116	0.00
14	T	Allyl chloride	1.226	1.306	-6.5	116	0.00
15	T	Acrylonitrile	0.328	0.337	-2.7	104	-0.01
16	T	Acetone	0.346	0.322	6.9	109	0.00
17	T	Carbon Disulfide	1.626	1.959	-20.5	134	0.00
18	T	Methyl Acetate	0.770	0.757	1.7	93	0.00
19	T	Methyl tert-butyl Ether	2.169	2.245	-3.5	107	0.00
20	T	Methylene Chloride	0.732	0.778	-6.3	114	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.704	-10.0	116	0.00
22	T	Diisopropyl ether	2.376	2.534	-6.6	110	-0.01
23	T	Vinyl Acetate	1.901	2.019	-6.2	109	0.00
24	P	1,1-Dichloroethane	1.263	1.365	-8.1	113	0.00
25	T	2-Butanone	0.432	0.403	6.7	99	0.00
26	T	2,2-Dichloropropane	1.050	1.099	-4.7	110	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.839	-7.2	111	-0.01
28	T	Bromochloromethane	0.551	0.557	-1.1	104	-0.01
29	T	Tetrahydrofuran	0.260	0.243	6.5	95	-0.01
30	C	Chloroform	1.276	1.336	-4.7#	108	0.00
31	T	Cyclohexane	1.052	1.098	-4.4	114	0.00
32	T	1,1,1-Trichloroethane	1.082	1.130	-4.4	108	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.814	-2.3	113	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
35	S	Dibromofluoromethane	0.335	0.363	-8.4	117	0.00
36	T	1,1-Dichloropropene	0.490	0.506	-3.3	111	-0.01
37	T	Ethyl Acetate	0.525	0.492	6.3	98	-0.01
38	T	Carbon Tetrachloride	0.532	0.547	-2.8	108	-0.01
39	T	Methylcyclohexane	0.556	0.585	-5.2	110	0.00
40	TM	Benzene	1.488	1.578	-6.0	110	0.00
41	T	Methacrylonitrile	0.271	0.266	1.8	99	-0.01
42	TM	1,2-Dichloroethane	0.566	0.567	-0.2	104	0.00
43	T	Isopropyl Acetate	0.860	0.827	3.8	98	0.00
44	TM	Trichloroethene	0.360	0.388	-7.8	112	0.00
45	C	1,2-Dichloropropane	0.381	0.396	-3.9#	106	0.00
46	T	Dibromomethane	0.277	0.283	-2.2	104	0.00
47	T	Bromodichloromethane	0.572	0.593	-3.7	104	0.00
48	T	Methyl methacrylate	0.429	0.416	3.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.004	0.0	94	-0.01
50	S	Toluene-d8	1.160	1.219	-5.1	113	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.454	4.8	95	0.00
52	CM	Toluene	0.917	0.958	-4.5#	108	0.00
53	T	t-1,3-Dichloropropene	0.584	0.594	-1.7	102	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.655	-5.0	107	0.00
55	T	1,1,2-Trichloroethane	0.354	0.352	0.6	102	0.00
56	T	Ethyl methacrylate	0.555	0.556	-0.2	99	0.00
57	T	1,3-Dichloropropane	0.607	0.620	-2.1	103	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.265	-16.7	103	0.00
59	T	2-Hexanone	0.343	0.312	9.0	92	0.00
60	T	Dibromochloromethane	0.407	0.423	-3.9	103	0.00
61	T	1,2-Dibromoethane	0.360	0.368	-2.2	103	0.00
62	S	4-Bromofluorobenzene	0.440	0.451	-2.5	112	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64	T	Tetrachloroethene	0.326	0.343	-5.2	110	0.00
65	PM	Chlorobenzene	1.136	1.190	-4.8	106	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.414	-5.6	104	0.00
67	C	Ethyl Benzene	1.960	2.061	-5.2#	106	0.00
68	T	m/p-Xylenes	0.729	0.769	-5.5	105	0.00
69	T	o-Xylene	0.706	0.749	-6.1	104	0.00
70	T	Styrene	1.236	1.299	-5.1	105	0.00
71	P	Bromoform	0.293	0.311	-6.1	104	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
73	T	Isopropylbenzene	3.801	3.908	-2.8	103	0.00
74	T	N-amyl acetate	1.733	1.710	1.3	98	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.132	1.6	98	0.00
76	T	1,2,3-Trichloropropane	1.012	0.918	9.3	86	0.00
77	T	Bromobenzene	0.936	0.959	-2.5	103	0.00
78	T	n-propylbenzene	4.494	4.601	-2.4	102	0.00
79	T	2-Chlorotoluene	2.752	2.805	-1.9	102	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.218	-3.0	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.384	3.3	98	0.00
82	T	4-Chlorotoluene	3.251	3.297	-1.4	102	0.00
83	T	tert-Butylbenzene	3.197	3.163	1.1	100	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.251	-2.7	103	0.00
85	T	sec-Butylbenzene	3.797	3.827	-0.8	101	0.00
86	T	p-Isopropyltoluene	3.215	3.224	-0.3	100	0.00
87	T	1,3-Dichlorobenzene	1.739	1.762	-1.3	103	0.00
88	T	1,4-Dichlorobenzene	1.785	1.762	1.3	102	0.00
89	T	n-Butylbenzene	2.975	3.001	-0.9	101	0.00
90	T	Hexachloroethane	0.564	0.585	-3.7	105	0.00
91	T	1,2-Dichlorobenzene	1.657	1.676	-1.1	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.210	9.9	88	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.056	1.9	97	0.00
94	T	Hexachlorobutadiene	0.366	0.344	6.0	95	0.00
95	T	Naphthalene	3.279	3.055	6.8	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.960	4.2	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	107	-0.01
2	T	Dichlorodifluoromethane	50.000	67.766	-35.5#	150	0.00
3	P	Chloromethane	50.000	60.960	-21.9	135	0.00
4	C	Vinyl Chloride	50.000	62.162	-24.3#	134	0.00
5	T	Bromomethane	50.000	64.225	-28.4#	137	0.00
6	T	Chloroethane	50.000	57.477	-15.0	124	0.00
7	T	Trichlorofluoromethane	50.000	58.200	-16.4	124	0.00
8	T	Diethyl Ether	50.000	54.382	-8.8	116	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	56.816	-13.6	121	0.00
10	T	Methyl Iodide	50.000	53.906	-7.8	114	0.00
11	T	Tert butyl alcohol	250.000	207.891	16.8	89	0.00
12	CM	1,1-Dichloroethene	50.000	56.777	-13.6#	120	0.00
13	T	Acrolein	250.000	269.814	-7.9	116	0.00
14	T	Allyl chloride	50.000	53.283	-6.6	116	0.00
15	T	Acrylonitrile	250.000	256.685	-2.7	104	-0.01
16	T	Acetone	250.000	232.434	7.0	109	0.00
17	T	Carbon Disulfide	50.000	60.224	-20.4	134	0.00
18	T	Methyl Acetate	50.000	49.136	1.7	93	0.00
19	T	Methyl tert-butyl Ether	50.000	51.758	-3.5	107	0.00
20	T	Methylene Chloride	50.000	53.119	-6.2	114	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.041	-10.1	116	0.00
22	T	Diisopropyl ether	50.000	53.342	-6.7	110	-0.01
23	T	Vinyl Acetate	250.000	265.449	-6.2	109	0.00
24	P	1,1-Dichloroethane	50.000	54.031	-8.1	113	0.00
25	T	2-Butanone	250.000	233.614	6.6	99	0.00
26	T	2,2-Dichloropropane	50.000	52.358	-4.7	110	0.00
27	T	cis-1,2-Dichloroethene	50.000	53.558	-7.1	111	-0.01
28	T	Bromochloromethane	50.000	50.564	-1.1	104	-0.01
29	T	Tetrahydrofuran	250.000	233.550	6.6	95	-0.01
30	C	Chloroform	50.000	52.338	-4.7#	108	0.00
31	T	Cyclohexane	50.000	52.182	-4.4	114	0.00
32	T	1,1,1-Trichloroethane	50.000	52.212	-4.4	108	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.108	-2.2	113	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	106	0.00
35	S	Dibromofluoromethane	50.000	54.164	-8.3	117	0.00
36	T	1,1-Dichloropropene	50.000	51.655	-3.3	111	-0.01
37	T	Ethyl Acetate	50.000	46.911	6.2	98	-0.01
38	T	Carbon Tetrachloride	50.000	51.330	-2.7	108	-0.01
39	T	Methylcyclohexane	50.000	52.558	-5.1	110	0.00
40	TM	Benzene	50.000	53.017	-6.0	110	0.00
41	T	Methacrylonitrile	50.000	49.191	1.6	99	-0.01
42	TM	1,2-Dichloroethane	50.000	50.055	-0.1	104	0.00
43	T	Isopropyl Acetate	50.000	48.067	3.9	98	0.00
44	TM	Trichloroethene	50.000	53.976	-8.0	112	0.00
45	C	1,2-Dichloropropane	50.000	51.965	-3.9#	106	0.00
46	T	Dibromomethane	50.000	50.950	-1.9	104	0.00
47	T	Bromodichloromethane	50.000	51.822	-3.6	104	0.00
48	T	Methyl methacrylate	50.000	48.497	3.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	983.820	1.6	94	-0.01
50	S	Toluene-d8	50.000	52.523	-5.0	113	0.00
51	T	4-Methyl-2-Pentanone	250.000	237.947	4.8	95	0.00
52	CM	Toluene	50.000	52.243	-4.5#	108	0.00
53	T	t-1,3-Dichloropropene	50.000	50.900	-1.8	102	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.459	-4.9	107	0.00
55	T	1,1,2-Trichloroethane	50.000	49.721	0.6	102	0.00
56	T	Ethyl methacrylate	50.000	50.070	-0.1	99	0.00
57	T	1,3-Dichloropropane	50.000	51.053	-2.1	103	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	249.751	0.1	103	0.00
59	T	2-Hexanone	250.000	227.437	9.0	92	0.00
60	T	Dibromochloromethane	50.000	51.886	-3.8	103	0.00
61	T	1,2-Dibromoethane	50.000	51.062	-2.1	103	0.00
62	S	4-Bromofluorobenzene	50.000	51.184	-2.4	112	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64	T	Tetrachloroethene	50.000	52.674	-5.3	110	0.00
65	PM	Chlorobenzene	50.000	52.373	-4.7	106	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.773	-5.5	104	0.00
67	C	Ethyl Benzene	50.000	52.587	-5.2#	106	0.00
68	T	m/p-Xylenes	100.000	105.410	-5.4	105	0.00
69	T	o-Xylene	50.000	53.057	-6.1	104	0.00
70	T	Styrene	50.000	52.550	-5.1	105	0.00
71	P	Bromoform	50.000	53.124	-6.2	104	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	106	0.00
73	T	Isopropylbenzene	50.000	51.399	-2.8	103	0.00
74	T	N-amyl acetate	50.000	49.332	1.3	98	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.211	1.6	98	0.00
76	T	1,2,3-Trichloropropane	50.000	45.328	9.3	86	0.00
77	T	Bromobenzene	50.000	51.207	-2.4	103	0.00
78	T	n-propylbenzene	50.000	51.190	-2.4	102	0.00
79	T	2-Chlorotoluene	50.000	50.962	-1.9	102	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.525	-3.0	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.334	3.3	98	0.00
82	T	4-Chlorotoluene	50.000	50.709	-1.4	102	0.00
83	T	tert-Butylbenzene	50.000	49.469	1.1	100	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.338	-2.7	103	0.00
85	T	sec-Butylbenzene	50.000	50.386	-0.8	101	0.00
86	T	p-Isopropyltoluene	50.000	50.142	-0.3	100	0.00
87	T	1,3-Dichlorobenzene	50.000	50.649	-1.3	103	0.00
88	T	1,4-Dichlorobenzene	50.000	49.364	1.3	102	0.00
89	T	n-Butylbenzene	50.000	50.441	-0.9	101	0.00
90	T	Hexachloroethane	50.000	51.794	-3.6	105	0.00
91	T	1,2-Dichlorobenzene	50.000	50.568	-1.1	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.046	9.9	88	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.042	1.9	97	0.00
94	T	Hexachlorobutadiene	50.000	47.039	5.9	95	0.00
95	T	Naphthalene	50.000	46.595	6.8	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.912	4.2	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/22/2025 19:40
Lab File ID:	VX047717.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.586		13.13	50
Chloromethane	0.680	0.730	0.1	7.35	50
Vinyl Chloride	0.666	0.709		6.46	50
Bromomethane	0.422	0.480		13.74	50
Chloroethane	0.445	0.467		4.94	50
Trichlorofluoromethane	0.989	0.995		0.61	50
1,1,2-Trichlorotrifluoroethane	0.578	0.585		1.21	50
1,1-Dichloroethene	0.594	0.603		1.51	50
Acetone	0.346	0.287		-17.05	50
Carbon Disulfide	1.626	1.720		5.78	50
Methyl tert-butyl Ether	2.169	2.272		4.75	50
Methyl Acetate	0.770	0.852		10.65	50
Methylene Chloride	0.732	0.748		2.19	50
trans-1,2-Dichloroethene	0.640	0.668		4.38	50
1,1-Dichloroethane	1.263	1.307	0.1	3.48	50
Cyclohexane	1.052	1.042		-0.95	50
2-Butanone	0.432	0.447		3.47	50
Carbon Tetrachloride	0.532	0.503		-5.45	50
cis-1,2-Dichloroethene	0.783	0.813		3.83	50
Bromochloromethane	0.551	0.567		2.9	50
Chloroform	1.276	1.327		4	50
1,1,1-Trichloroethane	1.082	1.106		2.22	50
Methylcyclohexane	0.556	0.540		-2.88	50
Benzene	1.488	1.513		1.68	50
1,2-Dichloroethane	0.566	0.561		-0.88	50
Trichloroethene	0.360	0.374		3.89	50
1,2-Dichloropropane	0.381	0.393		3.15	50
Bromodichloromethane	0.572	0.580		1.4	50
4-Methyl-2-Pentanone	0.477	0.520		9.02	50
Toluene	0.917	0.927		1.09	50
t-1,3-Dichloropropene	0.584	0.596		2.06	50
cis-1,3-Dichloropropene	0.624	0.637		2.08	50
1,1,2-Trichloroethane	0.354	0.369		4.24	50
2-Hexanone	0.343	0.363		5.83	50
Dibromochloromethane	0.407	0.428		5.16	50
1,2-Dibromoethane	0.360	0.387		7.5	50
Tetrachloroethene	0.326	0.319		-2.15	50
Chlorobenzene	1.136	1.142	0.3	0.53	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/22/2025 19:40
Lab File ID:	VX047717.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	1.952		-0.41	50
m/p-Xylenes	0.729	0.736		0.96	50
o-Xylene	0.706	0.717		1.56	50
Styrene	1.236	1.262		2.1	50
Bromoform	0.293	0.301	0.1	2.73	50
Isopropylbenzene	3.801	3.740		-1.61	50
1,1,2,2-Tetrachloroethane	1.150	1.212	0.3	5.39	50
1,3-Dichlorobenzene	1.739	1.722		-0.98	50
1,4-Dichlorobenzene	1.785	1.742		-2.41	50
1,2-Dichlorobenzene	1.657	1.679		1.33	50
1,2-Dibromo-3-Chloropropane	0.233	0.247		6.01	50
1,2,4-Trichlorobenzene	1.077	1.057		-1.86	50
1,2,3-Trichlorobenzene	1.002	1.015		1.3	50
1,2-Dichloroethane-d4	0.796	0.871		9.42	50
Dibromofluoromethane	0.335	0.370		10.45	50
Toluene-d8	1.160	1.276		10	50
4-Bromofluorobenzene	0.440	0.489		11.14	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	151263	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	277250	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	250939	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	120316	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	131803	54.742	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.480%			
35) Dibromofluoromethane	5.373	113	102447	55.097	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.200%			
50) Toluene-d8	8.634	98	353835	54.996	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 110.000%			
62) 4-Bromofluorobenzene	11.061	95	135585	55.527	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	88566	56.543	ug/l	99
3) Chloromethane	1.300	50	110444	53.650	ug/l	98
4) Vinyl Chloride	1.380	62	107172	53.183	ug/l	99
5) Bromomethane	1.617	94	72614	56.826	ug/l	96
6) Chloroethane	1.697	64	70585	52.407	ug/l	99
7) Trichlorofluoromethane	1.898	101	150481	50.293	ug/l	99
8) Diethyl Ether	2.136	74	63484	51.867	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	88522	50.597	ug/l	99
10) Methyl Iodide	2.459	142	139955	51.292	ug/l	100
11) Tert butyl alcohol	2.946	59	70235	261.918	ug/l	100
12) 1,1-Dichloroethene	2.325	96	91283	50.793	ug/l	98
13) Acrolein	2.239	56	67239	272.101	ug/l	99
14) Allyl chloride	2.666	41	181689	48.993	ug/l	97
15) Acrylonitrile	3.056	53	278155	280.040	ug/l	99
16) Acetone	2.373	43	217175	207.448	ug/l	99
17) Carbon Disulfide	2.520	76	260128	52.873	ug/l	97
18) Methyl Acetate	2.703	43	128811	55.287	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	343603	52.375	ug/l	100
20) Methylene Chloride	2.788	84	113084	51.031	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	101088	52.246	ug/l	97
22) Diisopropyl ether	3.751	45	374276	52.076	ug/l #	80
23) Vinyl Acetate	3.715	43	1575430	273.882	ug/l	99
24) 1,1-Dichloroethane	3.605	63	197744	51.765	ug/l	100
25) 2-Butanone	4.544	43	337965	258.807	ug/l	99
26) 2,2-Dichloropropane	4.464	77	138210	43.525	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	123020	51.917	ug/l	98
28) Bromochloromethane	4.885	49	85726	51.404	ug/l	99
29) Tetrahydrofuran	4.995	42	215954	274.899	ug/l	99
30) Chloroform	5.080	83	200652	51.979	ug/l	97
31) Cyclohexane	5.464	56	157545	49.517	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	167268	51.085	ug/l	99
36) 1,1-Dichloropropene	5.684	75	130436	48.007	ug/l	99
37) Ethyl Acetate	4.702	43	147890	50.836	ug/l	98
38) Carbon Tetrachloride	5.665	117	139363	47.209	ug/l	94
39) Methylcyclohexane	7.366	83	149612	48.510	ug/l	98
40) Benzene	6.031	78	419576	50.844	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.910	41	83185	55.388 ug/l	96
42) 1,2-Dichloroethane	6.074	62	155471	49.515 ug/l	98
43) Isopropyl Acetate	6.324	43	249793	52.355 ug/l	99
44) Trichloroethene	7.110	130	103766	52.011 ug/l	97
45) 1,2-Dichloropropane	7.415	63	108998	51.582 ug/l	100
46) Dibromomethane	7.568	93	79231	51.526 ug/l	98
47) Bromodichloromethane	7.805	83	160815	50.680 ug/l	99
48) Methyl methacrylate	7.677	41	124008	52.179 ug/l	98
49) 1,4-Dioxane	7.647	88	31911	1328.639 ug/l	97
51) 4-Methyl-2-Pentanone	8.561	43	721472	272.732 ug/l	100
52) Toluene	8.702	92	257025	50.554 ug/l	99
53) t-1,3-Dichloropropene	8.964	75	165158	51.028 ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	176564	51.038 ug/l	99
55) 1,1,2-Trichloroethane	9.134	97	102388	52.227 ug/l	99
56) Ethyl methacrylate	9.104	69	166501	54.080 ug/l	97
57) 1,3-Dichloropropane	9.293	76	179432	53.280 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	385340	261.171 ug/l	99
59) 2-Hexanone	9.415	43	503551	265.041 ug/l	99
60) Dibromochloromethane	9.506	129	118732	52.563 ug/l	98
61) 1,2-Dibromoethane	9.592	107	107185	53.678 ug/l	100
64) Tetrachloroethene	9.262	164	79987	48.896 ug/l	95
65) Chlorobenzene	10.067	112	286551	50.265 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.146	131	99248	50.451 ug/l	99
67) Ethyl Benzene	10.177	91	489716	49.786 ug/l	99
68) m/p-Xylenes	10.287	106	369200	100.842 ug/l	98
69) o-Xylene	10.628	106	179991	50.827 ug/l	98
70) Styrene	10.640	104	316706	51.041 ug/l	98
71) Bromoform	10.787	173	75426	51.349 ug/l	99
73) Isopropylbenzene	10.945	105	449995	49.195 ug/l	99
74) N-amyl acetate	10.829	43	222470	53.334 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	145865	52.707 ug/l	99
76) 1,2,3-Trichloropropane	11.225	75	111654m	45.835 ug/l	
77) Bromobenzene	11.183	156	114639	50.885 ug/l	97
78) n-propylbenzene	11.286	91	529287	48.949 ug/l	100
79) 2-Chlorotoluene	11.347	91	323780	48.889 ug/l	97
80) 1,3,5-Trimethylbenzene	11.433	105	370606	49.314 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	46938	49.137 ug/l	97
82) 4-Chlorotoluene	11.439	91	385744	49.316 ug/l	99
83) tert-Butylbenzene	11.695	119	375656	48.830 ug/l	99
84) 1,2,4-Trimethylbenzene	11.731	105	382206	50.163 ug/l	100
85) sec-Butylbenzene	11.872	105	450434	49.293 ug/l	99
86) p-Isopropyltoluene	11.994	119	374399	48.396 ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	207129	49.499 ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	209548	48.791 ug/l	99
89) n-Butylbenzene	12.317	91	342927	47.906 ug/l	99
90) Hexachloroethane	12.518	117	66519	48.974 ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	202068	50.686 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	29730	53.060 ug/l	97
93) 1,2,4-Trichlorobenzene	13.567	180	127145	49.073 ug/l	98
94) Hexachlorobutadiene	13.707	225	40382	45.885 ug/l	98
95) Naphthalene	13.756	128	411593	52.169 ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	122162	50.686 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
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Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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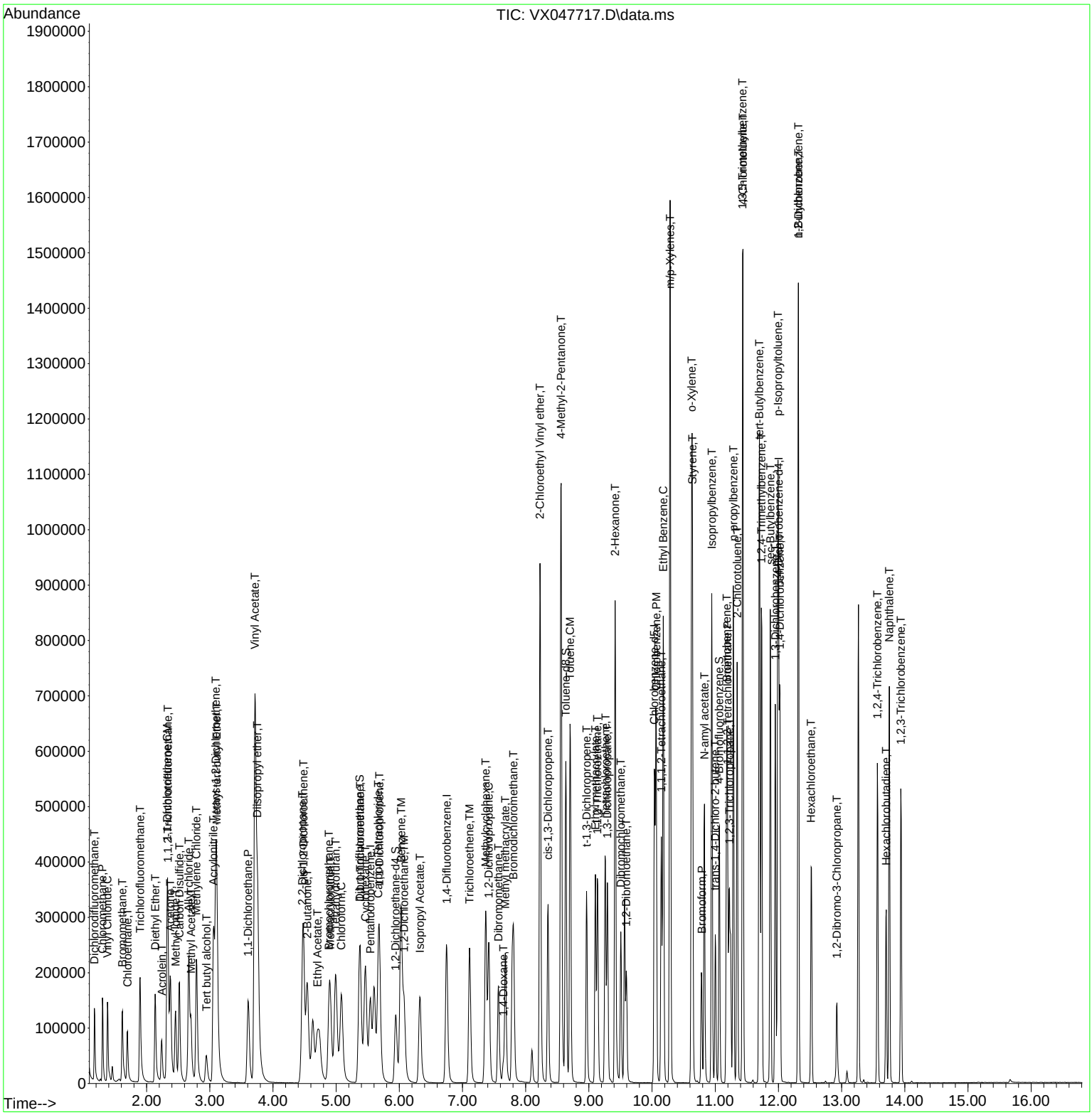
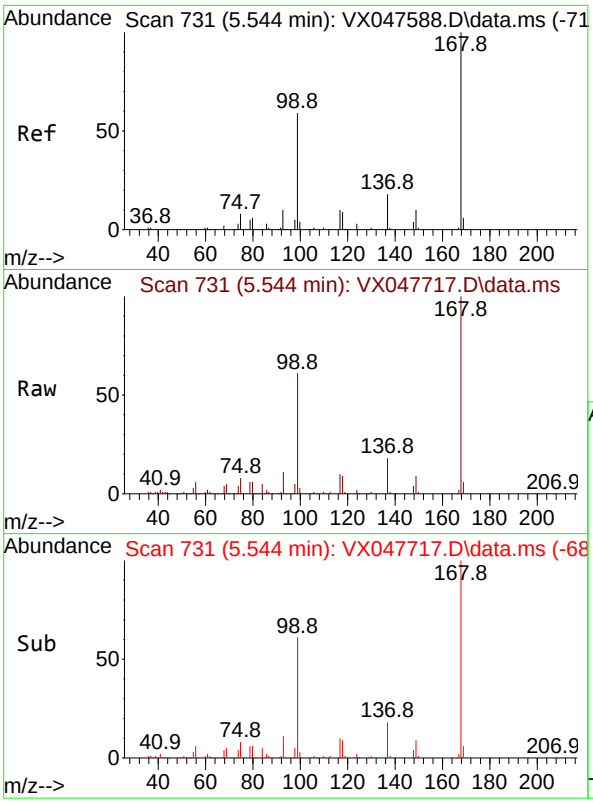
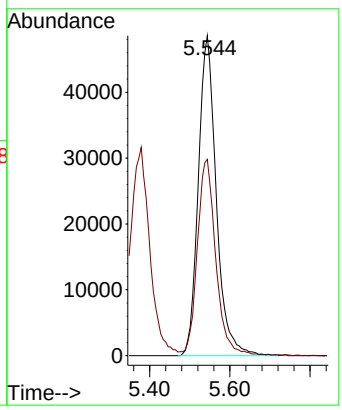




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:168 Resp: 15126

Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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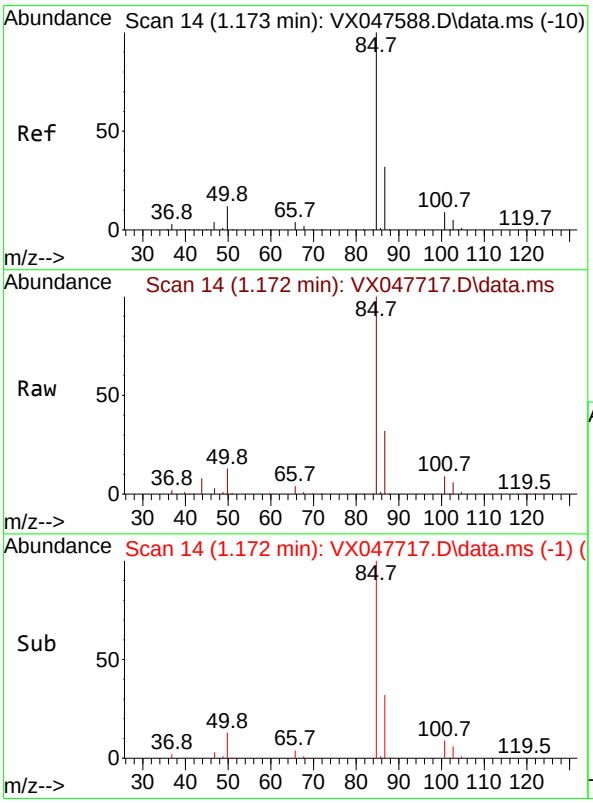
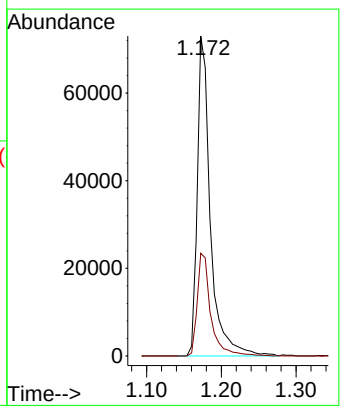
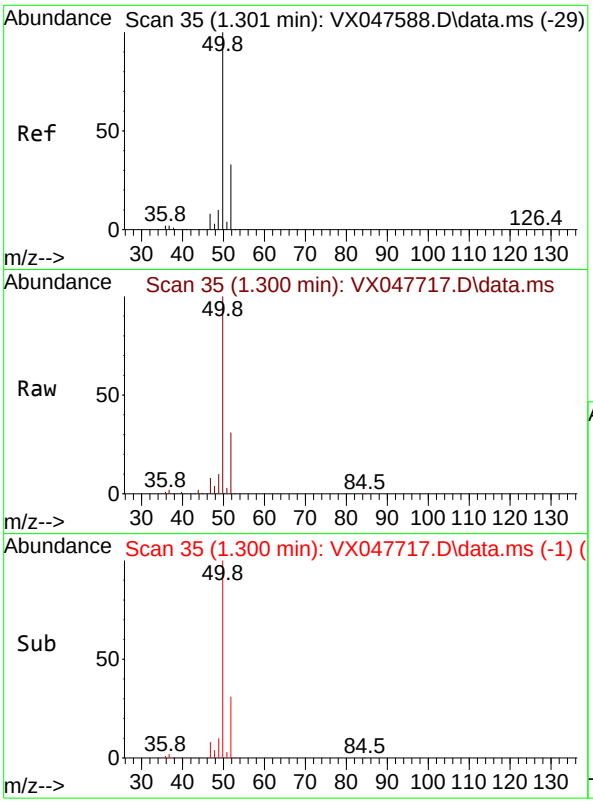


#2
Dichlorodifluoromethane
Concen: 56.543 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 85 Resp: 88566

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.8	47.3

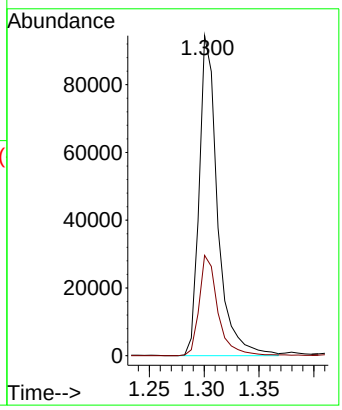




#3
Chloromethane
Concen: 53.650 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 50 Resp: 11044

Ion	Ratio	Lower	Upper
50	100		
52	31.4	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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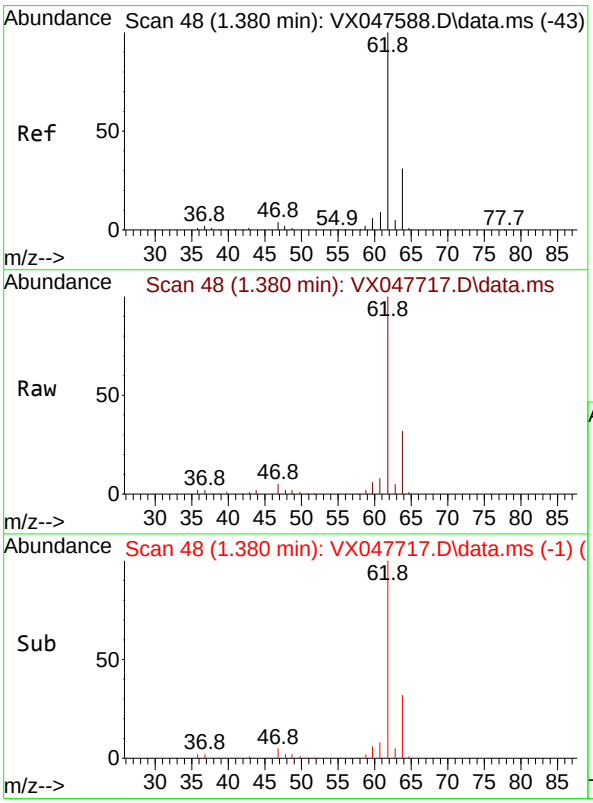
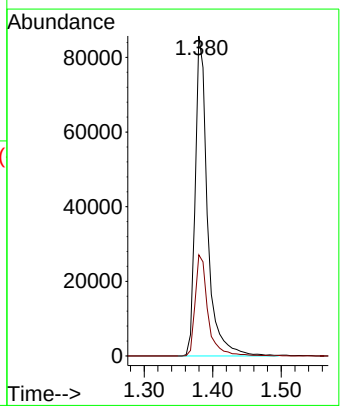
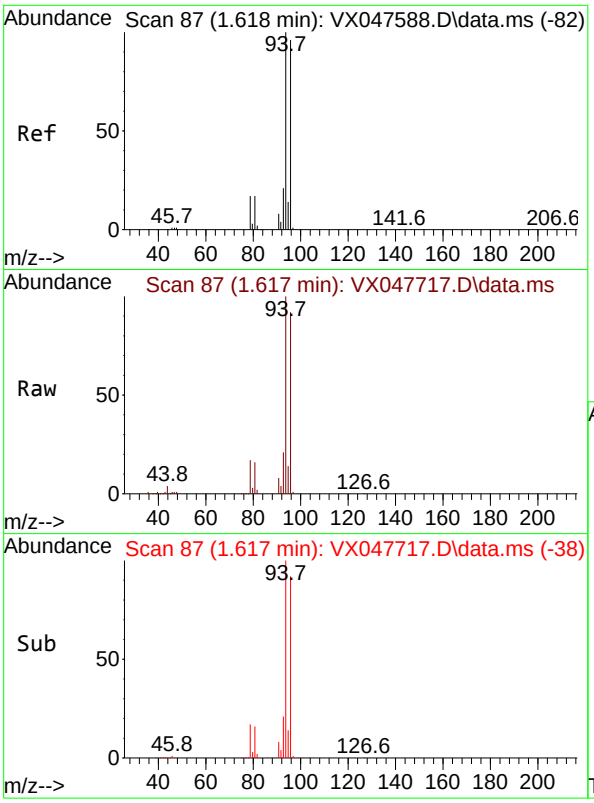


#4
Vinyl Chloride
Concen: 53.183 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 62 Resp: 107172

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.9	37.3





#5
Bromomethane
Concen: 56.826 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 94 Resp: 7261

Ion	Ratio	Lower	Upper
94	100		
96	91.8	76.6	115.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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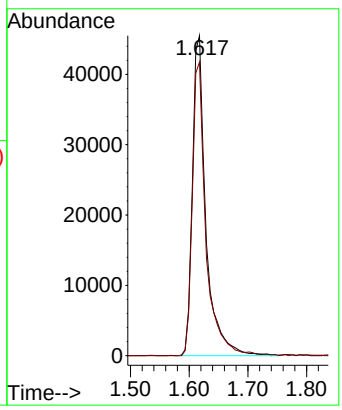
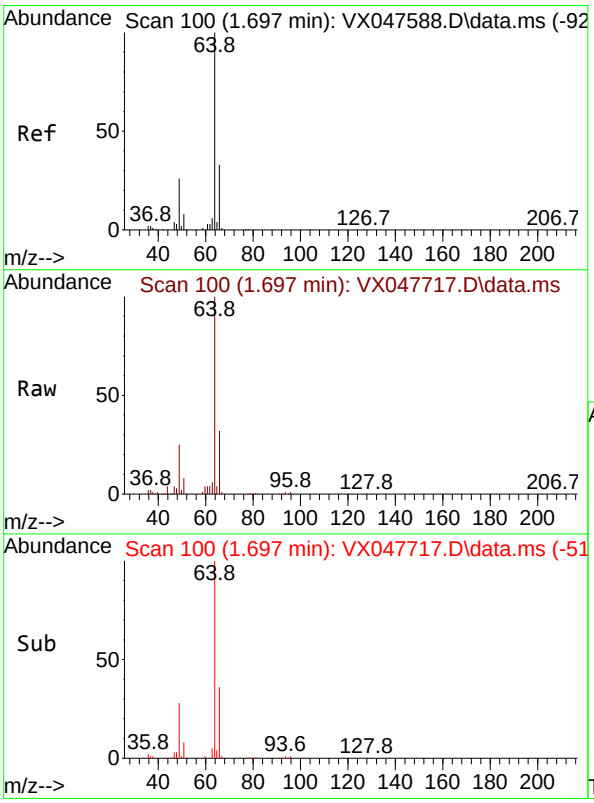
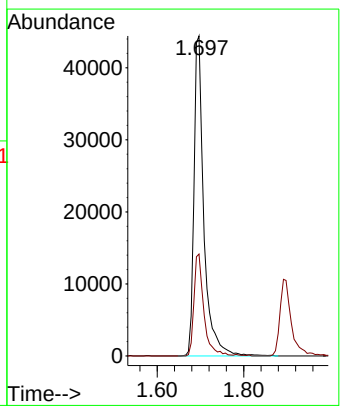


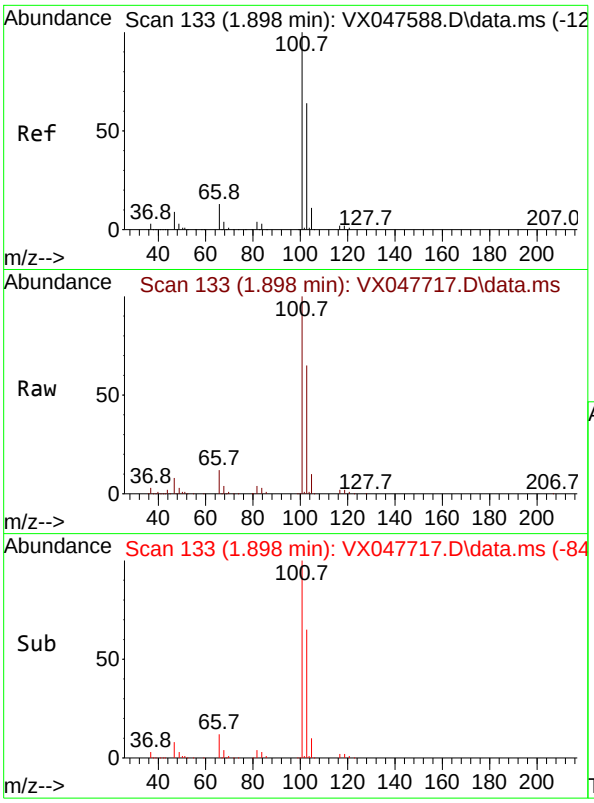


#6
Chloroethane
Concen: 52.407 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 64 Resp: 70585

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1

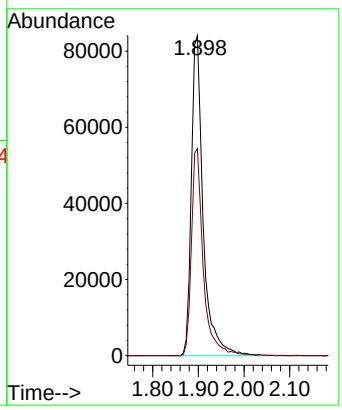




#7
Trichlorofluoromethane
Concen: 50.293 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:101 Resp: 15048

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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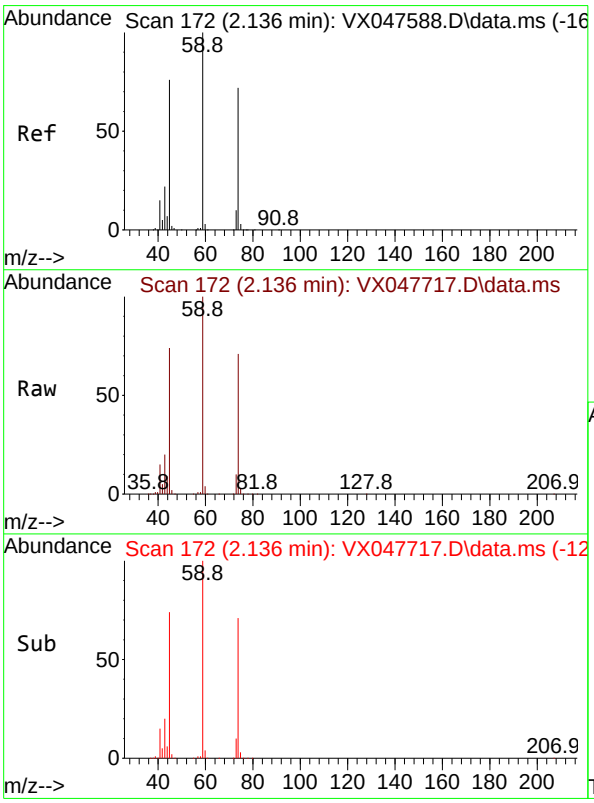
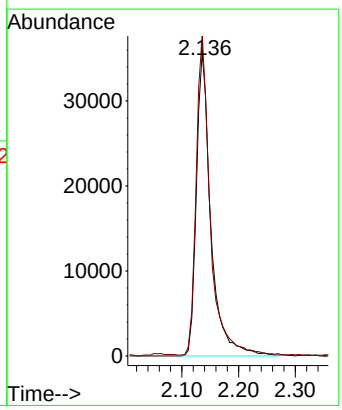
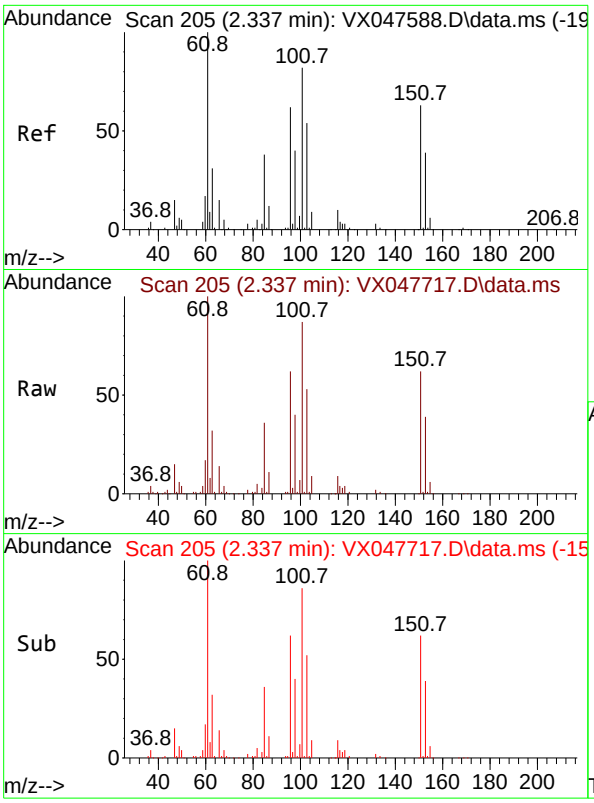


#8
Diethyl Ether
Concen: 51.867 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 74 Resp: 63484

Ion	Ratio	Lower	Upper
74	100		
45	102.2	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.597 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:101 Resp: 8852

Ion	Ratio	Lower	Upper
101	100		
85	43.3	35.5	53.3
151	73.4	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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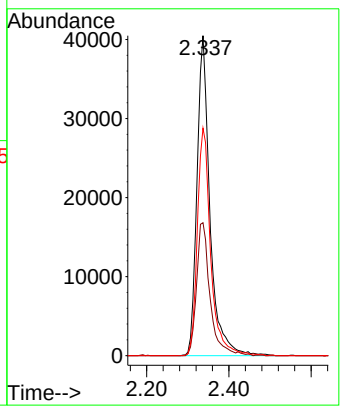
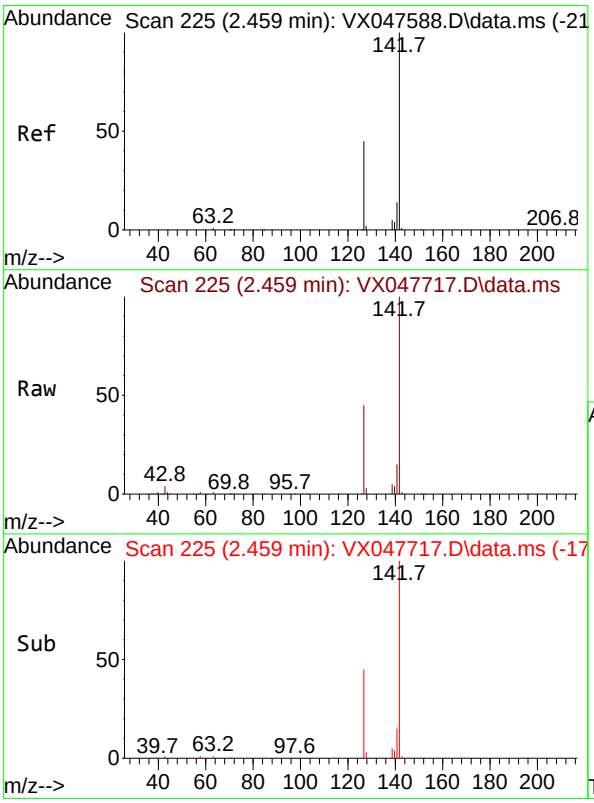
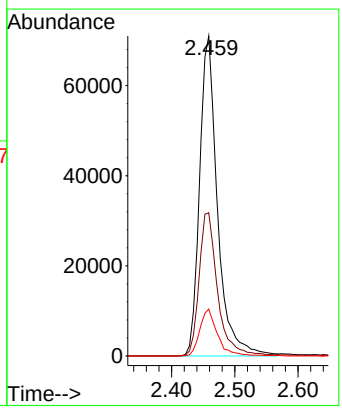


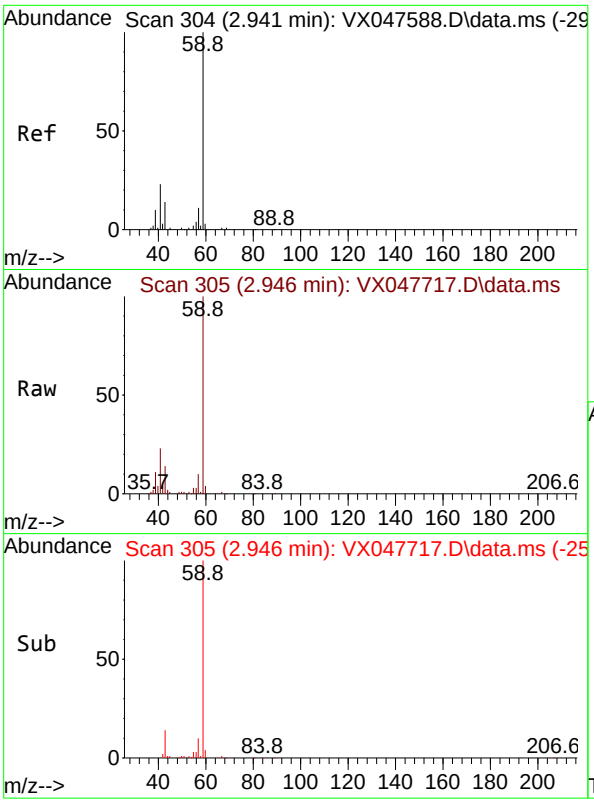


#10
Methyl Iodide
Concen: 51.292 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:142 Resp: 139955

Ion	Ratio	Lower	Upper
142	100		
127	46.4	37.2	55.8
141	14.5	11.4	17.0





#11
Tert butyl alcohol
Concen: 261.918 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 59 Resp: 7023

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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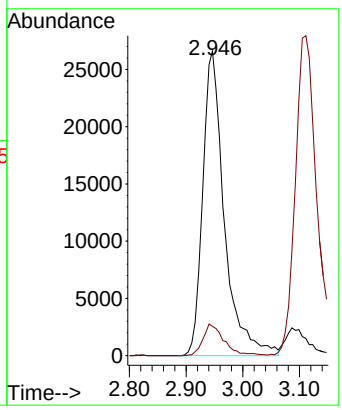
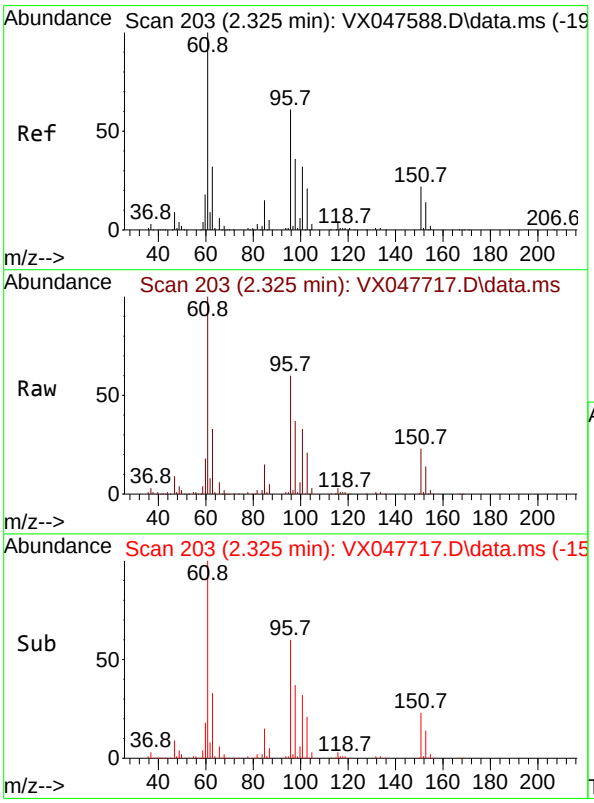
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

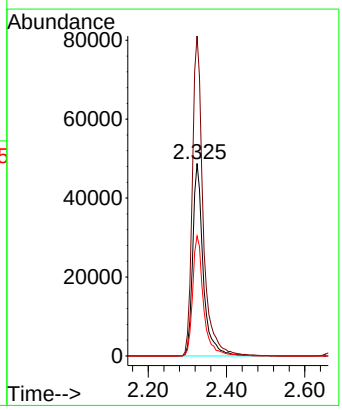


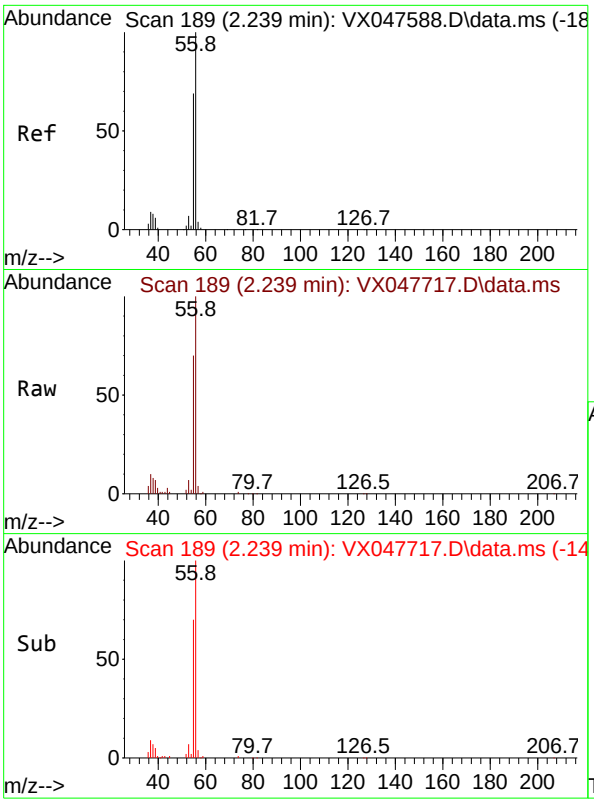


#12
1,1-Dichloroethene
Concen: 50.793 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 96 Resp: 91283

Ion	Ratio	Lower	Upper
96	100		
61	166.3	131.0	196.6
98	62.3	47.7	71.5

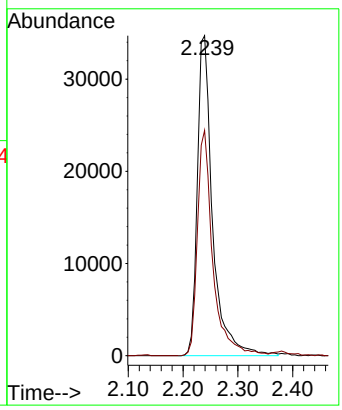




#13
Acrolein
Concen: 272.101 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 56 Resp: 6723

Ion	Ratio	Lower	Upper
56	100		
55	70.9	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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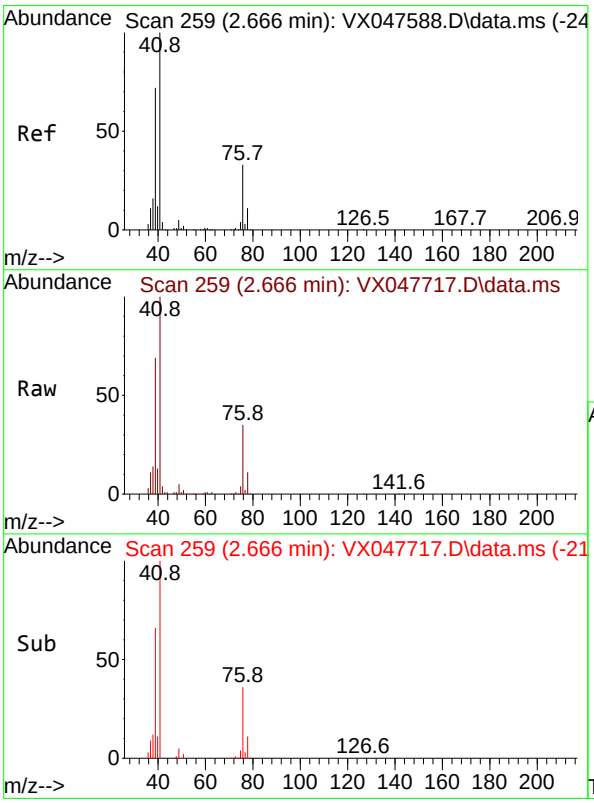
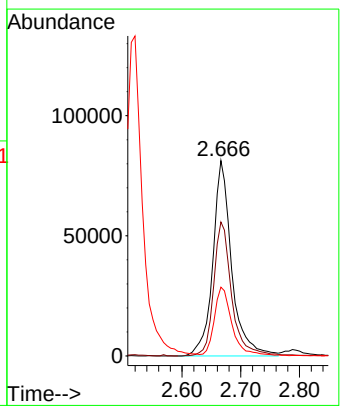
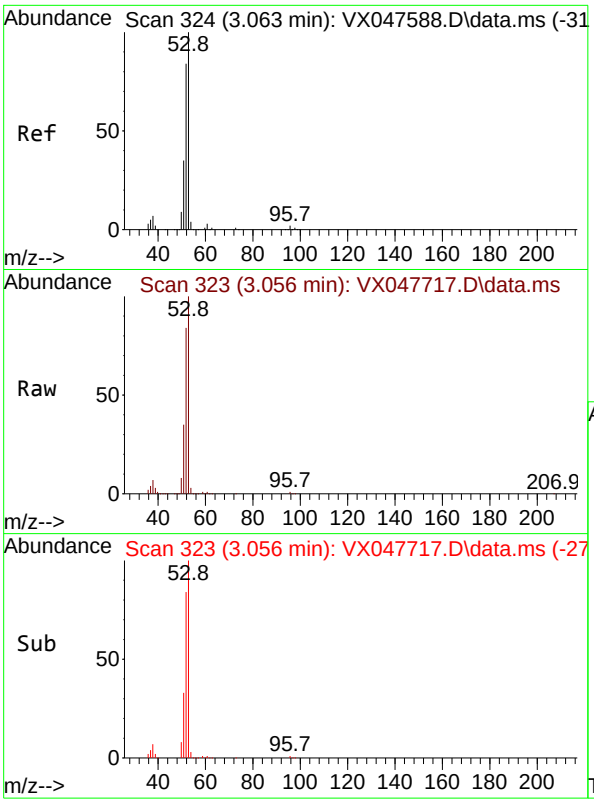


#14
Allyl chloride
Concen: 48.993 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 41 Resp: 181689

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.7	82.1
76	33.5	25.7	38.5

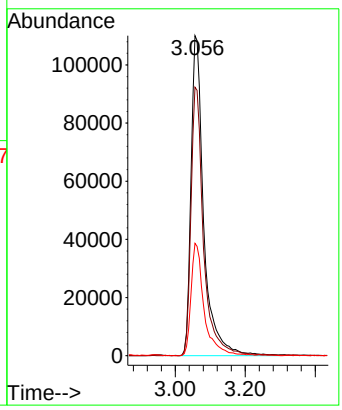




#15
Acrylonitrile
Concen: 280.040 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 53 Resp: 27815

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.4	99.6
51	36.1	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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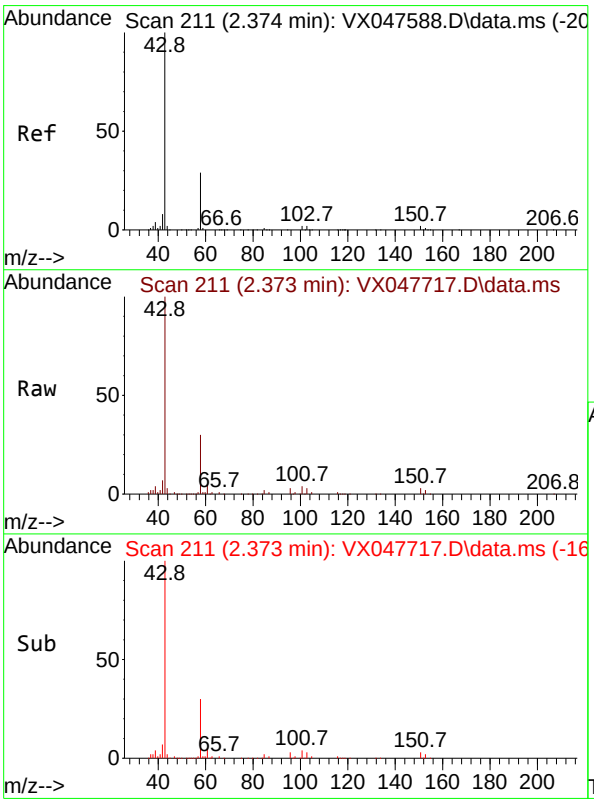
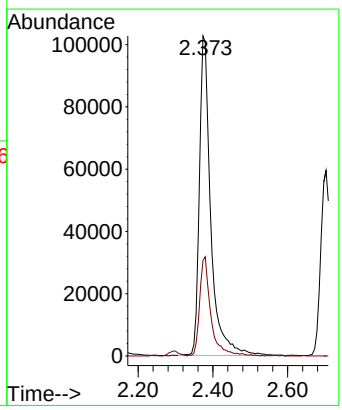
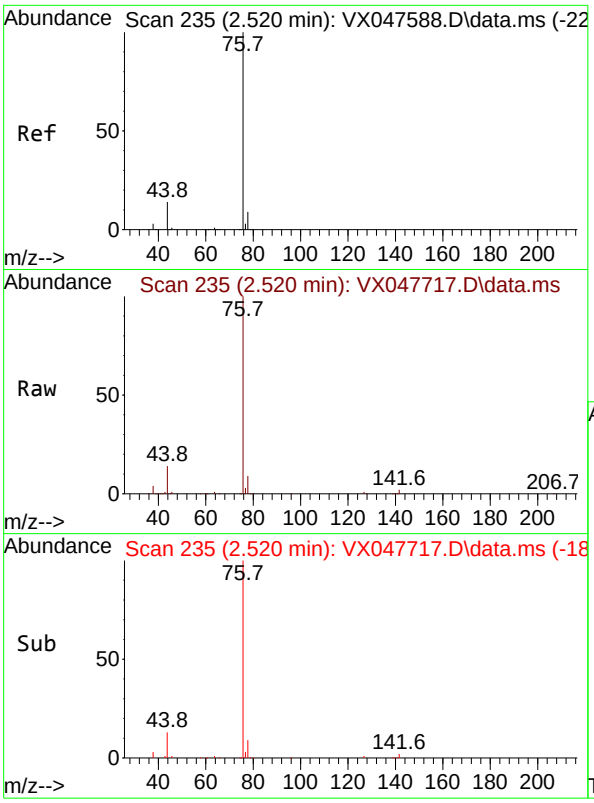


#16
Acetone
Concen: 207.448 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 217175

Ion	Ratio	Lower	Upper
43	100		
58	29.8	23.4	35.0

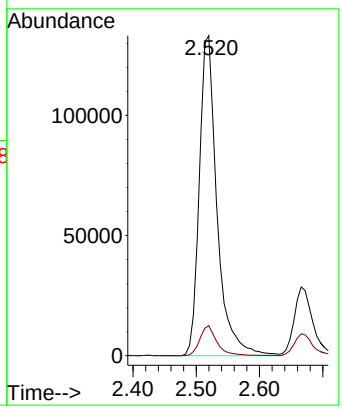




#17
Carbon Disulfide
Concen: 52.873 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 76 Resp: 26012

Ion	Ratio	Lower	Upper
76	100		
78	9.4	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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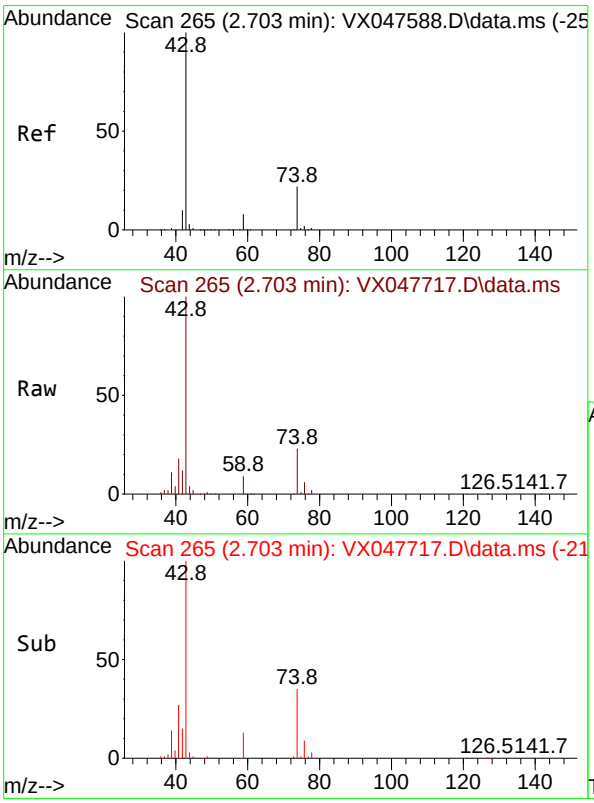
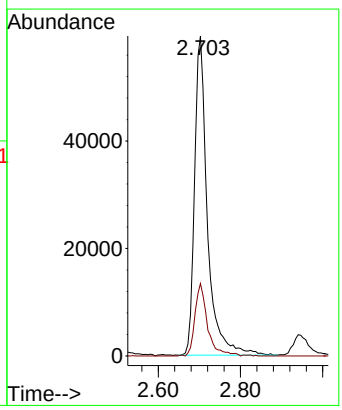
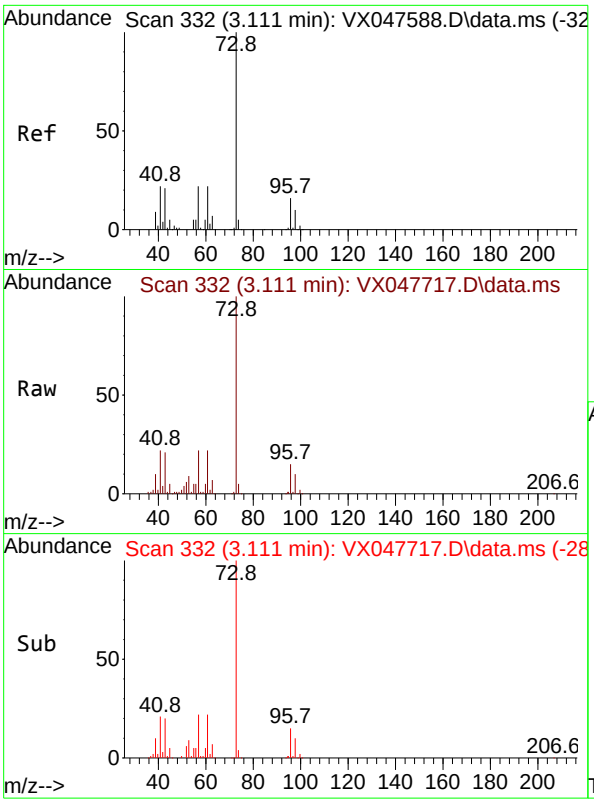


#18
Methyl Acetate
Concen: 55.287 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 128811

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2

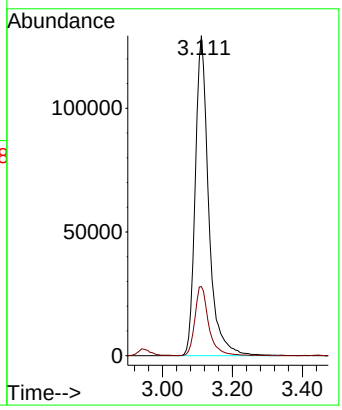




#19
Methyl tert-butyl Ether
Concen: 52.375 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 73 Resp: 34360

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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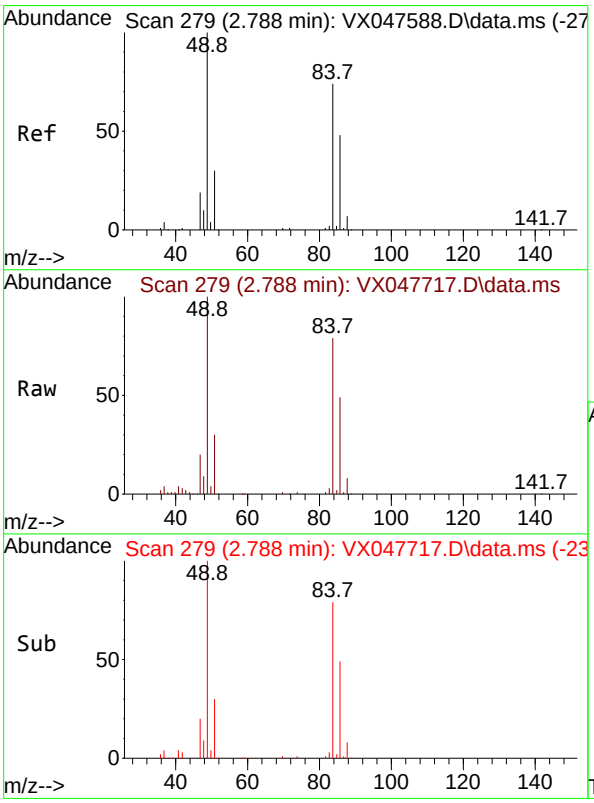
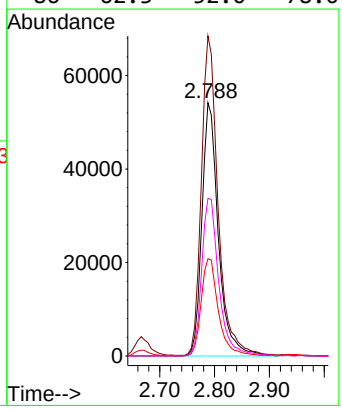
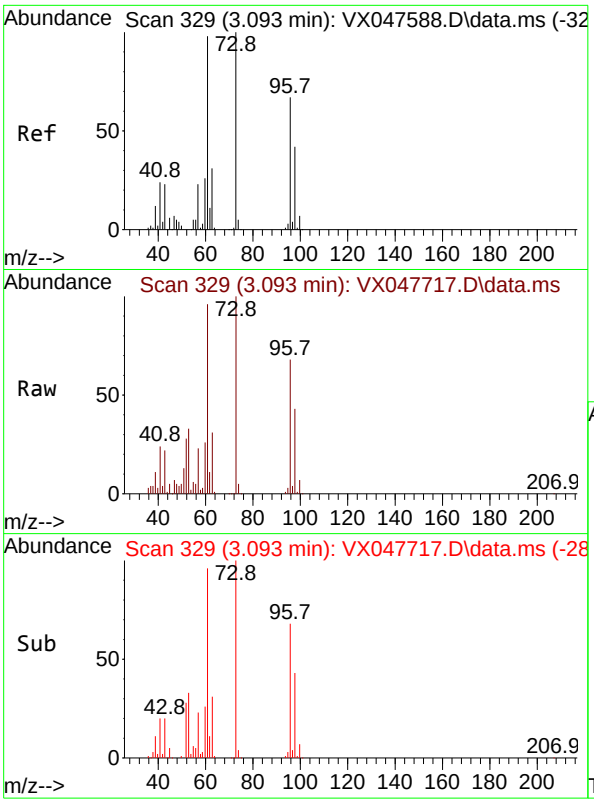


#20
Methylene Chloride
Concen: 51.031 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 84 Resp: 113084

Ion	Ratio	Lower	Upper
84	100		
49	126.1	108.6	162.8
51	38.5	32.6	48.8
86	62.3	52.0	78.0

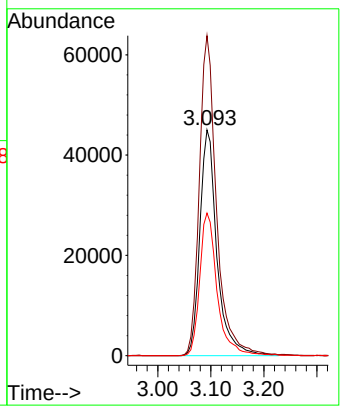




#21
trans-1,2-Dichloroethene
Concen: 52.246 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 96 Resp: 10108

Ion	Ratio	Lower	Upper
96	100		
61	141.7	116.2	174.2
98	63.2	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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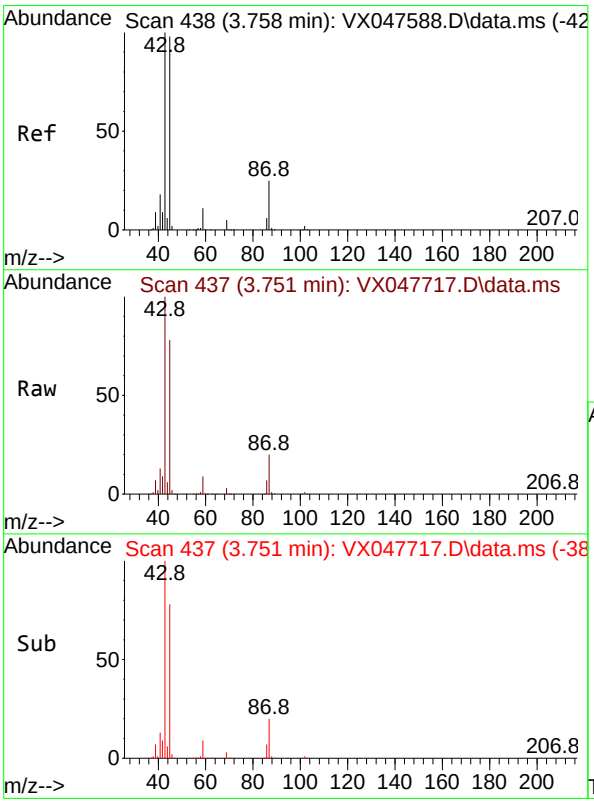
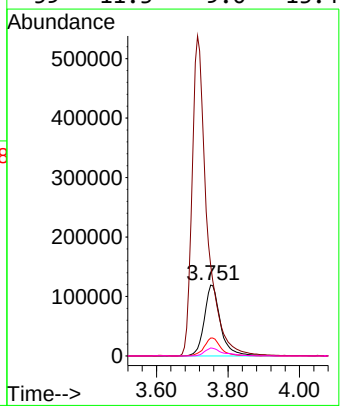
Supervised By :Mahesh Dadoda 09/24/2025

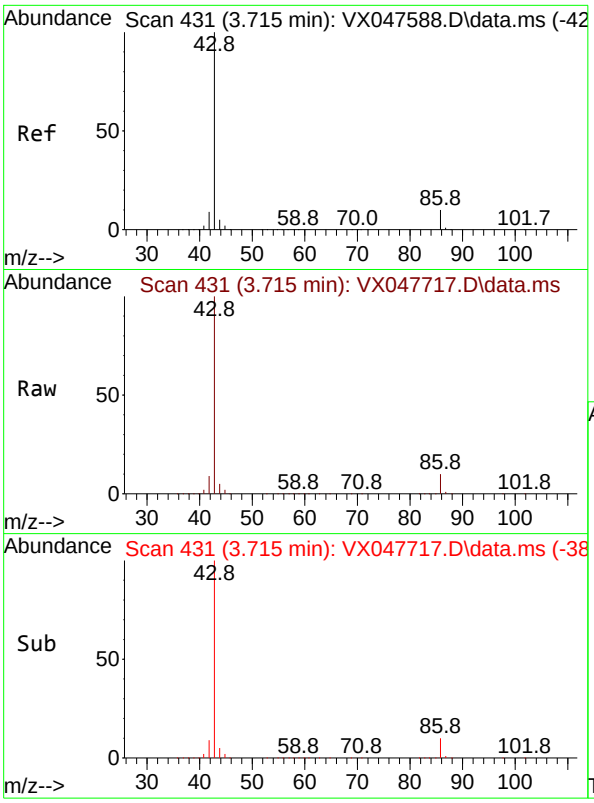


#22
Diisopropyl ether
Concen: 52.076 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 45 Resp: 374276

Ion	Ratio	Lower	Upper
45	100		
43	128.0	81.0	121.4#
87	25.4	20.3	30.5
59	11.3	9.0	13.4





#23
Vinyl Acetate
Concen: 273.882 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 157543

Ion	Ratio	Lower	Upper
43	100		
86	10.3	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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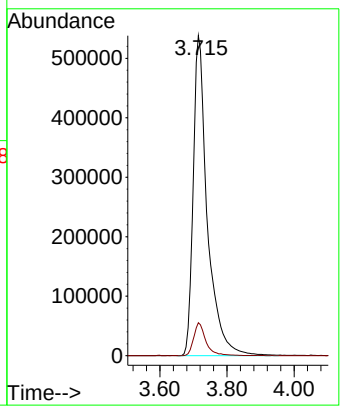
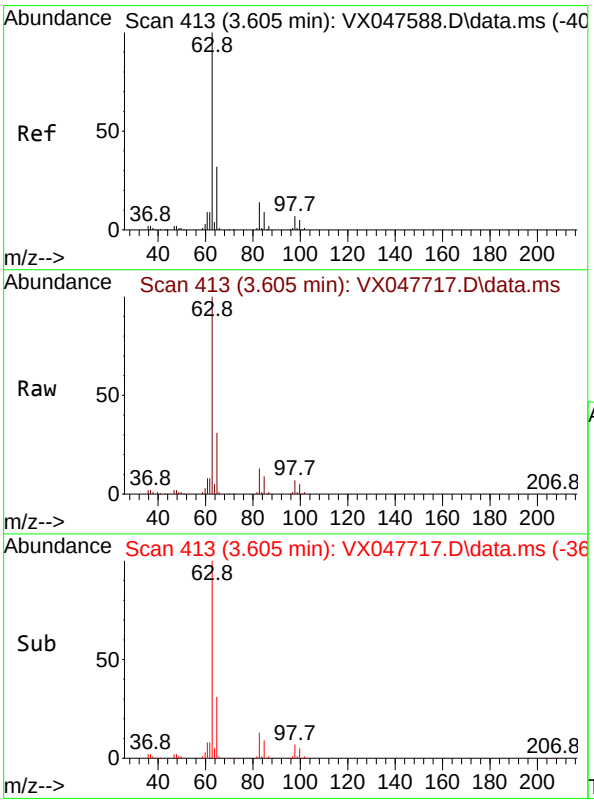
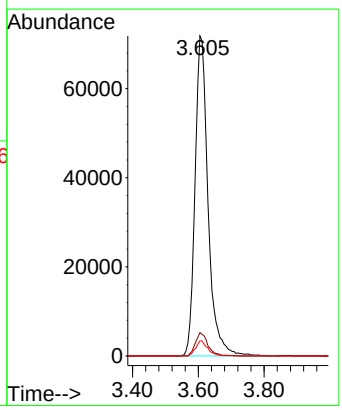


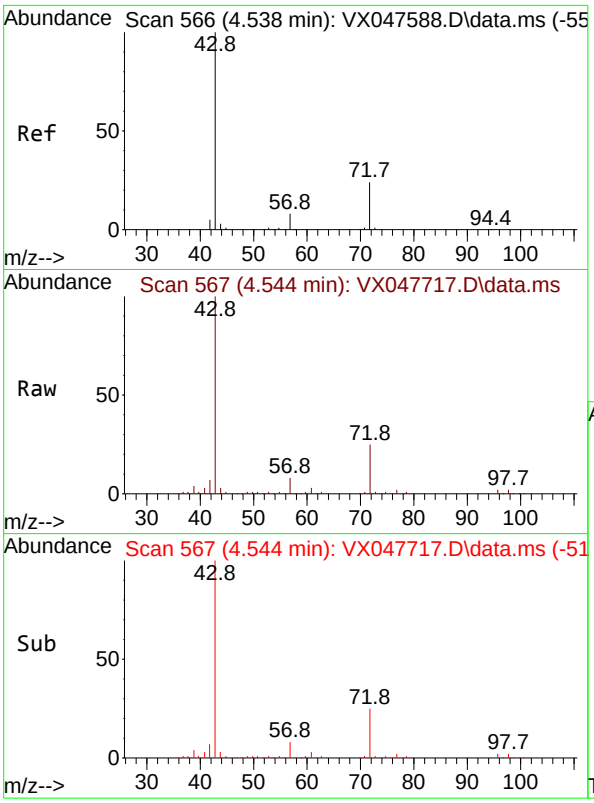


#24
1,1-Dichloroethane
Concen: 51.765 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 63 Resp: 197744

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.7	2.3	6.9





#25
2-Butanone
Concen: 258.807 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 33796

Ion	Ratio	Lower	Upper
43	100		
72	24.5	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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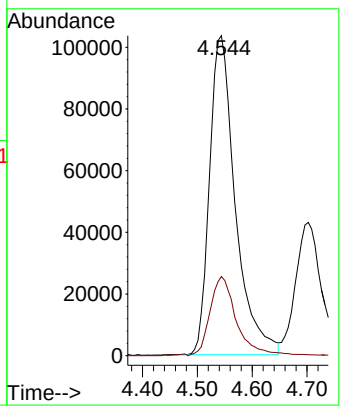
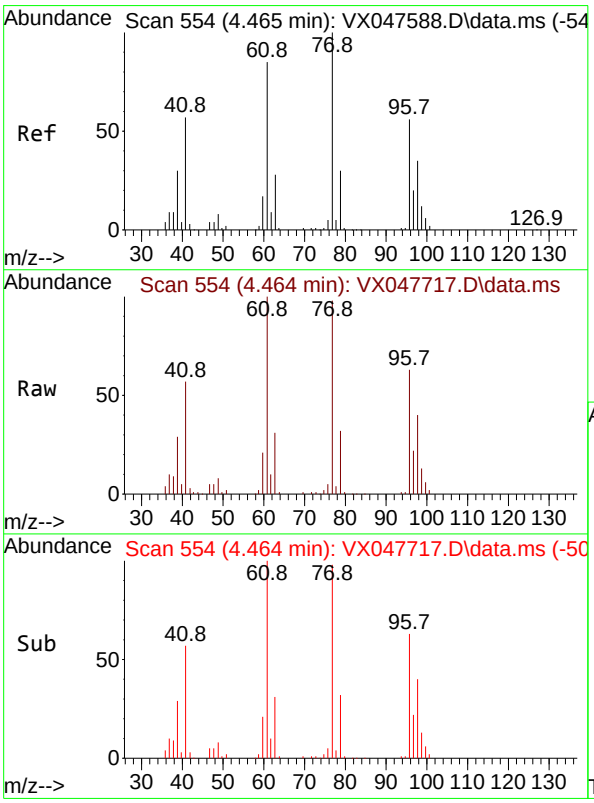
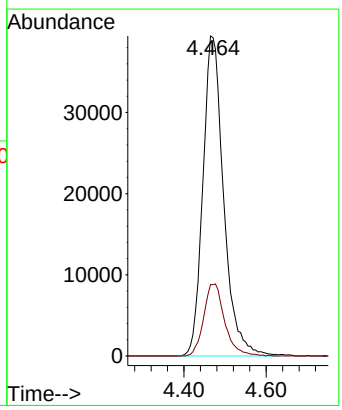


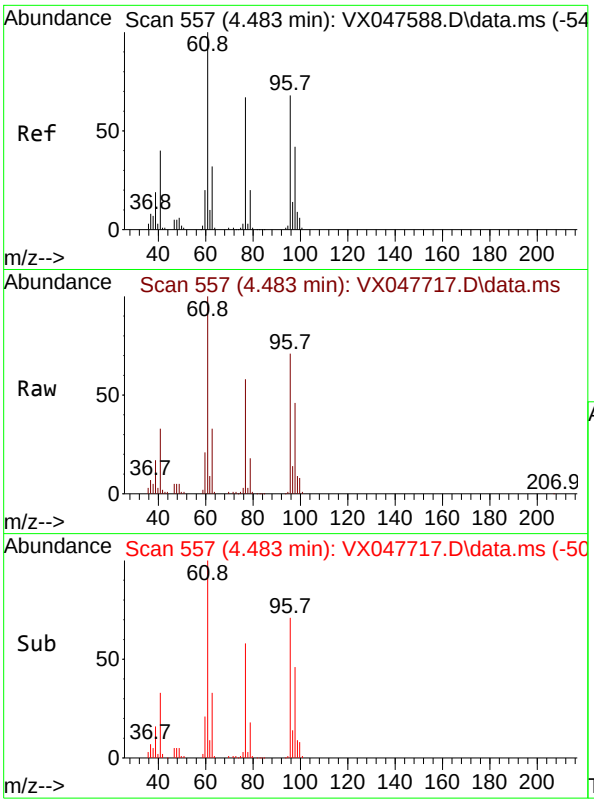


#26
2,2-Dichloropropane
Concen: 43.525 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 77 Resp: 138210

Ion	Ratio	Lower	Upper
77	100		
97	22.7	10.9	32.7

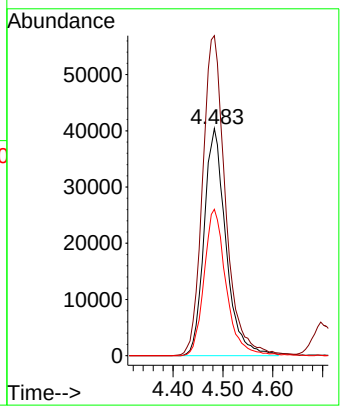




#27
cis-1,2-Dichloroethene
Concen: 51.917 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 96 Resp: 12302

Ion	Ratio	Lower	Upper
96	100		
61	147.9	0.0	303.2
98	64.8	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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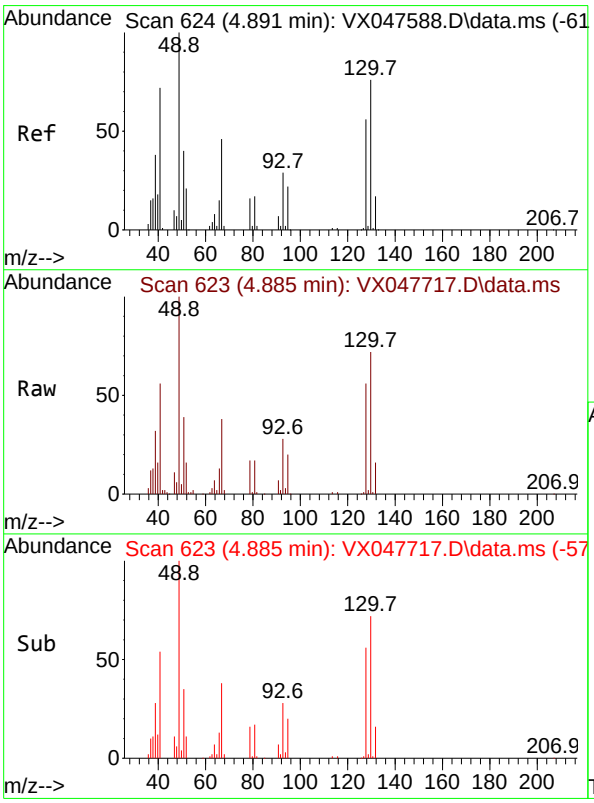
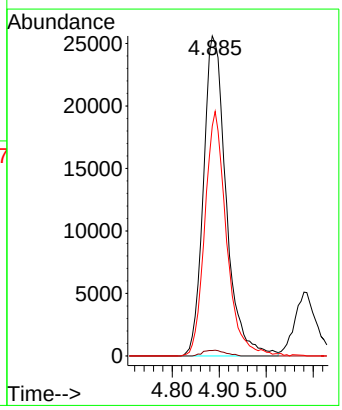
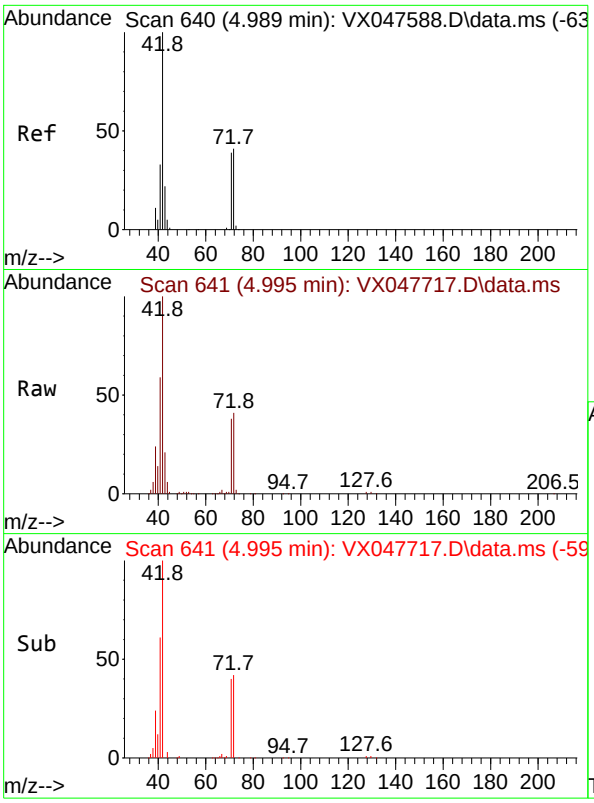


#28
Bromochloromethane
Concen: 51.404 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 49 Resp: 85726

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.9	57.8	86.8

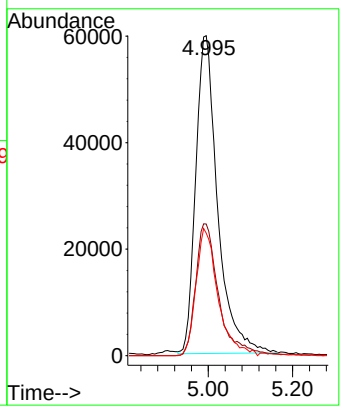




#29
Tetrahydrofuran
Concen: 274.899 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 42 Resp: 21595

Ion	Ratio	Lower	Upper
42	100		
72	43.7	34.2	51.2
71	40.0	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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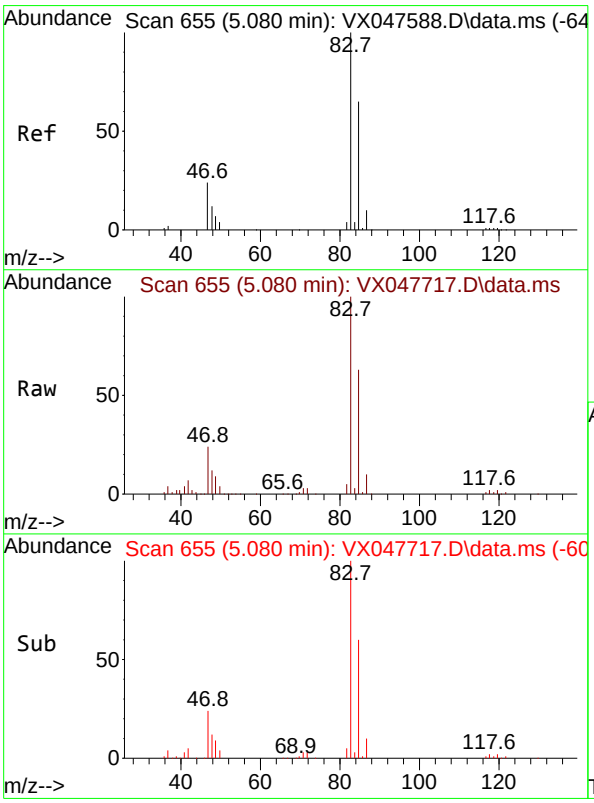
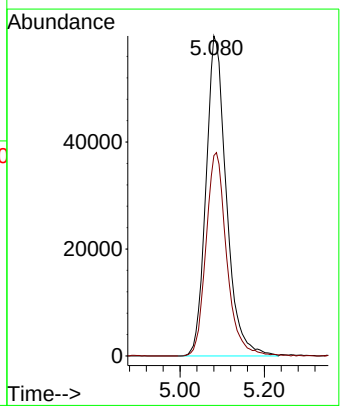
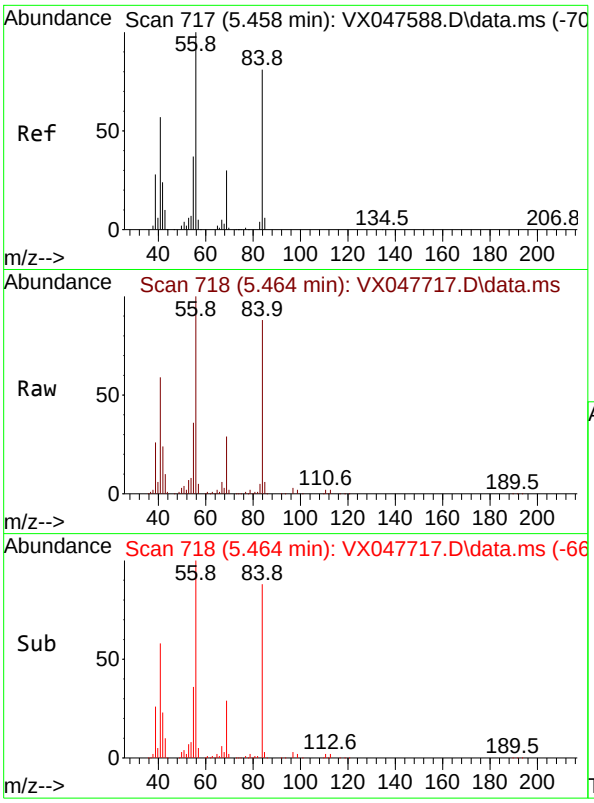


#30
Chloroform
Concen: 51.979 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 83 Resp: 200652

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.8	77.6

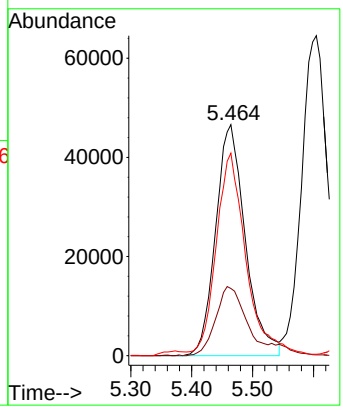




#31
Cyclohexane
Concen: 49.517 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 56 Resp: 15754

Ion	Ratio	Lower	Upper
56	100		
69	28.7	23.8	35.8
84	86.0	64.6	97.0



Instrument :
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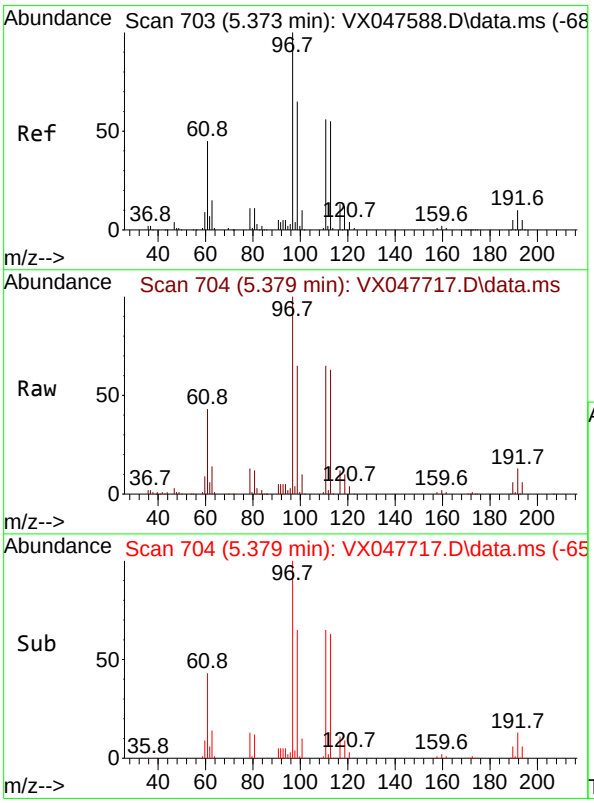
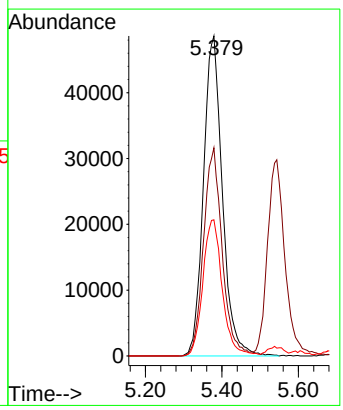
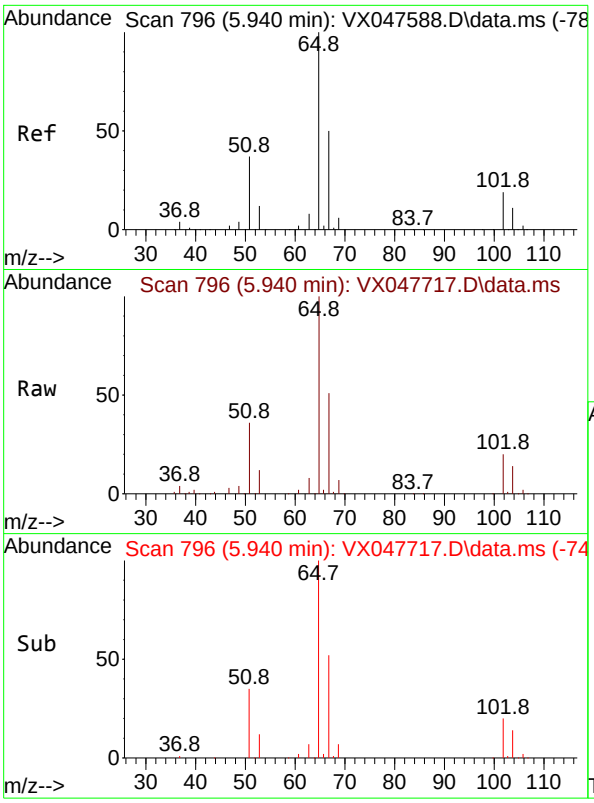


#32
1,1,1-Trichloroethane
Concen: 51.085 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 97 Resp: 167268

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	43.6	35.8	53.8

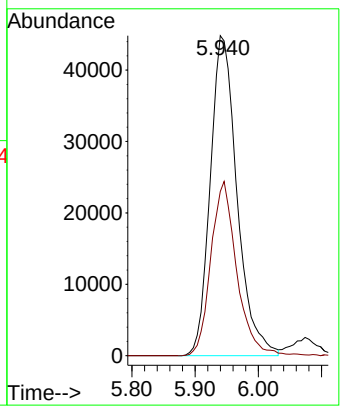




#33
1,2-Dichloroethane-d4
Concen: 54.742 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 65 Resp: 13180

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	103.0



Instrument :
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ClientSampleId :
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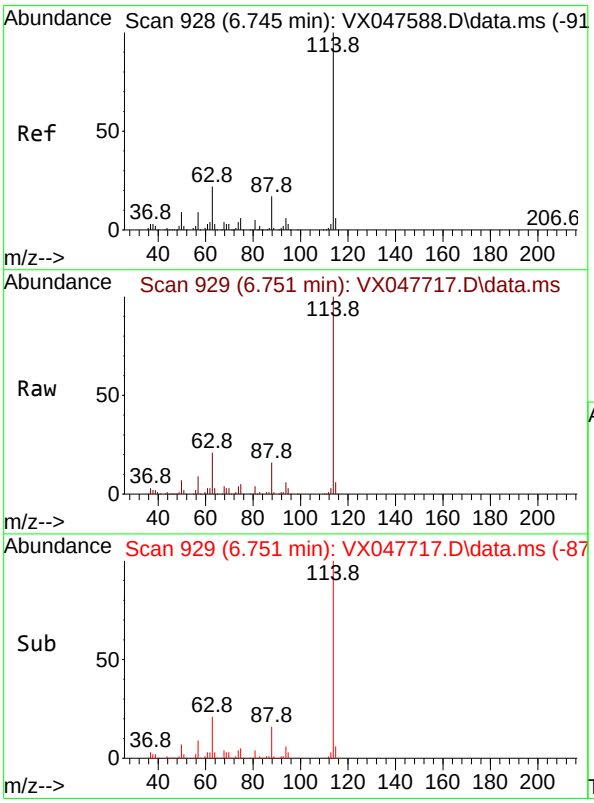
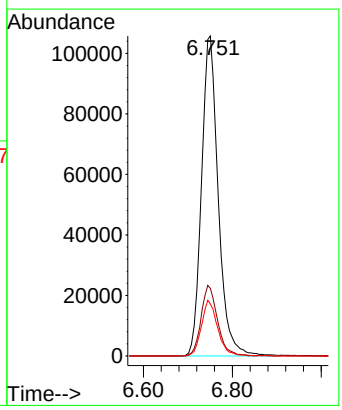
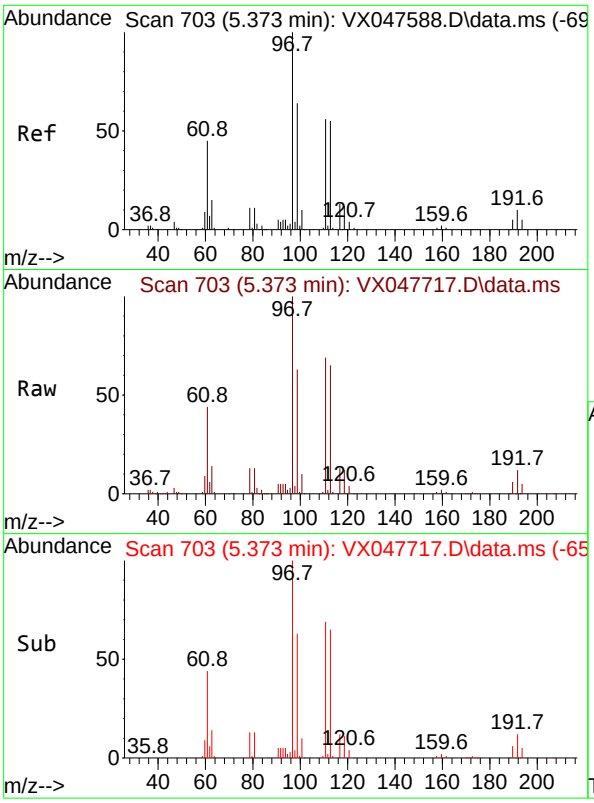


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:114 Resp: 277250

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	44.0
88	16.2	0.0	34.2

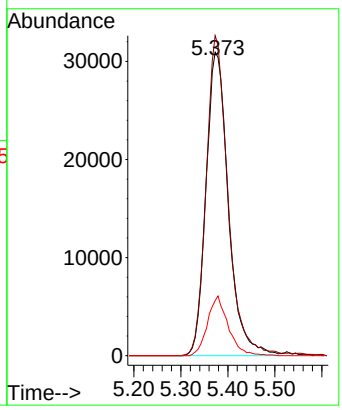




#35
Dibromofluoromethane
Concen: 55.097 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:113 Resp: 10244

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.9	121.3
192	18.3	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
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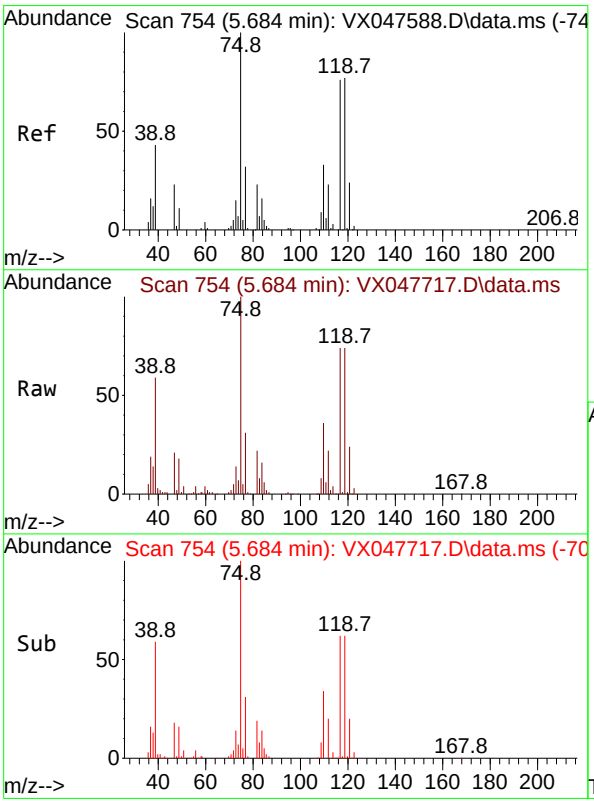
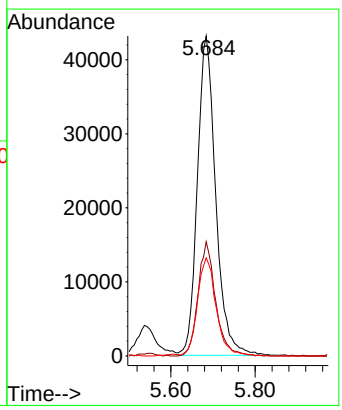
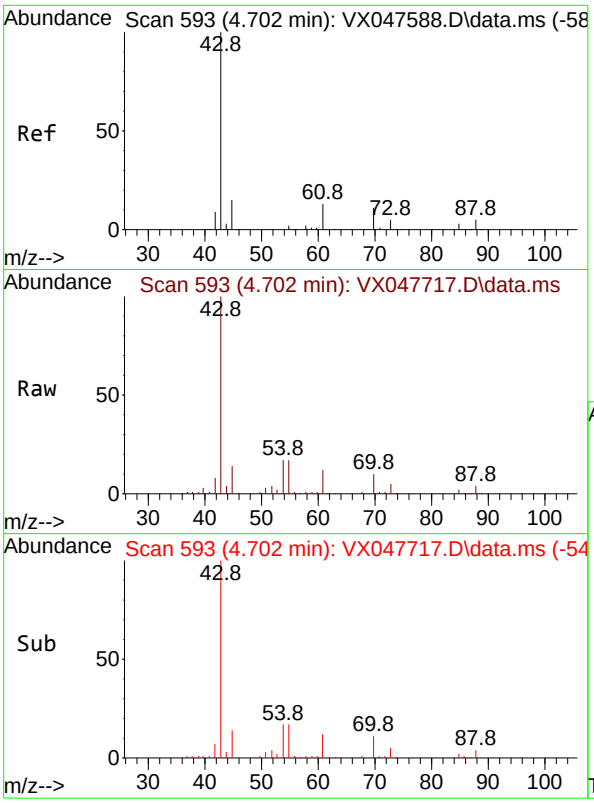


#36
1,1-Dichloropropene
Concen: 48.007 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 130436

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.7	50.1
77	30.9	24.3	36.5





#37
Ethyl Acetate
Concen: 50.836 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 14789

Ion	Ratio	Lower	Upper
43	100		
61	13.5	9.8	14.8
70	9.9	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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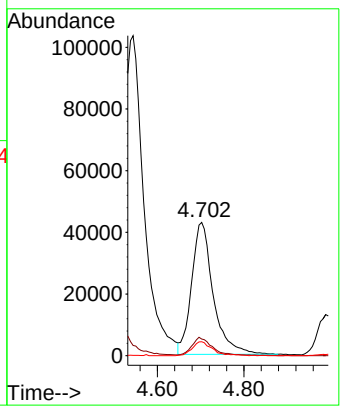
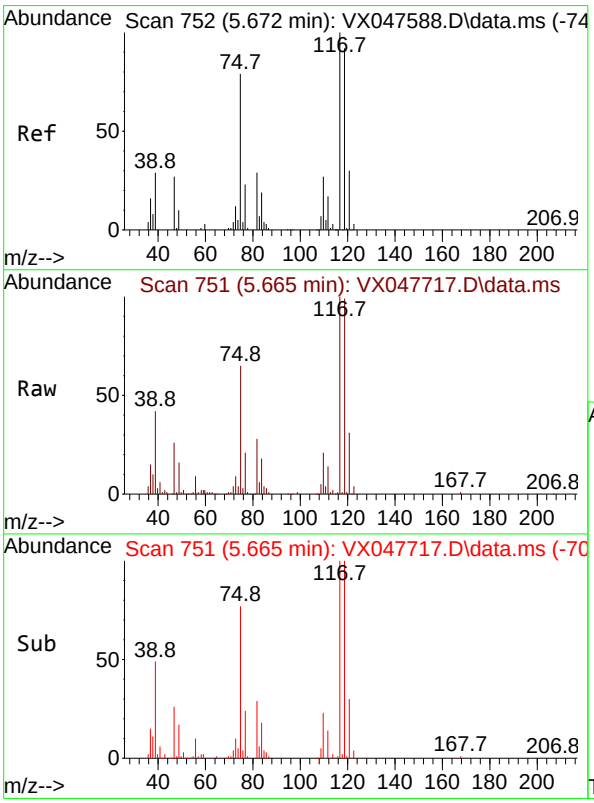
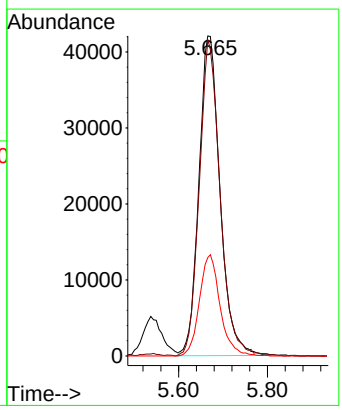


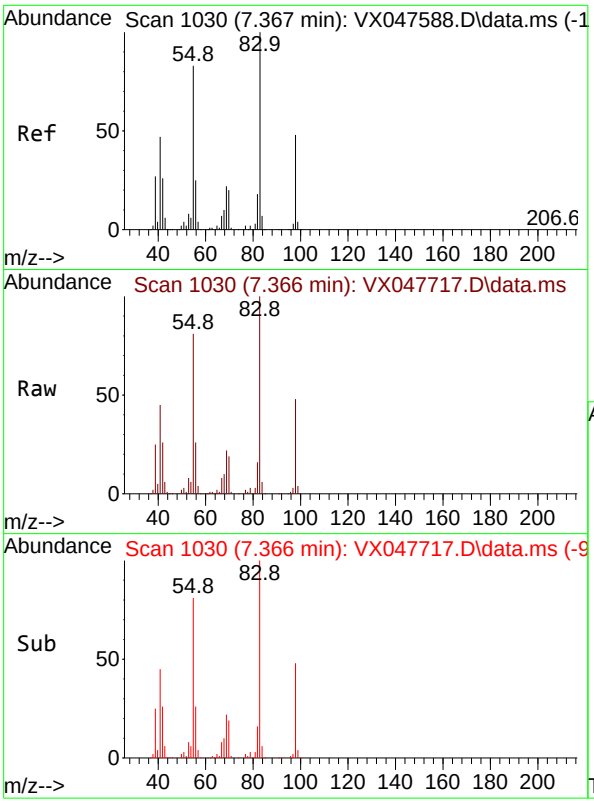


#38
Carbon Tetrachloride
Concen: 47.209 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:117 Resp: 139363

Ion	Ratio	Lower	Upper
117	100		
119	98.8	73.4	110.2
121	30.8	23.8	35.6





#39
Methylcyclohexane
Concen: 48.510 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 83 Resp: 14961

Ion	Ratio	Lower	Upper
83	100		
55	80.7	66.4	99.6
98	48.0	38.1	57.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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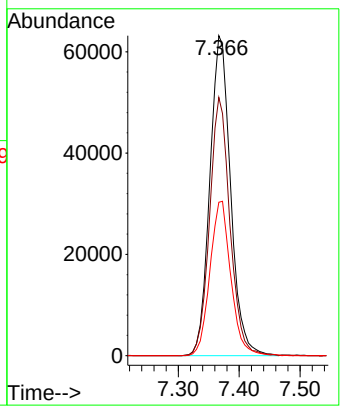
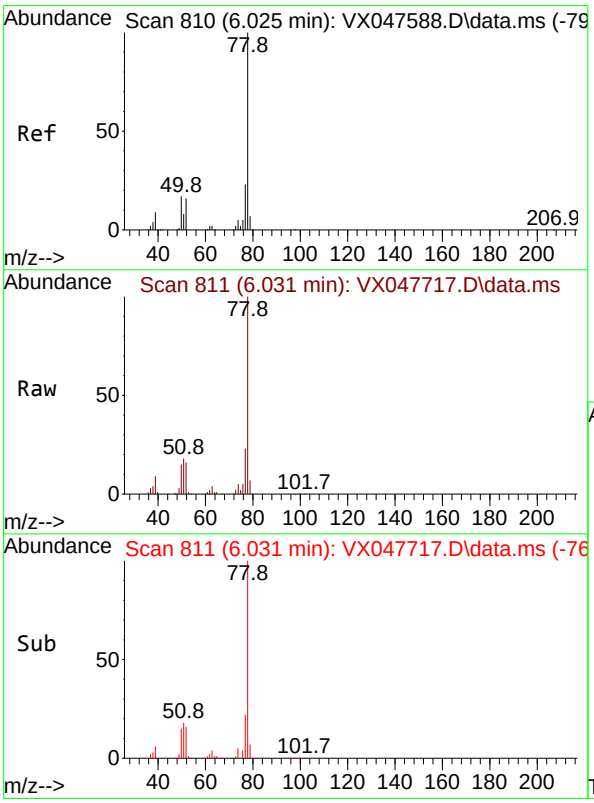
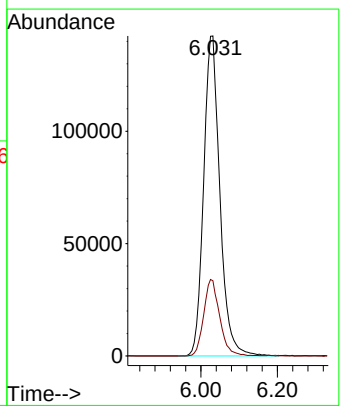


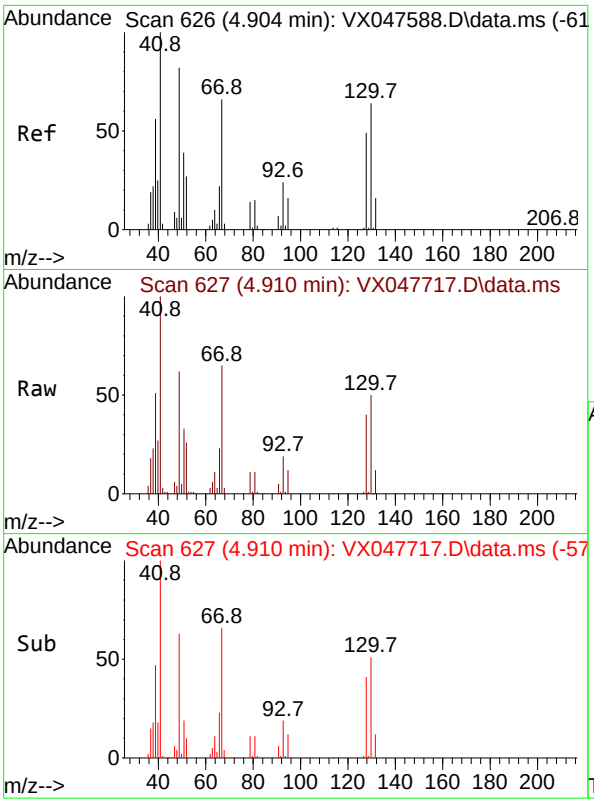


#40
Benzene
Concen: 50.844 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 78 Resp: 419576

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

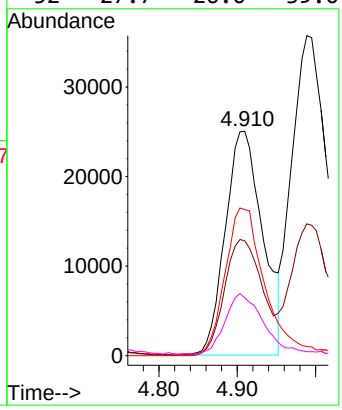




#41
Methacrylonitrile
Concen: 55.388 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 41 Resp: 8318

Ion	Ratio	Lower	Upper
41	100		
39	50.9	43.3	64.9
67	71.8	58.6	87.8
52	27.7	26.0	39.0



Instrument :
MSVOA_X
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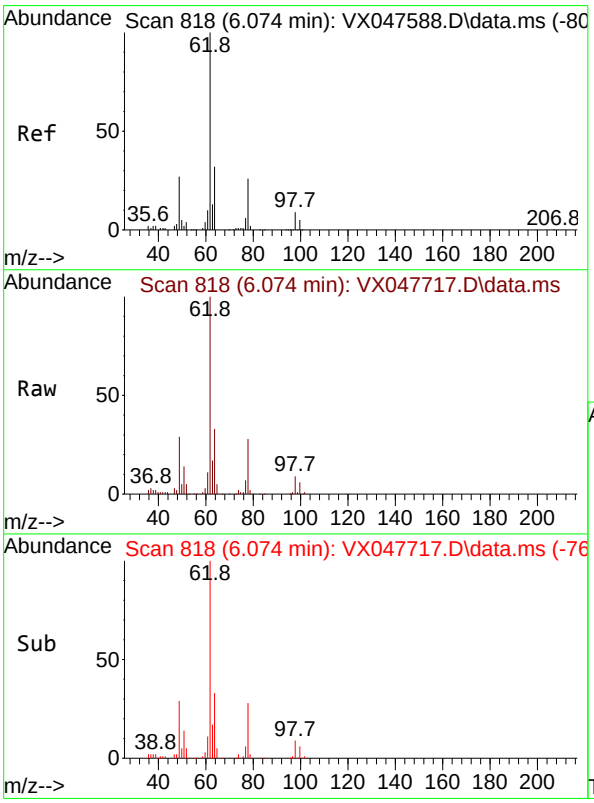
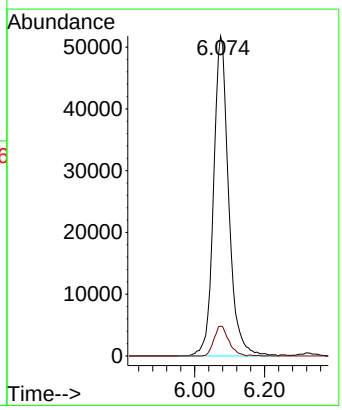
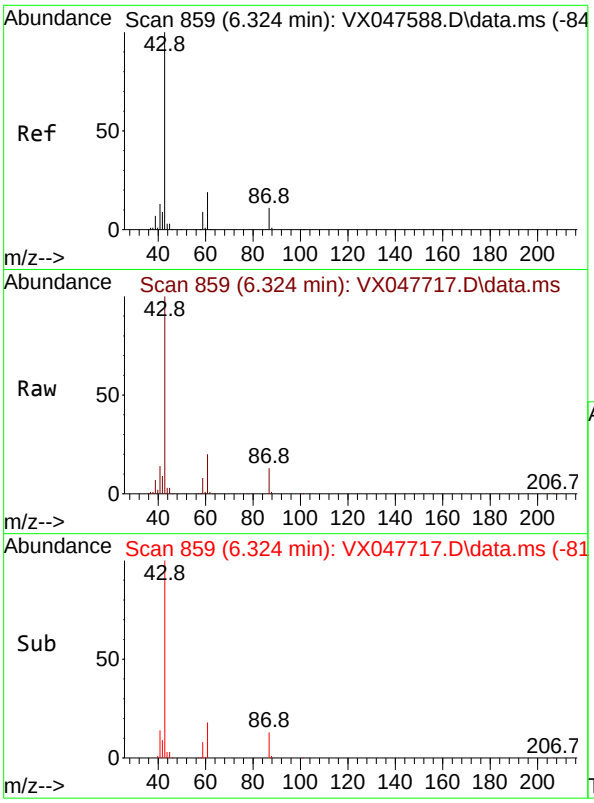


#42
1,2-Dichloroethane
Concen: 49.515 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 62 Resp: 155471

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0

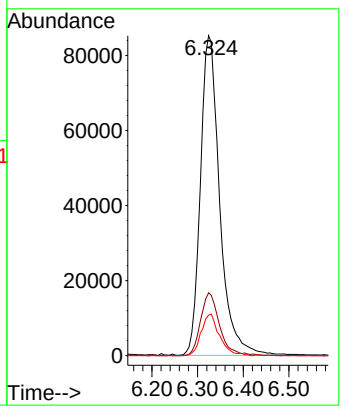




#43
Isopropyl Acetate
Concen: 52.355 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 24979

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.3	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
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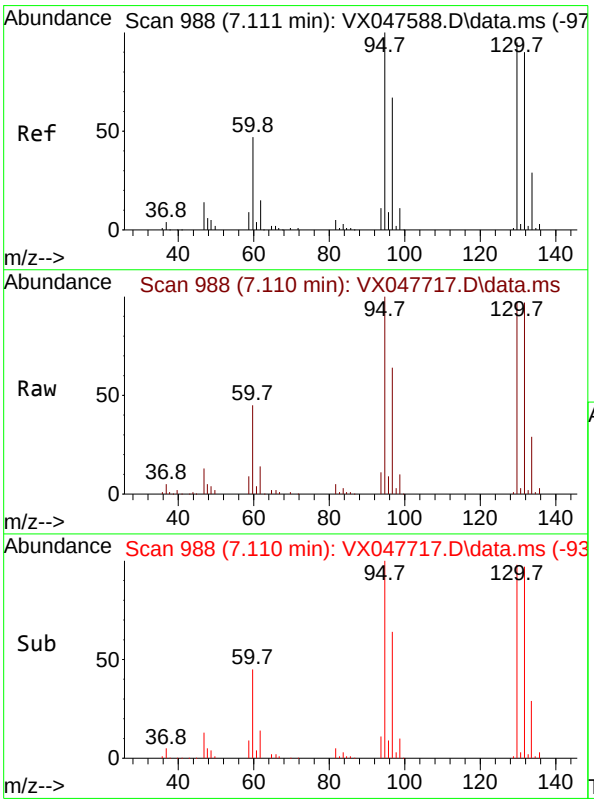
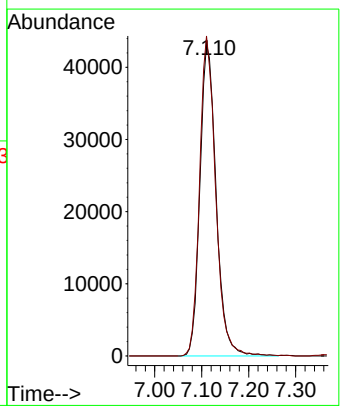
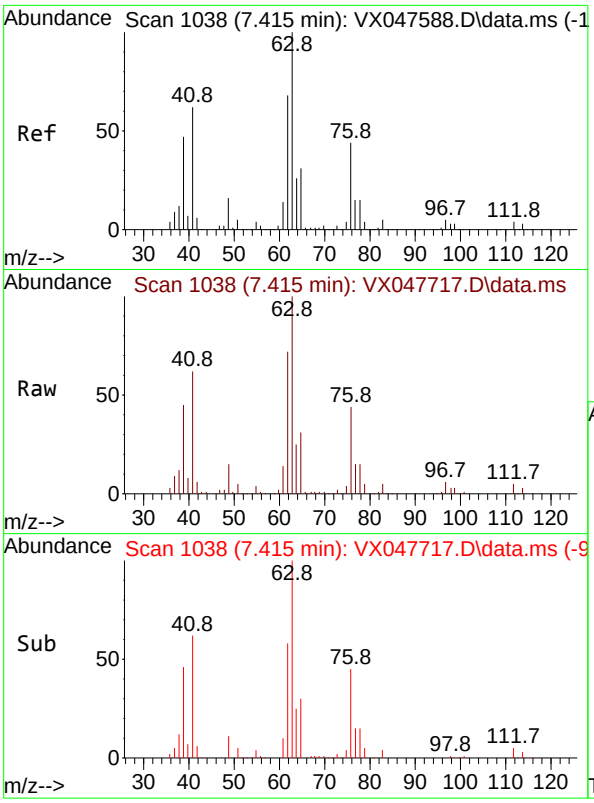


#44
Trichloroethene
Concen: 52.011 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:130 Resp: 103766

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	210.8





#45
1,2-Dichloropropane
Concen: 51.582 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 63 Resp: 10899

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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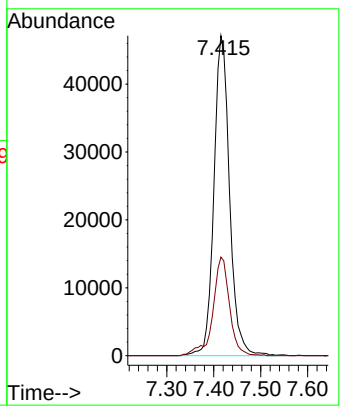
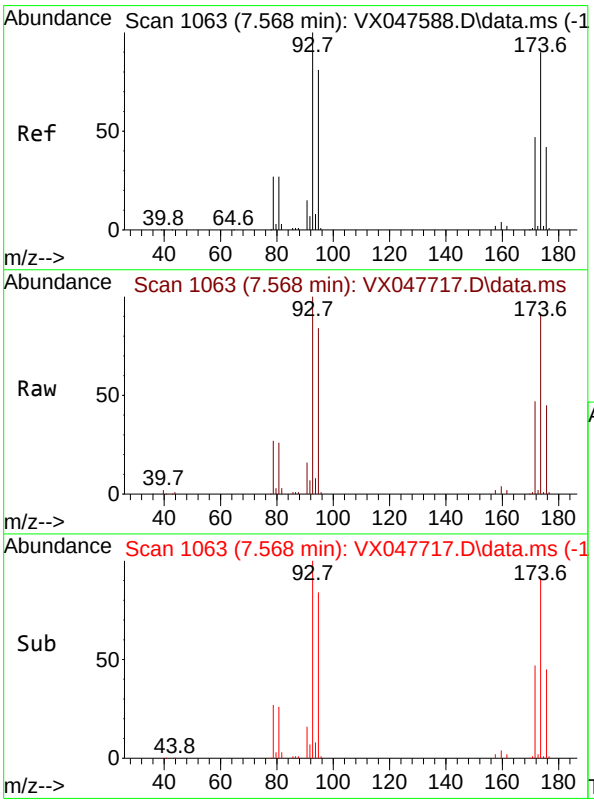
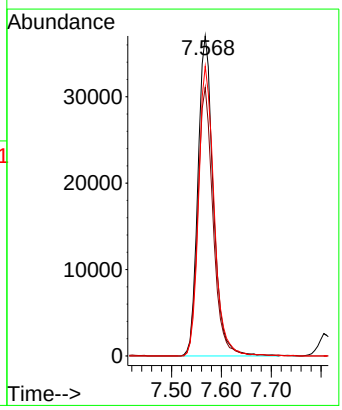


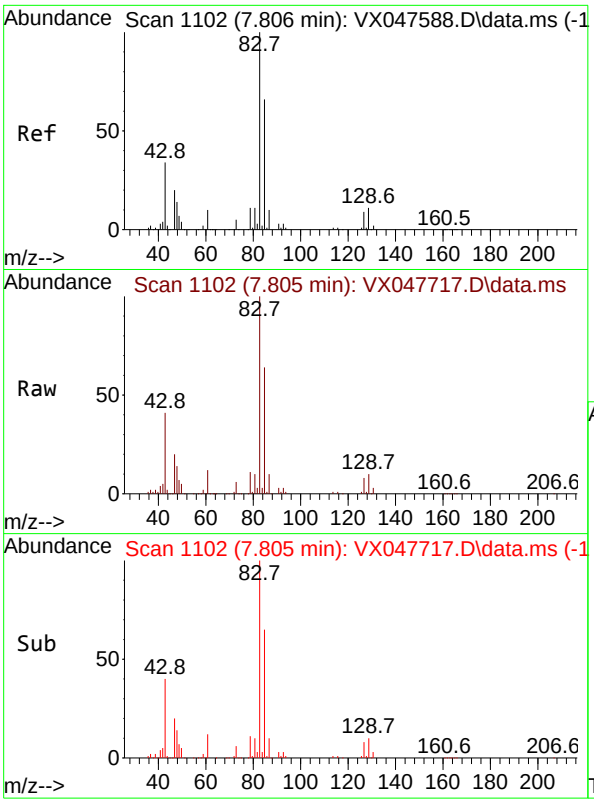


#46
Dibromomethane
Concen: 51.526 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 93 Resp: 79231

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.0	97.6
174	91.4	71.6	107.4

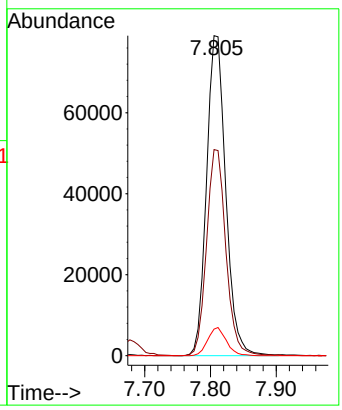




#47
Bromodichloromethane
Concen: 50.680 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 83 Resp: 16081

Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.5	78.7
127	8.3	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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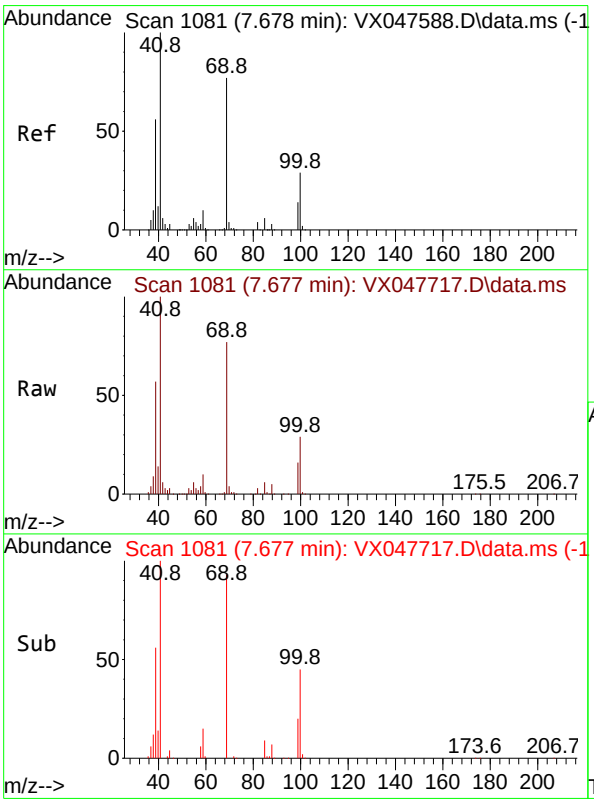
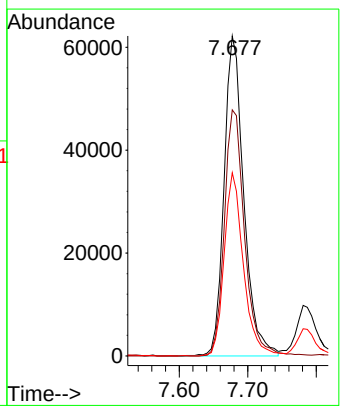
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

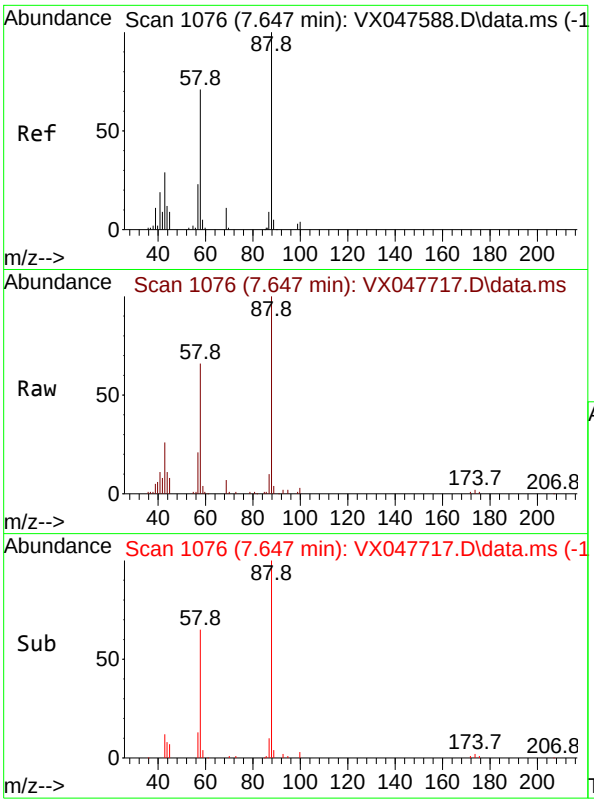


#48
Methyl methacrylate
Concen: 52.179 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 41 Resp: 124008

Ion	Ratio	Lower	Upper
41	100		
69	79.0	61.4	92.2
39	56.1	45.8	68.6

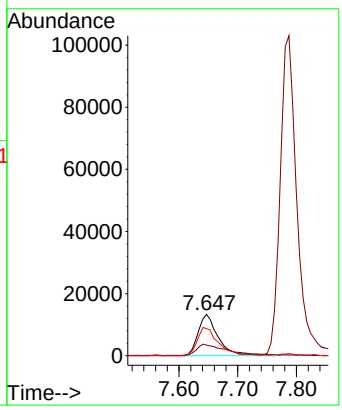




#49
1,4-Dioxane
Concen: 1328.639 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 88 Resp: 3191

Ion	Ratio	Lower	Upper
88	100		
43	35.9	30.2	45.2
58	71.9	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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Reviewed By :John Carlone 09/23/2025
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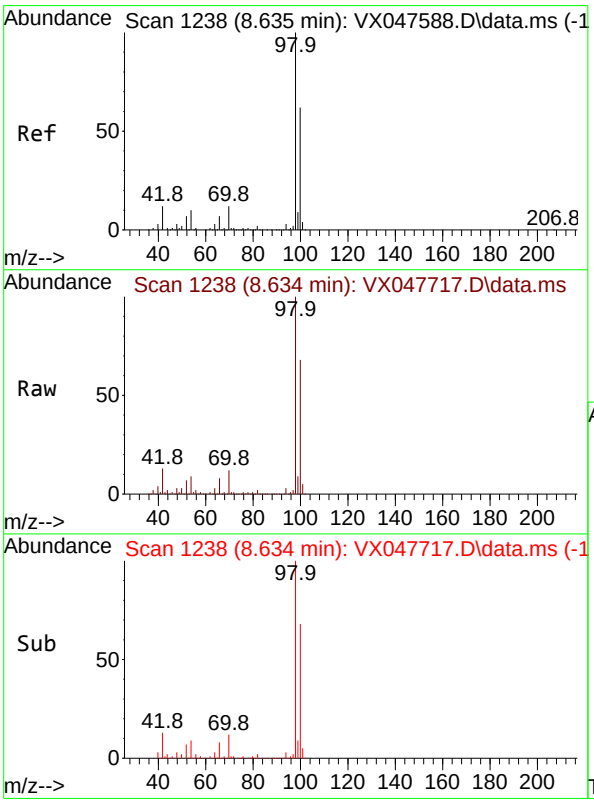
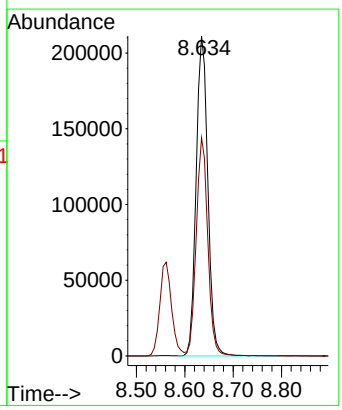
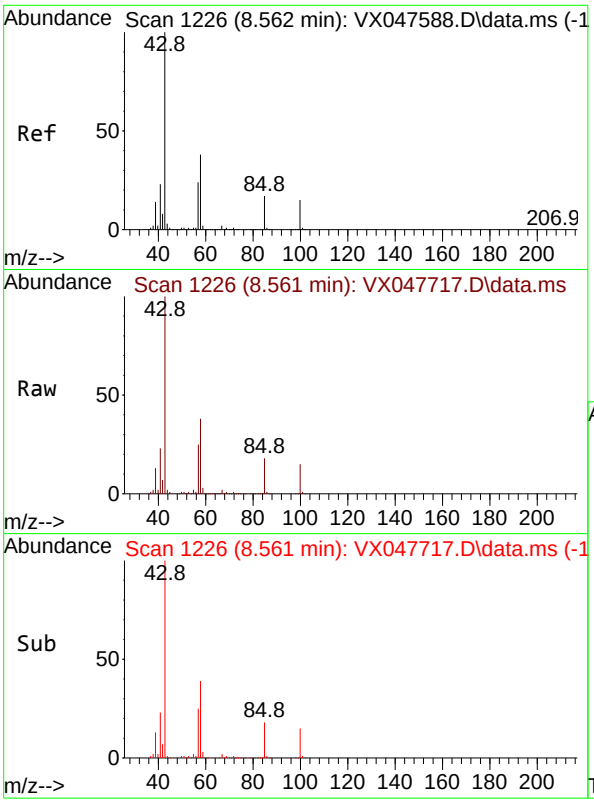


#50
Toluene-d8
Concen: 54.996 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 98 Resp: 353835

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

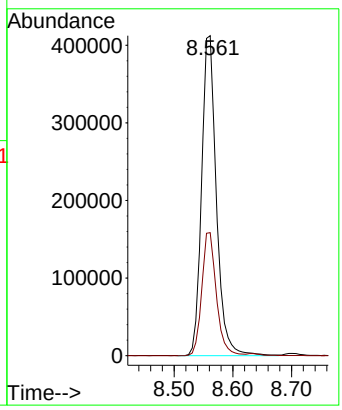




#51
4-Methyl-2-Pentanone
Concen: 272.732 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 72147

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



Instrument :
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ClientSampleId :
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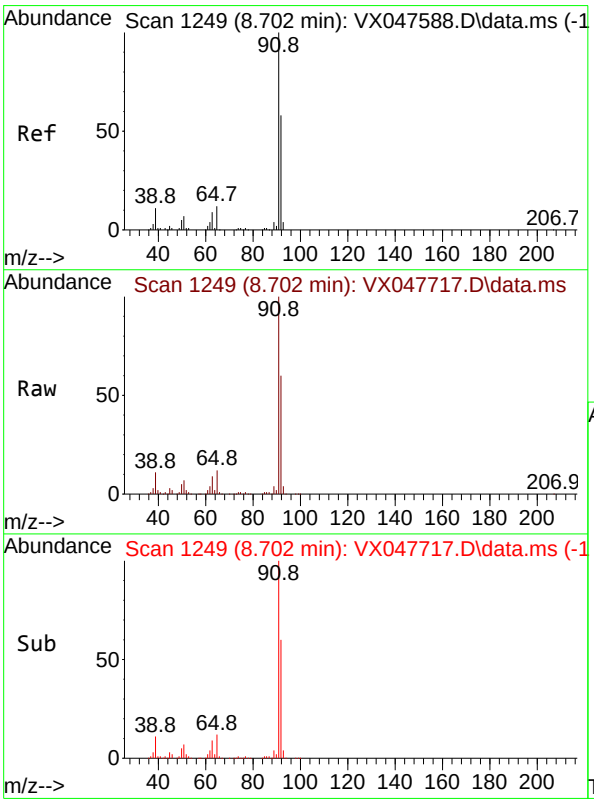
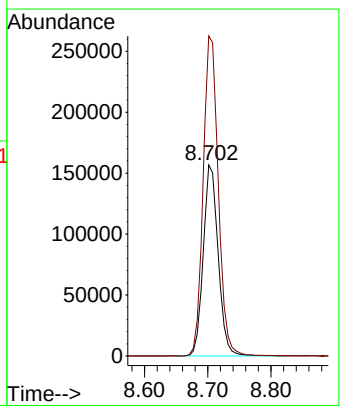
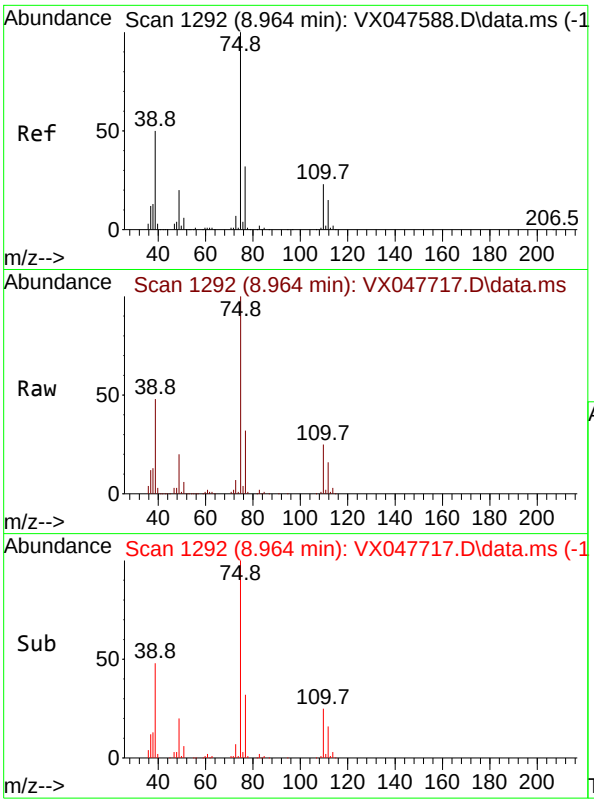


#52
Toluene
Concen: 50.554 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 92 Resp: 257025

Ion	Ratio	Lower	Upper
92	100		
91	170.5	137.1	205.7

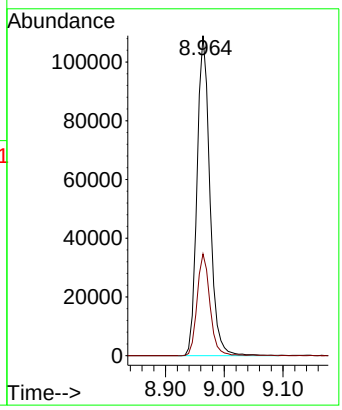




#53
t-1,3-Dichloropropene
Concen: 51.028 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 16515

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
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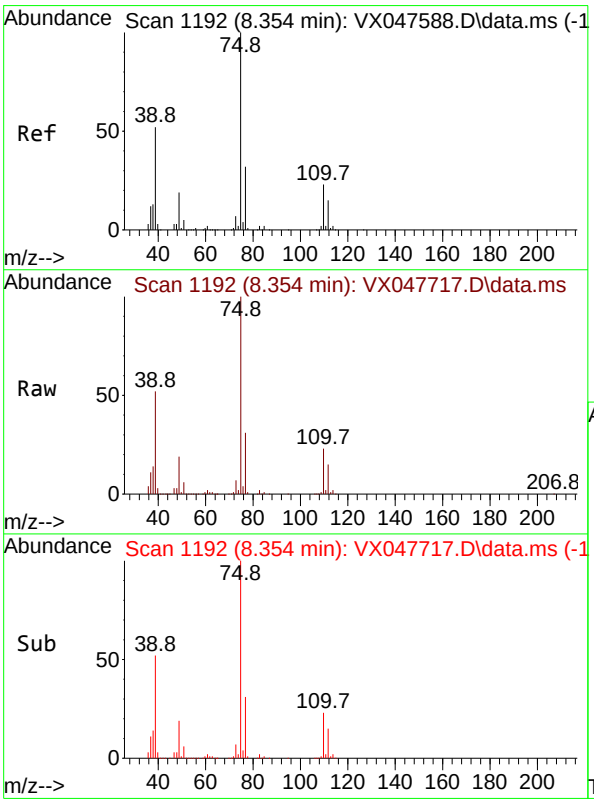
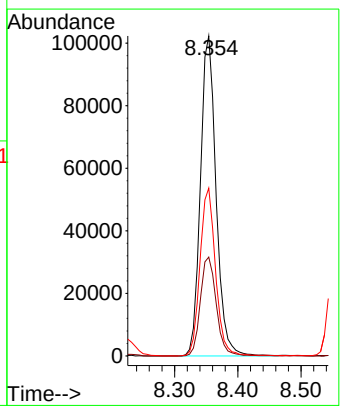
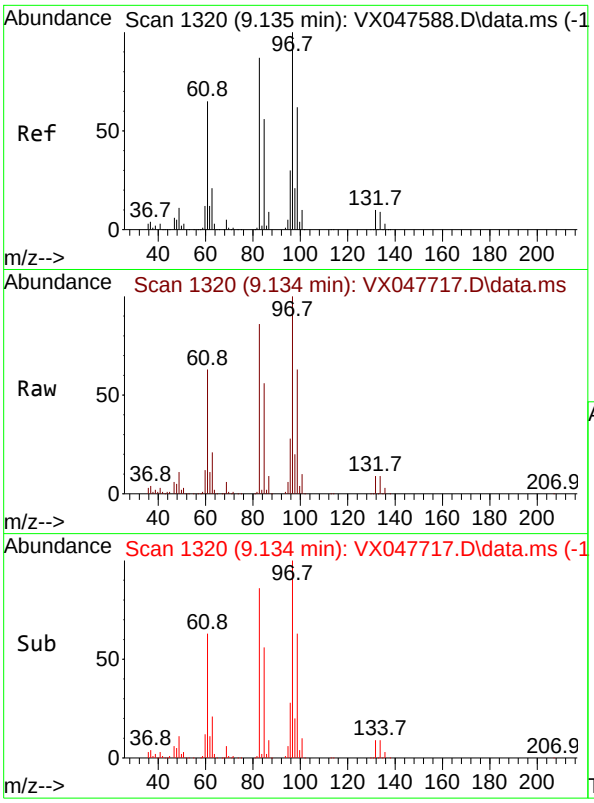


#54
cis-1,3-Dichloropropene
Concen: 51.038 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 176564

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.8	38.6
39	52.4	41.4	62.2

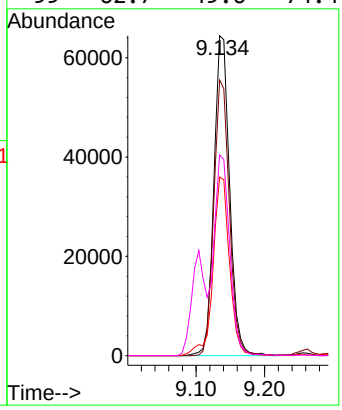




#55
1,1,2-Trichloroethane
Concen: 52.227 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 97 Resp: 10238

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	55.8	45.0	67.6
99	62.7	49.6	74.4



Instrument :
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ClientSampleId :
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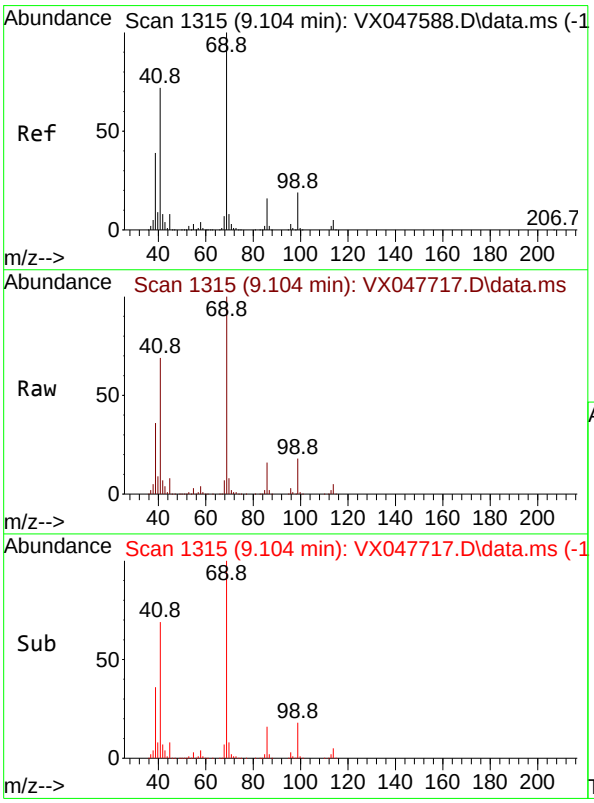
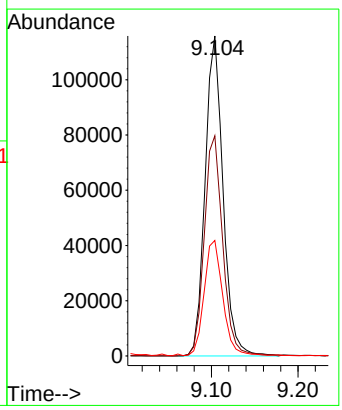
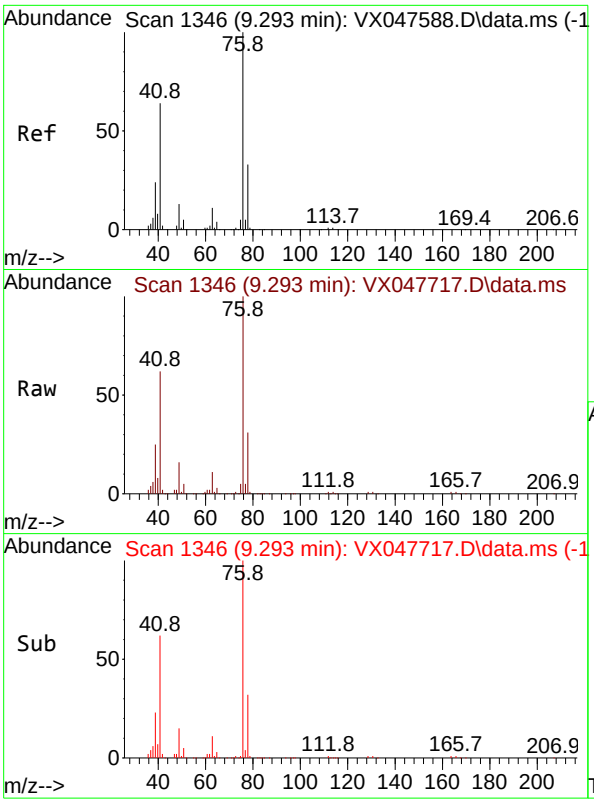


#56
Ethyl methacrylate
Concen: 54.080 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 69 Resp: 166501

Ion	Ratio	Lower	Upper
69	100		
41	71.1	58.6	87.8
39	37.8	31.5	47.3

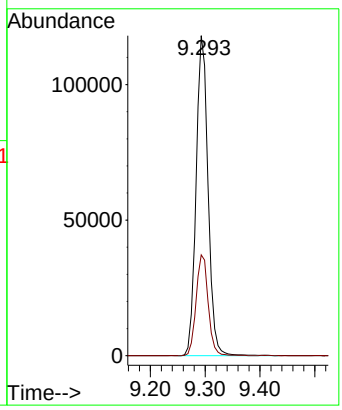




#57
1,3-Dichloropropane
Concen: 53.280 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 76 Resp: 17943

Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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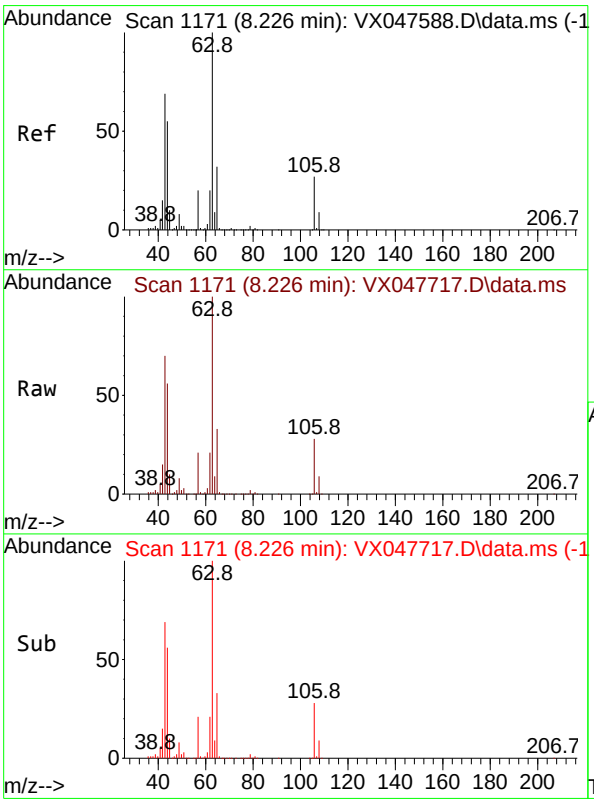
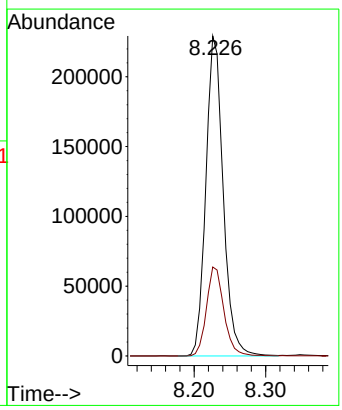
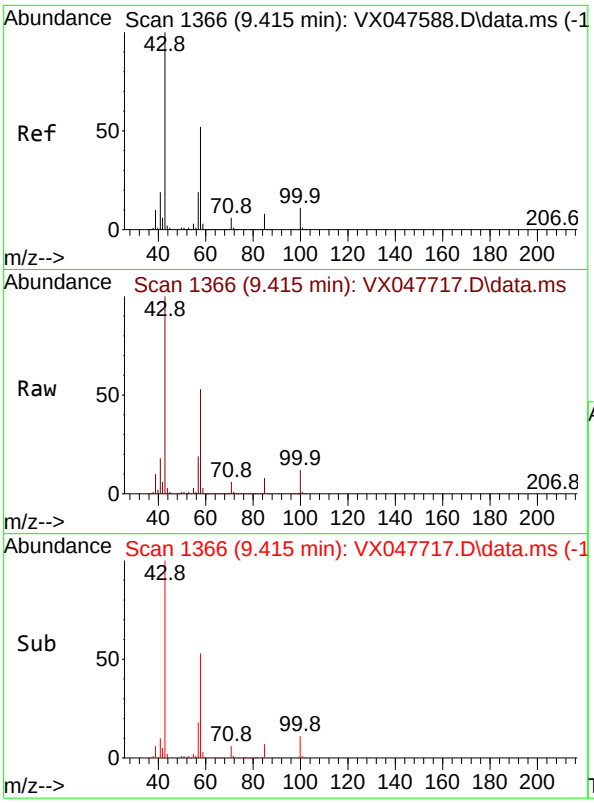


#58
2-Chloroethyl Vinyl ether
Concen: 261.171 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 63 Resp: 385340

Ion	Ratio	Lower	Upper
63	100		
106	28.1	21.9	32.9

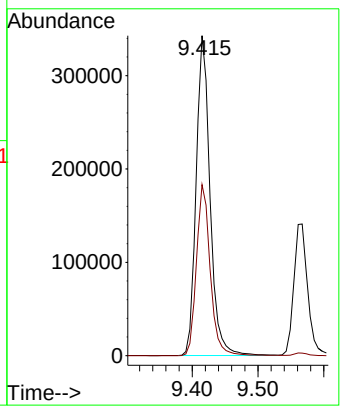




#59
2-Hexanone
Concen: 265.041 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 50355

Ion	Ratio	Lower	Upper
43	100		
58	53.1	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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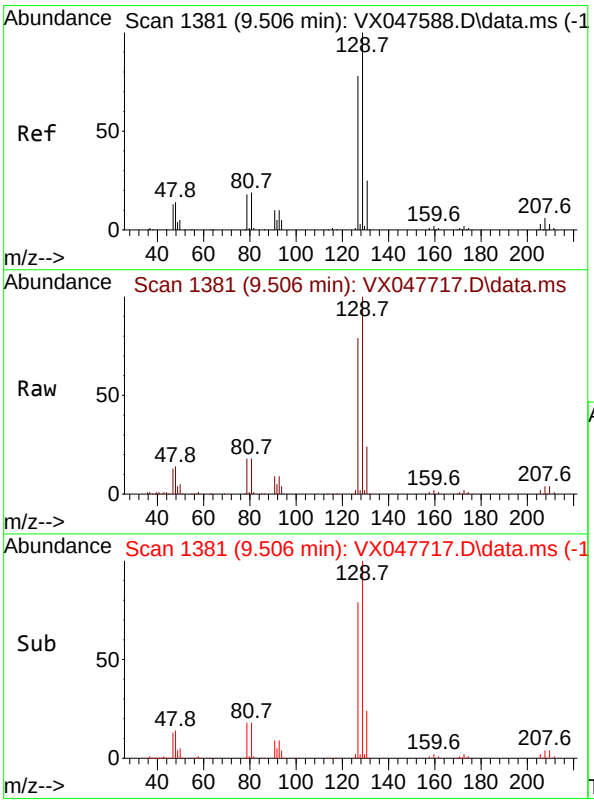
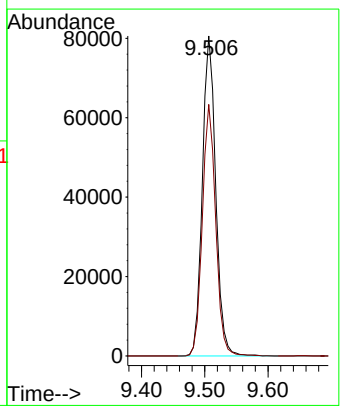
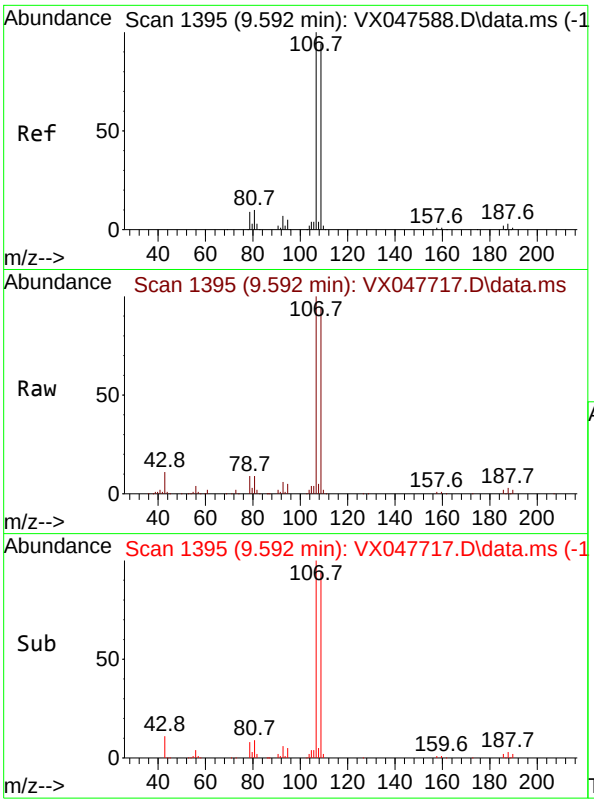


#60
Dibromochloromethane
Concen: 52.563 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:129 Resp: 118732

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.4	115.2





#61
1,2-Dibromoethane
Concen: 53.678 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:107 Resp: 10718

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.3	112.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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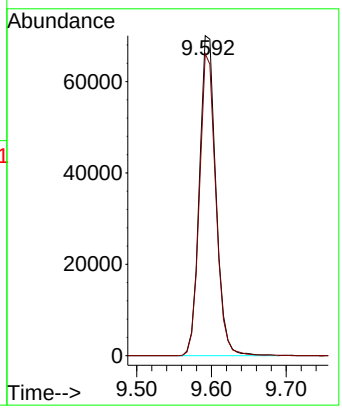
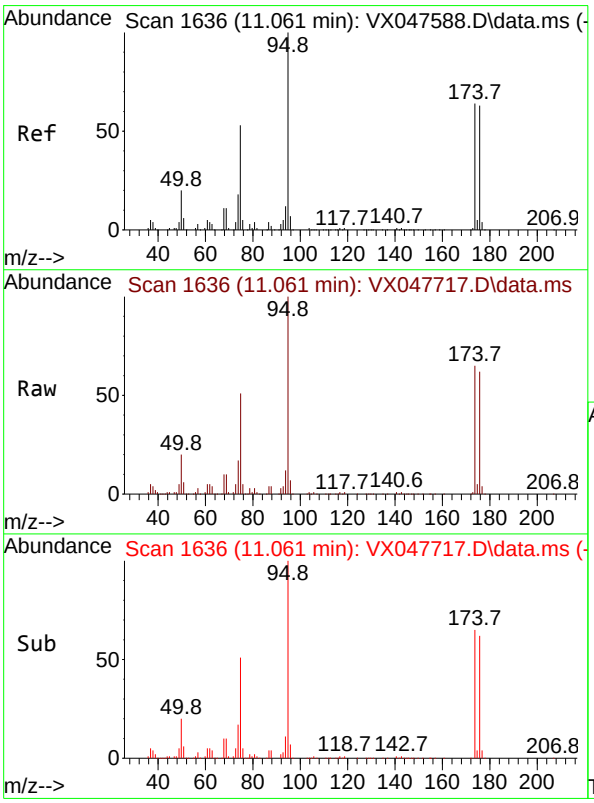
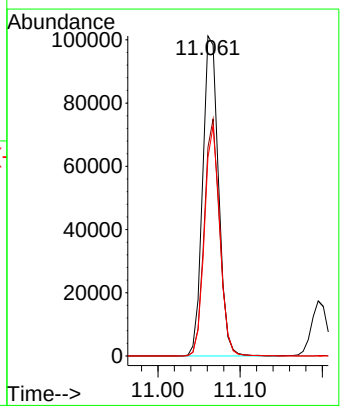


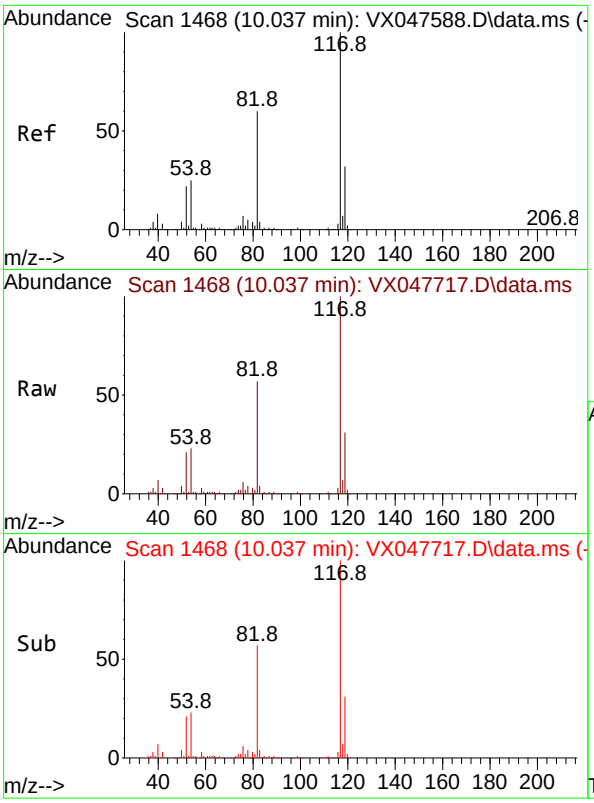


#62
4-Bromofluorobenzene
Concen: 55.527 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 95 Resp: 135585

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.6
176	69.8	0.0	138.4

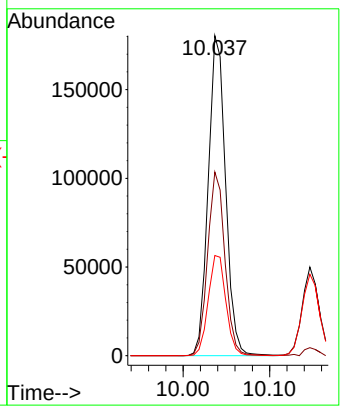




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:117 Resp: 25093

Ion	Ratio	Lower	Upper
117	100		
82	57.4	47.8	71.6
119	31.3	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
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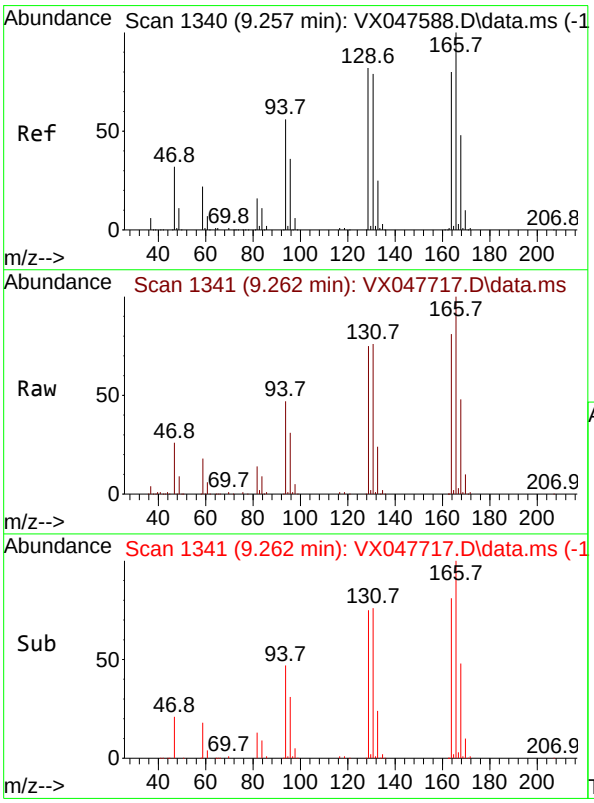
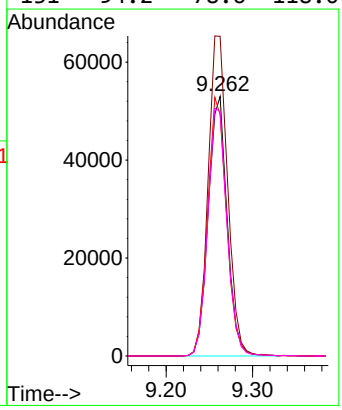
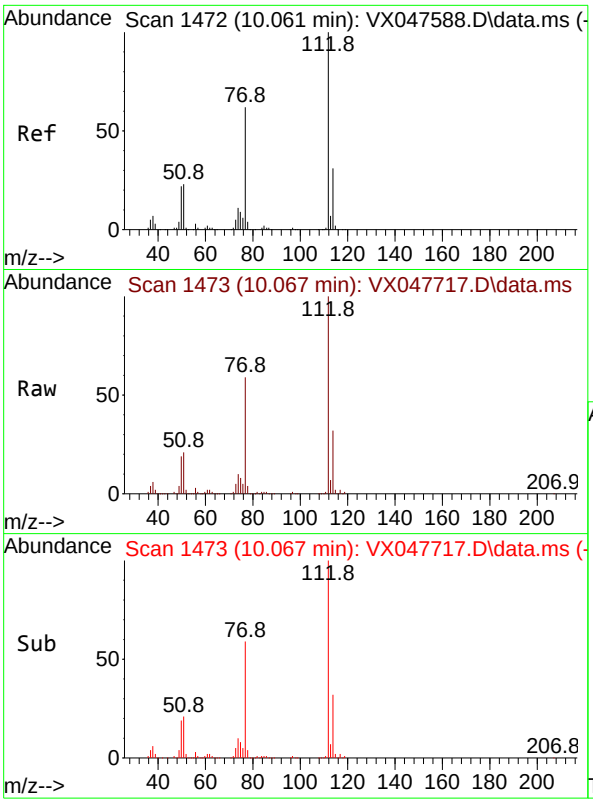


#64
Tetrachloroethene
Concen: 48.896 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:164 Resp: 79987

Ion	Ratio	Lower	Upper
164	100		
166	123.2	100.2	150.2
129	92.9	81.8	122.6
131	94.2	78.6	118.0

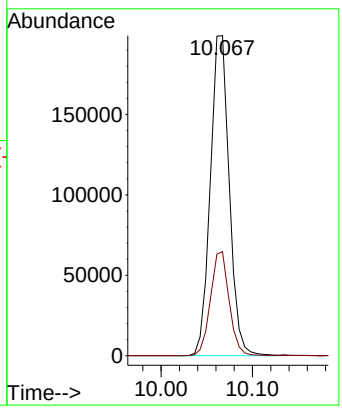




#65
Chlorobenzene
Concen: 50.265 ug/l
RT: 10.067 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:112 Resp: 28655

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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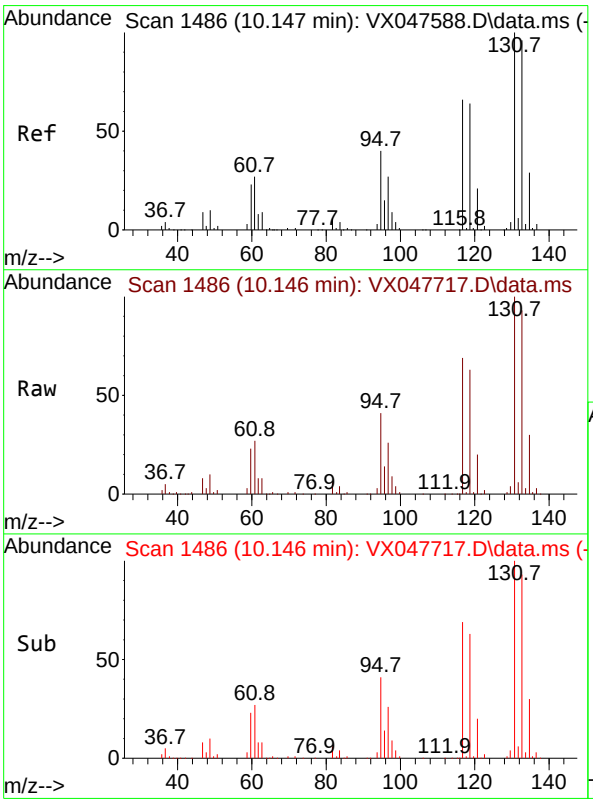
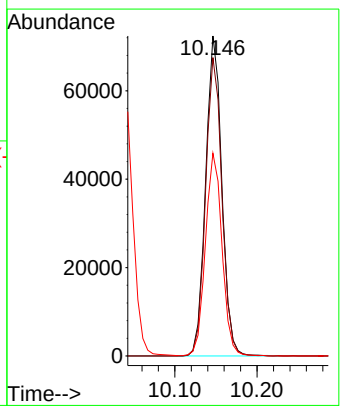
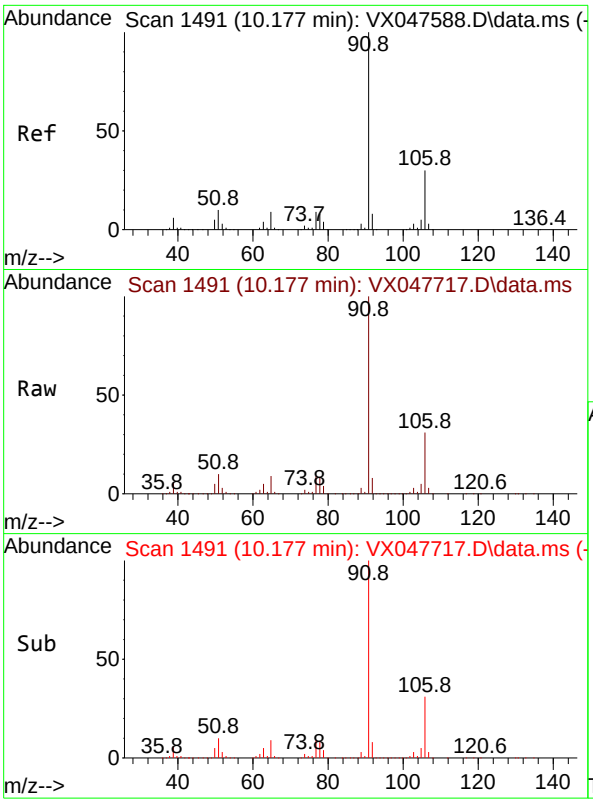


#66
1,1,1,2-Tetrachloroethane
Concen: 50.451 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:131 Resp: 99248

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	142.0
119	65.1	32.0	96.0





#67
Ethyl Benzene
Concen: 49.786 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 91 Resp: 48971

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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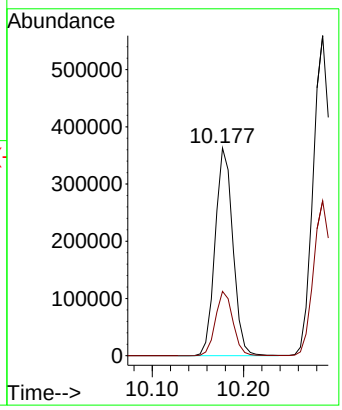
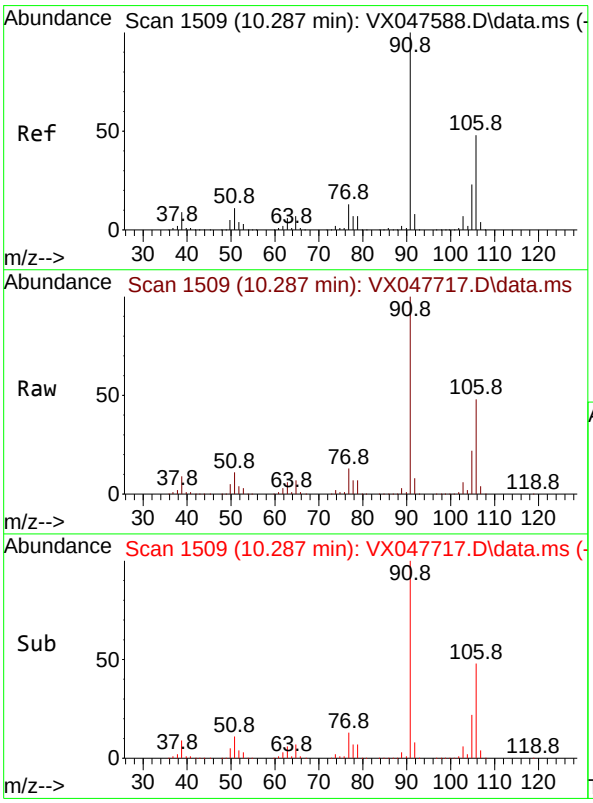
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

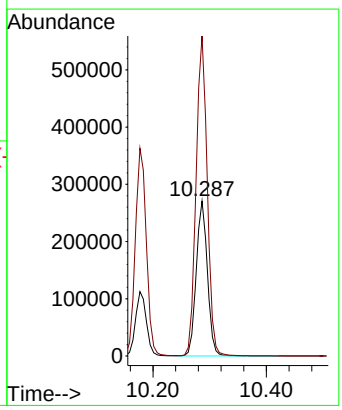


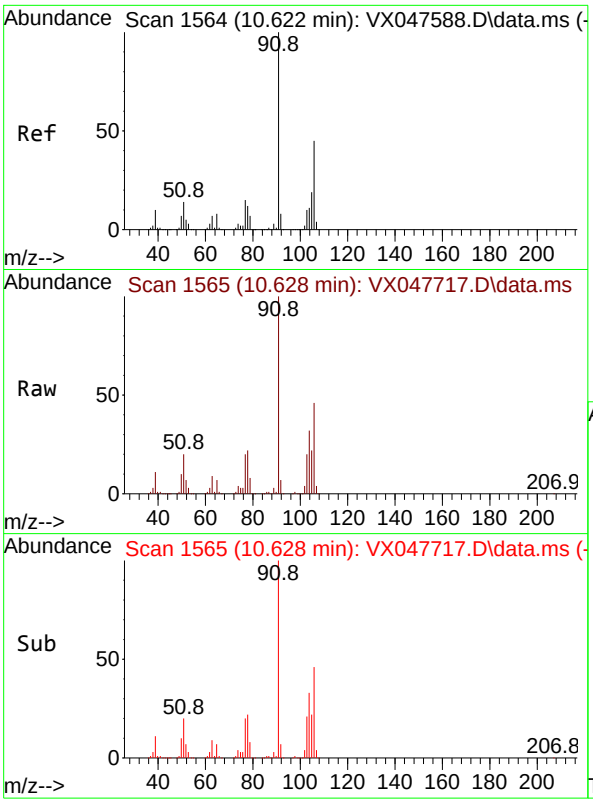


#68
m/p-Xylenes
Concen: 100.842 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:106 Resp: 369200

Ion	Ratio	Lower	Upper
106	100		
91	206.6	167.8	251.8

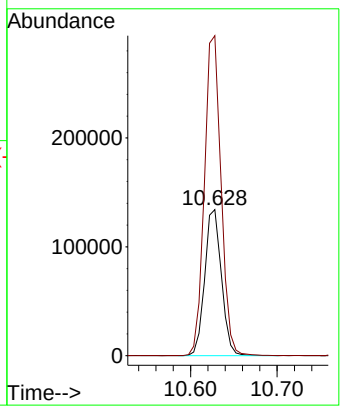




#69
o-Xylene
Concen: 50.827 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:106 Resp: 17999

Ion	Ratio	Lower	Upper
106	100		
91	218.4	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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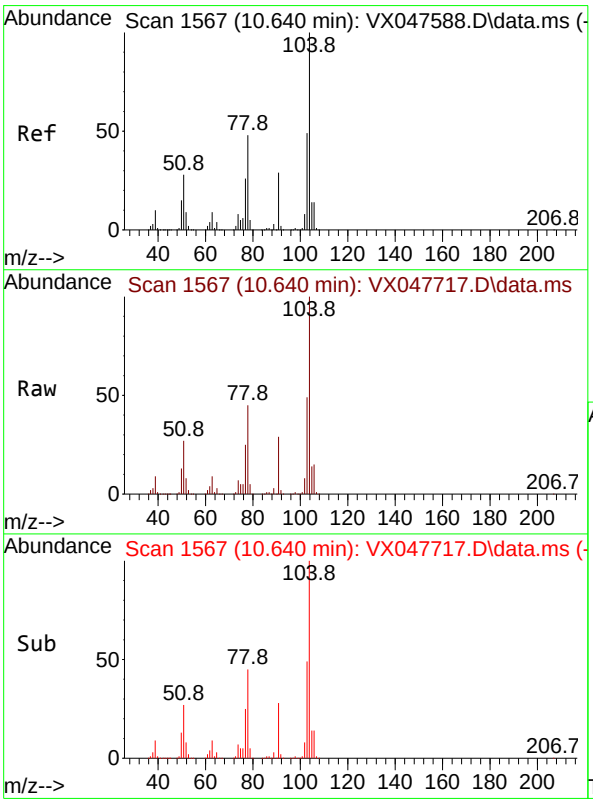
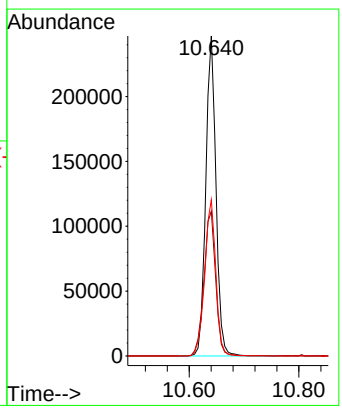
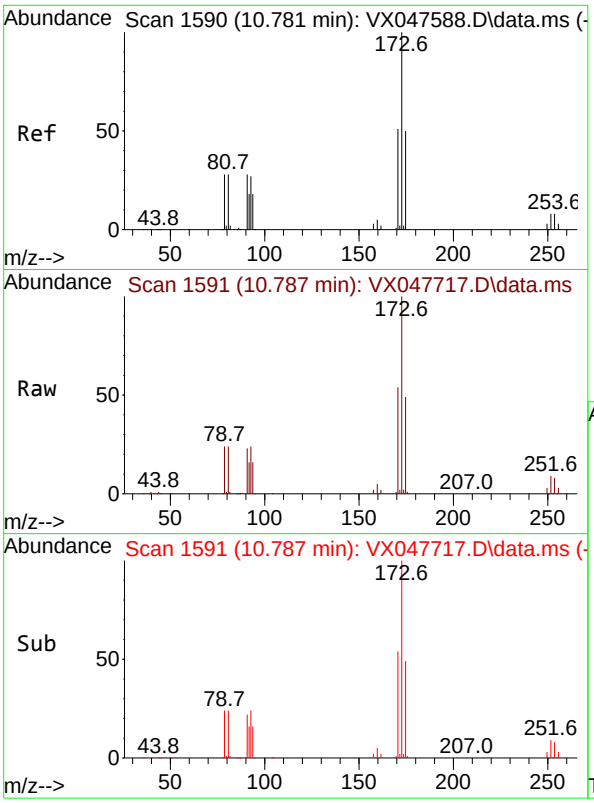


#70
Styrene
Concen: 51.041 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:104 Resp: 316706

Ion	Ratio	Lower	Upper
104	100		
78	52.0	43.1	64.7
103	53.5	43.1	64.7

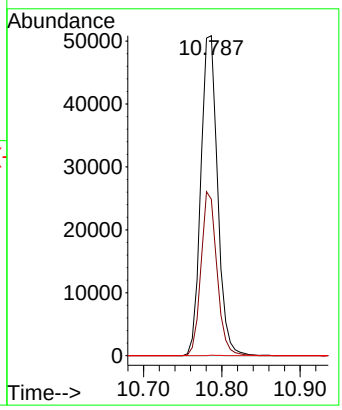




#71
Bromoform
Concen: 51.349 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:173 Resp: 7542

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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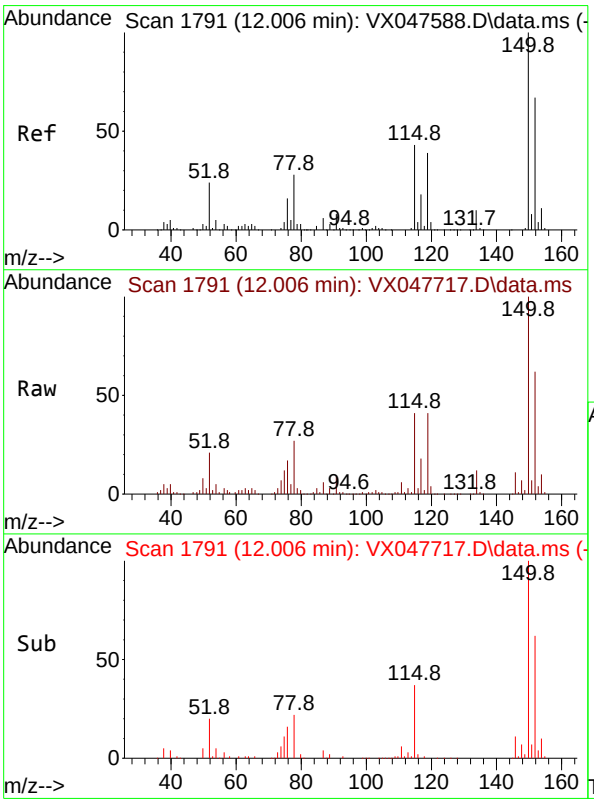
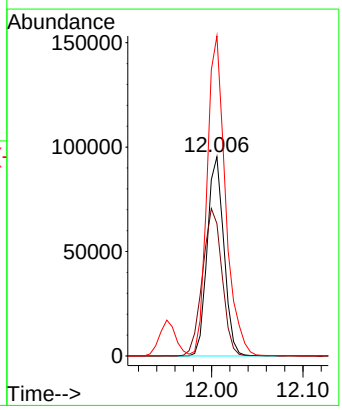
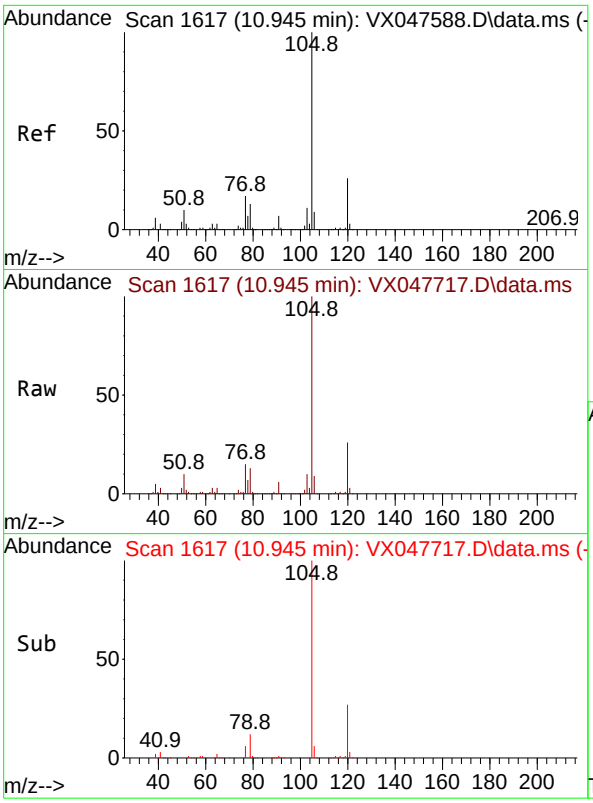


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:152 Resp: 120316

Ion	Ratio	Lower	Upper
152	100		
115	87.0	44.9	134.5
150	177.2	0.0	352.0

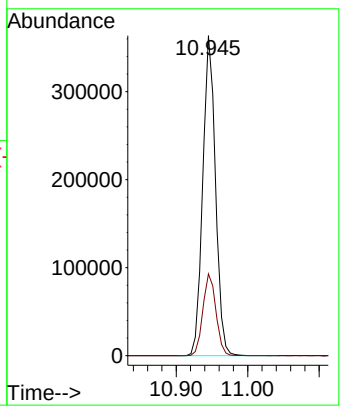




#73
Isopropylbenzene
Concen: 49.195 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:105 Resp: 44999

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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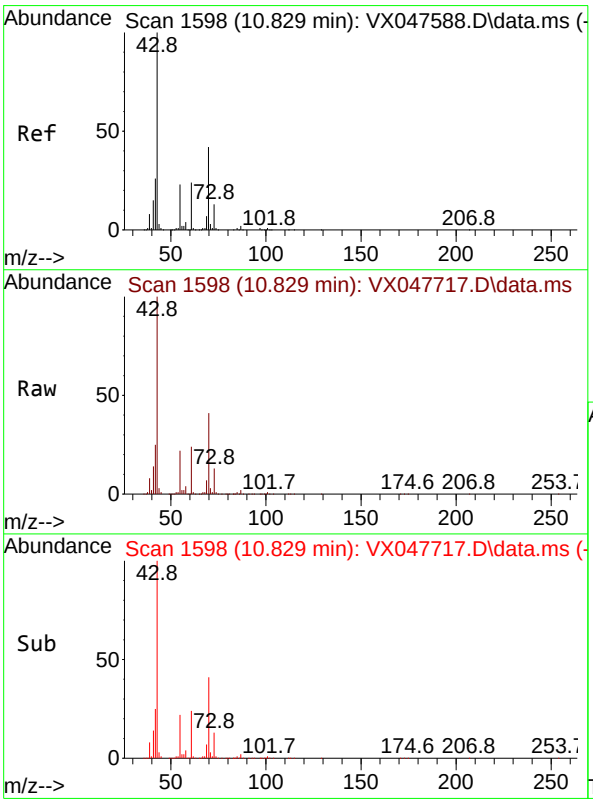
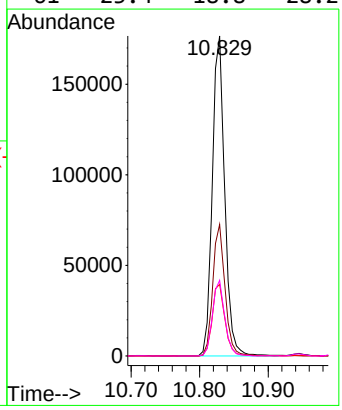
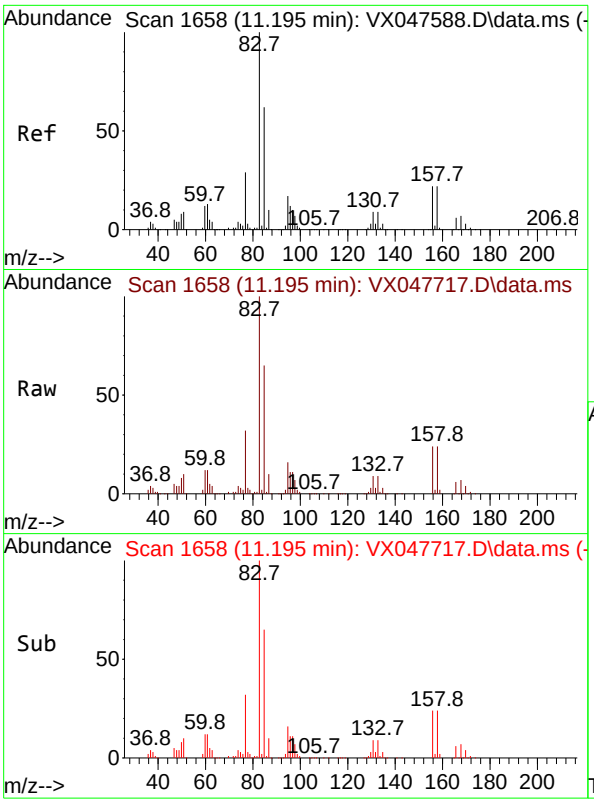


#74
N-amyl acetate
Concen: 53.334 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 222470

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	23.0	18.9	28.3
61	23.4	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 52.707 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 83 Resp: 14586

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.0	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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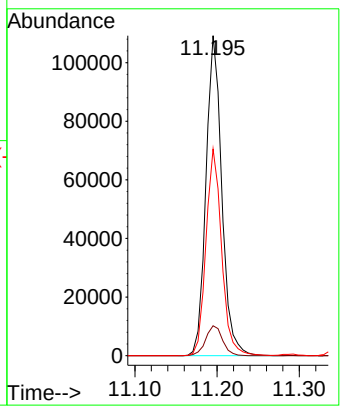
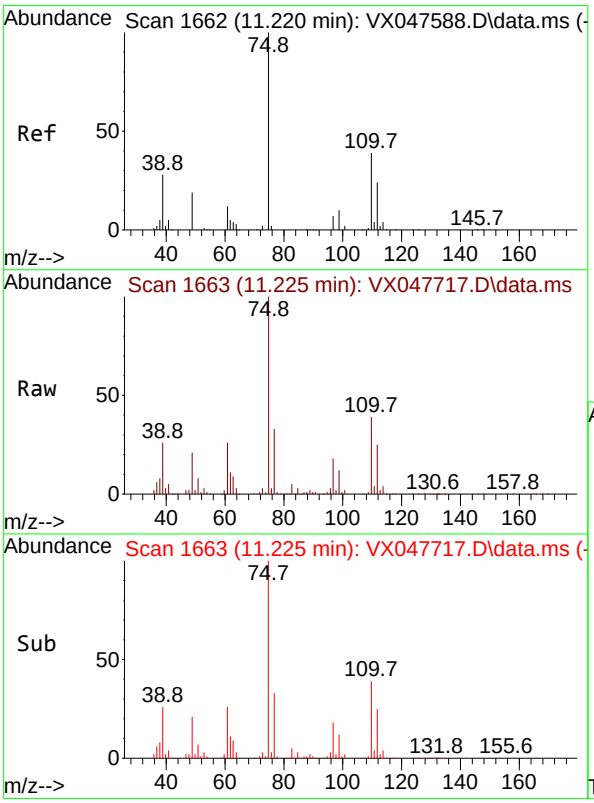
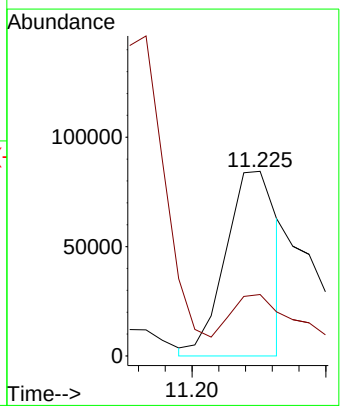


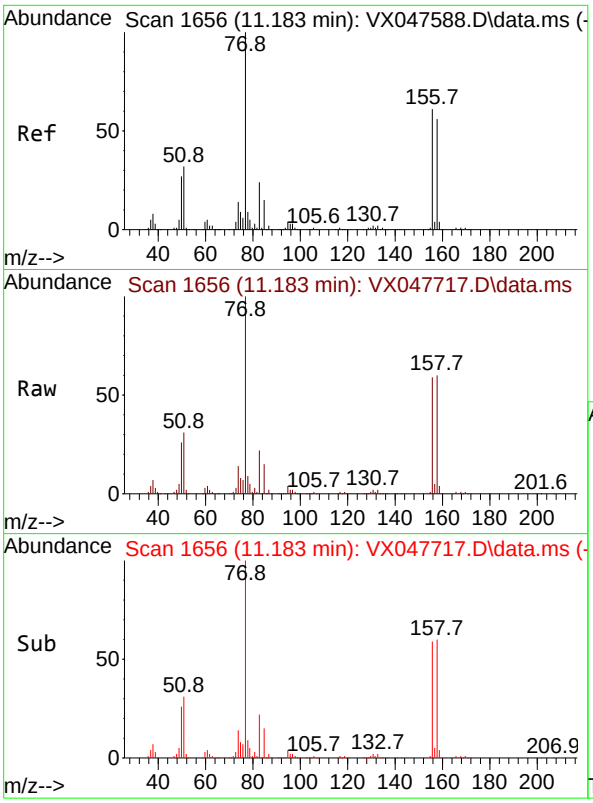


#76
1,2,3-Trichloropropane
Concen: 45.835 ug/l m
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 111654

Ion	Ratio	Lower	Upper
75	100		
77	46.1	18.8	56.4





#77
Bromobenzene
Concen: 50.885 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:156 Resp: 11463

Ion	Ratio	Lower	Upper
156	100		
77	175.4	89.7	269.1
158	98.0	47.9	143.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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Reviewed By :John Carlone 09/23/2025
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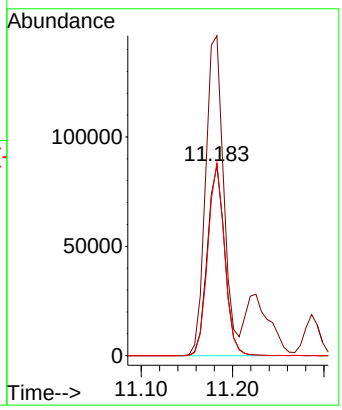
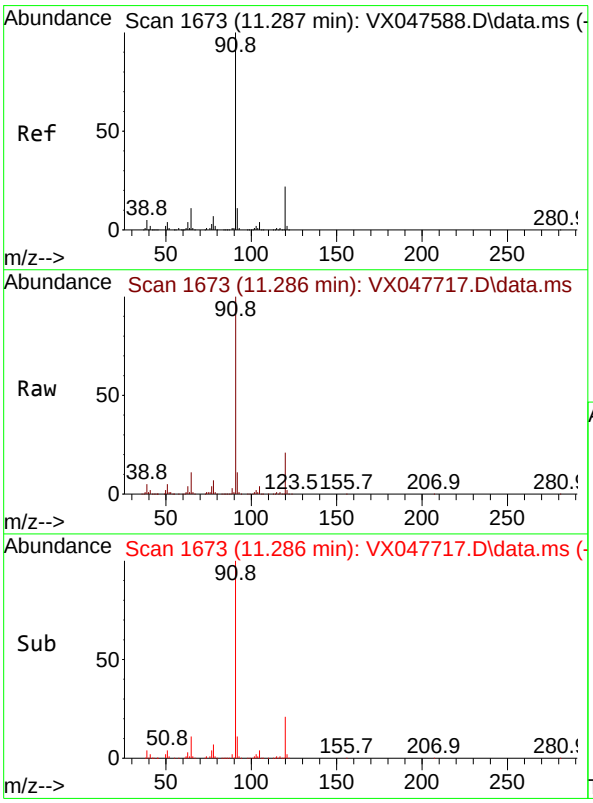
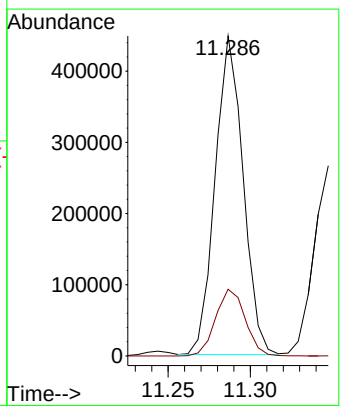


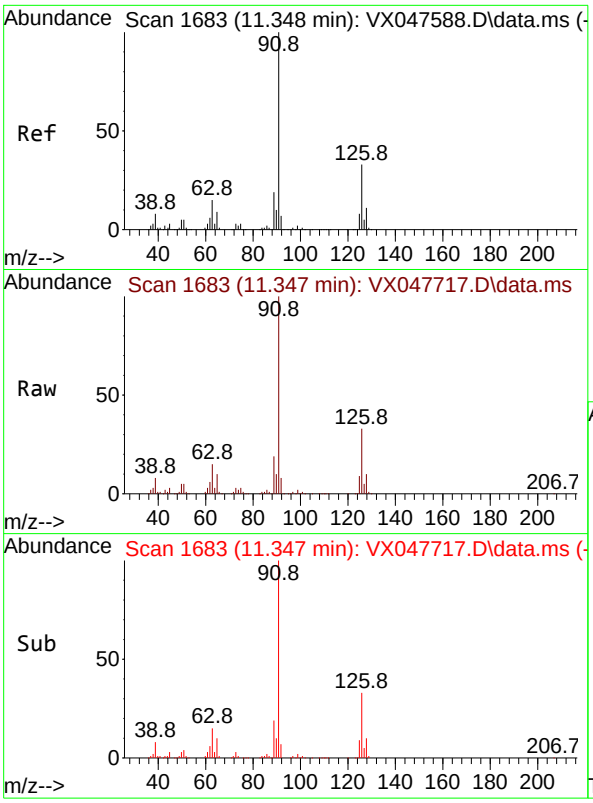


#78
n-propylbenzene
Concen: 48.949 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 91 Resp: 529287

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1





#79
2-Chlorotoluene
Concen: 48.889 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 91 Resp: 32378

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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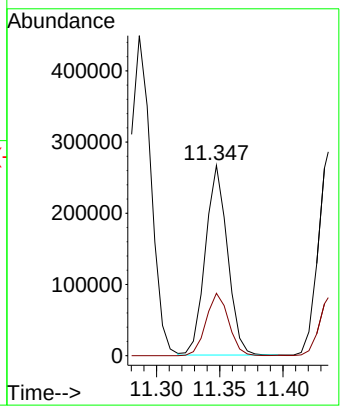
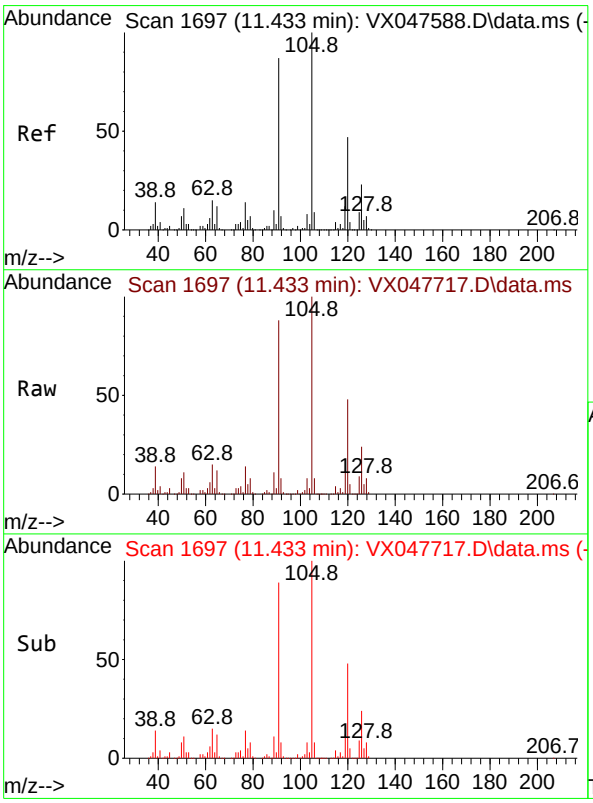
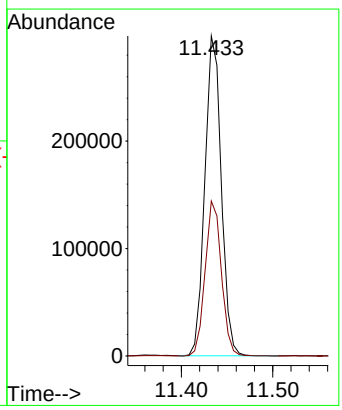


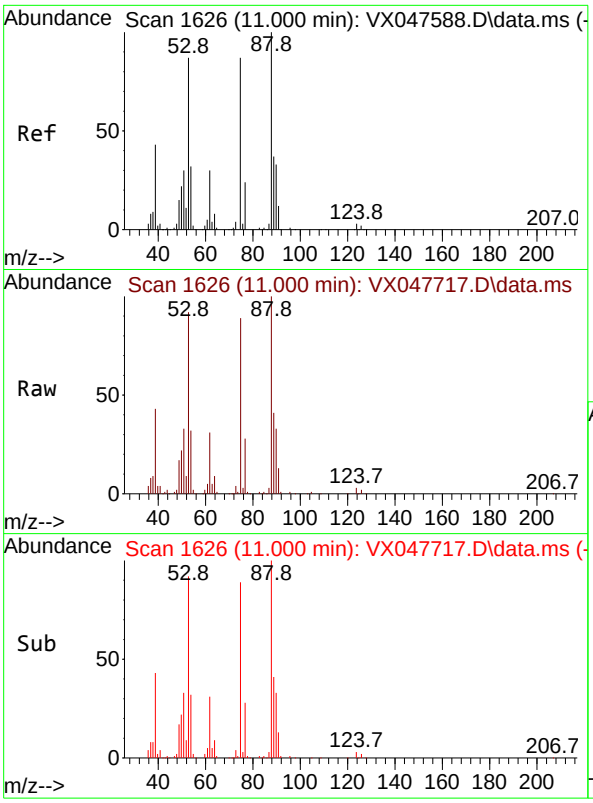


#80
1,3,5-Trimethylbenzene
Concen: 49.314 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:105 Resp: 370606

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.6	70.8

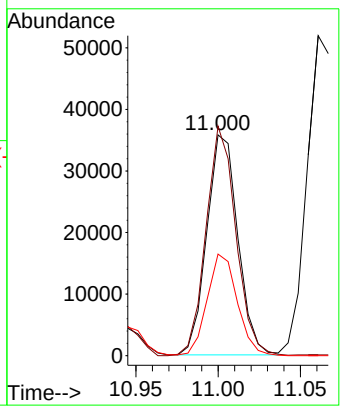




#81
trans-1,4-Dichloro-2-butene
Concen: 49.137 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 4693

Ion	Ratio	Lower	Upper
75	100		
53	100.5	83.4	125.2
89	44.9	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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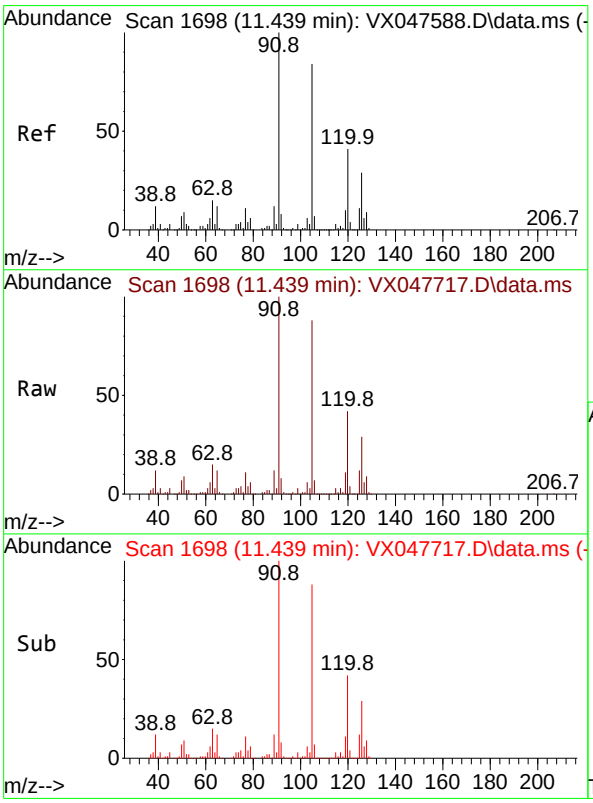
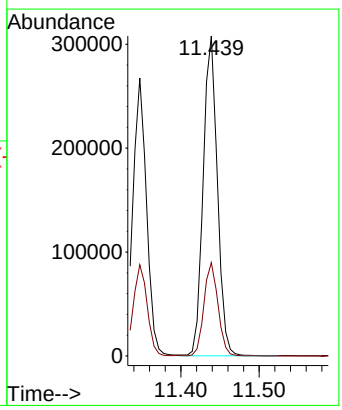
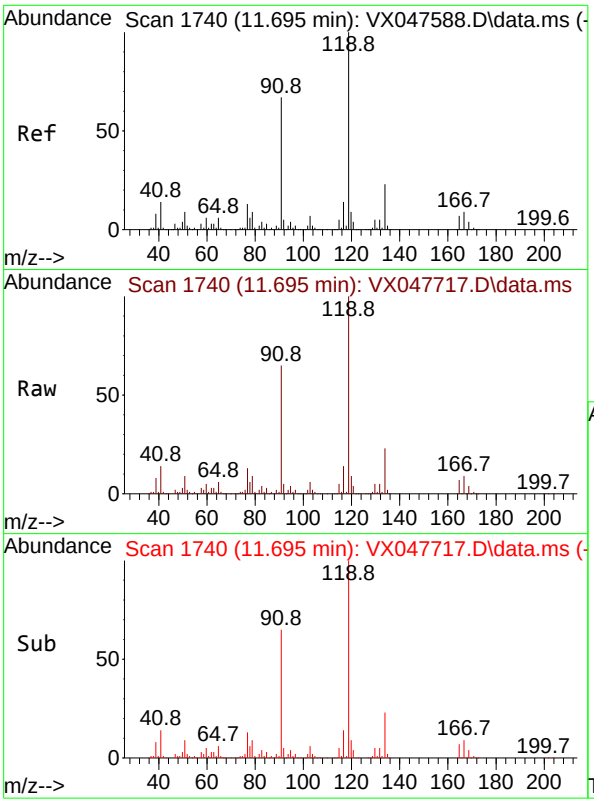


#82
4-Chlorotoluene
Concen: 49.316 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 91 Resp: 385744

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6

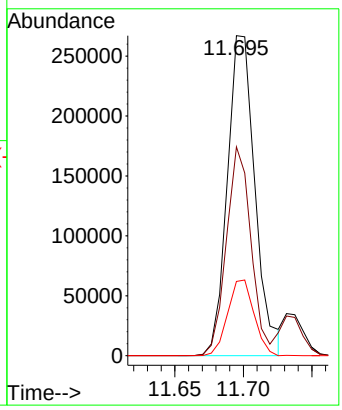




#83
tert-Butylbenzene
Concen: 48.830 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:119 Resp: 37565

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.6	88.8
134	22.5	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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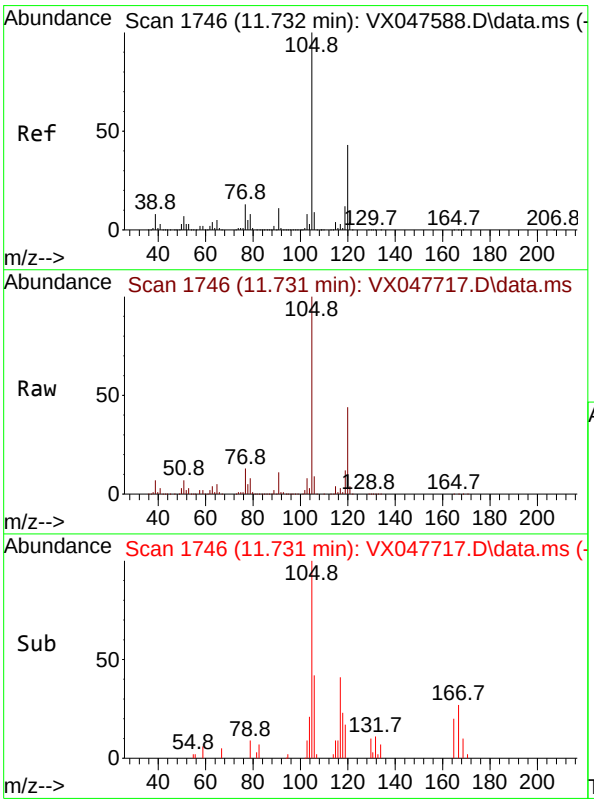
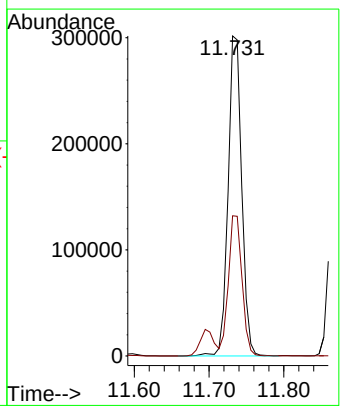
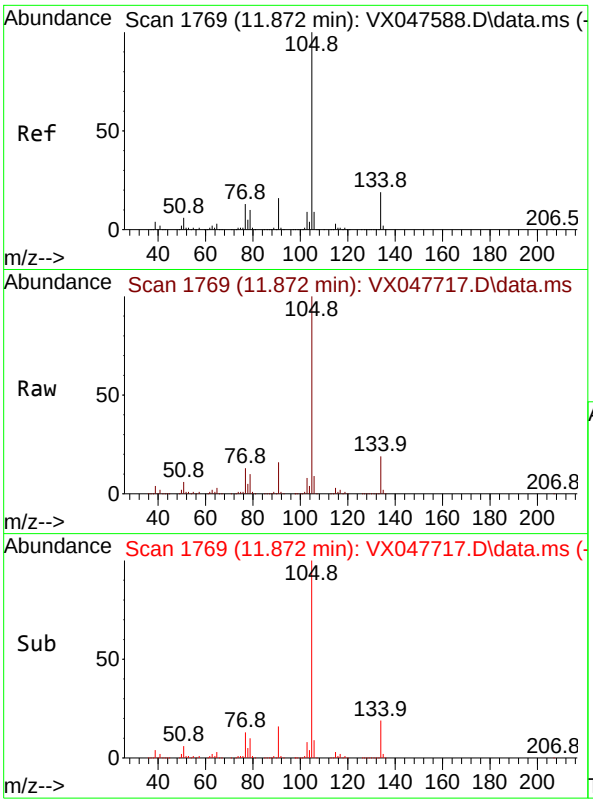


#84
1,2,4-Trimethylbenzene
Concen: 50.163 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:105 Resp: 382206

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1

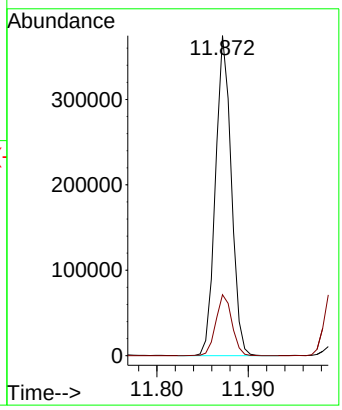




#85
sec-Butylbenzene
Concen: 49.293 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:105 Resp: 45043

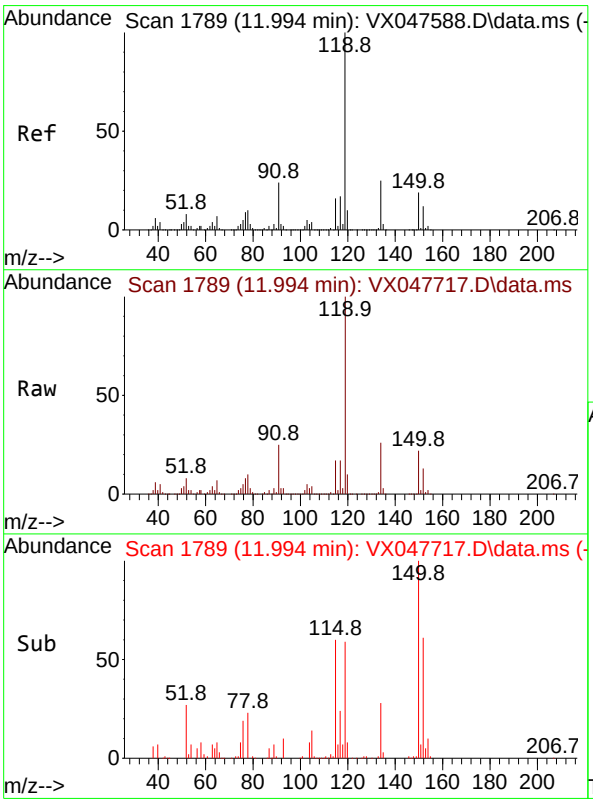
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

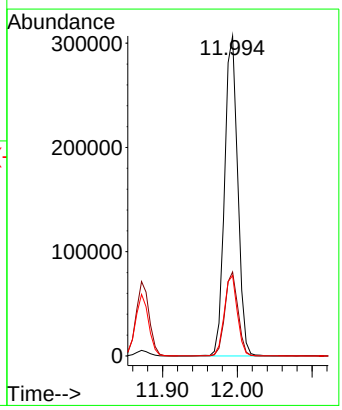
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

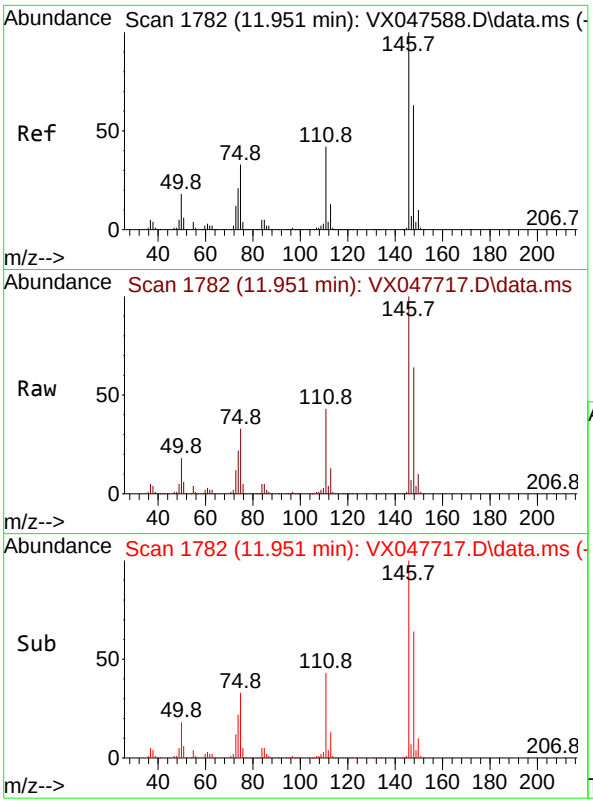


#86
p-Isopropyltoluene
Concen: 48.396 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:119 Resp: 374399

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	25.1	12.6	37.6

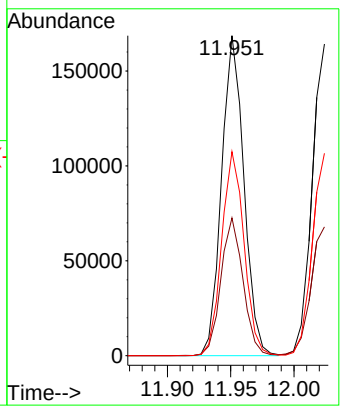




#87
1,3-Dichlorobenzene
Concen: 49.499 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:146 Resp: 20712

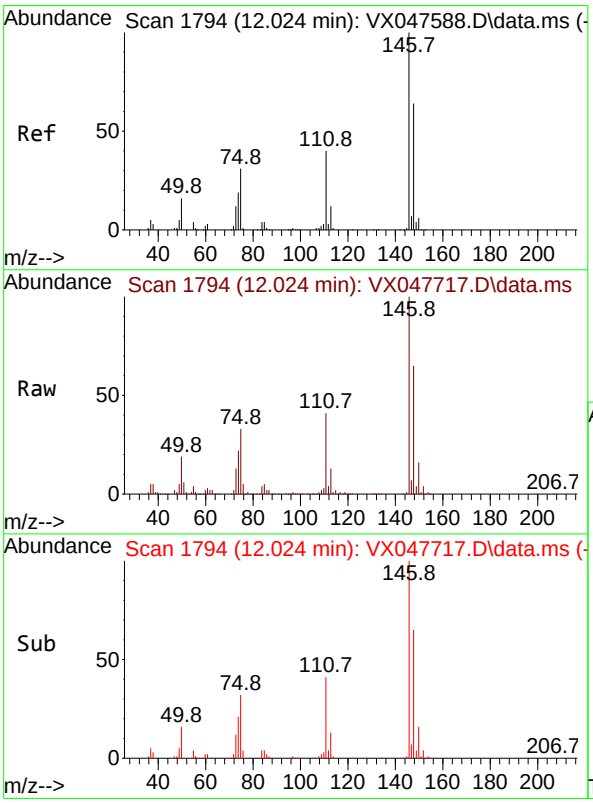
Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.5	64.5
148	63.9	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

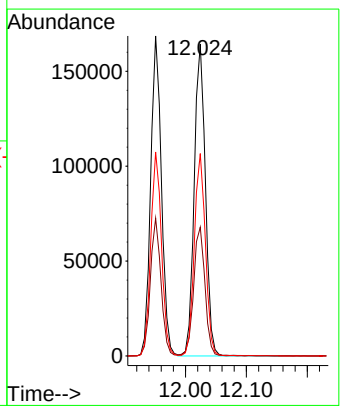
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

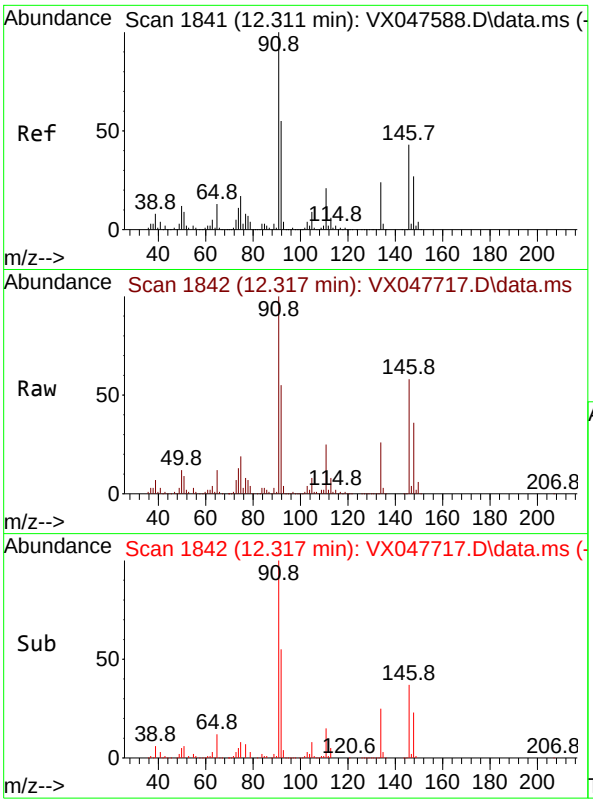


#88
1,4-Dichlorobenzene
Concen: 48.791 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:146 Resp: 209548

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	64.3	31.7	95.1





#89
n-Butylbenzene
Concen: 47.906 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

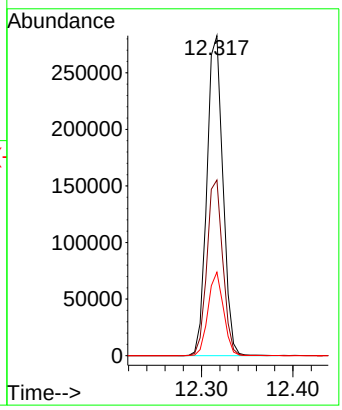
Tgt Ion: 91 Resp: 34292

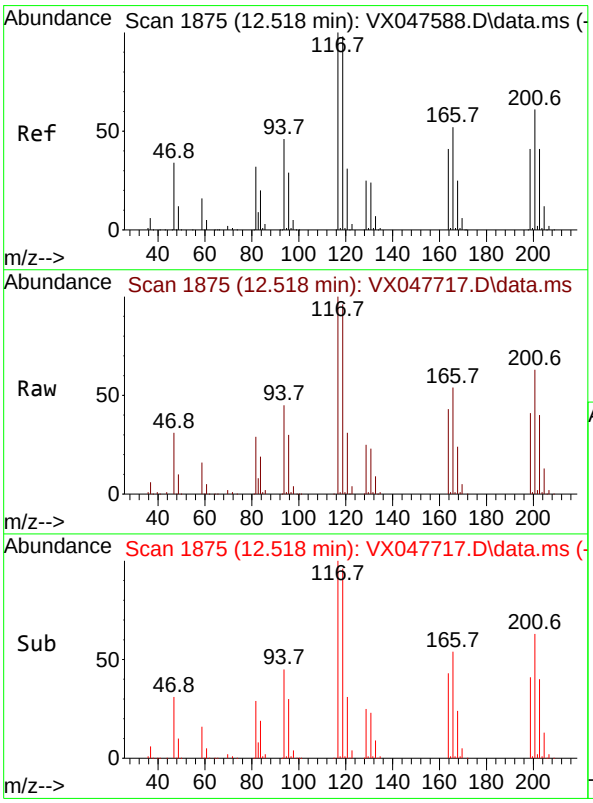
Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.6	82.7
134	25.2	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

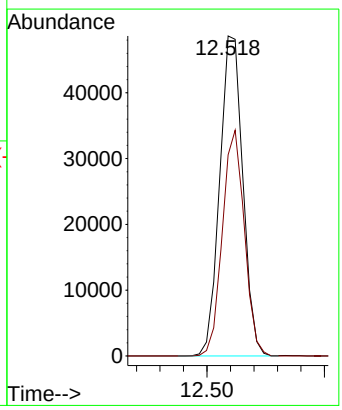


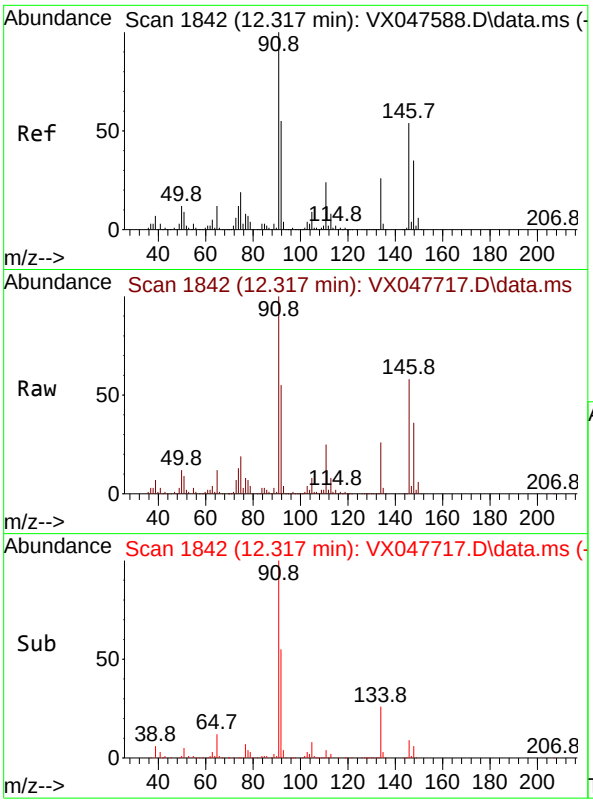


#90
Hexachloroethane
Concen: 48.974 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:117 Resp: 66519

Ion	Ratio	Lower	Upper
117	100		
201	67.1	34.2	102.5

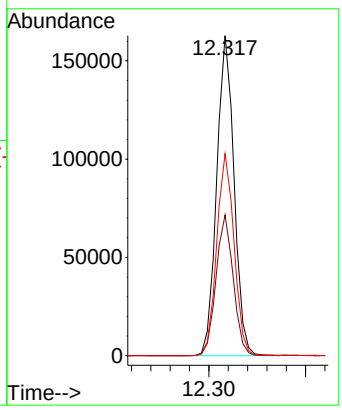




#91
1,2-Dichlorobenzene
Concen: 50.686 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:146 Resp: 20206

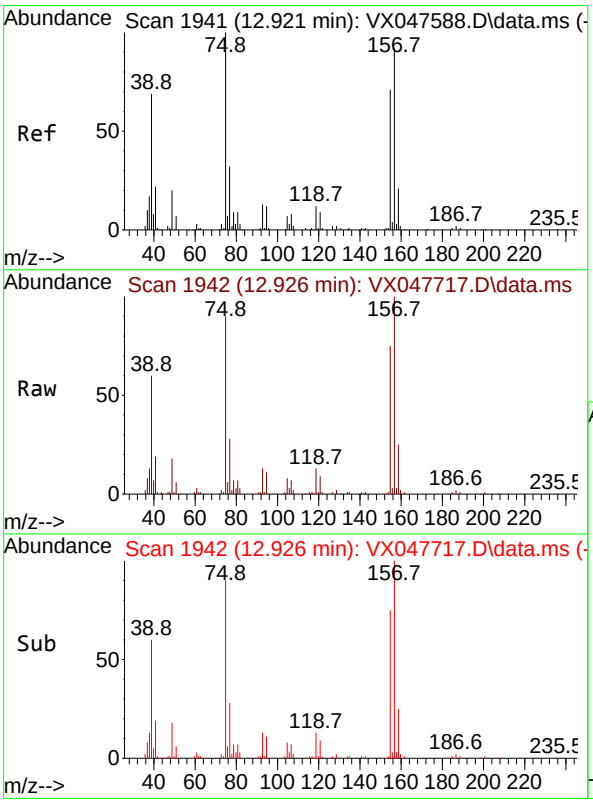
Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.2	66.6
148	63.2	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

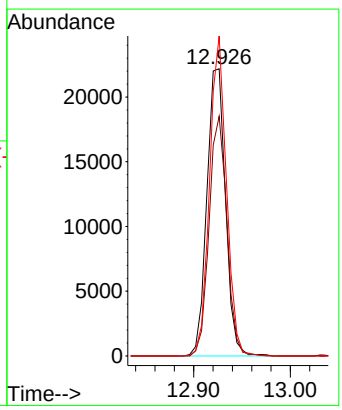
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

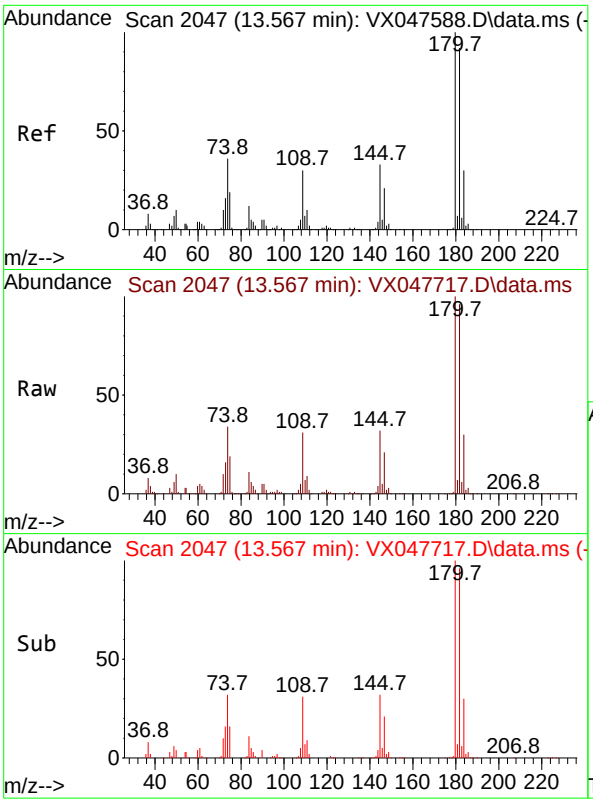


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.060 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 29730

Ion	Ratio	Lower	Upper
75	100		
155	79.9	37.7	113.1
157	100.6	49.8	149.4

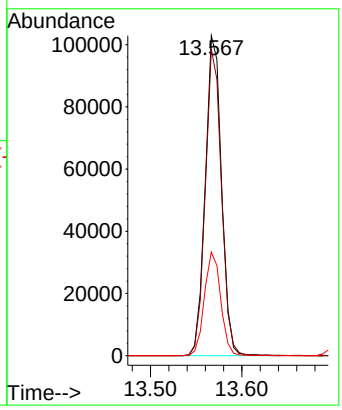




#93
1,2,4-Trichlorobenzene
Concen: 49.073 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

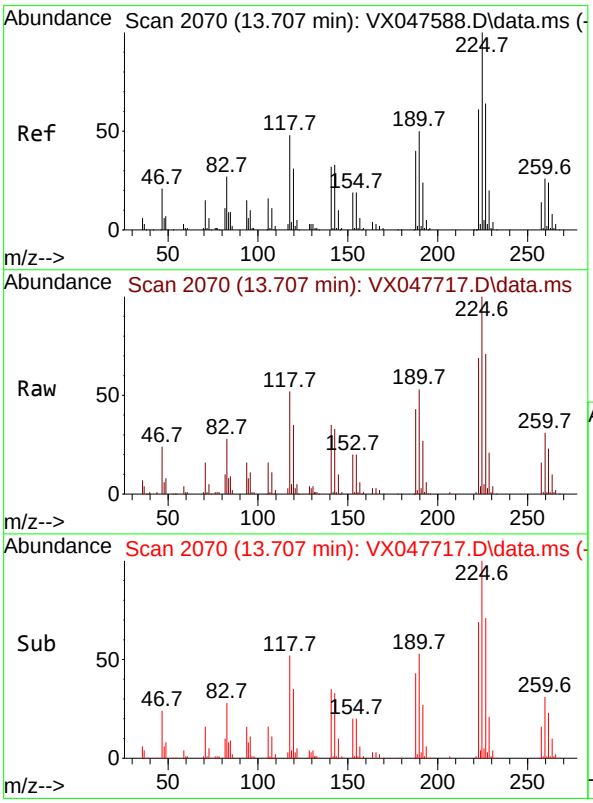
Tgt Ion:180 Resp: 12714

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	32.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

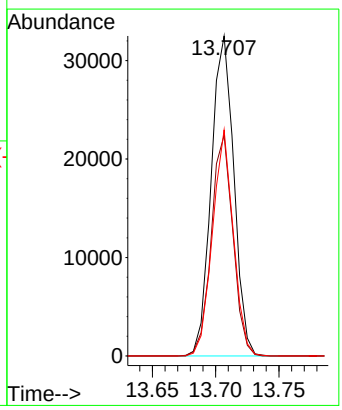
Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

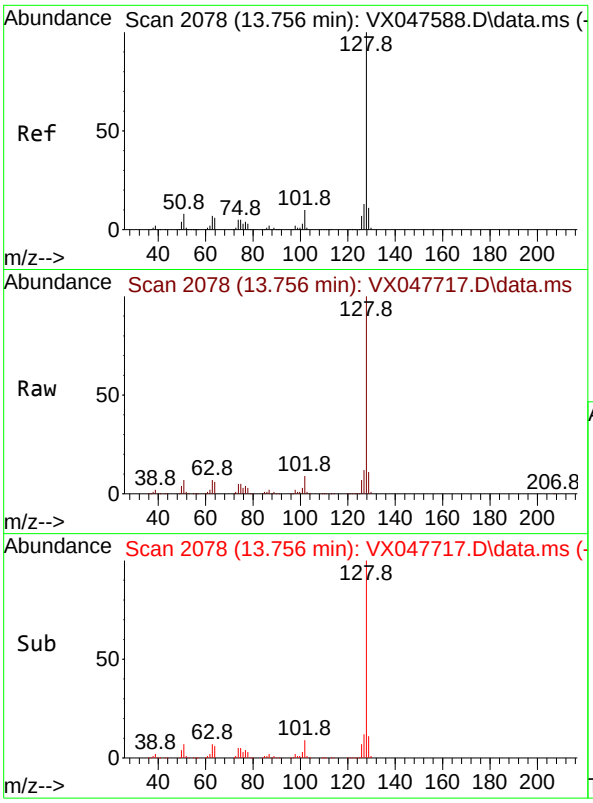


#94
Hexachlorobutadiene
Concen: 45.885 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:225 Resp: 40382

Ion	Ratio	Lower	Upper
225	100		
223	65.9	31.7	95.1
227	65.1	32.0	96.0

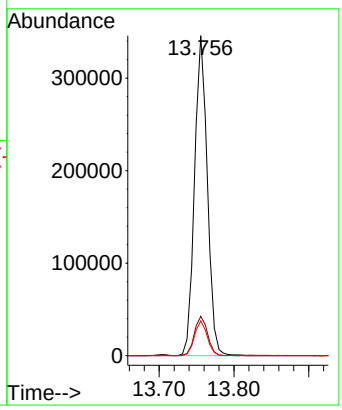




#95
Naphthalene
Concen: 52.169 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:128 Resp: 41159

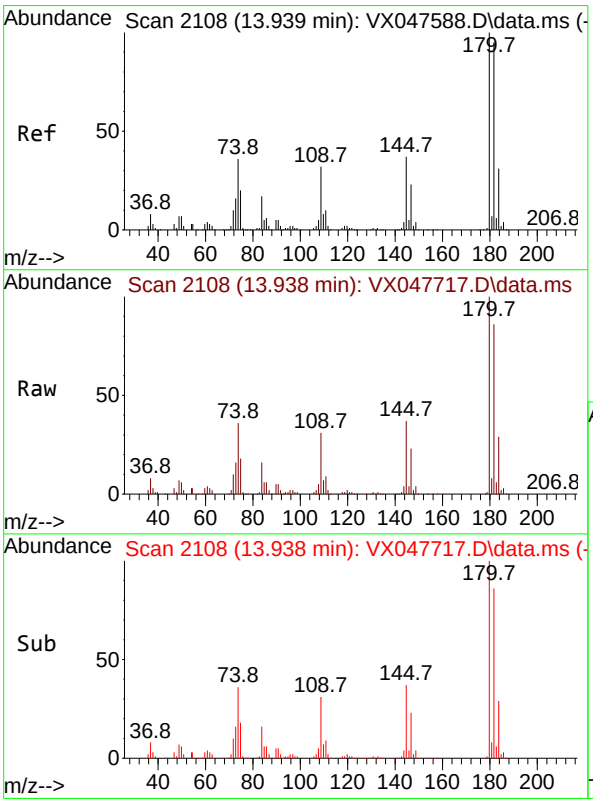
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

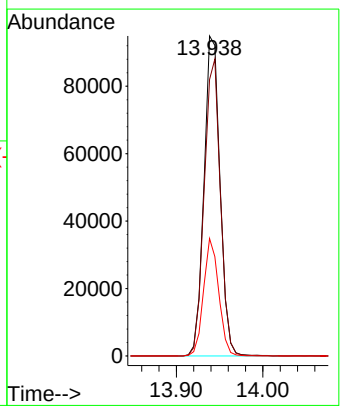
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.686 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:180 Resp: 122162

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	34.8	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	87	0.00
2	T	Dichlorodifluoromethane	0.518	0.586	-13.1	102	0.00
3	P	Chloromethane	0.680	0.730	-7.4	96	0.00
4	C	Vinyl Chloride	0.666	0.709	-6.5#	93	0.00
5	T	Bromomethane	0.422	0.480	-13.7	99	0.00
6	T	Chloroethane	0.445	0.467	-4.9	92	0.00
7	T	Trichlorofluoromethane	0.989	0.995	-0.6	87	0.00
8	T	Diethyl Ether	0.405	0.420	-3.7	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.585	-1.2	87	0.00
10	T	Methyl Iodide	0.902	0.925	-2.5	89	0.00
11	T	Tert butyl alcohol	0.089	0.093	-4.5	91	0.00
12	CM	1,1-Dichloroethene	0.594	0.603	-1.5#	87	0.00
13	T	Acrolein	0.082	0.089	-8.5	95	0.00
14	T	Allyl chloride	1.226	1.201	2.0	87	0.00
15	T	Acrylonitrile	0.328	0.368	-12.2	93	0.00
16	T	Acetone	0.346	0.287	17.1	79	0.00
17	T	Carbon Disulfide	1.626	1.720	-5.8	96	0.00
18	T	Methyl Acetate	0.770	0.852	-10.6	85	0.00
19	T	Methyl tert-butyl Ether	2.169	2.272	-4.7	88	0.00
20	T	Methylene Chloride	0.732	0.748	-2.2	89	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.668	-4.4	90	0.00
22	T	Diisopropyl ether	2.376	2.474	-4.1	87	0.00
23	T	Vinyl Acetate	1.901	2.083	-9.6	91	0.00
24	P	1,1-Dichloroethane	1.263	1.307	-3.5	88	0.00
25	T	2-Butanone	0.432	0.447	-3.5	89	0.00
26	T	2,2-Dichloropropane	1.050	0.914	13.0	75	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.813	-3.8	88	0.00
28	T	Bromochloromethane	0.551	0.567	-2.9	86	0.00
29	T	Tetrahydrofuran	0.260	0.286	-10.0	90	0.00
30	C	Chloroform	1.276	1.327	-4.0#	87	0.00
31	T	Cyclohexane	1.052	1.042	1.0	88	0.00
32	T	1,1,1-Trichloroethane	1.082	1.106	-2.2	86	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.871	-9.4	99	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
35	S	Dibromofluoromethane	0.335	0.370	-10.4	101	0.00
36	T	1,1-Dichloropropene	0.490	0.470	4.1	87	0.00
37	T	Ethyl Acetate	0.525	0.533	-1.5	90	0.00
38	T	Carbon Tetrachloride	0.532	0.503	5.5	84	0.00
39	T	Methylcyclohexane	0.556	0.540	2.9	86	0.00
40	TM	Benzene	1.488	1.513	-1.7	90	0.00
41	T	Methacrylonitrile	0.271	0.300	-10.7	95	0.00
42	TM	1,2-Dichloroethane	0.566	0.561	0.9	87	0.00
43	T	Isopropyl Acetate	0.860	0.901	-4.8	91	0.00
44	TM	Trichloroethene	0.360	0.374	-3.9	91	0.00
45	C	1,2-Dichloropropane	0.381	0.393	-3.1#	89	0.00
46	T	Dibromomethane	0.277	0.286	-3.2	90	0.00
47	T	Bromodichloromethane	0.572	0.580	-1.4	86	0.00
48	T	Methyl methacrylate	0.429	0.447	-4.2	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.006	-50.0#	108	0.00
50	S	Toluene-d8	1.160	1.276	-10.0	100	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.520	-9.0	92	0.00
52	CM	Toluene	0.917	0.927	-1.1#	89	0.00
53	T	t-1,3-Dichloropropene	0.584	0.596	-2.1	87	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.637	-2.1	88	0.00
55	T	1,1,2-Trichloroethane	0.354	0.369	-4.2	91	0.00
56	T	Ethyl methacrylate	0.555	0.601	-8.3	90	0.00
57	T	1,3-Dichloropropane	0.607	0.647	-6.6	92	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.278	-22.5	92	0.00
59	T	2-Hexanone	0.343	0.363	-5.8	91	0.00
60	T	Dibromochloromethane	0.407	0.428	-5.2	89	0.00
61	T	1,2-Dibromoethane	0.360	0.387	-7.5	92	0.00
62	S	4-Bromofluorobenzene	0.440	0.489	-11.1	103	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
64	T	Tetrachloroethene	0.326	0.319	2.1	91	0.00
65	PM	Chlorobenzene	1.136	1.142	-0.5	90	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.396	-1.0	89	0.00
67	C	Ethyl Benzene	1.960	1.952	0.4#	89	0.00
68	T	m/p-Xylenes	0.729	0.736	-1.0	89	0.00
69	T	o-Xylene	0.706	0.717	-1.6	89	0.00
70	T	Styrene	1.236	1.262	-2.1	90	0.00
71	P	Bromoform	0.293	0.301	-2.7	89	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
73	T	Isopropylbenzene	3.801	3.740	1.6	87	0.00
74	T	N-amyl acetate	1.733	1.849	-6.7	94	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.212	-5.4	93	0.00
76	T	1,2,3-Trichloropropane	1.012	0.928	8.3	77	0.00
77	T	Bromobenzene	0.936	0.953	-1.8	91	0.00
78	T	n-propylbenzene	4.494	4.399	2.1	86	0.00
79	T	2-Chlorotoluene	2.752	2.691	2.2	87	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.080	1.4	87	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.390	1.8	89	0.00
82	T	4-Chlorotoluene	3.251	3.206	1.4	88	0.00
83	T	tert-Butylbenzene	3.197	3.122	2.3	88	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.177	-0.3	89	0.00
85	T	sec-Butylbenzene	3.797	3.744	1.4	88	0.00
86	T	p-Isopropyltoluene	3.215	3.112	3.2	86	0.00
87	T	1,3-Dichlorobenzene	1.739	1.722	1.0	89	0.00
88	T	1,4-Dichlorobenzene	1.785	1.742	2.4	90	0.00
89	T	n-Butylbenzene	2.975	2.850	4.2	86	0.00
90	T	Hexachloroethane	0.564	0.553	2.0	88	0.00
91	T	1,2-Dichlorobenzene	1.657	1.679	-1.3	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.247	-6.0	92	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.057	1.9	86	0.00
94	T	Hexachlorobutadiene	0.366	0.336	8.2	82	0.00
95	T	Naphthalene	3.279	3.421	-4.3	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.015	-1.3	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	87	0.00
2	T	Dichlorodifluoromethane	50.000	56.543	-13.1	102	0.00
3	P	Chloromethane	50.000	53.650	-7.3	96	0.00
4	C	Vinyl Chloride	50.000	53.183	-6.4#	93	0.00
5	T	Bromomethane	50.000	56.826	-13.7	99	0.00
6	T	Chloroethane	50.000	52.407	-4.8	92	0.00
7	T	Trichlorofluoromethane	50.000	50.293	-0.6	87	0.00
8	T	Diethyl Ether	50.000	51.867	-3.7	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.597	-1.2	87	0.00
10	T	Methyl Iodide	50.000	51.292	-2.6	89	0.00
11	T	Tert butyl alcohol	250.000	261.918	-4.8	91	0.00
12	CM	1,1-Dichloroethene	50.000	50.793	-1.6#	87	0.00
13	T	Acrolein	250.000	272.101	-8.8	95	0.00
14	T	Allyl chloride	50.000	48.993	2.0	87	0.00
15	T	Acrylonitrile	250.000	280.040	-12.0	93	0.00
16	T	Acetone	250.000	207.448	17.0	79	0.00
17	T	Carbon Disulfide	50.000	52.873	-5.7	96	0.00
18	T	Methyl Acetate	50.000	55.287	-10.6	85	0.00
19	T	Methyl tert-butyl Ether	50.000	52.375	-4.8	88	0.00
20	T	Methylene Chloride	50.000	51.031	-2.1	89	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.246	-4.5	90	0.00
22	T	Diisopropyl ether	50.000	52.076	-4.2	87	0.00
23	T	Vinyl Acetate	250.000	273.882	-9.6	91	0.00
24	P	1,1-Dichloroethane	50.000	51.765	-3.5	88	0.00
25	T	2-Butanone	250.000	258.807	-3.5	89	0.00
26	T	2,2-Dichloropropane	50.000	43.525	13.0	75	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.917	-3.8	88	0.00
28	T	Bromochloromethane	50.000	51.404	-2.8	86	0.00
29	T	Tetrahydrofuran	250.000	274.899	-10.0	90	0.00
30	C	Chloroform	50.000	51.979	-4.0#	87	0.00
31	T	Cyclohexane	50.000	49.517	1.0	88	0.00
32	T	1,1,1-Trichloroethane	50.000	51.085	-2.2	86	0.00
33	S	1,2-Dichloroethane-d4	50.000	54.742	-9.5	99	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	90	0.00
35	S	Dibromofluoromethane	50.000	55.097	-10.2	101	0.00
36	T	1,1-Dichloropropene	50.000	48.007	4.0	87	0.00
37	T	Ethyl Acetate	50.000	50.836	-1.7	90	0.00
38	T	Carbon Tetrachloride	50.000	47.209	5.6	84	0.00
39	T	Methylcyclohexane	50.000	48.510	3.0	86	0.00
40	TM	Benzene	50.000	50.844	-1.7	90	0.00
41	T	Methacrylonitrile	50.000	55.388	-10.8	95	0.00
42	TM	1,2-Dichloroethane	50.000	49.515	1.0	87	0.00
43	T	Isopropyl Acetate	50.000	52.355	-4.7	91	0.00
44	TM	Trichloroethene	50.000	52.011	-4.0	91	0.00
45	C	1,2-Dichloropropane	50.000	51.582	-3.2#	89	0.00
46	T	Dibromomethane	50.000	51.526	-3.1	90	0.00
47	T	Bromodichloromethane	50.000	50.680	-1.4	86	0.00
48	T	Methyl methacrylate	50.000	52.179	-4.4	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1328.639	-32.9#	108	0.00
50	S	Toluene-d8	50.000	54.996	-10.0	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	272.732	-9.1	92	0.00
52	CM	Toluene	50.000	50.554	-1.1#	89	0.00
53	T	t-1,3-Dichloropropene	50.000	51.028	-2.1	87	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.038	-2.1	88	0.00
55	T	1,1,2-Trichloroethane	50.000	52.227	-4.5	91	0.00
56	T	Ethyl methacrylate	50.000	54.080	-8.2	90	0.00
57	T	1,3-Dichloropropane	50.000	53.280	-6.6	92	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	261.171	-4.5	92	0.00
59	T	2-Hexanone	250.000	265.041	-6.0	91	0.00
60	T	Dibromochloromethane	50.000	52.563	-5.1	89	0.00
61	T	1,2-Dibromoethane	50.000	53.678	-7.4	92	0.00
62	S	4-Bromofluorobenzene	50.000	55.527	-11.1	103	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
64	T	Tetrachloroethene	50.000	48.896	2.2	91	0.00
65	PM	Chlorobenzene	50.000	50.265	-0.5	90	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.451	-0.9	89	0.00
67	C	Ethyl Benzene	50.000	49.786	0.4#	89	0.00
68	T	m/p-Xylenes	100.000	100.842	-0.8	89	0.00
69	T	o-Xylene	50.000	50.827	-1.7	89	0.00
70	T	Styrene	50.000	51.041	-2.1	90	0.00
71	P	Bromoform	50.000	51.349	-2.7	89	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	94	0.00
73	T	Isopropylbenzene	50.000	49.195	1.6	87	0.00
74	T	N-amyl acetate	50.000	53.334	-6.7	94	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.707	-5.4	93	0.00
76	T	1,2,3-Trichloropropane	50.000	45.835	8.3	77	0.00
77	T	Bromobenzene	50.000	50.885	-1.8	91	0.00
78	T	n-propylbenzene	50.000	48.949	2.1	86	0.00
79	T	2-Chlorotoluene	50.000	48.889	2.2	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.314	1.4	87	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.137	1.7	89	0.00
82	T	4-Chlorotoluene	50.000	49.316	1.4	88	0.00
83	T	tert-Butylbenzene	50.000	48.830	2.3	88	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.163	-0.3	89	0.00
85	T	sec-Butylbenzene	50.000	49.293	1.4	88	0.00
86	T	p-Isopropyltoluene	50.000	48.396	3.2	86	0.00
87	T	1,3-Dichlorobenzene	50.000	49.499	1.0	89	0.00
88	T	1,4-Dichlorobenzene	50.000	48.791	2.4	90	0.00
89	T	n-Butylbenzene	50.000	47.906	4.2	86	0.00
90	T	Hexachloroethane	50.000	48.974	2.1	88	0.00
91	T	1,2-Dichlorobenzene	50.000	50.686	-1.4	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.060	-6.1	92	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.073	1.9	86	0.00
94	T	Hexachlorobutadiene	50.000	45.885	8.2	82	0.00
95	T	Naphthalene	50.000	52.169	-4.3	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.686	-1.4	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: AECO15
Lab Code: ACE
SDG No.: Q3097
Instrument ID: MSVOA_X
Calibration Date/Time: 09/23/2025 09:02
Lab File ID: VX047719.D
Init. Calib. Date(s): 09/16/2025 09/16/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 09:23 12:01
GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.656		26.64	20
Chloromethane	0.680	0.808	0.1	18.82	20
Vinyl Chloride	0.666	0.805		20.87	20
Bromomethane	0.422	0.530		25.59	20
Chloroethane	0.445	0.514		15.51	20
Trichlorofluoromethane	0.989	1.104		11.63	20
1,1,2-Trichlorotrifluoroethane	0.578	0.650		12.46	20
1,1-Dichloroethene	0.594	0.677		13.97	20
Acetone	0.346	0.388		12.14	20
Carbon Disulfide	1.626	1.899		16.79	20
Methyl tert-butyl Ether	2.169	2.452		13.05	20
Methyl Acetate	0.770	0.873		13.38	20
Methylene Chloride	0.732	0.832		13.66	20
trans-1,2-Dichloroethene	0.640	0.741		15.78	20
1,1-Dichloroethane	1.263	1.428	0.1	13.06	20
Cyclohexane	1.052	1.142		8.56	20
2-Butanone	0.432	0.477		10.42	20
Carbon Tetrachloride	0.532	0.561		5.45	20
cis-1,2-Dichloroethene	0.783	0.903		15.33	20
Bromochloromethane	0.551	0.612		11.07	20
Chloroform	1.276	1.444		13.17	20
1,1,1-Trichloroethane	1.082	1.211		11.92	20
Methylcyclohexane	0.556	0.599		7.73	20
Benzene	1.488	1.647		10.69	20
1,2-Dichloroethane	0.566	0.606		7.07	20
Trichloroethene	0.360	0.403		11.94	20
1,2-Dichloropropane	0.381	0.426		11.81	20
Bromodichloromethane	0.572	0.634		10.84	20
4-Methyl-2-Pentanone	0.477	0.525		10.06	20
Toluene	0.917	1.016		10.8	20
t-1,3-Dichloropropene	0.584	0.658		12.67	20
cis-1,3-Dichloropropene	0.624	0.704		12.82	20
1,1,2-Trichloroethane	0.354	0.392		10.73	20
2-Hexanone	0.343	0.374		9.04	20
Dibromochloromethane	0.407	0.464		14.01	20
1,2-Dibromoethane	0.360	0.410		13.89	20
Tetrachloroethene	0.326	0.353		8.28	20
Chlorobenzene	1.136	1.246	0.3	9.68	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/23/2025 09:02
Lab File ID:	VX047719.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	2.150		9.69	20
m/p-Xylenes	0.729	0.807		10.7	20
o-Xylene	0.706	0.790		11.9	20
Styrene	1.236	1.382		11.81	20
Bromoform	0.293	0.332	0.1	13.31	20
Isopropylbenzene	3.801	4.072		7.13	20
1,1,2,2-Tetrachloroethane	1.150	1.253	0.3	8.96	20
1,3-Dichlorobenzene	1.739	1.887		8.51	20
1,4-Dichlorobenzene	1.785	1.893		6.05	20
1,2-Dichlorobenzene	1.657	1.825		10.14	20
1,2-Dibromo-3-Chloropropane	0.233	0.241		3.43	20
1,2,4-Trichlorobenzene	1.077	1.150		6.78	20
1,2,3-Trichlorobenzene	1.002	1.103		10.08	20
1,2-Dichloroethane-d4	0.796	0.816		2.51	20
Dibromofluoromethane	0.335	0.352		5.07	20
Toluene-d8	1.160	1.200		3.45	20
4-Bromofluorobenzene	0.440	0.459		4.32	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	145672	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	265022	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	235703	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	115061	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	118904	51.280	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.560%			
35) Dibromofluoromethane	5.367	113	93243	52.461	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.920%			
50) Toluene-d8	8.628	98	318085	51.720	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.440%			
62) 4-Bromofluorobenzene	11.061	95	121543	52.073	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	95620	63.389	ug/l	97
3) Chloromethane	1.300	50	117705	59.371	ug/l	100
4) Vinyl Chloride	1.380	62	117260	60.422	ug/l	100
5) Bromomethane	1.617	94	77247	62.771	ug/l	97
6) Chloroethane	1.697	64	74922	57.762	ug/l	99
7) Trichlorofluoromethane	1.892	101	160825	55.813	ug/l	99
8) Diethyl Ether	2.136	74	67493	57.259	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	94692	56.200	ug/l	99
10) Methyl Iodide	2.453	142	152554	58.055	ug/l	100
11) Tert butyl alcohol	2.940	59	63172	244.621	ug/l	99
12) 1,1-Dichloroethene	2.325	96	98672	57.012	ug/l	97
13) Acrolein	2.233	56	67336	282.952	ug/l	97
14) Allyl chloride	2.666	41	195439	54.723	ug/l	98
15) Acrylonitrile	3.056	53	275014	287.505	ug/l	99
16) Acetone	2.373	43	282461	280.166	ug/l	98
17) Carbon Disulfide	2.514	76	276670	58.393	ug/l	99
18) Methyl Acetate	2.697	43	127158	56.673	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	357198	56.537	ug/l	99
20) Methylene Chloride	2.788	84	121247	56.815	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	107940	57.928	ug/l	96
22) Diisopropyl ether	3.751	45	393344	56.829	ug/l	100
23) Vinyl Acetate	3.709	43	1605465	289.816	ug/l	99
24) 1,1-Dichloroethane	3.605	63	207990	56.537	ug/l	99
25) 2-Butanone	4.532	43	347300	276.163	ug/l	98
26) 2,2-Dichloropropane	4.465	77	167410	54.744	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	131508	57.629	ug/l	98
28) Bromochloromethane	4.879	49	89169	55.520	ug/l	99
29) Tetrahydrofuran	4.983	42	207795	274.666	ug/l	99
30) Chloroform	5.074	83	210287	56.566	ug/l	98
31) Cyclohexane	5.458	56	166413	54.312	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	176453	55.958	ug/l	99
36) 1,1-Dichloropropene	5.678	75	136661	52.619	ug/l	98
37) Ethyl Acetate	4.696	43	148064	53.244	ug/l	99
38) Carbon Tetrachloride	5.666	117	148597	52.659	ug/l	96
39) Methylcyclohexane	7.360	83	158624	53.805	ug/l	99
40) Benzene	6.019	78	436446	55.328	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	78988	55.020	ug/l		99
42) 1,2-Dichloroethane	6.068	62	160490	53.472	ug/l		99
43) Isopropyl Acetate	6.318	43	246709	54.094	ug/l		100
44) Trichloroethene	7.104	130	106747	55.974	ug/l		93
45) 1,2-Dichloropropane	7.415	63	112815	55.852	ug/l		100
46) Dibromomethane	7.562	93	81231	55.264	ug/l		97
47) Bromodichloromethane	7.805	83	168096	55.419	ug/l		98
48) Methyl methacrylate	7.671	41	121390	53.434	ug/l		97
49) 1,4-Dioxane	7.641	88	28790	1254.001	ug/l		98
51) 4-Methyl-2-Pentanone	8.555	43	695707	275.127	ug/l		100
52) Toluene	8.702	92	269293	55.411	ug/l		98
53) t-1,3-Dichloropropene	8.958	75	174332	56.347	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	186621	56.434	ug/l		99
55) 1,1,2-Trichloroethane	9.134	97	104009	55.502	ug/l		99
56) Ethyl methacrylate	9.098	69	167018	56.751	ug/l		97
57) 1,3-Dichloropropane	9.293	76	182551	56.707	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	389211	274.956	ug/l		100
59) 2-Hexanone	9.415	43	495514	272.845	ug/l		99
60) Dibromochloromethane	9.506	129	123071	56.997	ug/l		98
61) 1,2-Dibromoethane	9.592	107	108549	56.870	ug/l		99
64) Tetrachloroethene	9.256	164	83230	54.167	ug/l		98
65) Chlorobenzene	10.061	112	293695	54.848	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.146	131	103750	56.149	ug/l		100
67) Ethyl Benzene	10.177	91	506854	54.859	ug/l		100
68) m/p-Xylenes	10.287	106	380464	110.636	ug/l		99
69) o-Xylene	10.622	106	186157	55.967	ug/l		99
70) Styrene	10.640	104	325724	55.888	ug/l		99
71) Bromoform	10.780	173	78229	56.699	ug/l	#	99
73) Isopropylbenzene	10.945	105	468503	53.558	ug/l		99
74) N-amyl acetate	10.823	43	216957	54.388	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	144143	54.463	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	113886m	48.886	ug/l		
77) Bromobenzene	11.183	156	118485	54.994	ug/l		96
78) n-propylbenzene	11.286	91	557613	53.923	ug/l		99
79) 2-Chlorotoluene	11.347	91	337904	53.352	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	387138	53.867	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	48023	52.569	ug/l		97
82) 4-Chlorotoluene	11.433	91	396717	53.035	ug/l		99
83) tert-Butylbenzene	11.695	119	390632	53.095	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	394502	54.142	ug/l		100
85) sec-Butylbenzene	11.872	105	468381	53.598	ug/l		100
86) p-Isopropyltoluene	11.988	119	395524	53.461	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	217150	54.263	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	217807	53.031	ug/l		99
89) n-Butylbenzene	12.311	91	364819	53.292	ug/l		99
90) Hexachloroethane	12.518	117	70085	53.956	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	210035	55.091	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	27679	51.656	ug/l		92
93) 1,2,4-Trichlorobenzene	13.567	180	132366	53.421	ug/l		98
94) Hexachlorobutadiene	13.707	225	44561	52.946	ug/l		99
95) Naphthalene	13.756	128	405500	53.744	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	126908	55.060	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

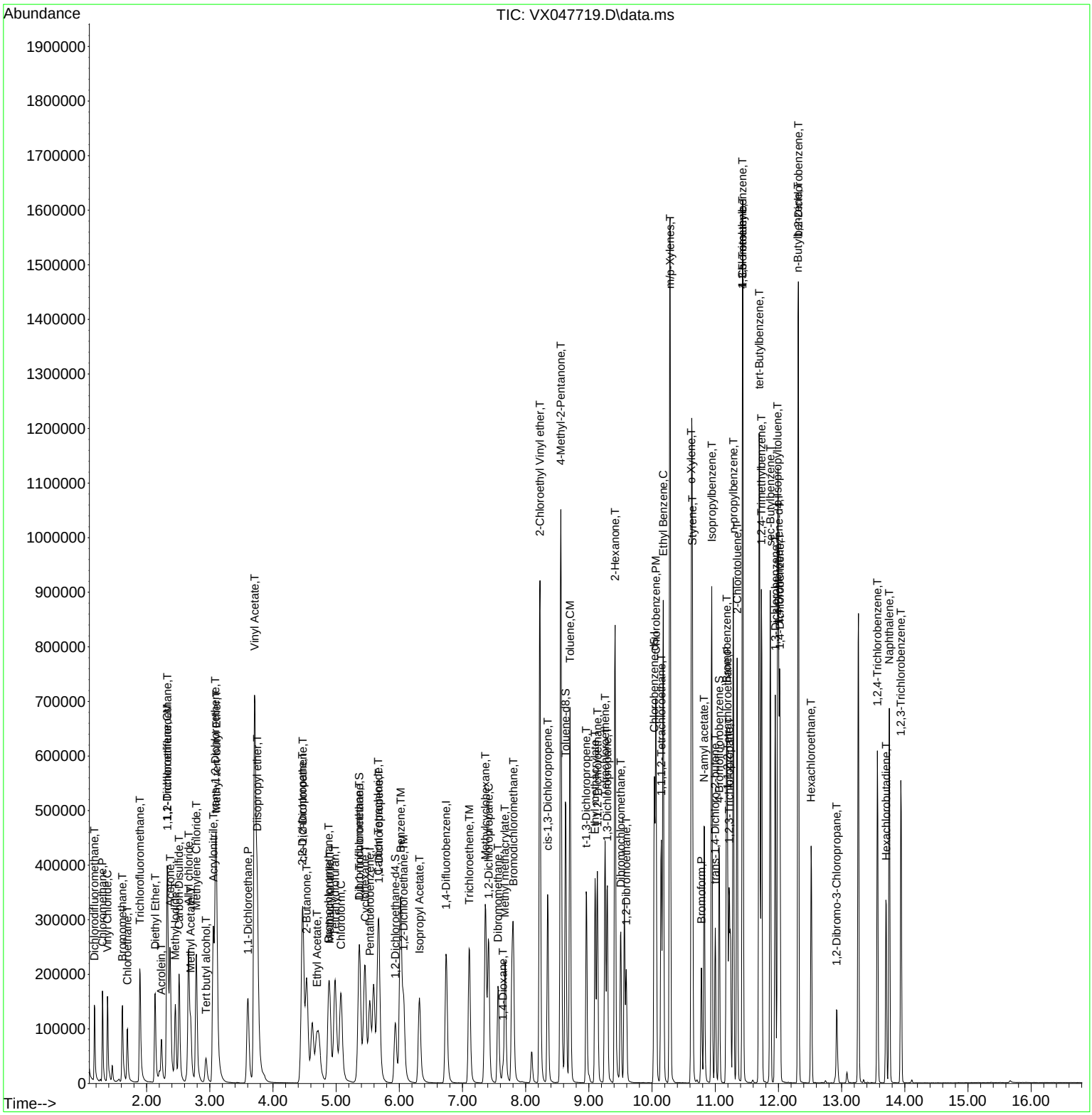
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

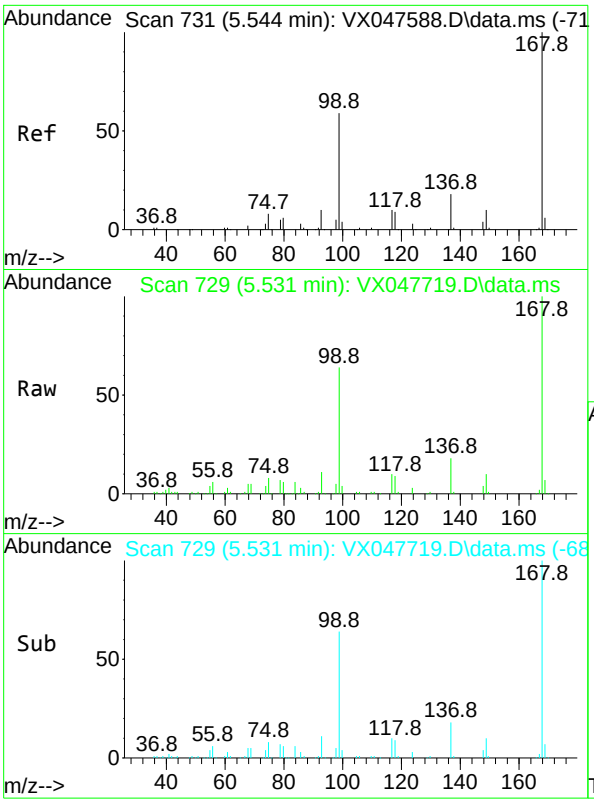
Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

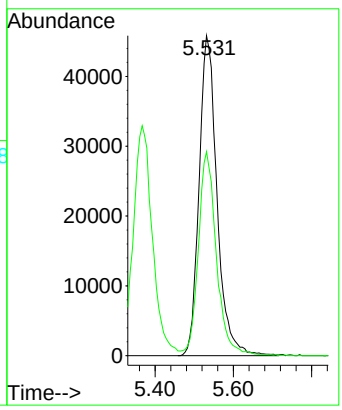




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:168 Resp: 14567

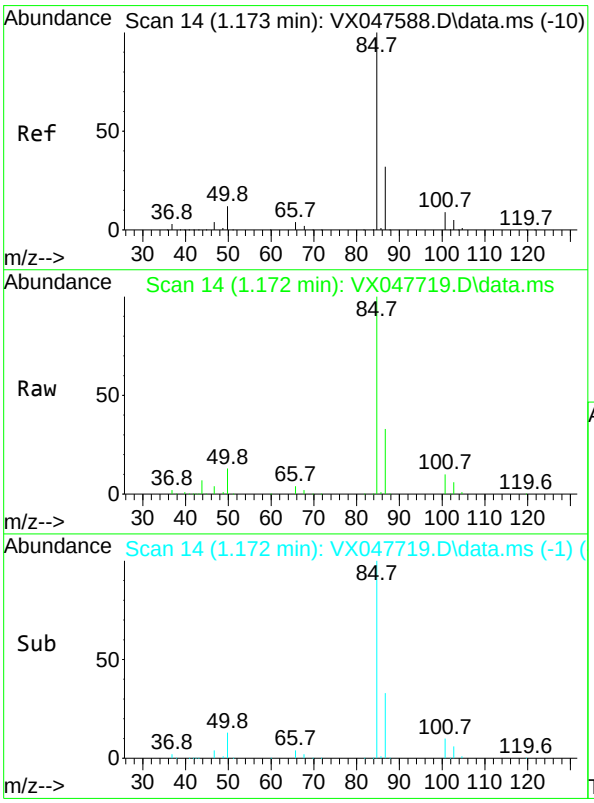
Ion	Ratio	Lower	Upper
168	100		
99	63.8	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

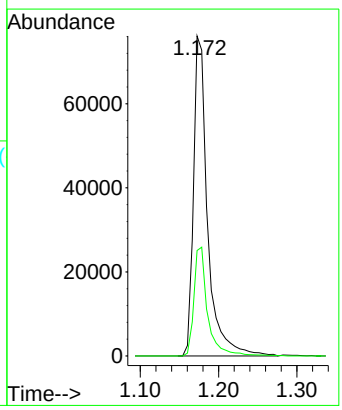
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

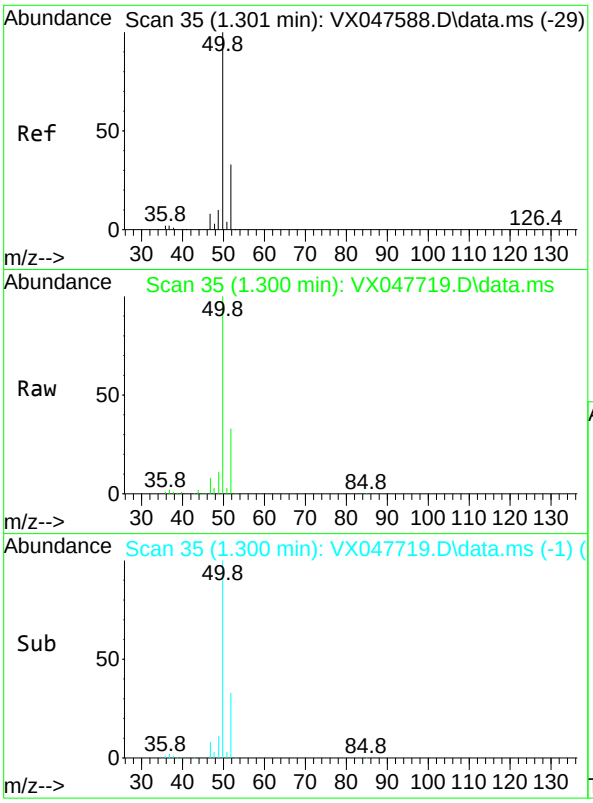


#2
Dichlorodifluoromethane
Concen: 63.389 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 85 Resp: 95620

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3

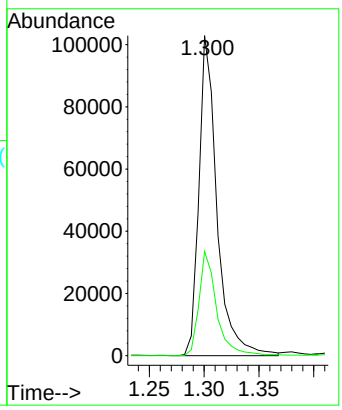




#3
Chloromethane
Concen: 59.371 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 50 Resp: 11770

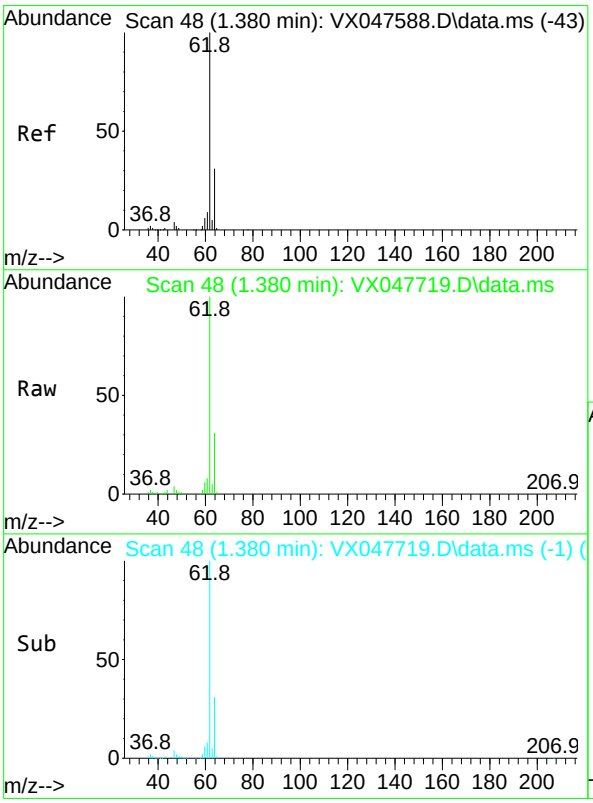
Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

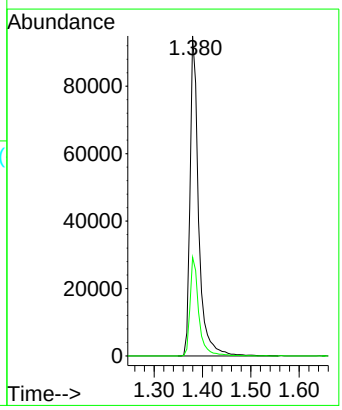
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

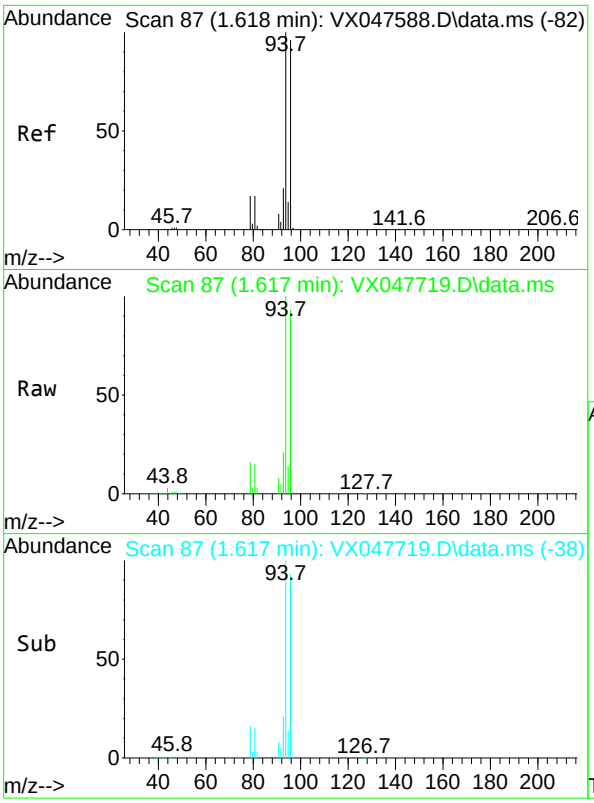


#4
Vinyl Chloride
Concen: 60.422 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 62 Resp: 117260

Ion	Ratio	Lower	Upper
62	100		
64	30.8	24.9	37.3

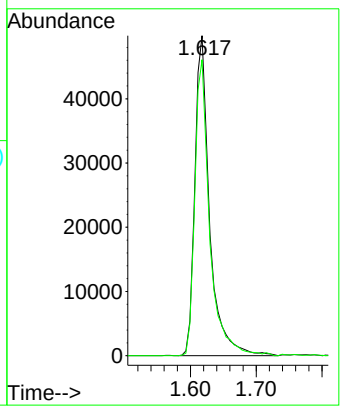




#5
Bromomethane
Concen: 62.771 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 94 Resp: 7724

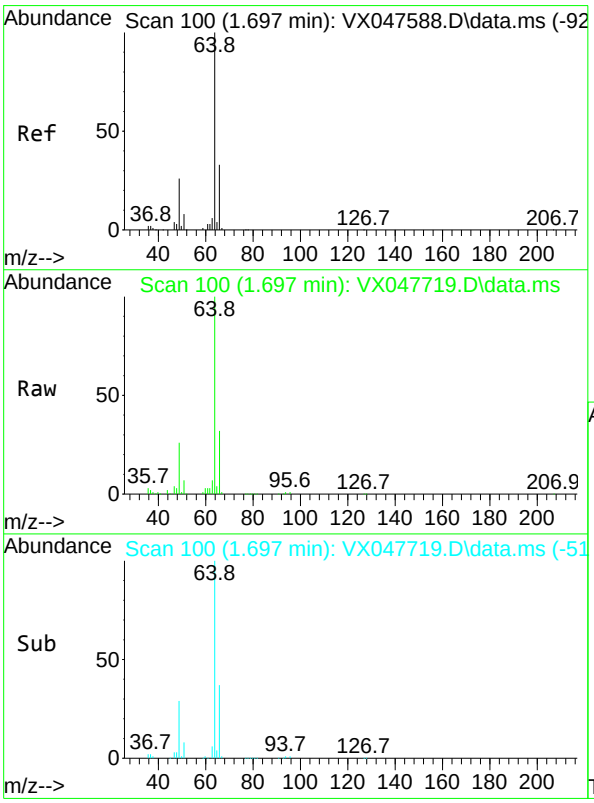
Ion	Ratio	Lower	Upper
94	100		
96	92.5	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

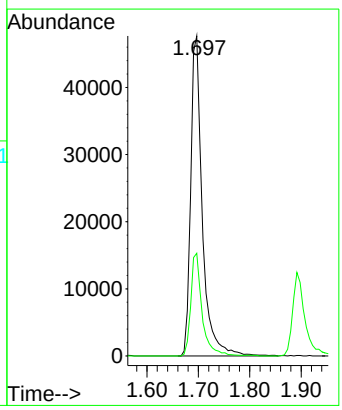
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

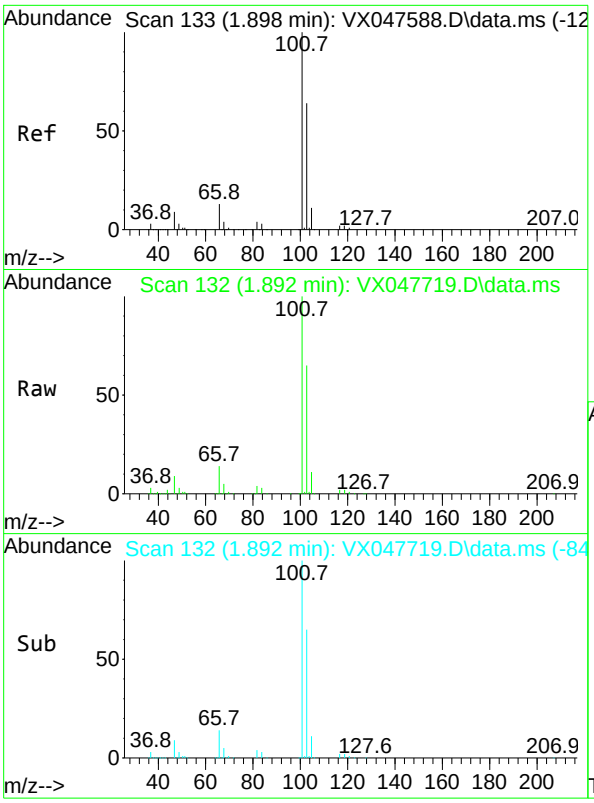


#6
Chloroethane
Concen: 57.762 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 64 Resp: 74922

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1

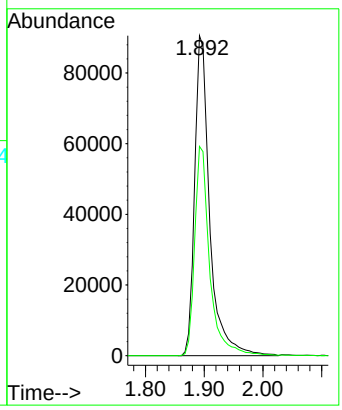




#7
Trichlorofluoromethane
Concen: 55.813 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:101 Resp: 16082

Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
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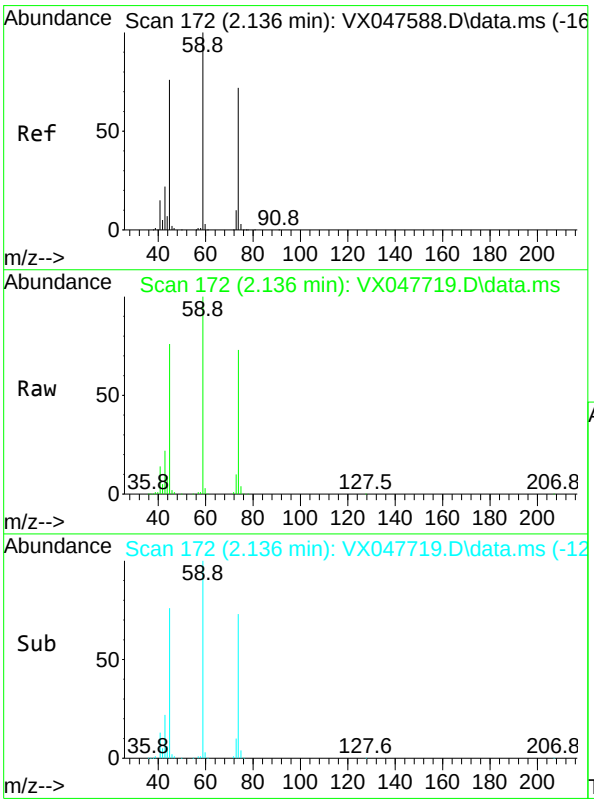
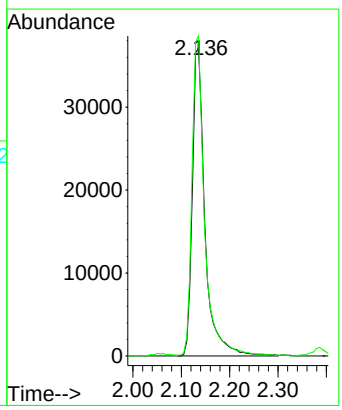
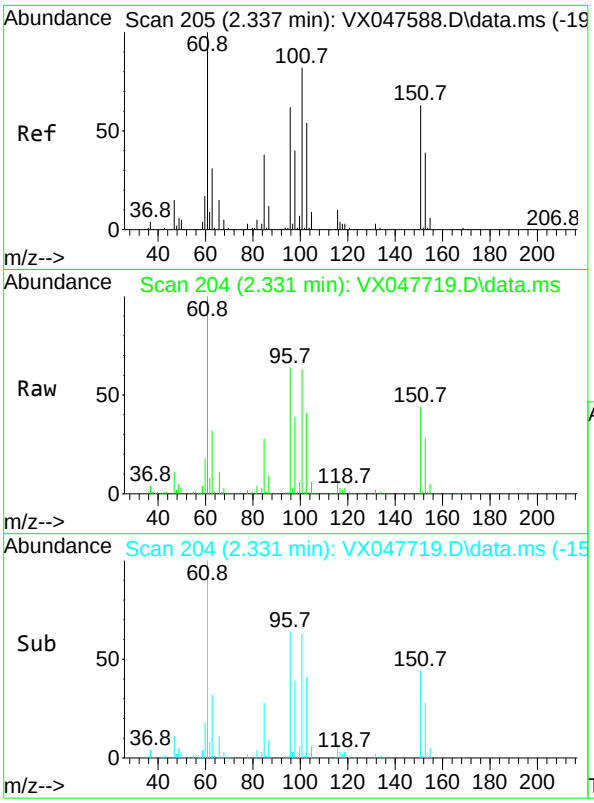


#8
Diethyl Ether
Concen: 57.259 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 74 Resp: 67493

Ion	Ratio	Lower	Upper
74	100		
45	104.1	52.3	156.8

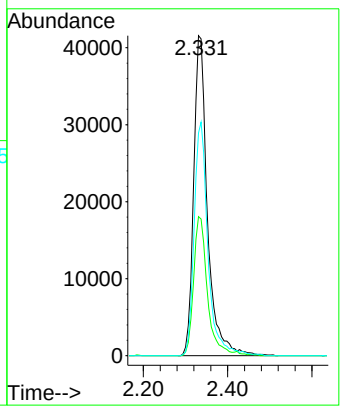




#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.200 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:101 Resp: 9469

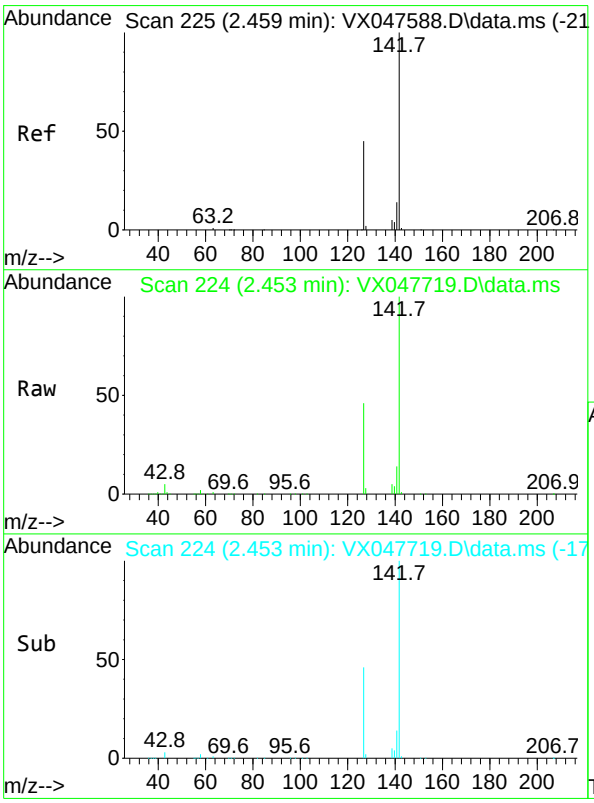
Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	73.5	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

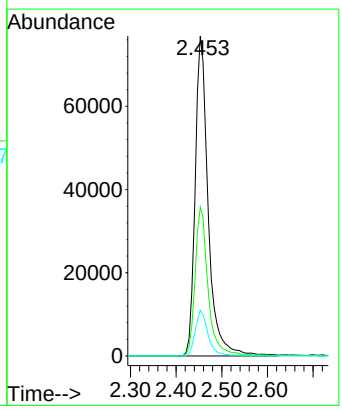
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

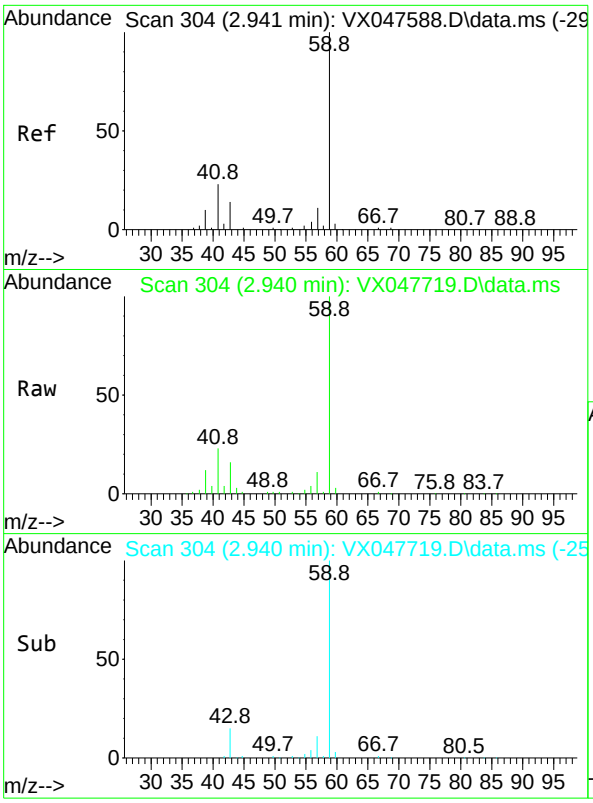


#10
Methyl Iodide
Concen: 58.055 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:142 Resp: 152554

Ion	Ratio	Lower	Upper
142	100		
127	46.2	37.2	55.8
141	14.2	11.4	17.0

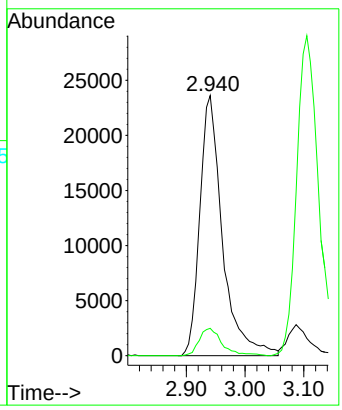




#11
Tert butyl alcohol
Concen: 244.621 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 59 Resp: 6317

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/24/2025
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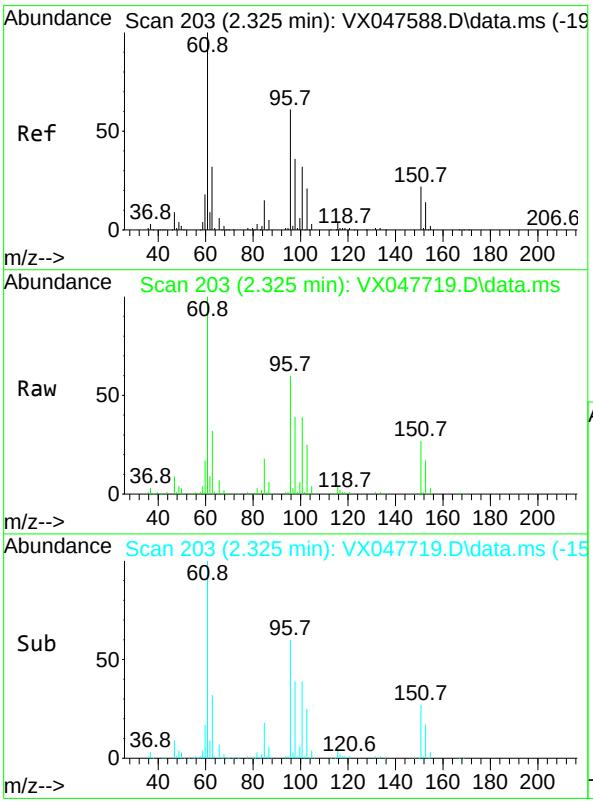
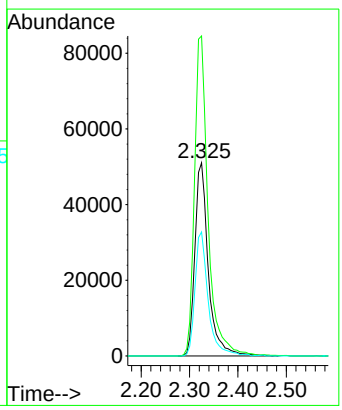
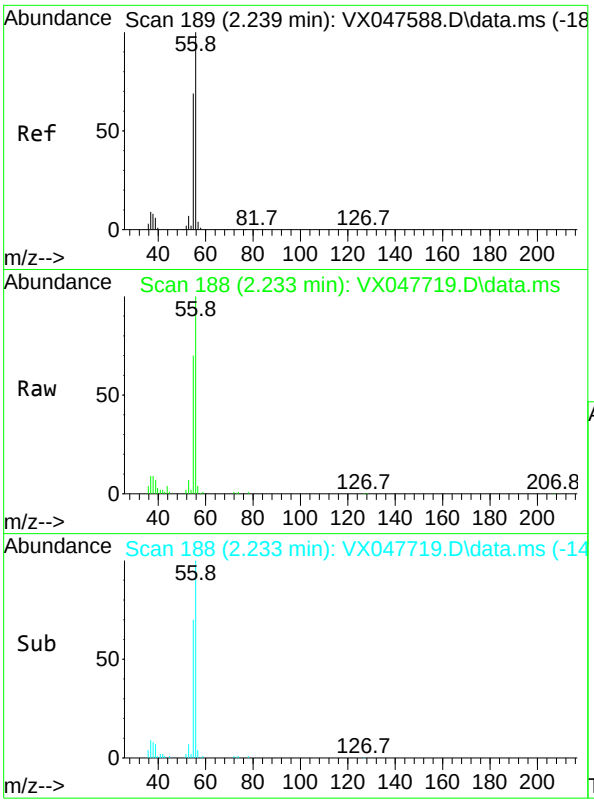


#12
1,1-Dichloroethene
Concen: 57.012 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 96 Resp: 98672

Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.0	196.6
98	64.2	47.7	71.5

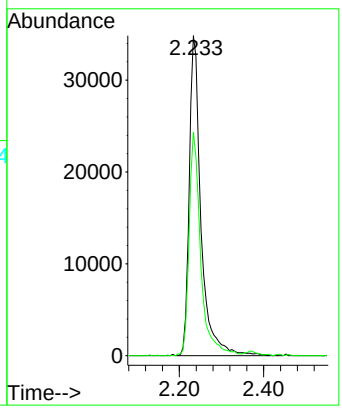




#13
Acrolein
Concen: 282.952 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 56 Resp: 6733

Ion	Ratio	Lower	Upper
56	100		
55	69.0	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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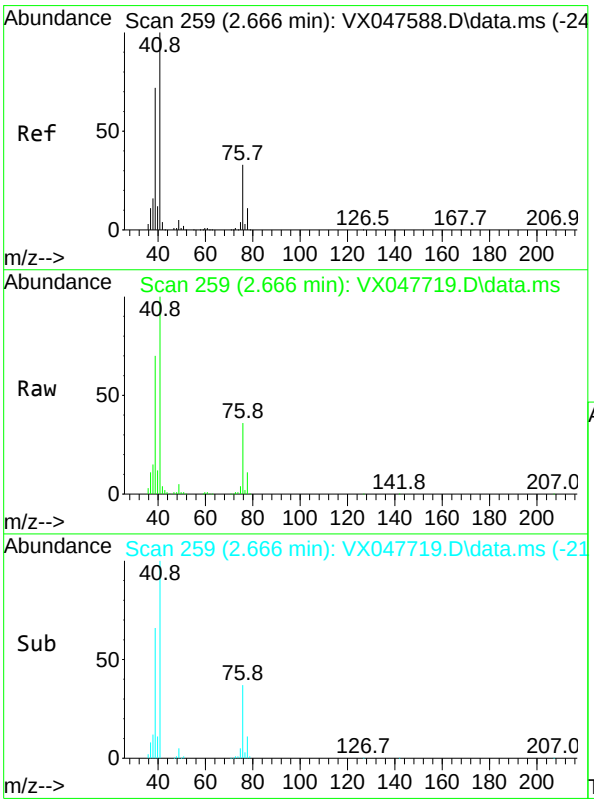
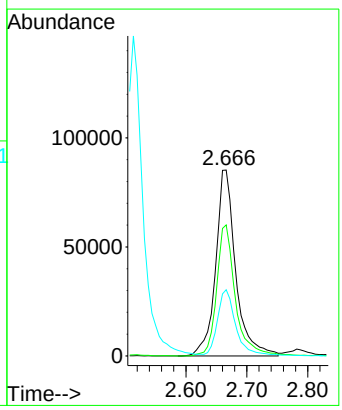
Supervised By :Mahesh Dadoda 09/26/2025

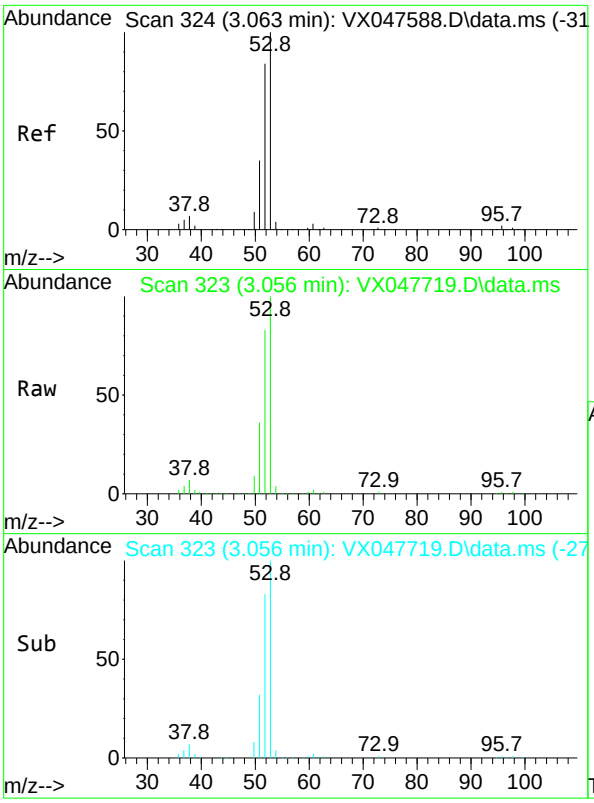


#14
Allyl chloride
Concen: 54.723 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 195439

Ion	Ratio	Lower	Upper
41	100		
39	66.1	54.7	82.1
76	32.6	25.7	38.5

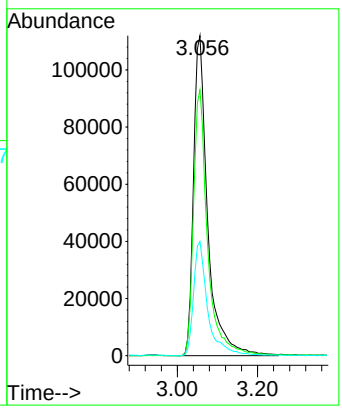




#15
Acrylonitrile
Concen: 287.505 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 53 Resp: 27501

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	35.8	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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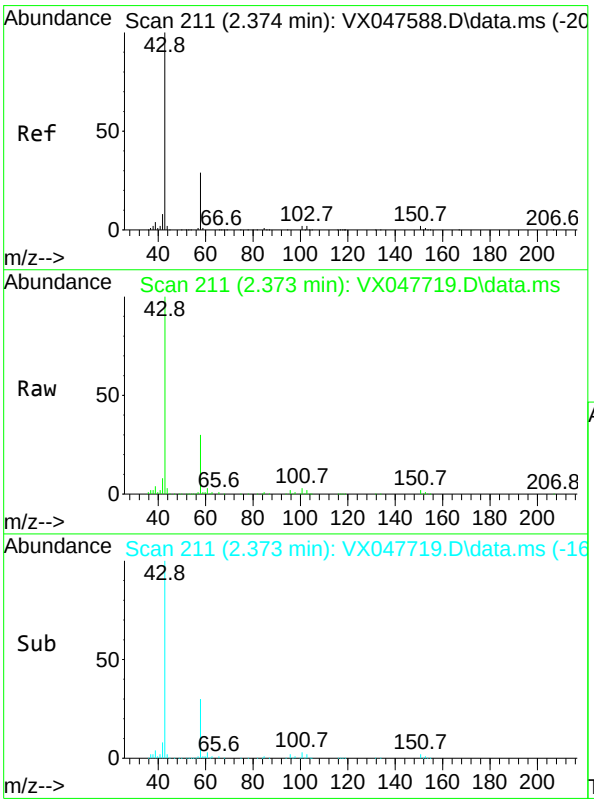
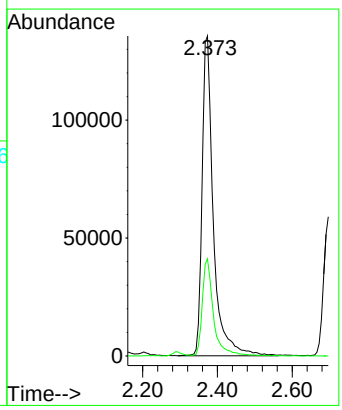
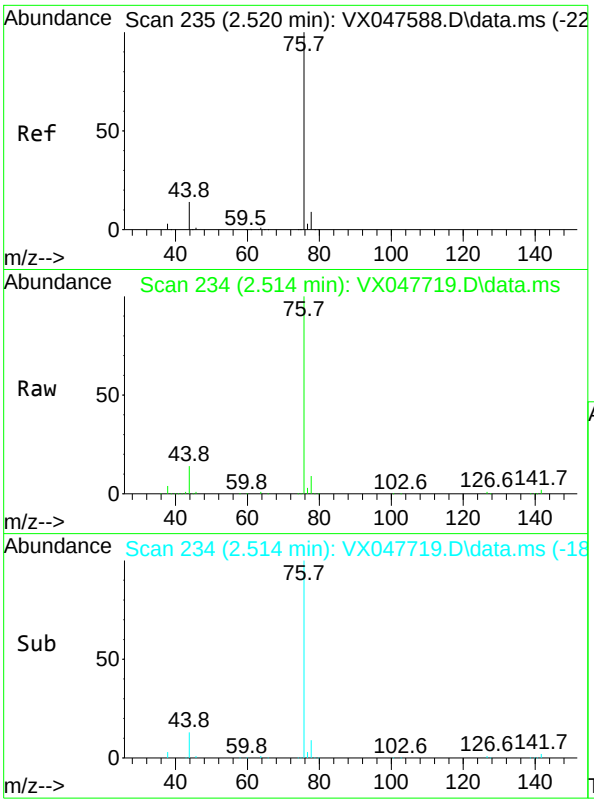


#16
Acetone
Concen: 280.166 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 282461

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.4	35.0

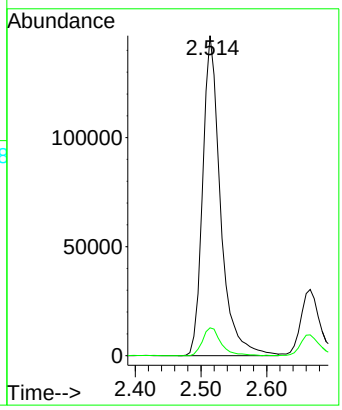




#17
Carbon Disulfide
Concen: 58.393 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 76 Resp: 27667

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.8	10.2



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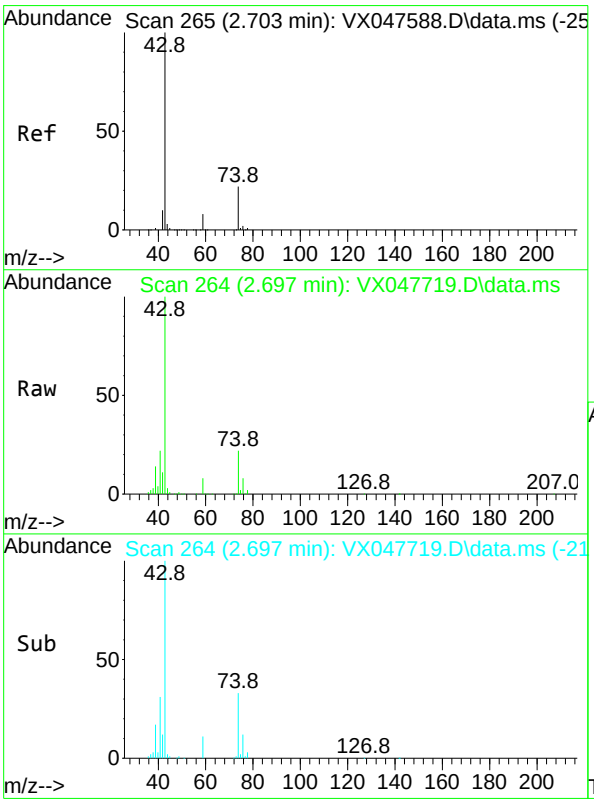
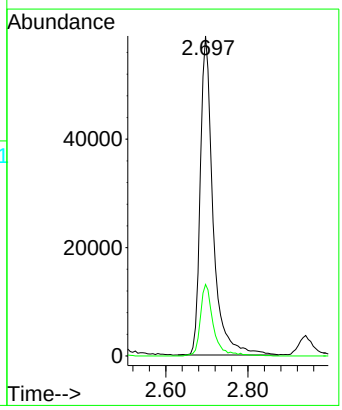
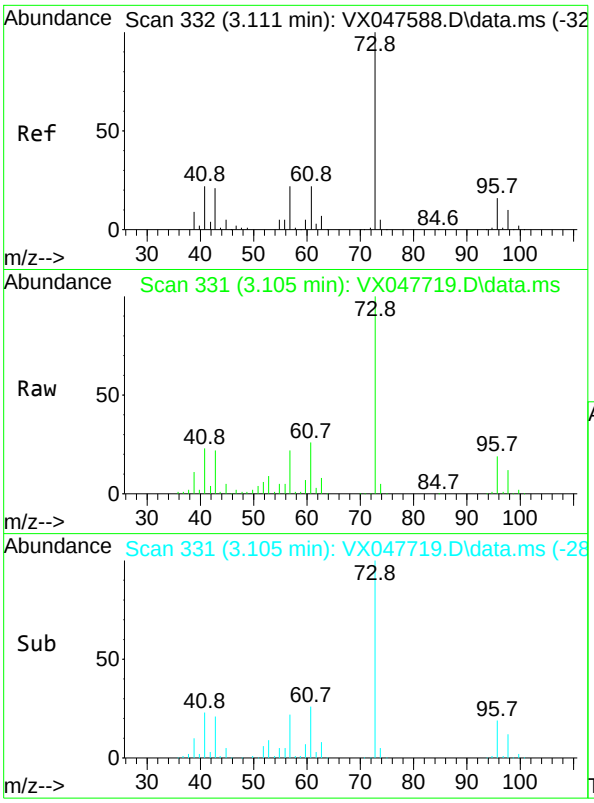


#18
Methyl Acetate
Concen: 56.673 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 127158

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

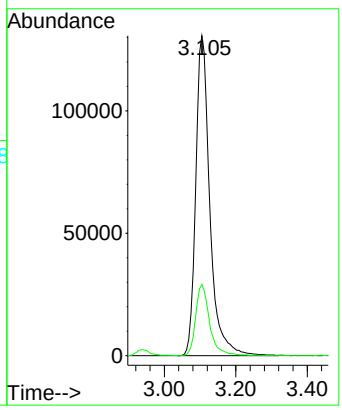




#19
Methyl tert-butyl Ether
Concen: 56.537 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 73 Resp: 35719

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2



Instrument :
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ClientSampleId :
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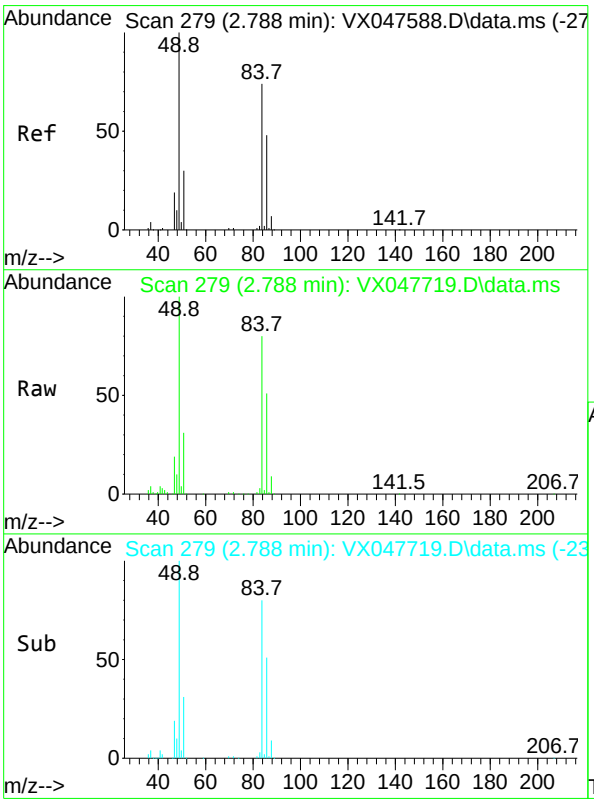
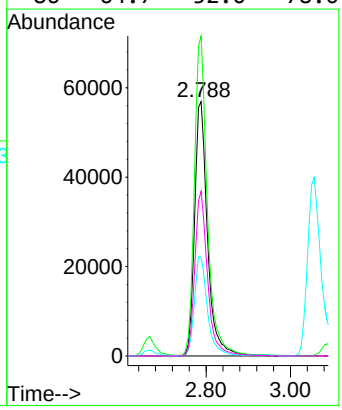
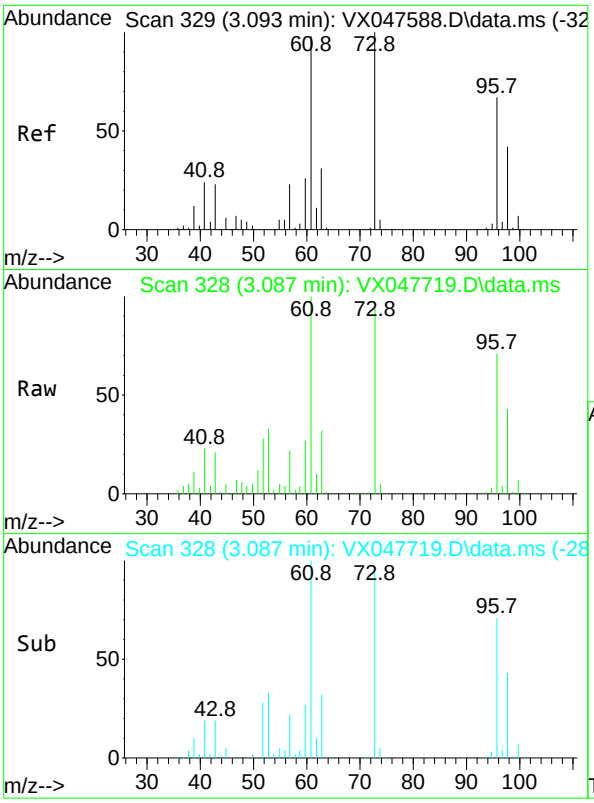


#20
Methylene Chloride
Concen: 56.815 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 84 Resp: 121247

Ion	Ratio	Lower	Upper
84	100		
49	125.5	108.6	162.8
51	38.9	32.6	48.8
86	64.7	52.0	78.0

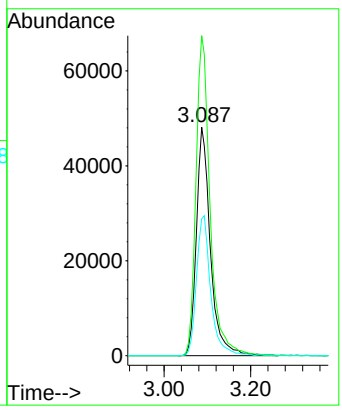




#21
trans-1,2-Dichloroethene
Concen: 57.928 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 96 Resp: 10794

Ion	Ratio	Lower	Upper
96	100		
61	140.0	116.2	174.2
98	59.9	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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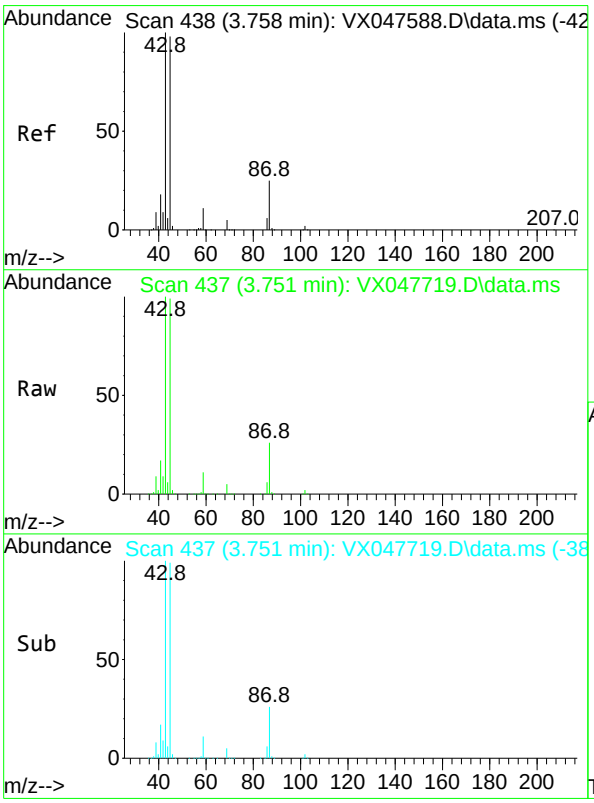
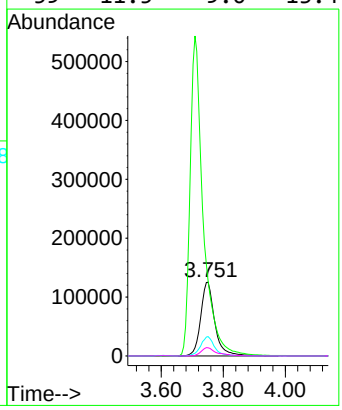
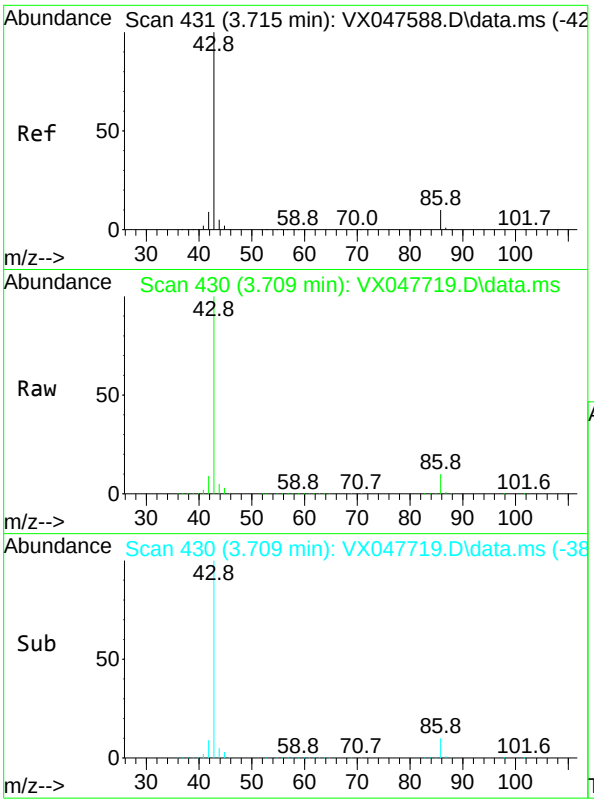


#22
Diisopropyl ether
Concen: 56.829 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 45 Resp: 393344

Ion	Ratio	Lower	Upper
45	100		
43	101.4	81.0	121.4
87	26.1	20.3	30.5
59	11.5	9.0	13.4

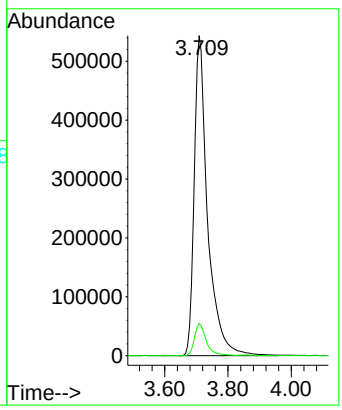




#23
Vinyl Acetate
Concen: 289.816 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 160546

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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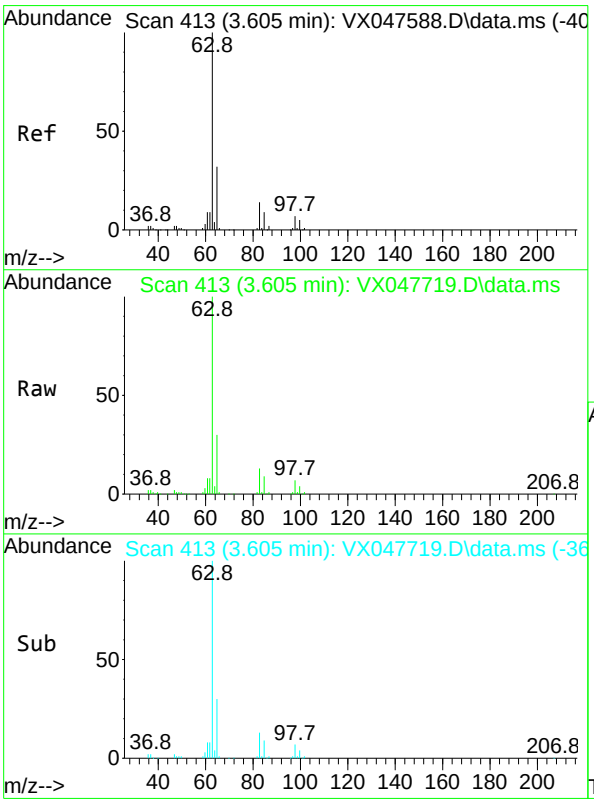
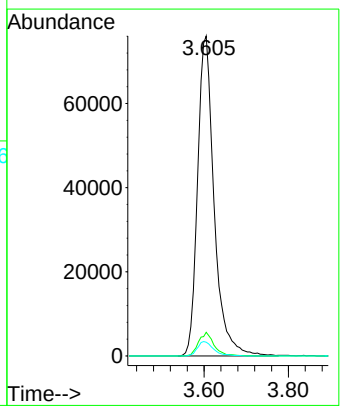
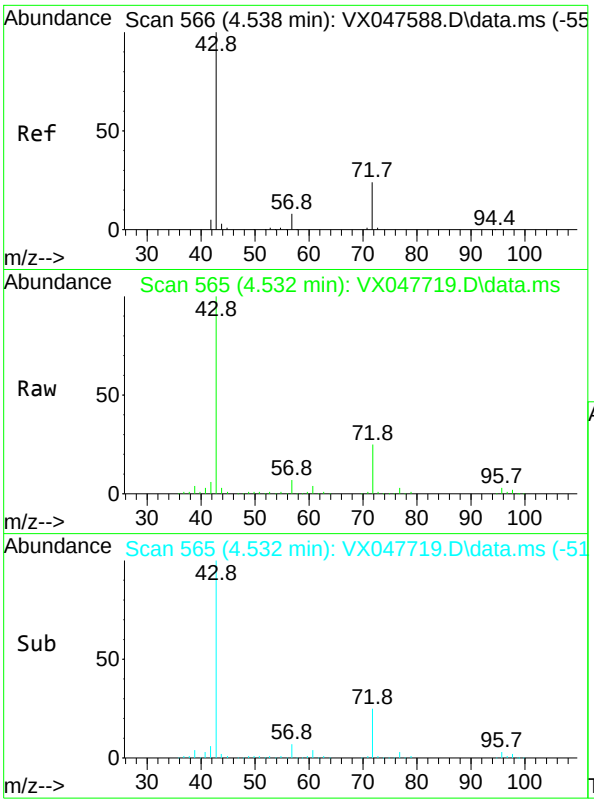


#24
1,1-Dichloroethane
Concen: 56.537 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 207990

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.3	2.3	6.9

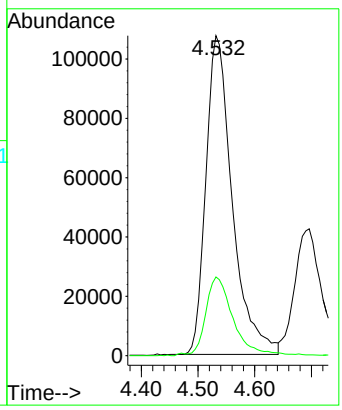




#25
2-Butanone
Concen: 276.163 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 34730

Ion	Ratio	Lower	Upper
43	100		
72	23.9	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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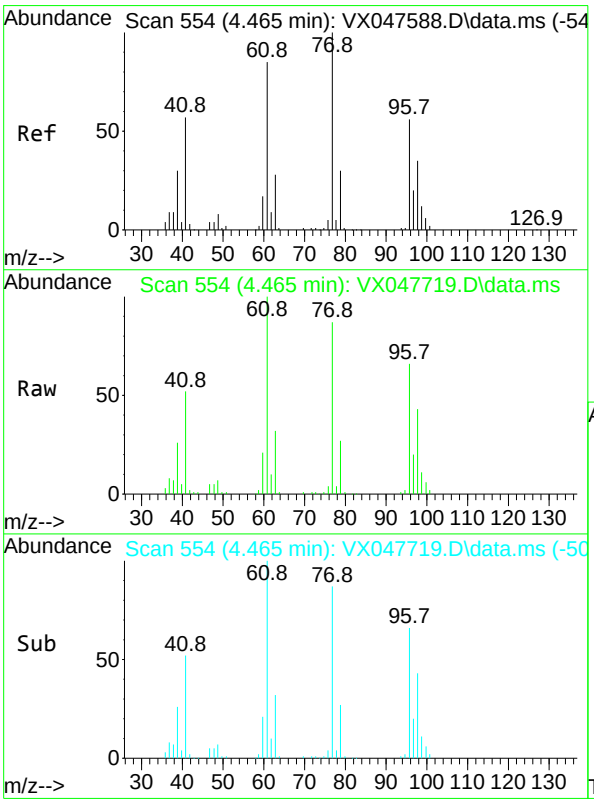
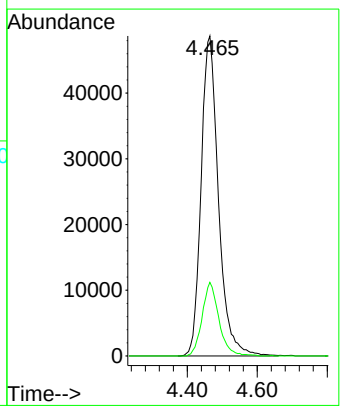
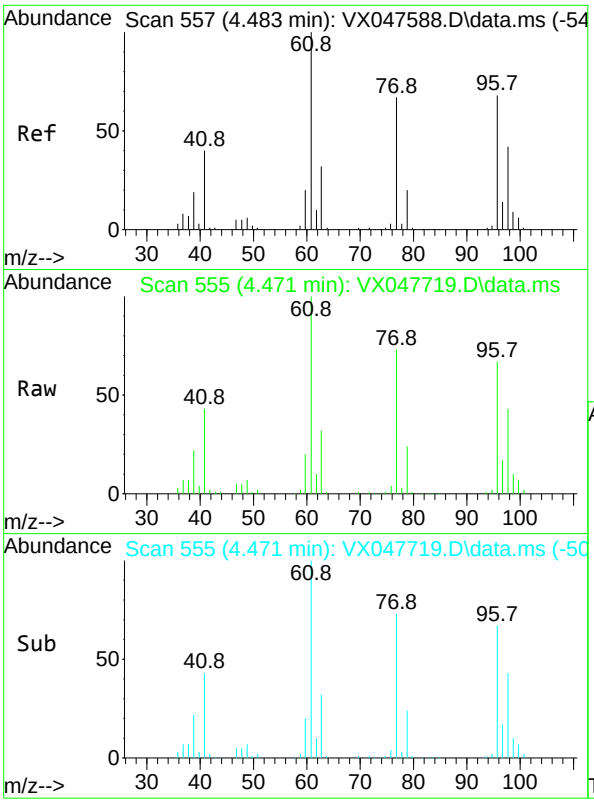


#26
2,2-Dichloropropane
Concen: 54.744 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 77 Resp: 167410

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.9	32.7

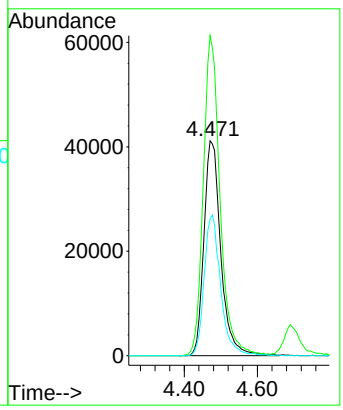




#27
cis-1,2-Dichloroethene
Concen: 57.629 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 96 Resp: 13150

Ion	Ratio	Lower	Upper
96	100		
61	148.0	0.0	303.2
98	64.1	0.0	127.8



Instrument :
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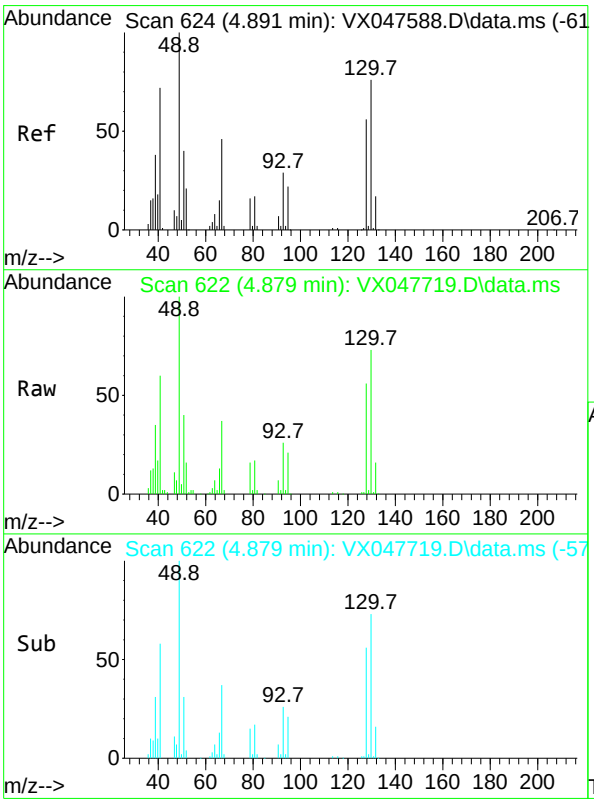
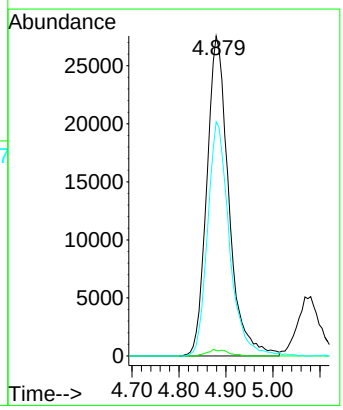
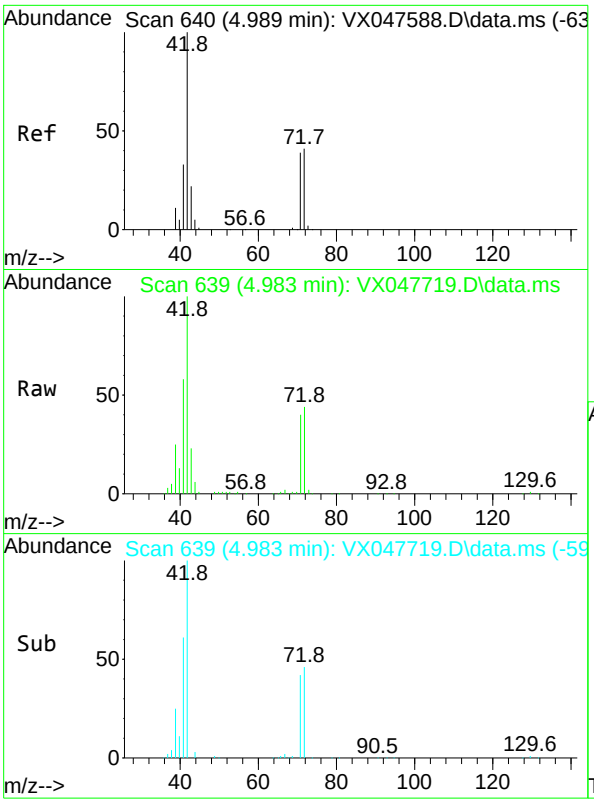


#28
Bromochloromethane
Concen: 55.520 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 49 Resp: 89169

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.8	57.8	86.8

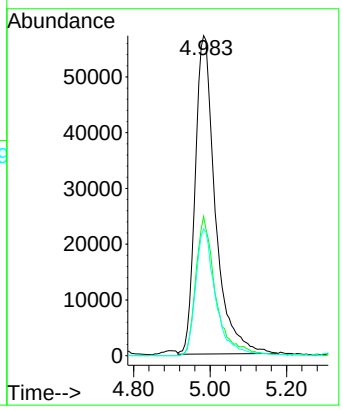




#29
Tetrahydrofuran
Concen: 274.666 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 42 Resp: 20779

Ion	Ratio	Lower	Upper
42	100		
72	43.5	34.2	51.2
71	40.0	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
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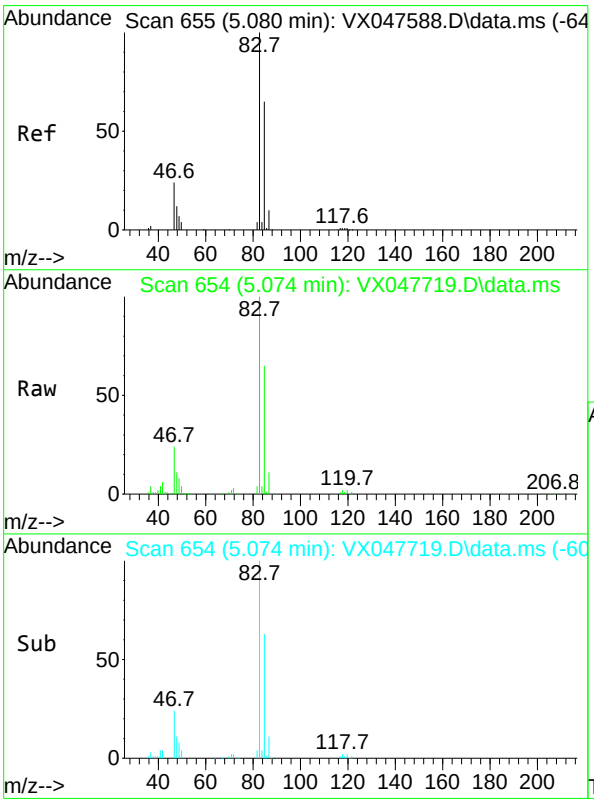
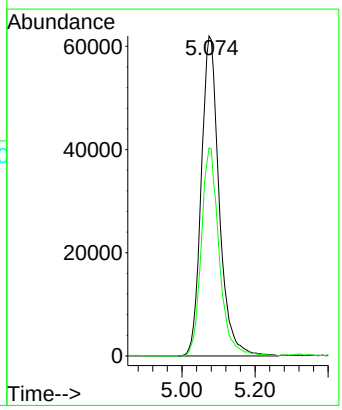
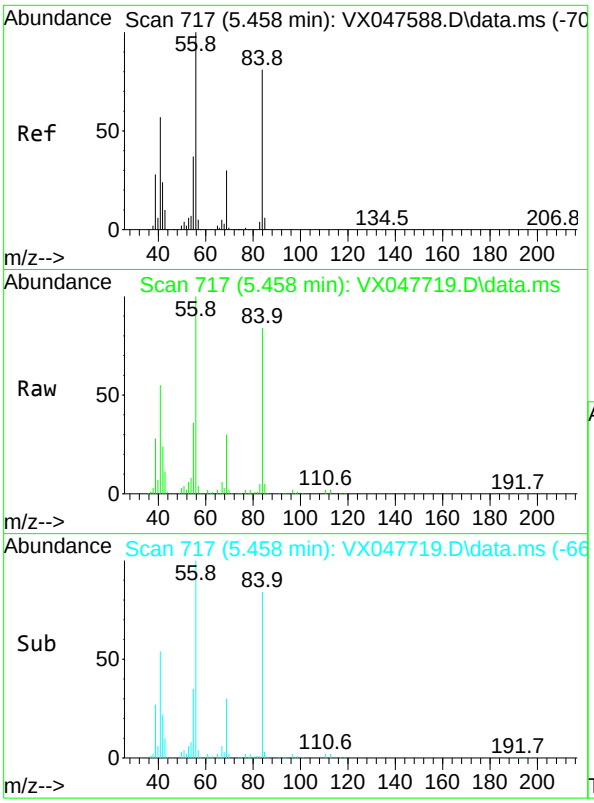


#30
Chloroform
Concen: 56.566 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 210287

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.8	77.6

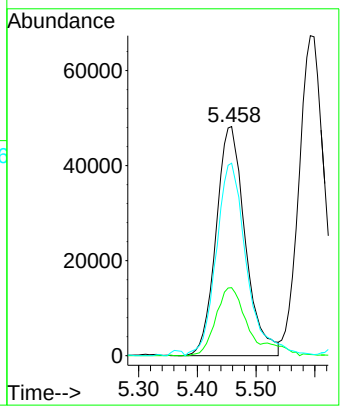




#31
Cyclohexane
Concen: 54.312 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 56 Resp: 16641

Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.8	35.8
84	81.9	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
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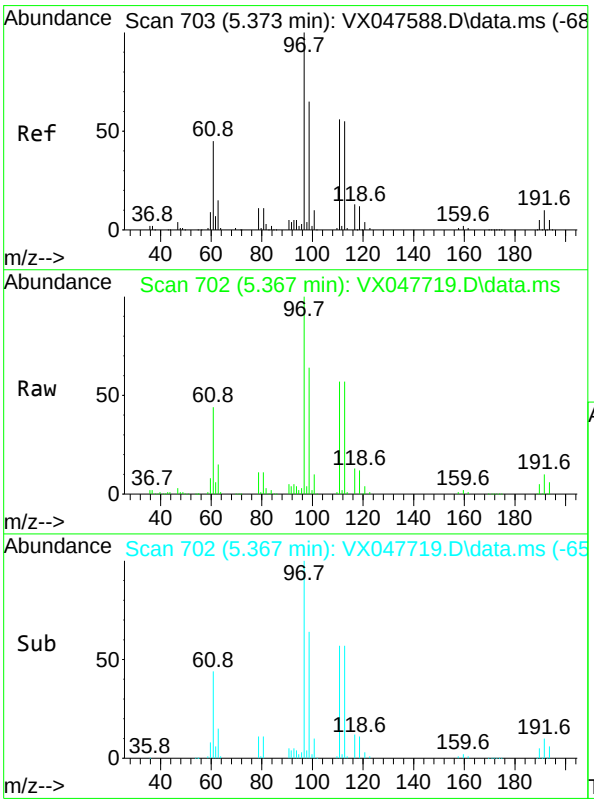
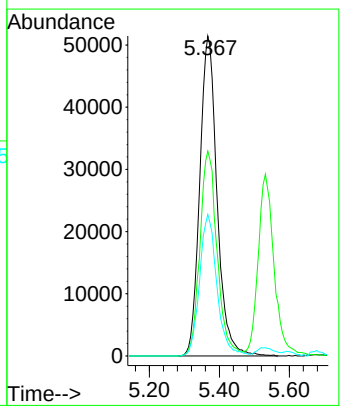
Supervised By :Mahesh Dadoda 09/26/2025

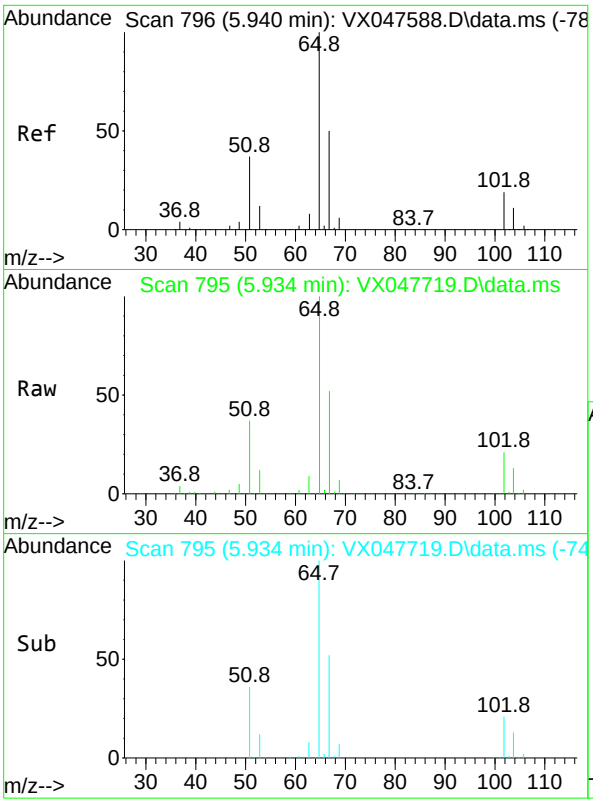


#32
1,1,1-Trichloroethane
Concen: 55.958 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 97 Resp: 176453

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	44.3	35.8	53.8

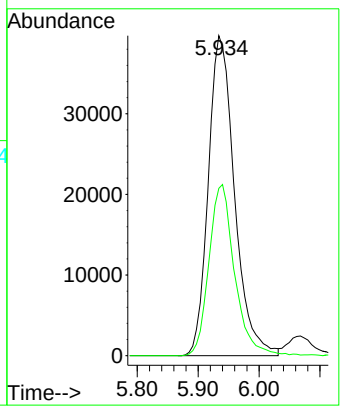




#33
1,2-Dichloroethane-d4
Concen: 51.280 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 65 Resp: 11890

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
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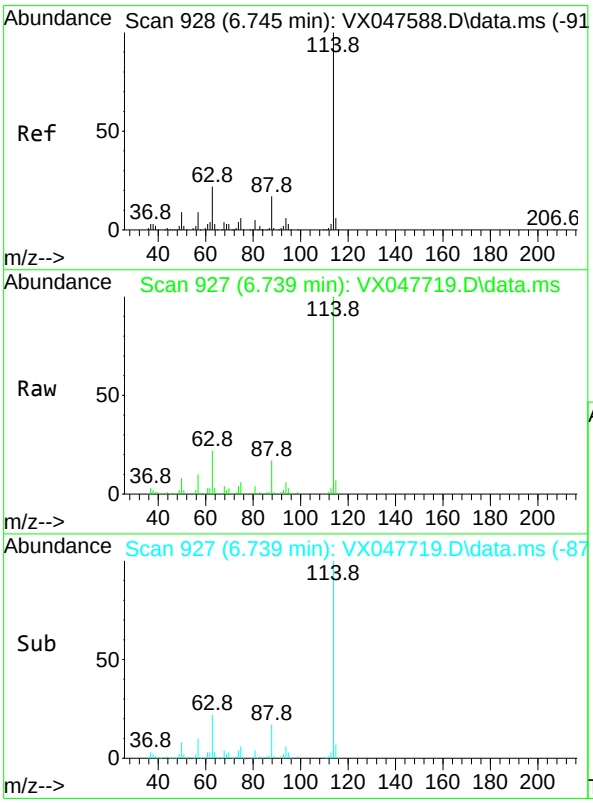
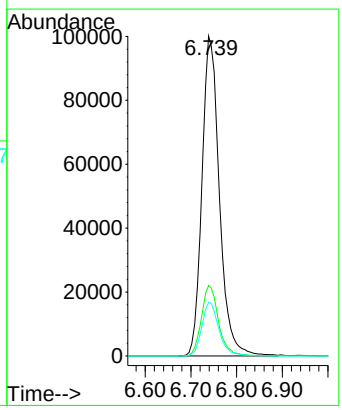
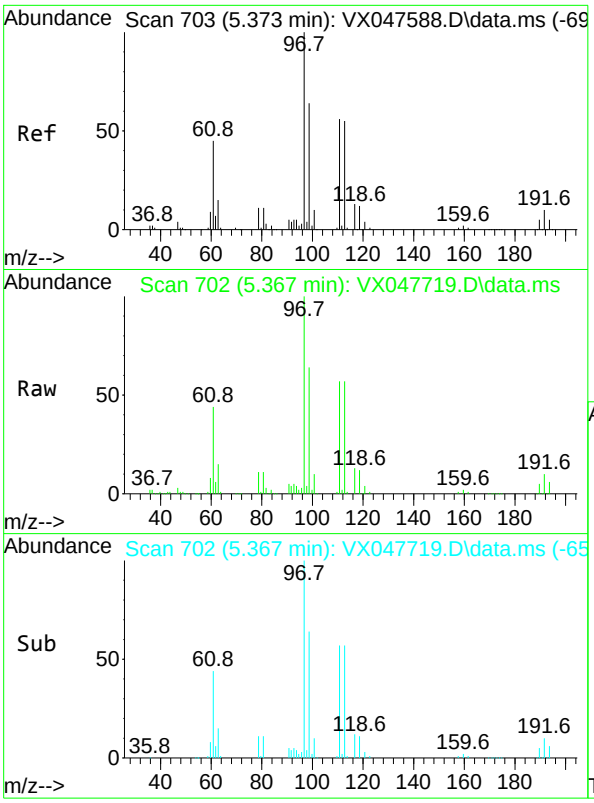


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:114 Resp: 265022

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	16.8	0.0	34.2

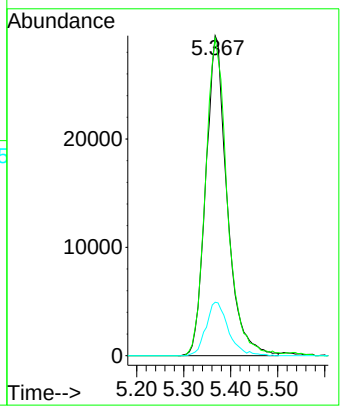




#35
Dibromofluoromethane
Concen: 52.461 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:113 Resp: 9324

Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.9	121.3
192	17.5	14.2	21.4



Instrument :
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VSTDCCC050

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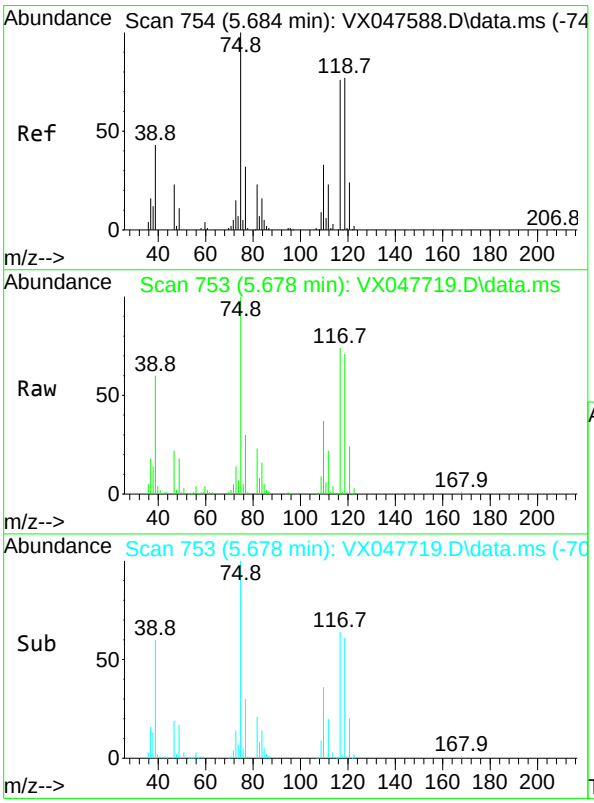
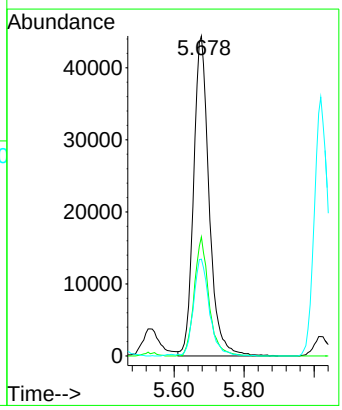
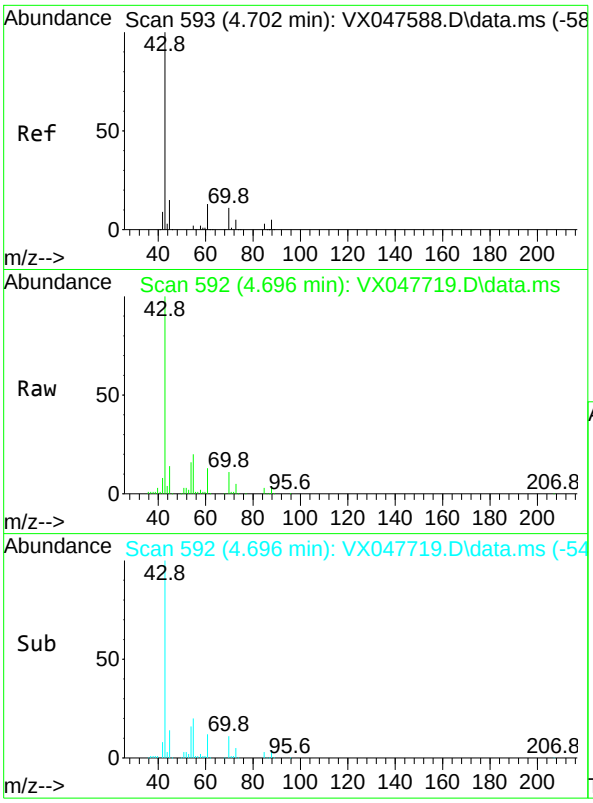


#36
1,1-Dichloropropene
Concen: 52.619 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 136661

Ion	Ratio	Lower	Upper
75	100		
110	35.1	16.7	50.1
77	30.9	24.3	36.5

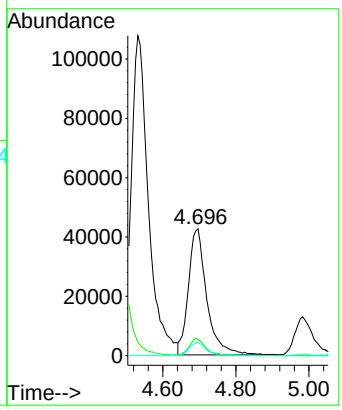




#37
Ethyl Acetate
Concen: 53.244 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 14806

Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.8	14.8
70	9.3	7.9	11.9



Instrument :
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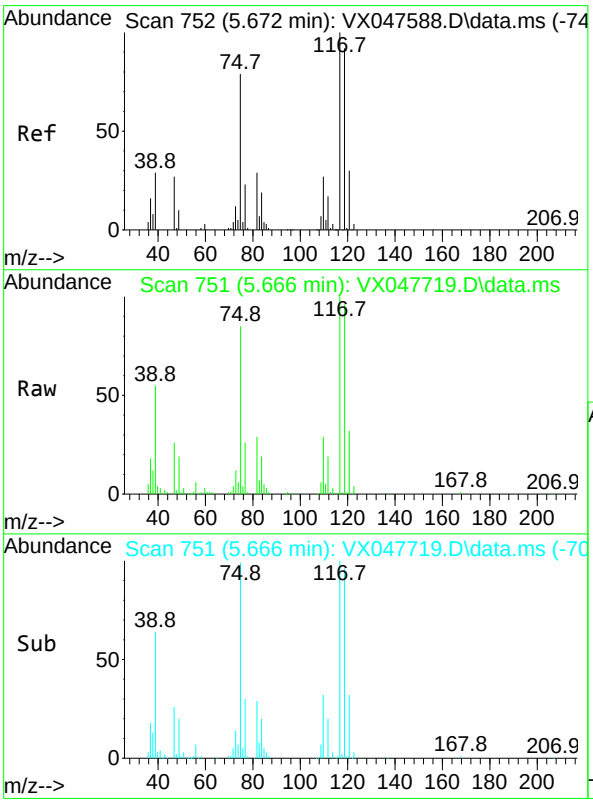
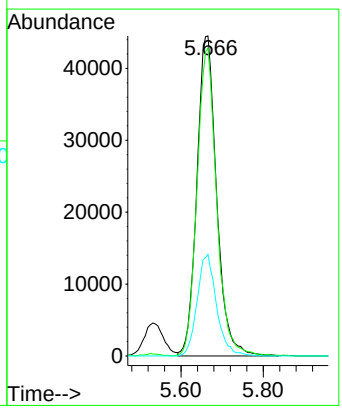
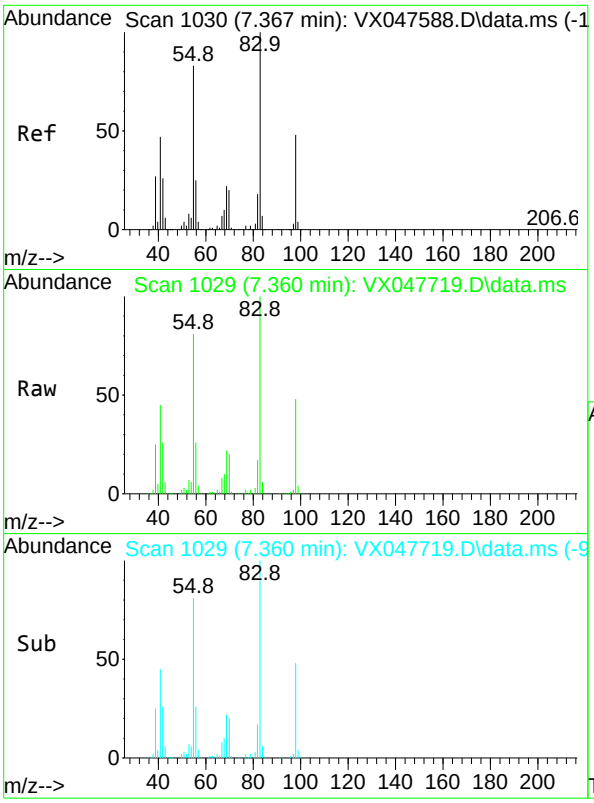


#38
Carbon Tetrachloride
Concen: 52.659 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:117 Resp: 148597

Ion	Ratio	Lower	Upper
117	100		
119	96.0	73.4	110.2
121	31.7	23.8	35.6

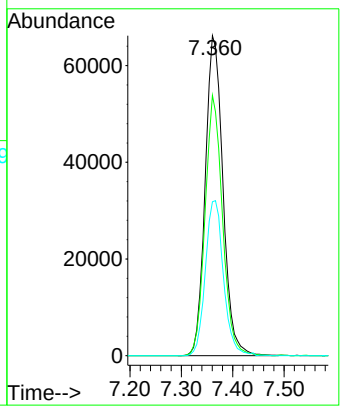




#39
Methylcyclohexane
Concen: 53.805 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 15862

Ion	Ratio	Lower	Upper
83	100		
55	81.4	66.4	99.6
98	48.1	38.1	57.1



Instrument :
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ClientSampleId :
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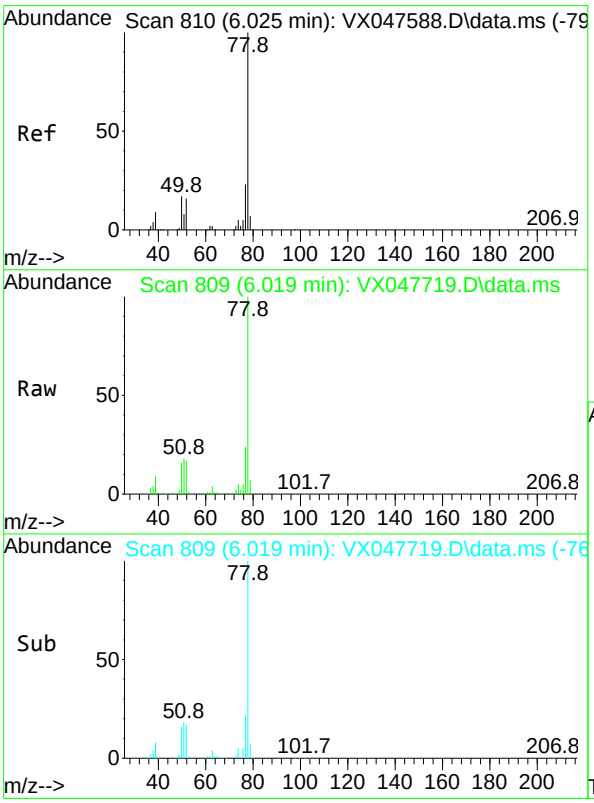
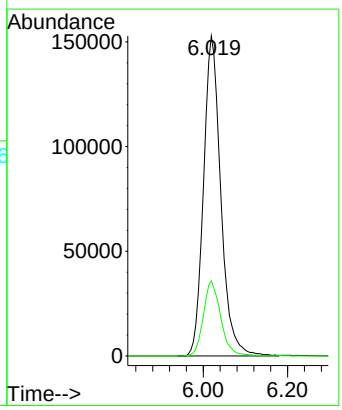
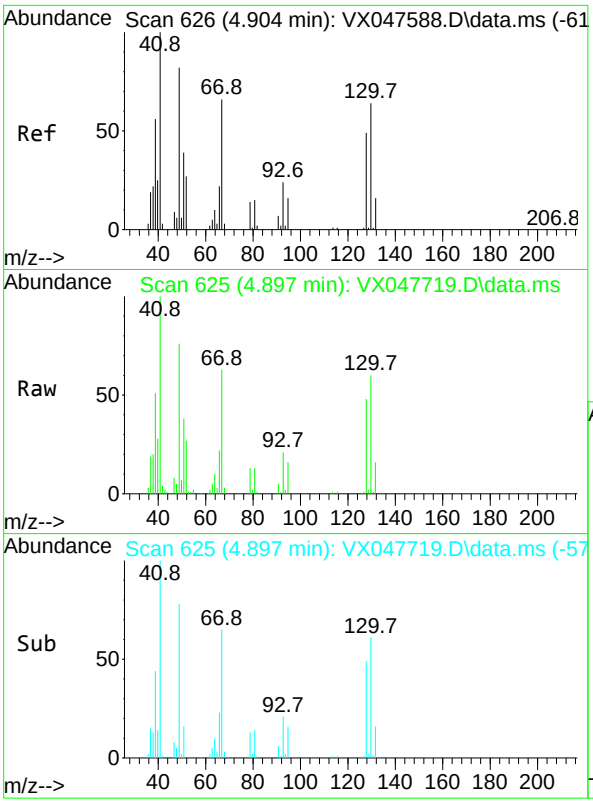


#40
Benzene
Concen: 55.328 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 78 Resp: 436446

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

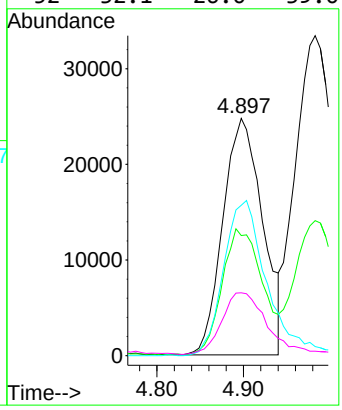




#41
Methacrylonitrile
Concen: 55.020 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 7898

Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.3	64.9
67	72.0	58.6	87.8
52	32.1	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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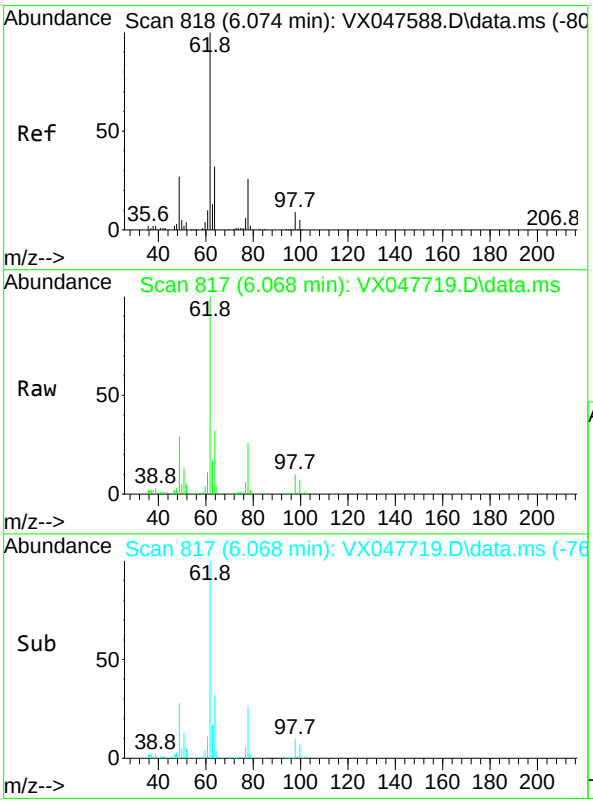
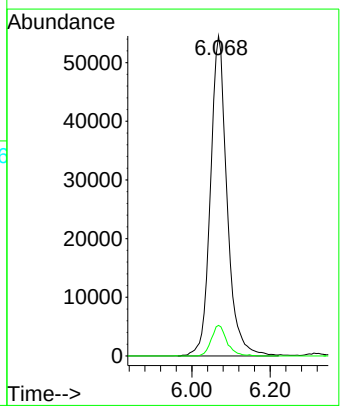
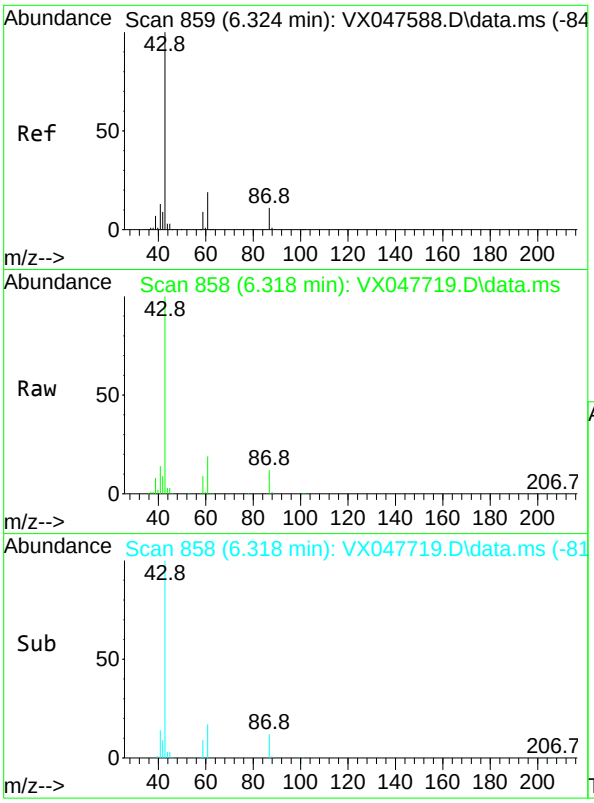


#42
1,2-Dichloroethane
Concen: 53.472 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 62 Resp: 160490

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0

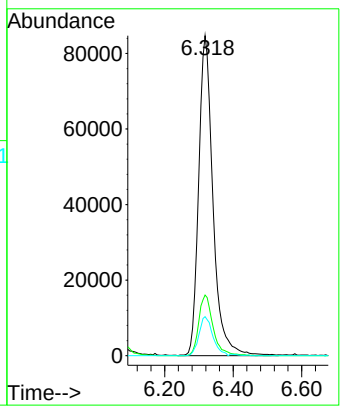




#43
Isopropyl Acetate
Concen: 54.094 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 24670

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	11.7	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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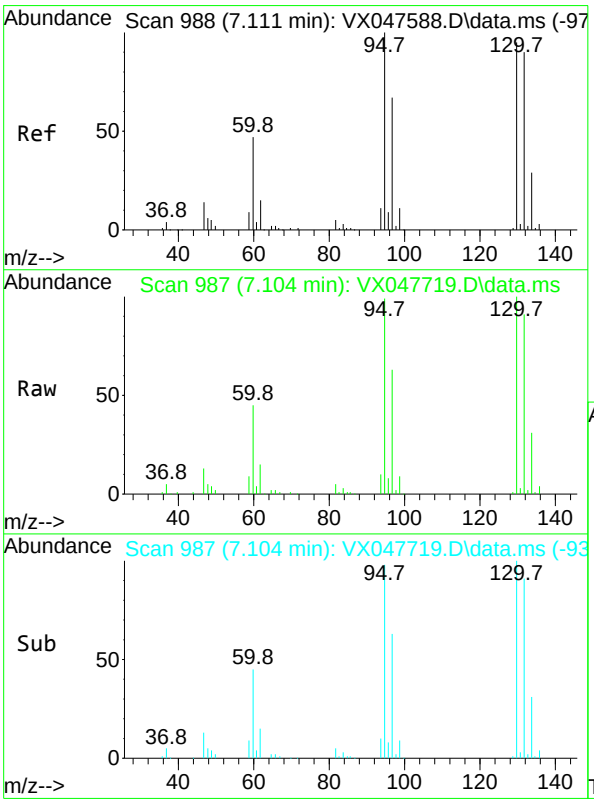
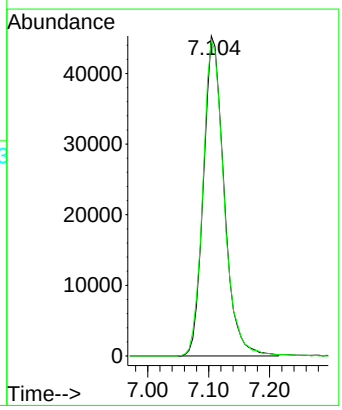
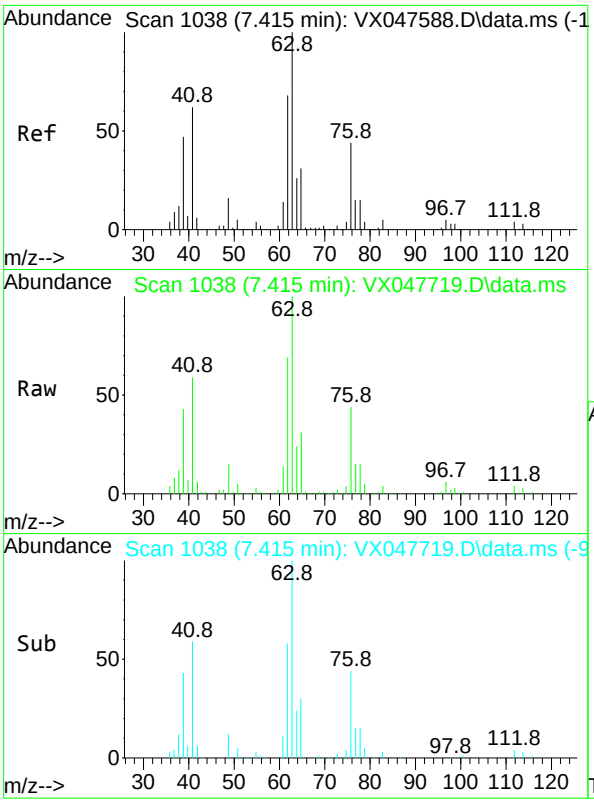


#44
Trichloroethene
Concen: 55.974 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:130 Resp: 106747

Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	210.8

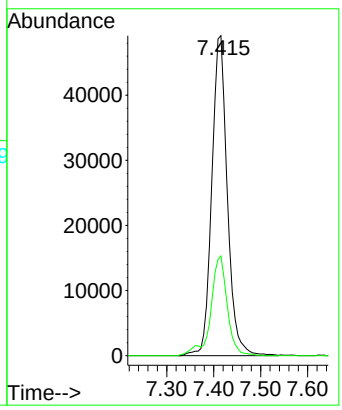




#45
1,2-Dichloropropane
Concen: 55.852 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 11281

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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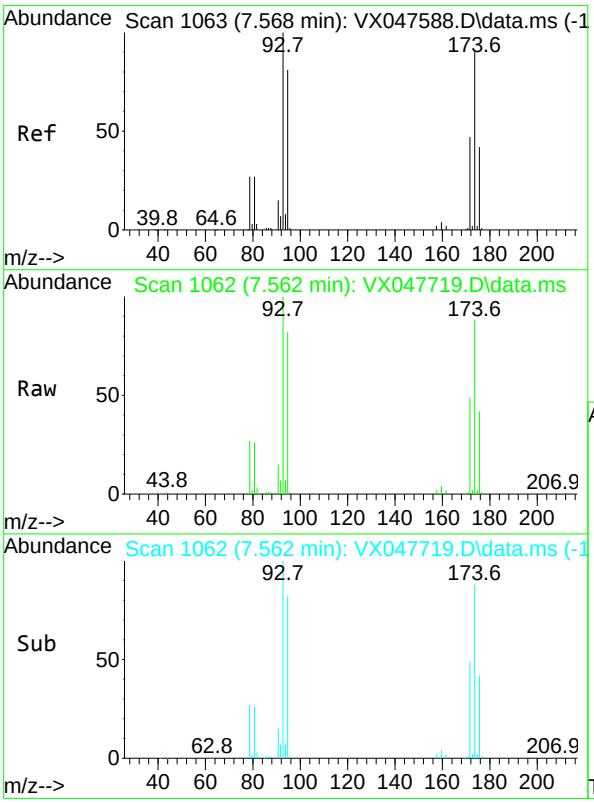
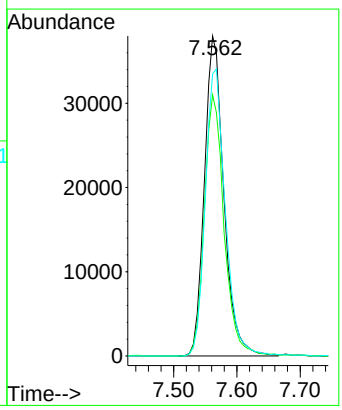
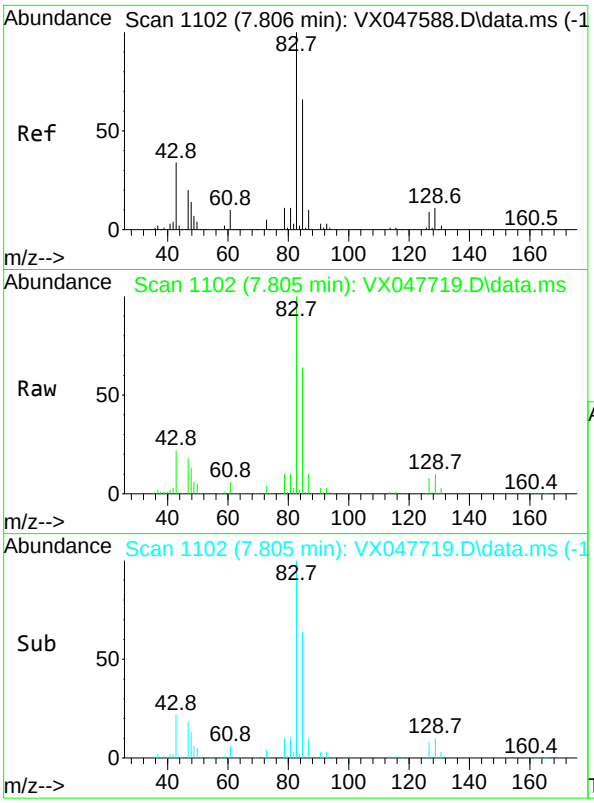


#46
Dibromomethane
Concen: 55.264 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 93 Resp: 81231

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.0	97.6
174	92.6	71.6	107.4

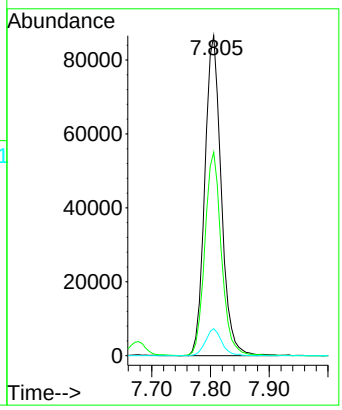




#47
Bromodichloromethane
Concen: 55.419 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 16809

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.5	78.7
127	8.4	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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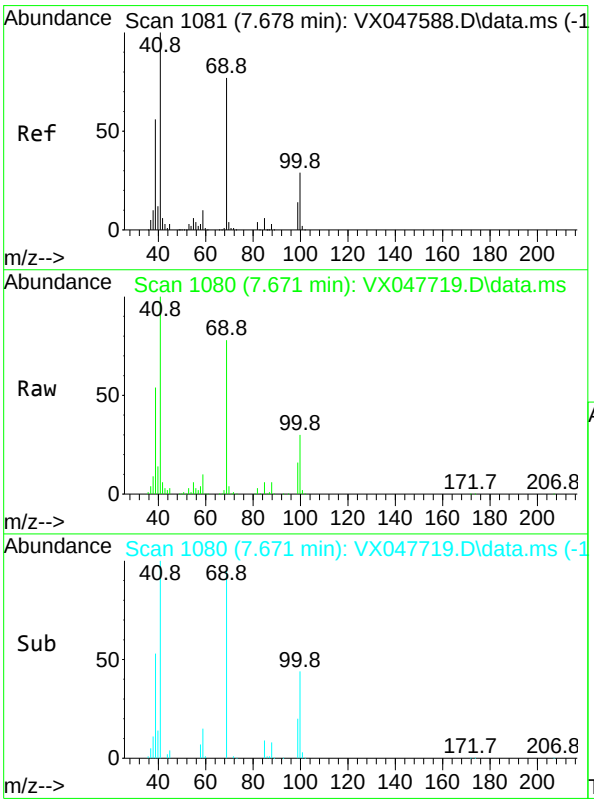
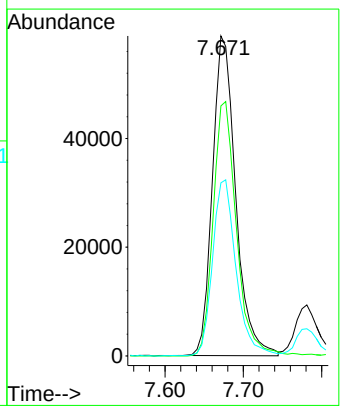
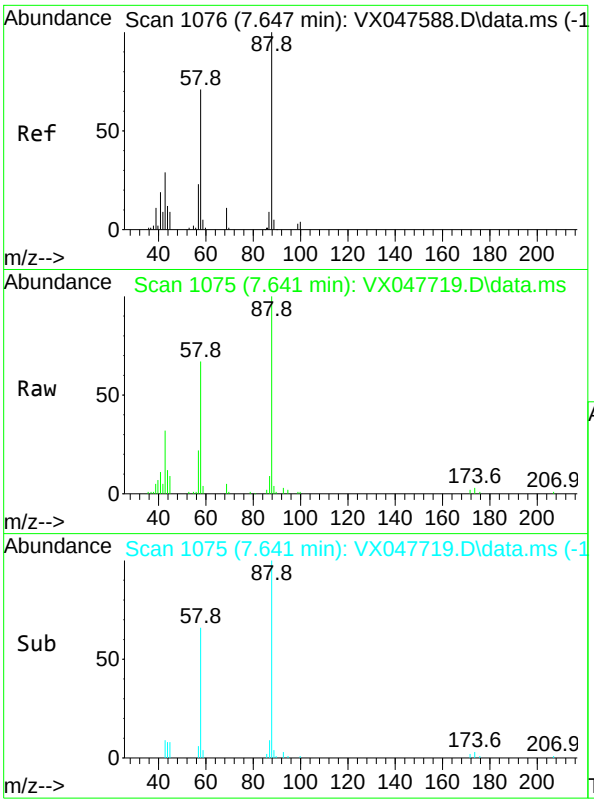


#48
Methyl methacrylate
Concen: 53.434 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 121390

Ion	Ratio	Lower	Upper
41	100		
69	79.4	61.4	92.2
39	55.8	45.8	68.6

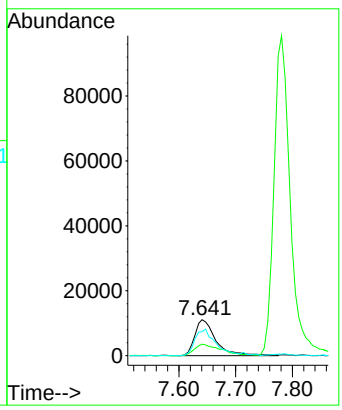




#49
1,4-Dioxane
Concen: 1254.001 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 88 Resp: 2879

Ion	Ratio	Lower	Upper
88	100		
43	40.3	30.2	45.2
58	74.5	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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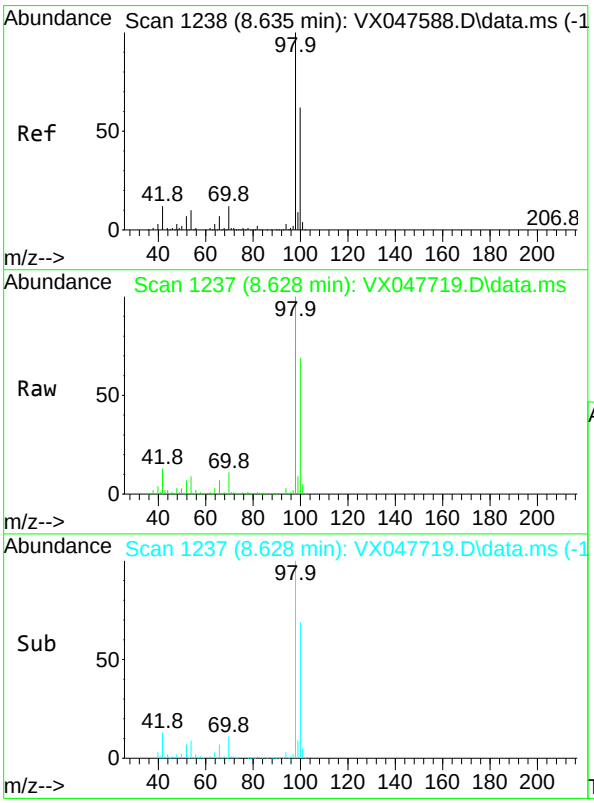
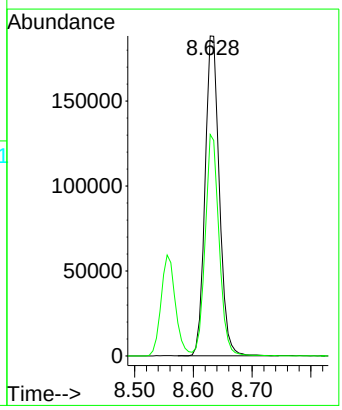
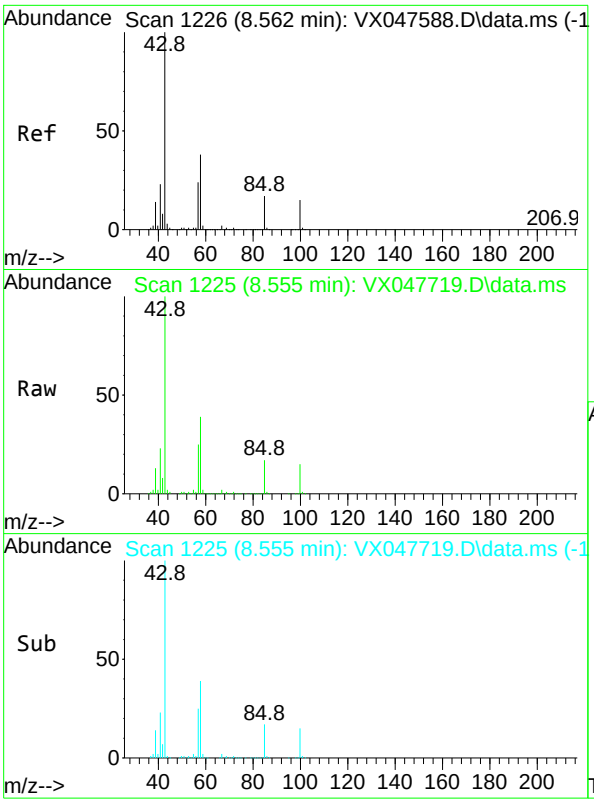


#50
Toluene-d8
Concen: 51.720 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 98 Resp: 318085

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

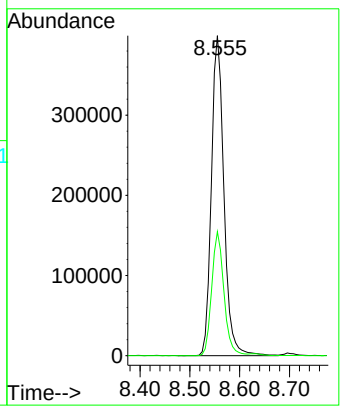




#51
4-Methyl-2-Pentanone
Concen: 275.127 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 69570

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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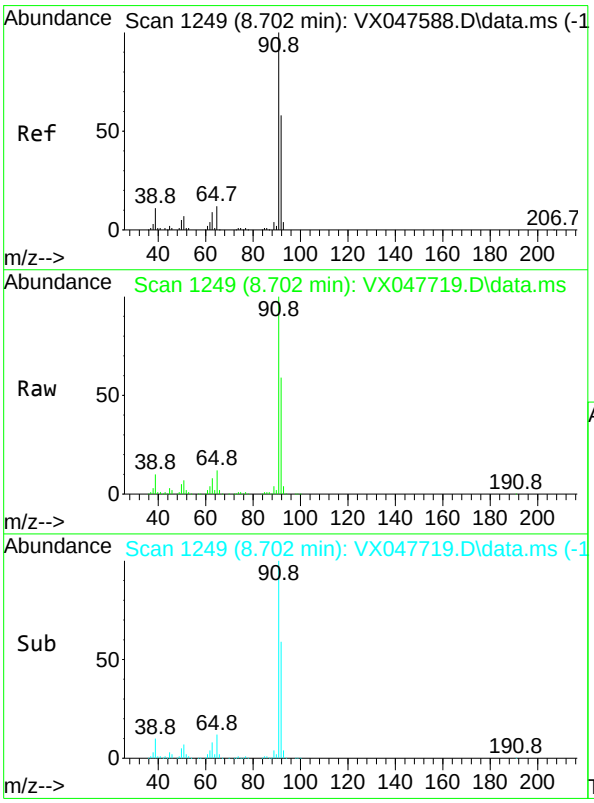
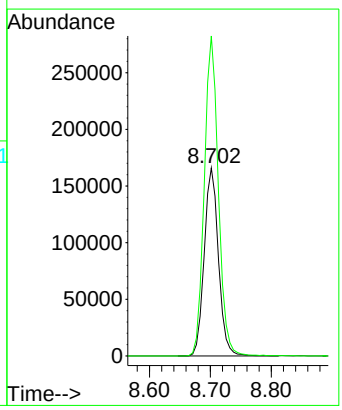
Supervised By :Mahesh Dadoda 09/26/2025

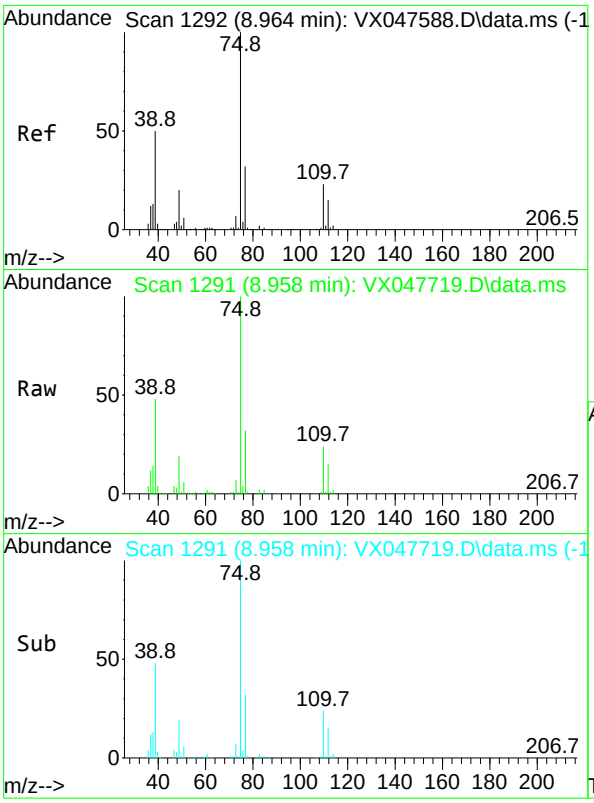


#52
Toluene
Concen: 55.411 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 92 Resp: 269293

Ion	Ratio	Lower	Upper
92	100		
91	168.5	137.1	205.7

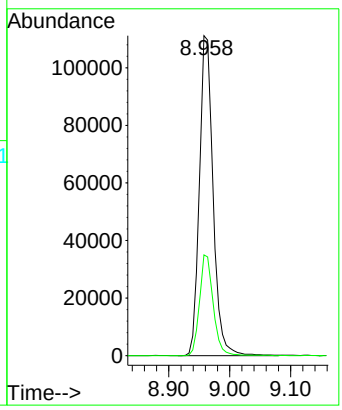




#53
t-1,3-Dichloropropene
Concen: 56.347 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 17433

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.2



Instrument :
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ClientSampleId :
VSTDCCC050

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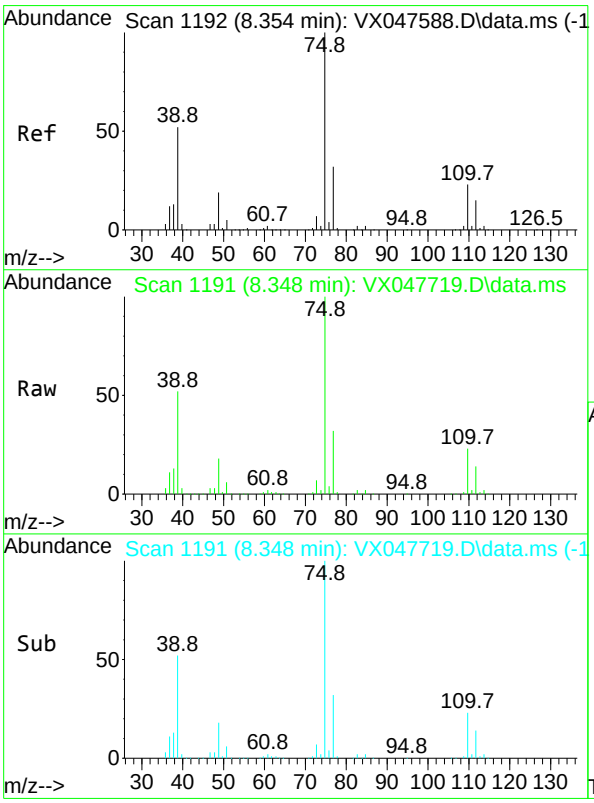
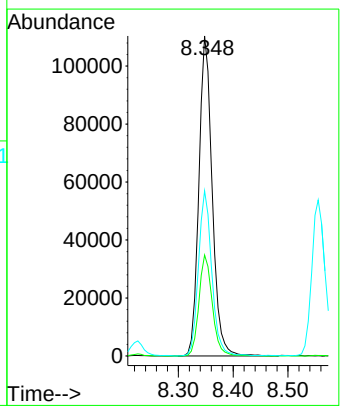
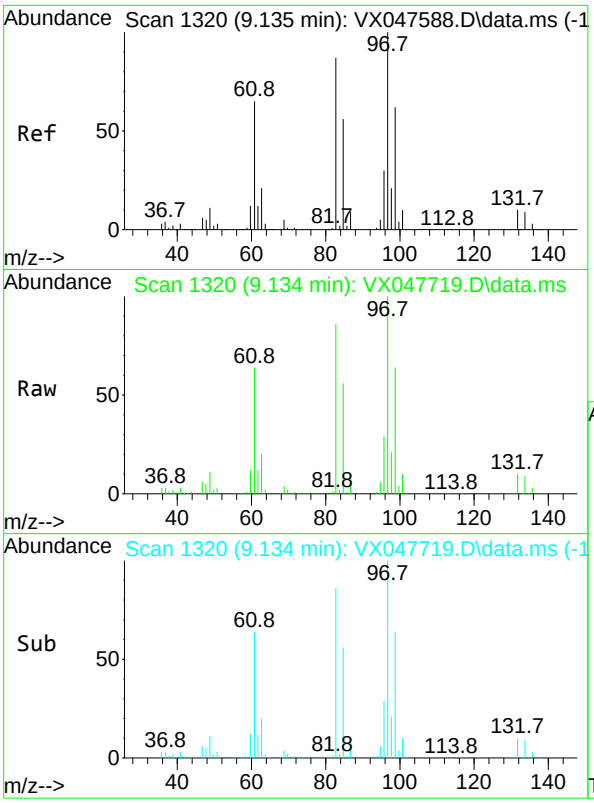


#54
cis-1,3-Dichloropropene
Concen: 56.434 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 186621

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.8	38.6
39	51.5	41.4	62.2

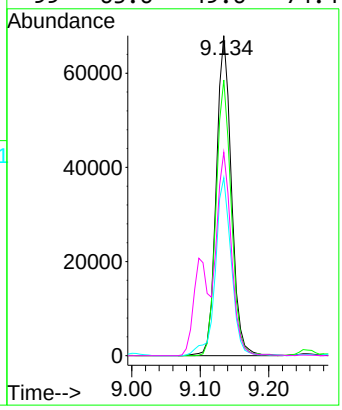




#55
1,1,2-Trichloroethane
Concen: 55.502 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 97 Resp: 10400

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	55.6	45.0	67.6
99	63.6	49.6	74.4



Instrument :
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ClientSampleId :
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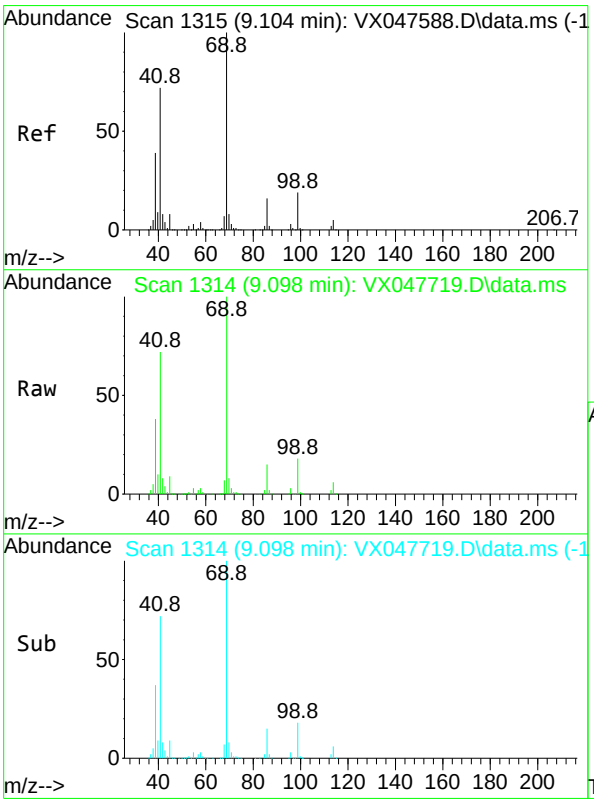
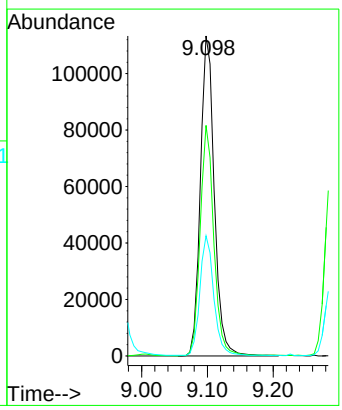
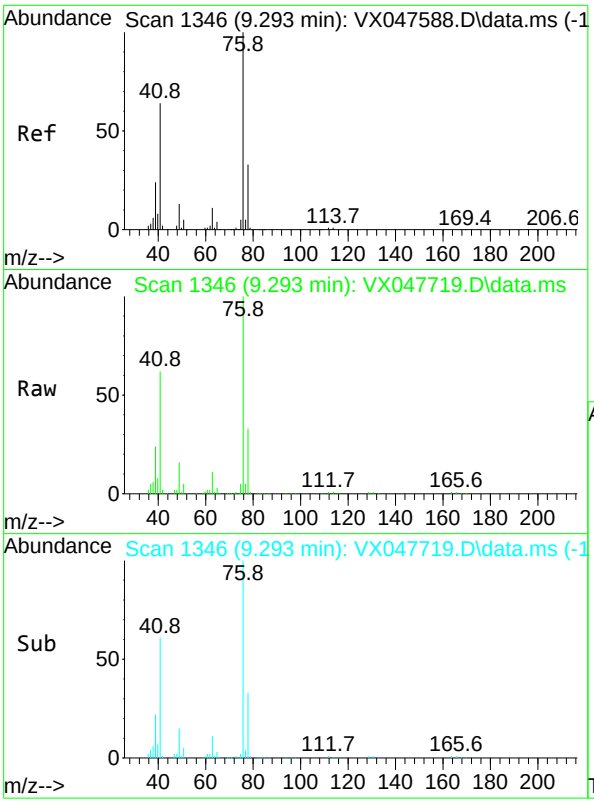


#56
Ethyl methacrylate
Concen: 56.751 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 69 Resp: 167018

Ion	Ratio	Lower	Upper
69	100		
41	70.6	58.6	87.8
39	37.2	31.5	47.3

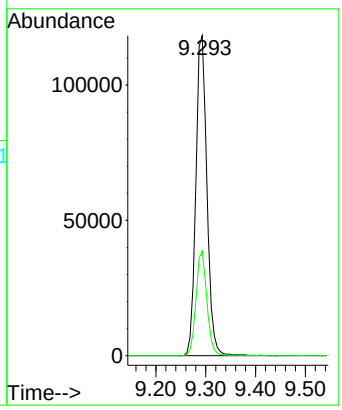




#57
1,3-Dichloropropane
Concen: 56.707 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 76 Resp: 18255

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
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ClientSampleId :
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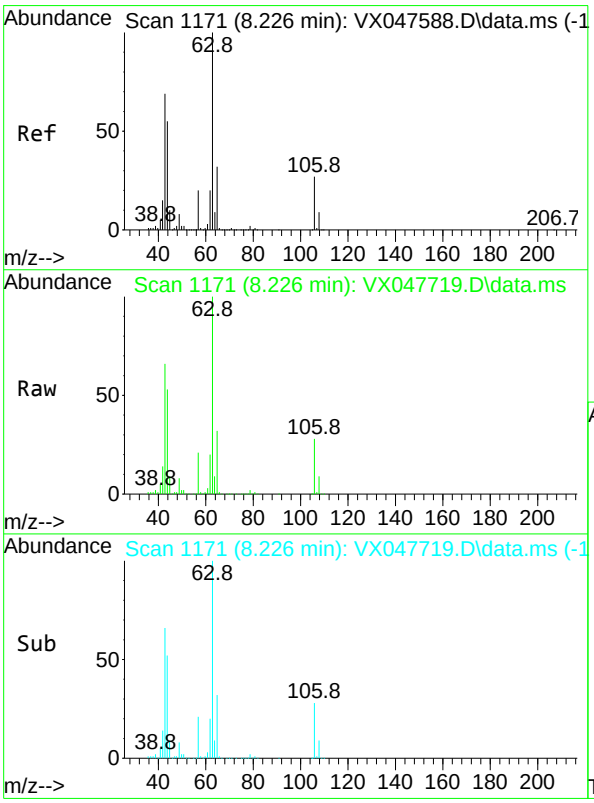
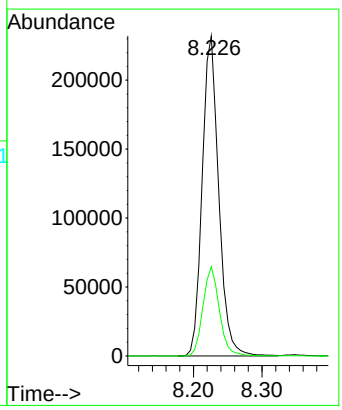
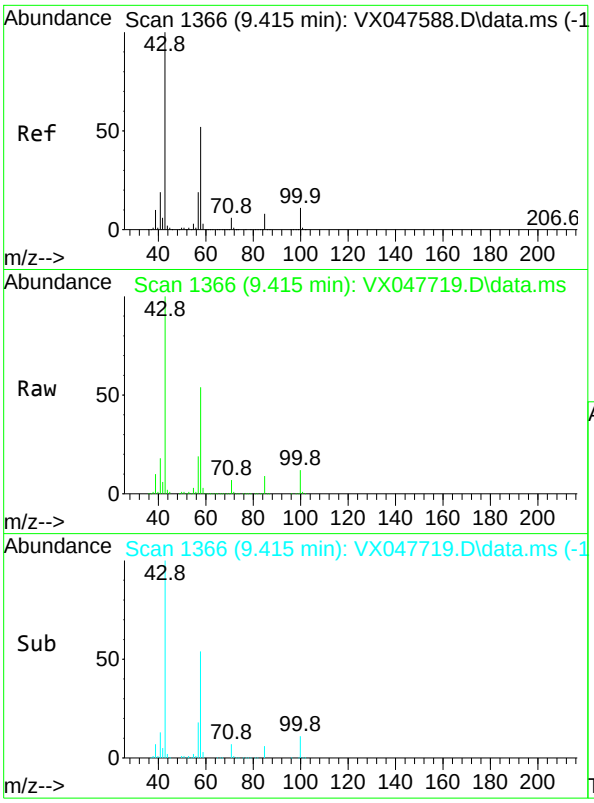


#58
2-Chloroethyl Vinyl ether
Concen: 274.956 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 389211

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9

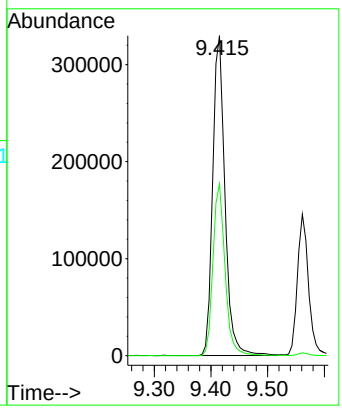




#59
2-Hexanone
Concen: 272.845 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 49551

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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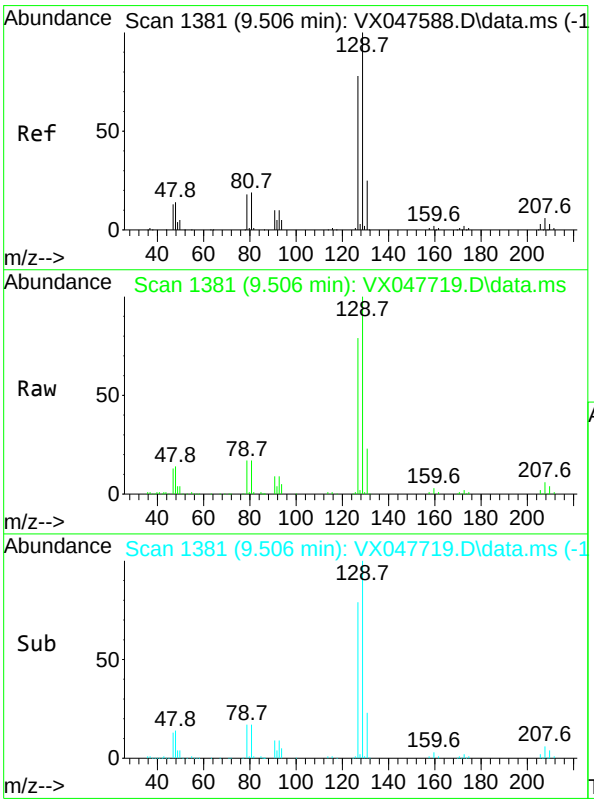
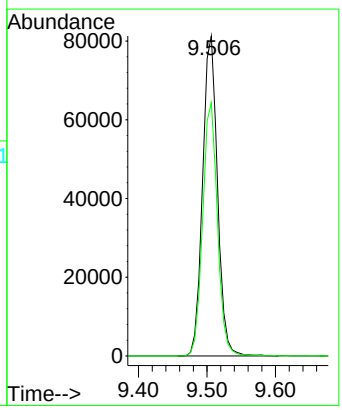
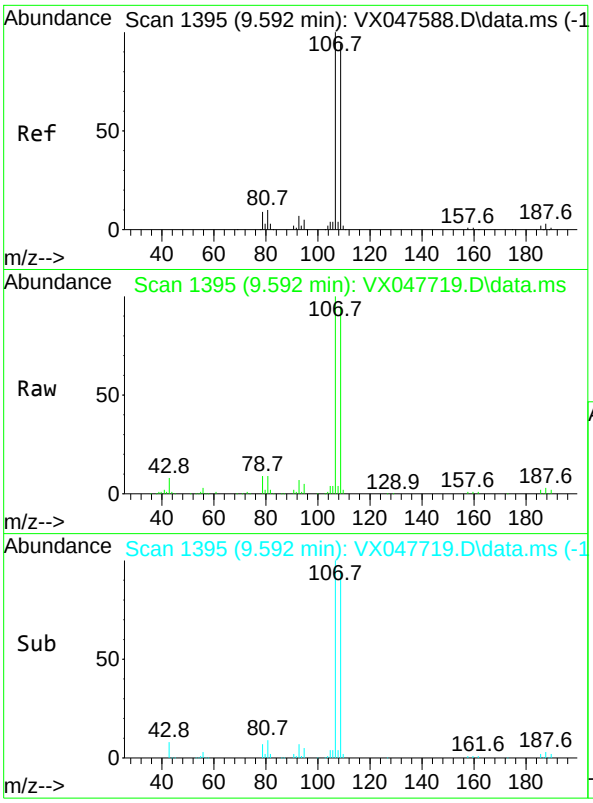


#60
Dibromochloromethane
Concen: 56.997 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:129 Resp: 123071

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.4	115.2

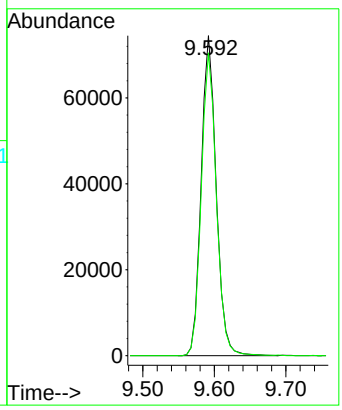




#61
1,2-Dibromoethane
Concen: 56.870 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:107 Resp: 10854

Ion	Ratio	Lower	Upper
107	100		
109	95.2	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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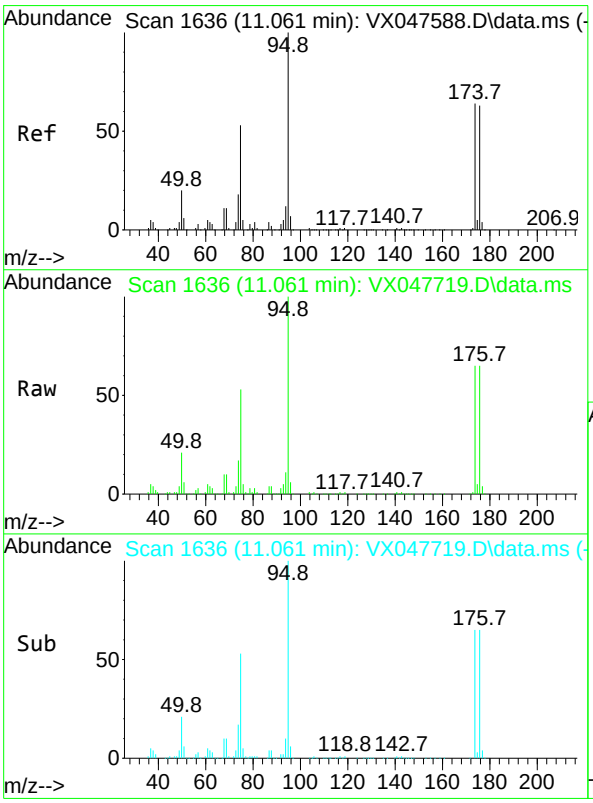
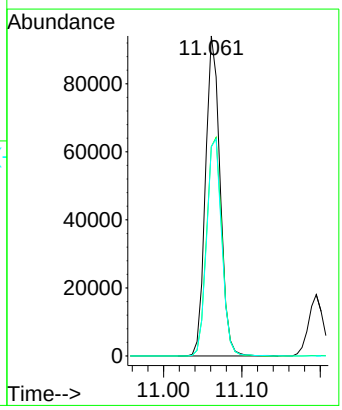
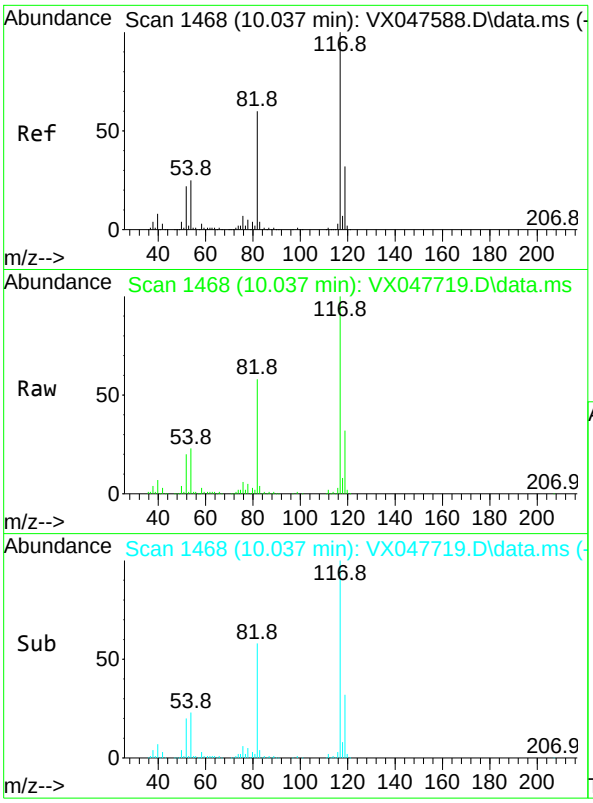


#62
4-Bromofluorobenzene
Concen: 52.073 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 95 Resp: 121543

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	141.6
176	70.0	0.0	138.4

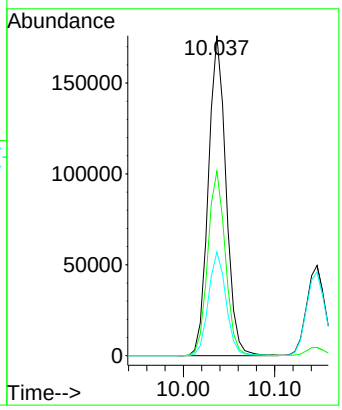




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:117 Resp: 23570

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	32.4	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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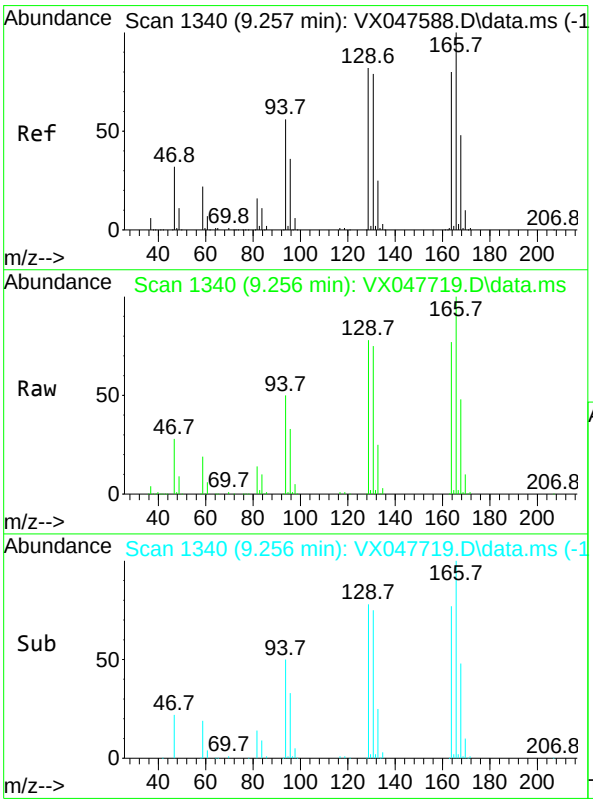
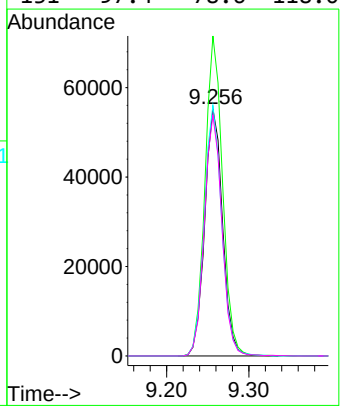
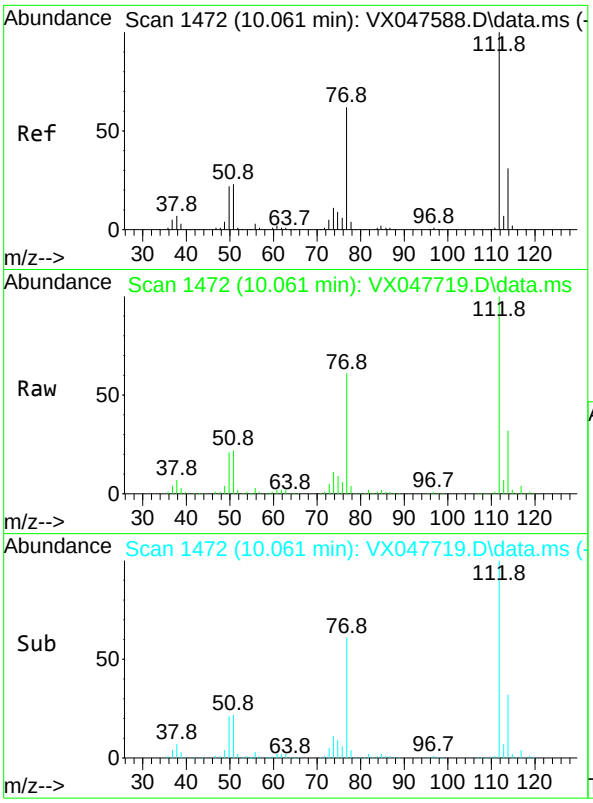


#64
Tetrachloroethene
Concen: 54.167 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:164 Resp: 83230

Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.2	150.2
129	101.4	81.8	122.6
131	97.4	78.6	118.0

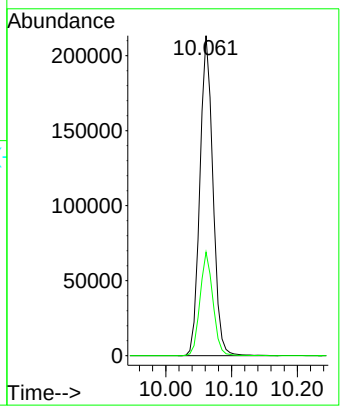




#65
Chlorobenzene
Concen: 54.848 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:112 Resp: 29369

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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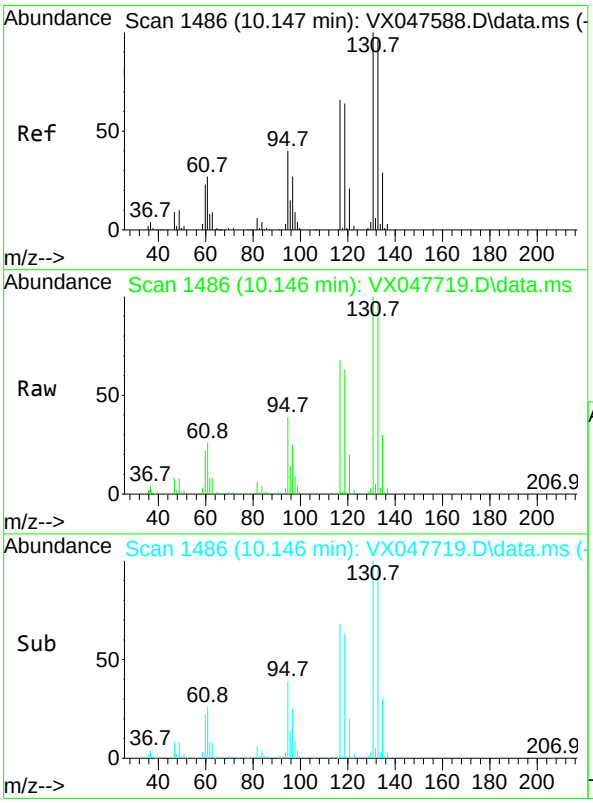
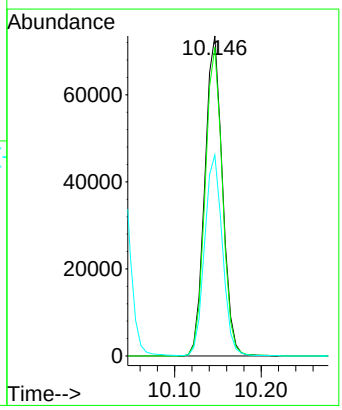
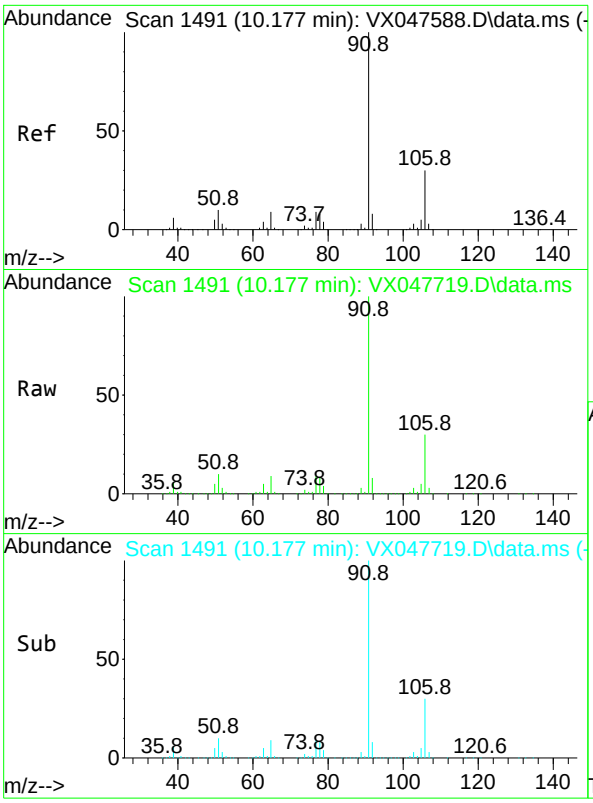


#66
1,1,1,2-Tetrachloroethane
Concen: 56.149 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:131 Resp: 103750

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	142.0
119	63.7	32.0	96.0

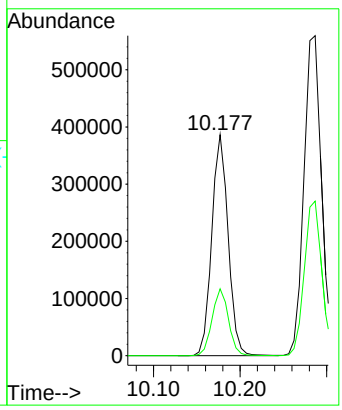




#67
Ethyl Benzene
Concen: 54.859 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 50685

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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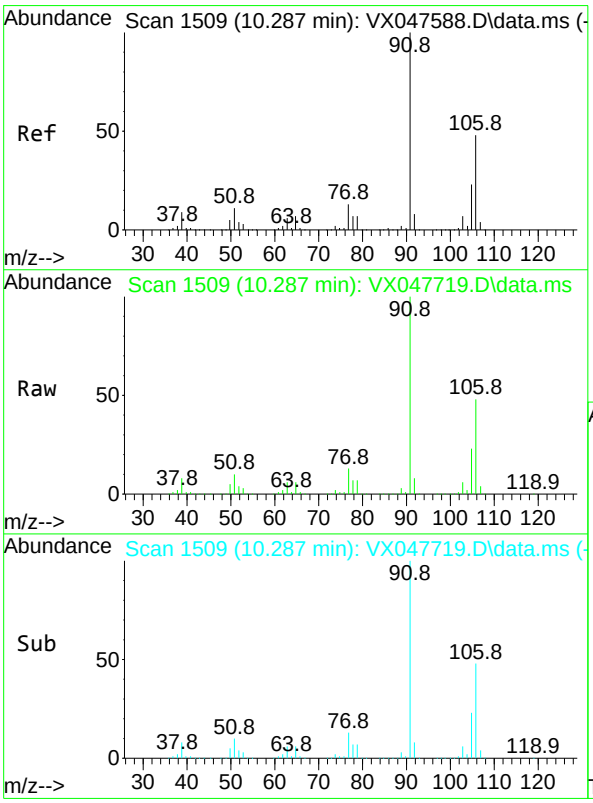
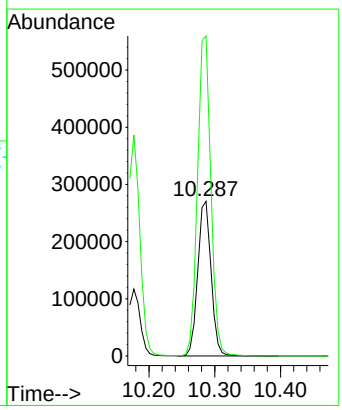
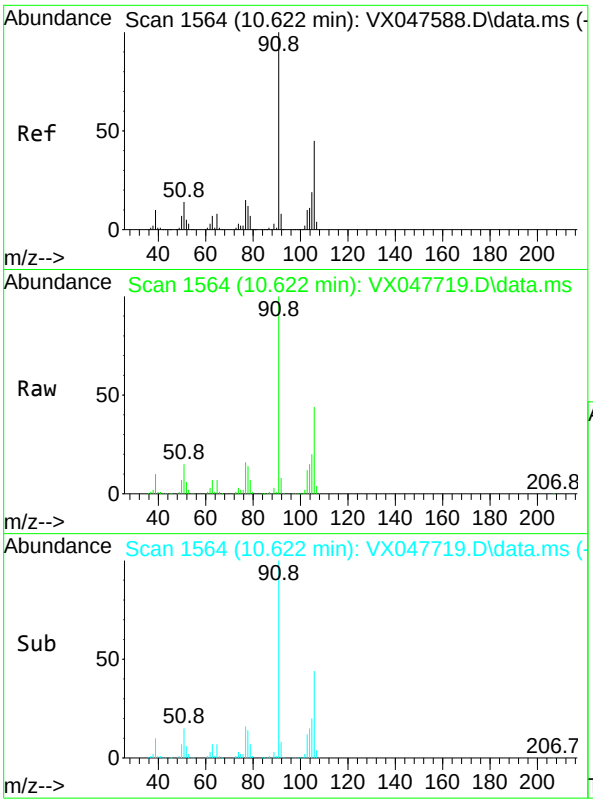


#68
m/p-Xylenes
Concen: 110.636 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:106 Resp: 380464

Ion	Ratio	Lower	Upper
106	100		
91	208.3	167.8	251.8

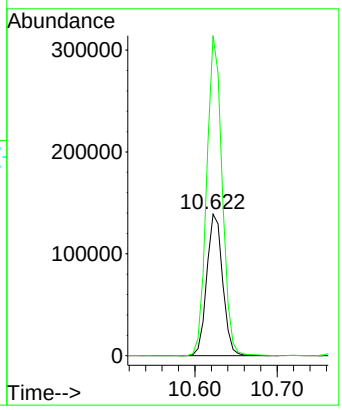




#69
o-Xylene
Concen: 55.967 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:106 Resp: 18615

Ion	Ratio	Lower	Upper
106	100		
91	220.1	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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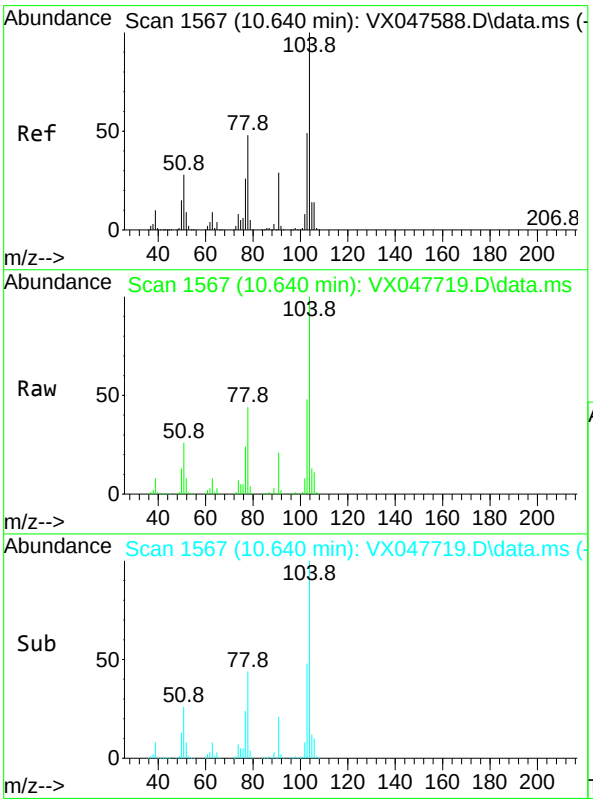
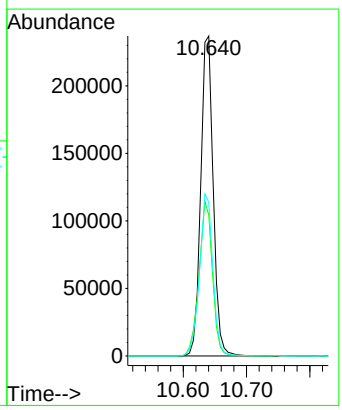
Supervised By :Mahesh Dadoda 09/26/2025

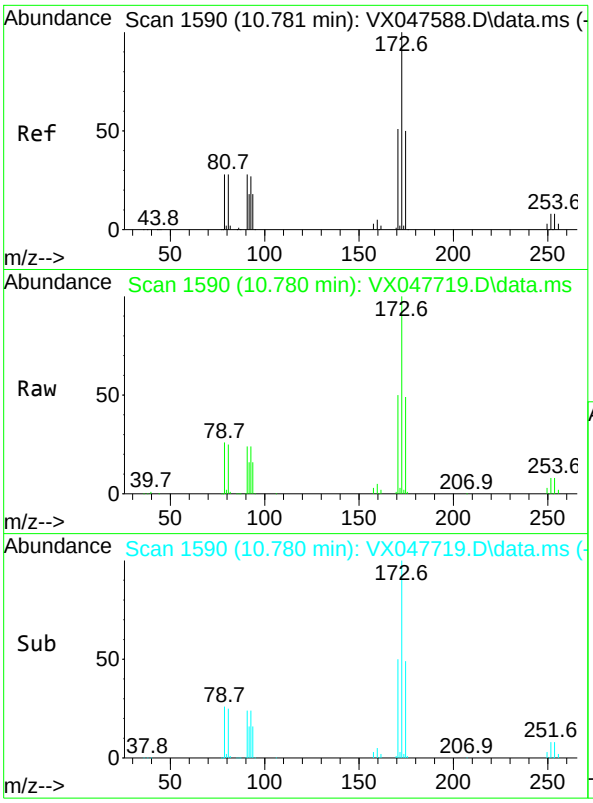


#70
Styrene
Concen: 55.888 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:104 Resp: 325724

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.1	64.7
103	54.2	43.1	64.7

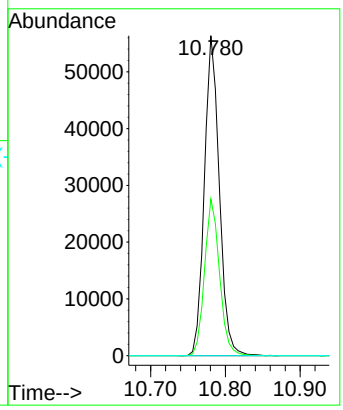




#71
Bromoform
Concen: 56.699 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:173 Resp: 7822

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.9	74.6
254	0.0	0.1	0.1



Instrument :
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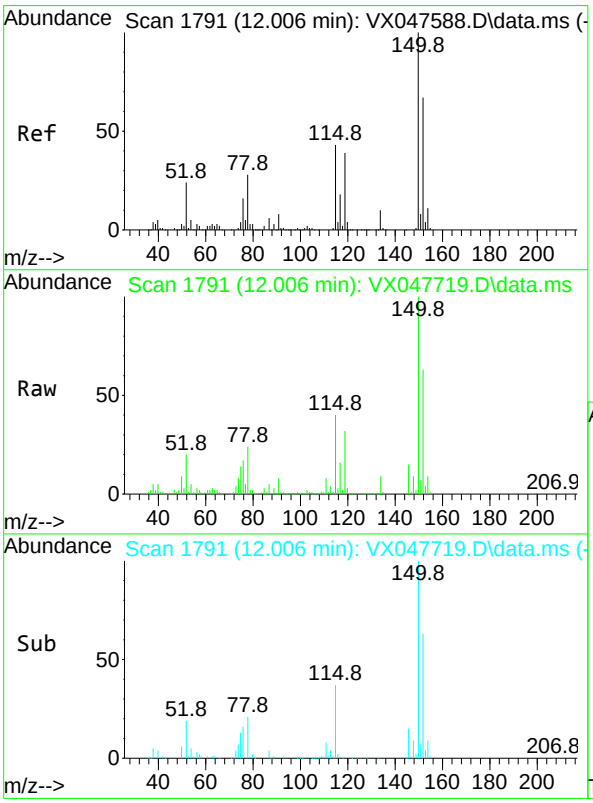
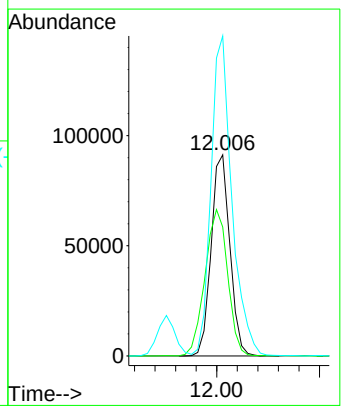
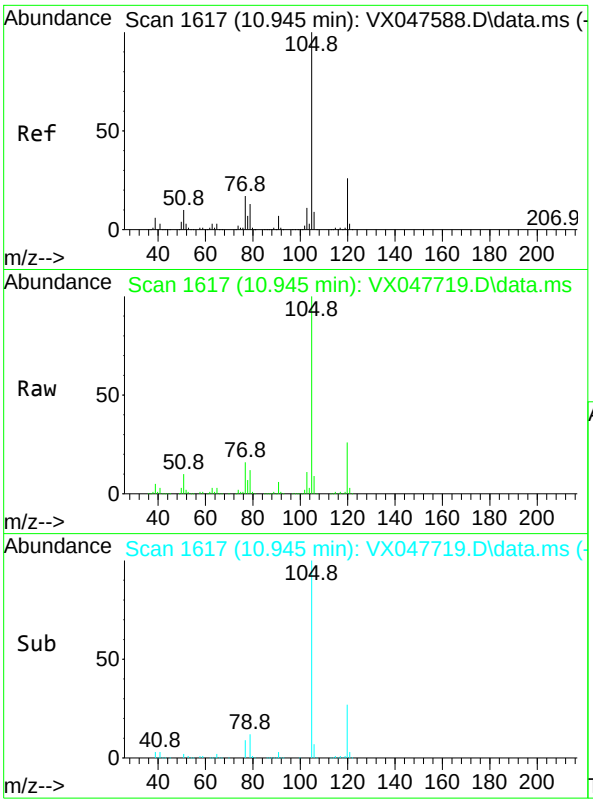


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:152 Resp: 115061

Ion	Ratio	Lower	Upper
152	100		
115	88.5	44.9	134.5
150	177.7	0.0	352.0

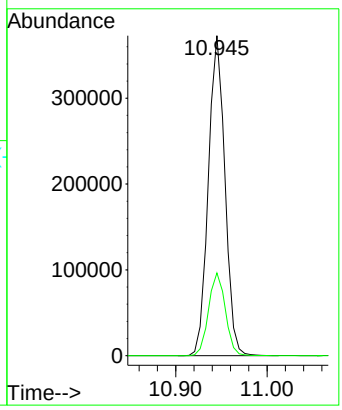




#73
Isopropylbenzene
Concen: 53.558 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 46850

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4



Instrument :
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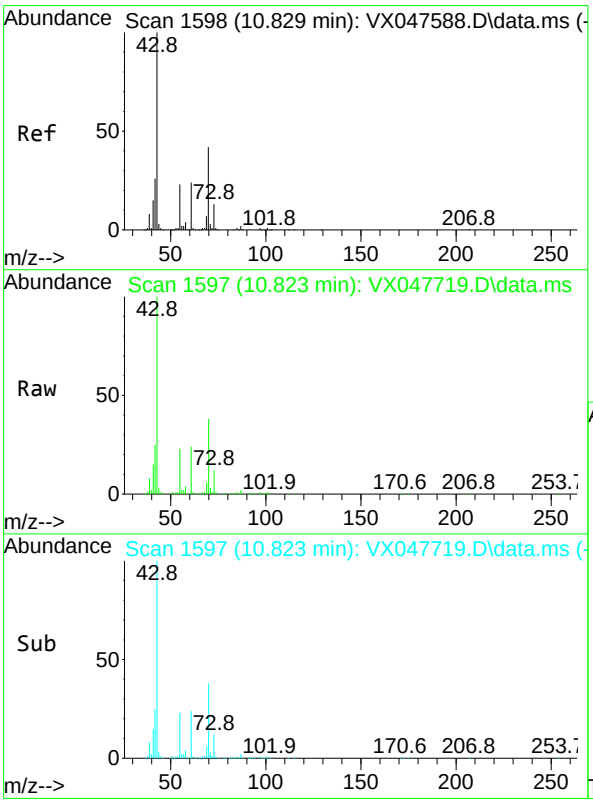
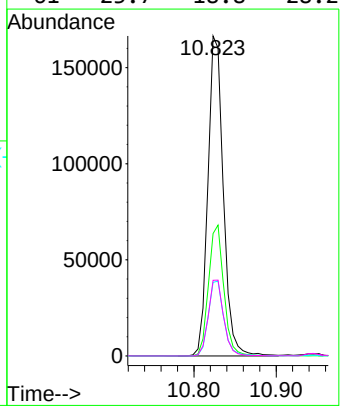
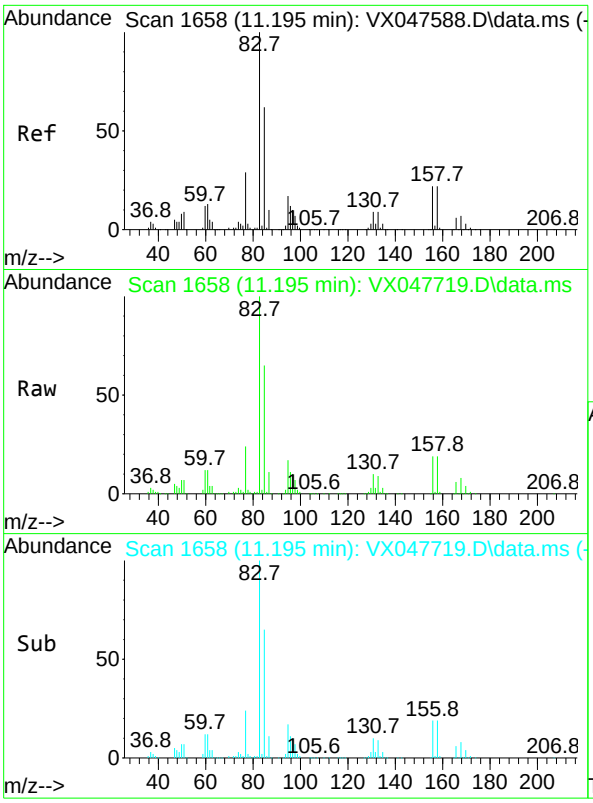


#74
N-amyl acetate
Concen: 54.388 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 216957

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	23.6	18.9	28.3
61	23.7	18.8	28.2

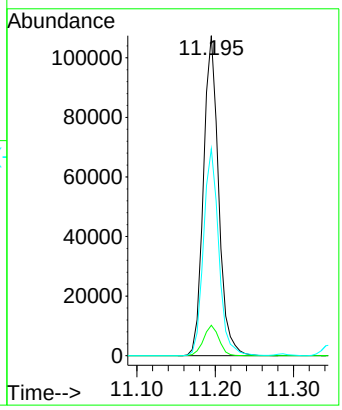




#75
1,1,2,2-Tetrachloroethane
Concen: 54.463 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 14414

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	65.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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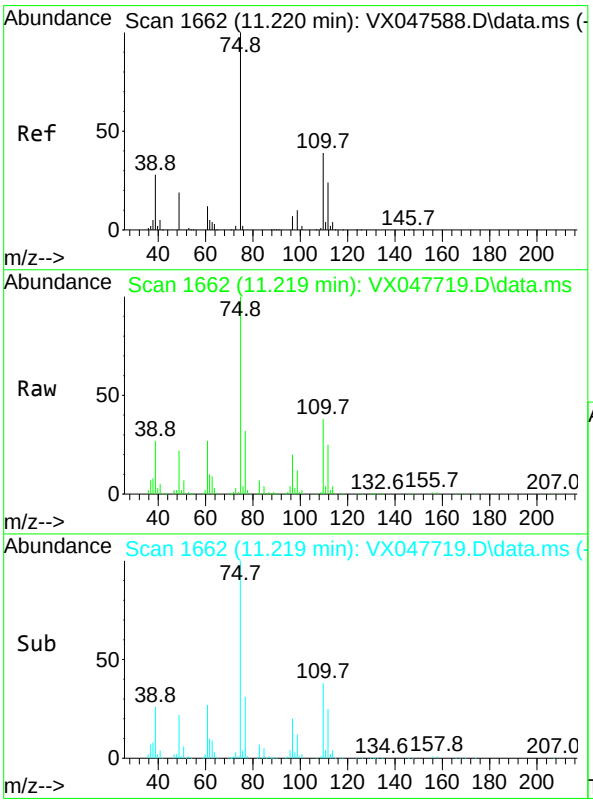
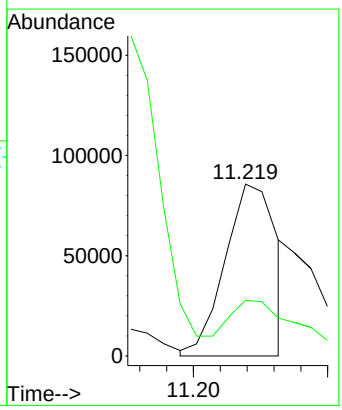
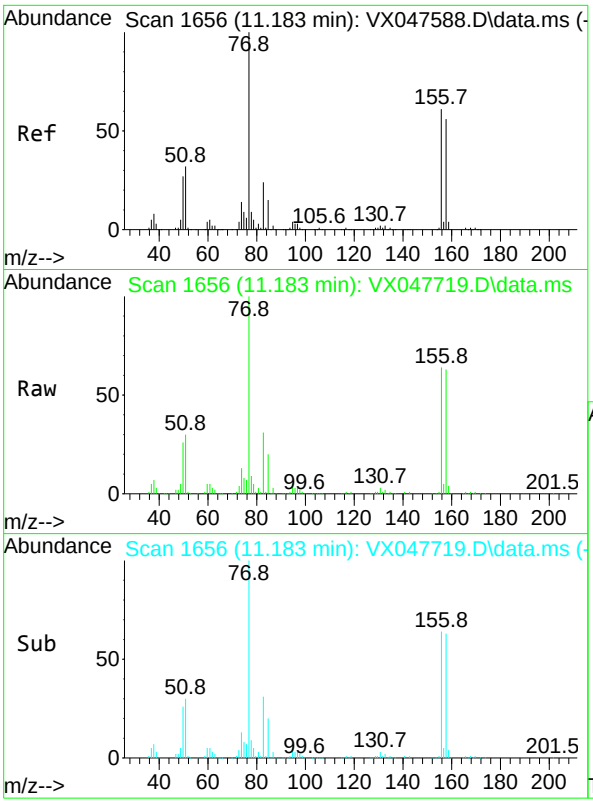


#76
1,2,3-Trichloropropane
Concen: 48.886 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 113886

Ion	Ratio	Lower	Upper
75	100		
77	43.5	18.8	56.4

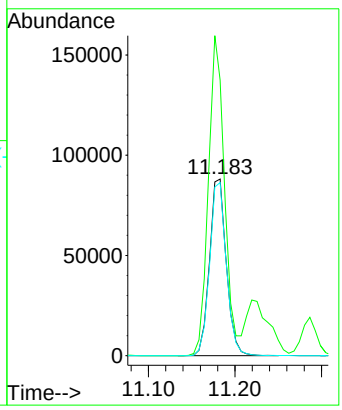




#77
Bromobenzene
Concen: 54.994 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:156 Resp: 11848

Ion	Ratio	Lower	Upper
156	100		
77	171.8	89.7	269.1
158	97.5	47.9	143.6



Instrument :
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ClientSampleId :
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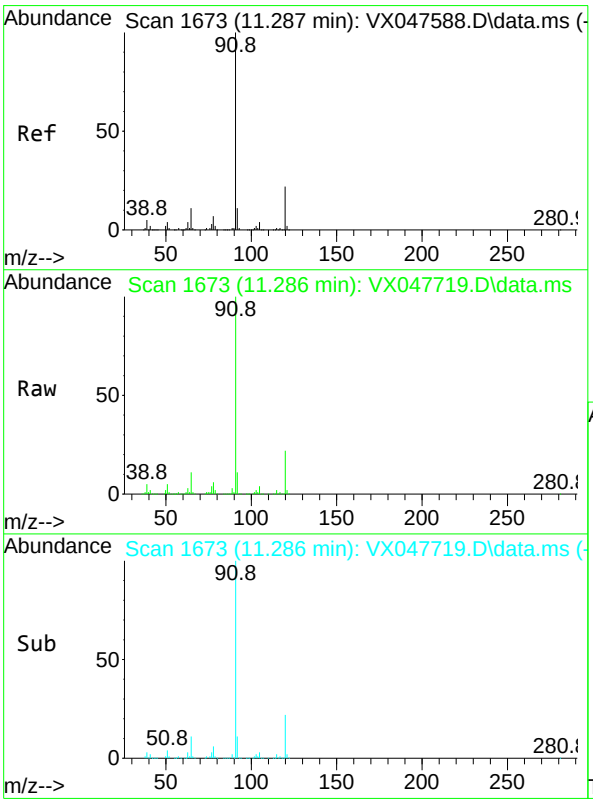
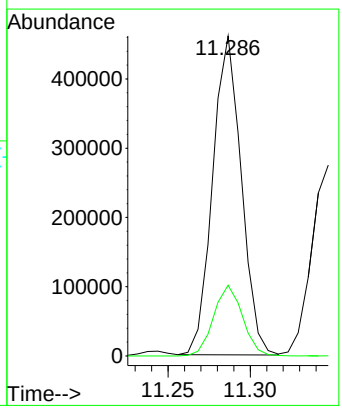
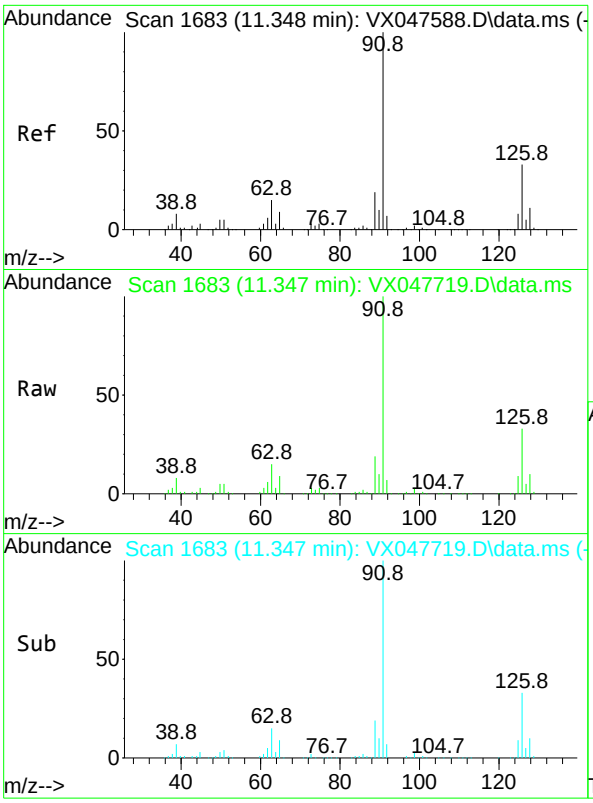


#78
n-propylbenzene
Concen: 53.923 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 557613

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1

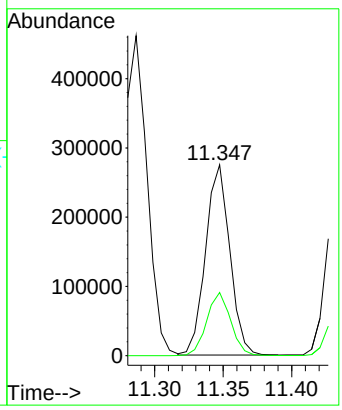




#79
2-Chlorotoluene
Concen: 53.352 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 33790

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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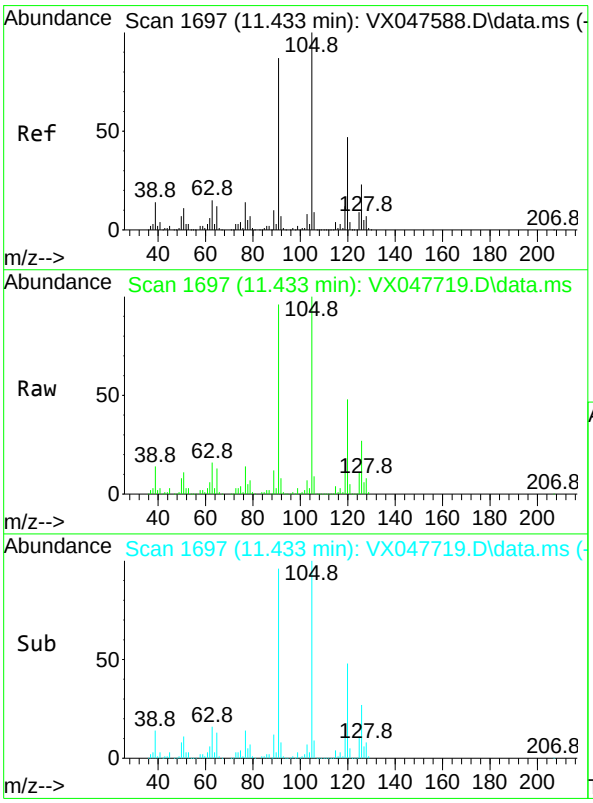
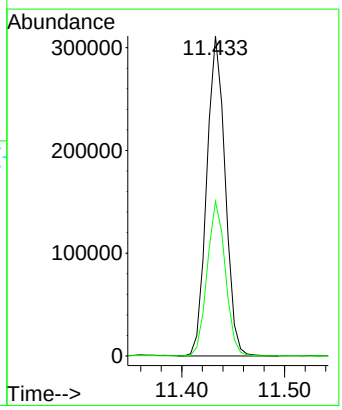
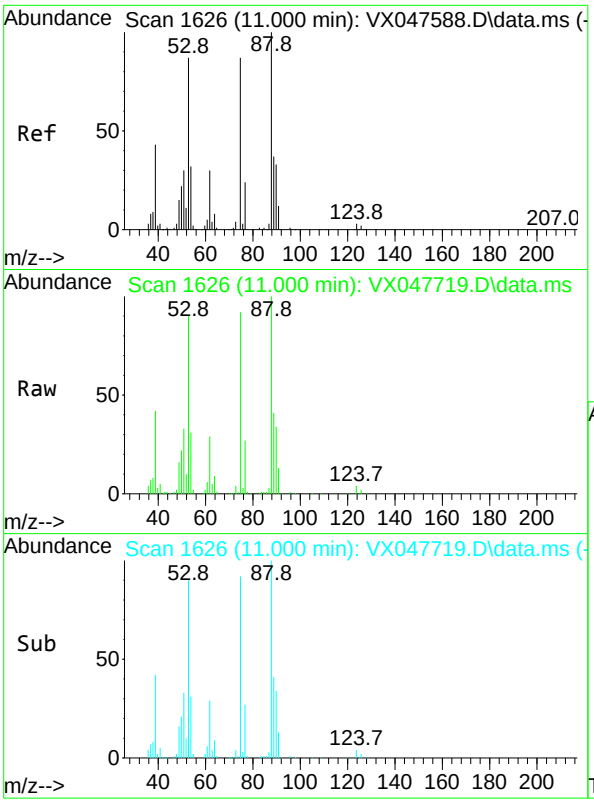


#80
1,3,5-Trimethylbenzene
Concen: 53.867 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 387138

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.6	70.8

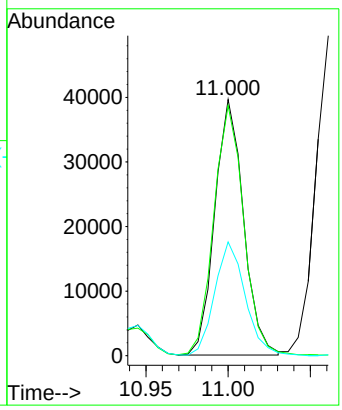




#81
trans-1,4-Dichloro-2-butene
Concen: 52.569 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 4802

Ion	Ratio	Lower	Upper
75	100		
53	101.5	83.4	125.2
89	47.5	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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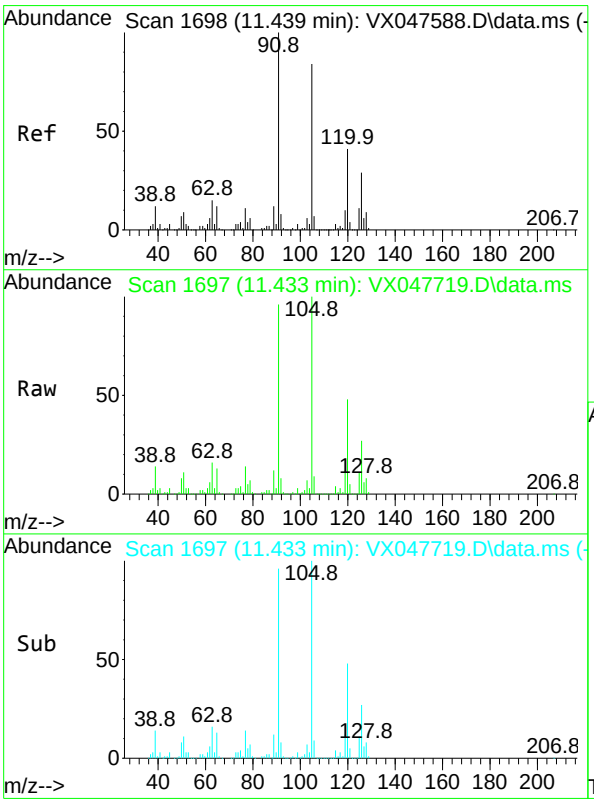
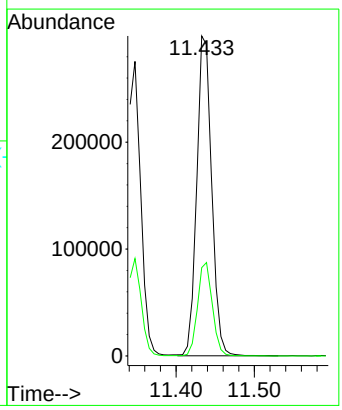
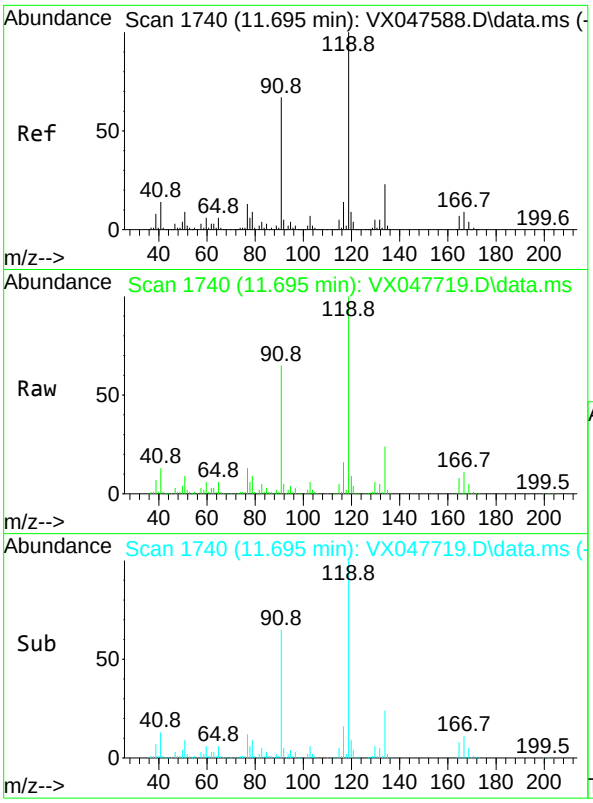


#82
4-Chlorotoluene
Concen: 53.035 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 396717

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6

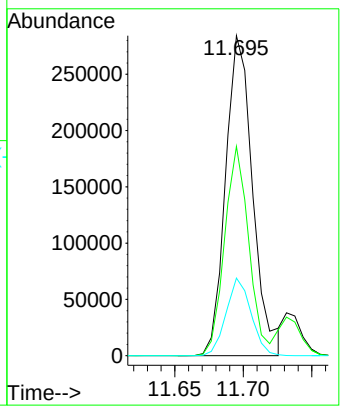




#83
tert-Butylbenzene
Concen: 53.095 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:119 Resp: 39063

Ion	Ratio	Lower	Upper
119	100		
91	58.5	29.6	88.8
134	22.4	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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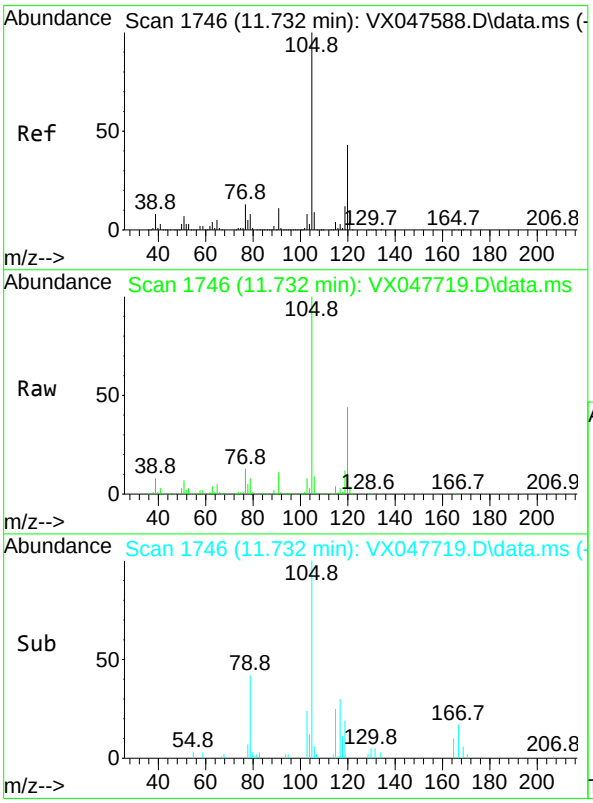
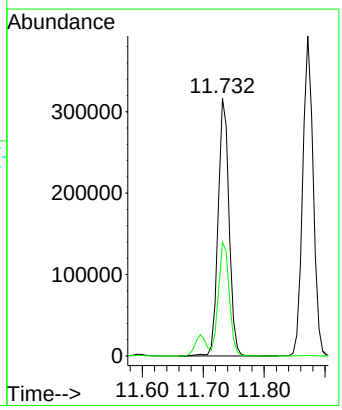
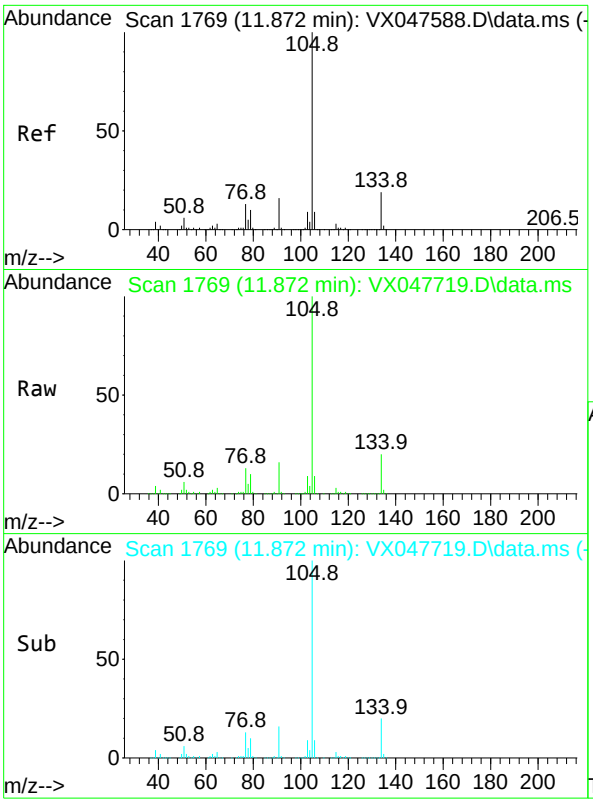


#84
1,2,4-Trimethylbenzene
Concen: 54.142 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 394502

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1

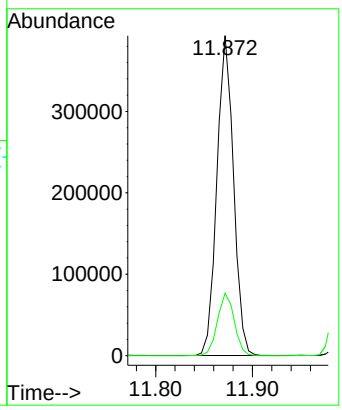




#85
sec-Butylbenzene
Concen: 53.598 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 46838

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
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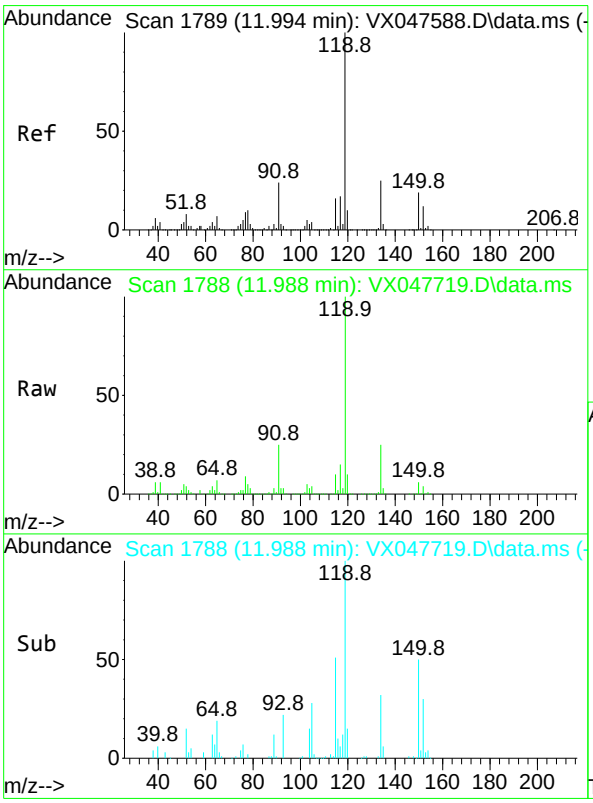
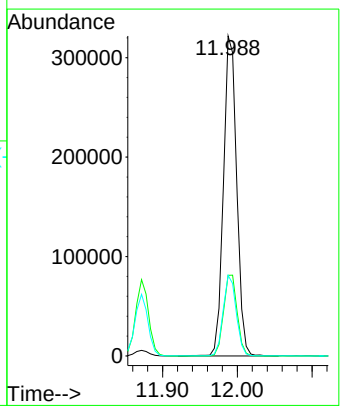
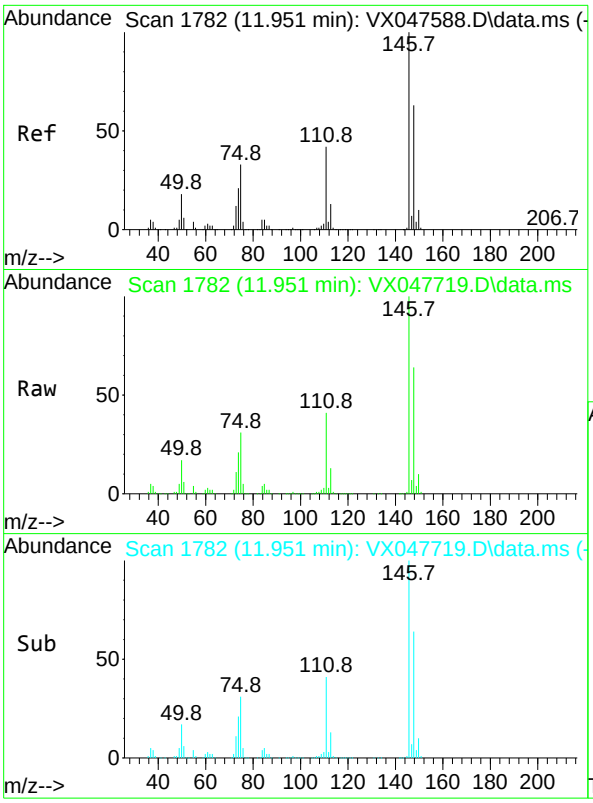


#86
p-Isopropyltoluene
Concen: 53.461 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:119 Resp: 395524

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	24.8	12.6	37.6

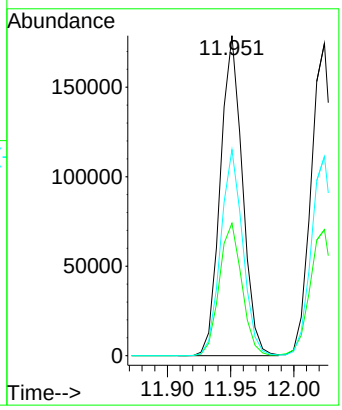




#87
1,3-Dichlorobenzene
Concen: 54.263 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:146 Resp: 21715

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	64.0	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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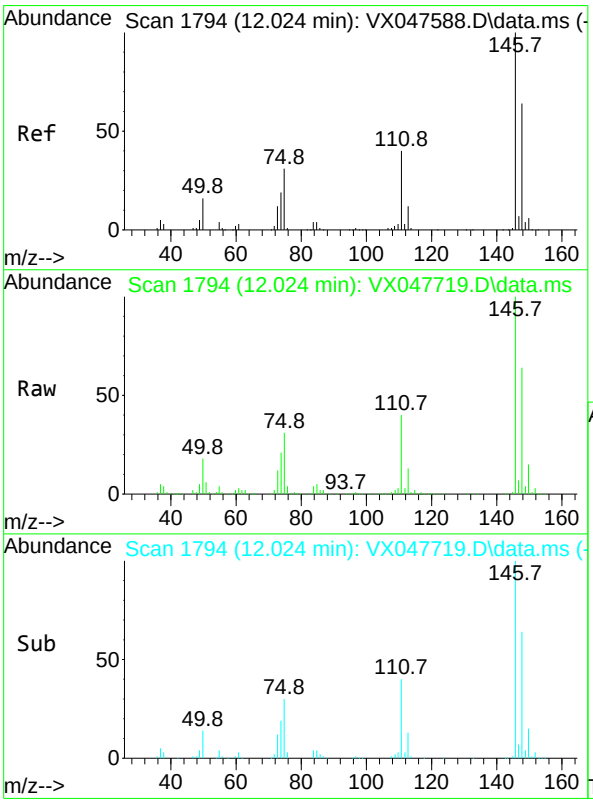
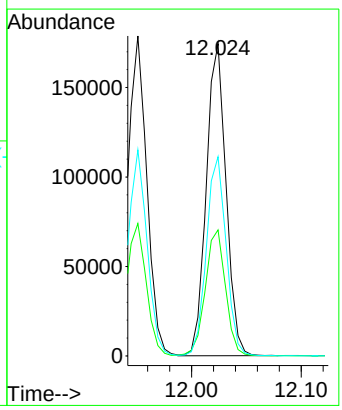
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

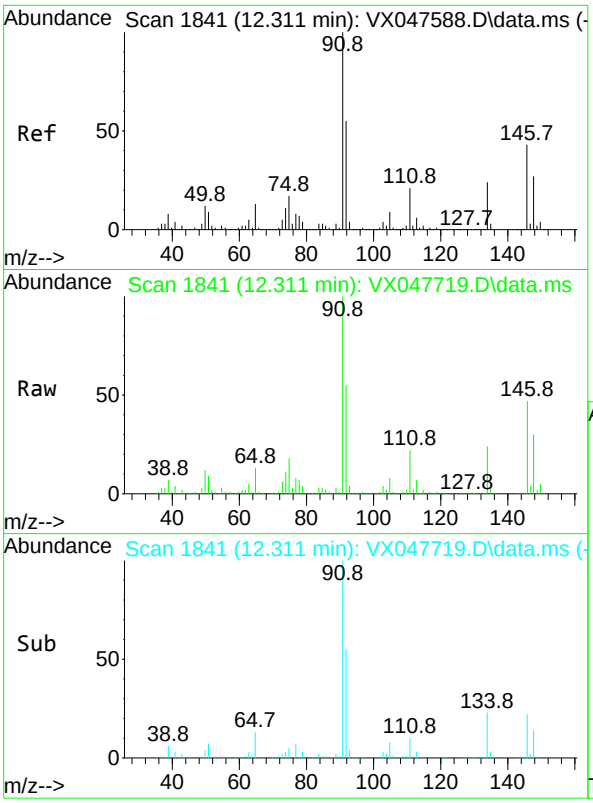


#88
1,4-Dichlorobenzene
Concen: 53.031 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:146 Resp: 217807

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.8	62.4
148	64.0	31.7	95.1

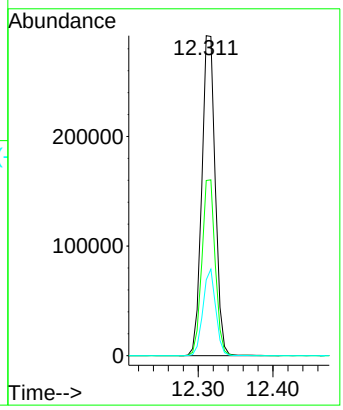




#89
n-Butylbenzene
Concen: 53.292 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 36481

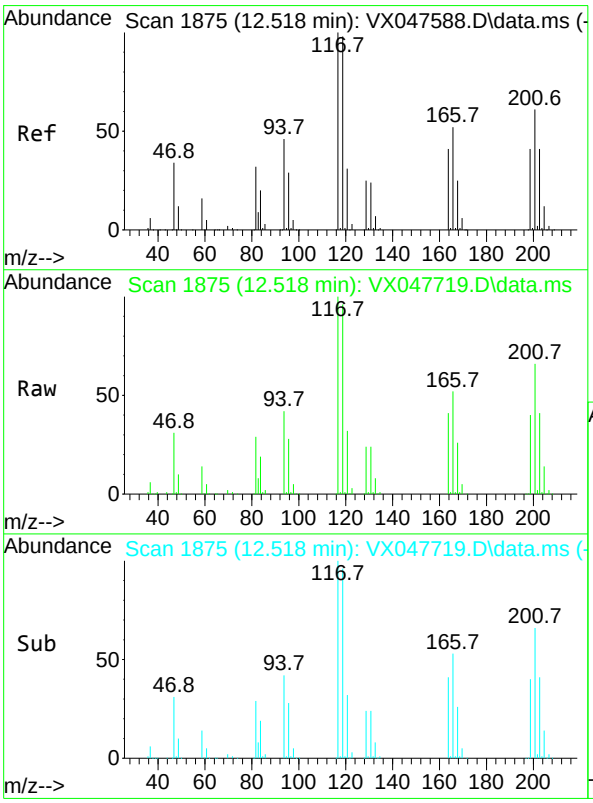
Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.7	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

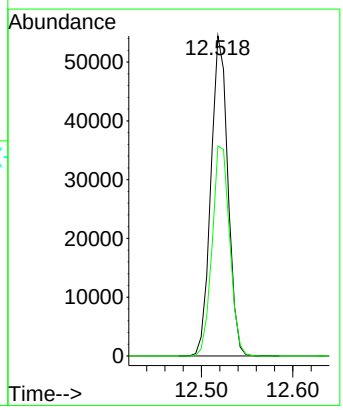
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

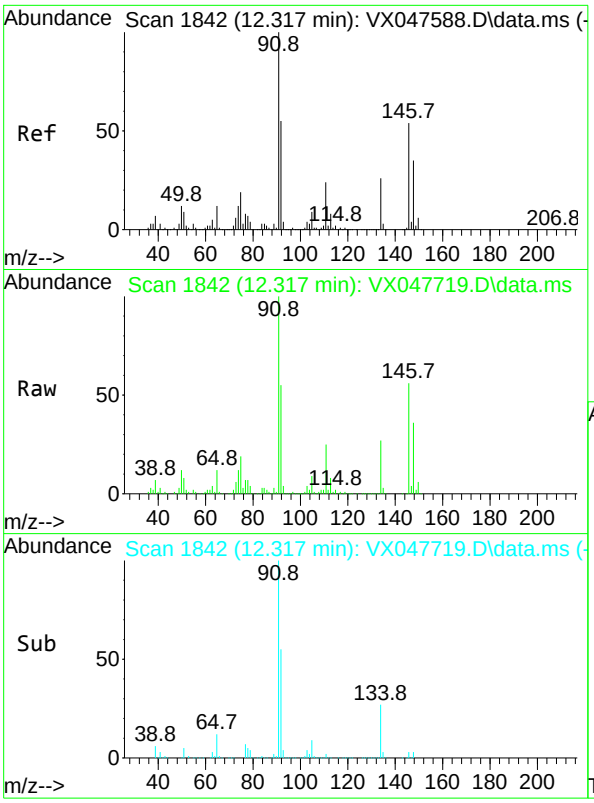


#90
Hexachloroethane
Concen: 53.956 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:117 Resp: 70085

Ion	Ratio	Lower	Upper
117	100		
201	67.8	34.2	102.5

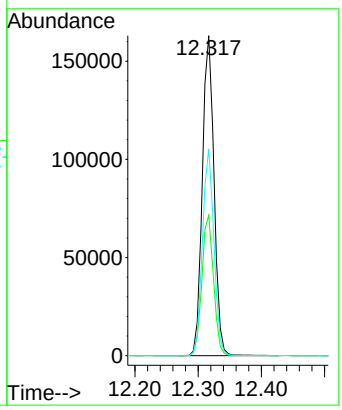




#91
1,2-Dichlorobenzene
Concen: 55.091 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

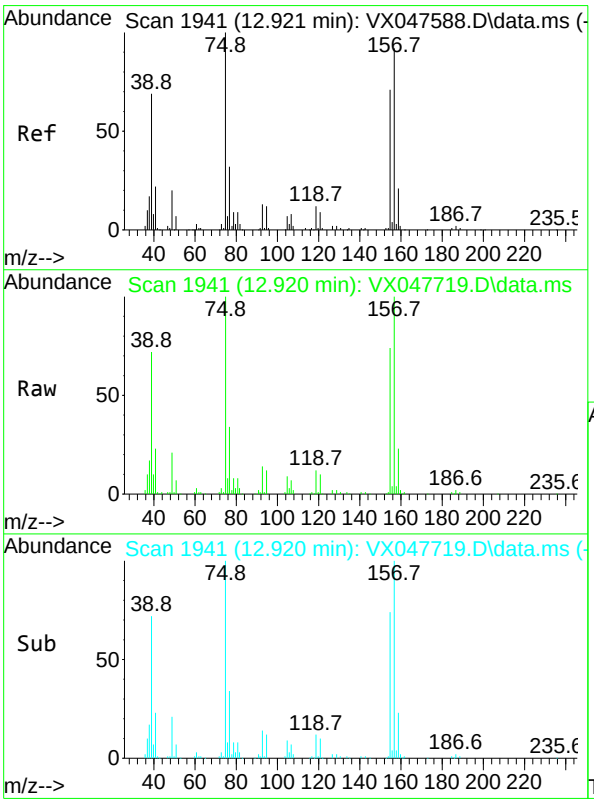
Tgt Ion:146 Resp: 21003

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.5	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

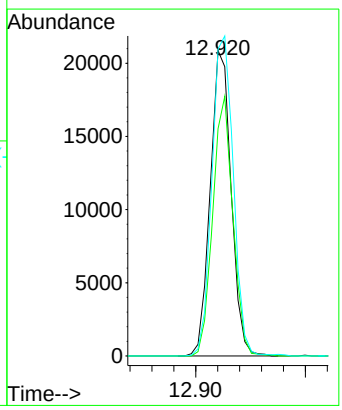
Manual Integrations
APPROVED
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

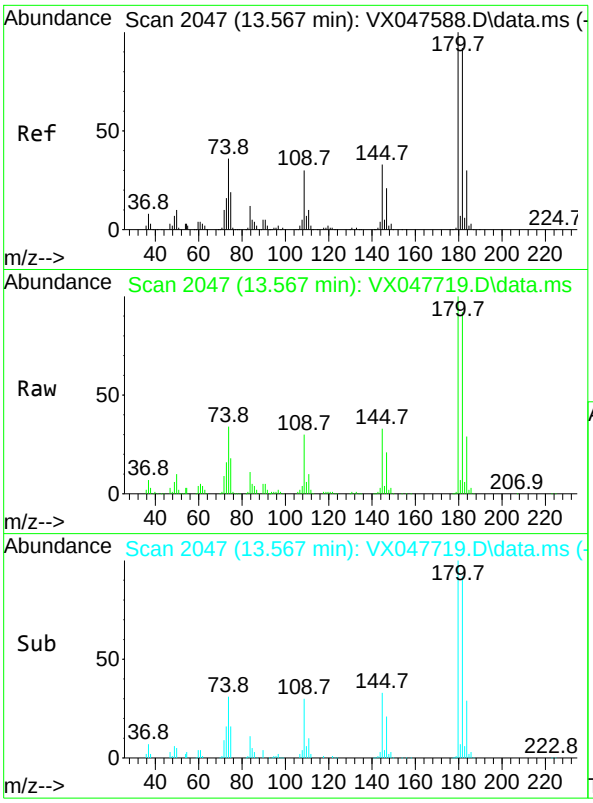


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.656 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 27679

Ion	Ratio	Lower	Upper
75	100		
155	81.6	37.7	113.1
157	107.5	49.8	149.4

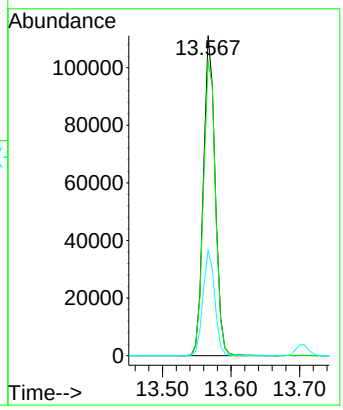




#93
1,2,4-Trichlorobenzene
Concen: 53.421 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:180 Resp: 13236

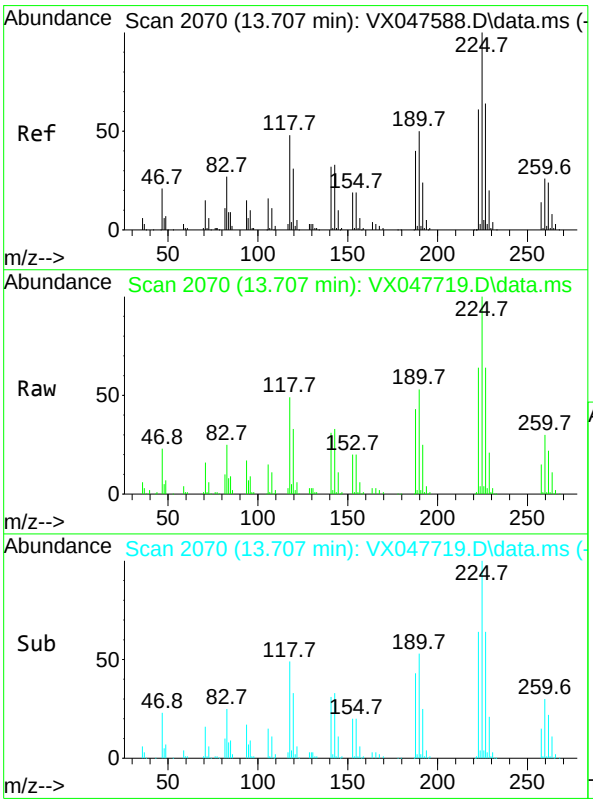
Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	33.1	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

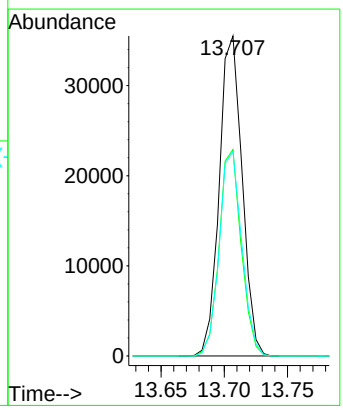
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

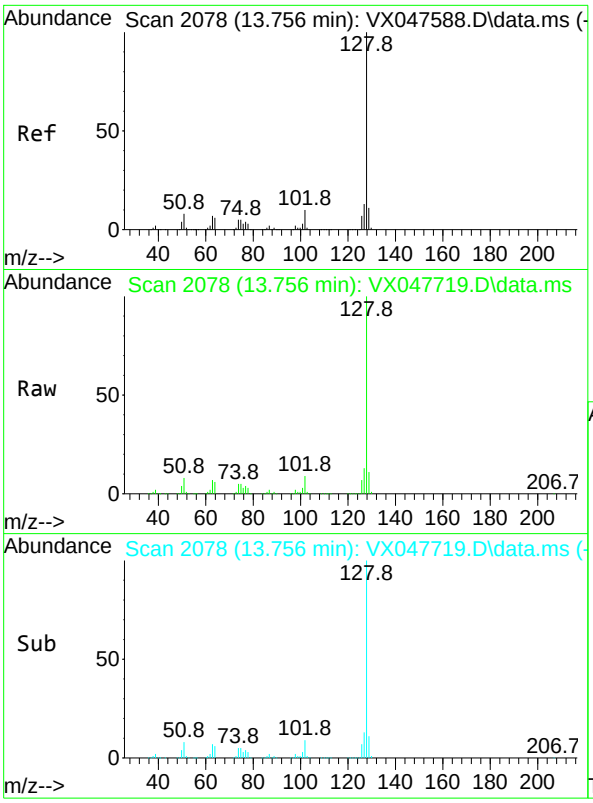


#94
Hexachlorobutadiene
Concen: 52.946 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:225 Resp: 44561

Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.7	95.1
227	63.2	32.0	96.0

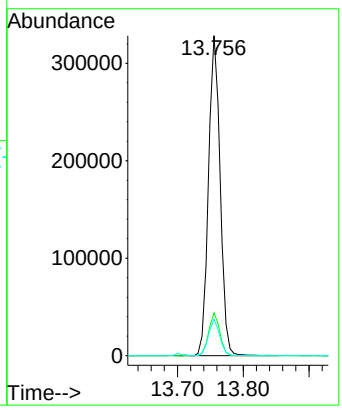




#95
Naphthalene
Concen: 53.744 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:128 Resp: 40550

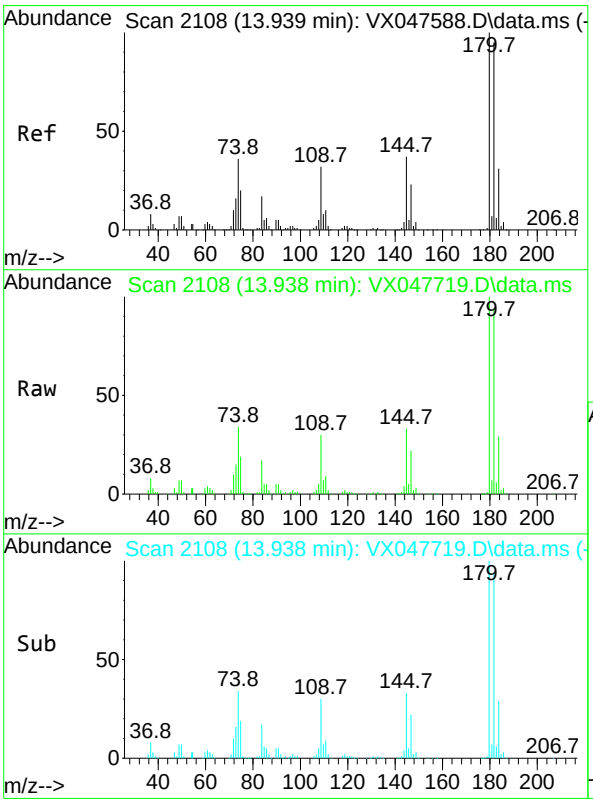
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

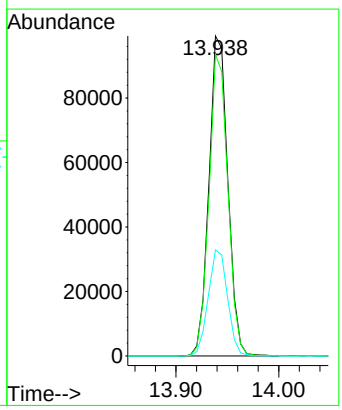
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 55.060 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:180 Resp: 126908

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.6	142.8
145	33.8	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	84	-0.01
2	T	Dichlorodifluoromethane	0.518	0.656	-26.6#	110	0.00
3	P	Chloromethane	0.680	0.808	-18.8	103	0.00
4	C	Vinyl Chloride	0.666	0.805	-20.9#	102	0.00
5	T	Bromomethane	0.422	0.530	-25.6#	105	0.00
6	T	Chloroethane	0.445	0.514	-15.5	98	0.00
7	T	Trichlorofluoromethane	0.989	1.104	-11.6	93	0.00
8	T	Diethyl Ether	0.405	0.463	-14.3	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.650	-12.5	94	0.00
10	T	Methyl Iodide	0.902	1.047	-16.1	97	0.00
11	T	Tert butyl alcohol	0.089	0.087	2.2	82	0.00
12	CM	1,1-Dichloroethene	0.594	0.677	-14.0#	94	0.00
13	T	Acrolein	0.082	0.092	-12.2	95	0.00
14	T	Allyl chloride	1.226	1.342	-9.5	93	0.00
15	T	Acrylonitrile	0.328	0.378	-15.2	91	0.00
16	T	Acetone	0.346	0.388	-12.1	103	0.00
17	T	Carbon Disulfide	1.626	1.899	-16.8	102	0.00
18	T	Methyl Acetate	0.770	0.873	-13.4	84	0.00
19	T	Methyl tert-butyl Ether	2.169	2.452	-13.0	92	0.00
20	T	Methylene Chloride	0.732	0.832	-13.7	96	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.741	-15.8	96	0.00
22	T	Diisopropyl ether	2.376	2.700	-13.6	92	0.00
23	T	Vinyl Acetate	1.901	2.204	-15.9	93	0.00
24	P	1,1-Dichloroethane	1.263	1.428	-13.1	93	0.00
25	T	2-Butanone	0.432	0.477	-10.4	91	0.00
26	T	2,2-Dichloropropane	1.050	1.149	-9.4	90	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.903	-15.3	94	-0.01
28	T	Bromochloromethane	0.551	0.612	-11.1	89	-0.01
29	T	Tetrahydrofuran	0.260	0.285	-9.6	87	0.00
30	C	Chloroform	1.276	1.444	-13.2#	92	0.00
31	T	Cyclohexane	1.052	1.142	-8.6	93	0.00
32	T	1,1,1-Trichloroethane	1.082	1.211	-11.9	90	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.816	-2.5	89	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
35	S	Dibromofluoromethane	0.335	0.352	-5.1	92	0.00
36	T	1,1-Dichloropropene	0.490	0.516	-5.3	91	0.00
37	T	Ethyl Acetate	0.525	0.559	-6.5	91	0.00
38	T	Carbon Tetrachloride	0.532	0.561	-5.5	90	0.00
39	T	Methylcyclohexane	0.556	0.599	-7.7	91	0.00
40	TM	Benzene	1.488	1.647	-10.7	93	0.00
41	T	Methacrylonitrile	0.271	0.298	-10.0	90	0.00
42	TM	1,2-Dichloroethane	0.566	0.606	-7.1	90	0.00
43	T	Isopropyl Acetate	0.860	0.931	-8.3	90	0.00
44	TM	Trichloroethene	0.360	0.403	-11.9	94	0.00
45	C	1,2-Dichloropropane	0.381	0.426	-11.8#	92	0.00
46	T	Dibromomethane	0.277	0.307	-10.8	92	0.00
47	T	Bromodichloromethane	0.572	0.634	-10.8	90	0.00
48	T	Methyl methacrylate	0.429	0.458	-6.8	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.005	-25.0	98	0.00
50	S	Toluene-d8	1.160	1.200	-3.4	90	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.525	-10.1	89	0.00
52	CM	Toluene	0.917	1.016	-10.8#	93	0.00
53	T	t-1,3-Dichloropropene	0.584	0.658	-12.7	92	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.704	-12.8	93	0.00
55	T	1,1,2-Trichloroethane	0.354	0.392	-10.7	92	0.00
56	T	Ethyl methacrylate	0.555	0.630	-13.5	91	0.00
57	T	1,3-Dichloropropane	0.607	0.689	-13.5	93	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.294	-29.5#	93	0.00
59	T	2-Hexanone	0.343	0.374	-9.0	90	0.00
60	T	Dibromochloromethane	0.407	0.464	-14.0	92	0.00
61	T	1,2-Dibromoethane	0.360	0.410	-13.9	93	0.00
62	S	4-Bromofluorobenzene	0.440	0.459	-4.3	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64	T	Tetrachloroethene	0.326	0.353	-8.3	94	0.00
65	PM	Chlorobenzene	1.136	1.246	-9.7	92	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.440	-12.2	93	0.00
67	C	Ethyl Benzene	1.960	2.150	-9.7#	92	0.00
68	T	m/p-Xylenes	0.729	0.807	-10.7	92	0.00
69	T	o-Xylene	0.706	0.790	-11.9	92	0.00
70	T	Styrene	1.236	1.382	-11.8	93	0.00
71	P	Bromoform	0.293	0.332	-13.3	93	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
73	T	Isopropylbenzene	3.801	4.072	-7.1	91	0.00
74	T	N-amyl acetate	1.733	1.886	-8.8	91	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.253	-9.0	92	0.00
76	T	1,2,3-Trichloropropane	1.012	0.990	2.2	79	0.00
77	T	Bromobenzene	0.936	1.030	-10.0	94	0.00
78	T	n-propylbenzene	4.494	4.846	-7.8	91	0.00
79	T	2-Chlorotoluene	2.752	2.937	-6.7	91	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.365	-7.7	91	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.417	-5.0	91	0.00
82	T	4-Chlorotoluene	3.251	3.448	-6.1	90	0.00
83	T	tert-Butylbenzene	3.197	3.395	-6.2	91	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.429	-8.3	92	0.00
85	T	sec-Butylbenzene	3.797	4.071	-7.2	91	0.00
86	T	p-Isopropyltoluene	3.215	3.438	-6.9	91	0.00
87	T	1,3-Dichlorobenzene	1.739	1.887	-8.5	94	0.00
88	T	1,4-Dichlorobenzene	1.785	1.893	-6.1	93	0.00
89	T	n-Butylbenzene	2.975	3.171	-6.6	91	0.00
90	T	Hexachloroethane	0.564	0.609	-8.0	92	0.00
91	T	1,2-Dichlorobenzene	1.657	1.825	-10.1	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.241	-3.4	85	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.150	-6.8	90	0.00
94	T	Hexachlorobutadiene	0.366	0.387	-5.7	91	0.00
95	T	Naphthalene	3.279	3.524	-7.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.103	-10.1	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	84	-0.01
2	T	Dichlorodifluoromethane	50.000	63.389	-26.8#	110	0.00
3	P	Chloromethane	50.000	59.371	-18.7	103	0.00
4	C	Vinyl Chloride	50.000	60.422	-20.8#	102	0.00
5	T	Bromomethane	50.000	62.771	-25.5#	105	0.00
6	T	Chloroethane	50.000	57.762	-15.5	98	0.00
7	T	Trichlorofluoromethane	50.000	55.813	-11.6	93	0.00
8	T	Diethyl Ether	50.000	57.259	-14.5	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	56.200	-12.4	94	0.00
10	T	Methyl Iodide	50.000	58.055	-16.1	97	0.00
11	T	Tert butyl alcohol	250.000	244.621	2.2	82	0.00
12	CM	1,1-Dichloroethene	50.000	57.012	-14.0#	94	0.00
13	T	Acrolein	250.000	282.952	-13.2	95	0.00
14	T	Allyl chloride	50.000	54.723	-9.4	93	0.00
15	T	Acrylonitrile	250.000	287.505	-15.0	91	0.00
16	T	Acetone	250.000	280.166	-12.1	103	0.00
17	T	Carbon Disulfide	50.000	58.393	-16.8	102	0.00
18	T	Methyl Acetate	50.000	56.673	-13.3	84	0.00
19	T	Methyl tert-butyl Ether	50.000	56.537	-13.1	92	0.00
20	T	Methylene Chloride	50.000	56.815	-13.6	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	57.928	-15.9	96	0.00
22	T	Diisopropyl ether	50.000	56.829	-13.7	92	0.00
23	T	Vinyl Acetate	250.000	289.816	-15.9	93	0.00
24	P	1,1-Dichloroethane	50.000	56.537	-13.1	93	0.00
25	T	2-Butanone	250.000	276.163	-10.5	91	0.00
26	T	2,2-Dichloropropane	50.000	54.744	-9.5	90	0.00
27	T	cis-1,2-Dichloroethene	50.000	57.629	-15.3	94	-0.01
28	T	Bromochloromethane	50.000	55.520	-11.0	89	-0.01
29	T	Tetrahydrofuran	250.000	274.666	-9.9	87	0.00
30	C	Chloroform	50.000	56.566	-13.1#	92	0.00
31	T	Cyclohexane	50.000	54.312	-8.6	93	0.00
32	T	1,1,1-Trichloroethane	50.000	55.958	-11.9	90	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.280	-2.6	89	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	86	0.00
35	S	Dibromofluoromethane	50.000	52.461	-4.9	92	0.00
36	T	1,1-Dichloropropene	50.000	52.619	-5.2	91	0.00
37	T	Ethyl Acetate	50.000	53.244	-6.5	91	0.00
38	T	Carbon Tetrachloride	50.000	52.659	-5.3	90	0.00
39	T	Methylcyclohexane	50.000	53.805	-7.6	91	0.00
40	TM	Benzene	50.000	55.328	-10.7	93	0.00
41	T	Methacrylonitrile	50.000	55.020	-10.0	90	0.00
42	TM	1,2-Dichloroethane	50.000	53.472	-6.9	90	0.00
43	T	Isopropyl Acetate	50.000	54.094	-8.2	90	0.00
44	TM	Trichloroethene	50.000	55.974	-11.9	94	0.00
45	C	1,2-Dichloropropane	50.000	55.852	-11.7#	92	0.00
46	T	Dibromomethane	50.000	55.264	-10.5	92	0.00
47	T	Bromodichloromethane	50.000	55.419	-10.8	90	0.00
48	T	Methyl methacrylate	50.000	53.434	-6.9	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1254.001	-25.4#	98	0.00
50	S	Toluene-d8	50.000	51.720	-3.4	90	0.00
51	T	4-Methyl-2-Pentanone	250.000	275.127	-10.1	89	0.00
52	CM	Toluene	50.000	55.411	-10.8#	93	0.00
53	T	t-1,3-Dichloropropene	50.000	56.347	-12.7	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.434	-12.9	93	0.00
55	T	1,1,2-Trichloroethane	50.000	55.502	-11.0	92	0.00
56	T	Ethyl methacrylate	50.000	56.751	-13.5	91	0.00
57	T	1,3-Dichloropropane	50.000	56.707	-13.4	93	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	274.956	-10.0	93	0.00
59	T	2-Hexanone	250.000	272.845	-9.1	90	0.00
60	T	Dibromochloromethane	50.000	56.997	-14.0	92	0.00
61	T	1,2-Dibromoethane	50.000	56.870	-13.7	93	0.00
62	S	4-Bromofluorobenzene	50.000	52.073	-4.1	93	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64	T	Tetrachloroethene	50.000	54.167	-8.3	94	0.00
65	PM	Chlorobenzene	50.000	54.848	-9.7	92	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.149	-12.3	93	0.00
67	C	Ethyl Benzene	50.000	54.859	-9.7#	92	0.00
68	T	m/p-Xylenes	100.000	110.636	-10.6	92	0.00
69	T	o-Xylene	50.000	55.967	-11.9	92	0.00
70	T	Styrene	50.000	55.888	-11.8	93	0.00
71	P	Bromoform	50.000	56.699	-13.4	93	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	90	0.00
73	T	Isopropylbenzene	50.000	53.558	-7.1	91	0.00
74	T	N-amyl acetate	50.000	54.388	-8.8	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.463	-8.9	92	0.00
76	T	1,2,3-Trichloropropane	50.000	48.886	2.2	79	0.00
77	T	Bromobenzene	50.000	54.994	-10.0	94	0.00
78	T	n-propylbenzene	50.000	53.923	-7.8	91	0.00
79	T	2-Chlorotoluene	50.000	53.352	-6.7	91	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.867	-7.7	91	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.569	-5.1	91	0.00
82	T	4-Chlorotoluene	50.000	53.035	-6.1	90	0.00
83	T	tert-Butylbenzene	50.000	53.095	-6.2	91	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.142	-8.3	92	0.00
85	T	sec-Butylbenzene	50.000	53.598	-7.2	91	0.00
86	T	p-Isopropyltoluene	50.000	53.461	-6.9	91	0.00
87	T	1,3-Dichlorobenzene	50.000	54.263	-8.5	94	0.00
88	T	1,4-Dichlorobenzene	50.000	53.031	-6.1	93	0.00
89	T	n-Butylbenzene	50.000	53.292	-6.6	91	0.00
90	T	Hexachloroethane	50.000	53.956	-7.9	92	0.00
91	T	1,2-Dichlorobenzene	50.000	55.091	-10.2	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.656	-3.3	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.421	-6.8	90	0.00
94	T	Hexachlorobutadiene	50.000	52.946	-5.9	91	0.00
95	T	Naphthalene	50.000	53.744	-7.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	55.060	-10.1	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: AECO15

Lab Code: ACE | SDG No.: Q3097

Instrument ID: MSVOA_X | Calibration Date/Time: 09/23/2025 19:00

Lab File ID: VX047744.D | Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.632		22.01	50
Chloromethane	0.680	0.784	0.1	15.29	50
Vinyl Chloride	0.666	0.776		16.52	50
Bromomethane	0.422	0.496		17.54	50
Chloroethane	0.445	0.505		13.48	50
Trichlorofluoromethane	0.989	1.097		10.92	50
1,1,2-Trichlorotrifluoroethane	0.578	0.639		10.55	50
1,1-Dichloroethene	0.594	0.657		10.61	50
Acetone	0.346	0.295		-14.74	50
Carbon Disulfide	1.626	1.828		12.42	50
Methyl tert-butyl Ether	2.169	2.338		7.79	50
Methyl Acetate	0.770	0.876		13.77	50
Methylene Chloride	0.732	0.797		8.88	50
trans-1,2-Dichloroethene	0.640	0.715		11.72	50
1,1-Dichloroethane	1.263	1.376	0.1	8.95	50
Cyclohexane	1.052	1.100		4.56	50
2-Butanone	0.432	0.442		2.32	50
Carbon Tetrachloride	0.532	0.522		-1.88	50
cis-1,2-Dichloroethene	0.783	0.862		10.09	50
Bromochloromethane	0.551	0.579		5.08	50
Chloroform	1.276	1.391		9.01	50
1,1,1-Trichloroethane	1.082	1.150		6.28	50
Methylcyclohexane	0.556	0.569		2.34	50
Benzene	1.488	1.586		6.59	50
1,2-Dichloroethane	0.566	0.582		2.83	50
Trichloroethene	0.360	0.386		7.22	50
1,2-Dichloropropane	0.381	0.410		7.61	50
Bromodichloromethane	0.572	0.607		6.12	50
4-Methyl-2-Pentanone	0.477	0.521		9.22	50
Toluene	0.917	0.974		6.22	50
t-1,3-Dichloropropene	0.584	0.590		1.03	50
cis-1,3-Dichloropropene	0.624	0.642		2.88	50
1,1,2-Trichloroethane	0.354	0.387		9.32	50
2-Hexanone	0.343	0.358		4.37	50
Dibromochloromethane	0.407	0.441		8.35	50
1,2-Dibromoethane	0.360	0.396		10	50
Tetrachloroethene	0.326	0.337		3.37	50
Chlorobenzene	1.136	1.185	0.3	4.31	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/23/2025 19:00
Lab File ID:	VX047744.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	2.020		3.06	50
m/p-Xylenes	0.729	0.755		3.57	50
o-Xylene	0.706	0.741		4.96	50
Styrene	1.236	1.305		5.58	50
Bromoform	0.293	0.305	0.1	4.1	50
Isopropylbenzene	3.801	3.780		-0.55	50
1,1,2,2-Tetrachloroethane	1.150	1.194	0.3	3.83	50
1,3-Dichlorobenzene	1.739	1.714		-1.44	50
1,4-Dichlorobenzene	1.785	1.729		-3.14	50
1,2-Dichlorobenzene	1.657	1.655		-0.12	50
1,2-Dibromo-3-Chloropropane	0.233	0.228		-2.15	50
1,2,4-Trichlorobenzene	1.077	1.029		-4.46	50
1,2,3-Trichlorobenzene	1.002	0.989		-1.3	50
1,2-Dichloroethane-d4	0.796	0.781		-1.88	50
Dibromofluoromethane	0.335	0.336		0.3	50
Toluene-d8	1.160	1.139		-1.81	50
4-Bromofluorobenzene	0.440	0.434		-1.36	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	149304	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	270355	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	243306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	119961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	116606	49.065	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.140%			
35) Dibromofluoromethane	5.379	113	90861	50.112	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.220%			
50) Toluene-d8	8.634	98	307967	49.087	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.180%			
62) 4-Bromofluorobenzene	11.061	95	117402	49.307	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	94404	61.061	ug/l	97
3) Chloromethane	1.300	50	117058	57.609	ug/l	98
4) Vinyl Chloride	1.380	62	115926	58.282	ug/l	100
5) Bromomethane	1.617	94	74054	58.713	ug/l	99
6) Chloroethane	1.697	64	75449	56.753	ug/l	97
7) Trichlorofluoromethane	1.898	101	163767	55.451	ug/l	99
8) Diethyl Ether	2.136	74	65417	54.148	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	95418	55.254	ug/l	99
10) Methyl Iodide	2.459	142	145088	53.870	ug/l	100
11) Tert butyl alcohol	2.946	59	61154	231.046	ug/l	100
12) 1,1-Dichloroethene	2.325	96	98052	55.275	ug/l	96
13) Acrolein	2.239	56	68714	281.718	ug/l	98
14) Allyl chloride	2.666	41	185829	50.766	ug/l	97
15) Acrylonitrile	3.062	53	282724	288.375	ug/l	99
16) Acetone	2.373	43	220076	212.978	ug/l	100
17) Carbon Disulfide	2.520	76	272927	56.202	ug/l	99
18) Methyl Acetate	2.703	43	130811	56.883	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	349001	53.896	ug/l	99
20) Methylene Chloride	2.794	84	119000	54.405	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	106771	55.907	ug/l	99
22) Diisopropyl ether	3.757	45	386641	54.502	ug/l	98
23) Vinyl Acetate	3.715	43	1566296	275.867	ug/l	100
24) 1,1-Dichloroethane	3.611	63	205496	54.500	ug/l	99
25) 2-Butanone	4.544	43	330135	256.128	ug/l	97
26) 2,2-Dichloropropane	4.471	77	130530	41.645	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	128773	55.058	ug/l	95
28) Bromochloromethane	4.891	49	86403	52.489	ug/l	99
29) Tetrahydrofuran	4.995	42	217984	281.124	ug/l	98
30) Chloroform	5.086	83	207673	54.504	ug/l	97
31) Cyclohexane	5.458	56	164278	52.311	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	171647	53.110	ug/l	99
36) 1,1-Dichloropropene	5.684	75	134570	50.792	ug/l	99
37) Ethyl Acetate	4.702	43	146380	51.600	ug/l	99
38) Carbon Tetrachloride	5.672	117	141128	49.026	ug/l	93
39) Methylcyclohexane	7.366	83	153808	51.142	ug/l	99
40) Benzene	6.025	78	428760	53.282	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	79236	54.104	ug/l		98
42) 1,2-Dichloroethane	6.074	62	157471	51.431	ug/l		98
43) Isopropyl Acetate	6.324	43	243453	52.327	ug/l		99
44) Trichloroethene	7.110	130	104230	53.576	ug/l		94
45) 1,2-Dichloropropane	7.415	63	110894	53.818	ug/l		99
46) Dibromomethane	7.568	93	79627	53.104	ug/l		97
47) Bromodichloromethane	7.805	83	164232	53.077	ug/l		96
48) Methyl methacrylate	7.677	41	121164	52.283	ug/l		98
49) 1,4-Dioxane	7.647	88	28012	1196.046	ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	703728	272.809	ug/l		100
52) Toluene	8.702	92	263320	53.113	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	159381	50.499	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	173466	51.421	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	104553	54.692	ug/l		98
56) Ethyl methacrylate	9.104	69	163467	54.448	ug/l		96
57) 1,3-Dichloropropane	9.293	76	179171	54.560	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	360369	251.172	ug/l		100
59) 2-Hexanone	9.415	43	483347	260.895	ug/l		99
60) Dibromochloromethane	9.506	129	119117	54.078	ug/l		99
61) 1,2-Dibromoethane	9.592	107	106971	54.937	ug/l		100
64) Tetrachloroethene	9.262	164	82104	51.765	ug/l		96
65) Chlorobenzene	10.061	112	288305	52.159	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	98820	51.810	ug/l		98
67) Ethyl Benzene	10.177	91	491426	51.527	ug/l		99
68) m/p-Xylenes	10.287	106	367469	103.518	ug/l		99
69) o-Xylene	10.628	106	180297	52.511	ug/l		98
70) Styrene	10.640	104	317529	52.779	ug/l		99
71) Bromoform	10.780	173	74197	52.097	ug/l	#	100
73) Isopropylbenzene	10.945	105	453473	49.722	ug/l		99
74) N-amyl acetate	10.829	43	210798	50.685	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	143186	51.892	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	127852m	52.639	ug/l		
77) Bromobenzene	11.183	156	112329	50.007	ug/l		98
78) n-propylbenzene	11.286	91	533484	49.483	ug/l		99
79) 2-Chlorotoluene	11.347	91	324017	49.069	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	370433	49.437	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.000	75	44224	46.433	ug/l		97
82) 4-Chlorotoluene	11.439	91	386898	49.610	ug/l		99
83) tert-Butylbenzene	11.695	119	373585	48.704	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	376730	49.591	ug/l		100
85) sec-Butylbenzene	11.872	105	445326	48.878	ug/l		100
86) p-Isopropyltoluene	11.994	119	373936	48.479	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	205631	49.286	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	207463	48.449	ug/l		98
89) n-Butylbenzene	12.317	91	345737	48.442	ug/l		98
90) Hexachloroethane	12.518	117	65317	48.232	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	198557	49.953	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	27323	48.908	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	123384	47.762	ug/l		98
94) Hexachlorobutadiene	13.707	225	39729	45.277	ug/l		99
95) Naphthalene	13.756	128	389975	49.575	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	118608	49.357	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
VSTDCCC050EC

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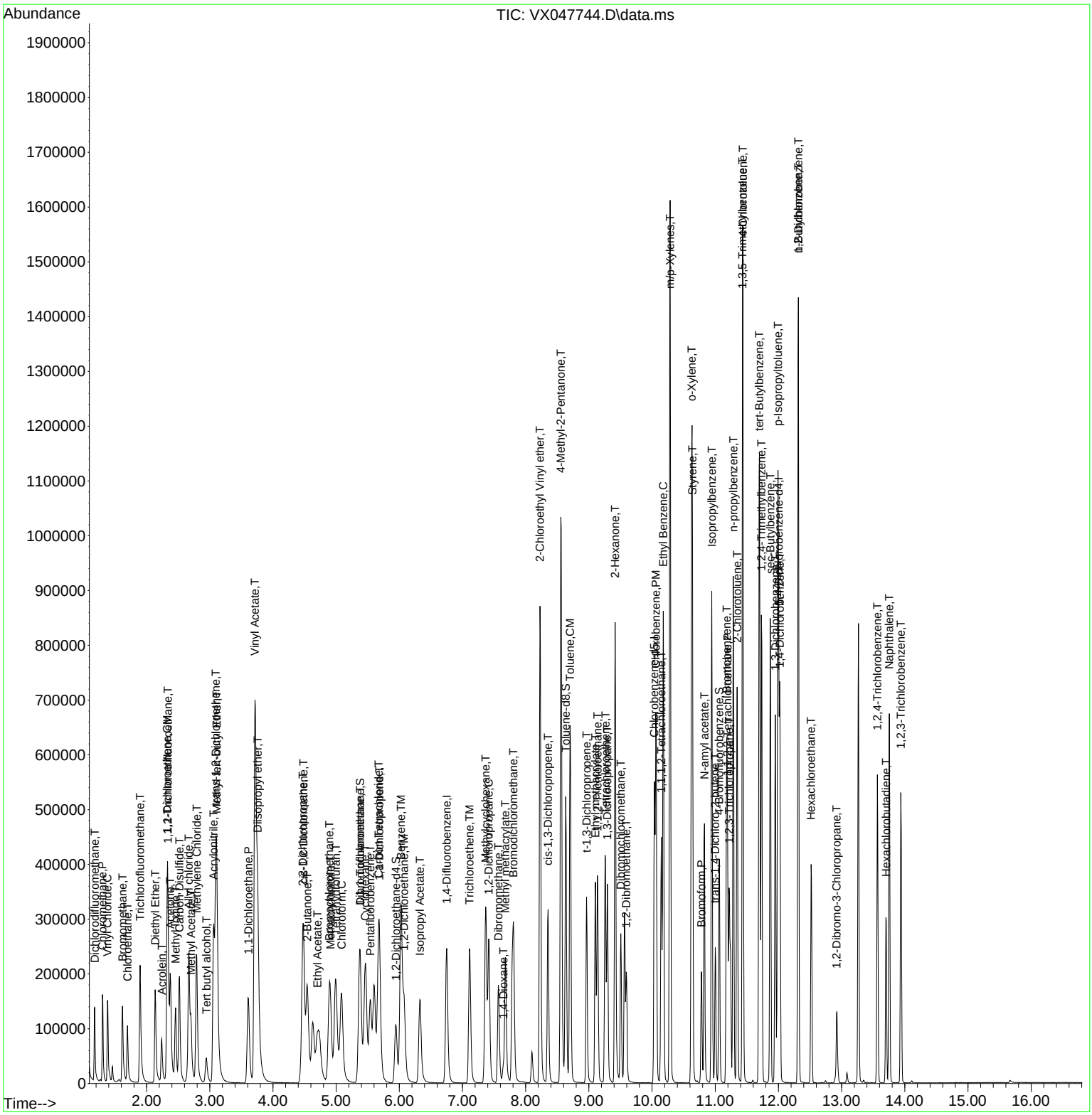
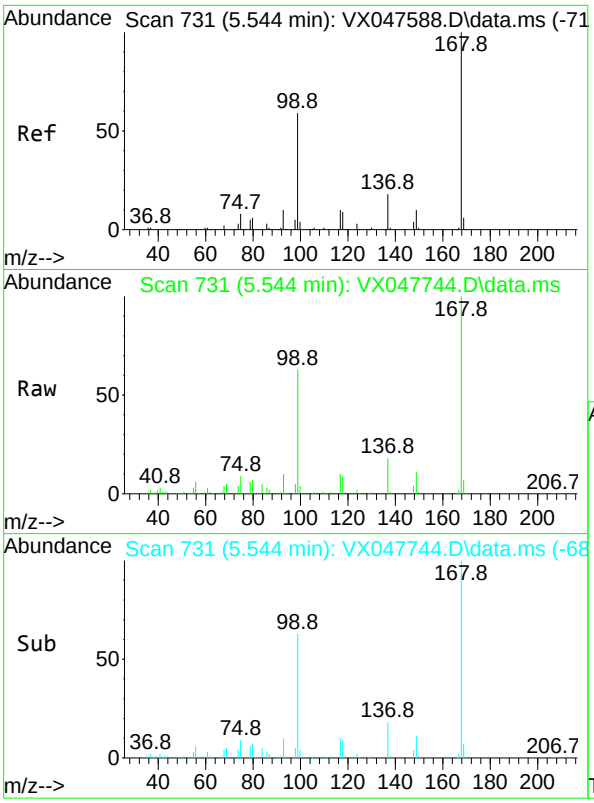
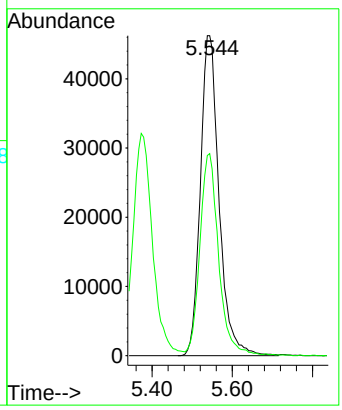




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:168 Resp: 14930

Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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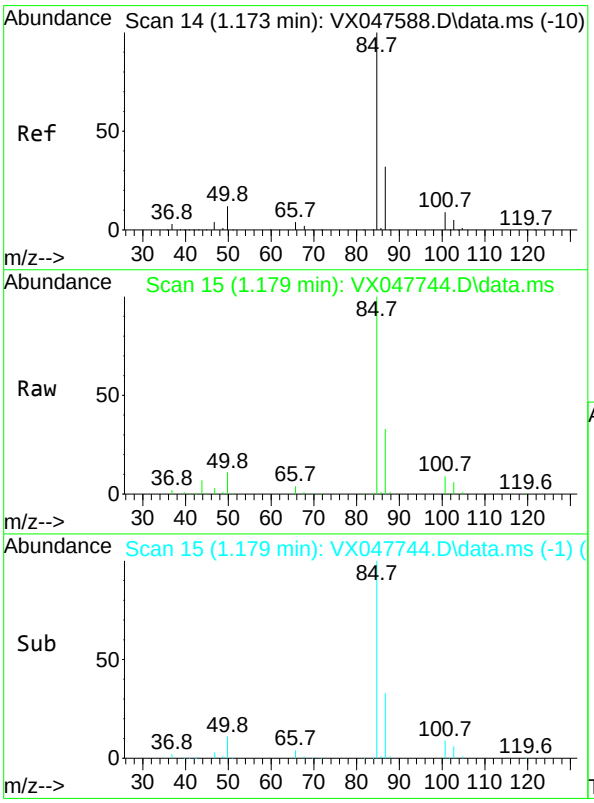
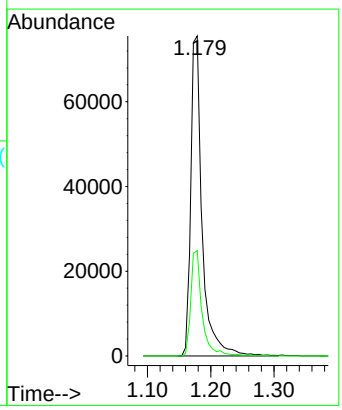
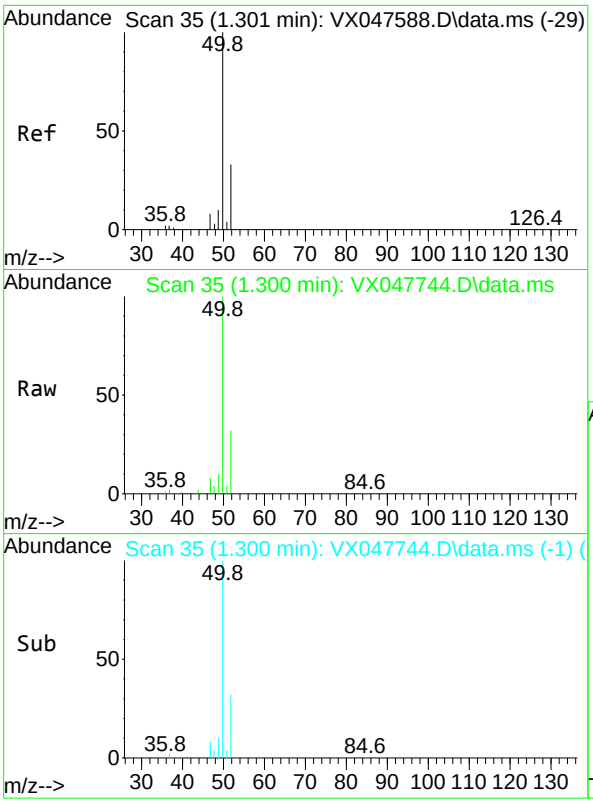


#2
Dichlorodifluoromethane
Concen: 61.061 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 85 Resp: 94404

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3

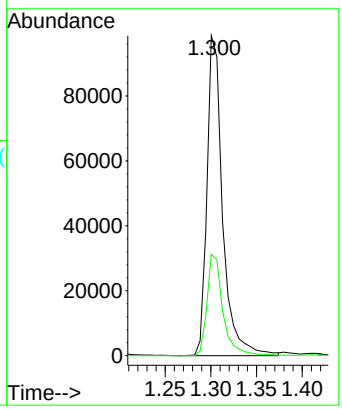




#3
Chloromethane
Concen: 57.609 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 50 Resp: 11705

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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Reviewed By :John Carlone 09/24/2025
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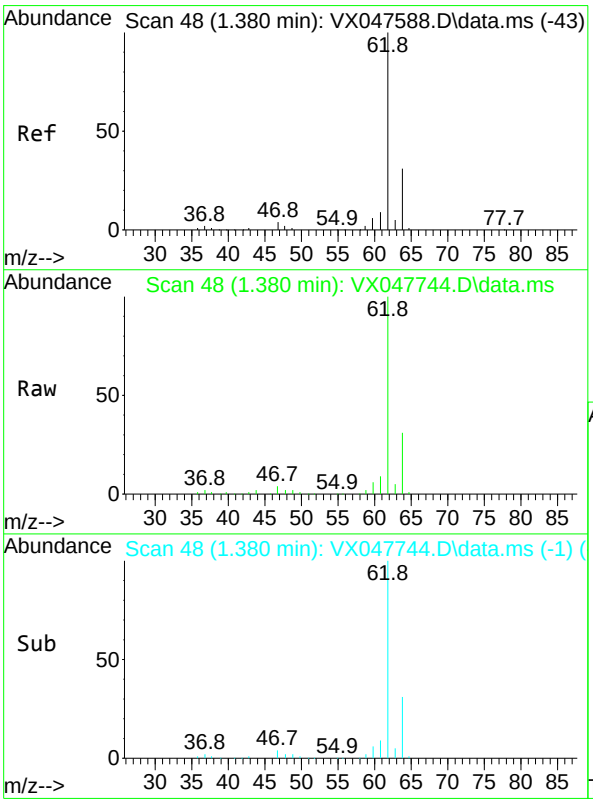
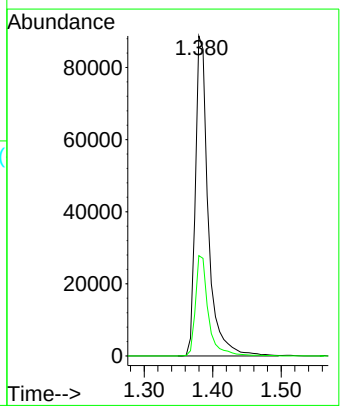
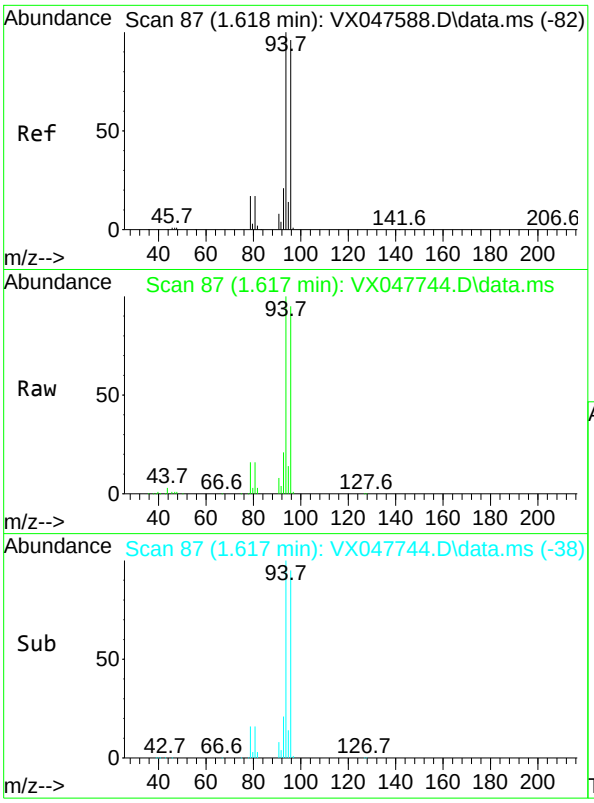


#4
Vinyl Chloride
Concen: 58.282 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 62 Resp: 115926

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.9	37.3

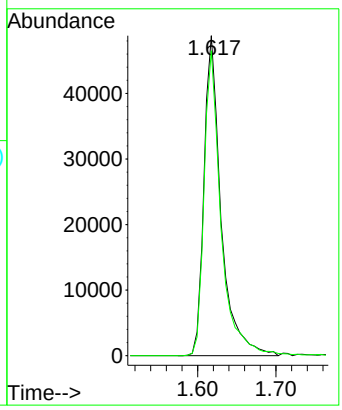




#5
Bromomethane
Concen: 58.713 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 94 Resp: 7405

Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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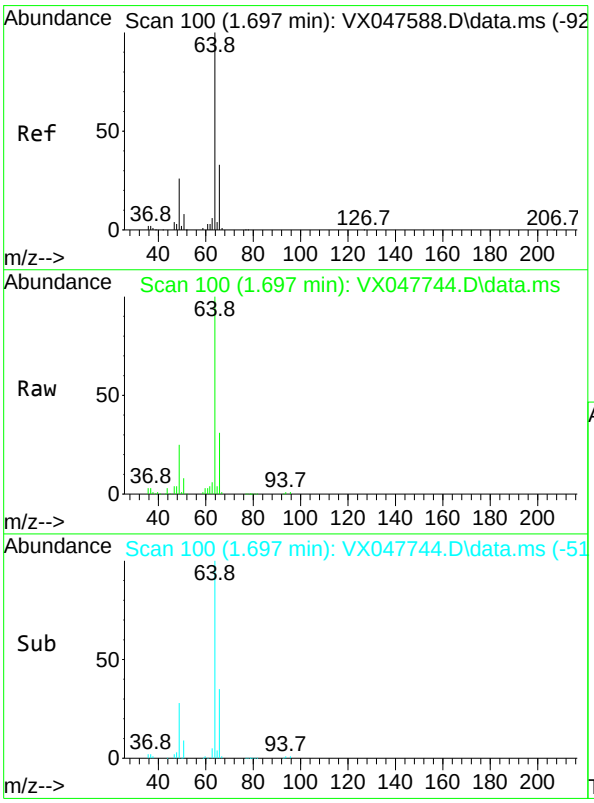
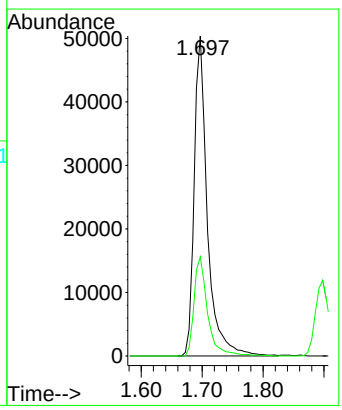
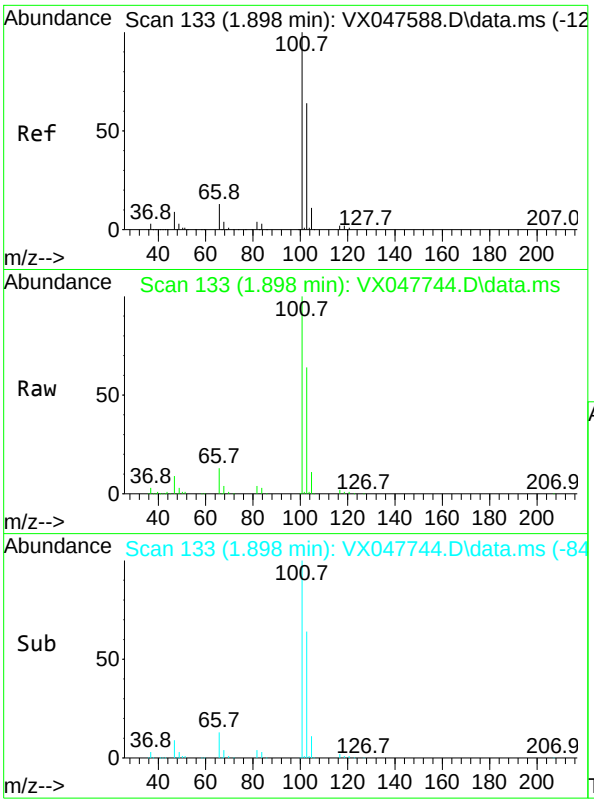


#6
Chloroethane
Concen: 56.753 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 64 Resp: 75449

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.1	39.1





#7
Trichlorofluoromethane
Concen: 55.451 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:101 Resp: 16376

Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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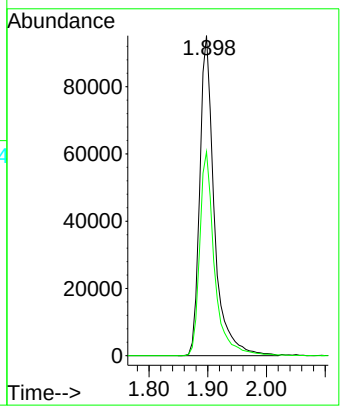
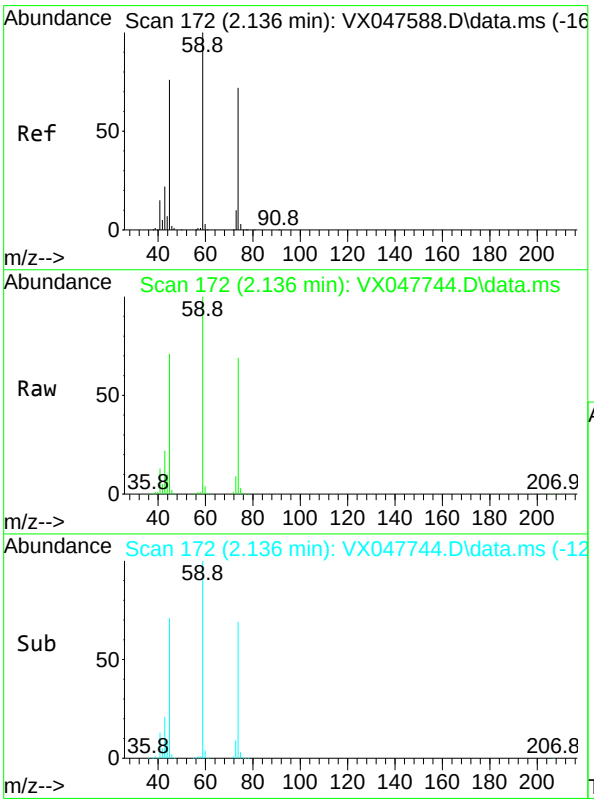
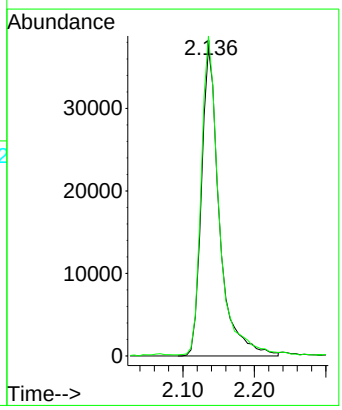


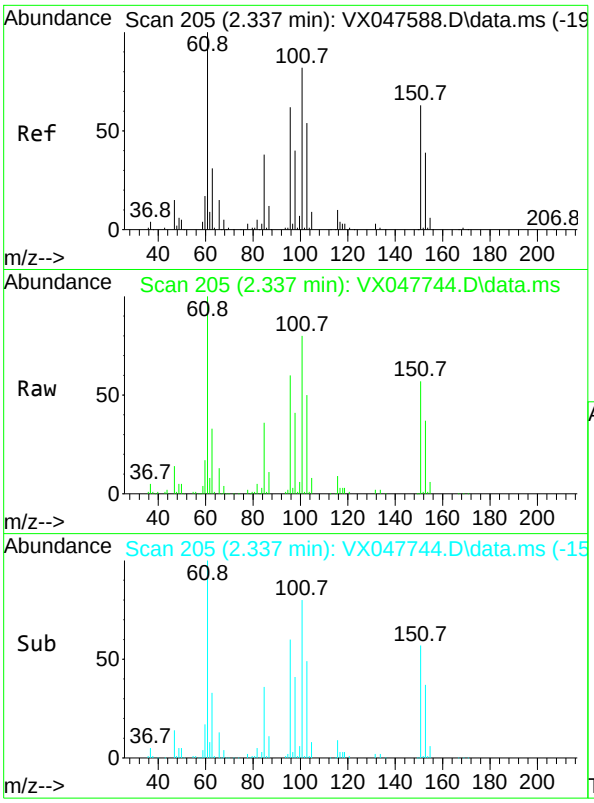


#8
Diethyl Ether
Concen: 54.148 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 74 Resp: 65417

Ion	Ratio	Lower	Upper
74	100		
45	102.9	52.3	156.8

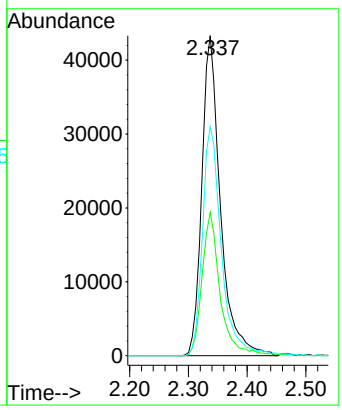




#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.254 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:101 Resp: 9541

Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.5	53.3
151	73.2	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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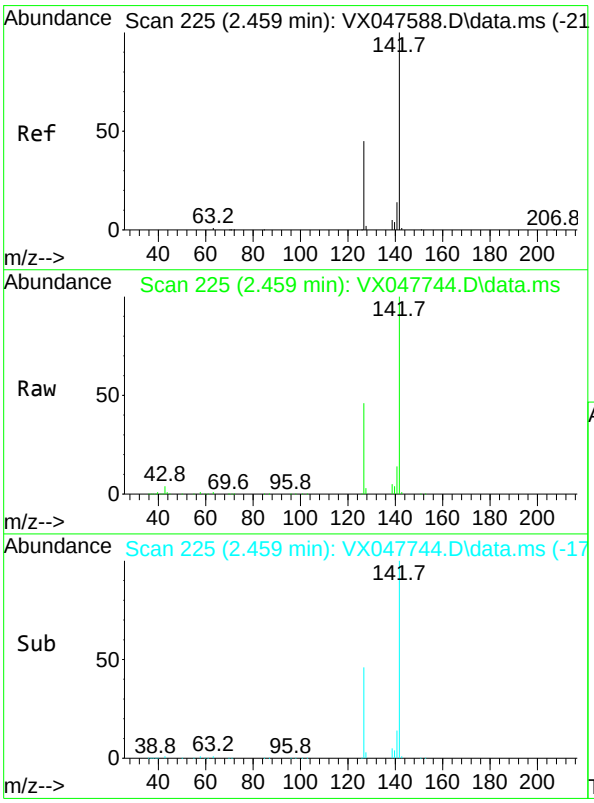
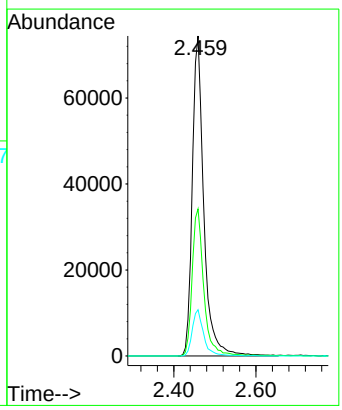
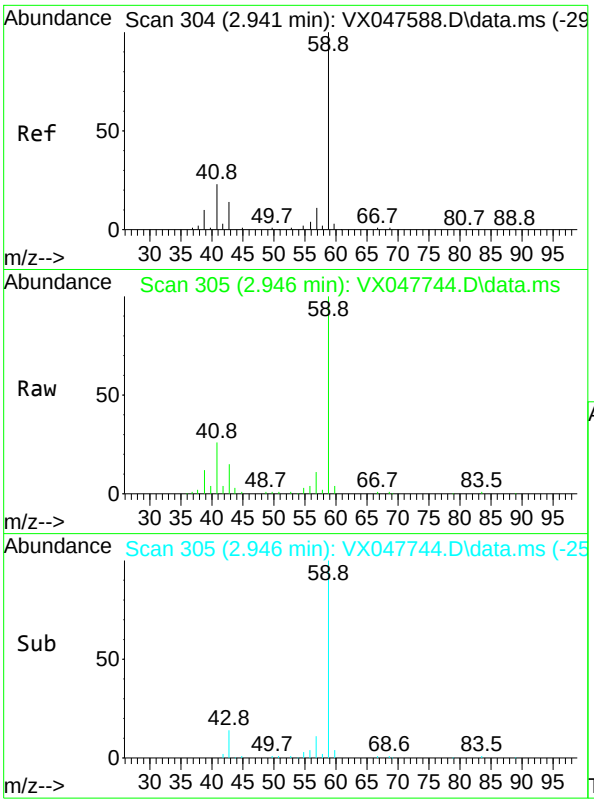


#10
Methyl Iodide
Concen: 53.870 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:142 Resp: 145088

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.3	11.4	17.0

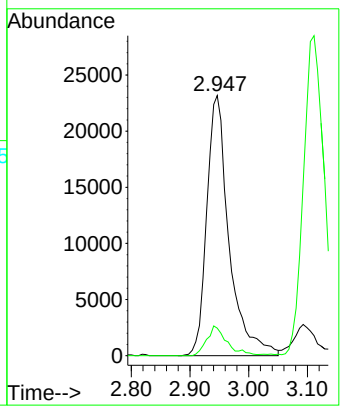




#11
Tert butyl alcohol
Concen: 231.046 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 59 Resp: 6115

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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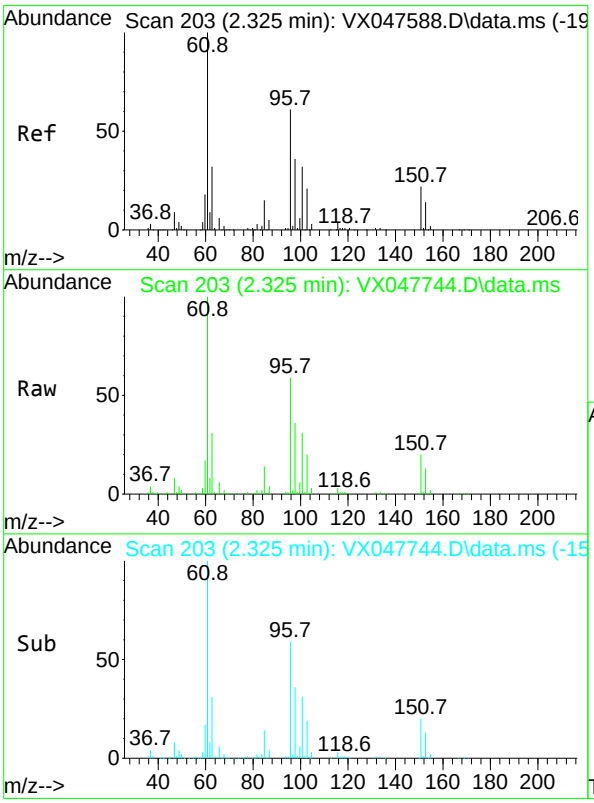
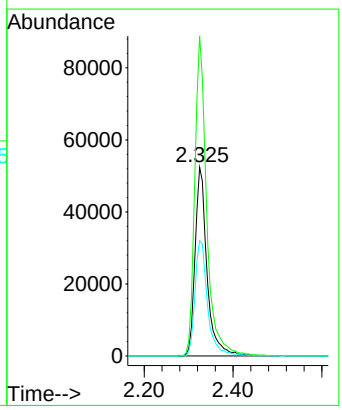
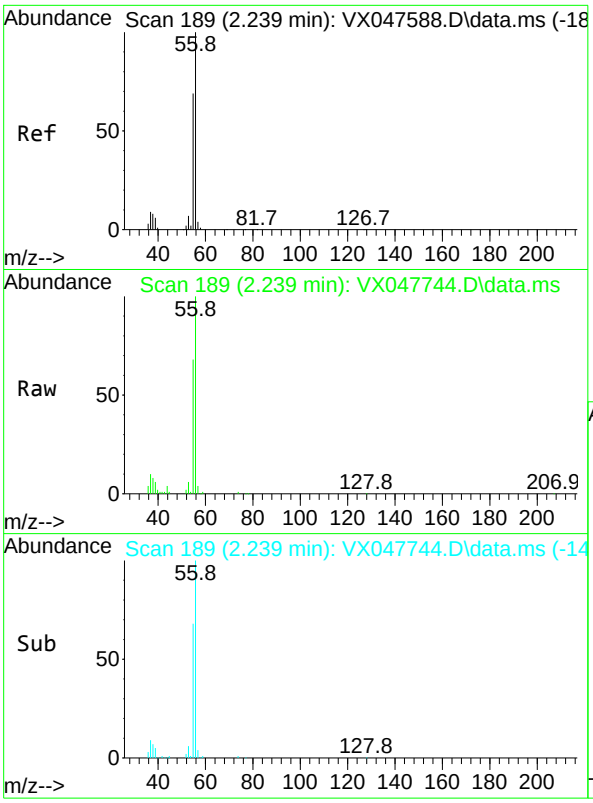


#12
1,1-Dichloroethene
Concen: 55.275 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 96 Resp: 98052

Ion	Ratio	Lower	Upper
96	100		
61	169.5	131.0	196.6
98	61.1	47.7	71.5

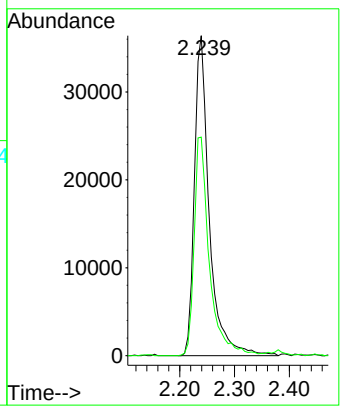




#13
Acrolein
Concen: 281.718 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 56 Resp: 6871

Ion	Ratio	Lower	Upper
56	100		
55	69.9	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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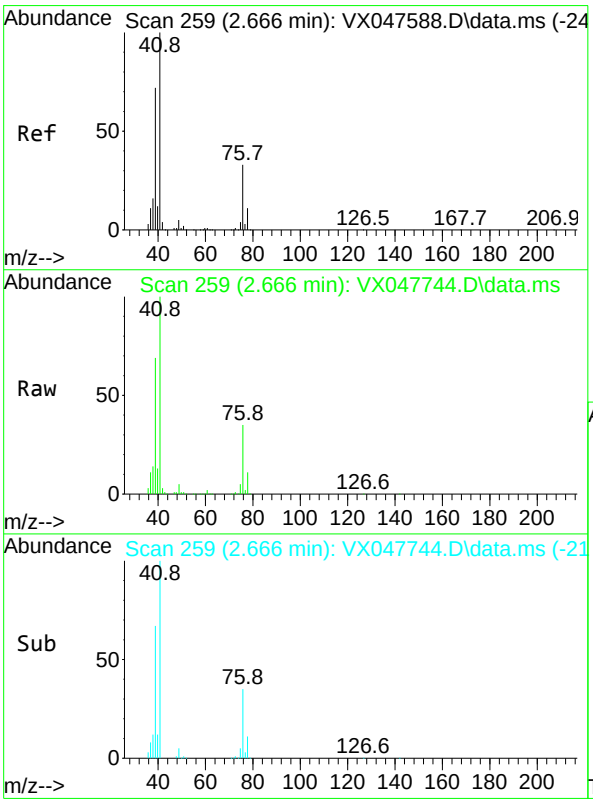
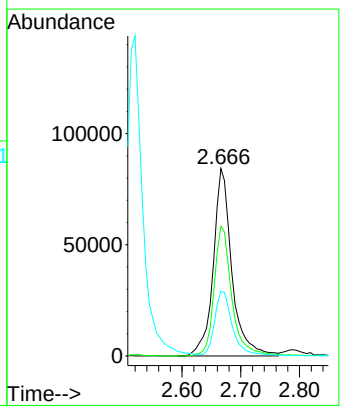
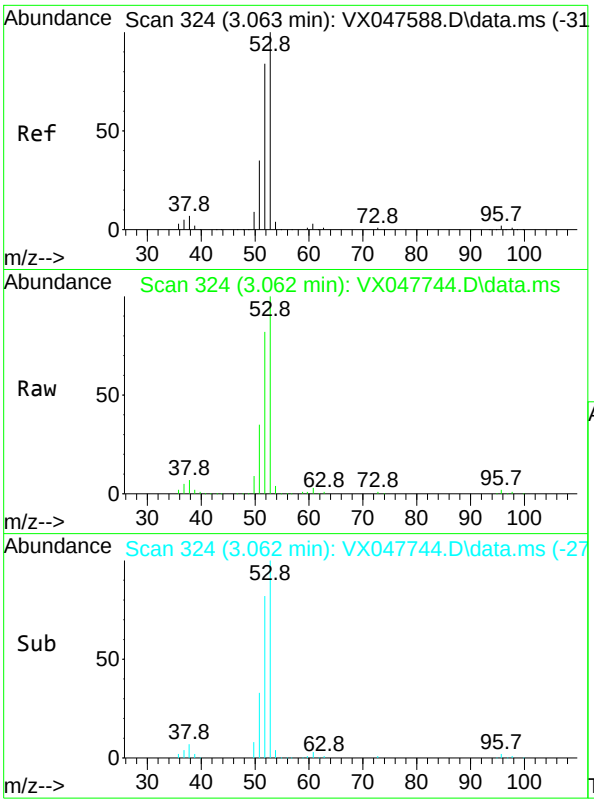


#14
Allyl chloride
Concen: 50.766 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 185829

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.7	82.1
76	33.1	25.7	38.5

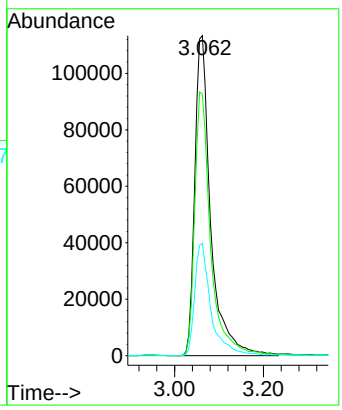




#15
Acrylonitrile
Concen: 288.375 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 53 Resp: 28272

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.4	99.6
51	36.3	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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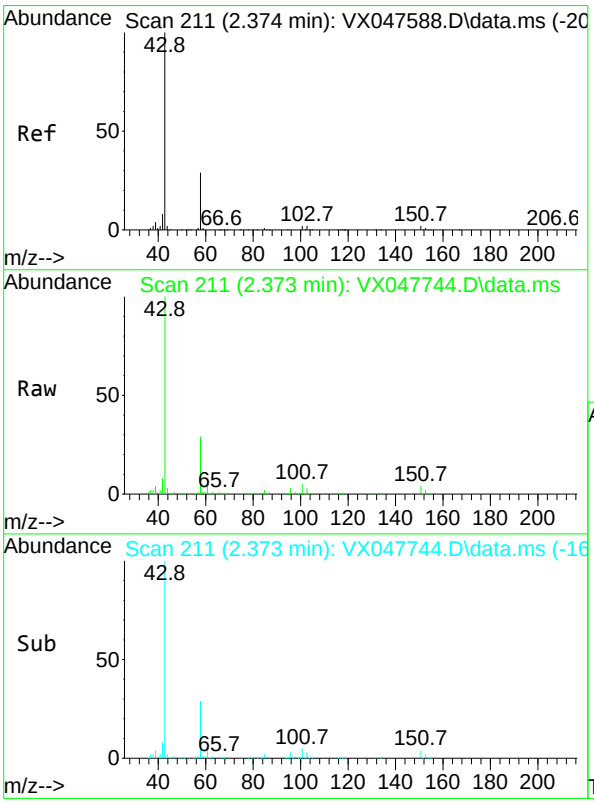
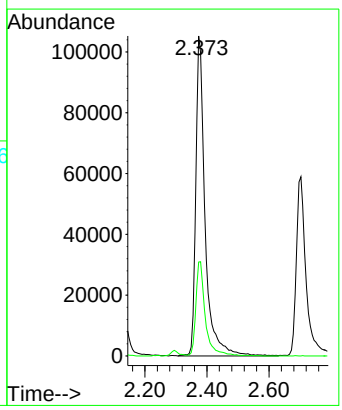
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

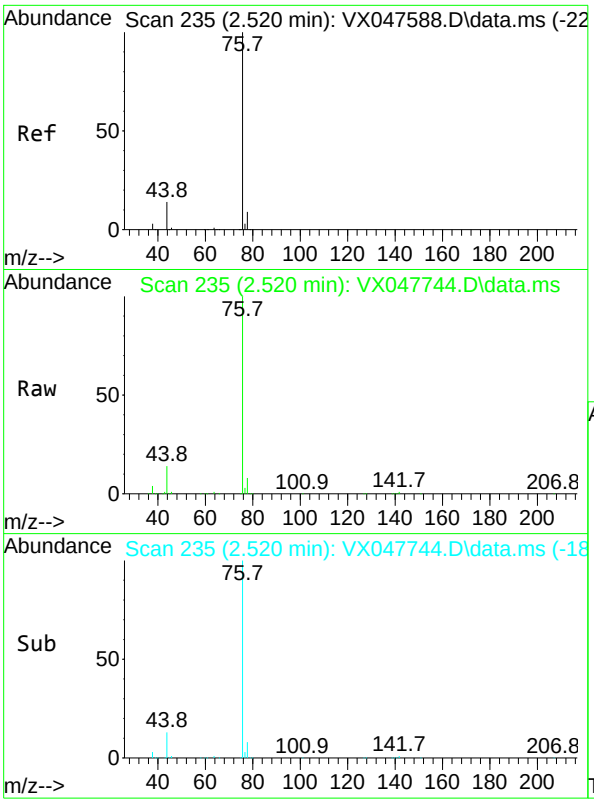


#16
Acetone
Concen: 212.978 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 220076

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0

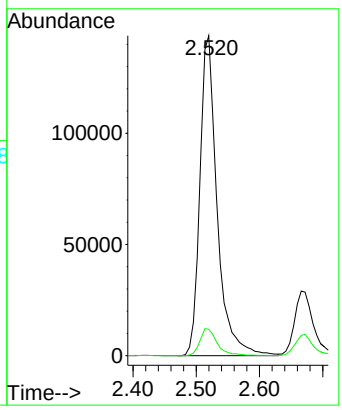




#17
Carbon Disulfide
Concen: 56.202 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 76 Resp: 27292

Ion	Ratio	Lower	Upper
76	100		
78	8.3	6.8	10.2



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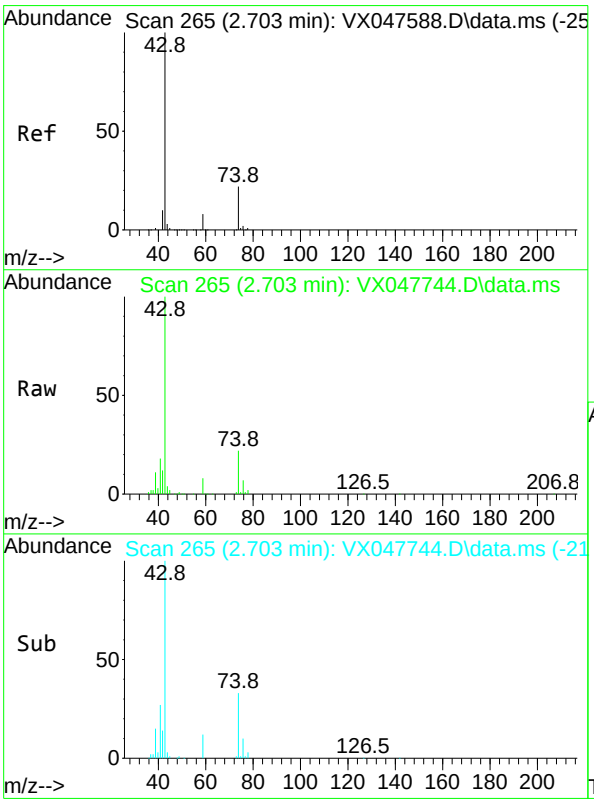
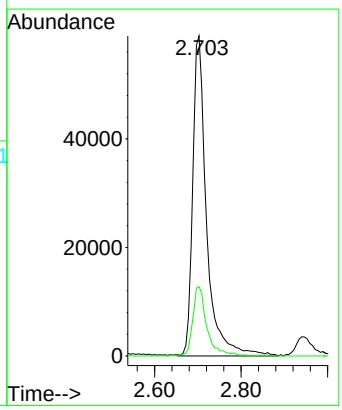
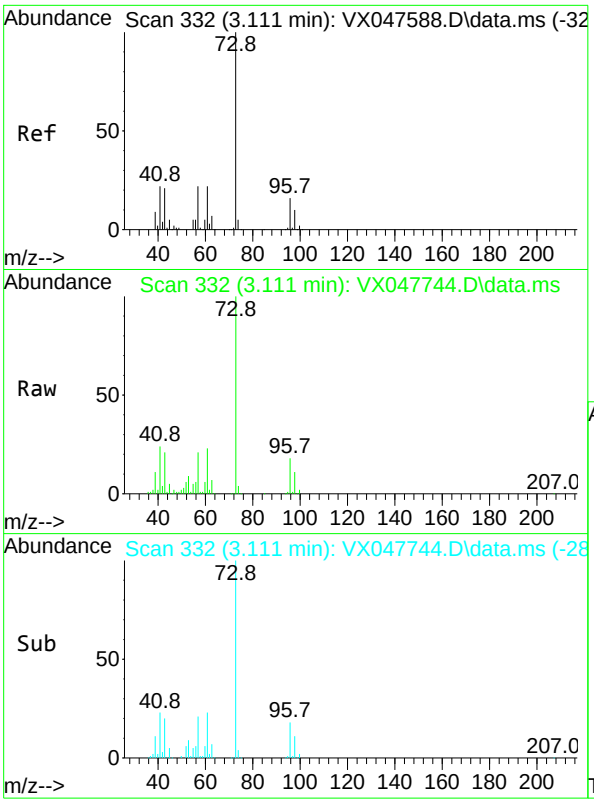


#18
Methyl Acetate
Concen: 56.883 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 130811

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2

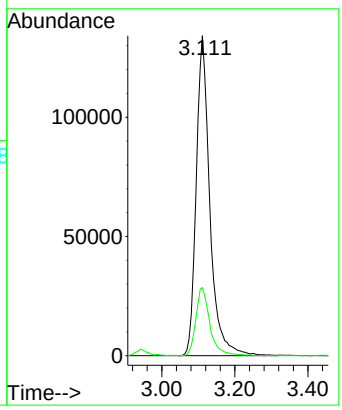




#19
Methyl tert-butyl Ether
Concen: 53.896 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 73 Resp: 34900

Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.4	26.2



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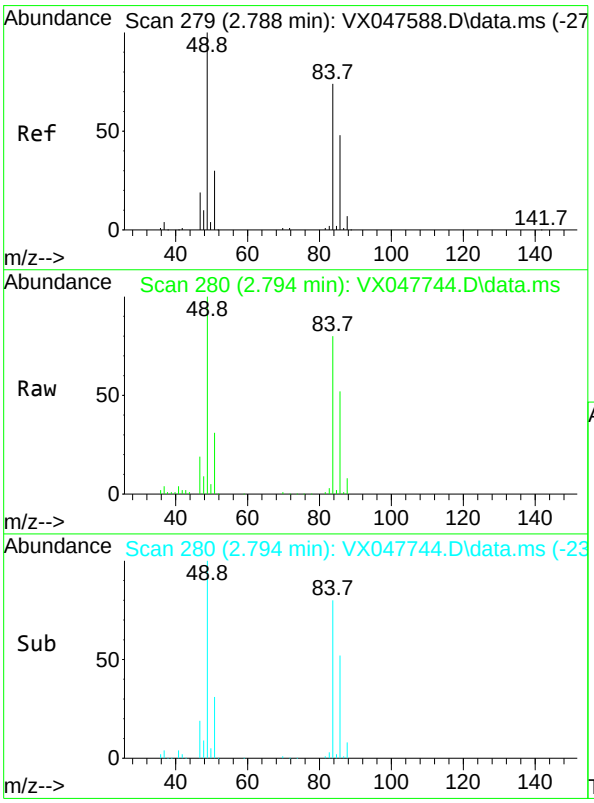
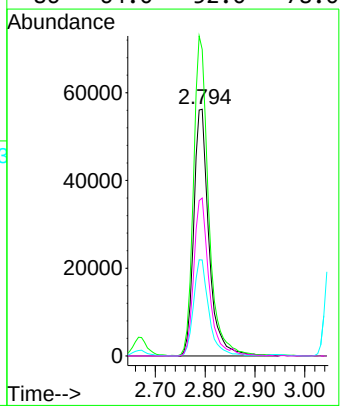
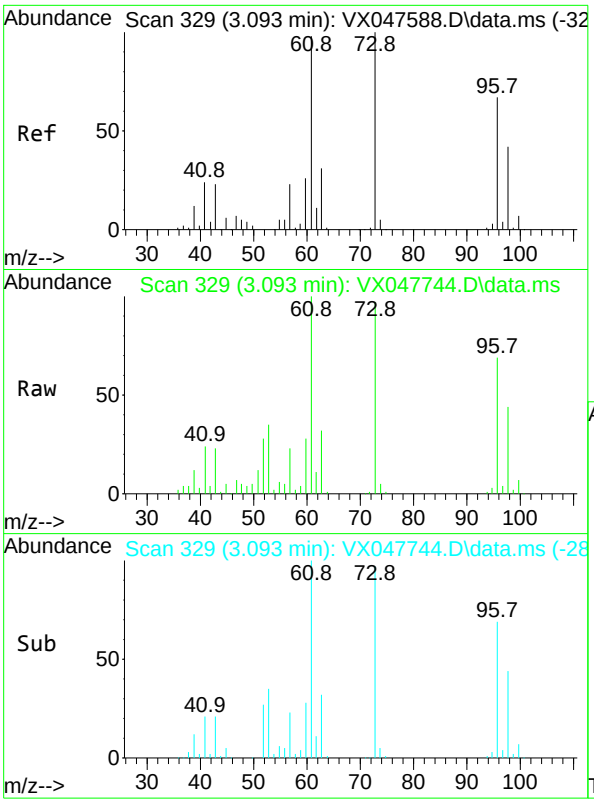


#20
Methylene Chloride
Concen: 54.405 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 84 Resp: 119000

Ion	Ratio	Lower	Upper
84	100		
49	124.1	108.6	162.8
51	38.9	32.6	48.8
86	64.0	52.0	78.0

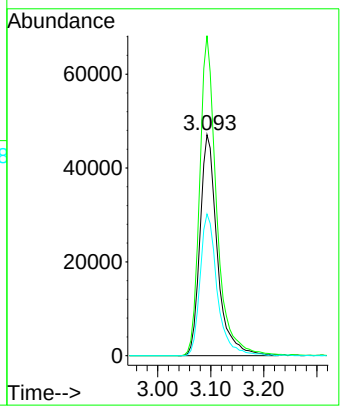




#21
trans-1,2-Dichloroethene
Concen: 55.907 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 96 Resp: 10677

Ion	Ratio	Lower	Upper
96	100		
61	144.8	116.2	174.2
98	64.1	49.3	73.9



Instrument :
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ClientSampleId :
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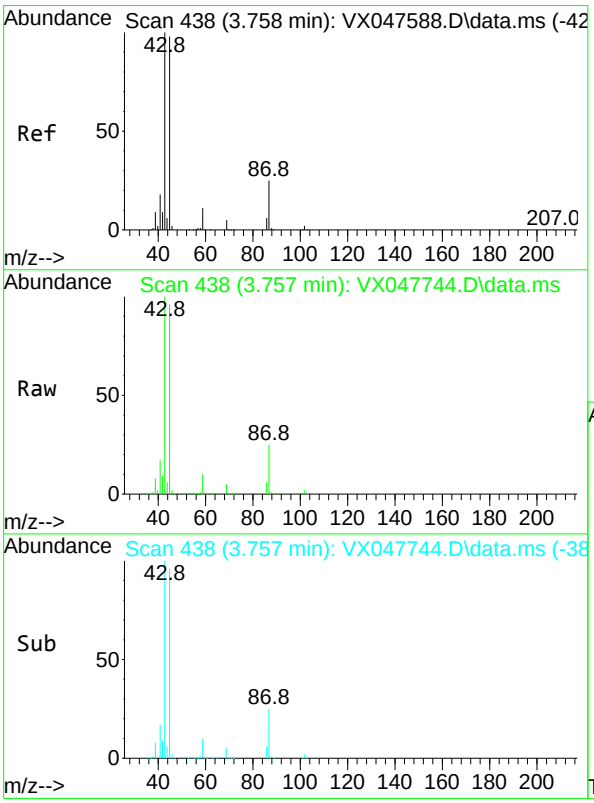
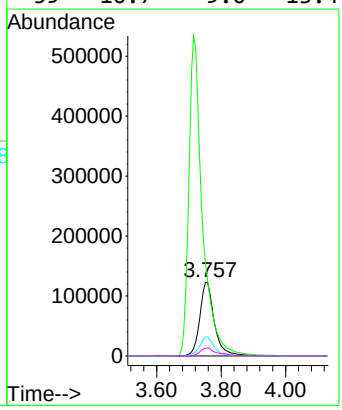
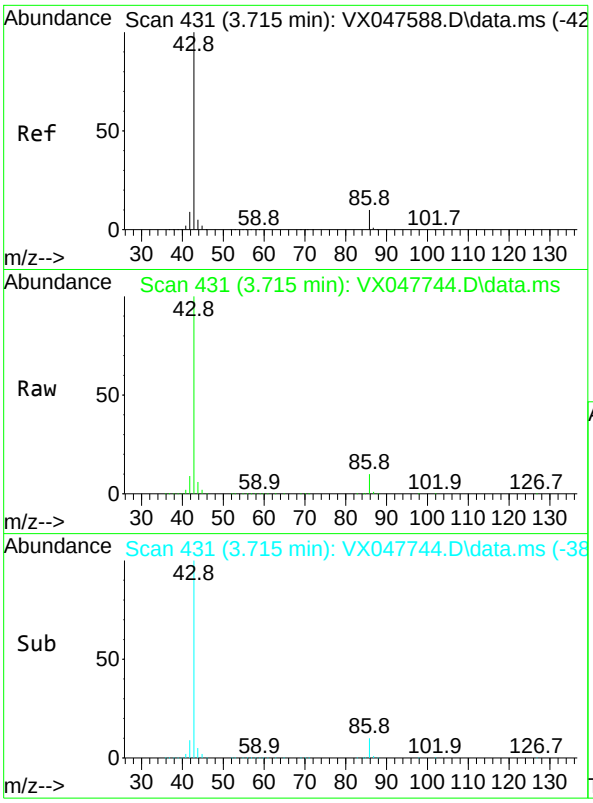


#22
Diisopropyl ether
Concen: 54.502 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 45 Resp: 386641

Ion	Ratio	Lower	Upper
45	100		
43	103.5	81.0	121.4
87	25.6	20.3	30.5
59	10.7	9.0	13.4

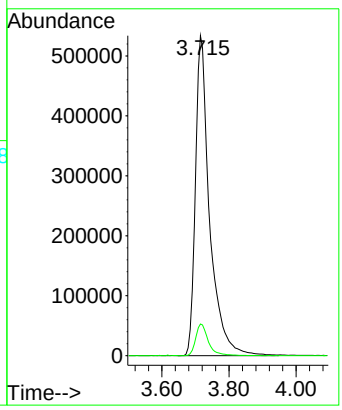




#23
Vinyl Acetate
Concen: 275.867 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 156629

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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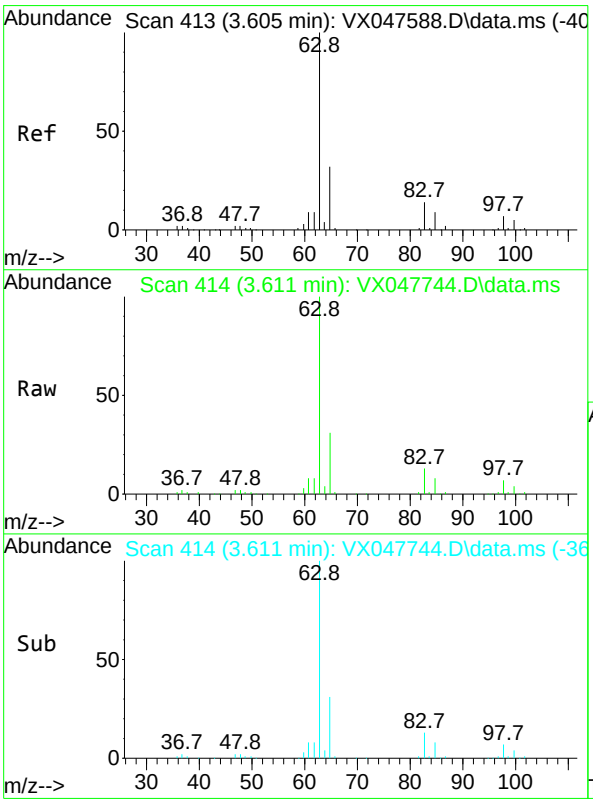
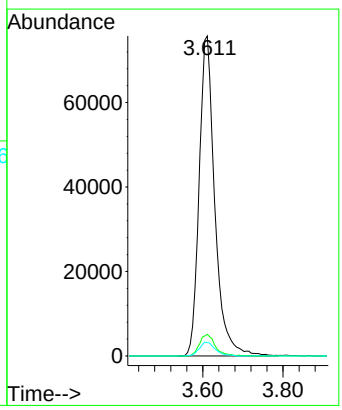
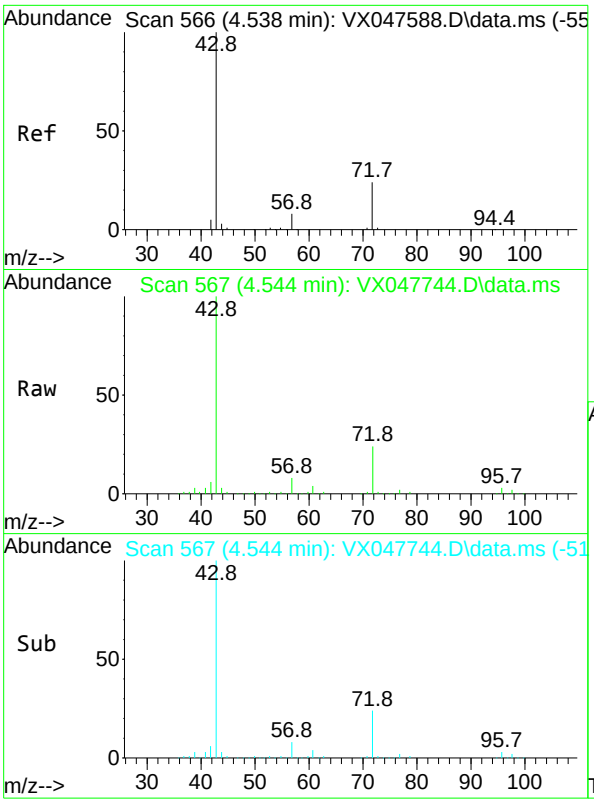


#24
1,1-Dichloroethane
Concen: 54.500 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 205496

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.2	2.3	6.9

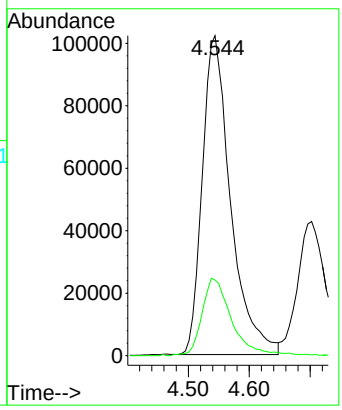




#25
2-Butanone
Concen: 256.128 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 33013

Ion	Ratio	Lower	Upper
43	100		
72	23.4	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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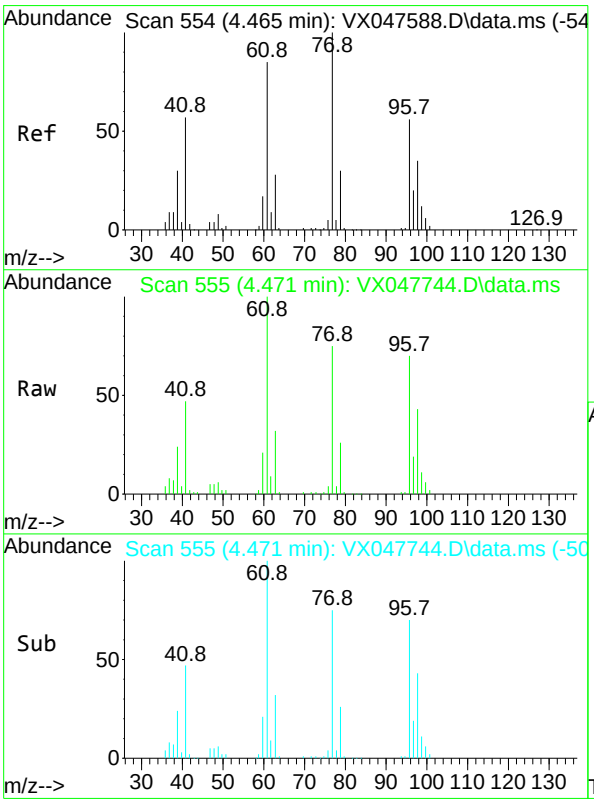
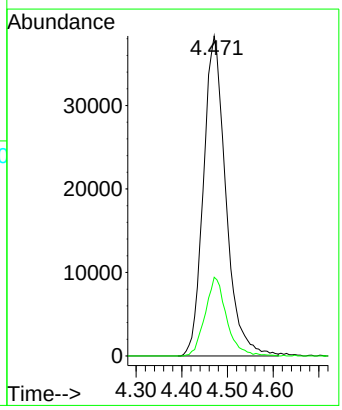
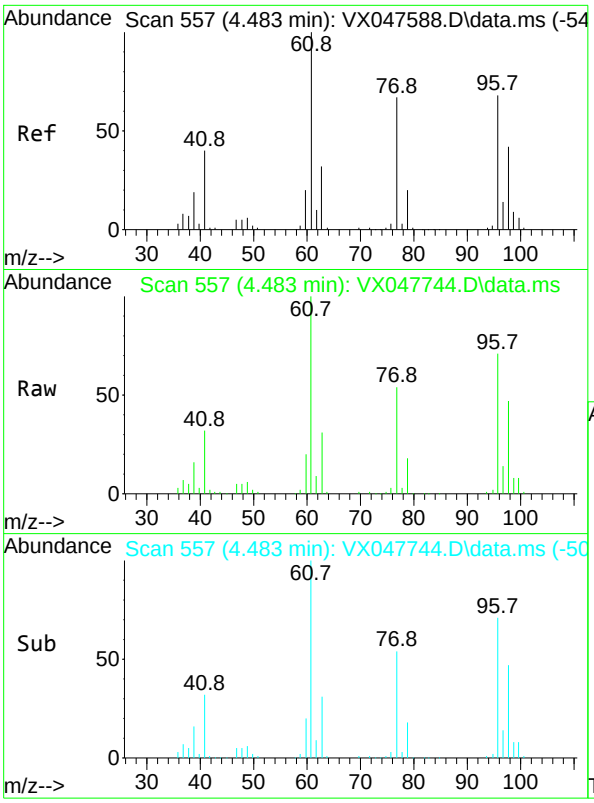


#26
2,2-Dichloropropane
Concen: 41.645 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 77 Resp: 130530

Ion	Ratio	Lower	Upper
77	100		
97	23.5	10.9	32.7

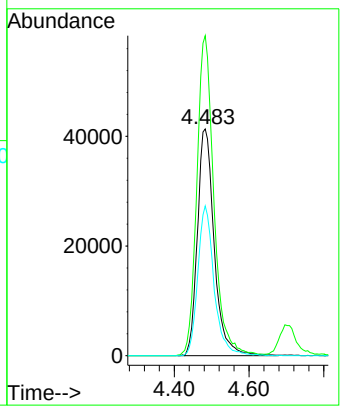




#27
cis-1,2-Dichloroethene
Concen: 55.058 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 96 Resp: 12877

Ion	Ratio	Lower	Upper
96	100		
61	143.3	0.0	303.2
98	64.2	0.0	127.8



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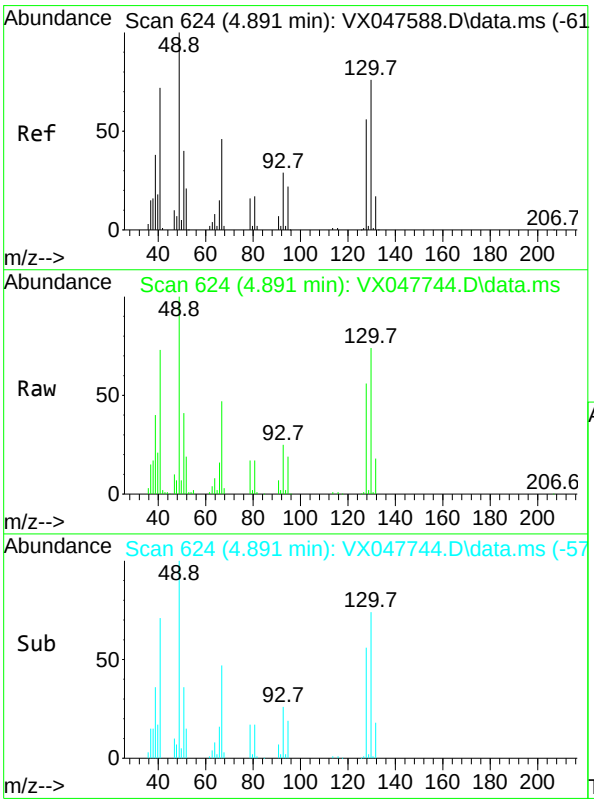
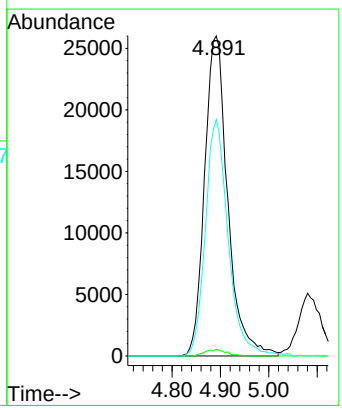
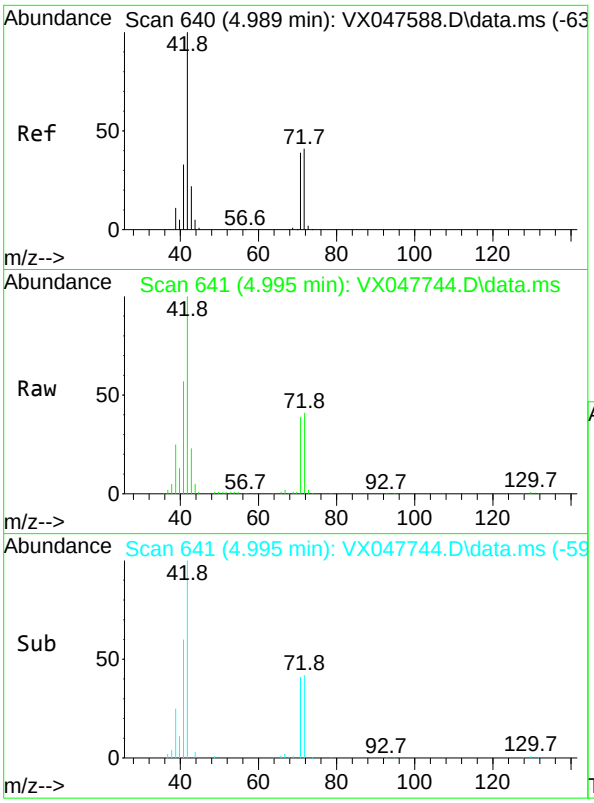


#28
Bromochloromethane
Concen: 52.489 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 49 Resp: 86403

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.8	57.8	86.8

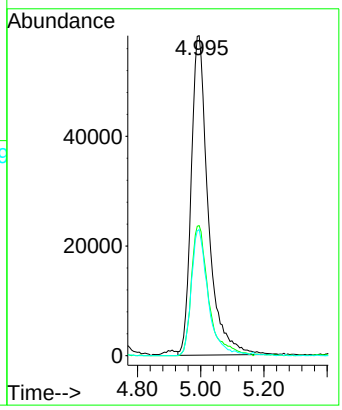




#29
Tetrahydrofuran
Concen: 281.124 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 42 Resp: 21798

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	39.0	31.9	47.9



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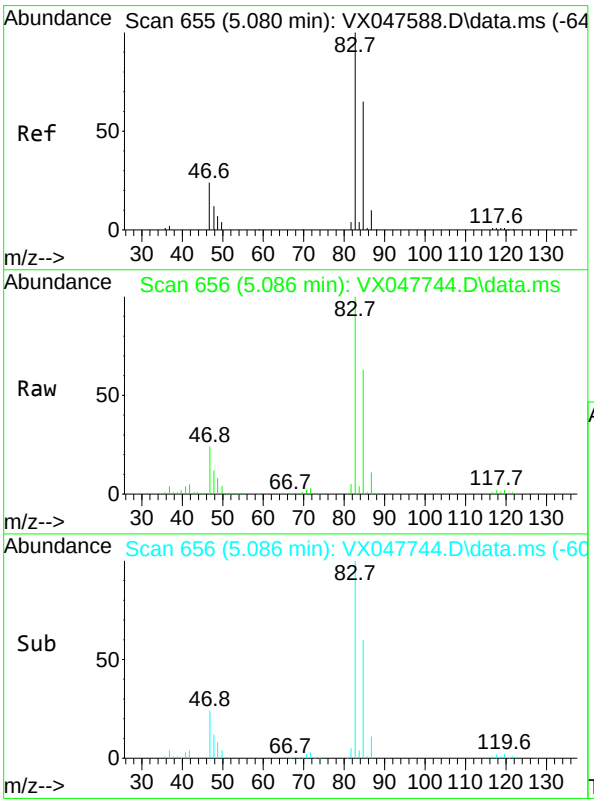
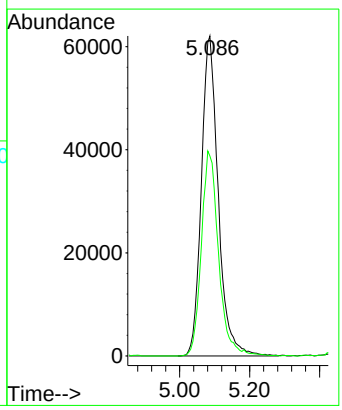
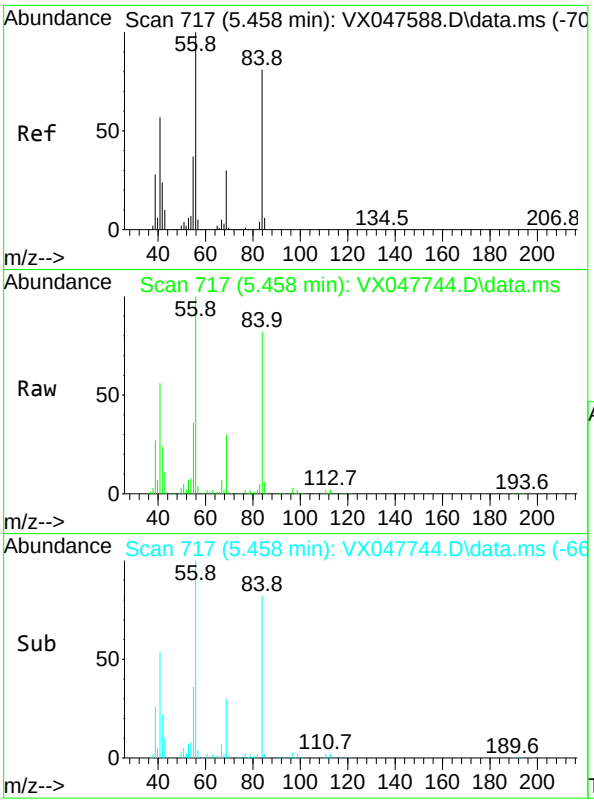


#30
Chloroform
Concen: 54.504 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 207673

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.8	77.6

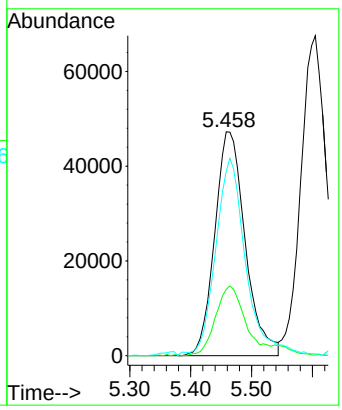




#31
Cyclohexane
Concen: 52.311 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 56 Resp: 16427

Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.8	35.8
84	82.3	64.6	97.0



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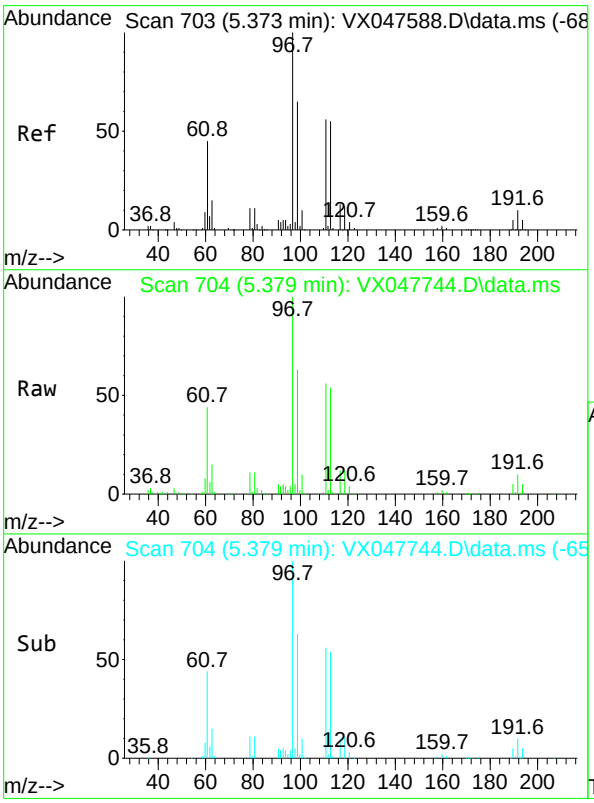
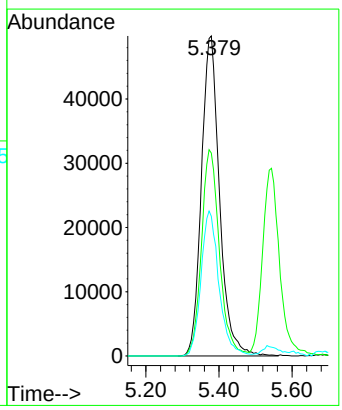
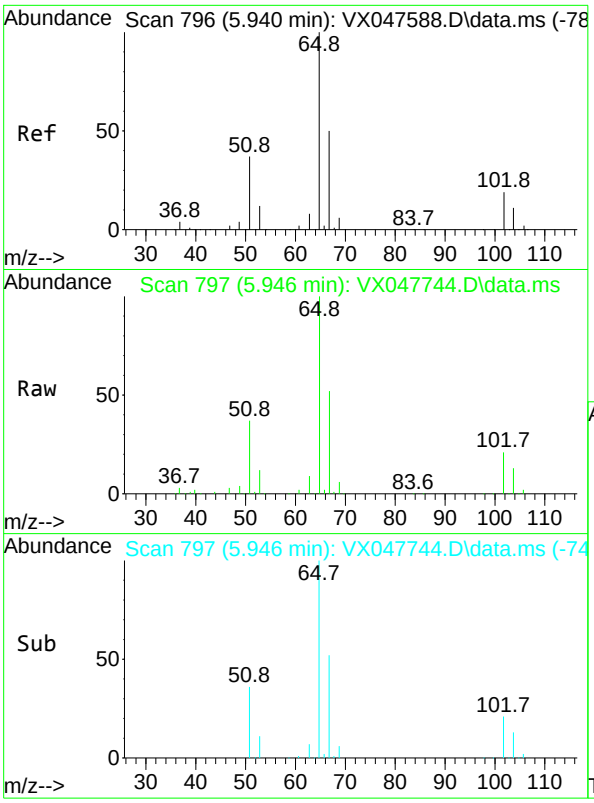


#32
1,1,1-Trichloroethane
Concen: 53.110 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 97 Resp: 171647

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	45.0	35.8	53.8

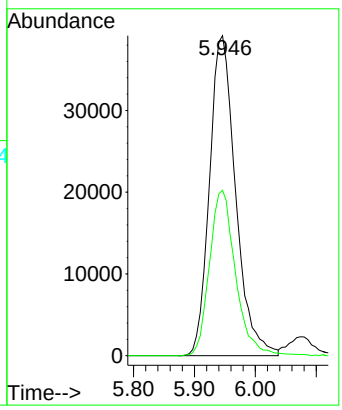




#33
1,2-Dichloroethane-d4
Concen: 49.065 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 65 Resp: 11660

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
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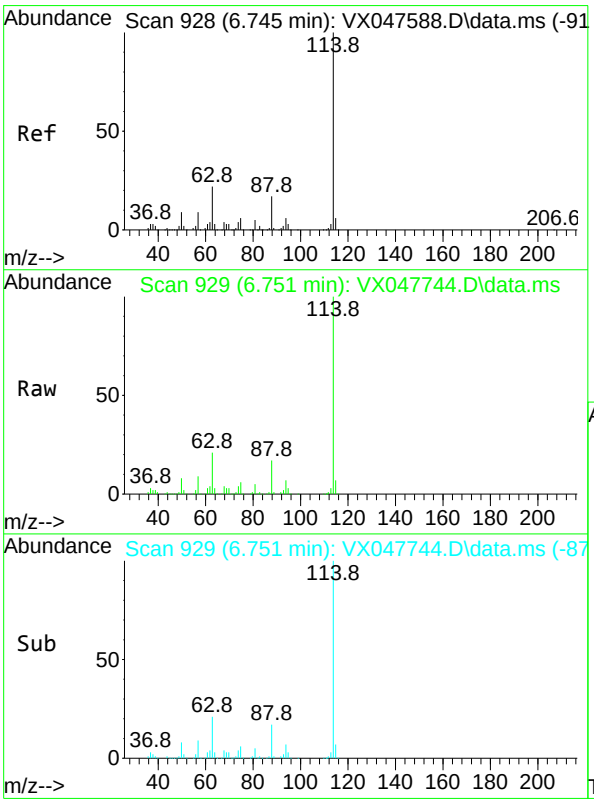
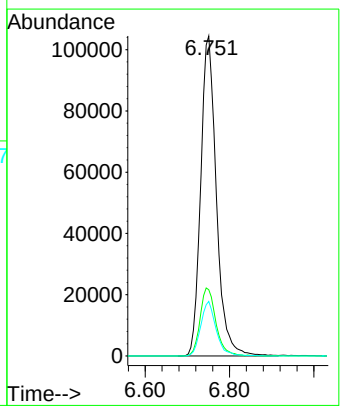
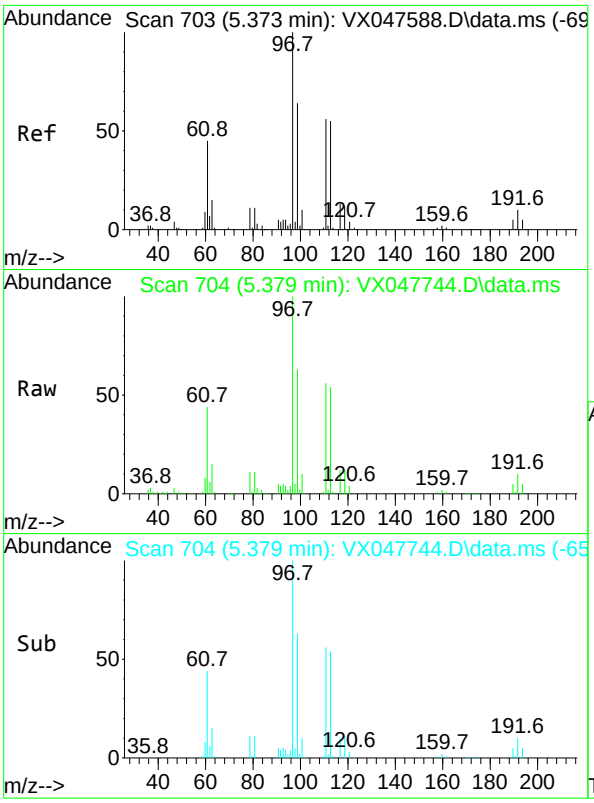


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:114 Resp: 270355

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	17.1	0.0	34.2

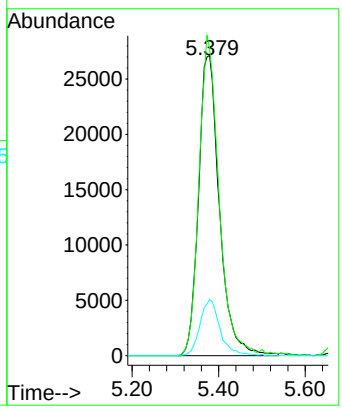




#35
Dibromofluoromethane
Concen: 50.112 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:113 Resp: 9086

Ion	Ratio	Lower	Upper
113	100		
111	101.7	80.9	121.3
192	18.0	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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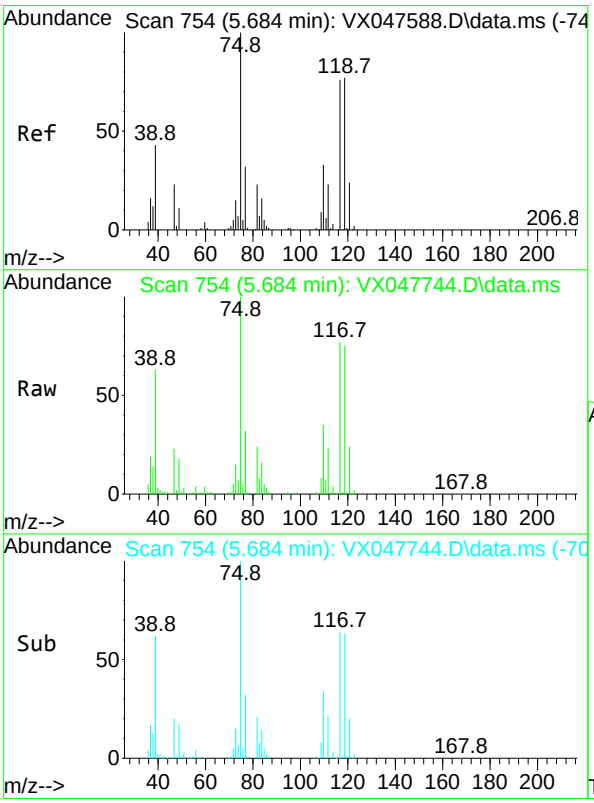
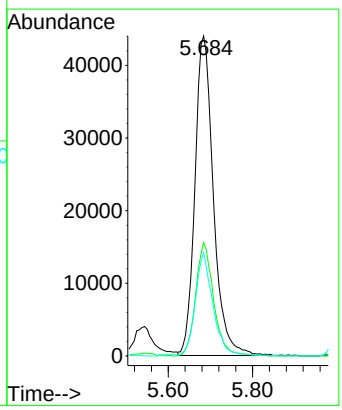
Supervised By :Mahesh Dadoda 09/26/2025

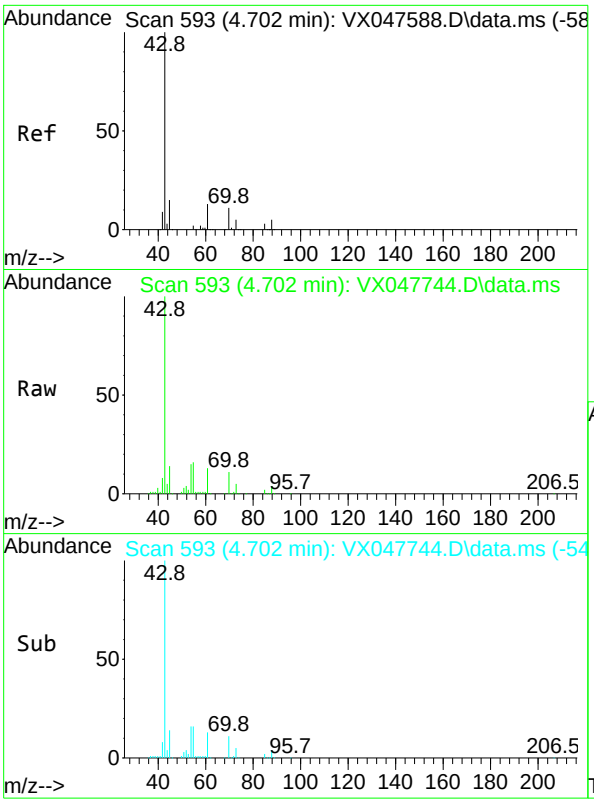


#36
1,1-Dichloropropene
Concen: 50.792 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 134570

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	30.3	24.3	36.5

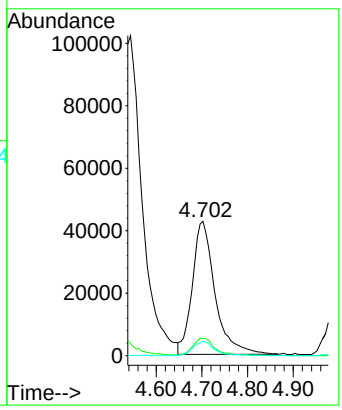




#37
Ethyl Acetate
Concen: 51.600 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 14638

Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.7	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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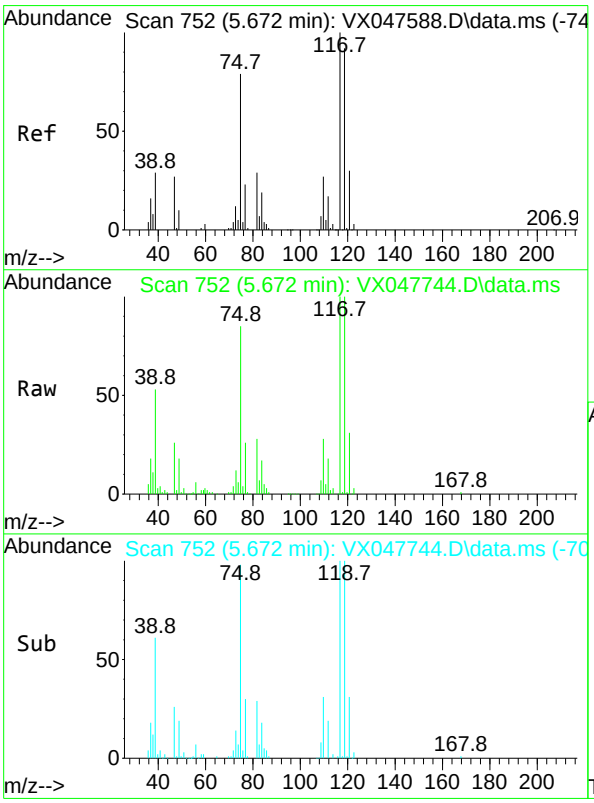
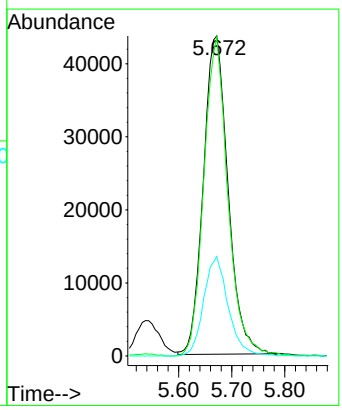
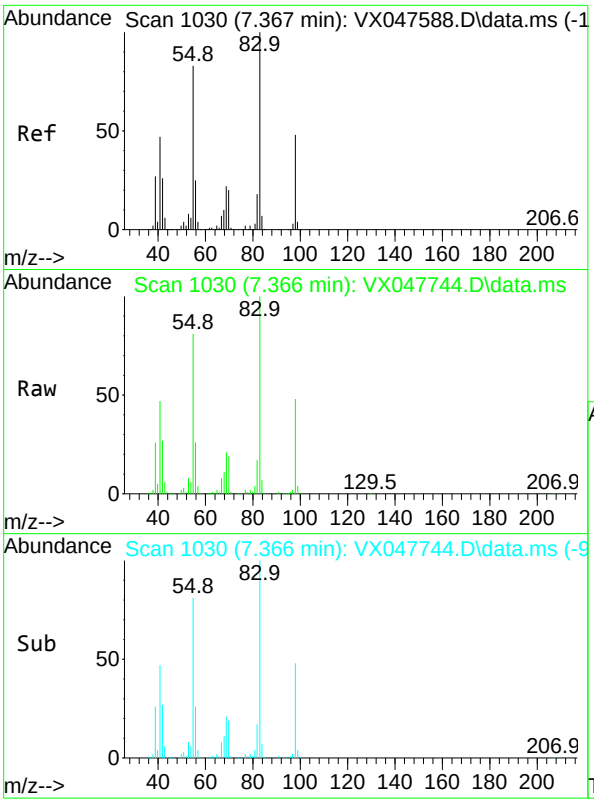


#38
Carbon Tetrachloride
Concen: 49.026 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:117 Resp: 141128

Ion	Ratio	Lower	Upper
117	100		
119	100.0	73.4	110.2
121	31.2	23.8	35.6

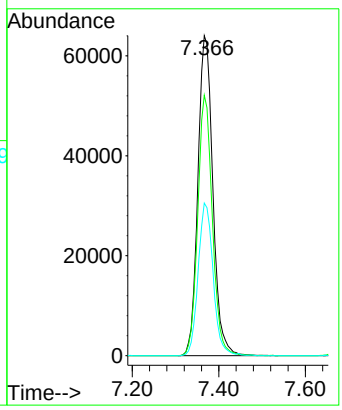




#39
Methylcyclohexane
Concen: 51.142 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 15380

Ion	Ratio	Lower	Upper
83	100		
55	81.4	66.4	99.6
98	47.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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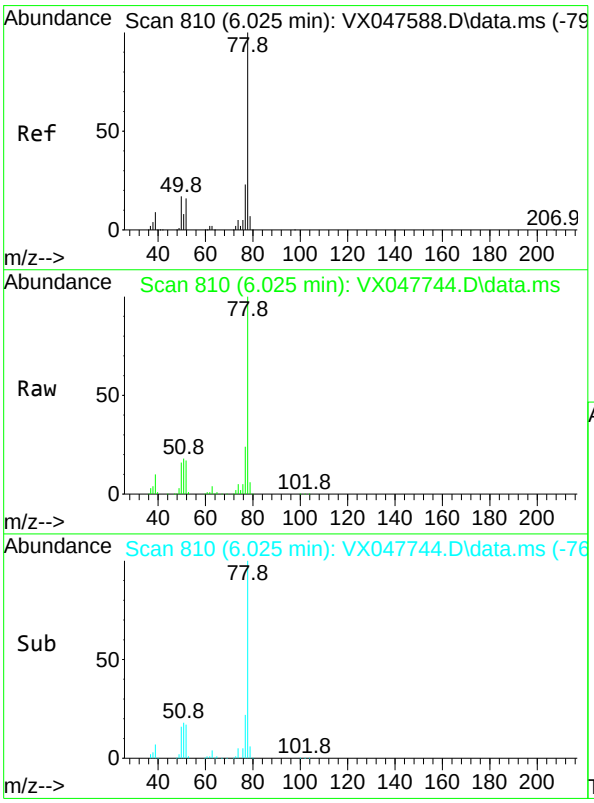
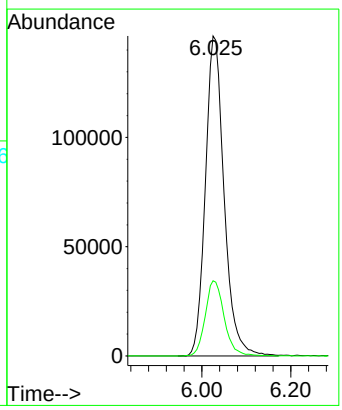
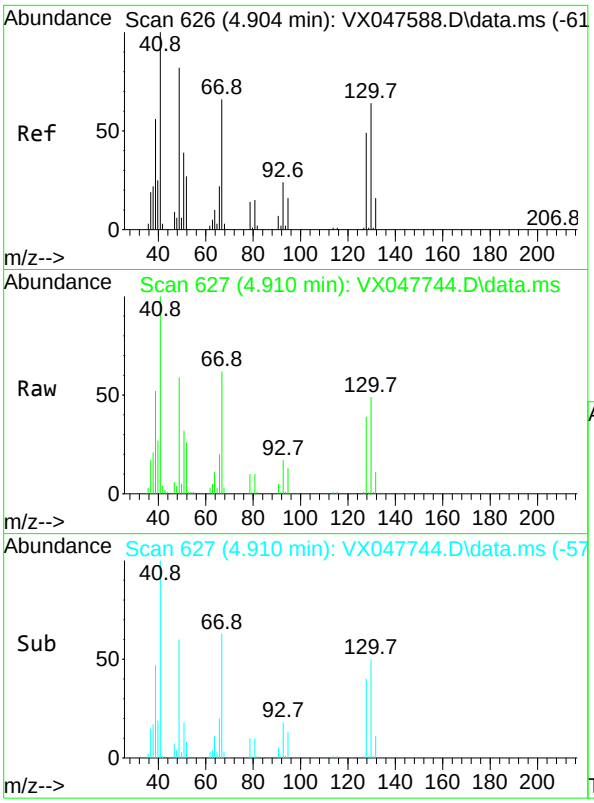


#40
Benzene
Concen: 53.282 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 78 Resp: 428760

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

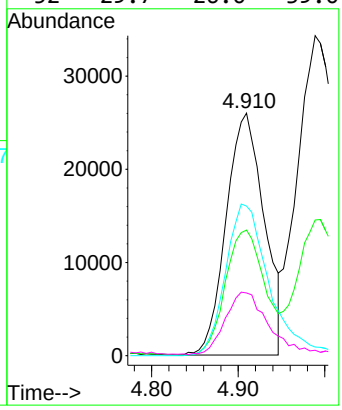




#41
Methacrylonitrile
Concen: 54.104 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 7923

Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.3	64.9
67	71.6	58.6	87.8
52	29.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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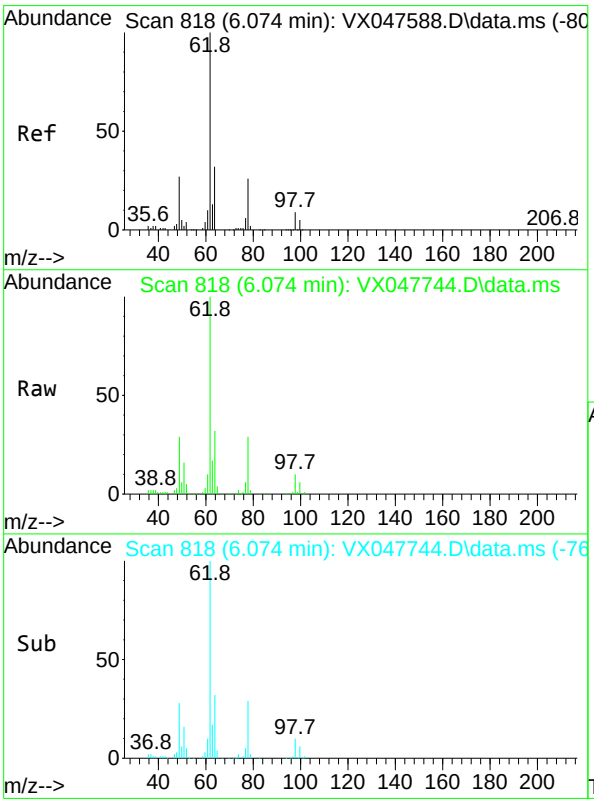
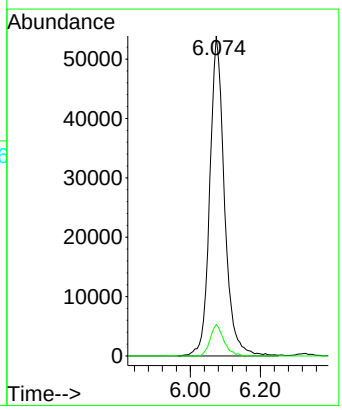
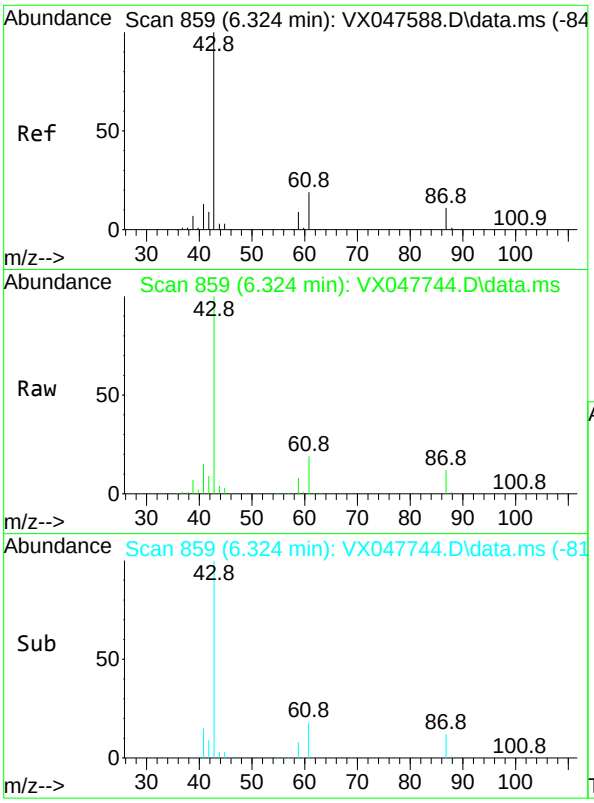


#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 62 Resp: 157471

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0

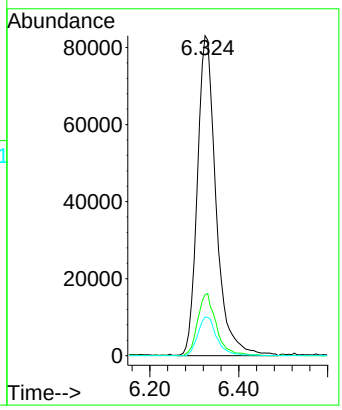




#43
Isopropyl Acetate
Concen: 52.327 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 24345

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.2	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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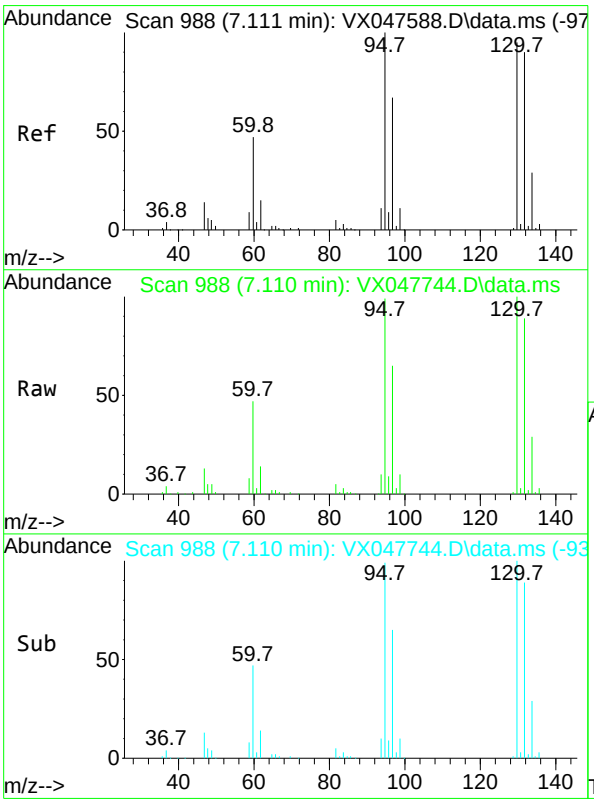
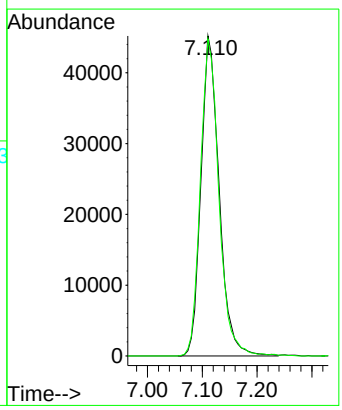
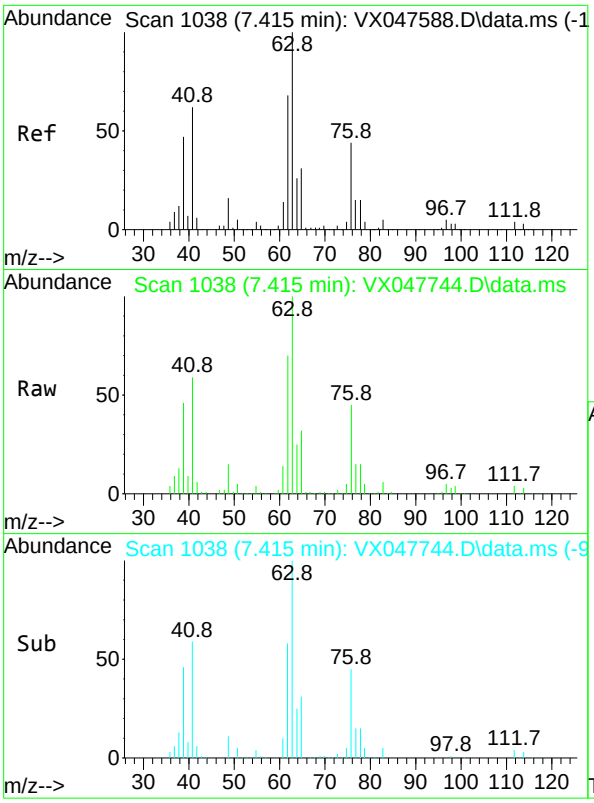


#44
Trichloroethene
Concen: 53.576 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:130 Resp: 104230

Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	210.8

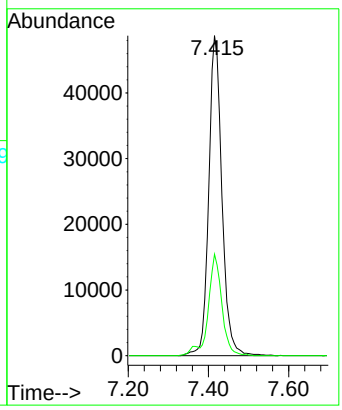




#45
1,2-Dichloropropane
Concen: 53.818 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 11089

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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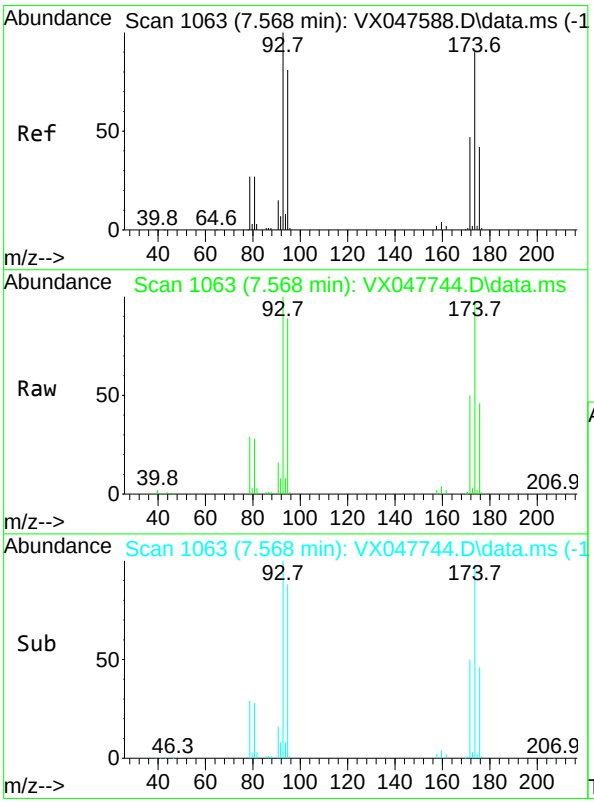
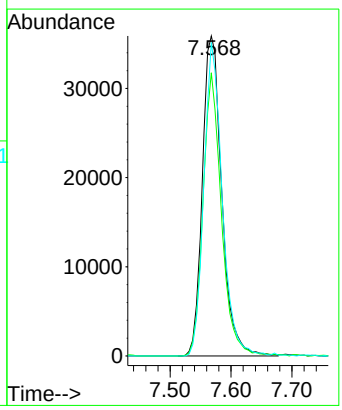
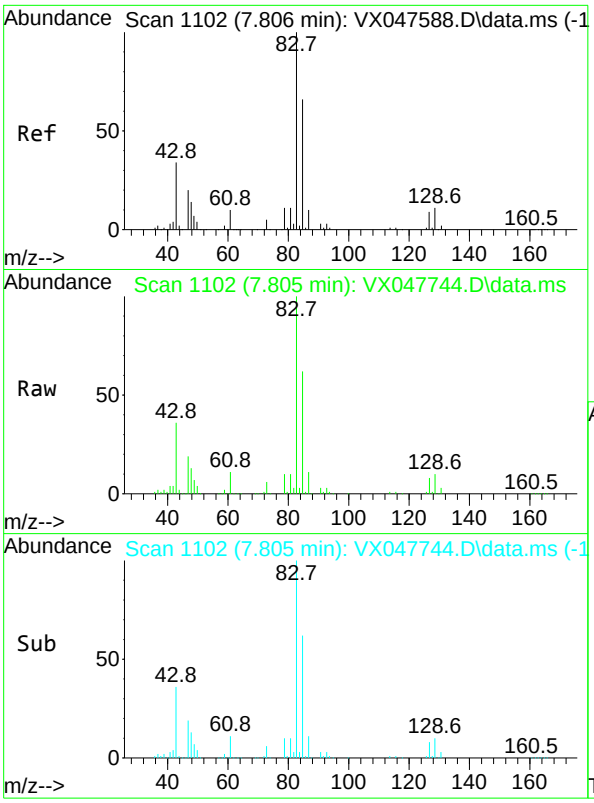


#46
Dibromomethane
Concen: 53.104 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 93 Resp: 79627

Ion	Ratio	Lower	Upper
93	100		
95	83.6	65.0	97.6
174	92.5	71.6	107.4

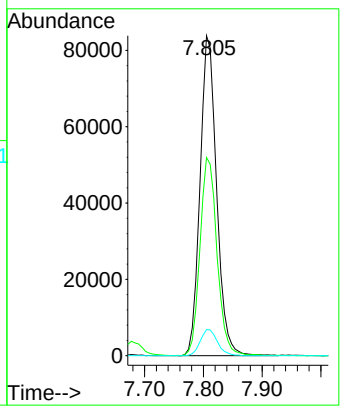




#47
Bromodichloromethane
Concen: 53.077 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 16423

Ion	Ratio	Lower	Upper
83	100		
85	61.8	52.5	78.7
127	8.1	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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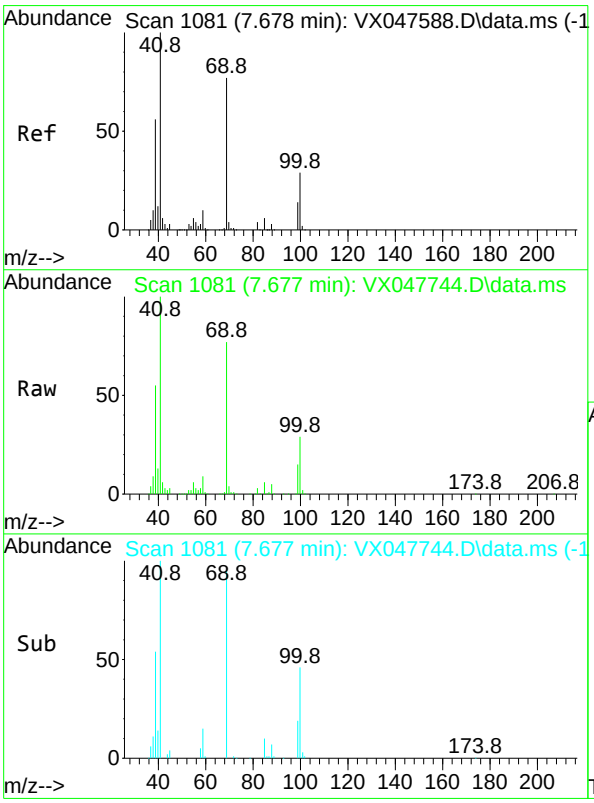
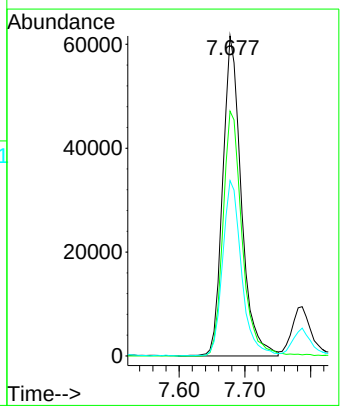
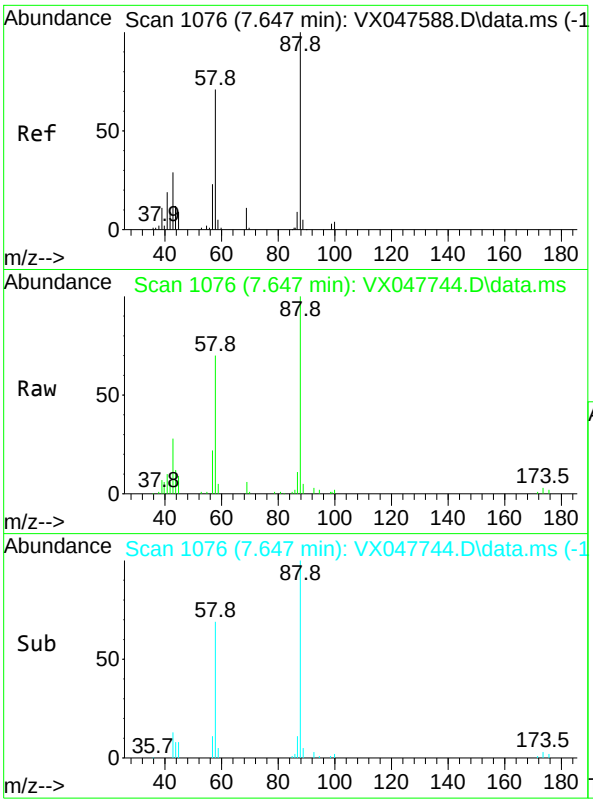


#48
Methyl methacrylate
Concen: 52.283 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 121164

Ion	Ratio	Lower	Upper
41	100		
69	78.9	61.4	92.2
39	55.7	45.8	68.6

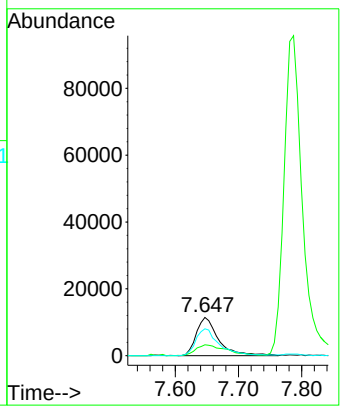




#49
1,4-Dioxane
Concen: 1196.046 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 88 Resp: 2801

Ion	Ratio	Lower	Upper
88	100		
43	39.5	30.2	45.2
58	74.0	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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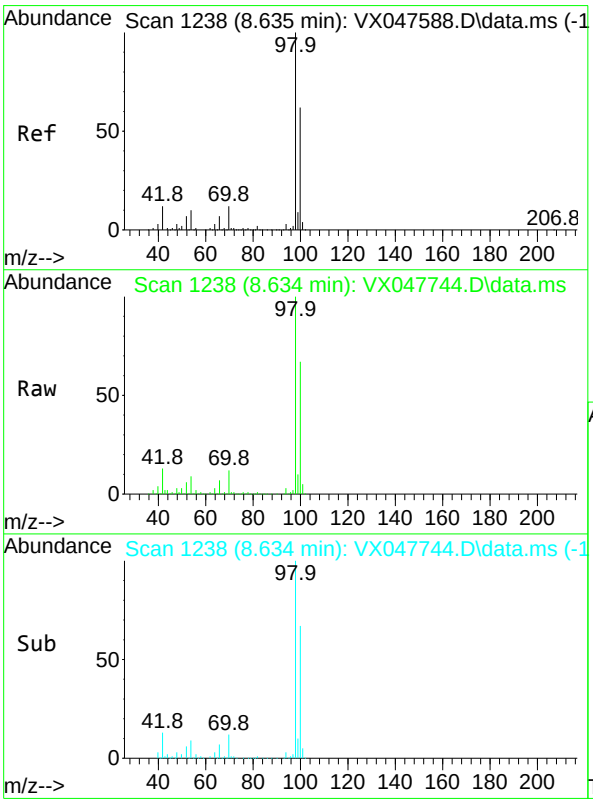
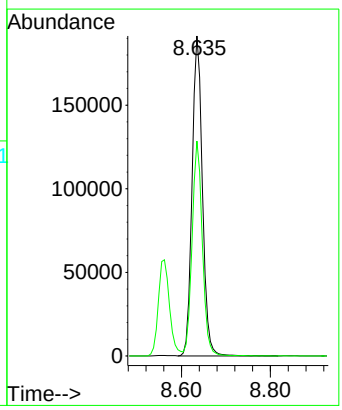
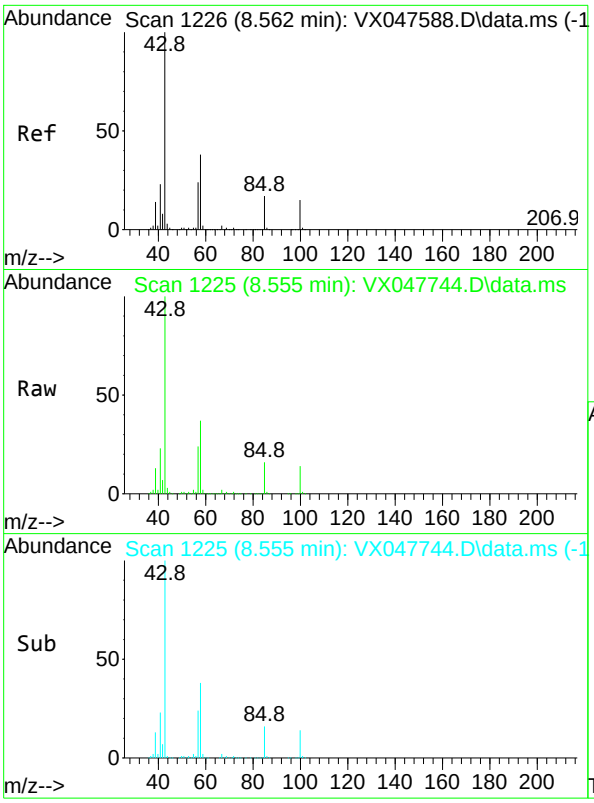


#50
Toluene-d8
Concen: 49.087 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 98 Resp: 307967

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4

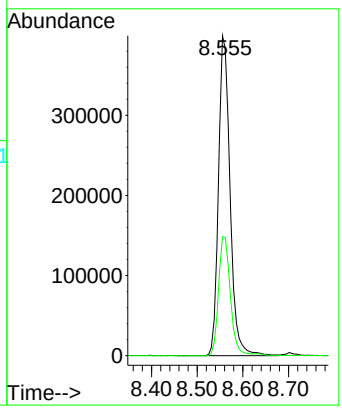




#51
4-Methyl-2-Pentanone
Concen: 272.809 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 70372

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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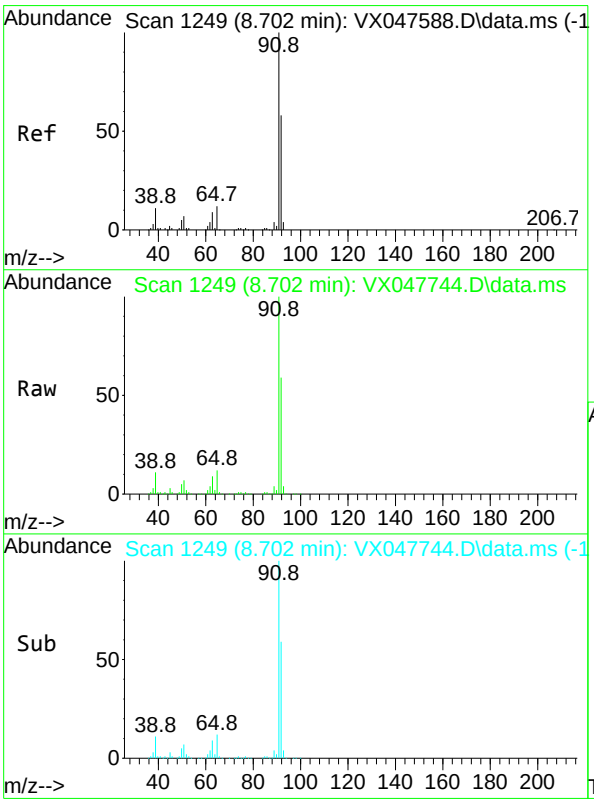
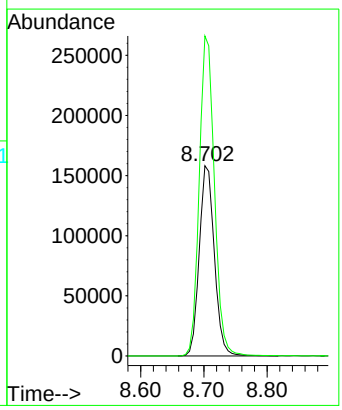
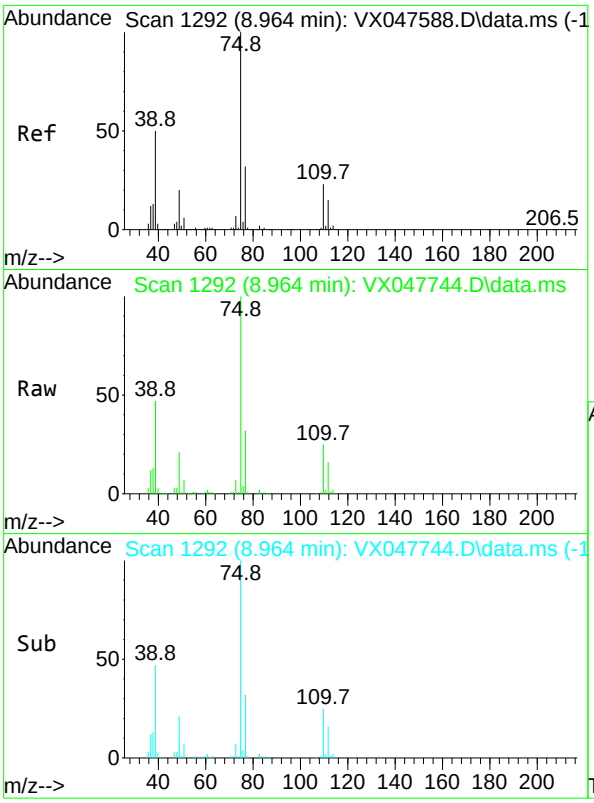


#52
Toluene
Concen: 53.113 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 92 Resp: 263320

Ion	Ratio	Lower	Upper
92	100		
91	169.0	137.1	205.7

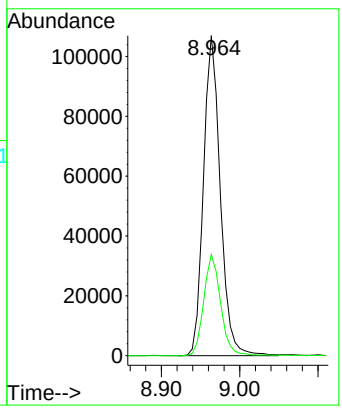




#53
t-1,3-Dichloropropene
Concen: 50.499 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 15938

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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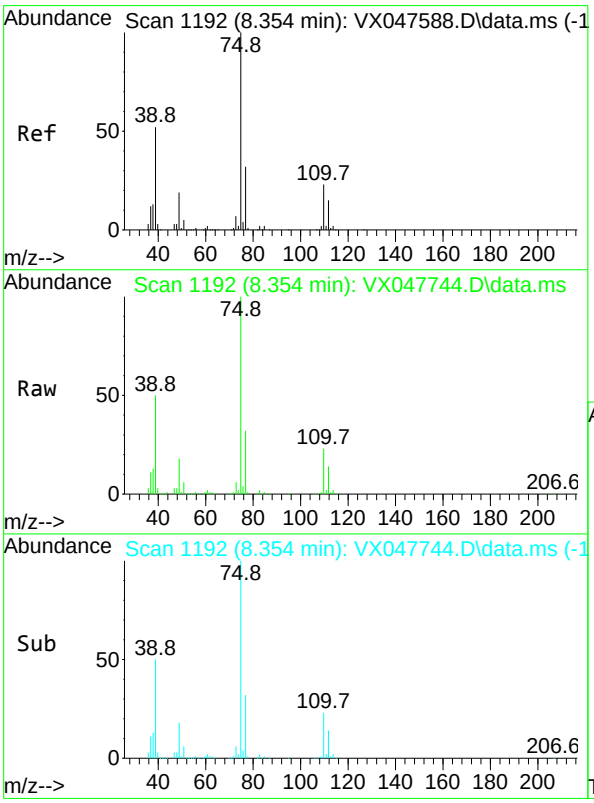
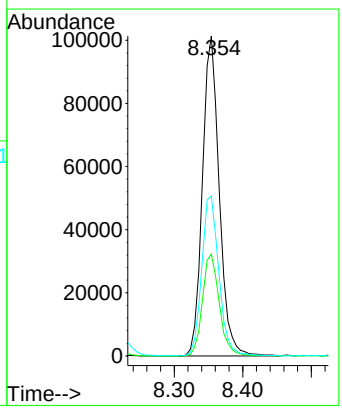
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

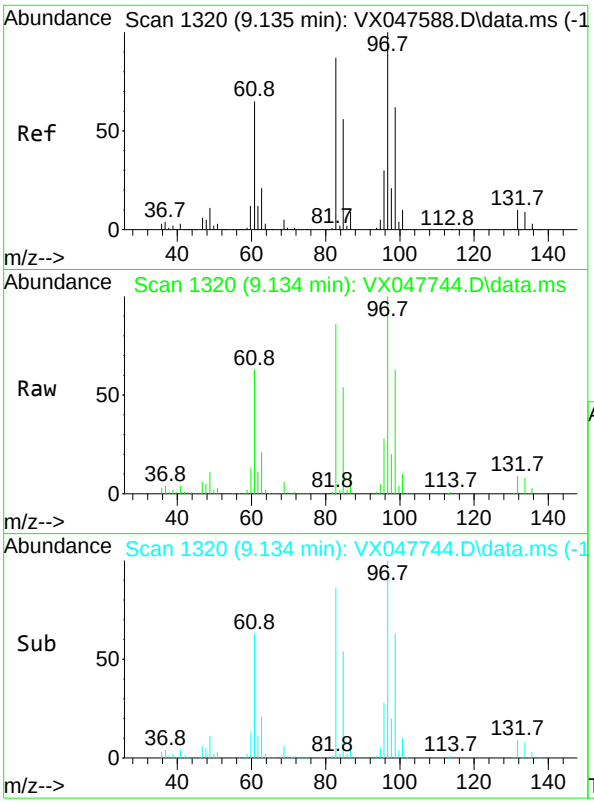


#54
cis-1,3-Dichloropropene
Concen: 51.421 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 173466

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.8	38.6
39	49.8	41.4	62.2

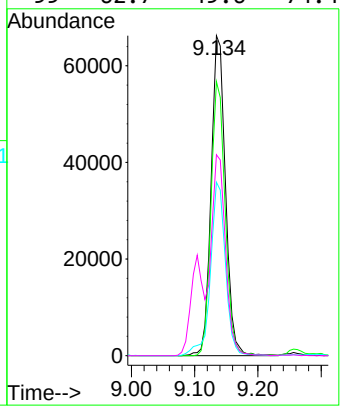




#55
1,1,2-Trichloroethane
Concen: 54.692 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 97 Resp: 10455

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.6	104.4
85	54.2	45.0	67.6
99	62.7	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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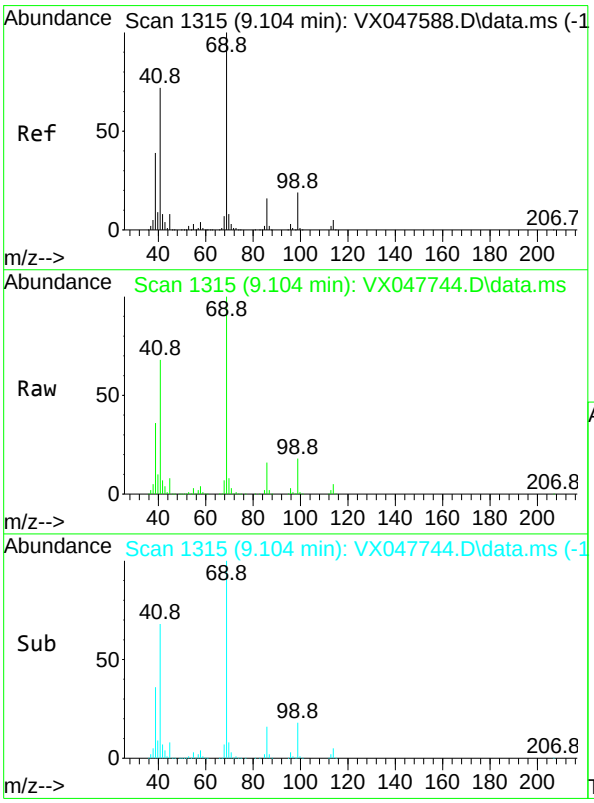
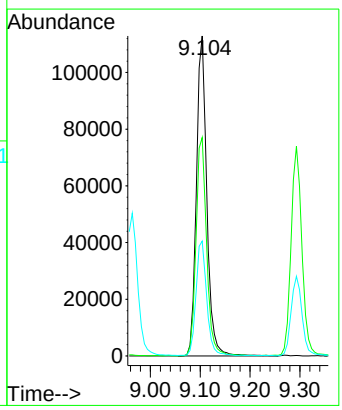
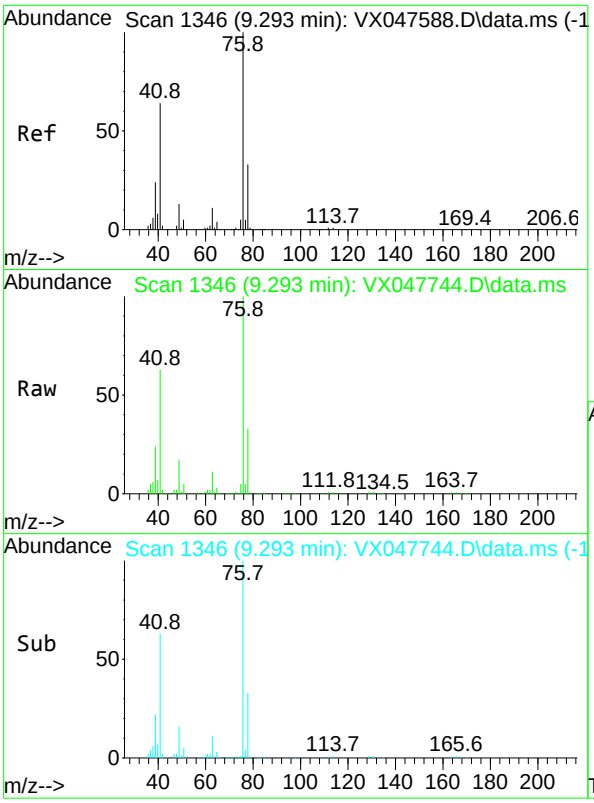


#56
Ethyl methacrylate
Concen: 54.448 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 69 Resp: 163467

Ion	Ratio	Lower	Upper
69	100		
41	69.6	58.6	87.8
39	36.6	31.5	47.3

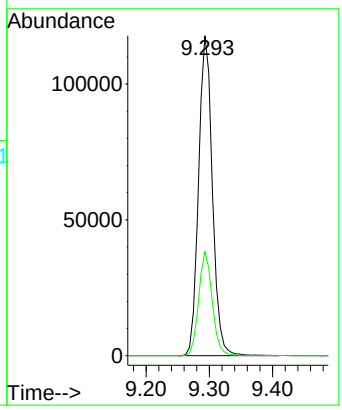




#57
1,3-Dichloropropane
Concen: 54.560 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 76 Resp: 17917

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
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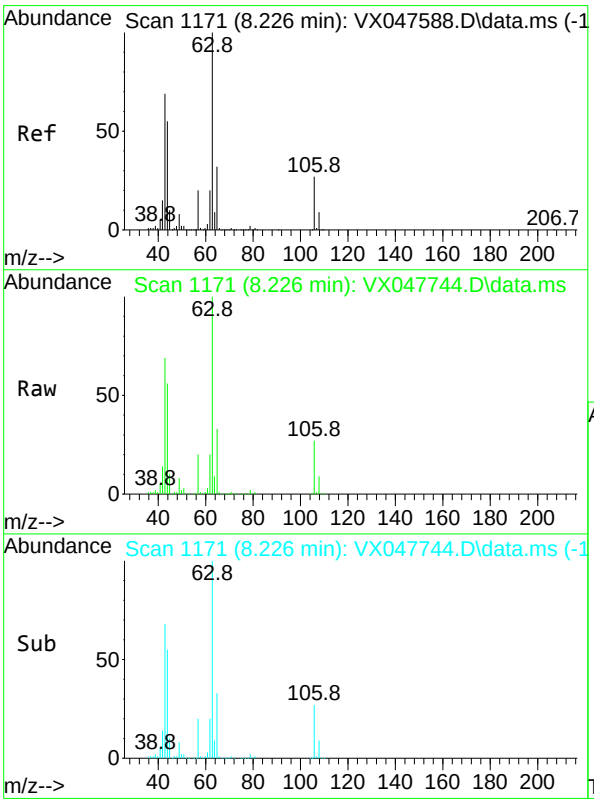
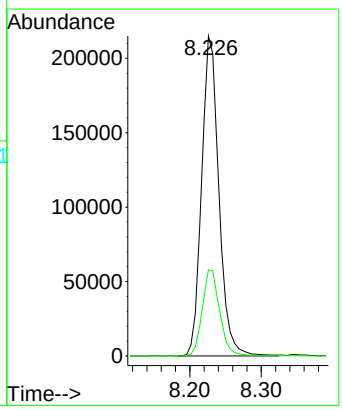
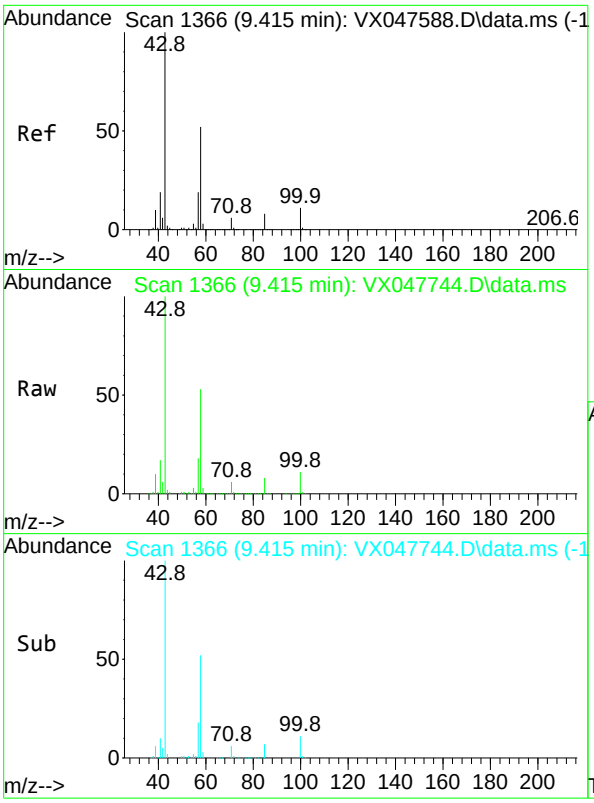


#58
2-Chloroethyl Vinyl ether
Concen: 251.172 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 360369

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.9	32.9

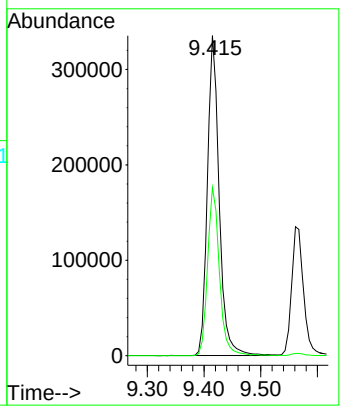




#59
2-Hexanone
Concen: 260.895 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 48334

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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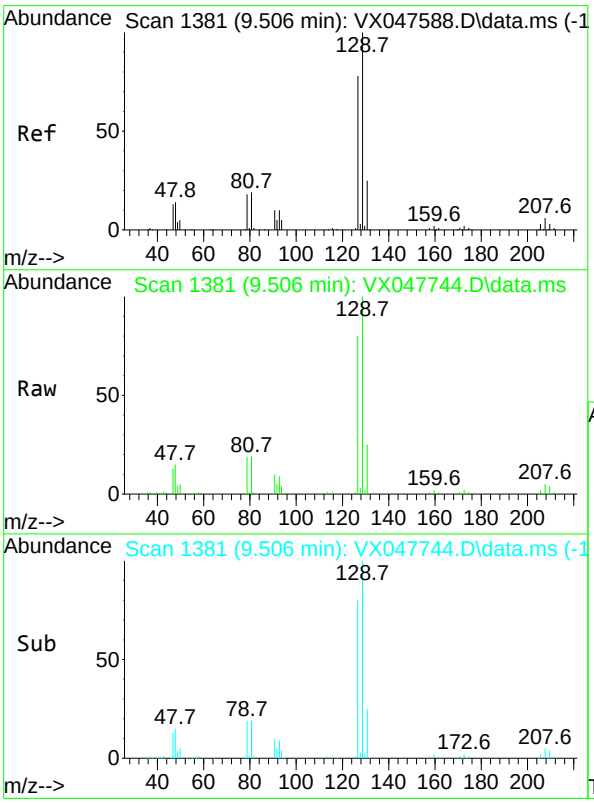
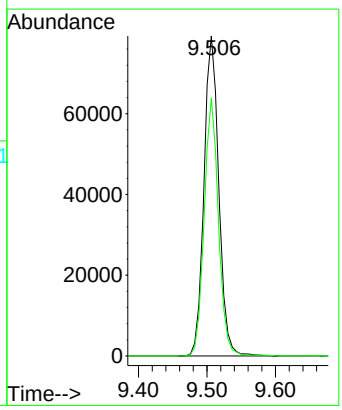
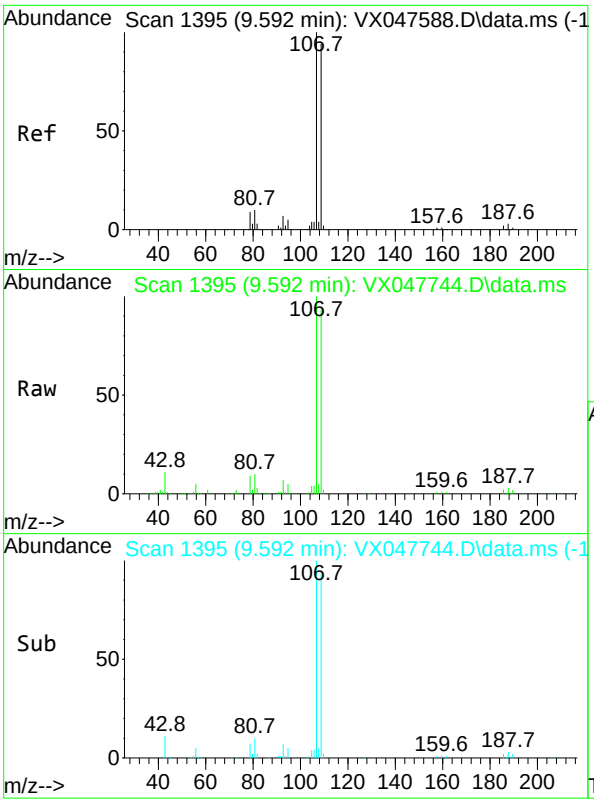


#60
Dibromochloromethane
Concen: 54.078 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:129 Resp: 119117

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.4	115.2

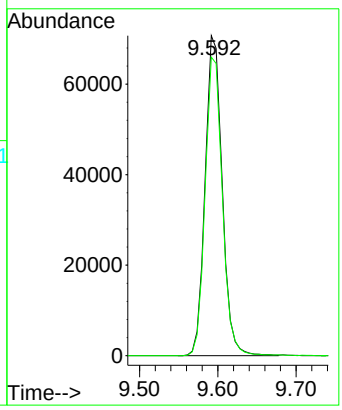




#61
1,2-Dibromoethane
Concen: 54.937 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:107 Resp: 10697

Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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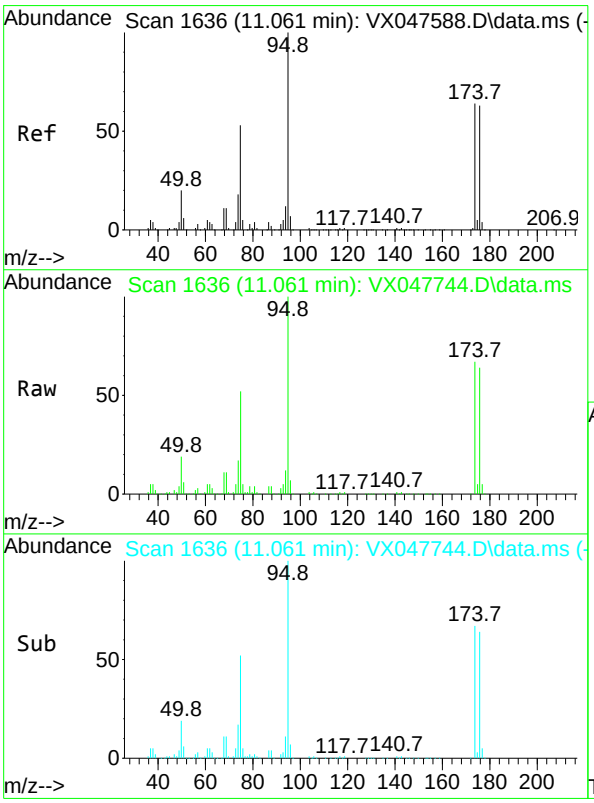
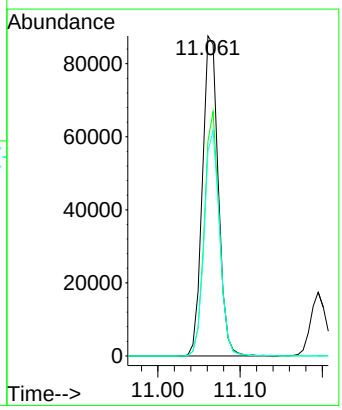
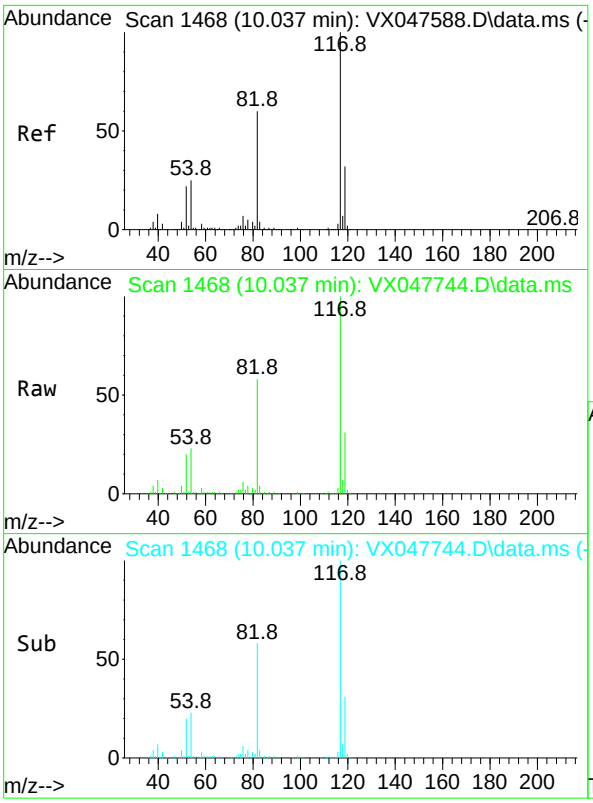


#62
4-Bromofluorobenzene
Concen: 49.307 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 95 Resp: 117402

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	141.6
176	69.0	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:117 Resp: 24330

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	31.5	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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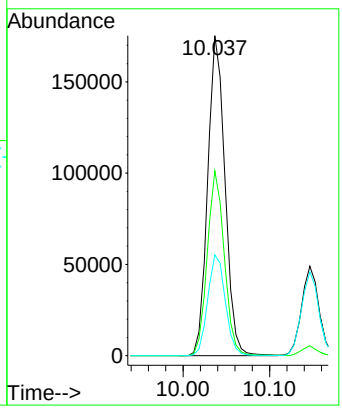
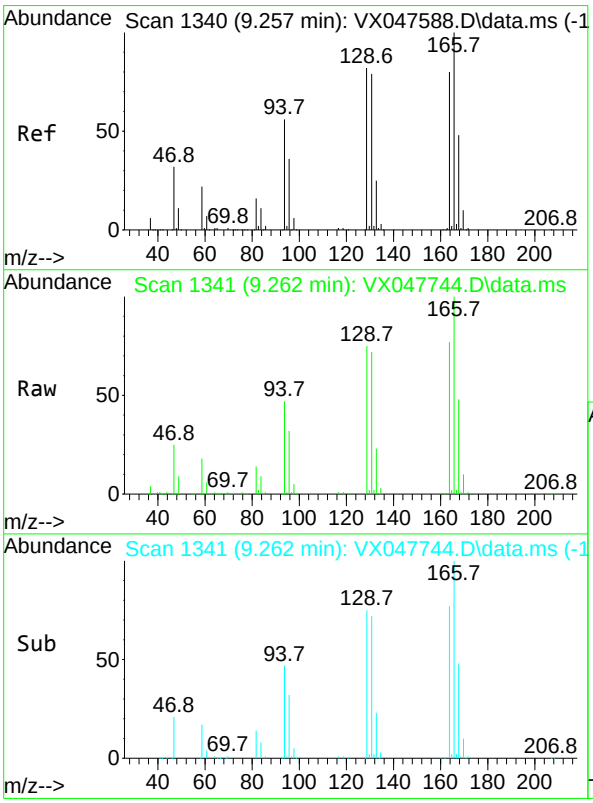
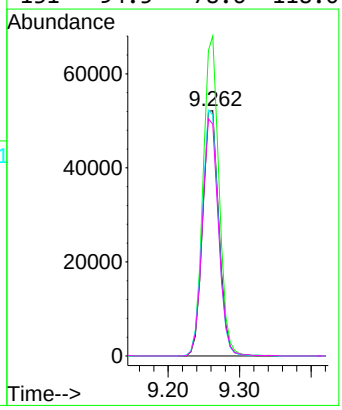


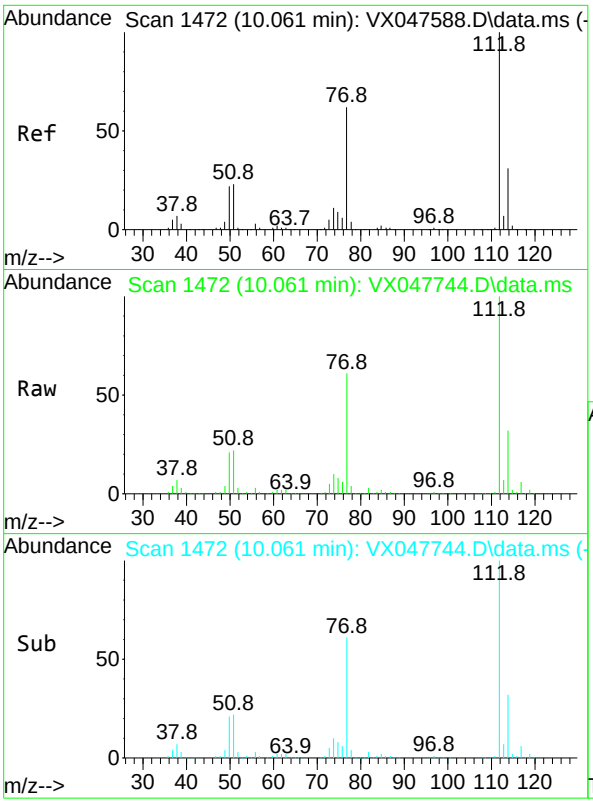


#64
Tetrachloroethene
Concen: 51.765 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:164 Resp: 82104

Ion	Ratio	Lower	Upper
164	100		
166	130.4	100.2	150.2
129	98.1	81.8	122.6
131	94.5	78.6	118.0

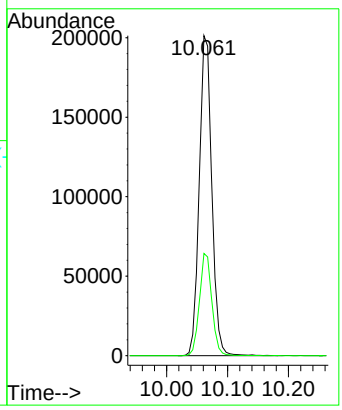




#65
Chlorobenzene
Concen: 52.159 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:112 Resp: 28830

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
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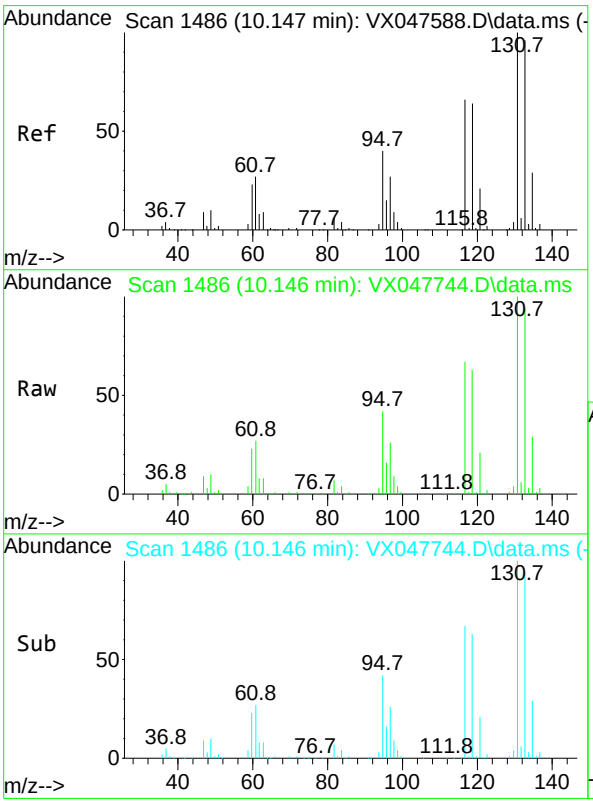
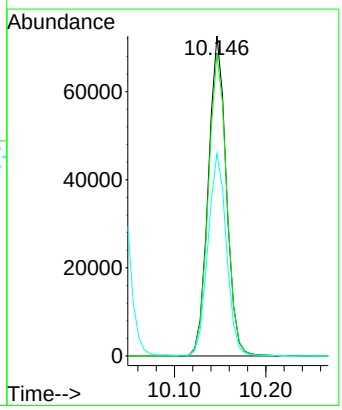
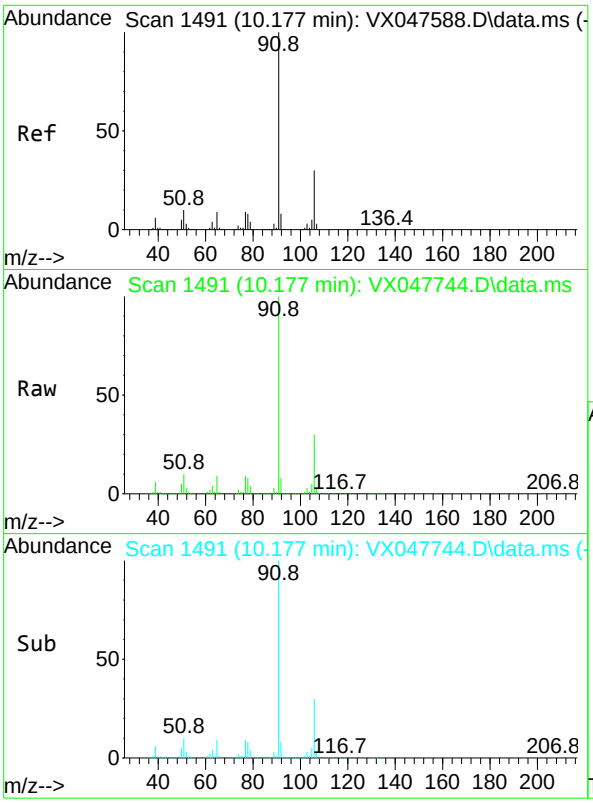


#66
1,1,1,2-Tetrachloroethane
Concen: 51.810 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:131 Resp: 98820

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	65.2	32.0	96.0

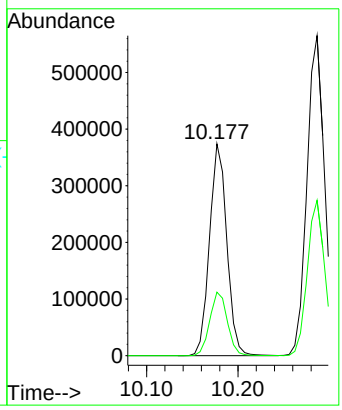




#67
Ethyl Benzene
Concen: 51.527 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 49142

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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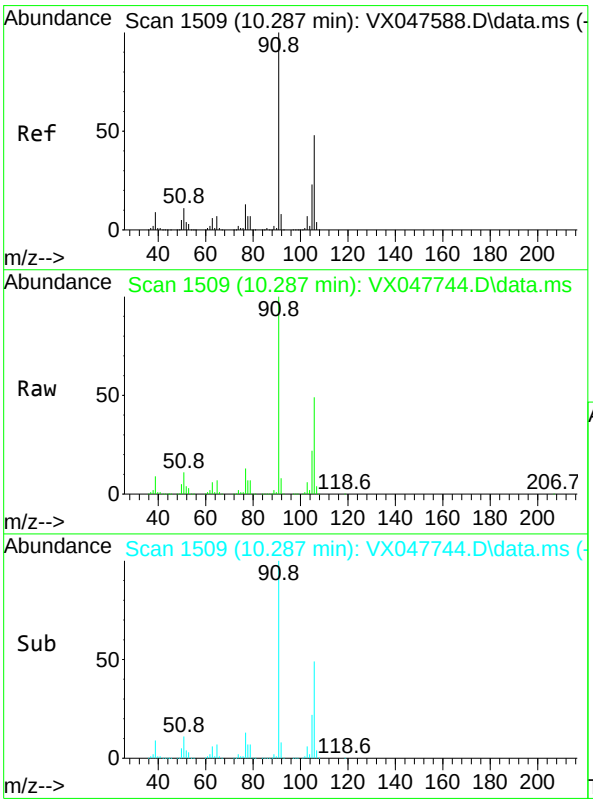
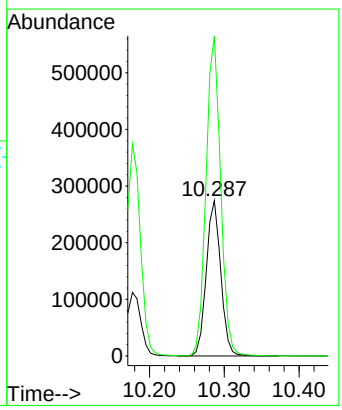
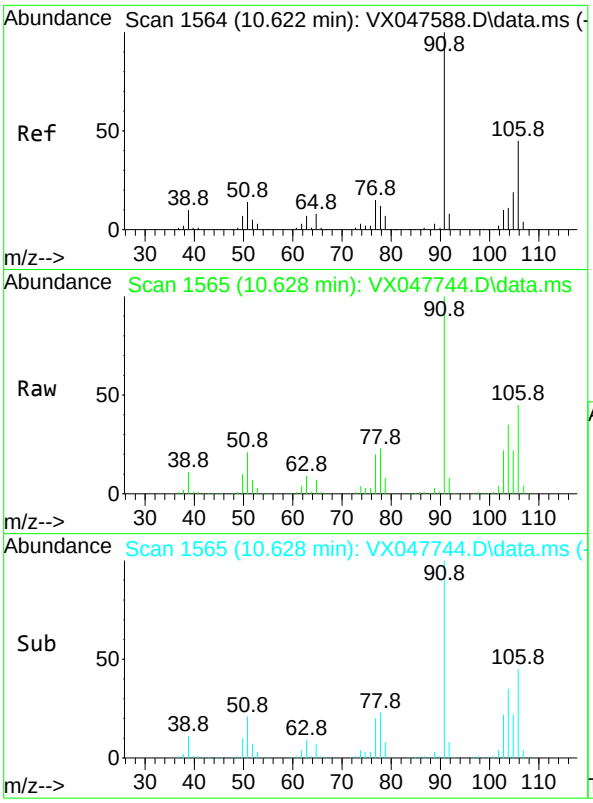


#68
m/p-Xylenes
Concen: 103.518 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:106 Resp: 367469

Ion	Ratio	Lower	Upper
106	100		
91	208.6	167.8	251.8

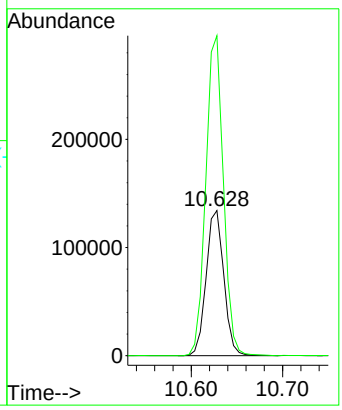




#69
o-Xylene
Concen: 52.511 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:106 Resp: 18029

Ion	Ratio	Lower	Upper
106	100		
91	219.4	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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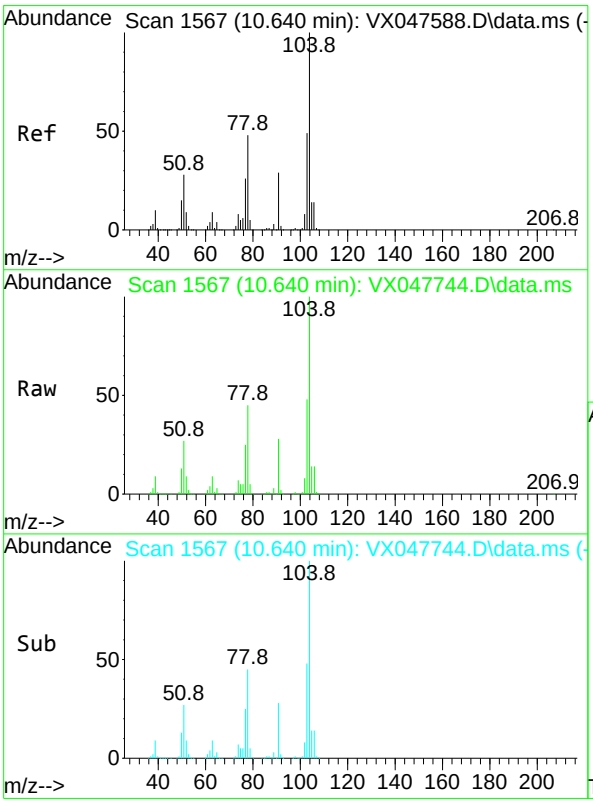
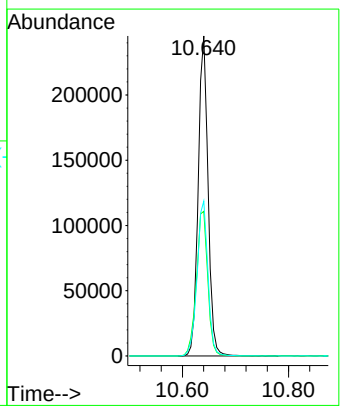
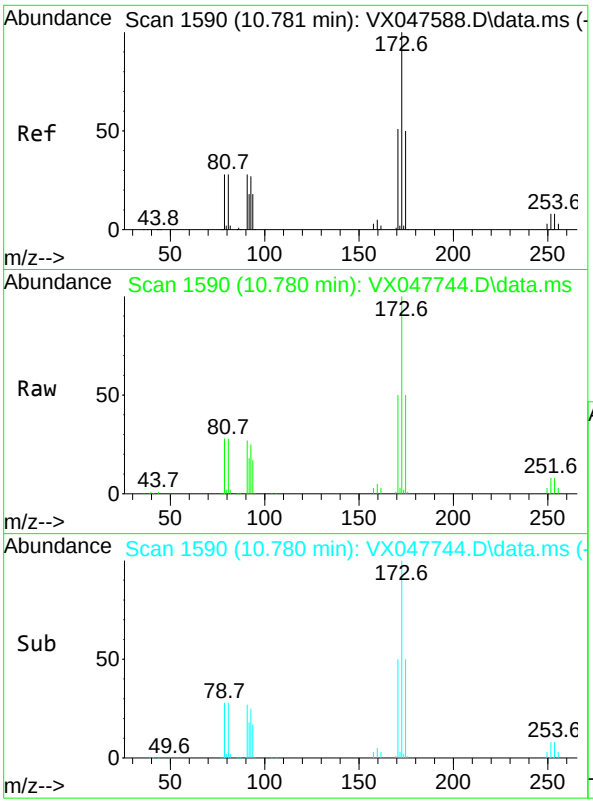


#70
Styrene
Concen: 52.779 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:104 Resp: 317529

Ion	Ratio	Lower	Upper
104	100		
78	52.2	43.1	64.7
103	53.6	43.1	64.7

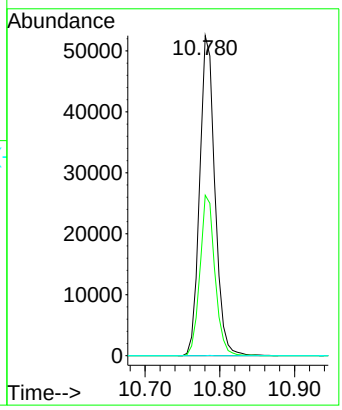




#71
Bromoform
Concen: 52.097 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:173 Resp: 7419

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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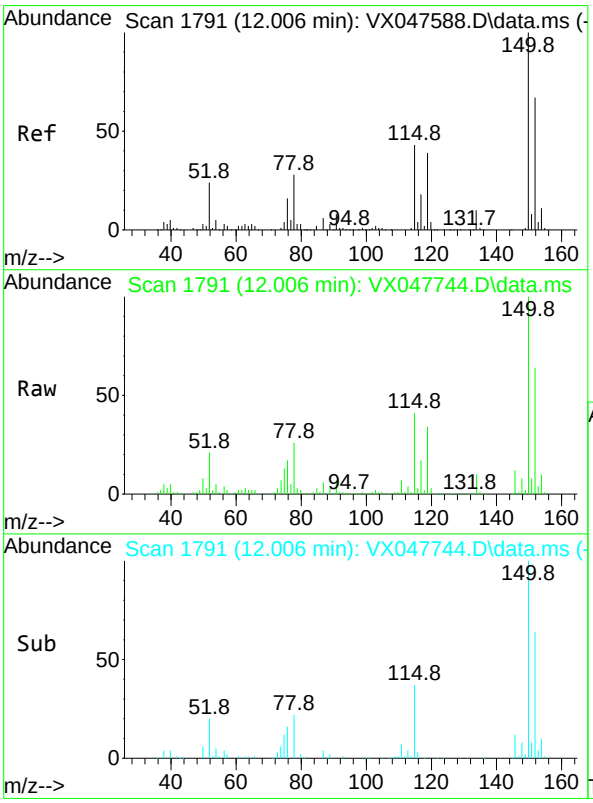
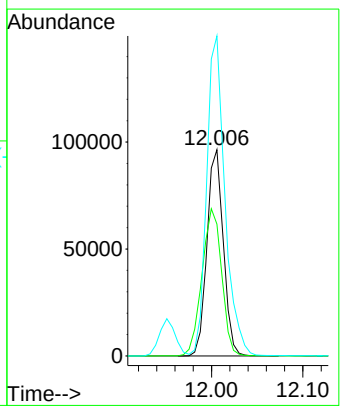
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

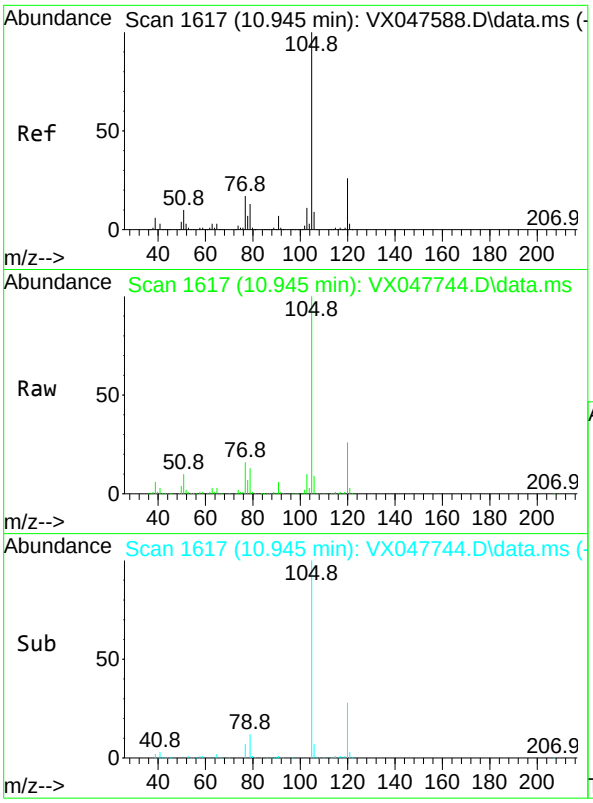


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:152 Resp: 119961

Ion	Ratio	Lower	Upper
152	100		
115	86.2	44.9	134.5
150	173.4	0.0	352.0

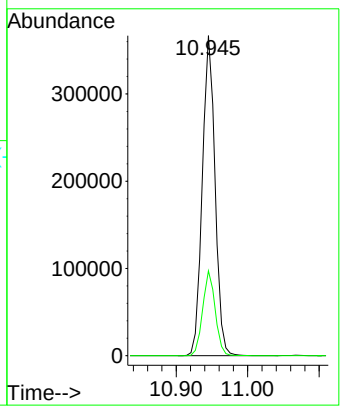




#73
Isopropylbenzene
Concen: 49.722 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 45347

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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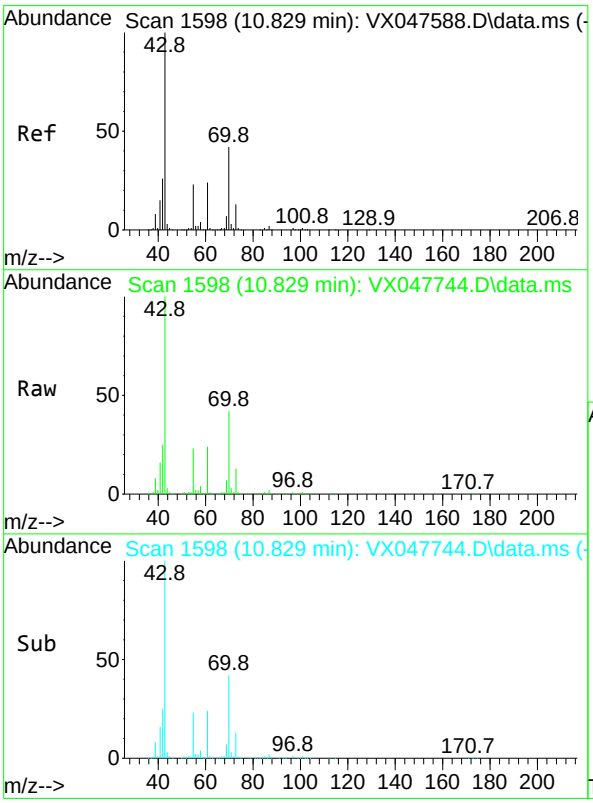
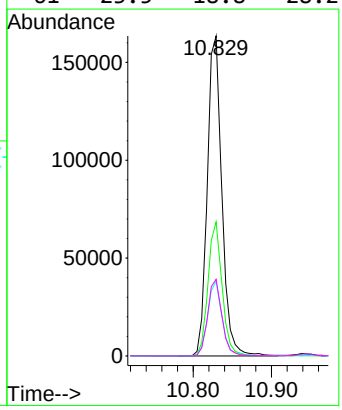
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

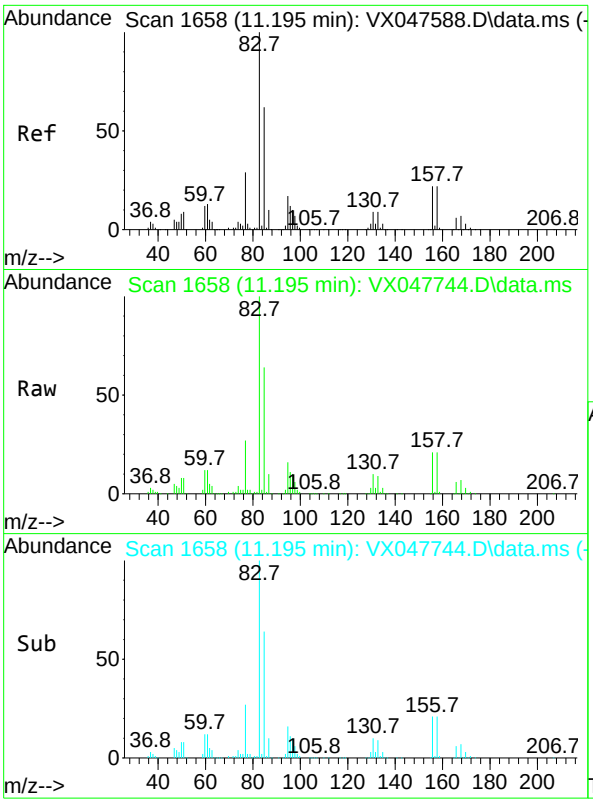


#74
N-amyl acetate
Concen: 50.685 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 210798

Ion	Ratio	Lower	Upper
43	100		
70	40.7	32.0	48.0
55	23.3	18.9	28.3
61	23.5	18.8	28.2

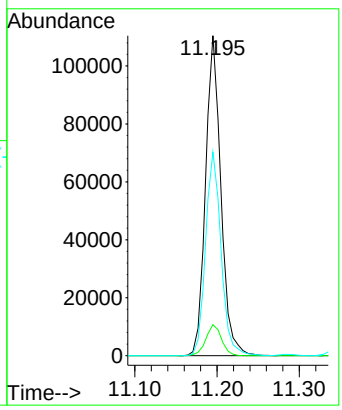




#75
1,1,2,2-Tetrachloroethane
Concen: 51.892 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 14318

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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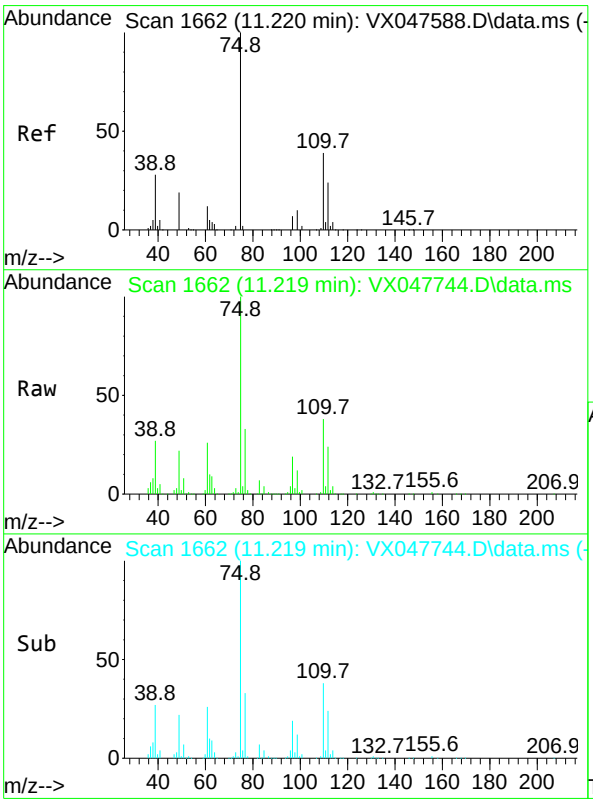
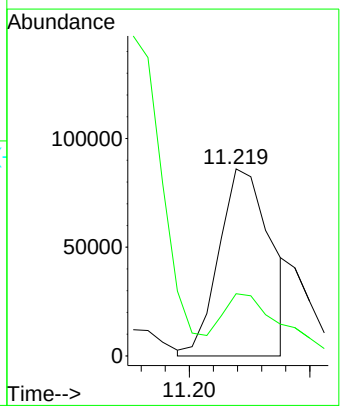
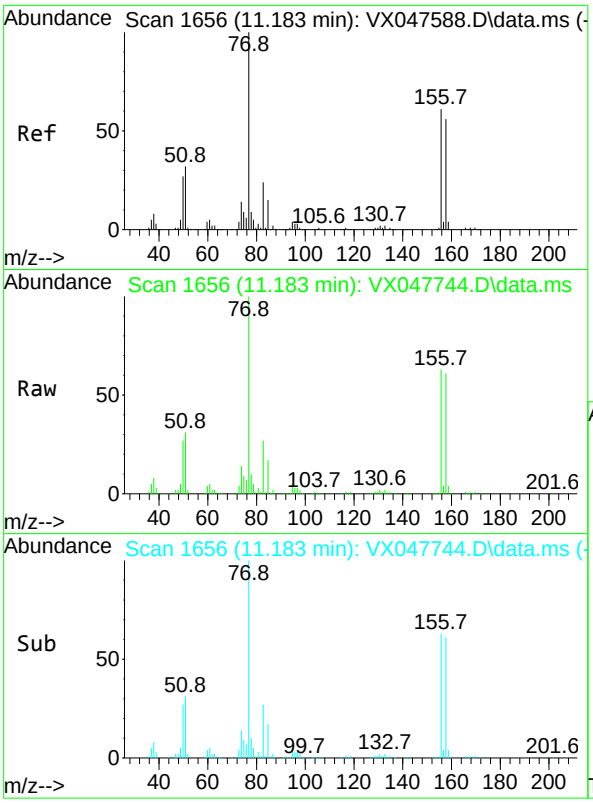


#76
1,2,3-Trichloropropane
Concen: 52.639 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 127852

Ion	Ratio	Lower	Upper
75	100		
77	38.3	18.8	56.4

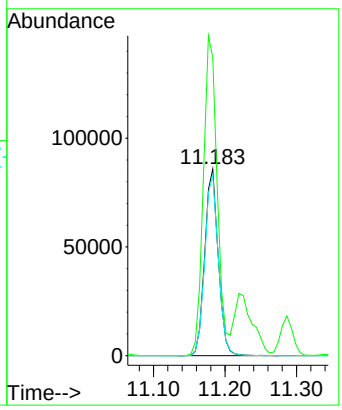




#77
Bromobenzene
Concen: 50.007 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:156 Resp: 11232

Ion	Ratio	Lower	Upper
156	100		
77	177.2	89.7	269.1
158	97.8	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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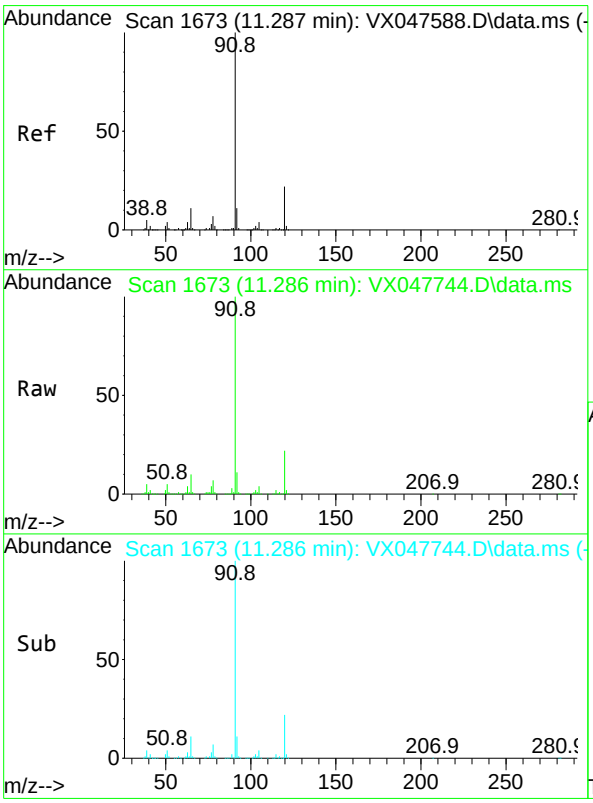
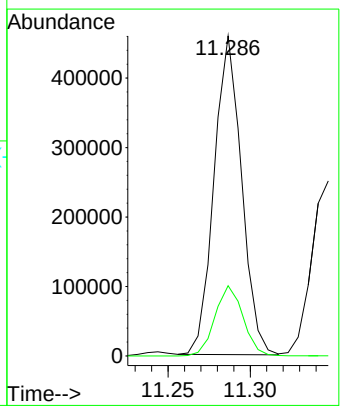
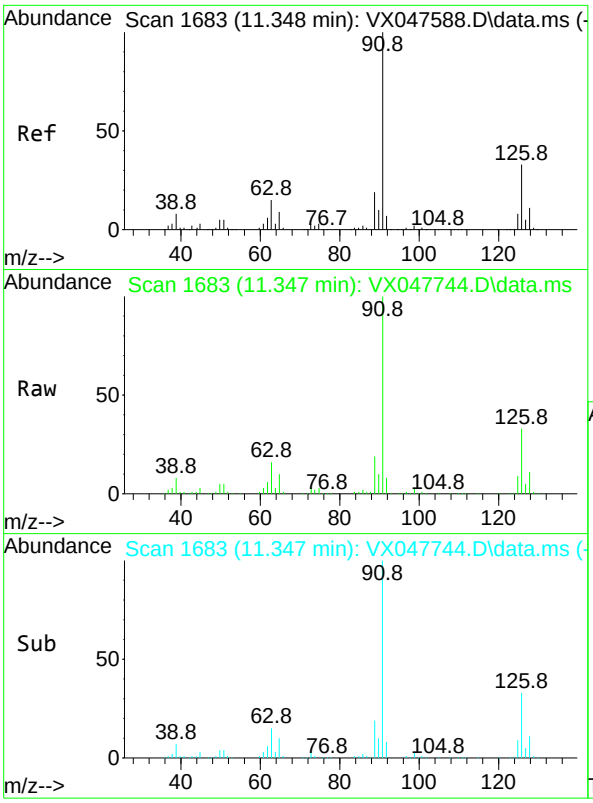


#78
n-propylbenzene
Concen: 49.483 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 533484

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1

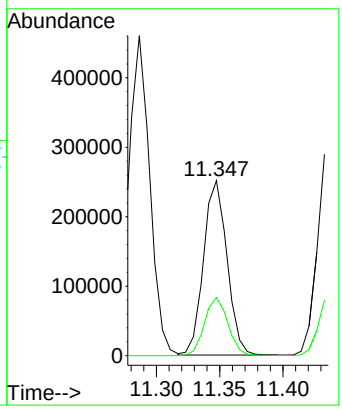




#79
2-Chlorotoluene
Concen: 49.069 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 32401

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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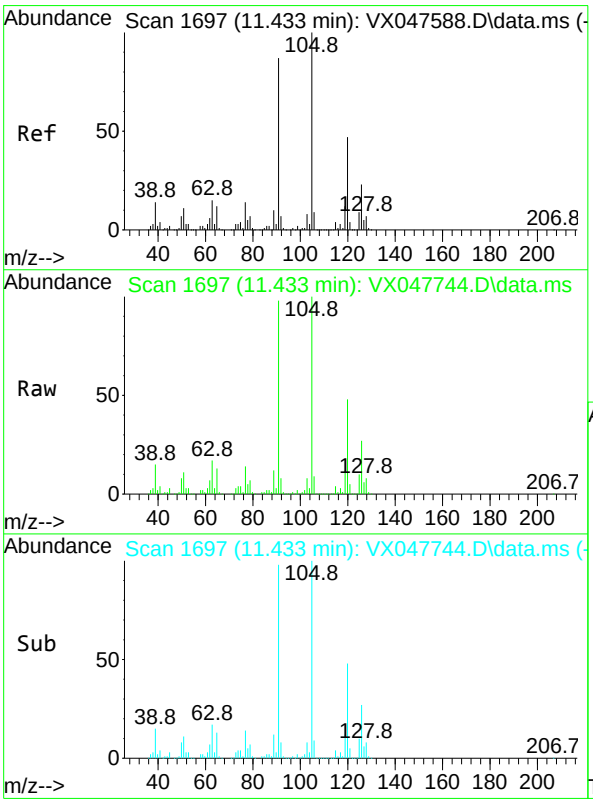
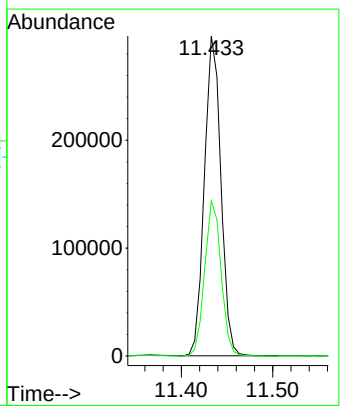
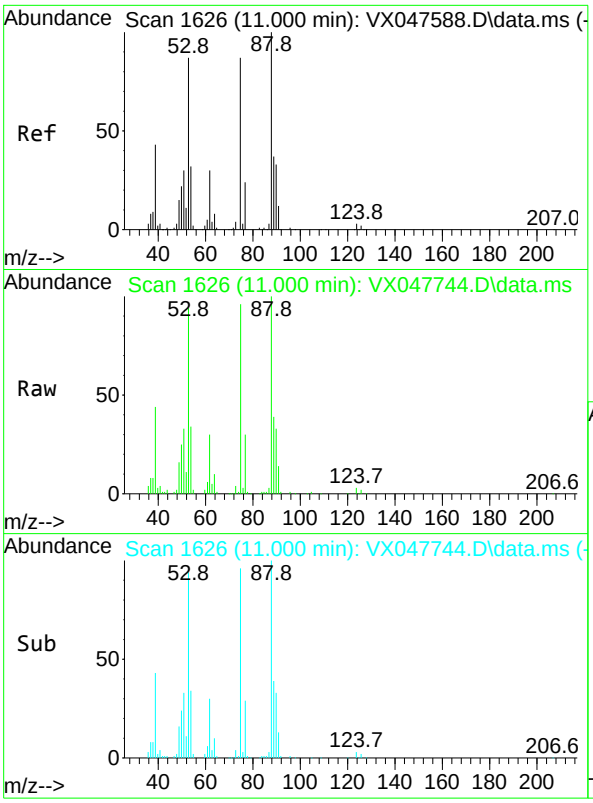


#80
1,3,5-Trimethylbenzene
Concen: 49.437 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 370433

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 46.433 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 4422

Ion	Ratio	Lower	Upper
75	100		
53	101.6	83.4	125.2
89	42.9	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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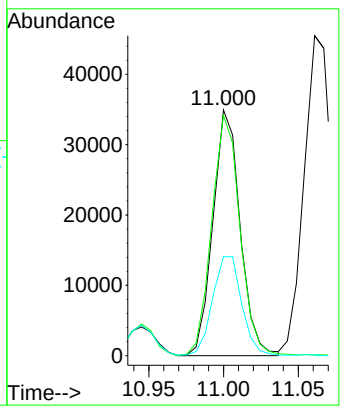
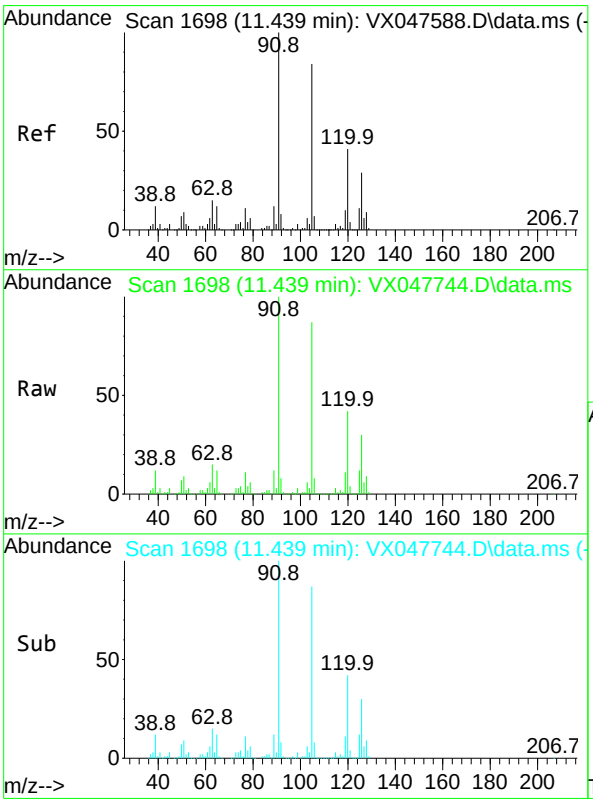
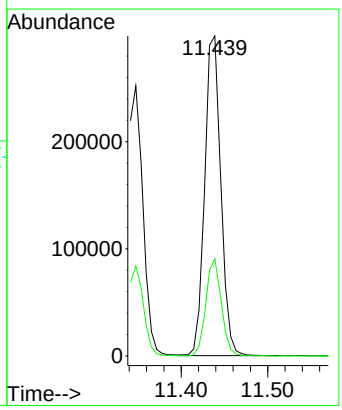


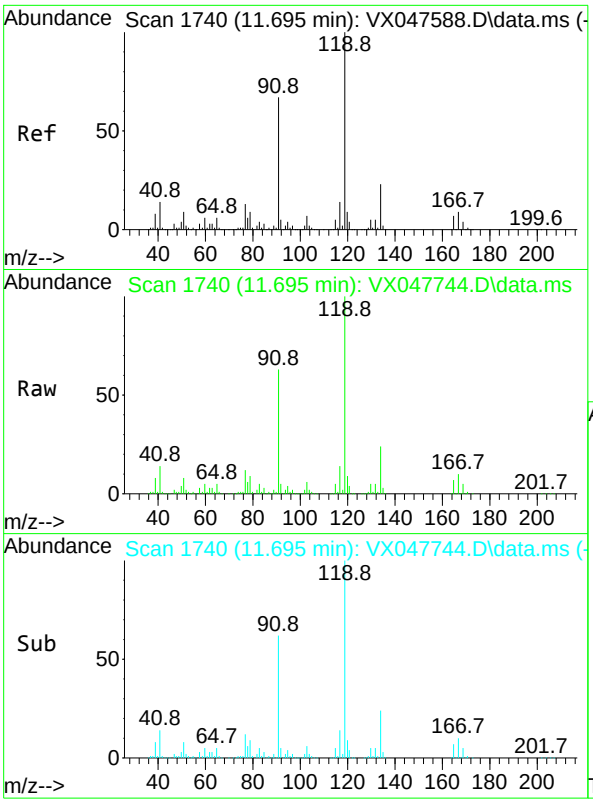


#82
4-Chlorotoluene
Concen: 49.610 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 386898

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.2	42.6

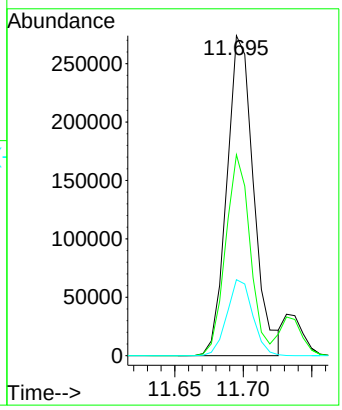




#83
tert-Butylbenzene
Concen: 48.704 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:119 Resp: 37358

Ion	Ratio	Lower	Upper
119	100		
91	57.7	29.6	88.8
134	22.8	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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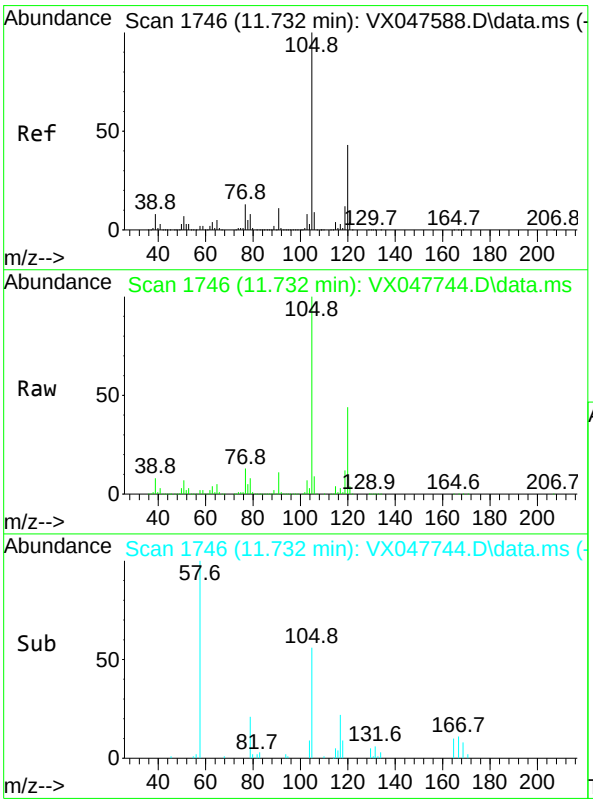
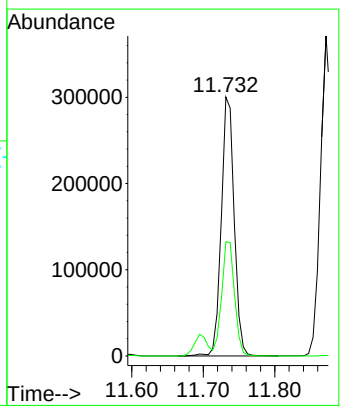
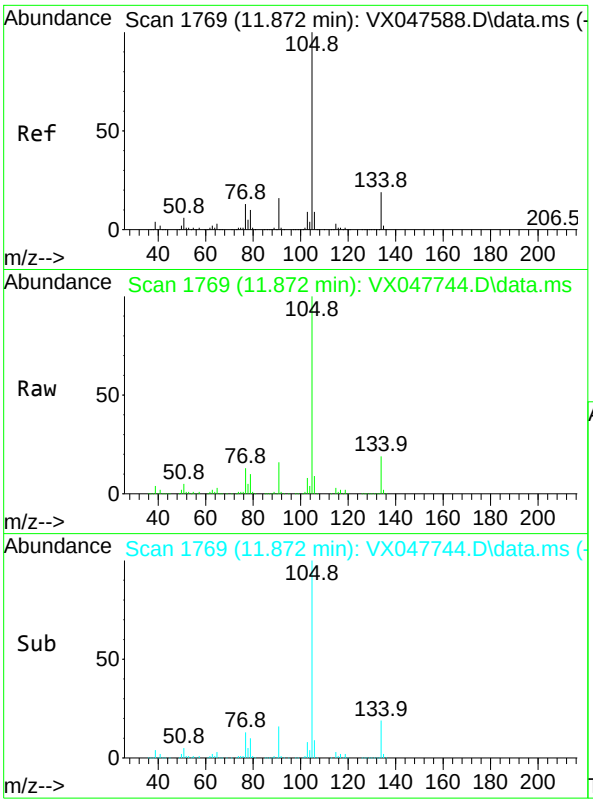


#84
1,2,4-Trimethylbenzene
Concen: 49.591 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 376730

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.1

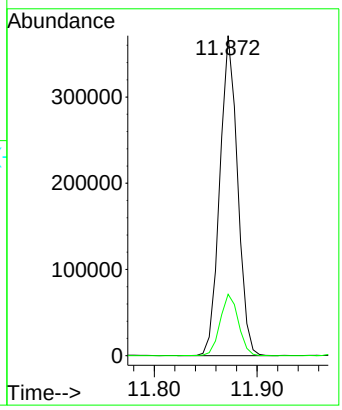




#85
sec-Butylbenzene
Concen: 48.878 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 44532

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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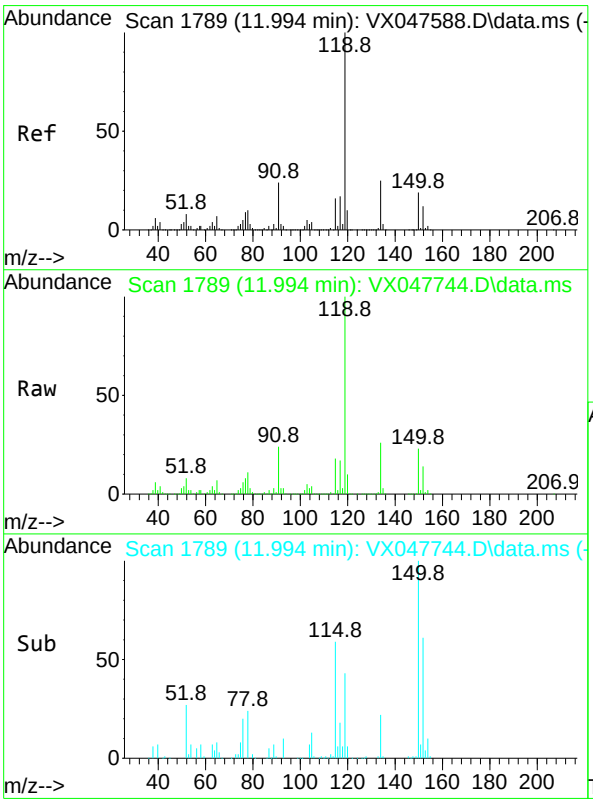
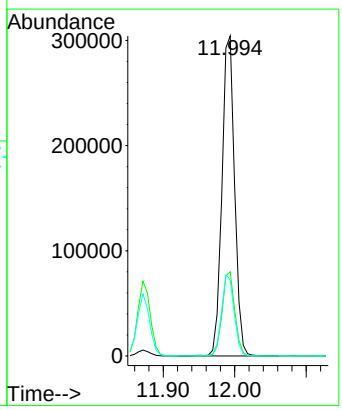
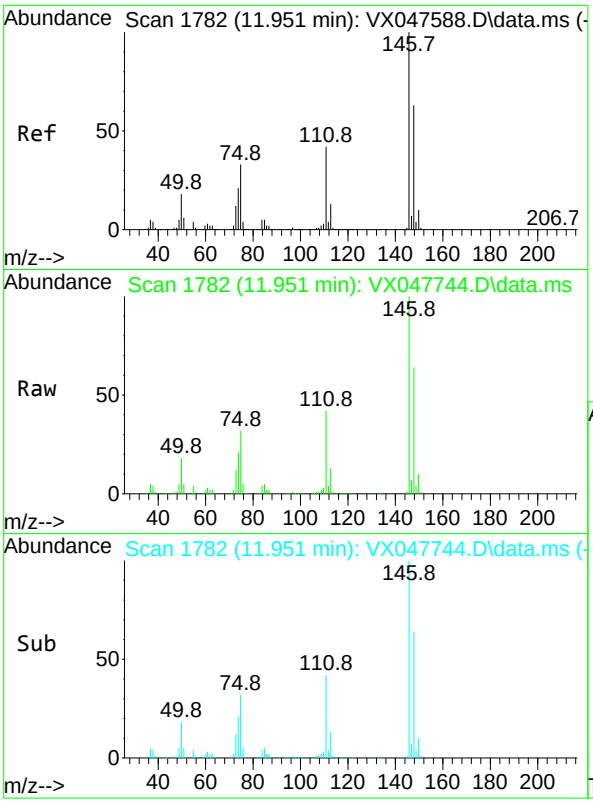


#86
p-Isopropyltoluene
Concen: 48.479 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:119 Resp: 373936

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	25.3	12.6	37.6

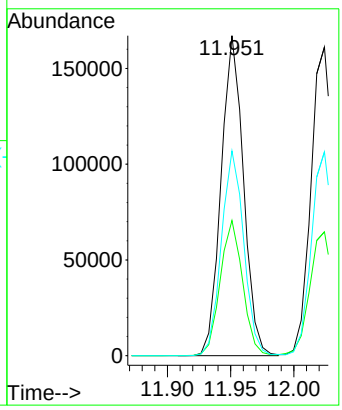




#87
1,3-Dichlorobenzene
Concen: 49.286 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:146 Resp: 20563

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	64.2	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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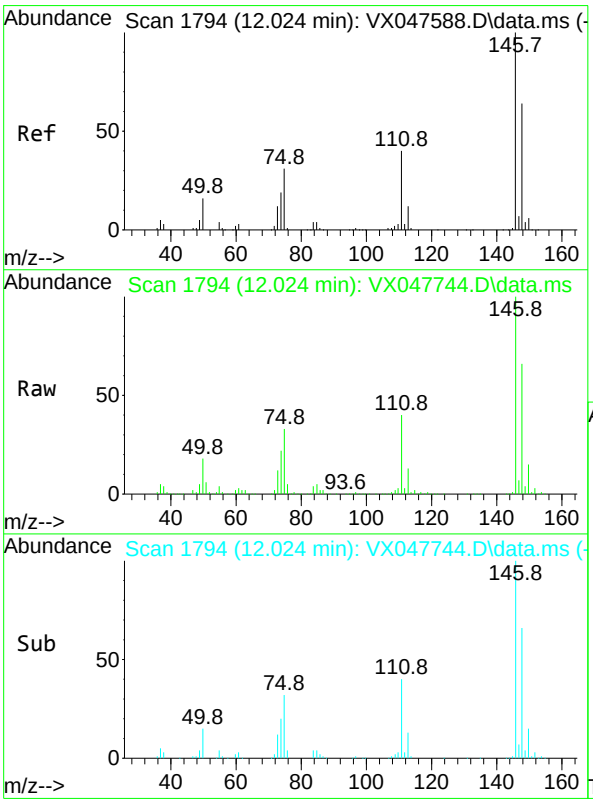
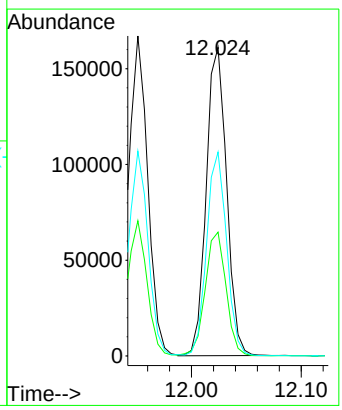
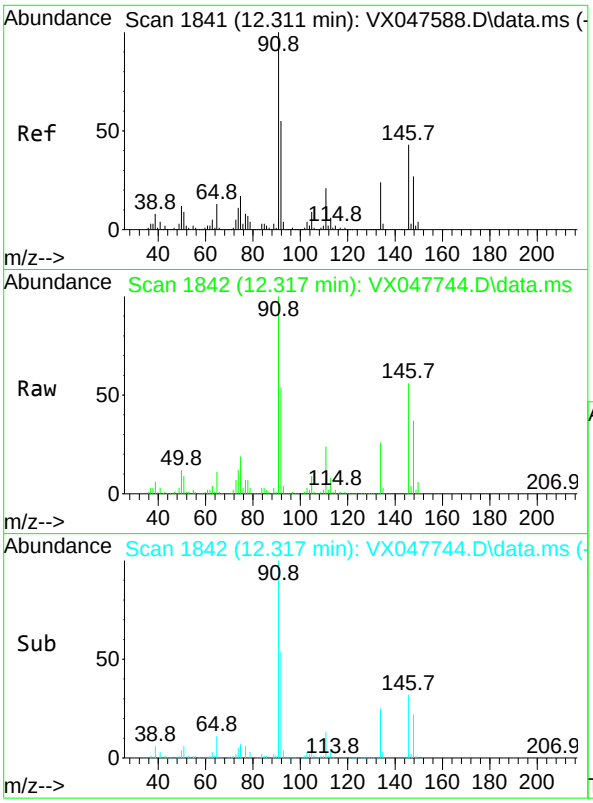


#88
1,4-Dichlorobenzene
Concen: 48.449 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:146 Resp: 207463

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.8	62.4
148	65.1	31.7	95.1

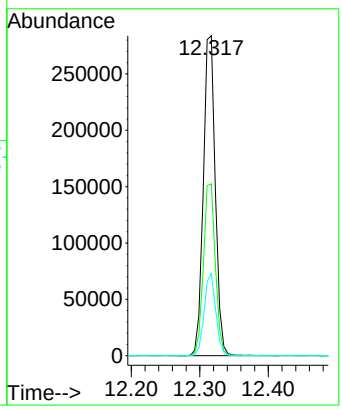




#89
n-Butylbenzene
Concen: 48.442 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 34573

Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.6	82.7
134	24.8	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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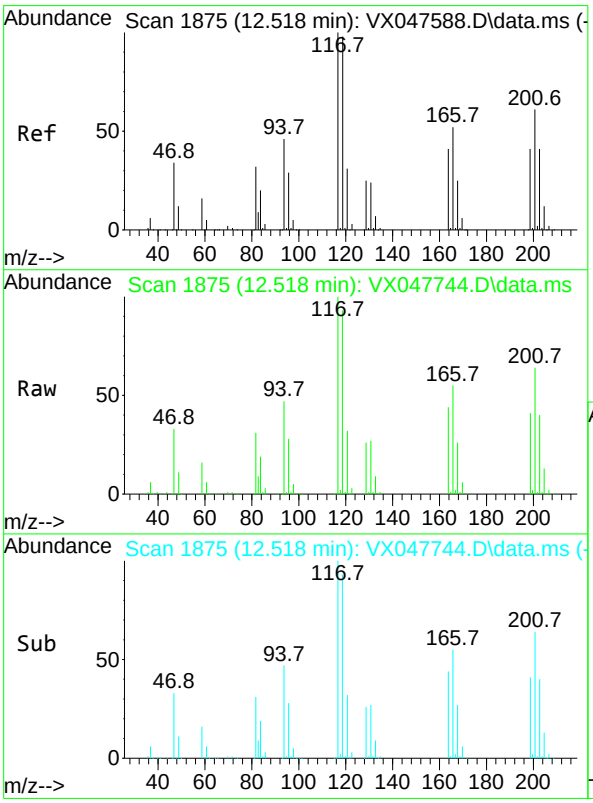
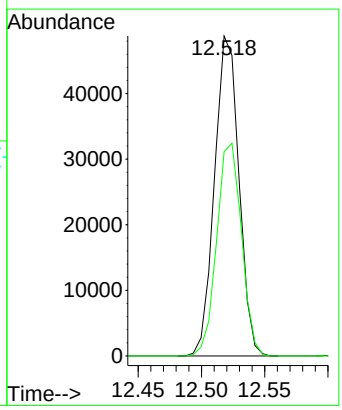
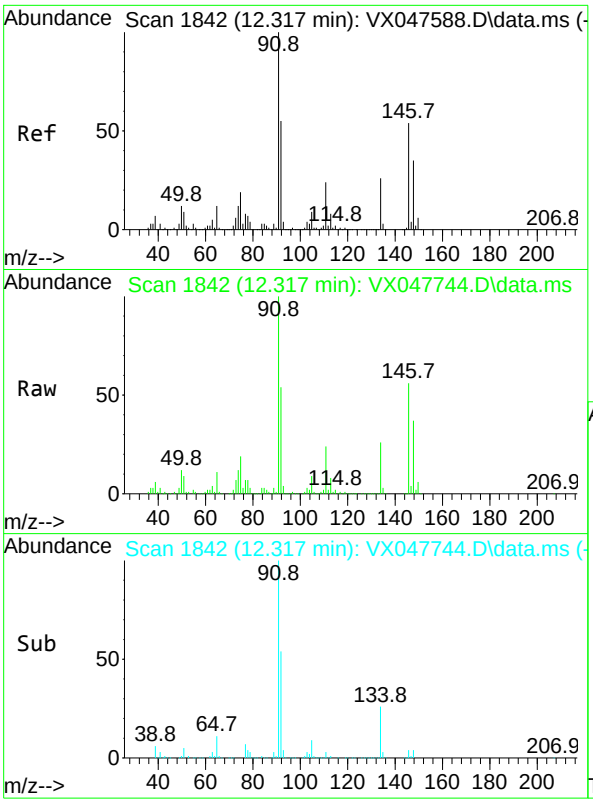


#90
Hexachloroethane
Concen: 48.232 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:117 Resp: 65317

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.2	102.5

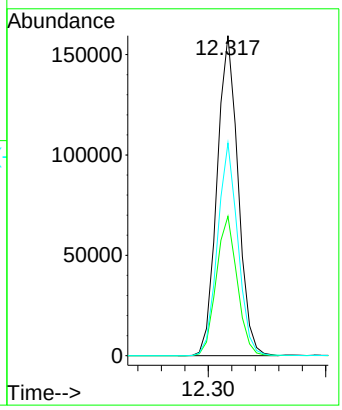




#91
1,2-Dichlorobenzene
Concen: 49.953 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

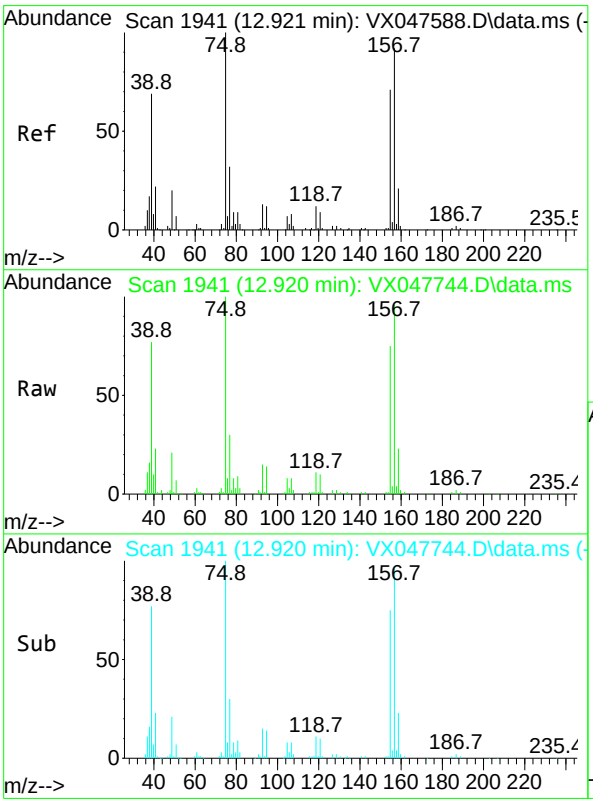
Tgt Ion:146 Resp: 19855

Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.2	66.6
148	64.3	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

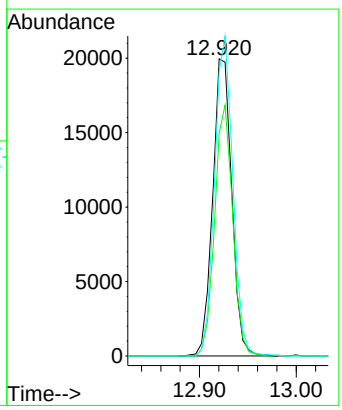
Manual Integrations APPROVED
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

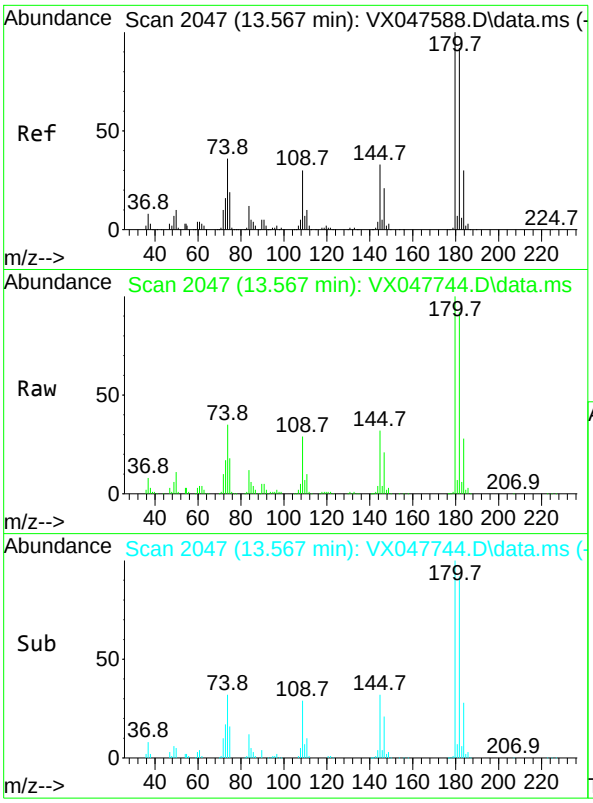


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.908 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 27323

Ion	Ratio	Lower	Upper
75	100		
155	79.8	37.7	113.1
157	103.2	49.8	149.4

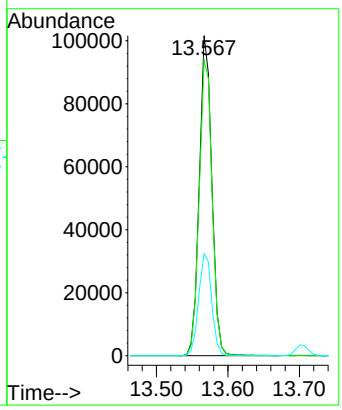




#93
1,2,4-Trichlorobenzene
Concen: 47.762 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:180 Resp: 12338

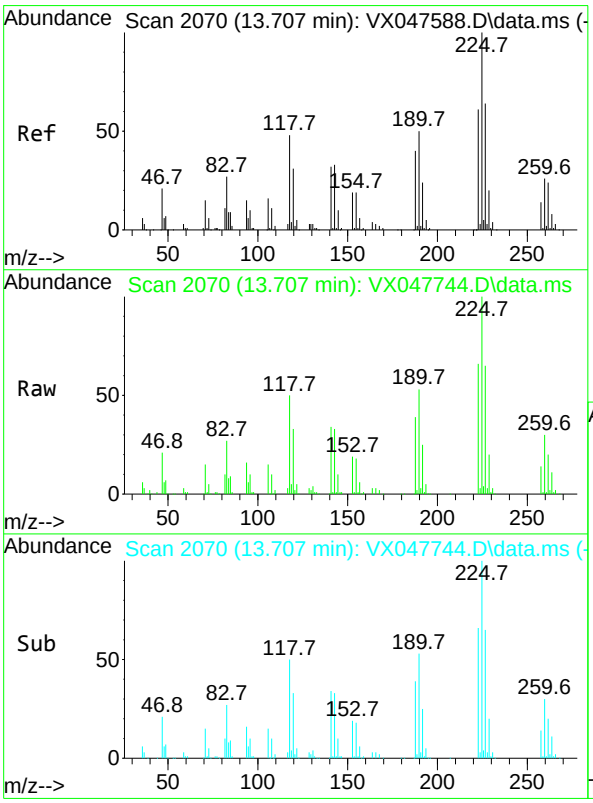
Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.6	139.8
145	33.1	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

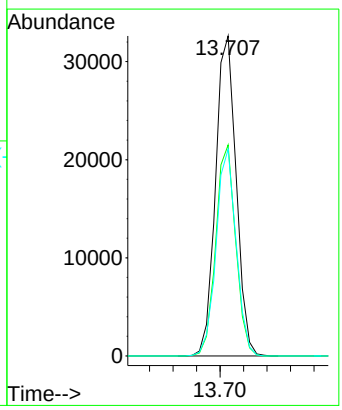
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

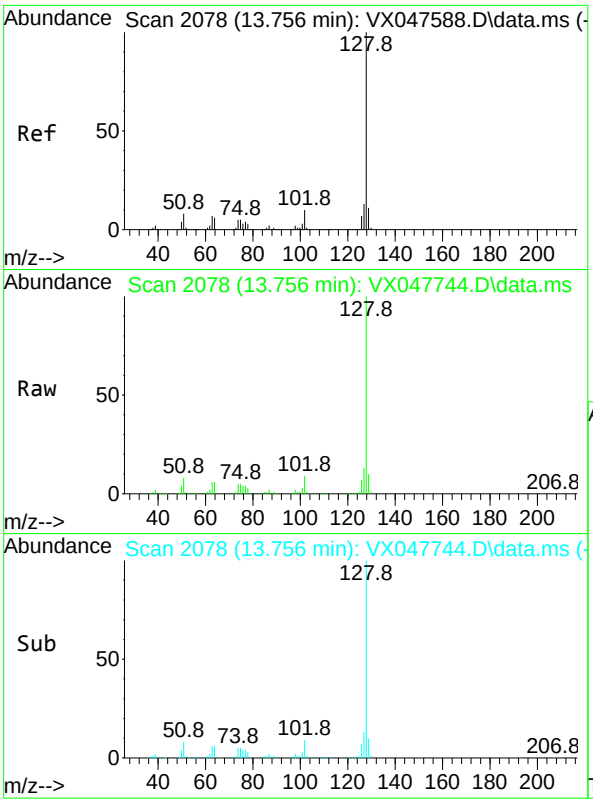


#94
Hexachlorobutadiene
Concen: 45.277 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:225 Resp: 39729

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.7	95.1
227	62.7	32.0	96.0

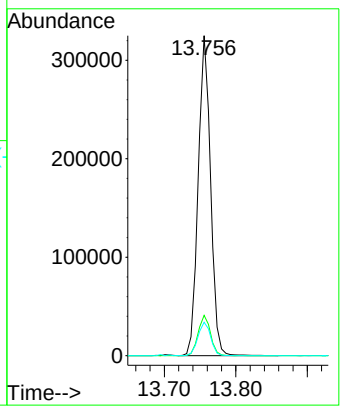




#95
Naphthalene
Concen: 49.575 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:128 Resp: 38997

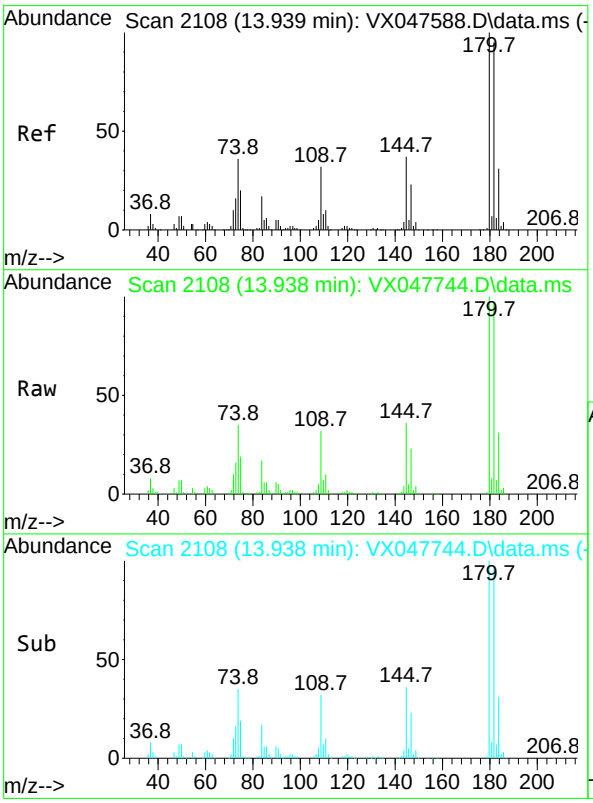
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

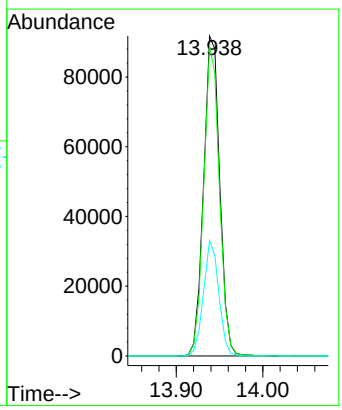
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.357 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:180 Resp: 118608

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.6	142.8
145	34.3	17.9	53.7



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	86	0.00
2	T	Dichlorodifluoromethane	0.518	0.632	-22.0	109	0.00
3	P	Chloromethane	0.680	0.784	-15.3	102	0.00
4	C	Vinyl Chloride	0.666	0.776	-16.5#	101	0.00
5	T	Bromomethane	0.422	0.496	-17.5	101	0.00
6	T	Chloroethane	0.445	0.505	-13.5	98	0.00
7	T	Trichlorofluoromethane	0.989	1.097	-10.9	95	0.00
8	T	Diethyl Ether	0.405	0.438	-8.1	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.639	-10.6	94	0.00
10	T	Methyl Iodide	0.902	0.972	-7.8	92	0.00
11	T	Tert butyl alcohol	0.089	0.082	7.9	79	0.00
12	CM	1,1-Dichloroethene	0.594	0.657	-10.6#	94	0.00
13	T	Acrolein	0.082	0.092	-12.2	97	0.00
14	T	Allyl chloride	1.226	1.245	-1.5	88	0.00
15	T	Acrylonitrile	0.328	0.379	-15.5	94	0.00
16	T	Acetone	0.346	0.295	14.7	80	0.00
17	T	Carbon Disulfide	1.626	1.828	-12.4	101	0.00
18	T	Methyl Acetate	0.770	0.876	-13.8	86	0.00
19	T	Methyl tert-butyl Ether	2.169	2.338	-7.8	90	0.00
20	T	Methylene Chloride	0.732	0.797	-8.9	94	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.715	-11.7	95	0.00
22	T	Diisopropyl ether	2.376	2.590	-9.0	90	0.00
23	T	Vinyl Acetate	1.901	2.098	-10.4	91	0.00
24	P	1,1-Dichloroethane	1.263	1.376	-8.9	91	0.00
25	T	2-Butanone	0.432	0.442	-2.3	87	0.00
26	T	2,2-Dichloropropane	1.050	0.874	16.8	70	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.862	-10.1	92	0.00
28	T	Bromochloromethane	0.551	0.579	-5.1	86	0.00
29	T	Tetrahydrofuran	0.260	0.292	-12.3	91	0.00
30	C	Chloroform	1.276	1.391	-9.0#	91	0.00
31	T	Cyclohexane	1.052	1.100	-4.6	92	0.00
32	T	1,1,1-Trichloroethane	1.082	1.150	-6.3	88	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.781	1.9	87	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35	S	Dibromofluoromethane	0.335	0.336	-0.3	89	0.00
36	T	1,1-Dichloropropene	0.490	0.498	-1.6	90	0.00
37	T	Ethyl Acetate	0.525	0.541	-3.0	90	0.00
38	T	Carbon Tetrachloride	0.532	0.522	1.9	85	0.00
39	T	Methylcyclohexane	0.556	0.569	-2.3	89	0.00
40	TM	Benzene	1.488	1.586	-6.6	92	0.00
41	T	Methacrylonitrile	0.271	0.293	-8.1	90	0.00
42	TM	1,2-Dichloroethane	0.566	0.582	-2.8	88	0.00
43	T	Isopropyl Acetate	0.860	0.900	-4.7	88	0.00
44	TM	Trichloroethene	0.360	0.386	-7.2	92	0.00
45	C	1,2-Dichloropropane	0.381	0.410	-7.6#	91	0.00
46	T	Dibromomethane	0.277	0.295	-6.5	90	0.00
47	T	Bromodichloromethane	0.572	0.607	-6.1	88	0.00
48	T	Methyl methacrylate	0.429	0.448	-4.4	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.005	-25.0	95	0.00
50	S	Toluene-d8	1.160	1.139	1.8	87	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.521	-9.2	90	0.00
52	CM	Toluene	0.917	0.974	-6.2#	91	0.00
53	T	t-1,3-Dichloropropene	0.584	0.590	-1.0	84	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.642	-2.9	86	0.00
55	T	1,1,2-Trichloroethane	0.354	0.387	-9.3	93	0.00
56	T	Ethyl methacrylate	0.555	0.605	-9.0	89	0.00
57	T	1,3-Dichloropropane	0.607	0.663	-9.2	91	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.267	-17.6	86	0.00
59	T	2-Hexanone	0.343	0.358	-4.4	87	0.00
60	T	Dibromochloromethane	0.407	0.441	-8.4	89	0.00
61	T	1,2-Dibromoethane	0.360	0.396	-10.0	92	0.00
62	S	4-Bromofluorobenzene	0.440	0.434	1.4	89	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
64	T	Tetrachloroethene	0.326	0.337	-3.4	93	0.00
65	PM	Chlorobenzene	1.136	1.185	-4.3	91	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.406	-3.6	88	0.00
67	C	Ethyl Benzene	1.960	2.020	-3.1#	89	0.00
68	T	m/p-Xylenes	0.729	0.755	-3.6	89	0.00
69	T	o-Xylene	0.706	0.741	-5.0	89	0.00
70	T	Styrene	1.236	1.305	-5.6	91	0.00
71	P	Bromoform	0.293	0.305	-4.1	88	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
73	T	Isopropylbenzene	3.801	3.780	0.6	88	0.00
74	T	N-amyl acetate	1.733	1.757	-1.4	89	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.194	-3.8	92	0.00
76	T	1,2,3-Trichloropropane	1.012	1.066	-5.3	89	0.00
77	T	Bromobenzene	0.936	0.936	0.0	89	0.00
78	T	n-propylbenzene	4.494	4.447	1.0	87	0.00
79	T	2-Chlorotoluene	2.752	2.701	1.9	87	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.088	1.1	87	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.369	7.1	84	0.00
82	T	4-Chlorotoluene	3.251	3.225	0.8	88	0.00
83	T	tert-Butylbenzene	3.197	3.114	2.6	87	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.140	0.8	88	0.00
85	T	sec-Butylbenzene	3.797	3.712	2.2	87	0.00
86	T	p-Isopropyltoluene	3.215	3.117	3.0	86	0.00
87	T	1,3-Dichlorobenzene	1.739	1.714	1.4	89	0.00
88	T	1,4-Dichlorobenzene	1.785	1.729	3.1	89	0.00
89	T	n-Butylbenzene	2.975	2.882	3.1	86	0.00
90	T	Hexachloroethane	0.564	0.544	3.5	86	0.00
91	T	1,2-Dichlorobenzene	1.657	1.655	0.1	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.228	2.1	84	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.029	4.5	84	0.00
94	T	Hexachlorobutadiene	0.366	0.331	9.6	81	0.00
95	T	Naphthalene	3.279	3.251	0.9	86	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.989	1.3	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	86	0.00
2	T	Dichlorodifluoromethane	50.000	61.061	-22.1	109	0.00
3	P	Chloromethane	50.000	57.609	-15.2	102	0.00
4	C	Vinyl Chloride	50.000	58.282	-16.6#	101	0.00
5	T	Bromomethane	50.000	58.713	-17.4	101	0.00
6	T	Chloroethane	50.000	56.753	-13.5	98	0.00
7	T	Trichlorofluoromethane	50.000	55.451	-10.9	95	0.00
8	T	Diethyl Ether	50.000	54.148	-8.3	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	55.254	-10.5	94	0.00
10	T	Methyl Iodide	50.000	53.870	-7.7	92	0.00
11	T	Tert butyl alcohol	250.000	231.046	7.6	79	0.00
12	CM	1,1-Dichloroethene	50.000	55.275	-10.5#	94	0.00
13	T	Acrolein	250.000	281.718	-12.7	97	0.00
14	T	Allyl chloride	50.000	50.766	-1.5	88	0.00
15	T	Acrylonitrile	250.000	288.375	-15.4	94	0.00
16	T	Acetone	250.000	212.978	14.8	80	0.00
17	T	Carbon Disulfide	50.000	56.202	-12.4	101	0.00
18	T	Methyl Acetate	50.000	56.883	-13.8	86	0.00
19	T	Methyl tert-butyl Ether	50.000	53.896	-7.8	90	0.00
20	T	Methylene Chloride	50.000	54.405	-8.8	94	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.907	-11.8	95	0.00
22	T	Diisopropyl ether	50.000	54.502	-9.0	90	0.00
23	T	Vinyl Acetate	250.000	275.867	-10.3	91	0.00
24	P	1,1-Dichloroethane	50.000	54.500	-9.0	91	0.00
25	T	2-Butanone	250.000	256.128	-2.5	87	0.00
26	T	2,2-Dichloropropane	50.000	41.645	16.7	70	0.00
27	T	cis-1,2-Dichloroethene	50.000	55.058	-10.1	92	0.00
28	T	Bromochloromethane	50.000	52.489	-5.0	86	0.00
29	T	Tetrahydrofuran	250.000	281.124	-12.4	91	0.00
30	C	Chloroform	50.000	54.504	-9.0#	91	0.00
31	T	Cyclohexane	50.000	52.311	-4.6	92	0.00
32	T	1,1,1-Trichloroethane	50.000	53.110	-6.2	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.065	1.9	87	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35	S	Dibromofluoromethane	50.000	50.112	-0.2	89	0.00
36	T	1,1-Dichloropropene	50.000	50.792	-1.6	90	0.00
37	T	Ethyl Acetate	50.000	51.600	-3.2	90	0.00
38	T	Carbon Tetrachloride	50.000	49.026	1.9	85	0.00
39	T	Methylcyclohexane	50.000	51.142	-2.3	89	0.00
40	TM	Benzene	50.000	53.282	-6.6	92	0.00
41	T	Methacrylonitrile	50.000	54.104	-8.2	90	0.00
42	TM	1,2-Dichloroethane	50.000	51.431	-2.9	88	0.00
43	T	Isopropyl Acetate	50.000	52.327	-4.7	88	0.00
44	TM	Trichloroethene	50.000	53.576	-7.2	92	0.00
45	C	1,2-Dichloropropane	50.000	53.818	-7.6#	91	0.00
46	T	Dibromomethane	50.000	53.104	-6.2	90	0.00
47	T	Bromodichloromethane	50.000	53.077	-6.2	88	0.00
48	T	Methyl methacrylate	50.000	52.283	-4.6	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1196.046	-19.6	95	0.00
50	S	Toluene-d8	50.000	49.087	1.8	87	0.00
51	T	4-Methyl-2-Pentanone	250.000	272.809	-9.1	90	0.00
52	CM	Toluene	50.000	53.113	-6.2#	91	0.00
53	T	t-1,3-Dichloropropene	50.000	50.499	-1.0	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.421	-2.8	86	0.00
55	T	1,1,2-Trichloroethane	50.000	54.692	-9.4	93	0.00
56	T	Ethyl methacrylate	50.000	54.448	-8.9	89	0.00
57	T	1,3-Dichloropropane	50.000	54.560	-9.1	91	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	251.172	-0.5	86	0.00
59	T	2-Hexanone	250.000	260.895	-4.4	87	0.00
60	T	Dibromochloromethane	50.000	54.078	-8.2	89	0.00
61	T	1,2-Dibromoethane	50.000	54.937	-9.9	92	0.00
62	S	4-Bromofluorobenzene	50.000	49.307	1.4	89	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	90	0.00
64	T	Tetrachloroethene	50.000	51.765	-3.5	93	0.00
65	PM	Chlorobenzene	50.000	52.159	-4.3	91	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.810	-3.6	88	0.00
67	C	Ethyl Benzene	50.000	51.527	-3.1#	89	0.00
68	T	m/p-Xylenes	100.000	103.518	-3.5	89	0.00
69	T	o-Xylene	50.000	52.511	-5.0	89	0.00
70	T	Styrene	50.000	52.779	-5.6	91	0.00
71	P	Bromoform	50.000	52.097	-4.2	88	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	94	0.00
73	T	Isopropylbenzene	50.000	49.722	0.6	88	0.00
74	T	N-amyl acetate	50.000	50.685	-1.4	89	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.892	-3.8	92	0.00
76	T	1,2,3-Trichloropropane	50.000	52.639	-5.3	89	0.00
77	T	Bromobenzene	50.000	50.007	-0.0	89	0.00
78	T	n-propylbenzene	50.000	49.483	1.0	87	0.00
79	T	2-Chlorotoluene	50.000	49.069	1.9	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.437	1.1	87	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.433	7.1	84	0.00
82	T	4-Chlorotoluene	50.000	49.610	0.8	88	0.00
83	T	tert-Butylbenzene	50.000	48.704	2.6	87	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.591	0.8	88	0.00
85	T	sec-Butylbenzene	50.000	48.878	2.2	87	0.00
86	T	p-Isopropyltoluene	50.000	48.479	3.0	86	0.00
87	T	1,3-Dichlorobenzene	50.000	49.286	1.4	89	0.00
88	T	1,4-Dichlorobenzene	50.000	48.449	3.1	89	0.00
89	T	n-Butylbenzene	50.000	48.442	3.1	86	0.00
90	T	Hexachloroethane	50.000	48.232	3.5	86	0.00
91	T	1,2-Dichlorobenzene	50.000	49.953	0.1	89	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.908	2.2	84	0.00
93	T	1,2,4-Trichlorobenzene	50.000	47.762	4.5	84	0.00
94	T	Hexachlorobutadiene	50.000	45.277	9.4	81	0.00
95	T	Naphthalene	50.000	49.575	0.8	86	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.357	1.3	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: AECO15

Lab Code: ACE | SDG No.: Q3097

Instrument ID: MSVOA_X | Calibration Date/Time: 09/24/2025 02:08

Lab File ID: VX047746.D | Init. Calib. Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.672		29.73	20
Chloromethane	0.680	0.783	0.1	15.15	20
Vinyl Chloride	0.666	0.789		18.47	20
Bromomethane	0.422	0.468		10.9	20
Chloroethane	0.445	0.492		10.56	20
Trichlorofluoromethane	0.989	1.101		11.32	20
1,1,2-Trichlorotrifluoroethane	0.578	0.655		13.32	20
1,1-Dichloroethene	0.594	0.663		11.62	20
Acetone	0.346	0.298		-13.87	20
Carbon Disulfide	1.626	1.796		10.45	20
Methyl tert-butyl Ether	2.169	2.253		3.87	20
Methyl Acetate	0.770	0.868		12.73	20
Methylene Chloride	0.732	0.771		5.33	20
trans-1,2-Dichloroethene	0.640	0.695		8.59	20
1,1-Dichloroethane	1.263	1.349	0.1	6.81	20
Cyclohexane	1.052	1.077		2.38	20
2-Butanone	0.432	0.438		1.39	20
Carbon Tetrachloride	0.532	0.554		4.14	20
cis-1,2-Dichloroethene	0.783	0.815		4.09	20
Bromochloromethane	0.551	0.629		14.16	20
Chloroform	1.276	1.328		4.07	20
1,1,1-Trichloroethane	1.082	1.123		3.79	20
Methylcyclohexane	0.556	0.576		3.6	20
Benzene	1.488	1.584		6.45	20
1,2-Dichloroethane	0.566	0.569		0.53	20
Trichloroethene	0.360	0.387		7.5	20
1,2-Dichloropropane	0.381	0.401		5.25	20
Bromodichloromethane	0.572	0.594		3.85	20
4-Methyl-2-Pentanone	0.477	0.516		8.18	20
Toluene	0.917	0.950		3.6	20
t-1,3-Dichloropropene	0.584	0.561		-3.94	20
cis-1,3-Dichloropropene	0.624	0.614		-1.6	20
1,1,2-Trichloroethane	0.354	0.369		4.24	20
2-Hexanone	0.343	0.357		4.08	20
Dibromochloromethane	0.407	0.431		5.9	20
1,2-Dibromoethane	0.360	0.382		6.11	20
Tetrachloroethene	0.326	0.346		6.14	20
Chlorobenzene	1.136	1.179	0.3	3.79	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/24/2025 02:08
Lab File ID:	VX047746.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	2.043		4.24	20
m/p-Xylenes	0.729	0.773		6.04	20
o-Xylene	0.706	0.741		4.96	20
Styrene	1.236	1.308		5.82	20
Bromoform	0.293	0.317	0.1	8.19	20
Isopropylbenzene	3.801	3.949		3.89	20
1,1,2,2-Tetrachloroethane	1.150	1.228	0.3	6.78	20
1,3-Dichlorobenzene	1.739	1.760		1.21	20
1,4-Dichlorobenzene	1.785	1.788		0.17	20
1,2-Dichlorobenzene	1.657	1.706		2.96	20
1,2-Dibromo-3-Chloropropane	0.233	0.234		0.43	20
1,2,4-Trichlorobenzene	1.077	1.065		-1.11	20
1,2,3-Trichlorobenzene	1.002	1.020		1.8	20
1,2-Dichloroethane-d4	0.796	0.863		8.42	20
Dibromofluoromethane	0.335	0.398		18.81	20
Toluene-d8	1.160	1.325		14.22	20
4-Bromofluorobenzene	0.440	0.493		12.05	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	166745	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	290663	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	252770	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	121948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	143883	54.210	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.420%			
35) Dibromofluoromethane	5.361	113	115620	59.312	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 118.620%			
50) Toluene-d8	8.629	98	385188	57.106	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 114.220%#			
62) 4-Bromofluorobenzene	11.061	95	143339	55.994	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	112040	64.888	ug/l	100
3) Chloromethane	1.301	50	130600	57.550	ug/l	100
4) Vinyl Chloride	1.380	62	131626	59.253	ug/l	99
5) Bromomethane	1.612	94	78027	55.392	ug/l	100
6) Chloroethane	1.691	64	81956	55.200	ug/l	99
7) Trichlorofluoromethane	1.892	101	183574	55.656	ug/l	98
8) Diethyl Ether	2.136	74	71840	53.244	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	109156	56.598	ug/l	98
10) Methyl Iodide	2.453	142	159713	53.098	ug/l	100
11) Tert butyl alcohol	2.941	59	74645	252.518	ug/l	99
12) 1,1-Dichloroethene	2.319	96	110500	55.777	ug/l	95
13) Acrolein	2.233	56	76283	280.037	ug/l	97
14) Allyl chloride	2.660	41	201882	49.383	ug/l	97
15) Acrylonitrile	3.050	53	308364	281.629	ug/l	99
16) Acetone	2.374	43	248054	214.945	ug/l	97
17) Carbon Disulfide	2.514	76	299474	55.218	ug/l	98
18) Methyl Acetate	2.697	43	144662	56.326	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	375666	51.946	ug/l	100
20) Methylene Chloride	2.788	84	128569	52.632	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	115848	54.315	ug/l	98
22) Diisopropyl ether	3.745	45	417196	52.658	ug/l	88
23) Vinyl Acetate	3.709	43	1676763	264.433	ug/l	100
24) 1,1-Dichloroethane	3.599	63	224981	53.426	ug/l	100
25) 2-Butanone	4.532	43	365129	253.647	ug/l	98
26) 2,2-Dichloropropane	4.459	77	121706	34.769	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	135871	52.016	ug/l	95
28) Bromochloromethane	4.879	49	104808	57.010	ug/l	98
29) Tetrahydrofuran	4.983	42	236130	272.674	ug/l	99
30) Chloroform	5.068	83	221493	52.050	ug/l	97
31) Cyclohexane	5.452	56	179654	51.224	ug/l	96
32) 1,1,1-Trichloroethane	5.361	97	187296	51.890	ug/l	100
36) 1,1-Dichloropropene	5.672	75	146503	51.432	ug/l	99
37) Ethyl Acetate	4.690	43	157558	51.660	ug/l	99
38) Carbon Tetrachloride	5.660	117	160891	51.986	ug/l	97
39) Methylcyclohexane	7.361	83	167414	51.777	ug/l	99
40) Benzene	6.019	78	460455	53.223	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.891	41	87766	55.742	ug/l		97
42) 1,2-Dichloroethane	6.068	62	165276	50.209	ug/l		98
43) Isopropyl Acetate	6.318	43	257745	51.528	ug/l		99
44) Trichloroethene	7.104	130	112394	53.736	ug/l		99
45) 1,2-Dichloropropane	7.409	63	116449	52.565	ug/l		100
46) Dibromomethane	7.562	93	84502	52.418	ug/l		98
47) Bromodichloromethane	7.799	83	172703	51.915	ug/l		99
48) Methyl methacrylate	7.671	41	129497	51.974	ug/l		98
49) 1,4-Dioxane	7.641	88	32904	1306.764	ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	749272	270.171	ug/l		100
52) Toluene	8.702	92	276160	51.811	ug/l		99
53) t-1,3-Dichloropropene	8.958	75	163001	48.037	ug/l		97
54) cis-1,3-Dichloropropene	8.348	75	178505	49.218	ug/l		96
55) 1,1,2-Trichloroethane	9.135	97	107258	52.187	ug/l		98
56) Ethyl methacrylate	9.098	69	169567	52.534	ug/l		97
57) 1,3-Dichloropropane	9.287	76	186062	52.699	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	436211	280.568	ug/l		100
59) 2-Hexanone	9.415	43	518114	260.122	ug/l		98
60) Dibromochloromethane	9.500	129	125404	52.954	ug/l		99
61) 1,2-Dibromoethane	9.592	107	111139	53.090	ug/l		100
64) Tetrachloroethene	9.257	164	87453	53.073	ug/l		97
65) Chlorobenzene	10.061	112	297945	51.885	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	104386	52.679	ug/l		100
67) Ethyl Benzene	10.177	91	516414	52.120	ug/l		100
68) m/p-Xylenes	10.287	106	390979	106.017	ug/l		98
69) o-Xylene	10.622	106	187203	52.481	ug/l		99
70) Styrene	10.634	104	330686	52.908	ug/l		98
71) Bromoform	10.781	173	80138	54.161	ug/l	#	96
73) Isopropylbenzene	10.945	105	481526	51.938	ug/l		100
74) N-amyl acetate	10.823	43	221168	52.312	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	149789	53.400	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	119145m	48.255	ug/l		
77) Bromobenzene	11.183	156	116706	51.110	ug/l		97
78) n-propylbenzene	11.287	91	563194	51.387	ug/l		99
79) 2-Chlorotoluene	11.348	91	341925	50.938	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	385950	50.669	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.000	75	42739	44.142	ug/l		98
82) 4-Chlorotoluene	11.439	91	398881	50.313	ug/l		99
83) tert-Butylbenzene	11.695	119	397171	50.936	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	394508	51.085	ug/l		99
85) sec-Butylbenzene	11.872	105	471850	50.945	ug/l		100
86) p-Isopropyltoluene	11.988	119	397440	50.687	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	214686	50.618	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	218086	50.100	ug/l		99
89) n-Butylbenzene	12.311	91	359706	49.578	ug/l		99
90) Hexachloroethane	12.518	117	70601	51.284	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	208091	51.499	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28554	50.279	ug/l		93
93) 1,2,4-Trichlorobenzene	13.567	180	129844	49.444	ug/l		100
94) Hexachlorobutadiene	13.707	225	42478	47.621	ug/l		99
95) Naphthalene	13.756	128	410203	51.297	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	124328	50.895	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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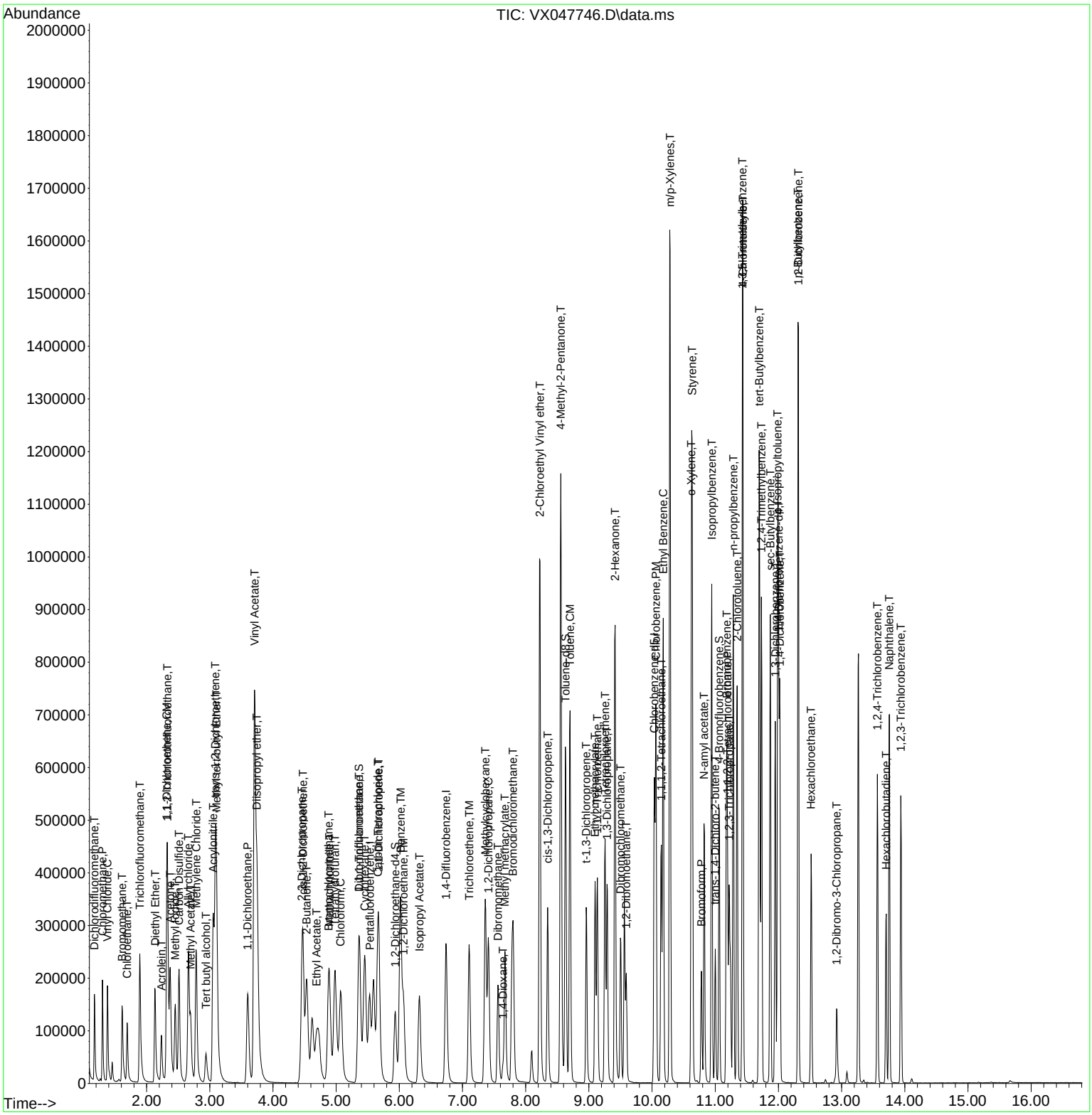
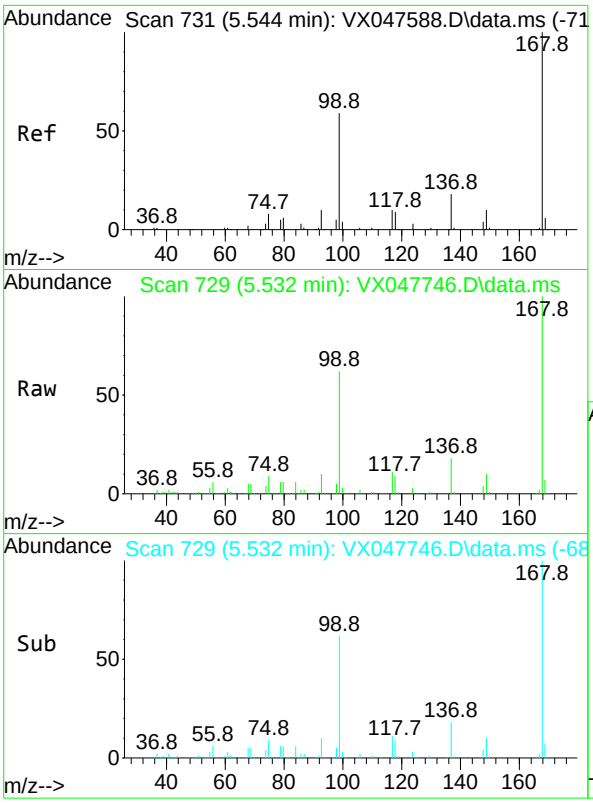
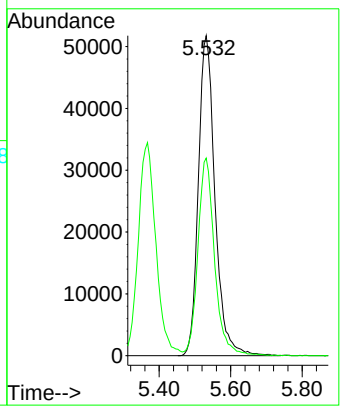




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:168 Resp: 16674

Ion	Ratio	Lower	Upper
168	100		
99	61.6	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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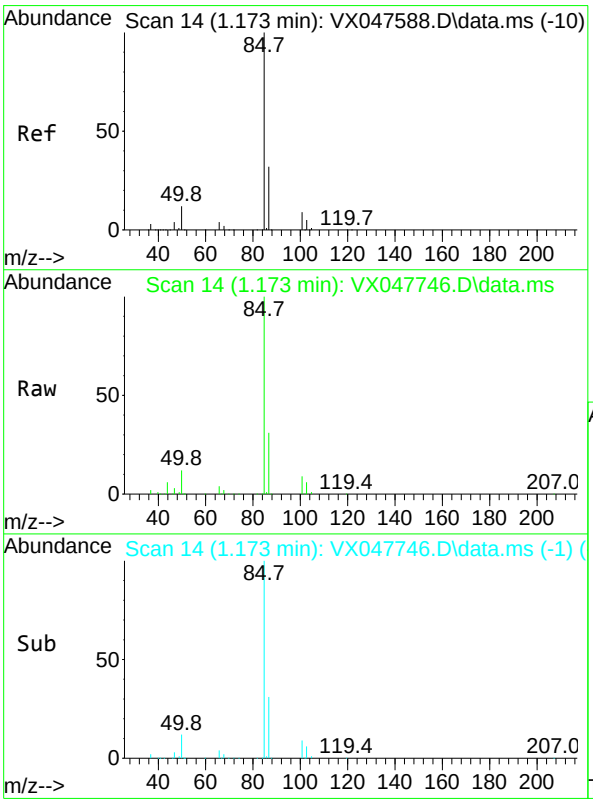
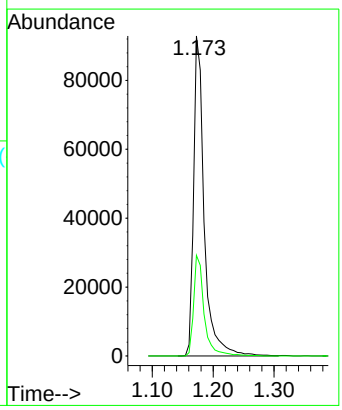
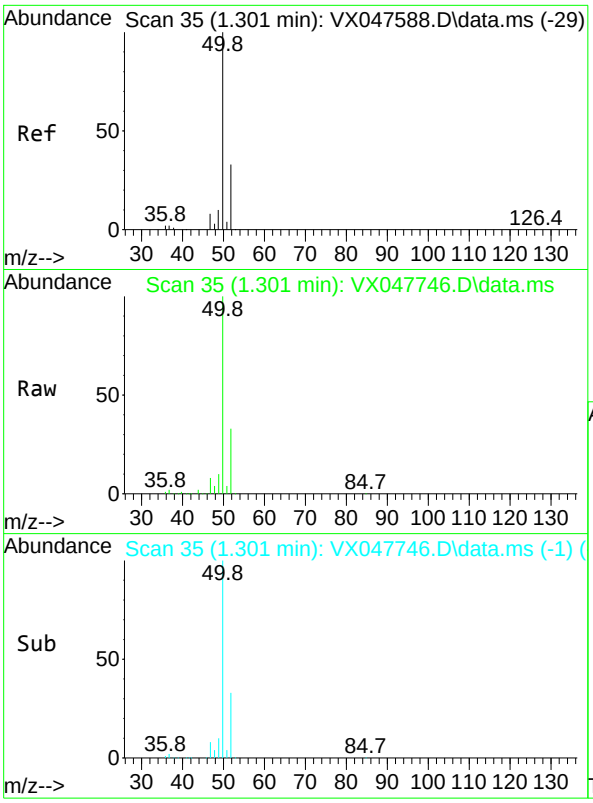


#2
Dichlorodifluoromethane
Concen: 64.888 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 85 Resp: 112040

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.8	47.3

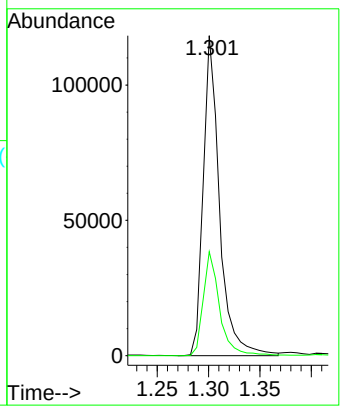




#3
Chloromethane
Concen: 57.550 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 50 Resp: 13060

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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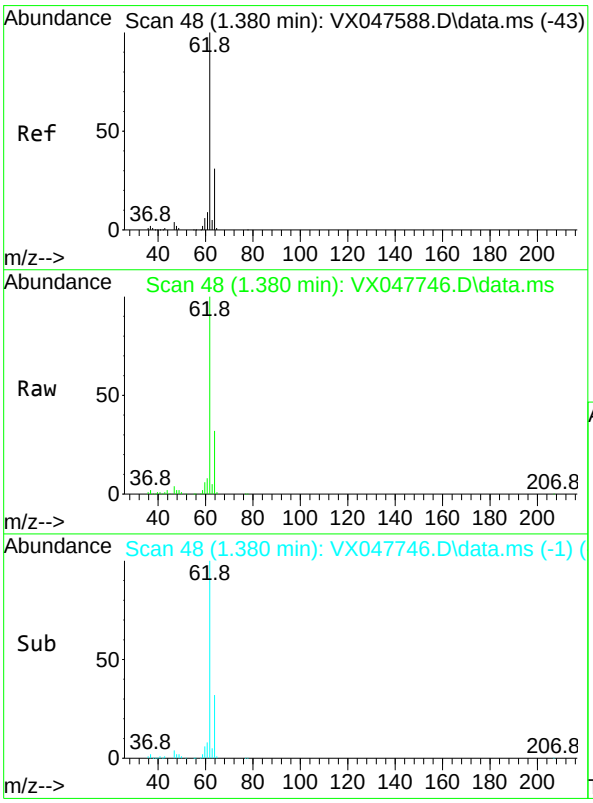
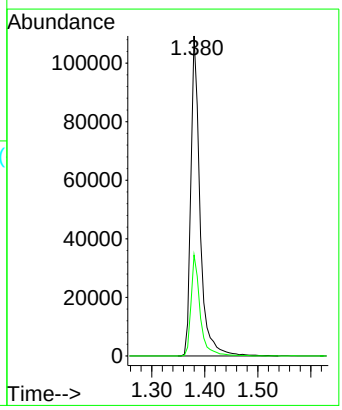
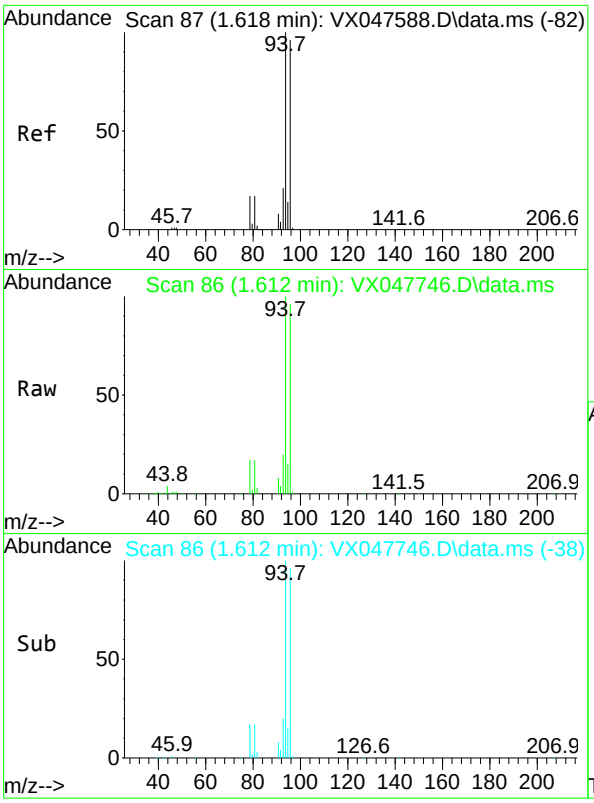


#4
Vinyl Chloride
Concen: 59.253 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 62 Resp: 131626

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.9	37.3

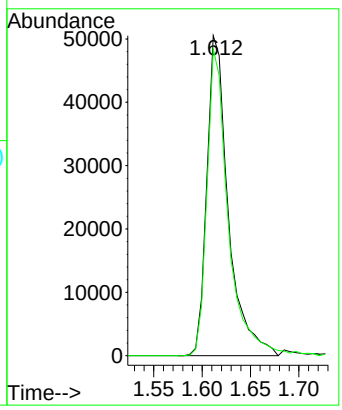




#5
Bromomethane
Concen: 55.392 ug/l
RT: 1.612 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 94 Resp: 7802

Ion	Ratio	Lower	Upper
94	100		
96	95.9	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
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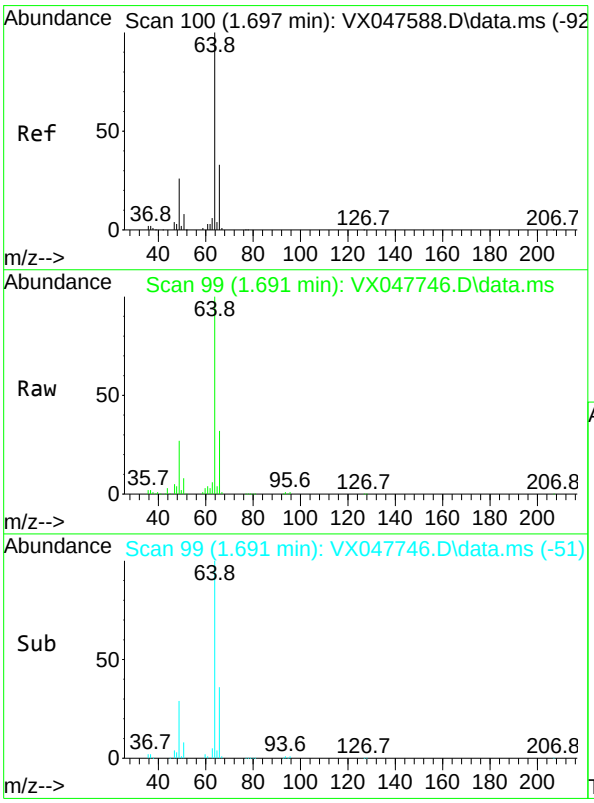
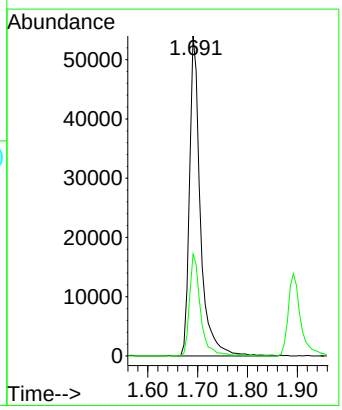
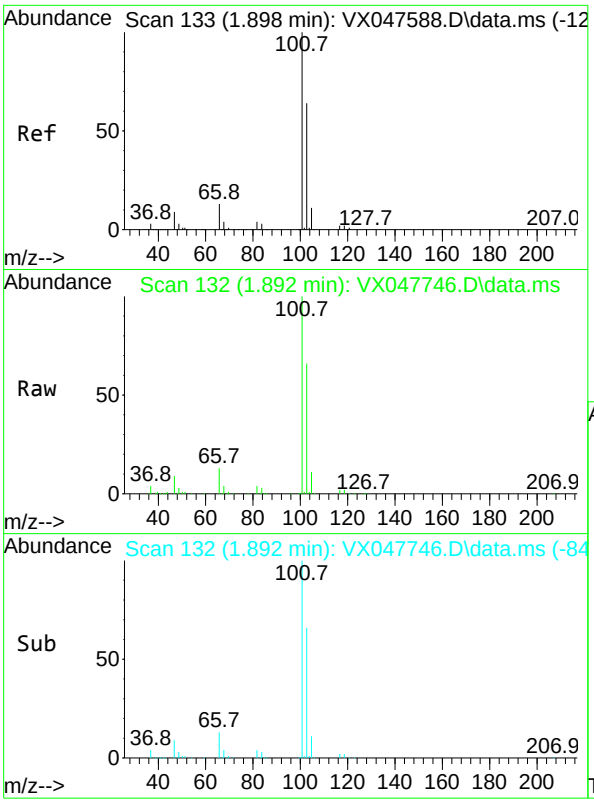


#6
Chloroethane
Concen: 55.200 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 64 Resp: 81956

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1

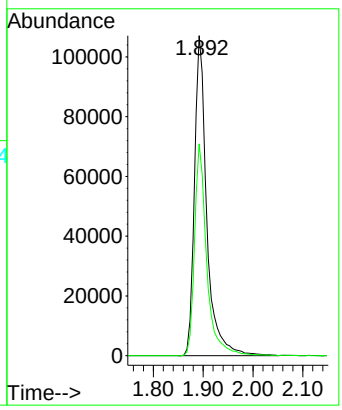




#7
Trichlorofluoromethane
Concen: 55.656 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:101 Resp: 18357

Ion	Ratio	Lower	Upper
101	100		
103	66.2	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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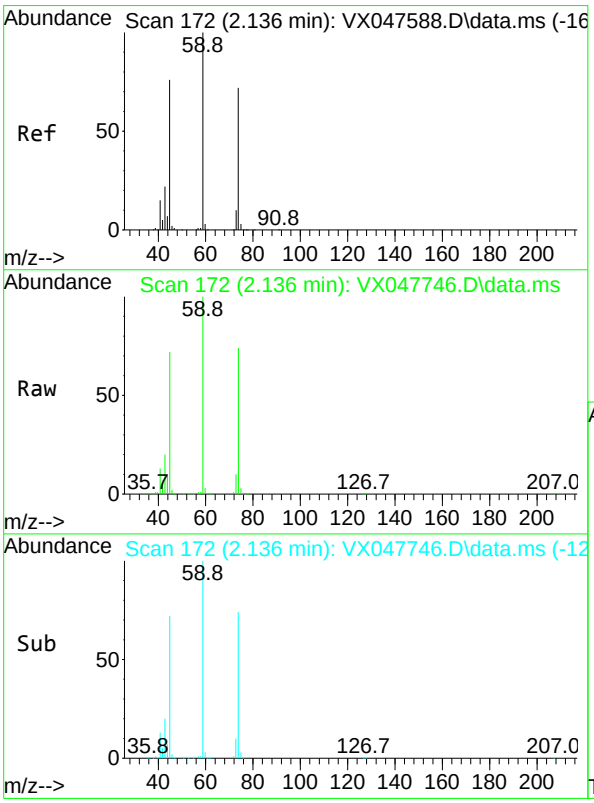
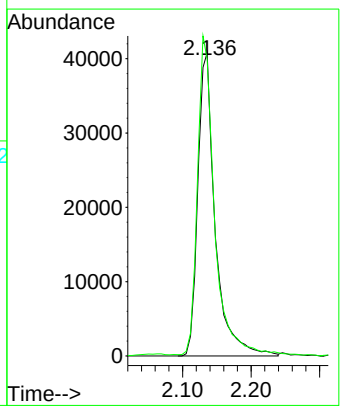
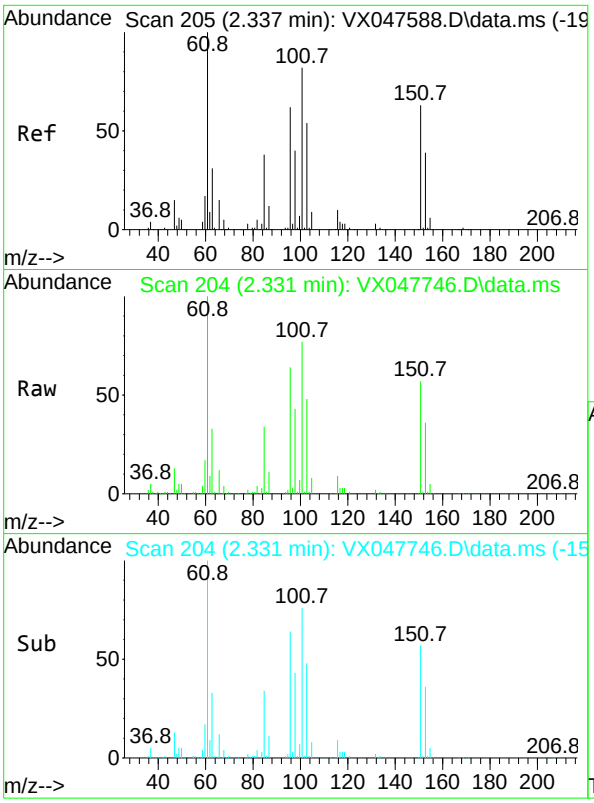


#8
Diethyl Ether
Concen: 53.244 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 74 Resp: 71840

Ion	Ratio	Lower	Upper
74	100		
45	105.8	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.598 ug/l
RT: 2.331 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:101 Resp: 10915(

Ion	Ratio	Lower	Upper
101	100		
85	43.4	35.5	53.3
151	72.1	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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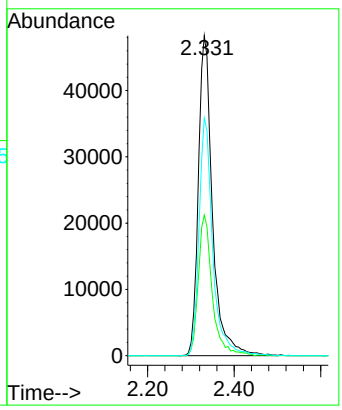
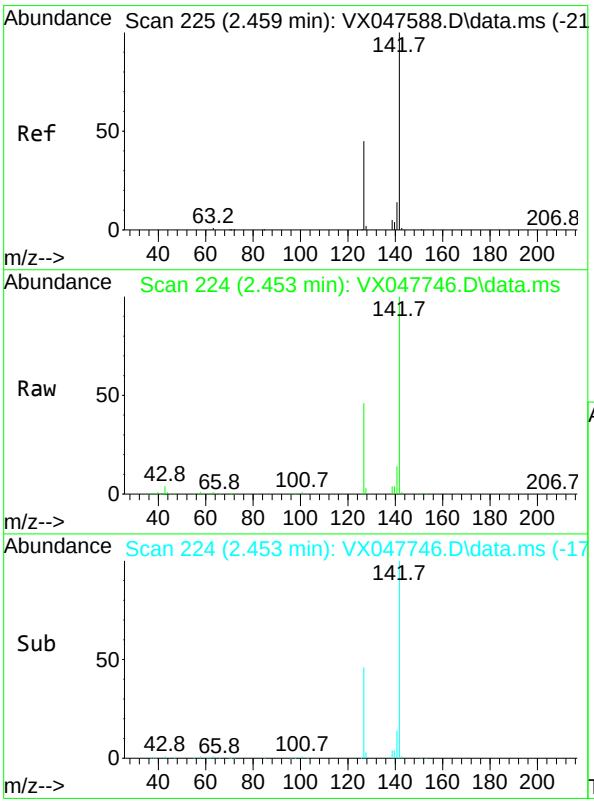
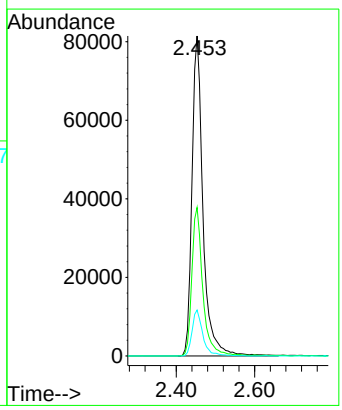


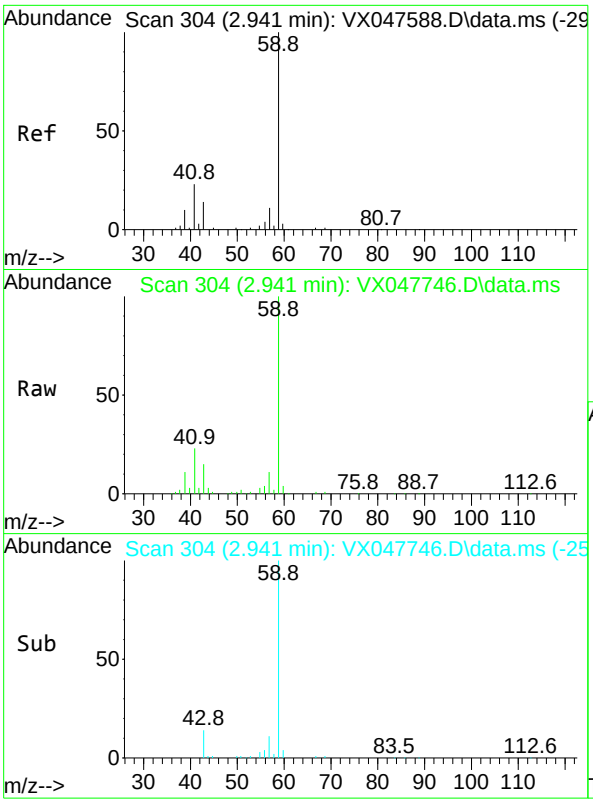


#10
Methyl Iodide
Concen: 53.098 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:142 Resp: 159713

Ion	Ratio	Lower	Upper
142	100		
127	46.2	37.2	55.8
141	14.1	11.4	17.0

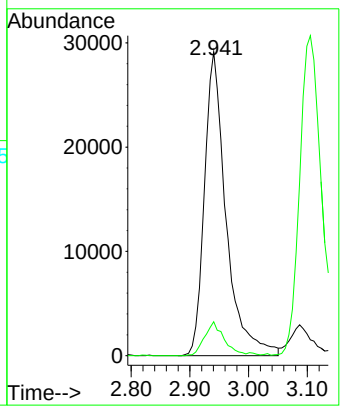




#11
Tert butyl alcohol
Concen: 252.518 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 59 Resp: 7464

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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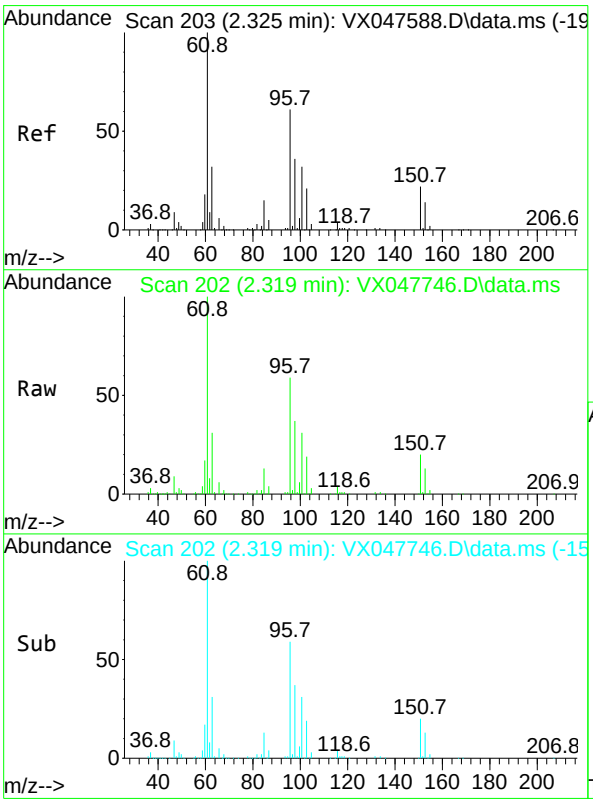
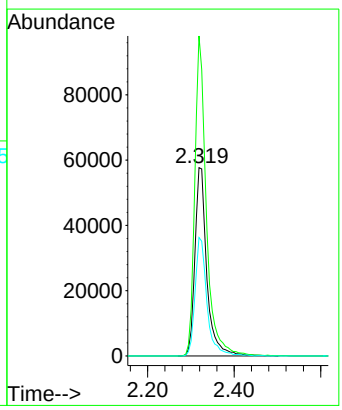
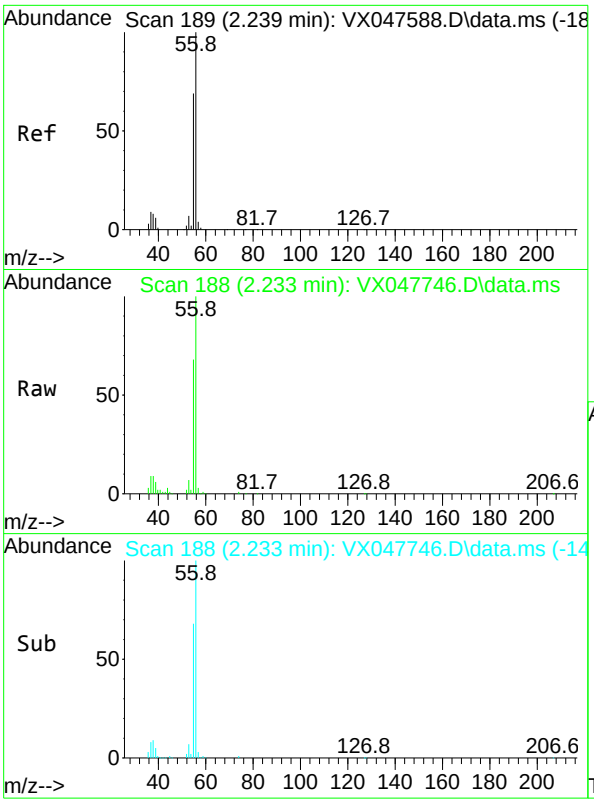


#12
1,1-Dichloroethene
Concen: 55.777 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 96 Resp: 110500

Ion	Ratio	Lower	Upper
96	100		
61	169.9	131.0	196.6
98	62.9	47.7	71.5

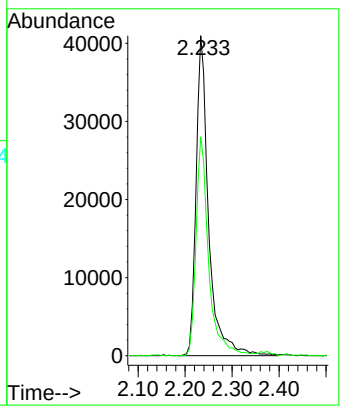




#13
Acrolein
Concen: 280.037 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 56 Resp: 7628

Ion	Ratio	Lower	Upper
56	100		
55	68.8	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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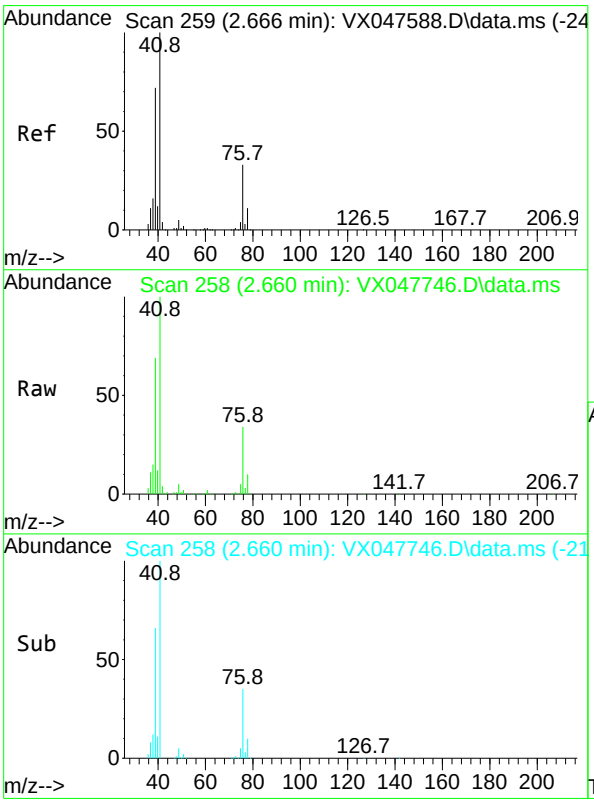
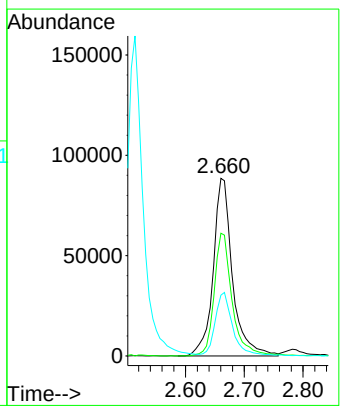
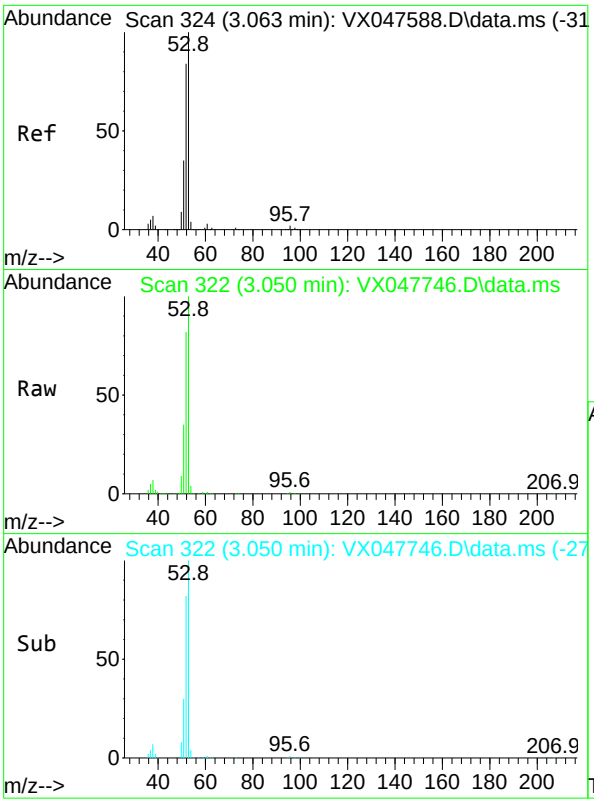


#14
Allyl chloride
Concen: 49.383 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 201882

Ion	Ratio	Lower	Upper
41	100		
39	64.8	54.7	82.1
76	32.5	25.7	38.5

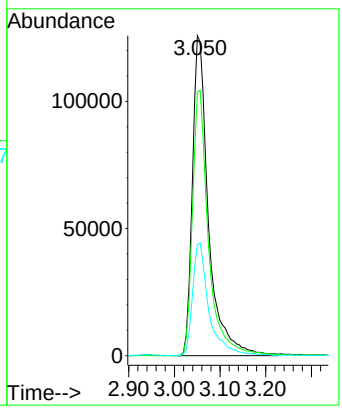




#15
Acrylonitrile
Concen: 281.629 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 53 Resp: 30836

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.0	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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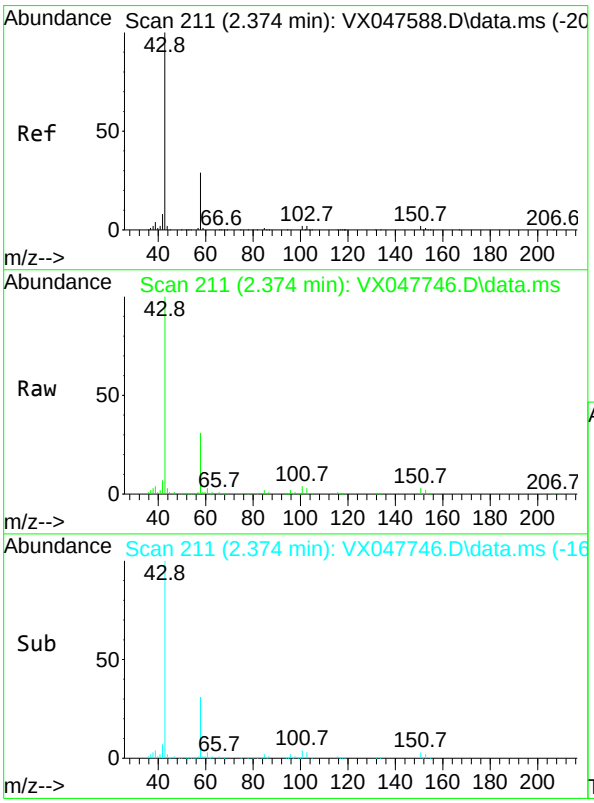
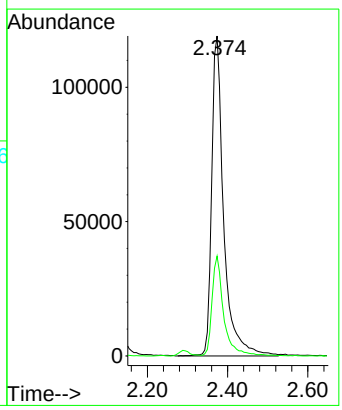
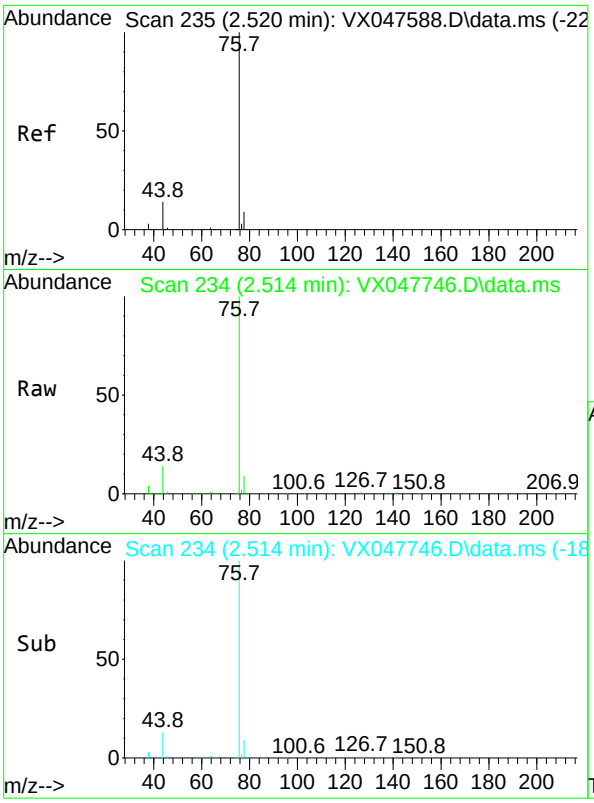


#16
Acetone
Concen: 214.945 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 248054

Ion	Ratio	Lower	Upper
43	100		
58	31.1	23.4	35.0

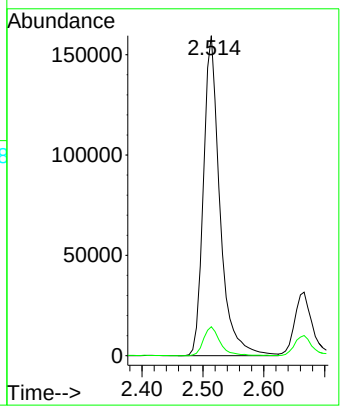




#17
Carbon Disulfide
Concen: 55.218 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 76 Resp: 29947

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 09/24/2025
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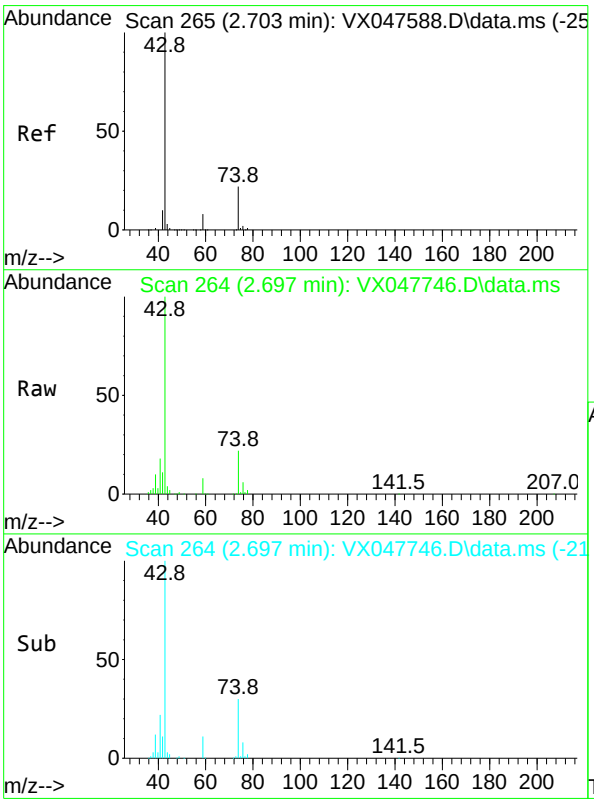
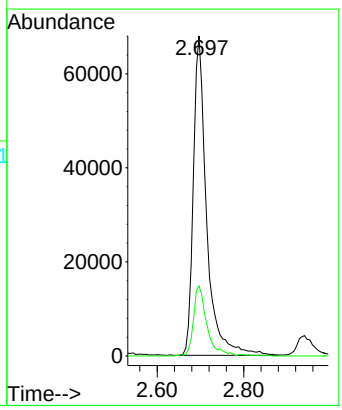
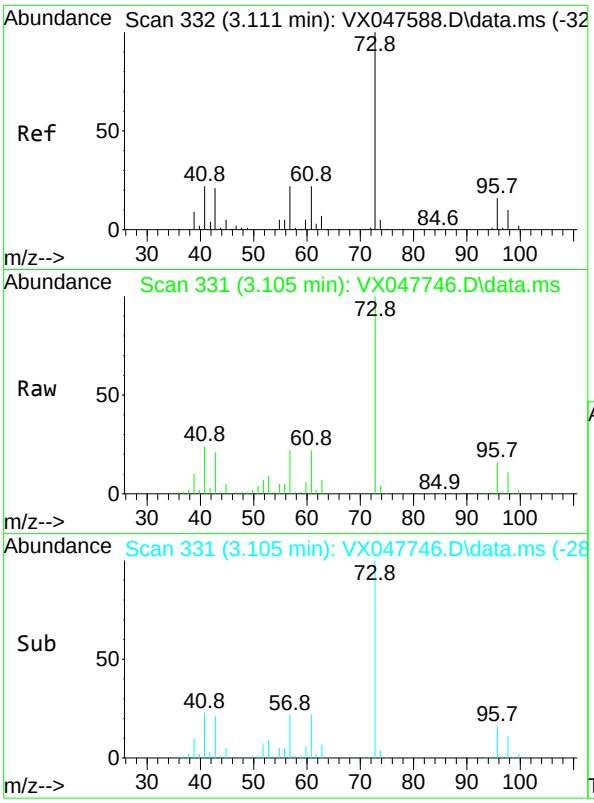


#18
Methyl Acetate
Concen: 56.326 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 144662

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2

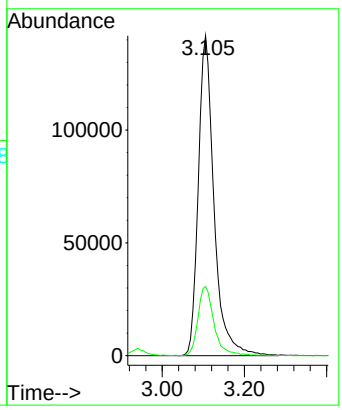




#19
Methyl tert-butyl Ether
Concen: 51.946 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 73 Resp: 37566

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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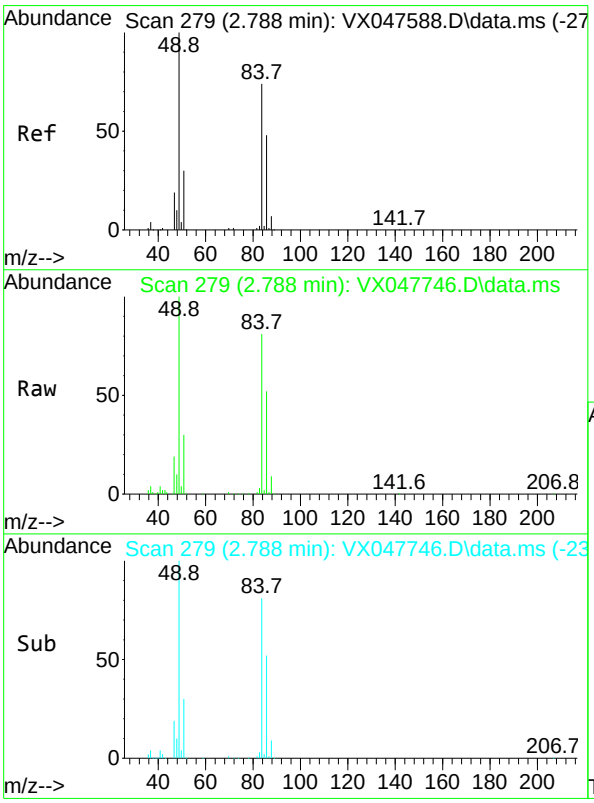
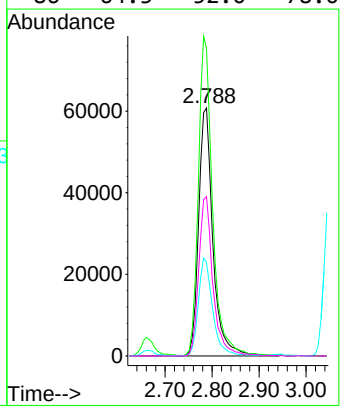
Supervised By :Mahesh Dadoda 09/26/2025

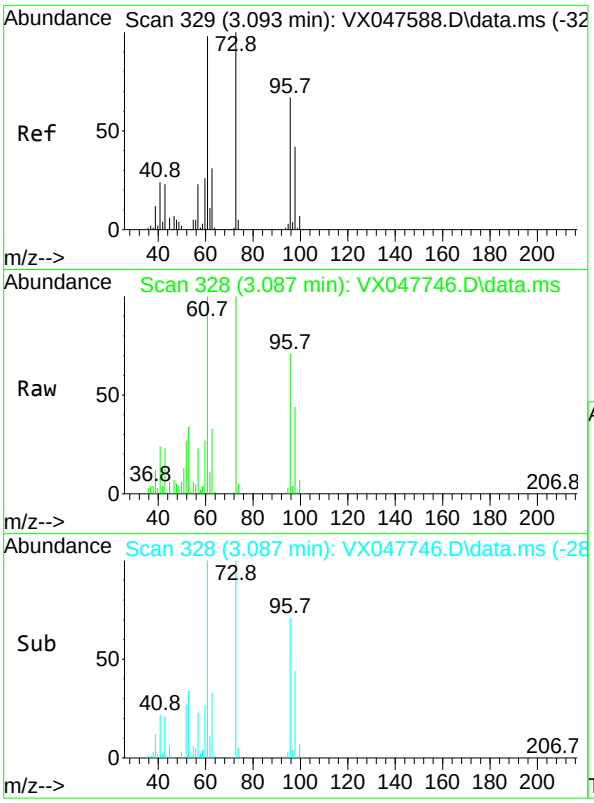


#20
Methylene Chloride
Concen: 52.632 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 84 Resp: 128569

Ion	Ratio	Lower	Upper
84	100		
49	123.6	108.6	162.8
51	37.5	32.6	48.8
86	64.3	52.0	78.0

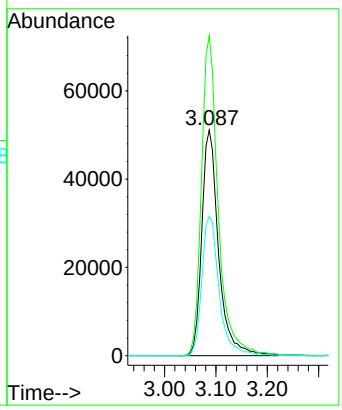




#21
trans-1,2-Dichloroethene
Concen: 54.315 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 96 Resp: 11584

Ion	Ratio	Lower	Upper
96	100		
61	141.7	116.2	174.2
98	61.7	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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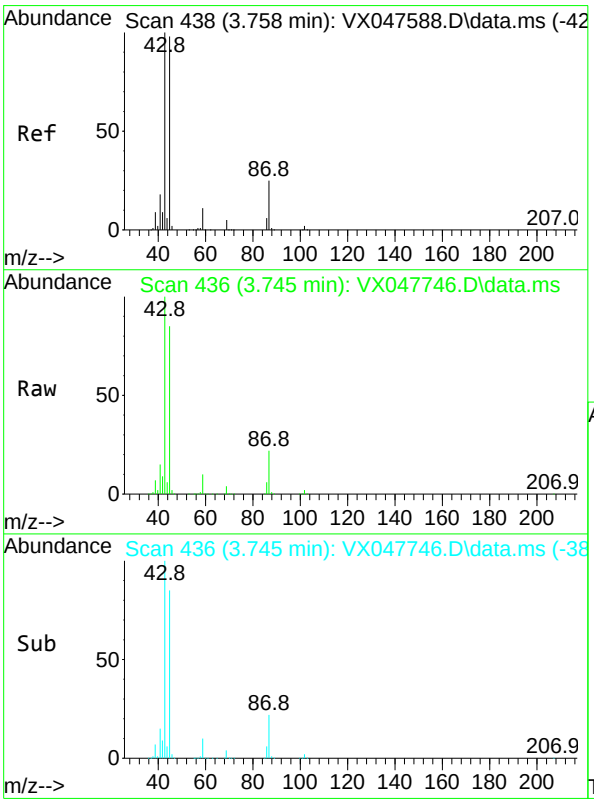
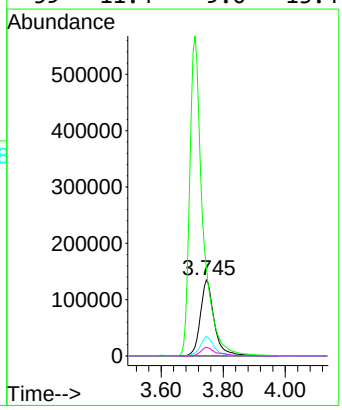
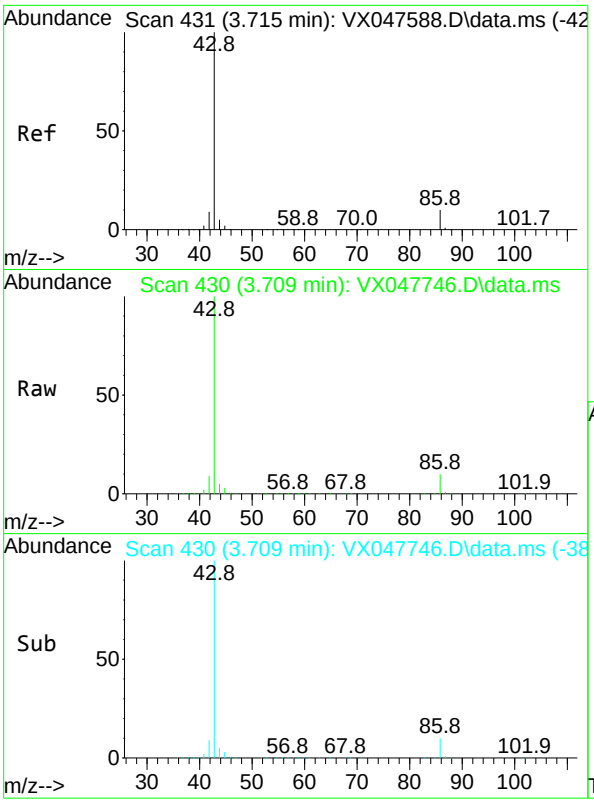


#22
Diisopropyl ether
Concen: 52.658 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 45 Resp: 417196

Ion	Ratio	Lower	Upper
45	100		
43	116.9	81.0	121.4
87	25.7	20.3	30.5
59	11.4	9.0	13.4

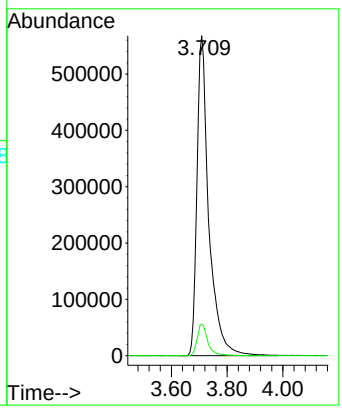




#23
Vinyl Acetate
Concen: 264.433 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 167676

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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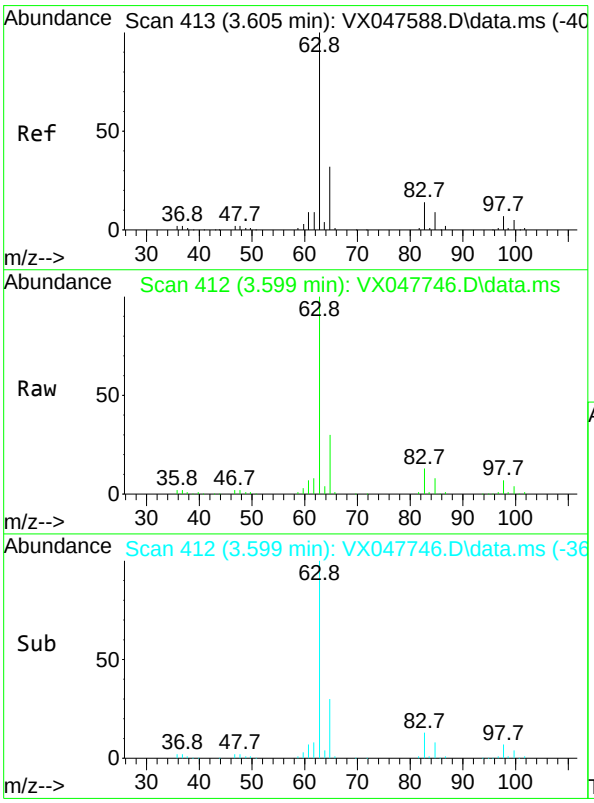
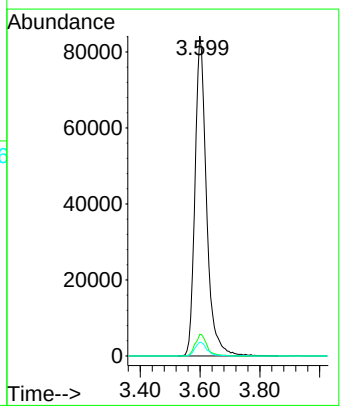
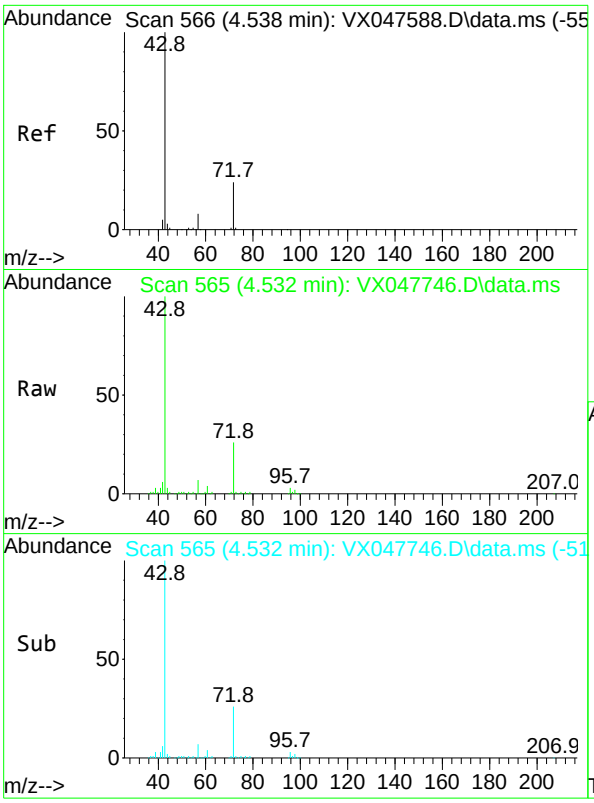


#24
1,1-Dichloroethane
Concen: 53.426 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 224981

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.4	2.3	6.9

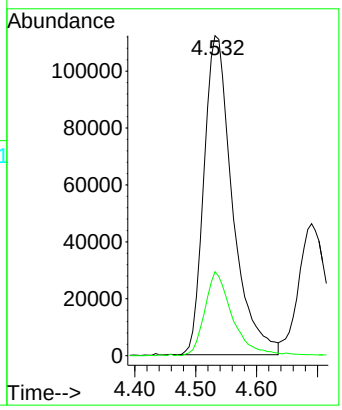




#25
2-Butanone
Concen: 253.647 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 36512

Ion	Ratio	Lower	Upper
43	100		
72	26.1	20.1	30.1



Instrument :
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ClientSampleId :
VSTDCCC050

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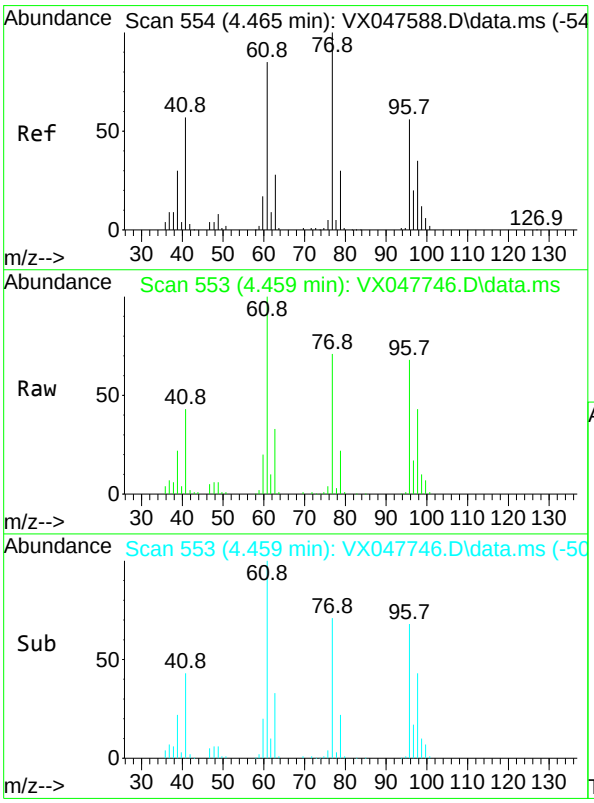
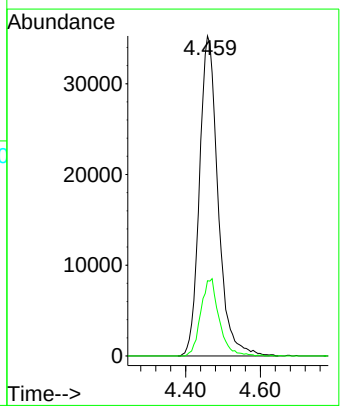
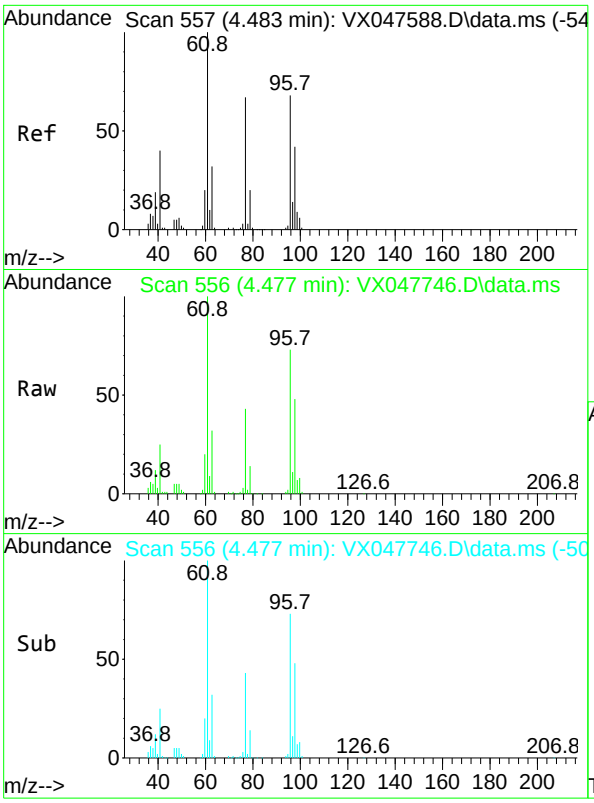


#26
2,2-Dichloropropane
Concen: 34.769 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 77 Resp: 121706

Ion	Ratio	Lower	Upper
77	100		
97	23.7	10.9	32.7





#27
cis-1,2-Dichloroethene
Concen: 52.016 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 96 Resp: 13587

Ion	Ratio	Lower	Upper
96	100		
61	144.0	0.0	303.2
98	65.3	0.0	127.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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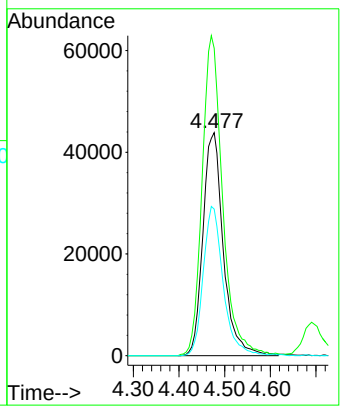
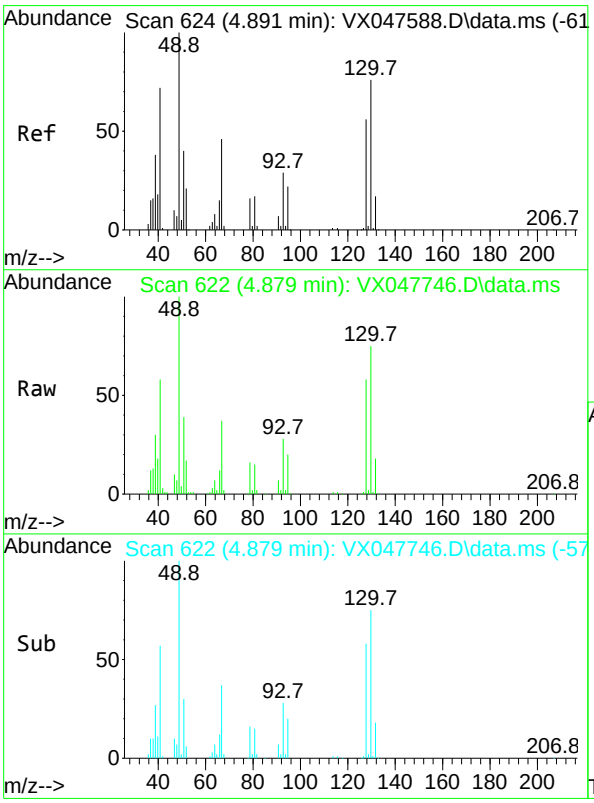
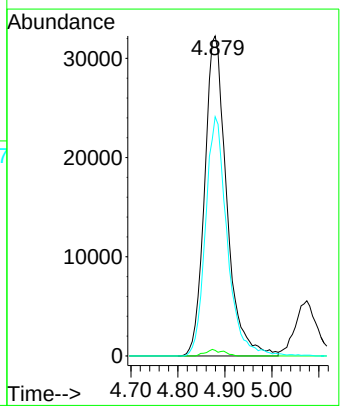


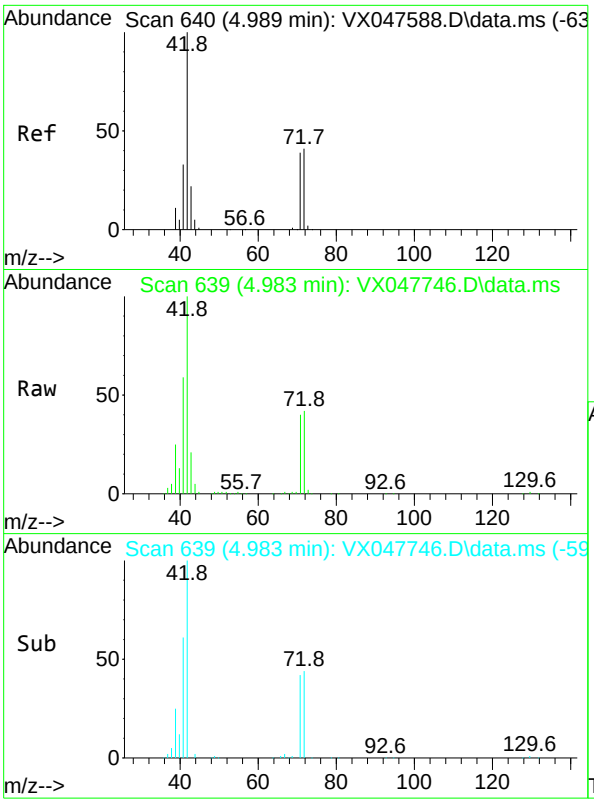


#28
Bromochloromethane
Concen: 57.010 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 49 Resp: 104808

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	73.8	57.8	86.8

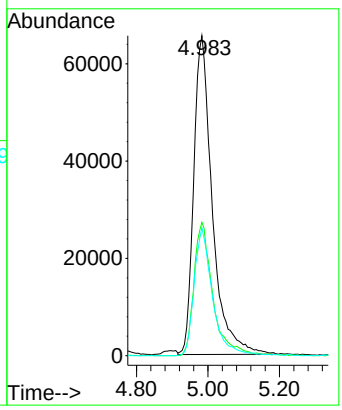




#29
Tetrahydrofuran
Concen: 272.674 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 42 Resp: 23613

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.6	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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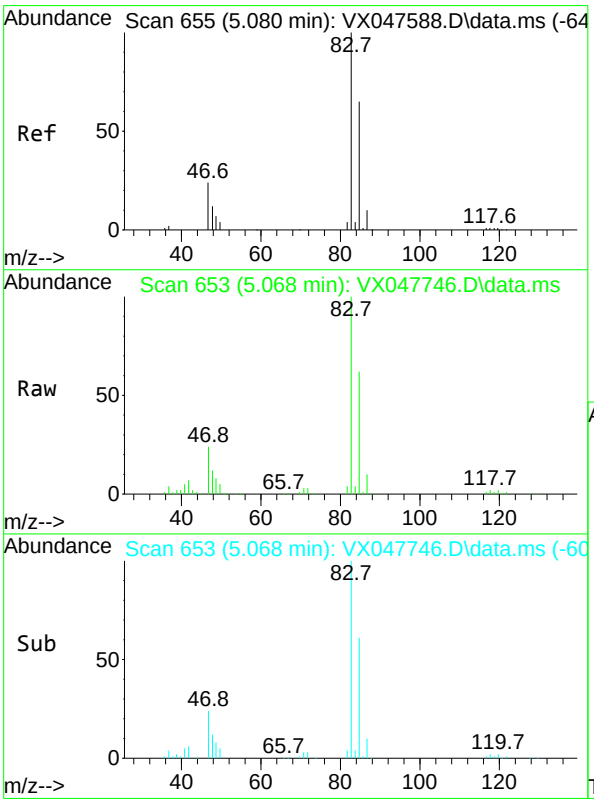
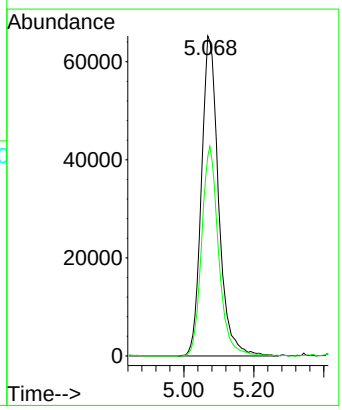
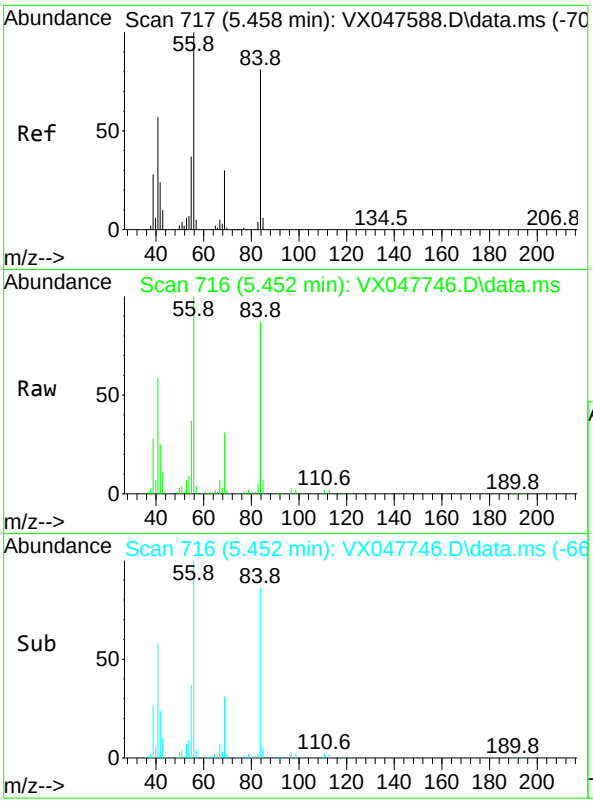


#30
Chloroform
Concen: 52.050 ug/l
RT: 5.068 min Scan# 653
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 221493

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.8	77.6

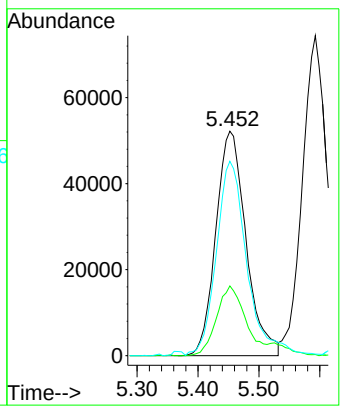




#31
Cyclohexane
Concen: 51.224 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 56 Resp: 17965

Ion	Ratio	Lower	Upper
56	100		
69	30.8	23.8	35.8
84	84.7	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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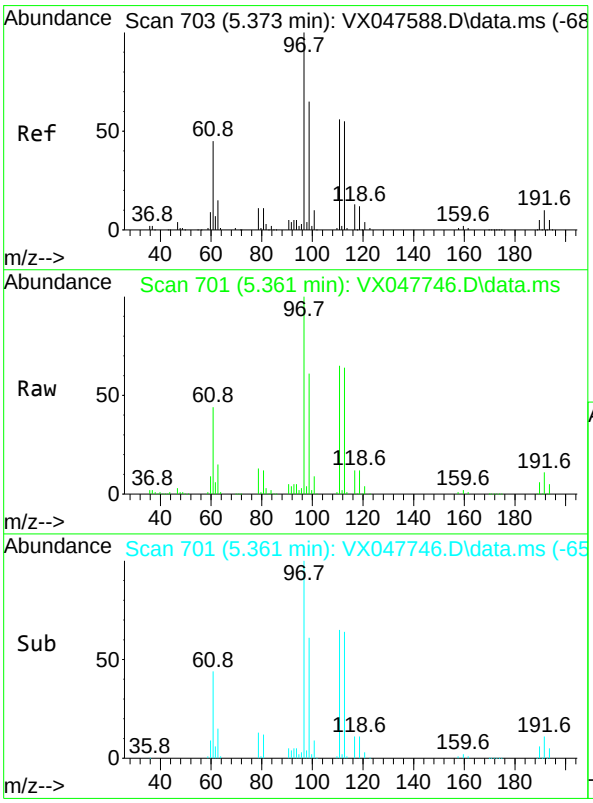
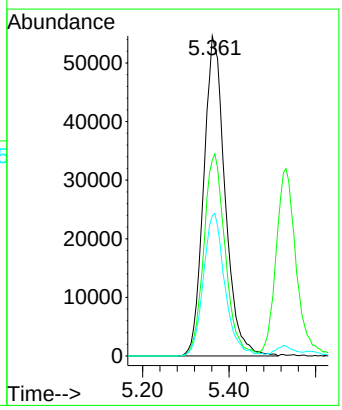
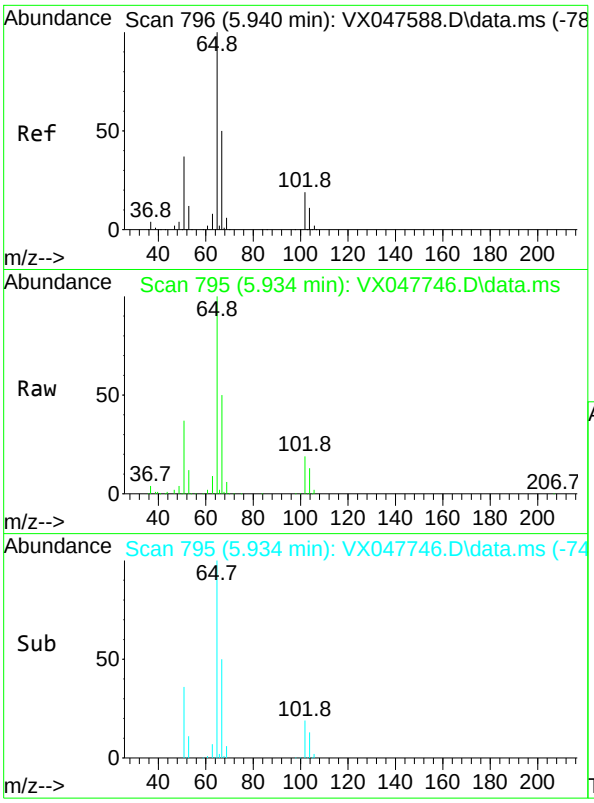


#32
1,1,1-Trichloroethane
Concen: 51.890 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 97 Resp: 187296

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.6	76.0
61	44.8	35.8	53.8

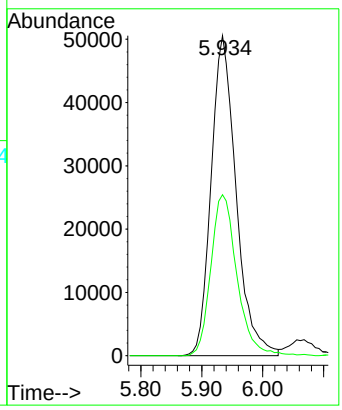




#33
1,2-Dichloroethane-d4
Concen: 54.210 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 65 Resp: 14388

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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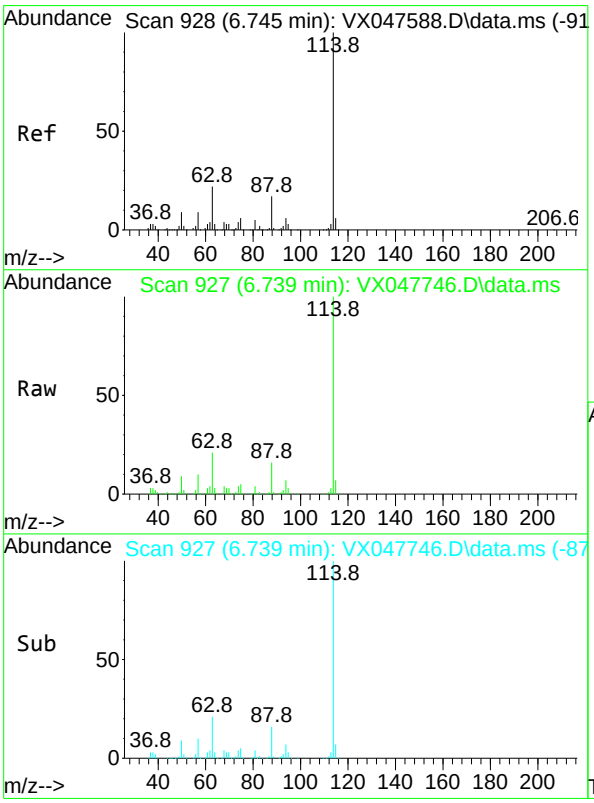
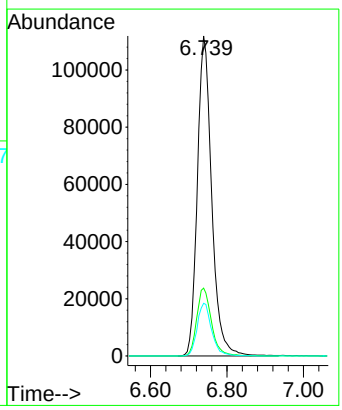
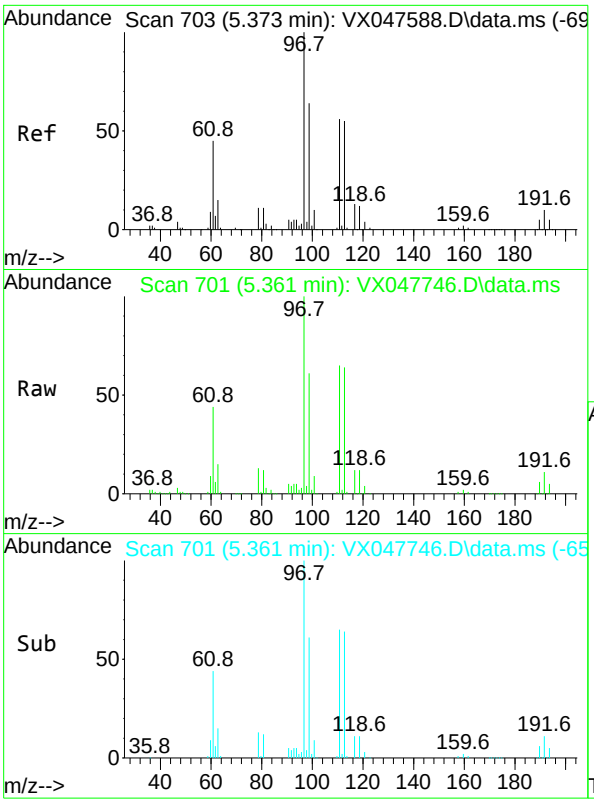


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:114 Resp: 290663

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.4	0.0	34.2

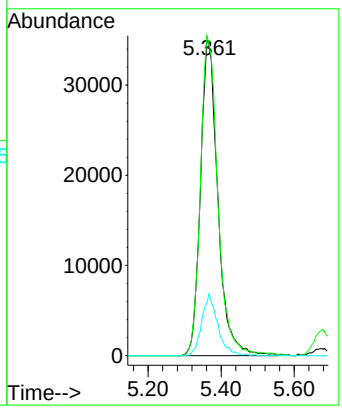




#35
Dibromofluoromethane
Concen: 59.312 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:113 Resp: 11562

Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.9	121.3
192	17.9	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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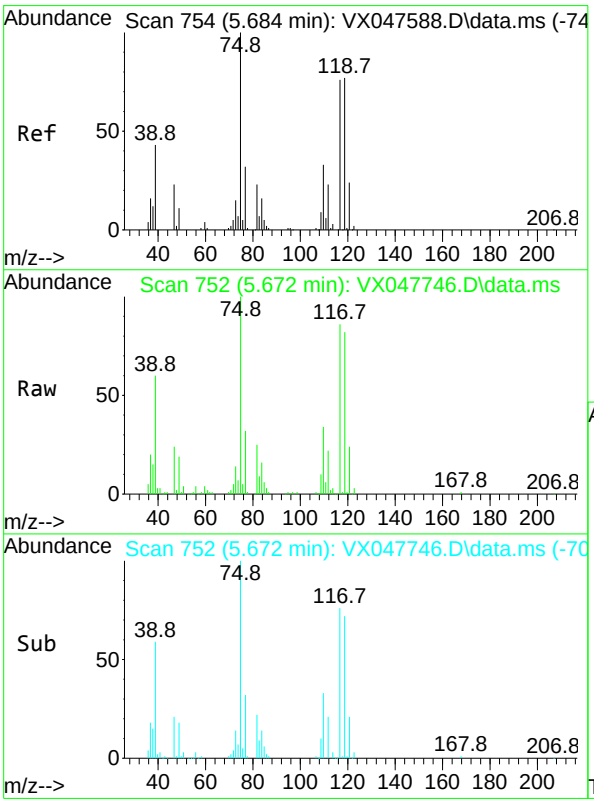
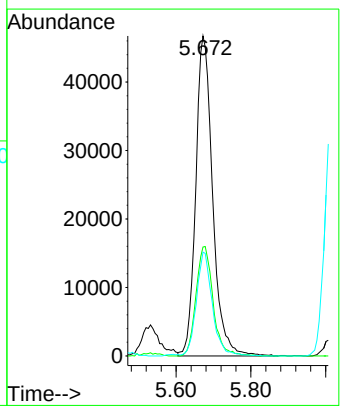
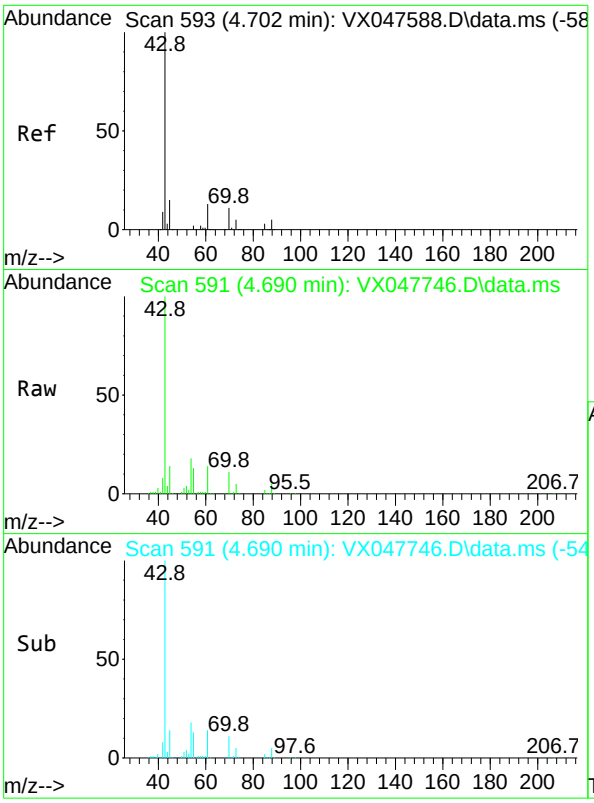


#36
1,1-Dichloropropene
Concen: 51.432 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 146503

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	30.3	24.3	36.5

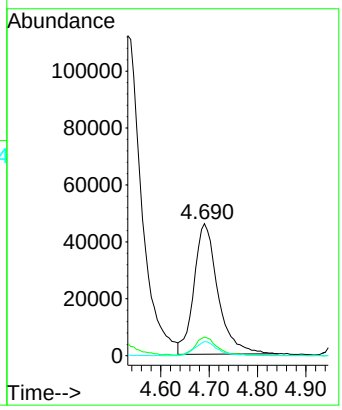




#37
Ethyl Acetate
Concen: 51.660 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 15755

Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.8	14.8
70	10.4	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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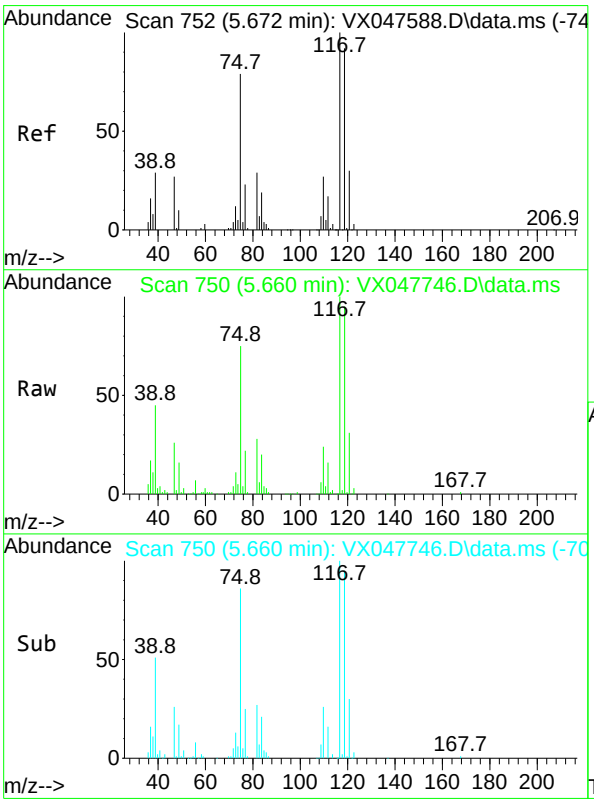
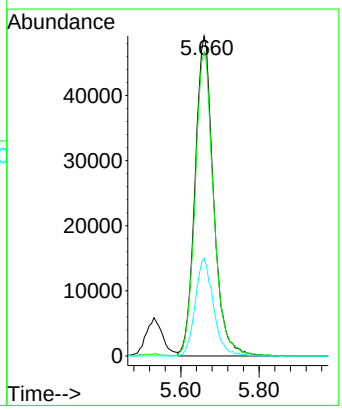
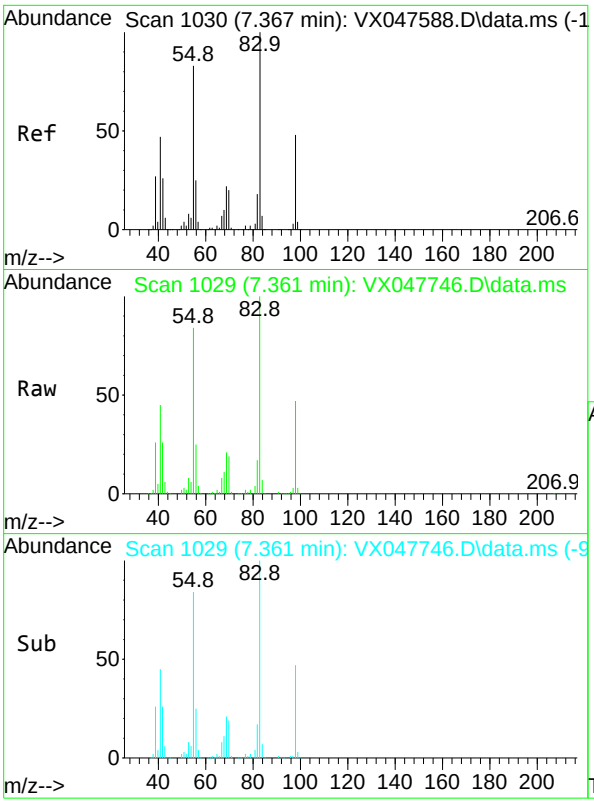


#38
Carbon Tetrachloride
Concen: 51.986 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 160891

Ion	Ratio	Lower	Upper
117	100		
119	94.8	73.4	110.2
121	30.6	23.8	35.6

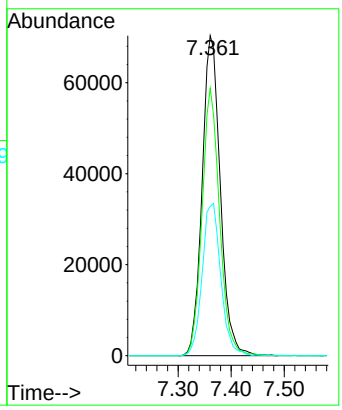




#39
Methylcyclohexane
Concen: 51.777 ug/l
RT: 7.361 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 16741

Ion	Ratio	Lower	Upper
83	100		
55	83.5	66.4	99.6
98	46.6	38.1	57.1



Instrument :
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ClientSampleId :
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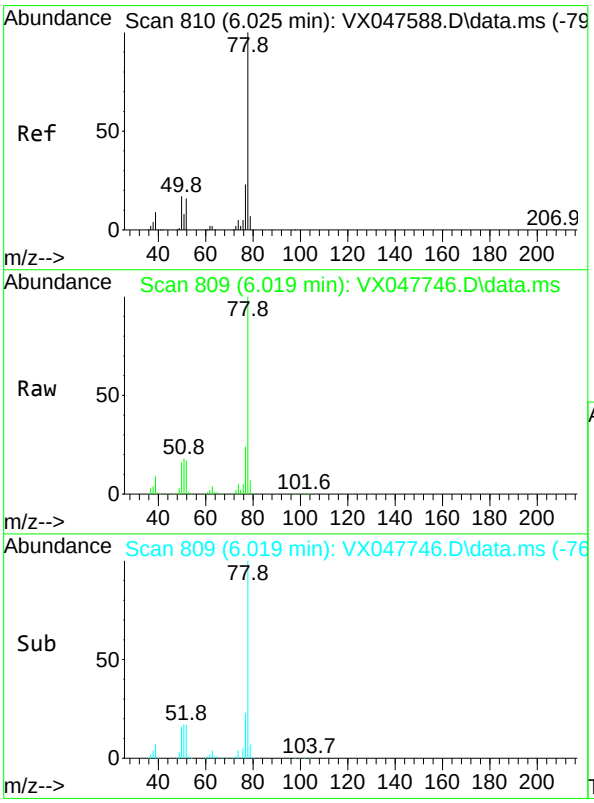
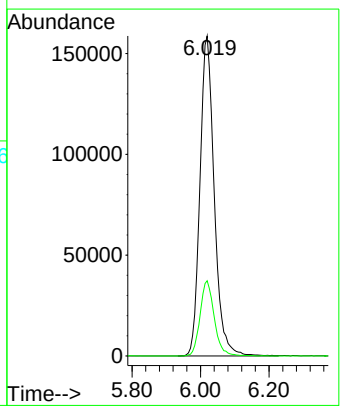
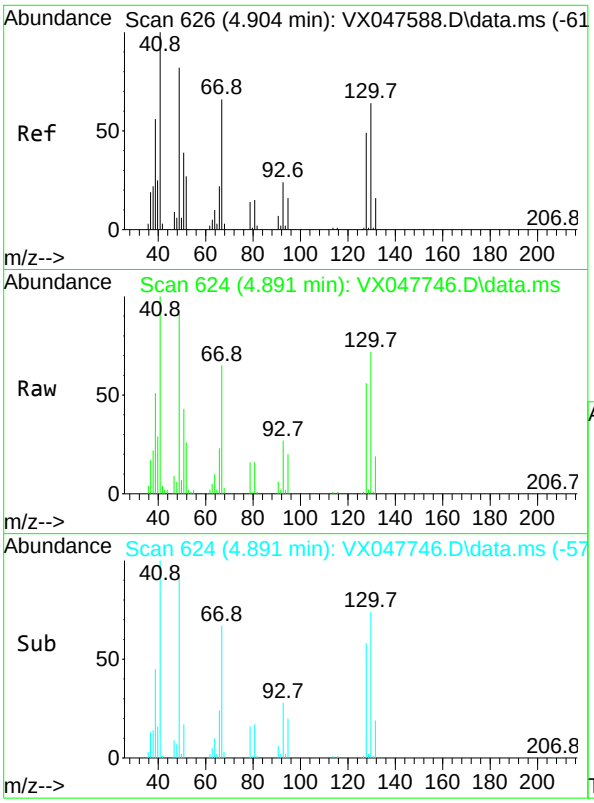


#40
Benzene
Concen: 53.223 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 78 Resp: 460455

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

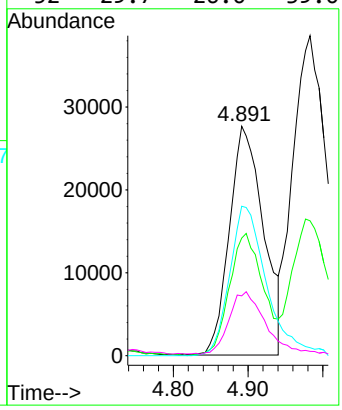




#41
Methacrylonitrile
Concen: 55.742 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 8776

Ion	Ratio	Lower	Upper
41	100		
39	53.4	43.3	64.9
67	70.6	58.6	87.8
52	29.7	26.0	39.0



Instrument :
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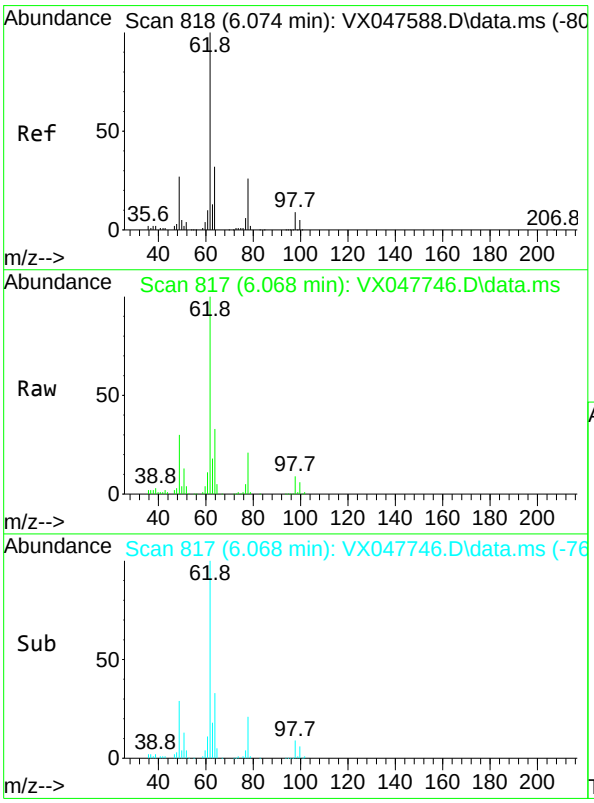
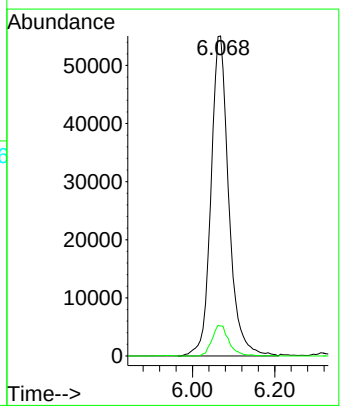
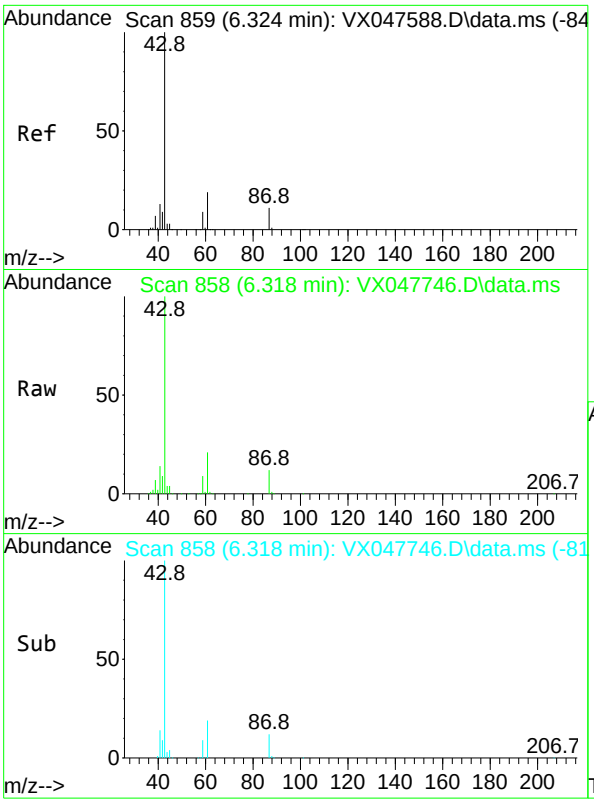


#42
1,2-Dichloroethane
Concen: 50.209 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 62 Resp: 165276

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0

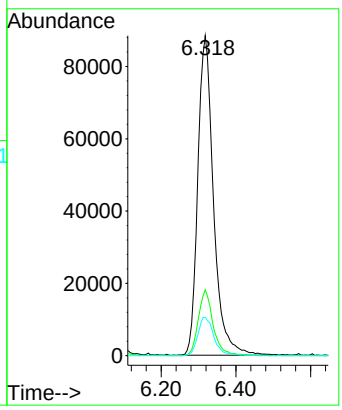




#43
Isopropyl Acetate
Concen: 51.528 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 25774

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.2	22.8
87	12.4	9.6	14.4



Instrument :
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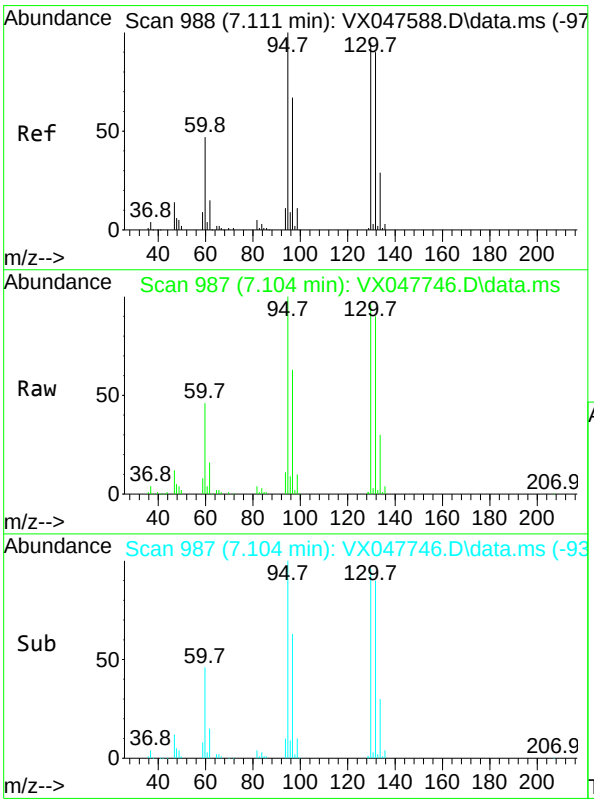
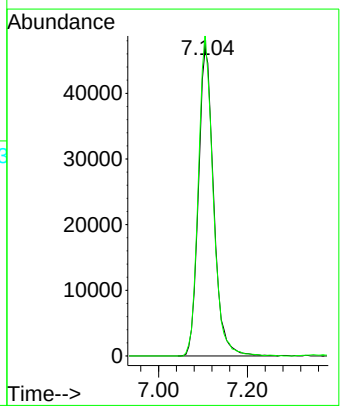
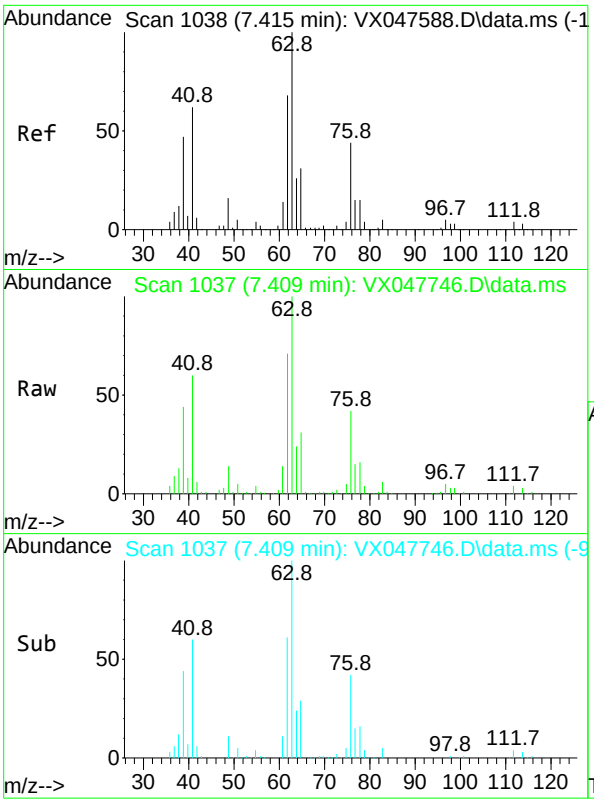


#44
Trichloroethene
Concen: 53.736 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:130 Resp: 112394

Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	210.8

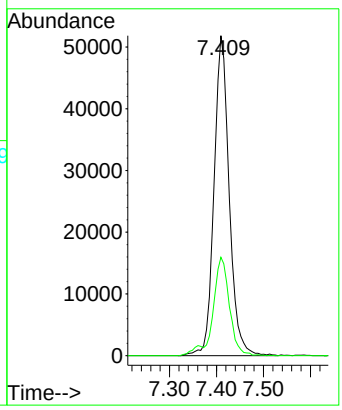




#45
1,2-Dichloropropane
Concen: 52.565 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 11644

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
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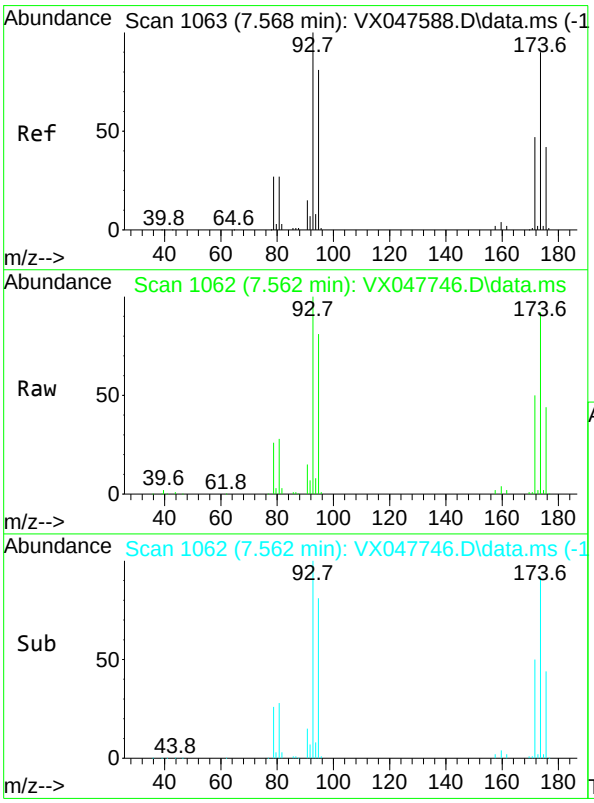
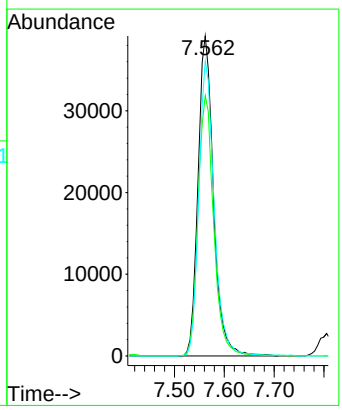
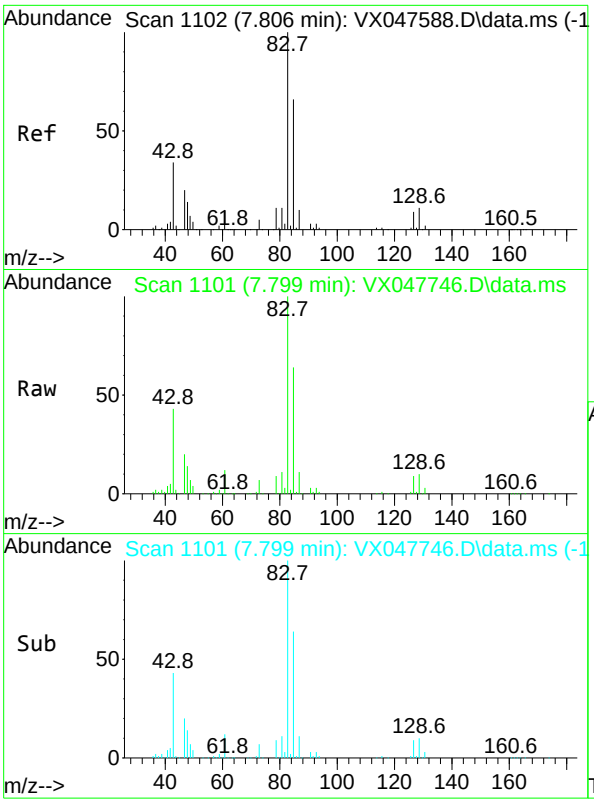


#46
Dibromomethane
Concen: 52.418 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 93 Resp: 84502

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.0	97.6
174	91.4	71.6	107.4

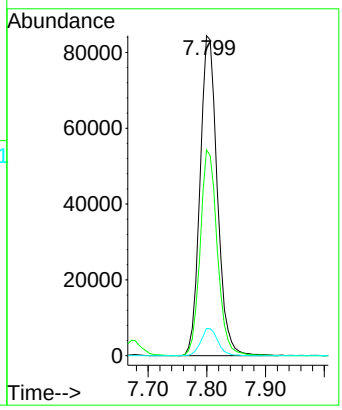




#47
Bromodichloromethane
Concen: 51.915 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 17270

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7
127	8.5	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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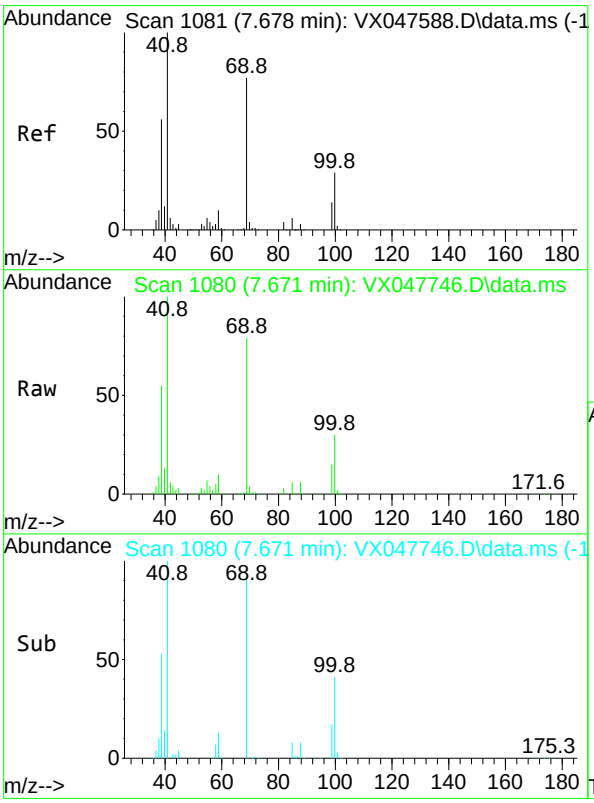
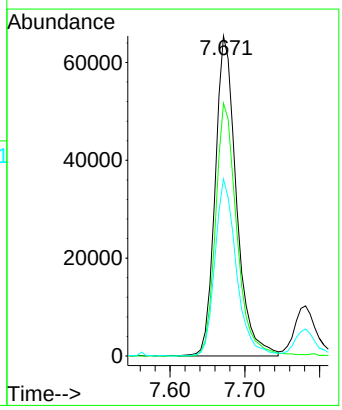
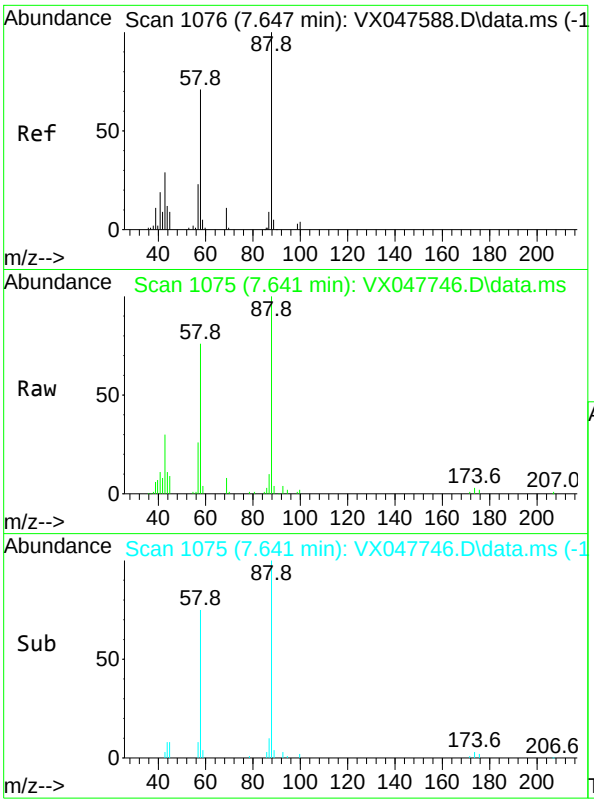


#48
Methyl methacrylate
Concen: 51.974 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 129497

Ion	Ratio	Lower	Upper
41	100		
69	78.9	61.4	92.2
39	55.9	45.8	68.6

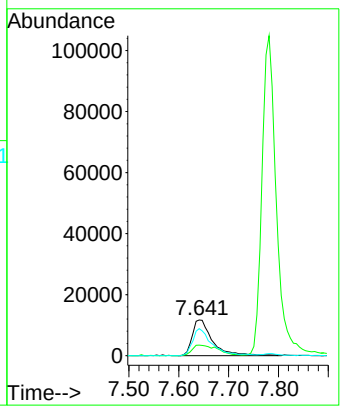




#49
1,4-Dioxane
Concen: 1306.764 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 88 Resp: 3290

Ion	Ratio	Lower	Upper
88	100		
43	38.2	30.2	45.2
58	73.3	59.5	89.3



Instrument :
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ClientSampleId :
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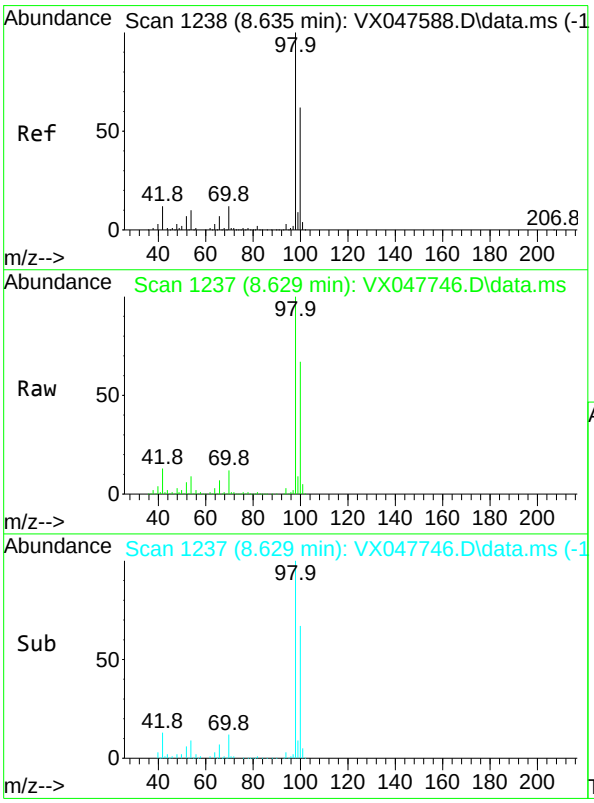
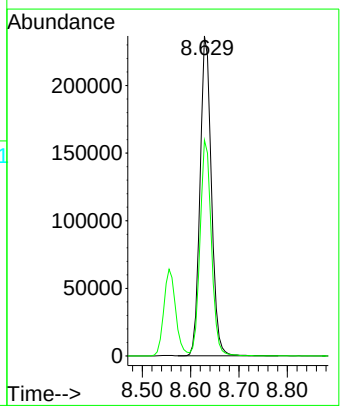
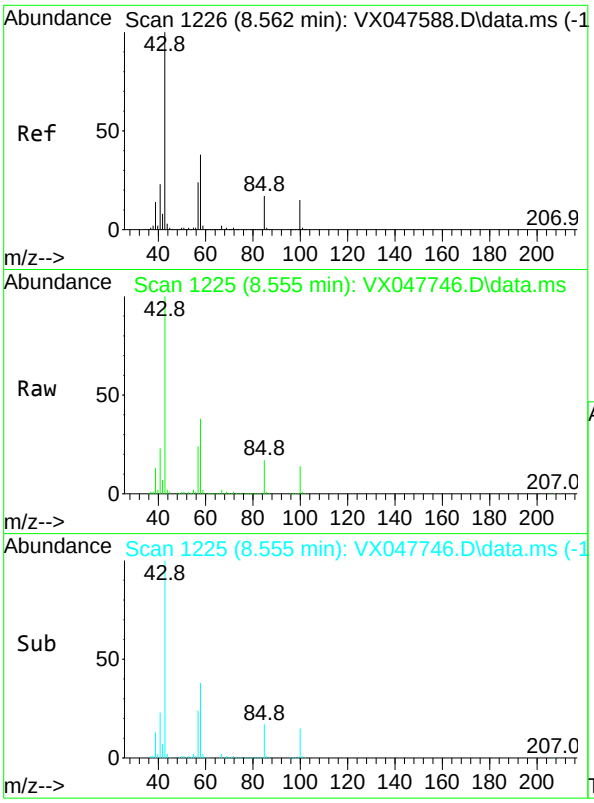


#50
Toluene-d8
Concen: 57.106 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 98 Resp: 385188

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4

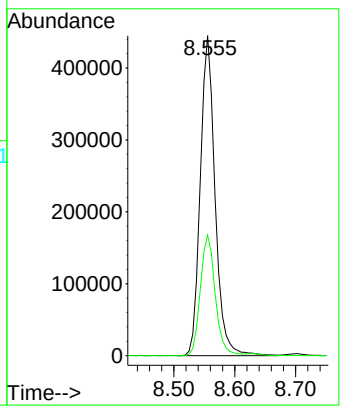




#51
4-Methyl-2-Pentanone
Concen: 270.171 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 74927

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



Instrument :
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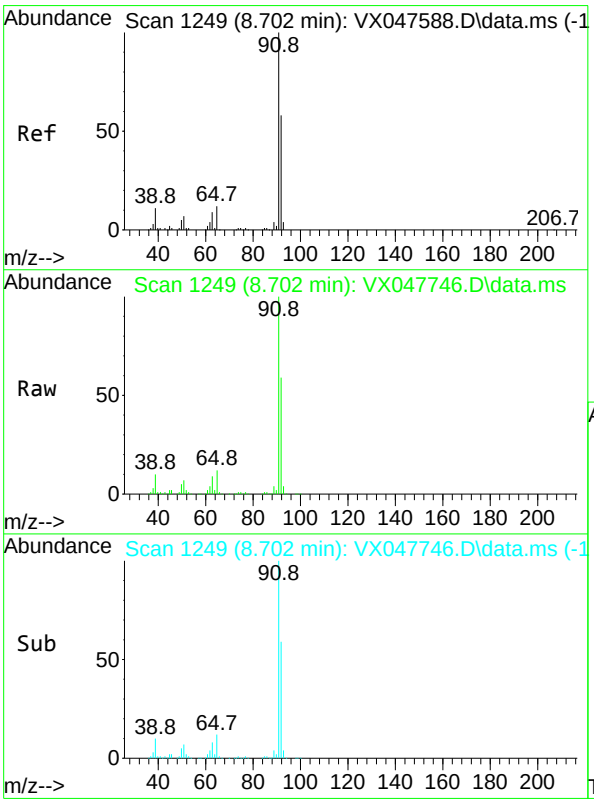
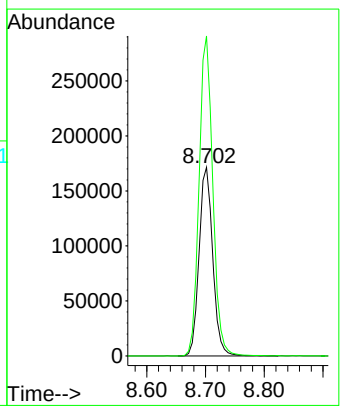
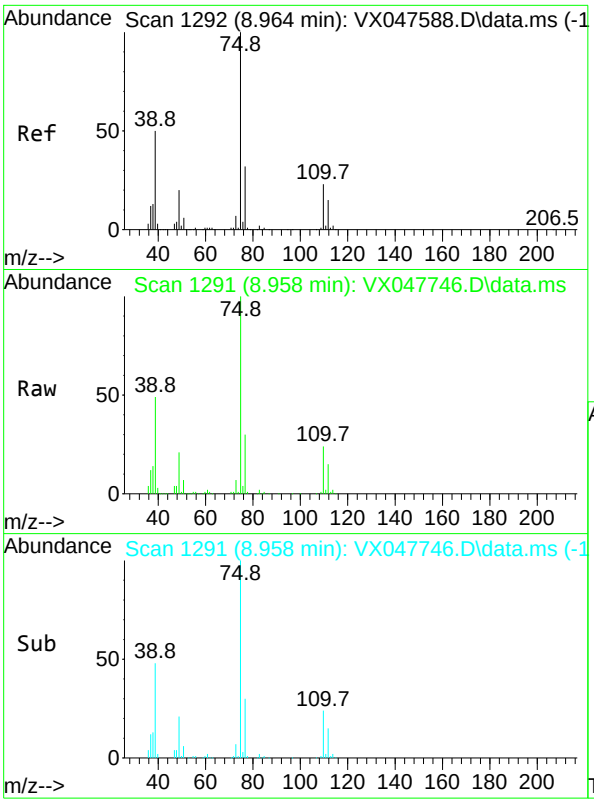


#52
Toluene
Concen: 51.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 92 Resp: 276160

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7

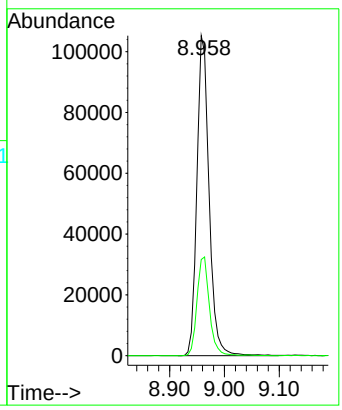




#53
t-1,3-Dichloropropene
Concen: 48.037 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 16300

Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.4	38.2



Instrument :
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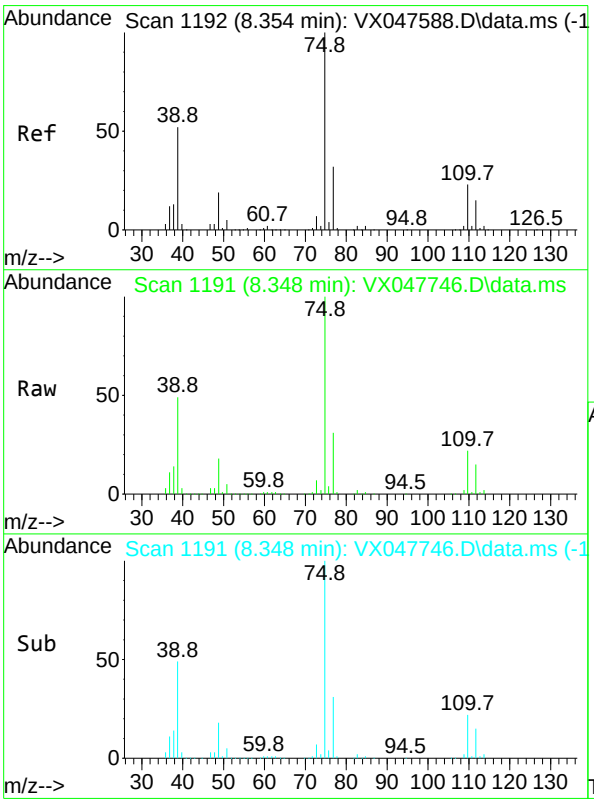
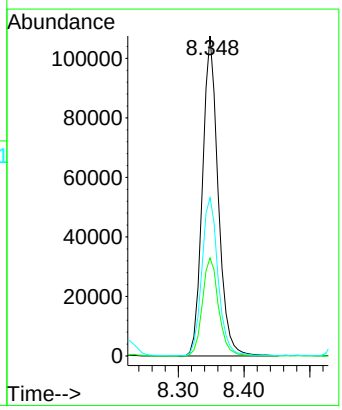
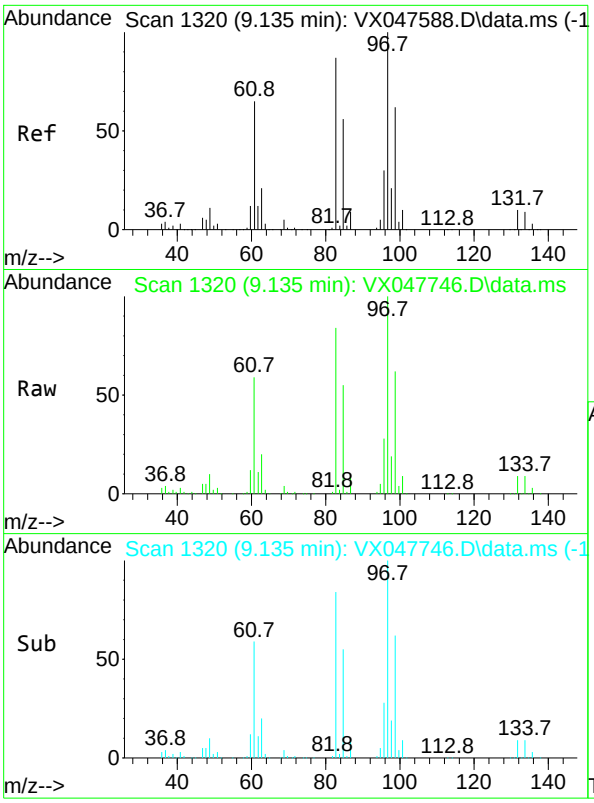


#54
cis-1,3-Dichloropropene
Concen: 49.218 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 178505

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.8	38.6
39	48.9	41.4	62.2

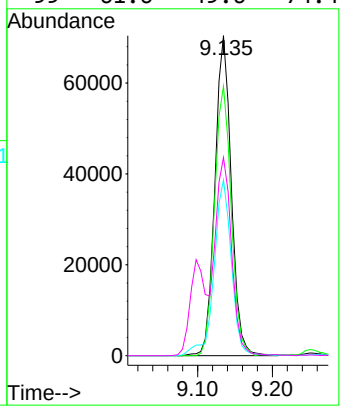




#55
1,1,2-Trichloroethane
Concen: 52.187 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 97 Resp: 10725

Ion	Ratio	Lower	Upper
97	100		
83	84.2	69.6	104.4
85	55.0	45.0	67.6
99	61.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
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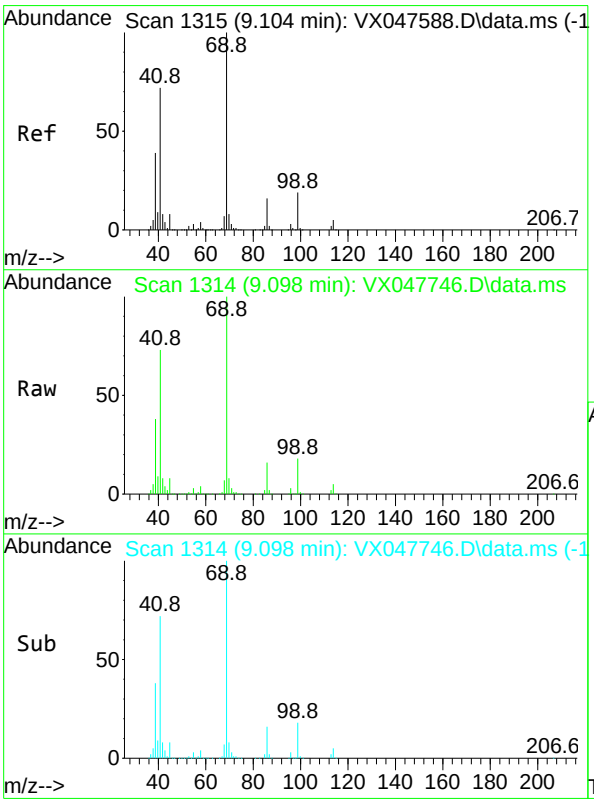
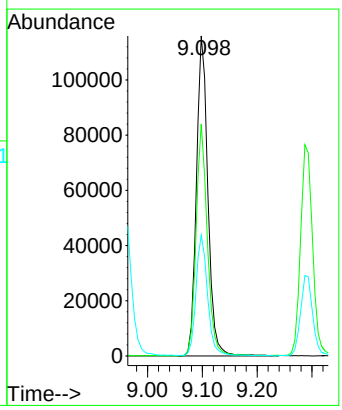
Supervised By :Mahesh Dadoda 09/26/2025

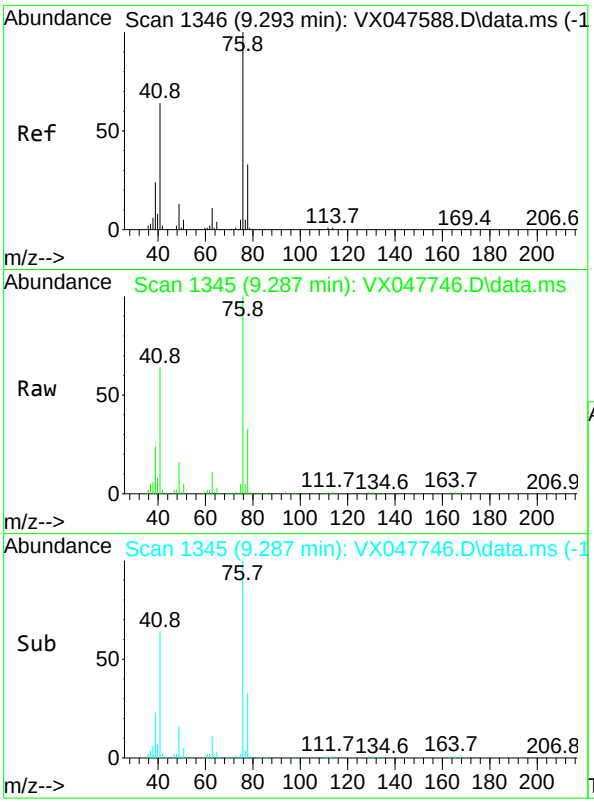


#56
Ethyl methacrylate
Concen: 52.534 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 69 Resp: 169567

Ion	Ratio	Lower	Upper
69	100		
41	70.6	58.6	87.8
39	37.8	31.5	47.3

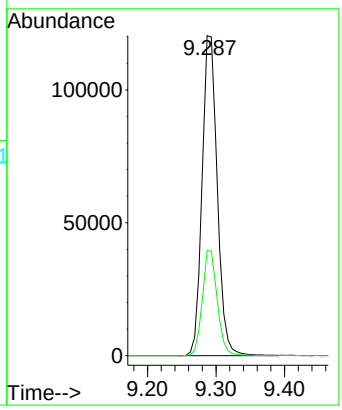




#57
1,3-Dichloropropane
Concen: 52.699 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 76 Resp: 18606

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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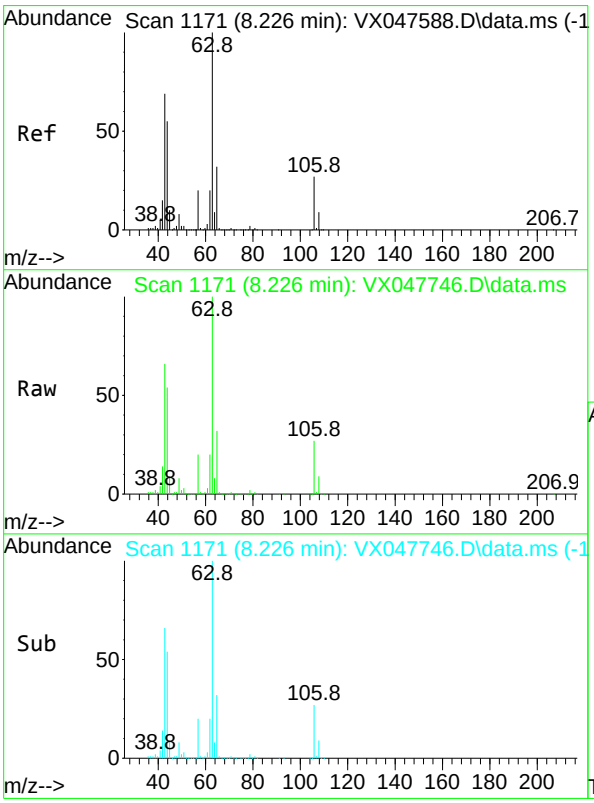
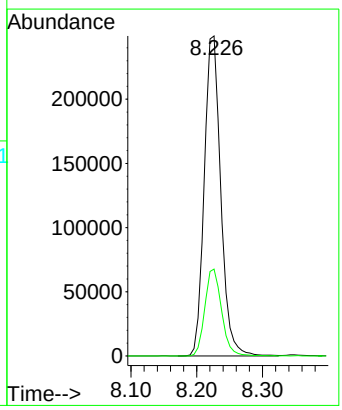
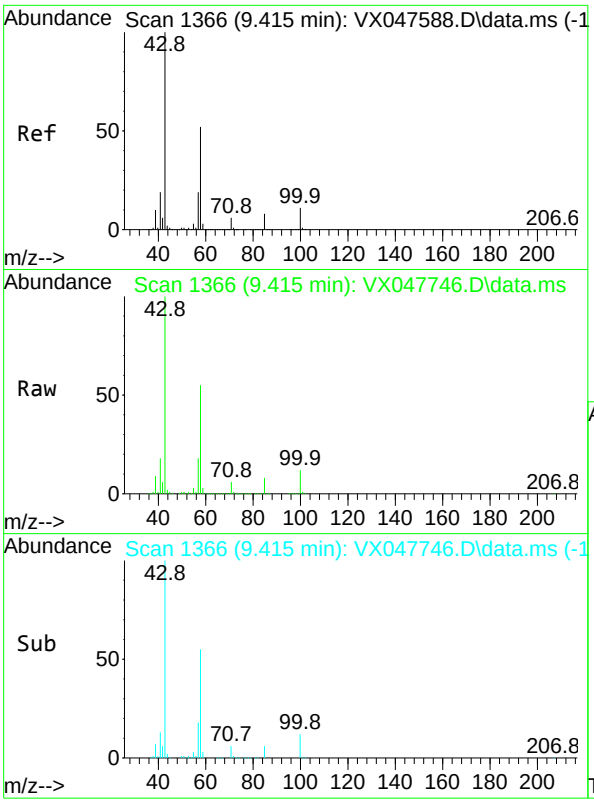


#58
2-Chloroethyl Vinyl ether
Concen: 280.568 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 436211

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9

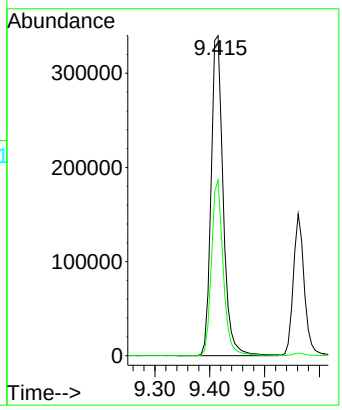




#59
2-Hexanone
Concen: 260.122 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 51811

Ion	Ratio	Lower	Upper
43	100		
58	53.4	26.1	78.2



Instrument :
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ClientSampleId :
VSTDCCC050

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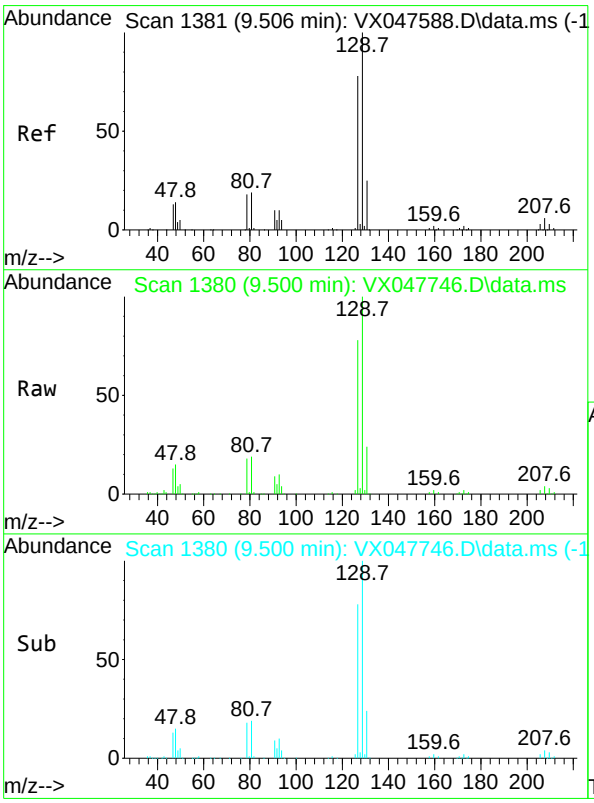
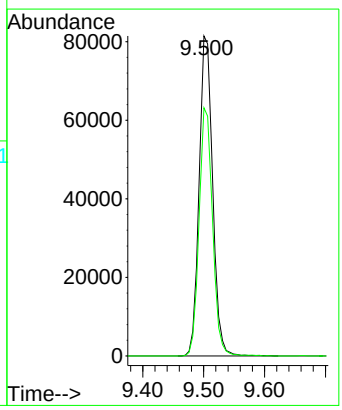
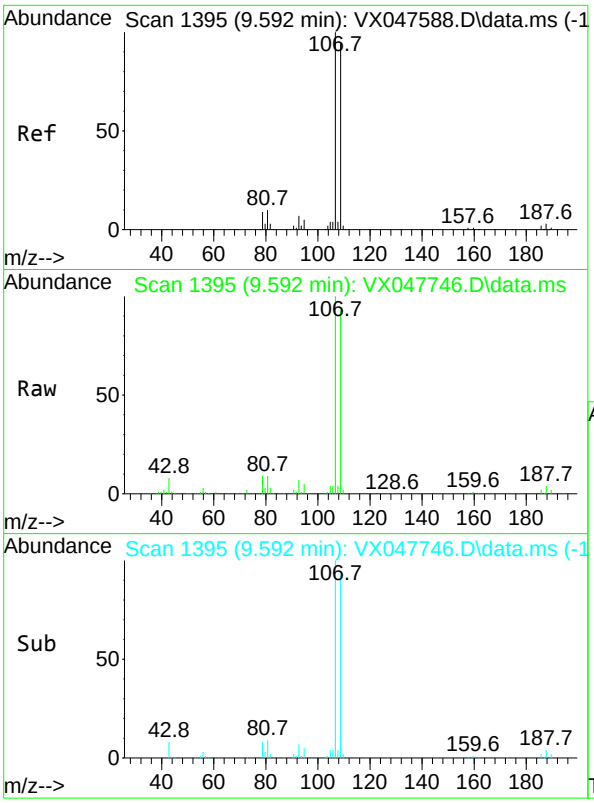


#60
Dibromochloromethane
Concen: 52.954 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:129 Resp: 125404

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.4	115.2

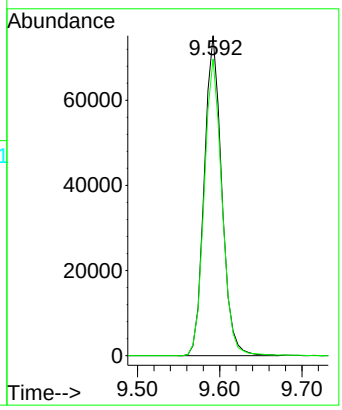




#61
1,2-Dibromoethane
Concen: 53.090 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:107 Resp: 11113

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 09/24/2025
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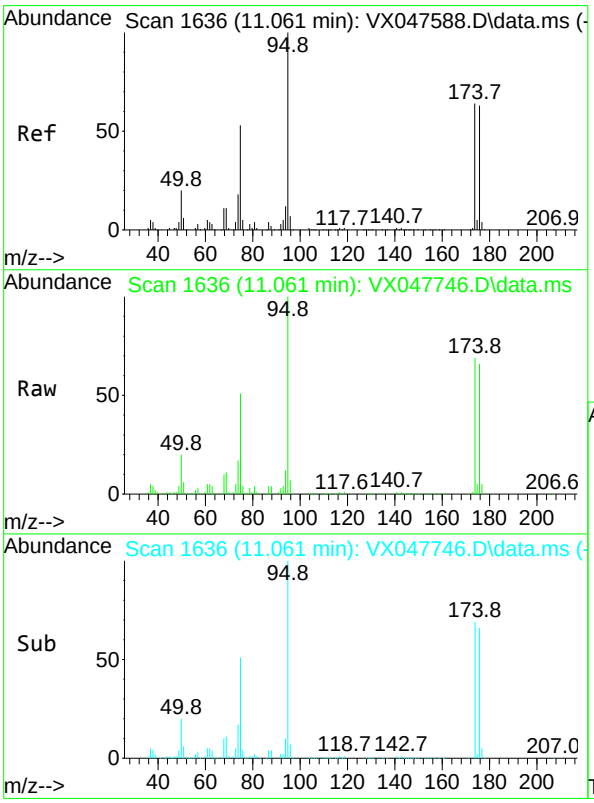
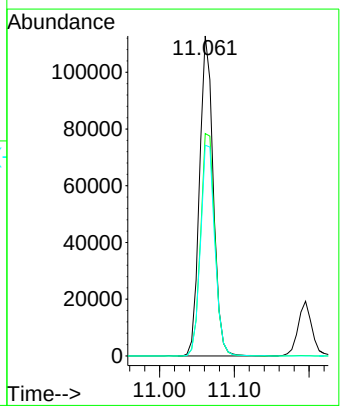
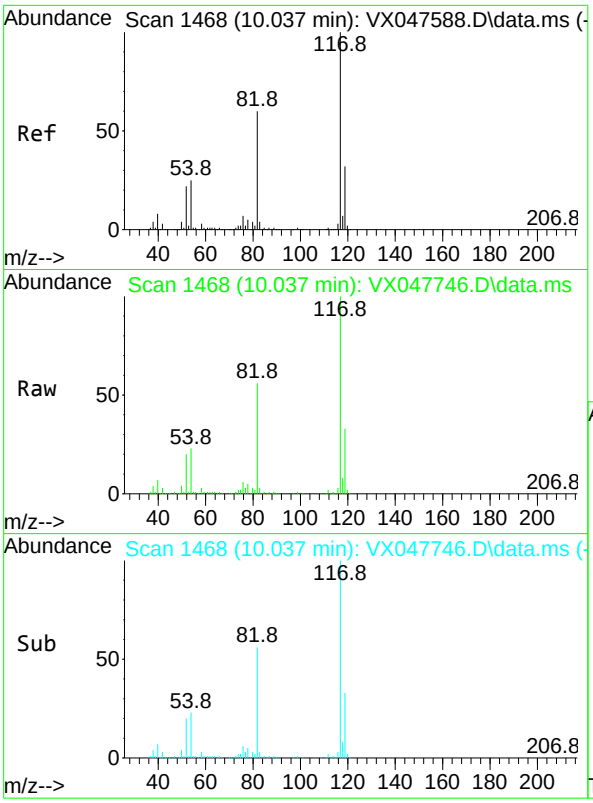


#62
4-Bromofluorobenzene
Concen: 55.994 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 95 Resp: 143339

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	141.6
176	69.0	0.0	138.4

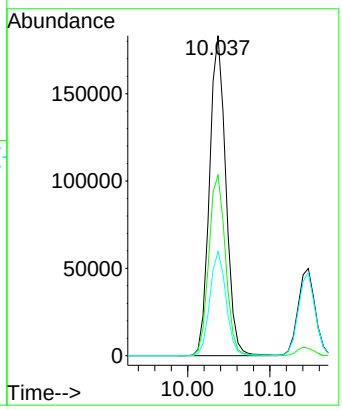




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 25277

Ion	Ratio	Lower	Upper
117	100		
82	56.4	47.8	71.6
119	32.6	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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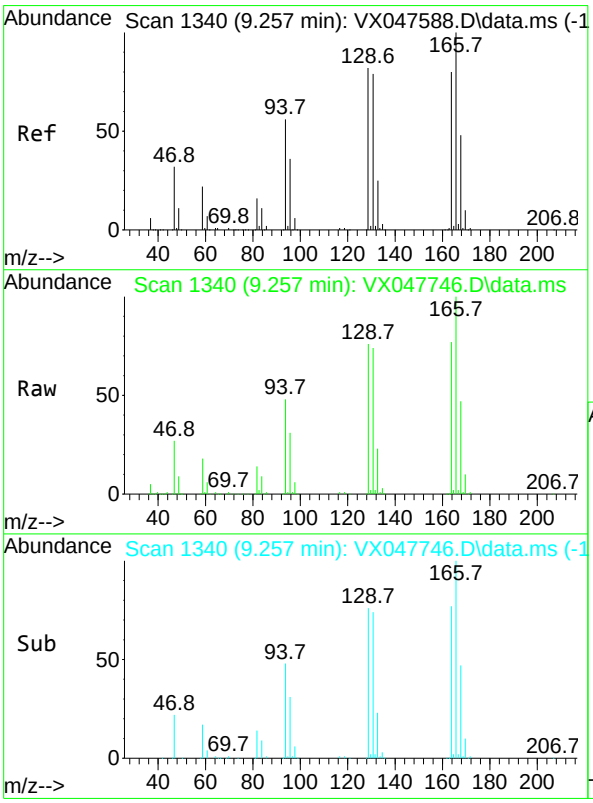
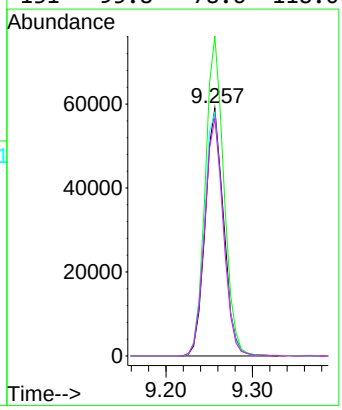
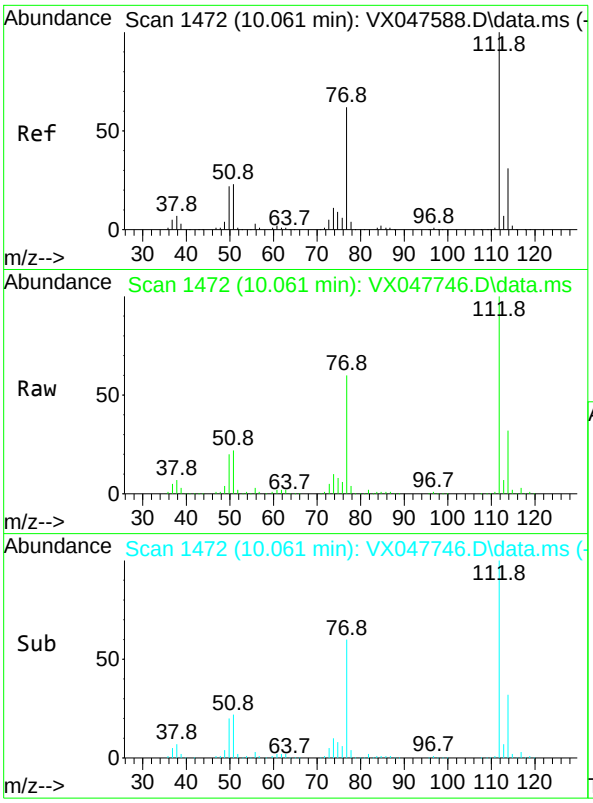


#64
Tetrachloroethene
Concen: 53.073 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:164 Resp: 87453

Ion	Ratio	Lower	Upper
164	100		
166	129.1	100.2	150.2
129	98.3	81.8	122.6
131	95.8	78.6	118.0

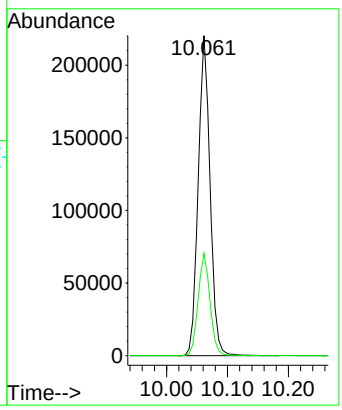




#65
Chlorobenzene
Concen: 51.885 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:112 Resp: 29794

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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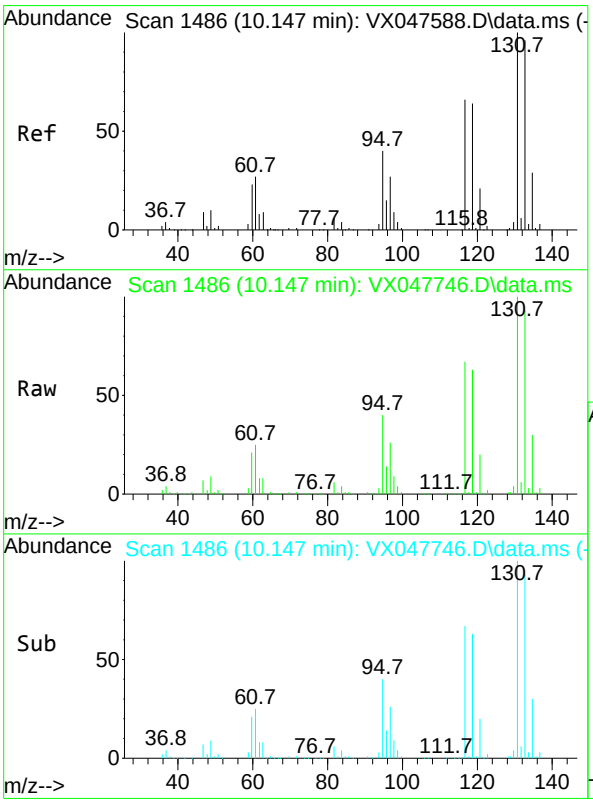
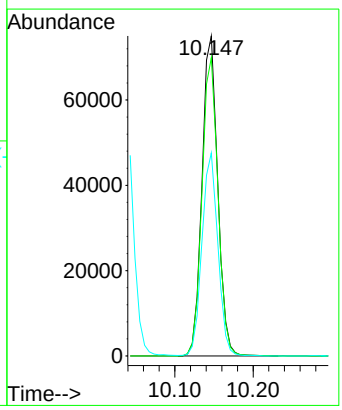
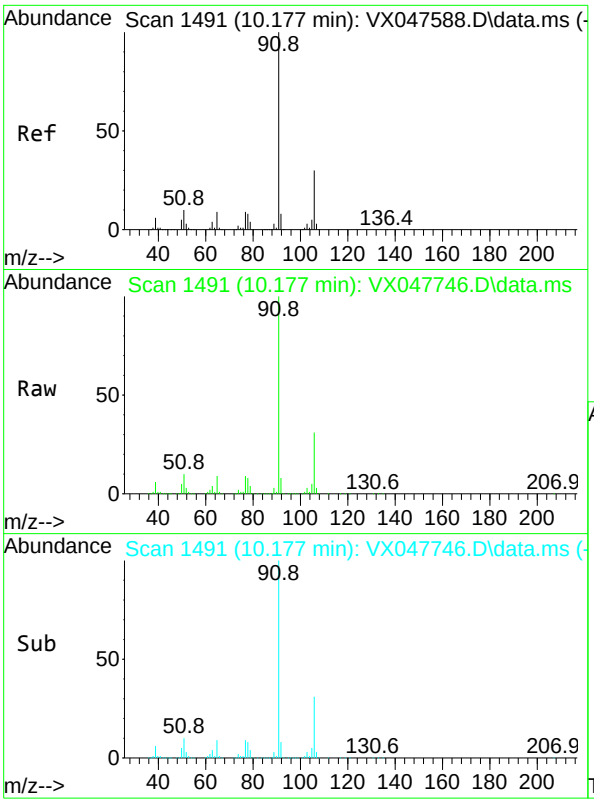


#66
1,1,1,2-Tetrachloroethane
Concen: 52.679 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:131 Resp: 104386

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	142.0
119	64.4	32.0	96.0





#67
Ethyl Benzene
Concen: 52.120 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 51641

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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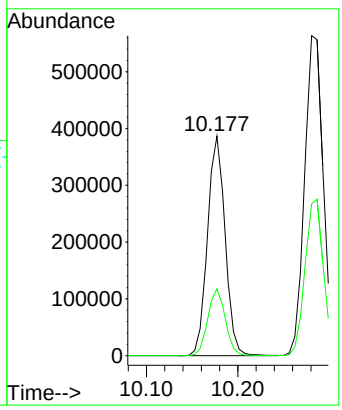
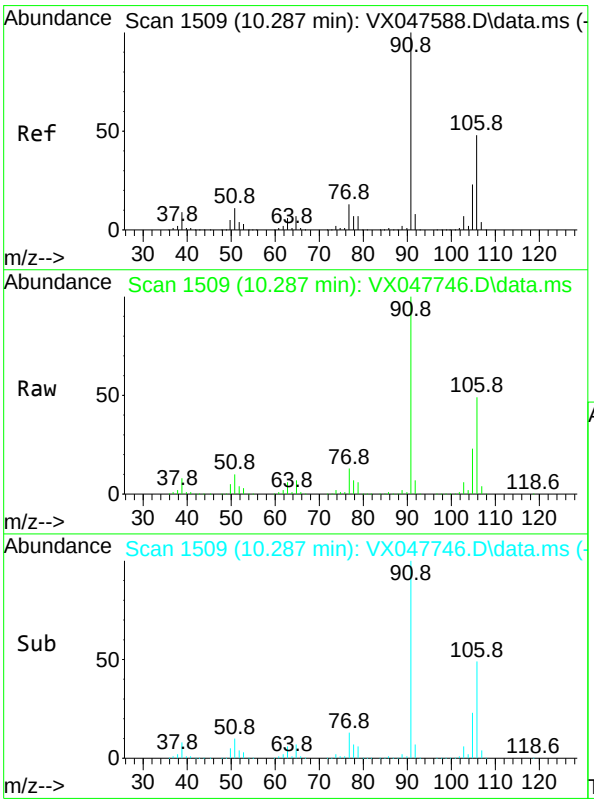
Supervised By :Mahesh Dadoda 09/26/2025

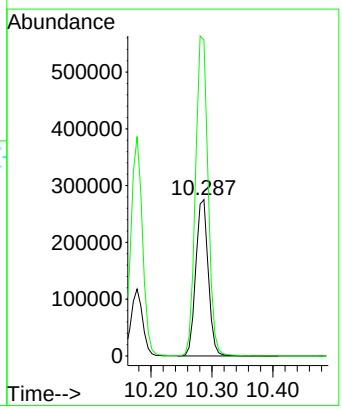


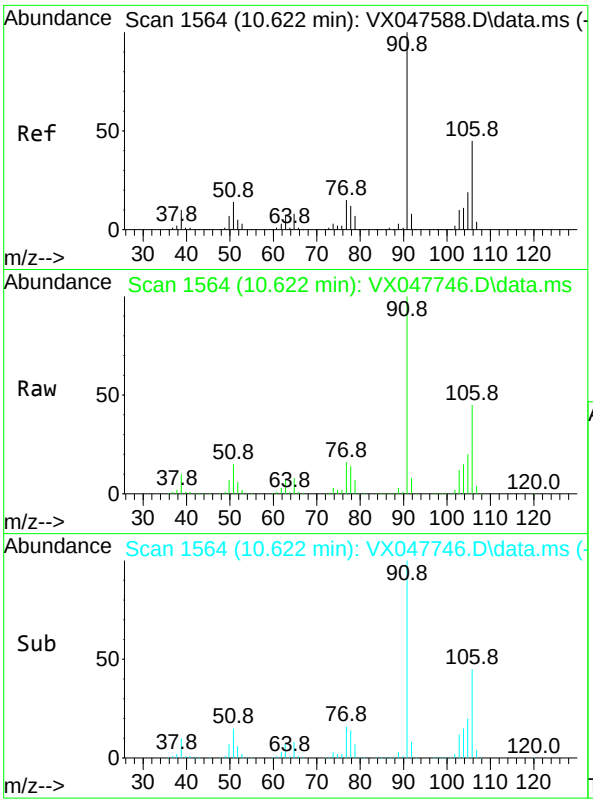


#68
m/p-Xylenes
Concen: 106.017 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:106 Resp: 390979

Ion	Ratio	Lower	Upper
106	100		
91	206.2	167.8	251.8

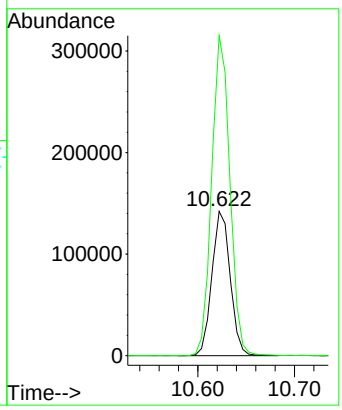




#69
o-Xylene
Concen: 52.481 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:106 Resp: 18720

Ion	Ratio	Lower	Upper
106	100		
91	220.0	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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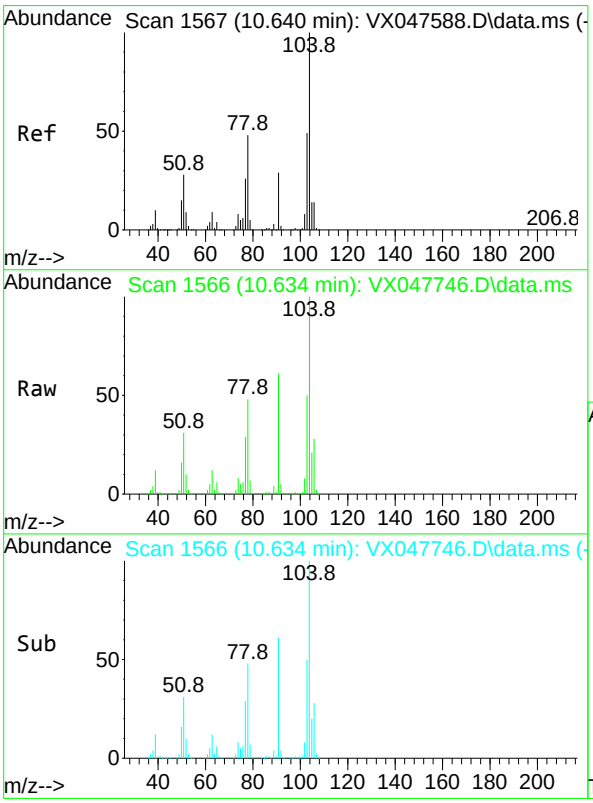
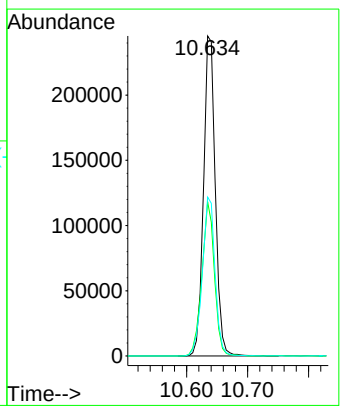
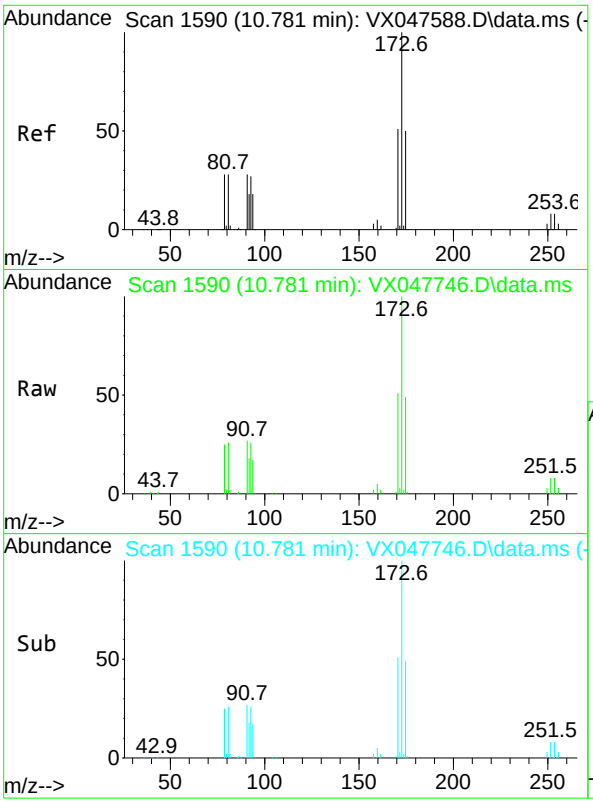


#70
Styrene
Concen: 52.908 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:104 Resp: 330686

Ion	Ratio	Lower	Upper
104	100		
78	51.2	43.1	64.7
103	53.7	43.1	64.7

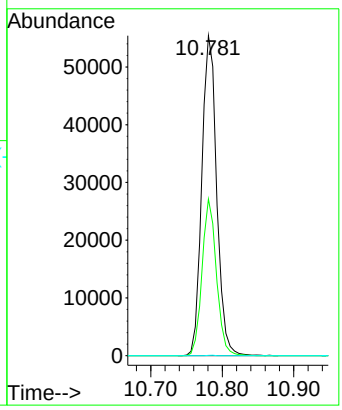




#71
Bromoform
Concen: 54.161 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:173 Resp: 8013

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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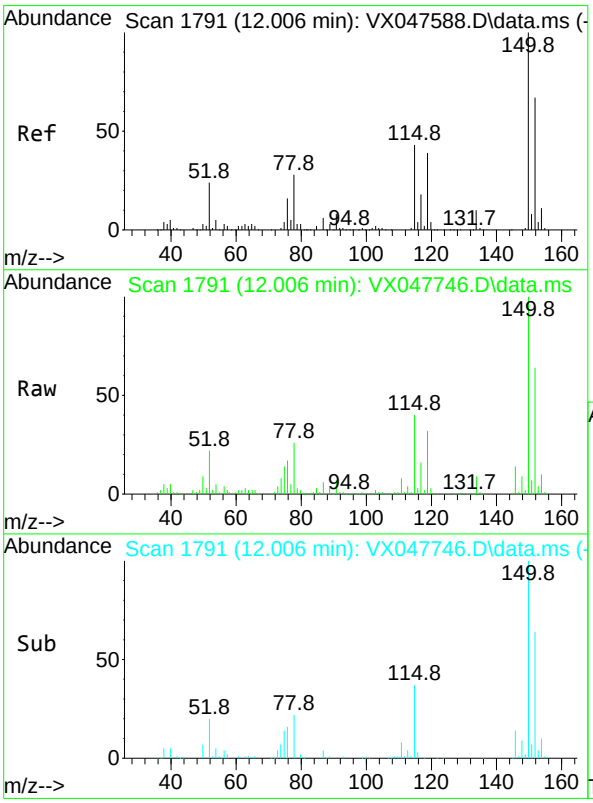
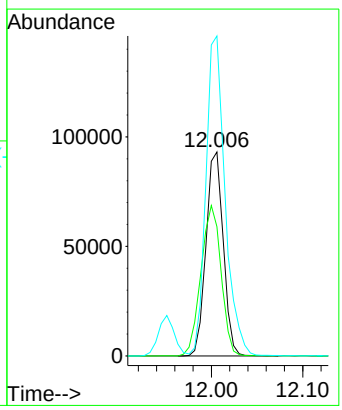
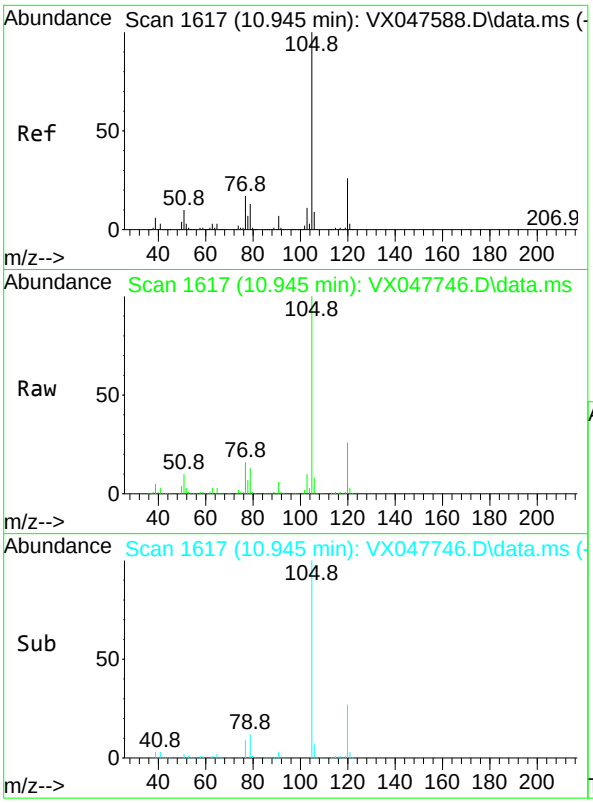


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:152 Resp: 121948

Ion	Ratio	Lower	Upper
152	100		
115	86.0	44.9	134.5
150	173.9	0.0	352.0

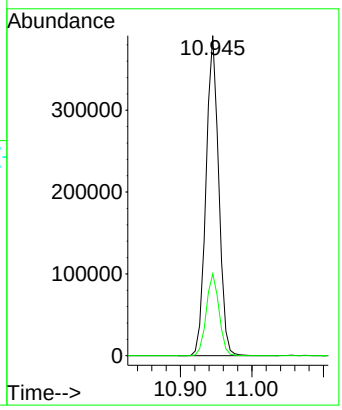




#73
Isopropylbenzene
Concen: 51.938 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 48152

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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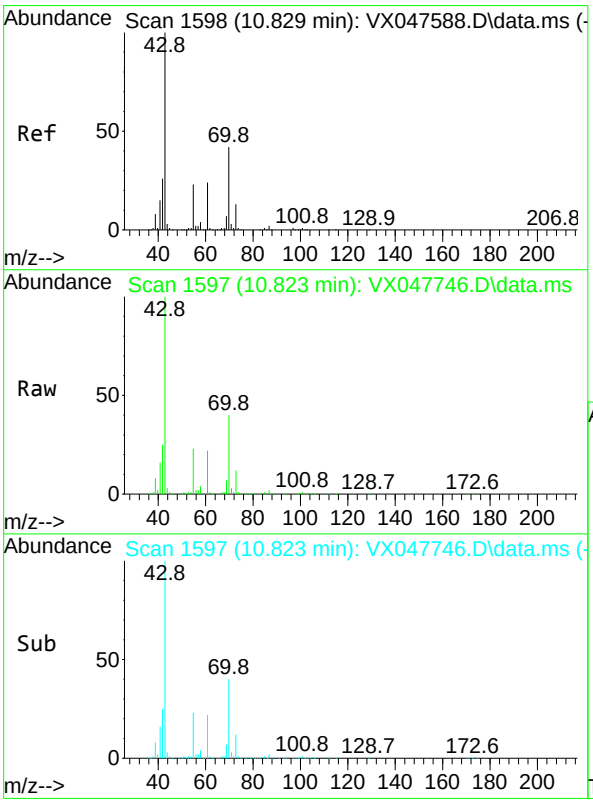
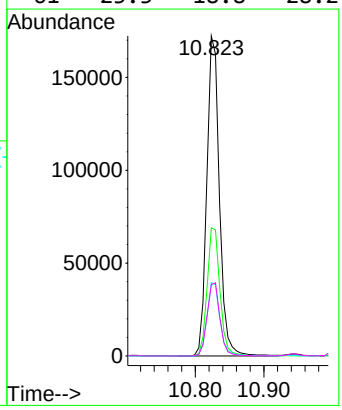
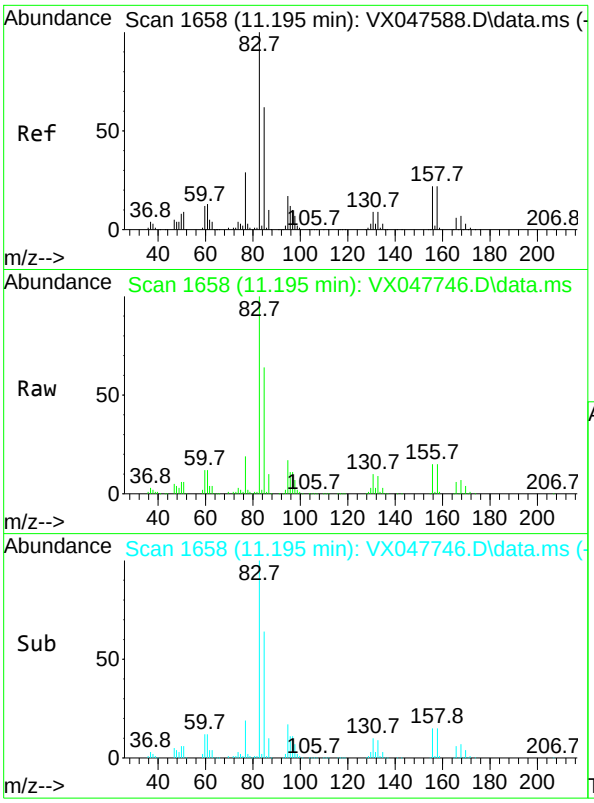


#74
N-amyl acetate
Concen: 52.312 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 221168

Ion	Ratio	Lower	Upper
43	100		
70	40.9	32.0	48.0
55	23.6	18.9	28.3
61	23.3	18.8	28.2

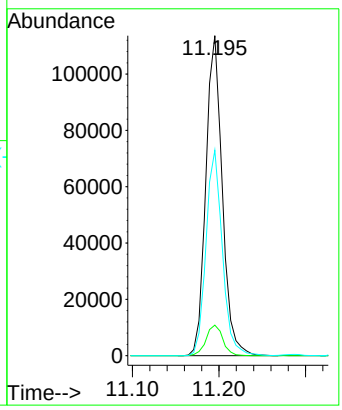




#75
1,1,2,2-Tetrachloroethane
Concen: 53.400 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 14978

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	64.0	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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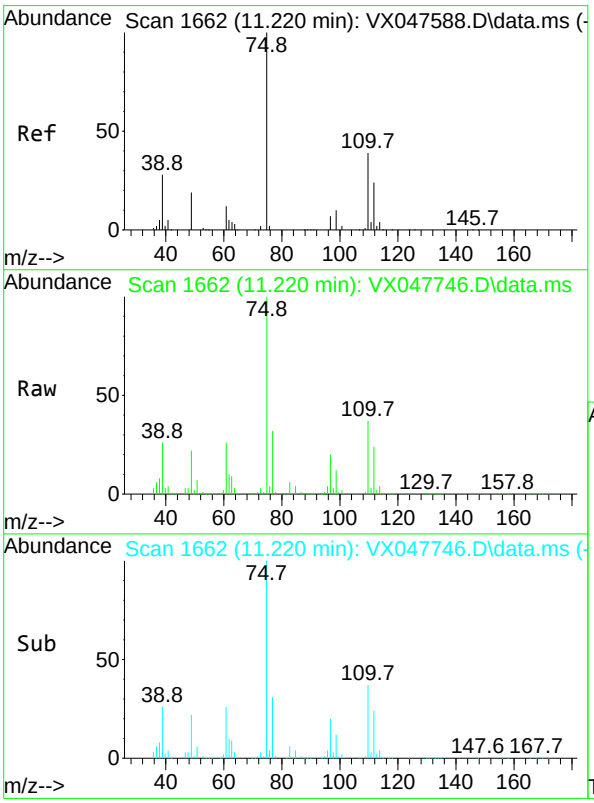
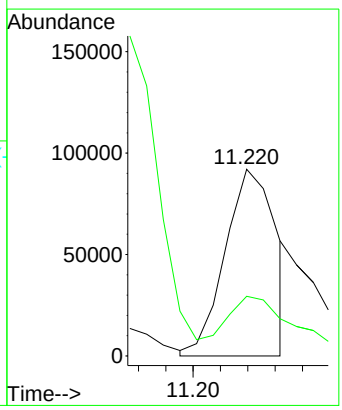
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

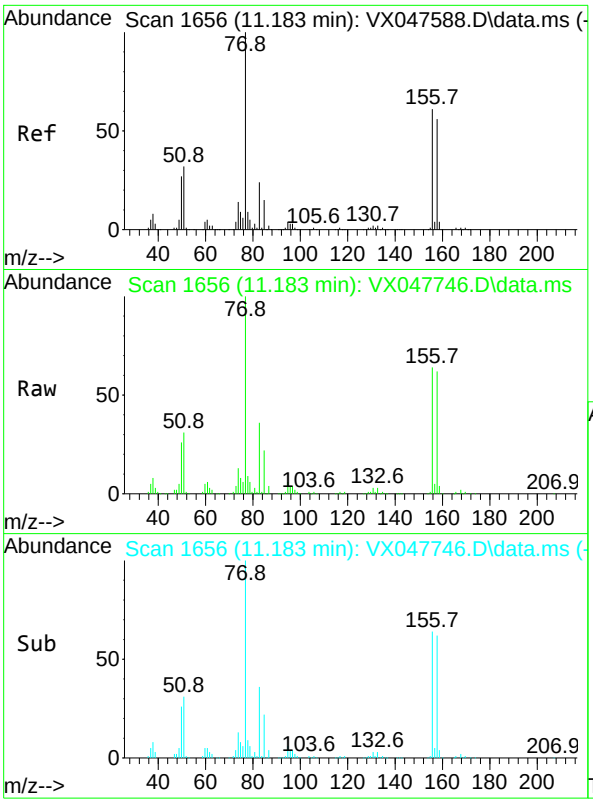


#76
1,2,3-Trichloropropane
Concen: 48.255 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 119145

Ion	Ratio	Lower	Upper
75	100		
77	44.0	18.8	56.4

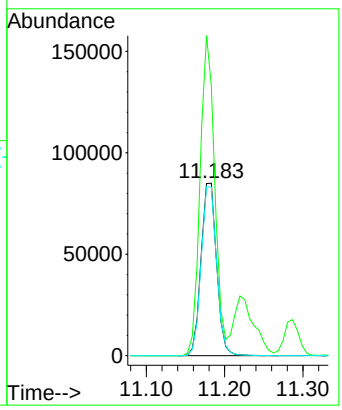




#77
Bromobenzene
Concen: 51.110 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:156 Resp: 11670

Ion	Ratio	Lower	Upper
156	100		
77	174.8	89.7	269.1
158	98.2	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 09/24/2025
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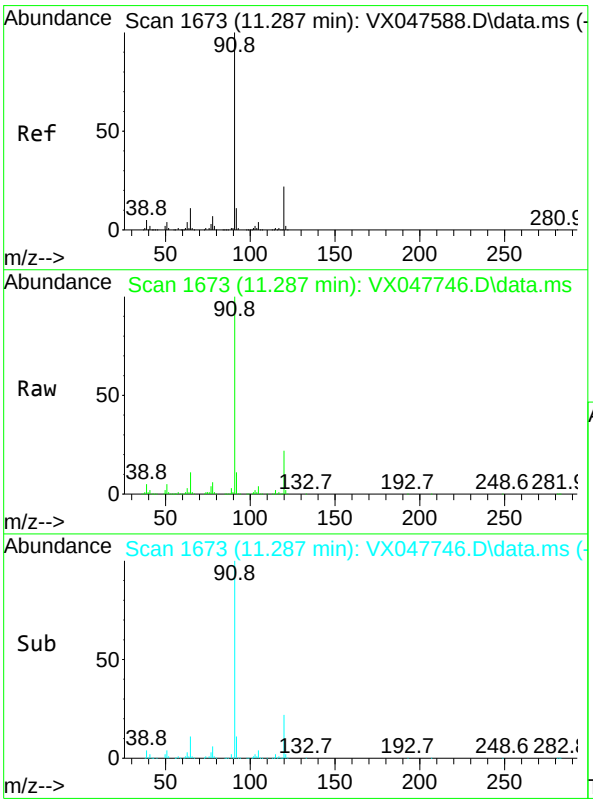
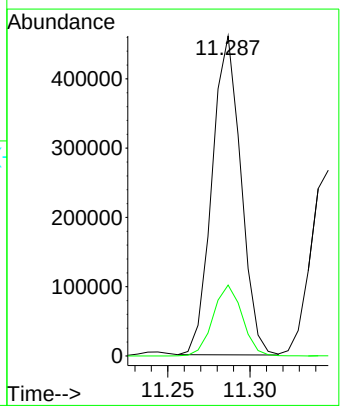
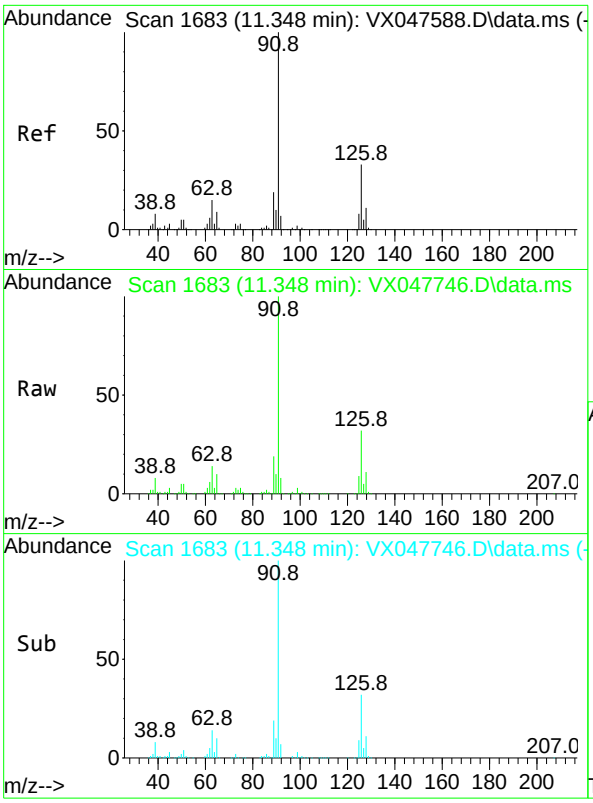


#78
n-propylbenzene
Concen: 51.387 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 563194

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1

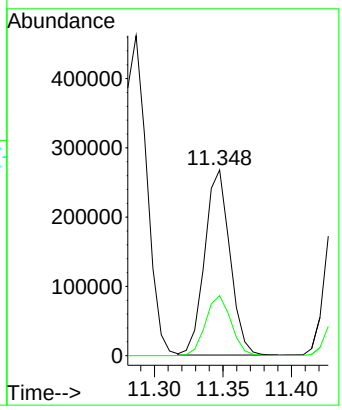




#79
2-Chlorotoluene
Concen: 50.938 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 34192

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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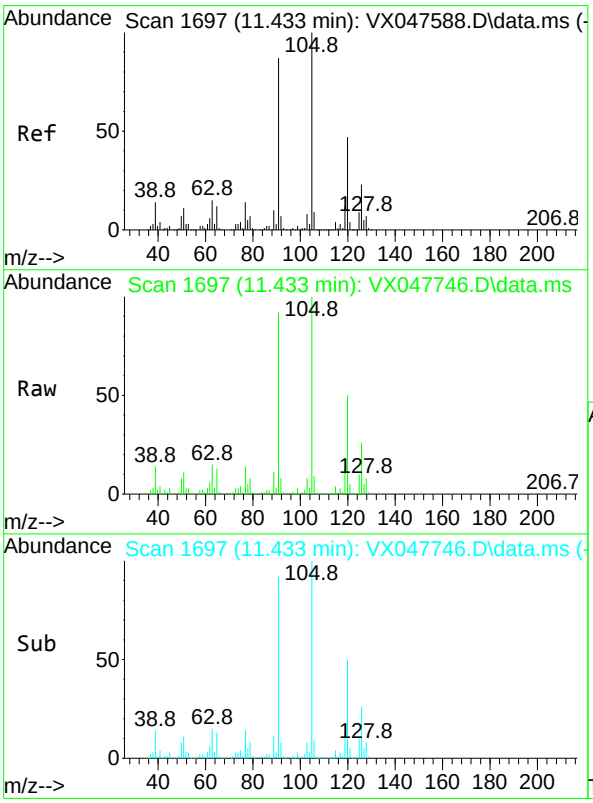
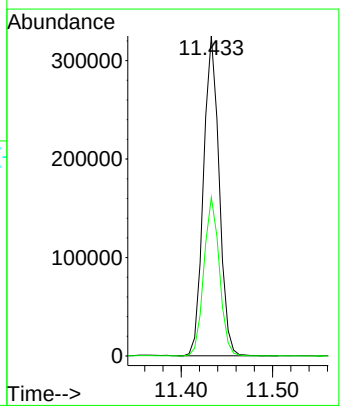
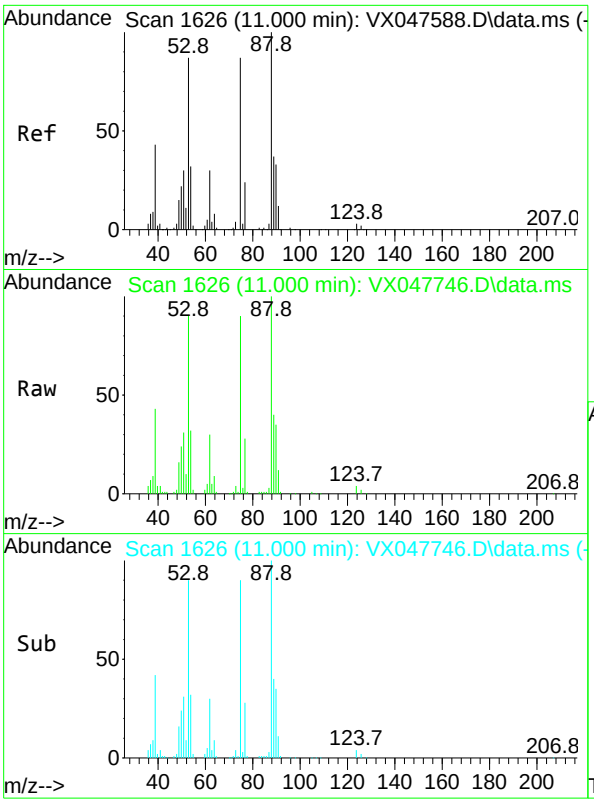


#80
1,3,5-Trimethylbenzene
Concen: 50.669 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 385950

Ion	Ratio	Lower	Upper
105	100		
120	49.0	23.6	70.8

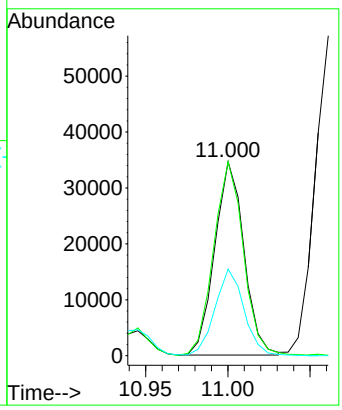




#81
trans-1,4-Dichloro-2-butene
Concen: 44.142 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 4273

Ion	Ratio	Lower	Upper
75	100		
53	101.7	83.4	125.2
89	44.8	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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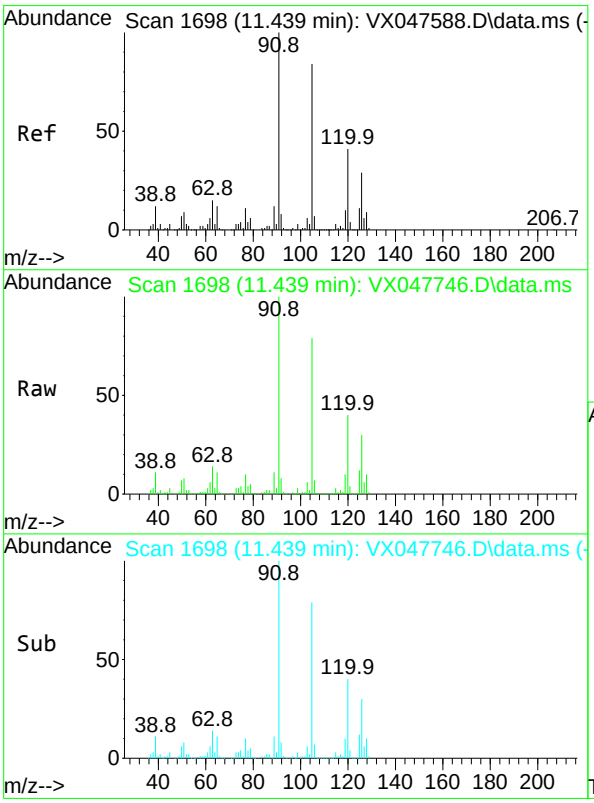
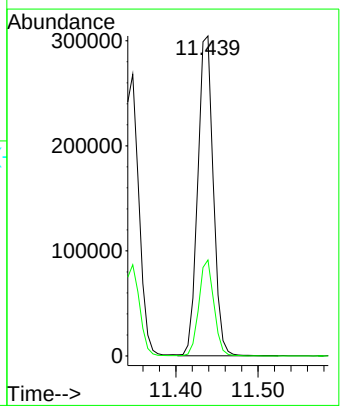
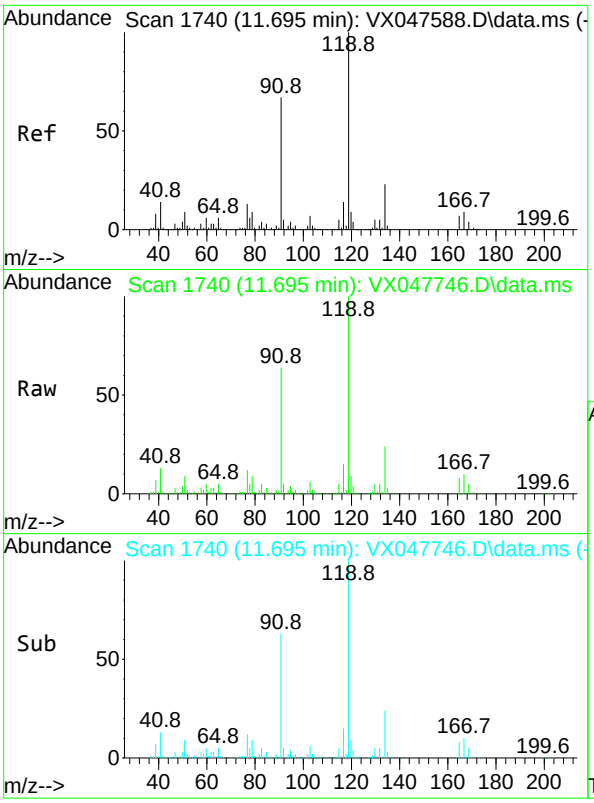


#82
4-Chlorotoluene
Concen: 50.313 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 398881

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6

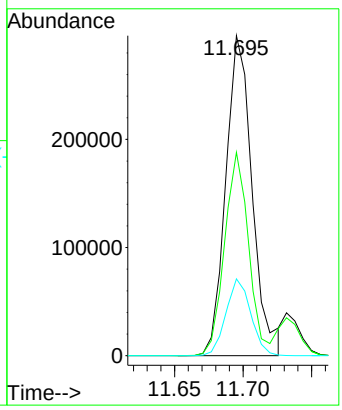




#83
tert-Butylbenzene
Concen: 50.936 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:119 Resp: 39717

Ion	Ratio	Lower	Upper
119	100		
91	57.9	29.6	88.8
134	22.6	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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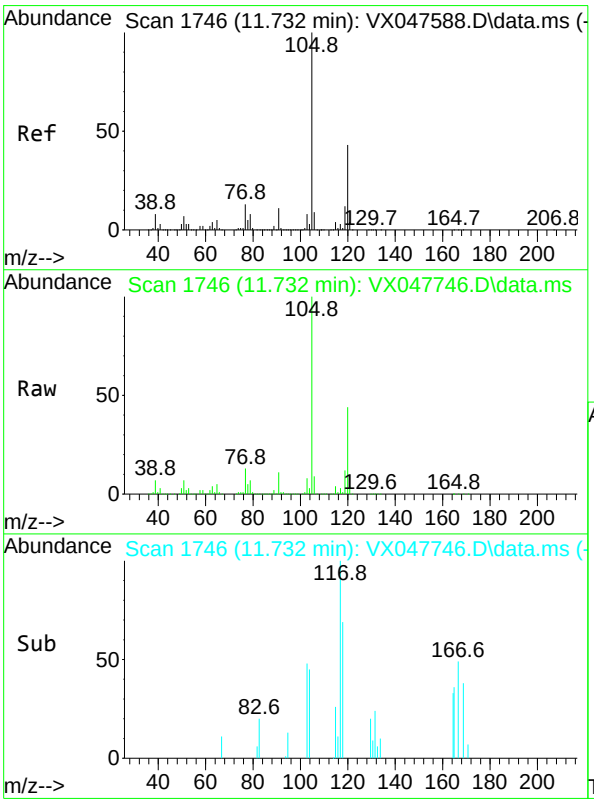
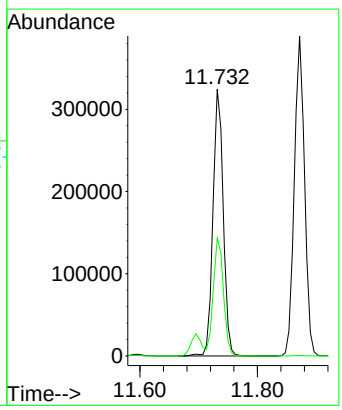
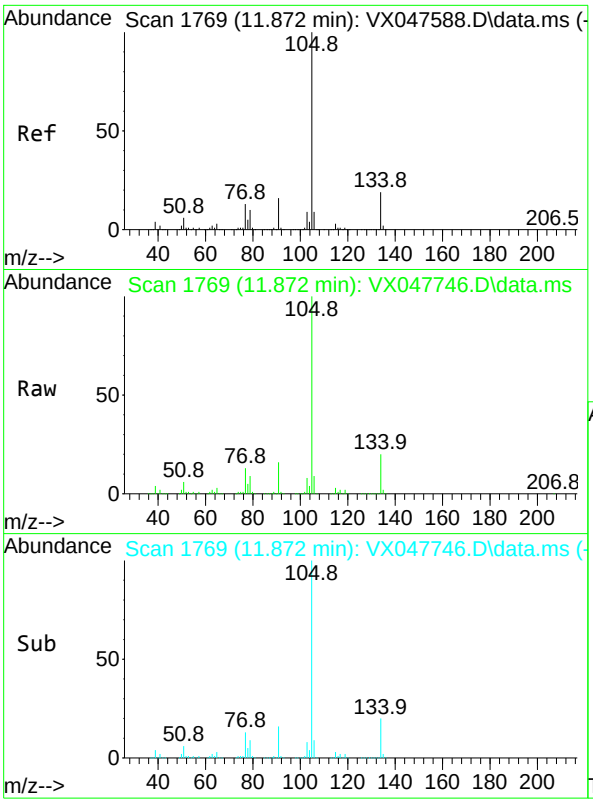


#84
1,2,4-Trimethylbenzene
Concen: 51.085 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 394508

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.1	66.1

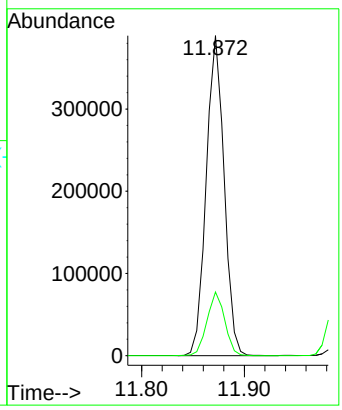




#85
sec-Butylbenzene
Concen: 50.945 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 47185

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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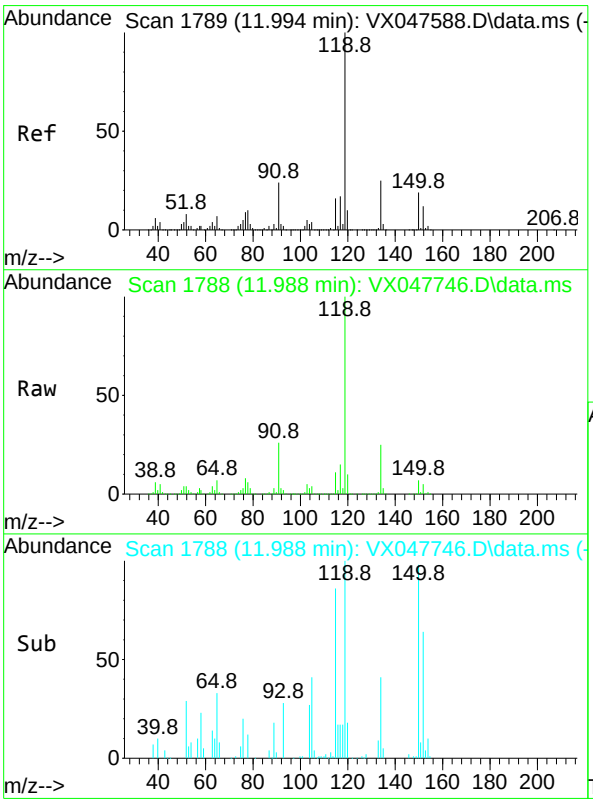
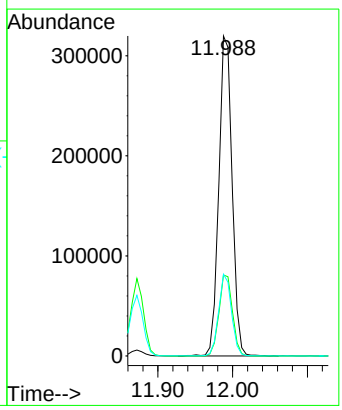
Supervised By :Mahesh Dadoda 09/26/2025

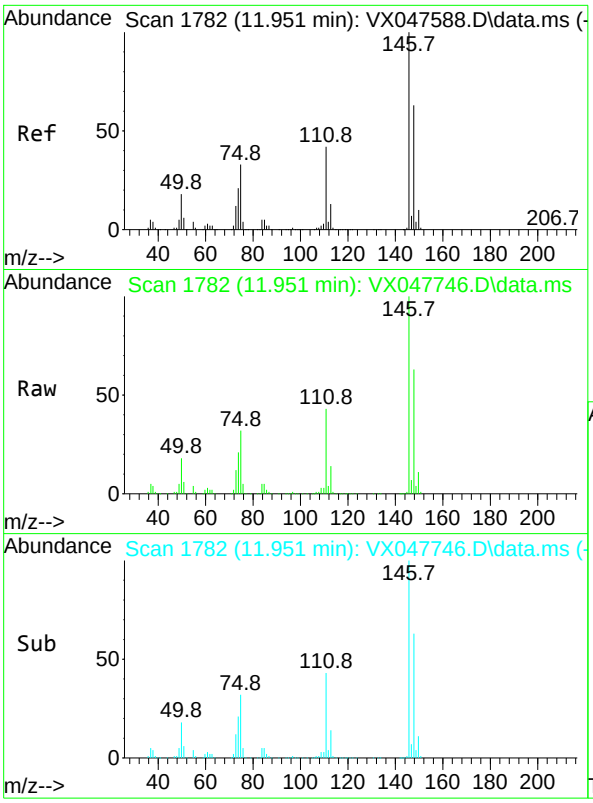


#86
p-Isopropyltoluene
Concen: 50.687 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:119 Resp: 397440

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	24.8	12.6	37.6

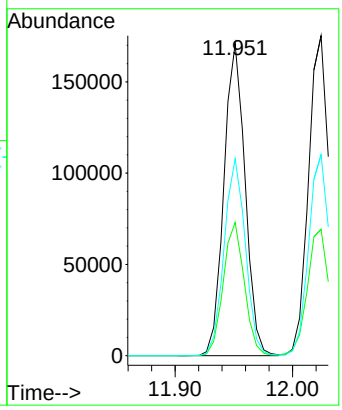




#87
1,3-Dichlorobenzene
Concen: 50.618 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:146 Resp: 21468

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	63.2	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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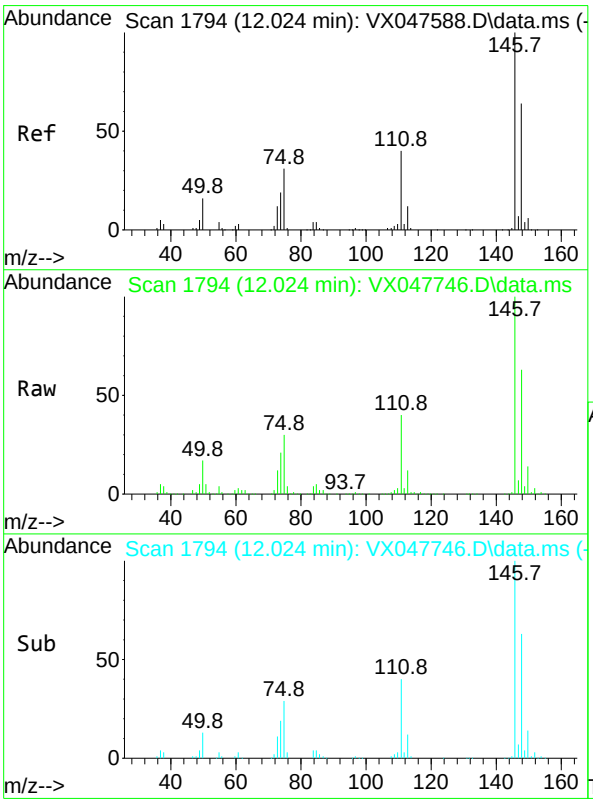
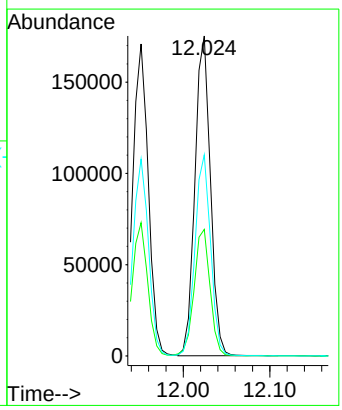
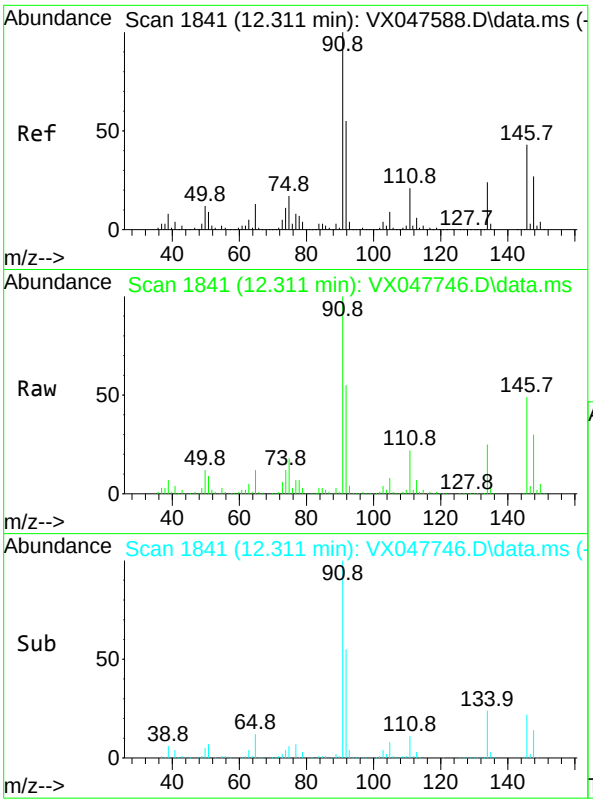


#88
1,4-Dichlorobenzene
Concen: 50.100 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:146 Resp: 218086

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.8	62.4
148	63.3	31.7	95.1

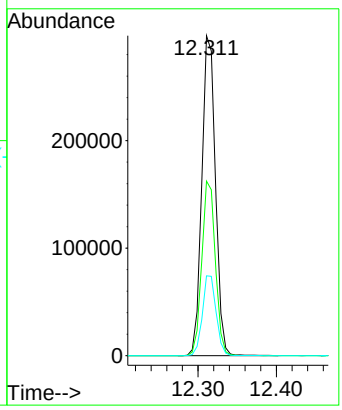




#89
n-Butylbenzene
Concen: 49.578 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 35970

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.1	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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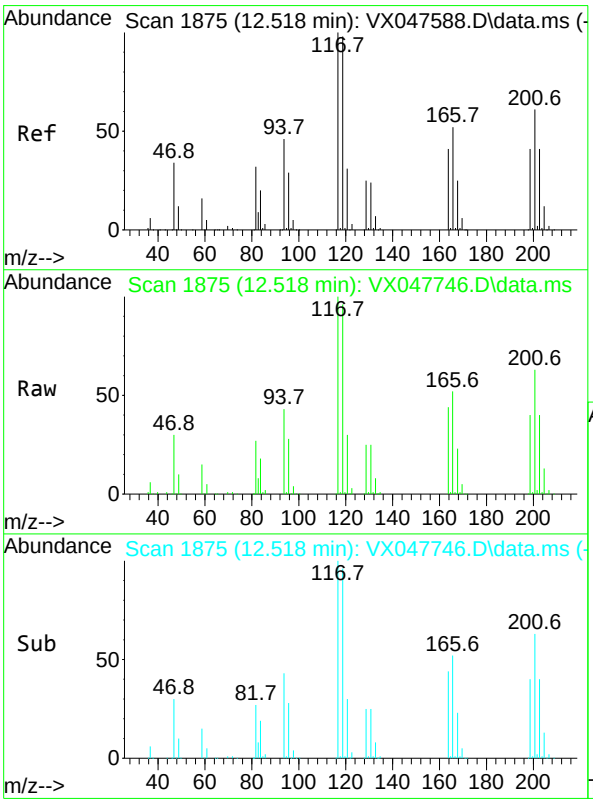
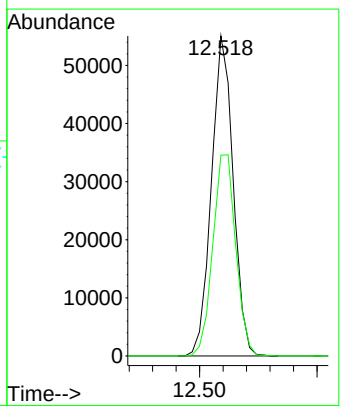
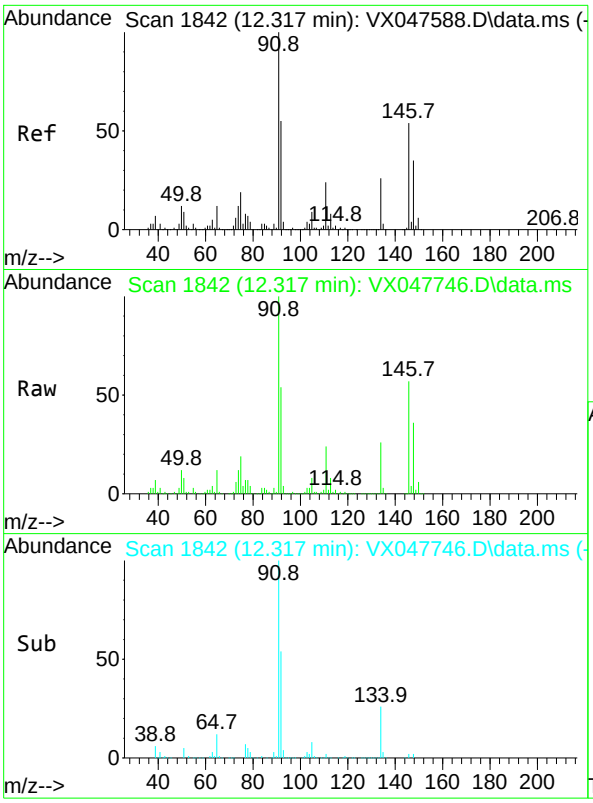


#90
Hexachloroethane
Concen: 51.284 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 70601

Ion	Ratio	Lower	Upper
117	100		
201	66.7	34.2	102.5

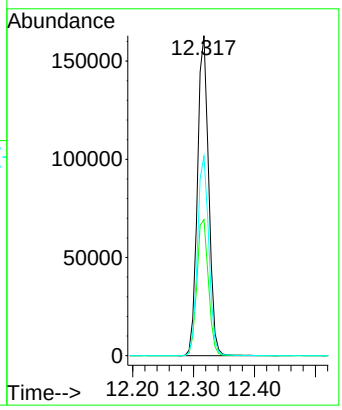




#91
1,2-Dichlorobenzene
Concen: 51.499 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:146 Resp: 20809

Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.2	66.6
148	62.8	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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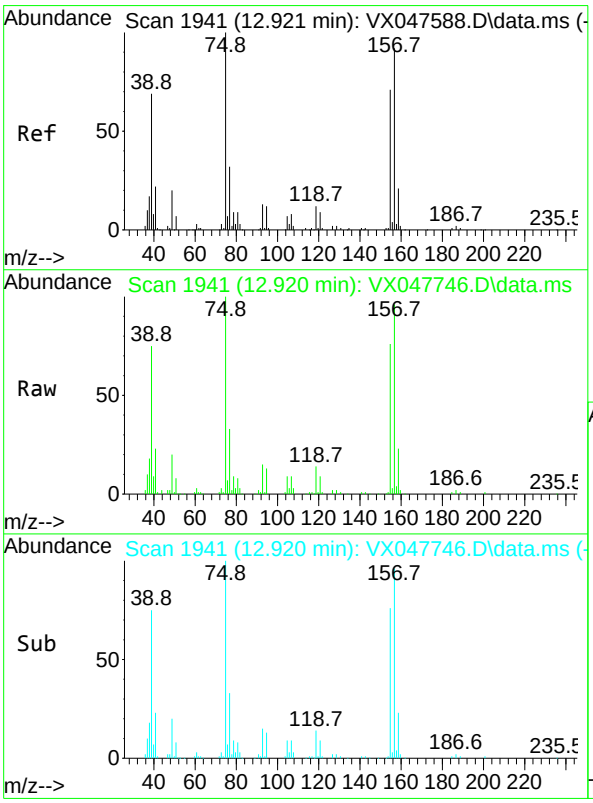
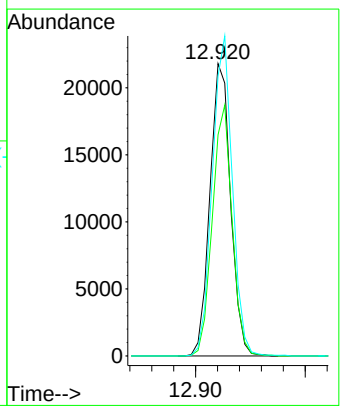
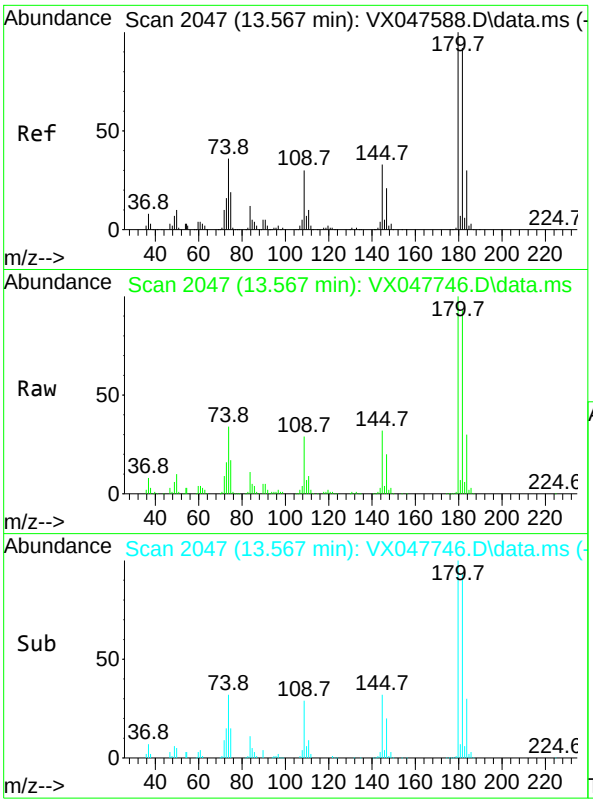


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.279 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 28554

Ion	Ratio	Lower	Upper
75	100		
155	82.0	37.7	113.1
157	106.4	49.8	149.4

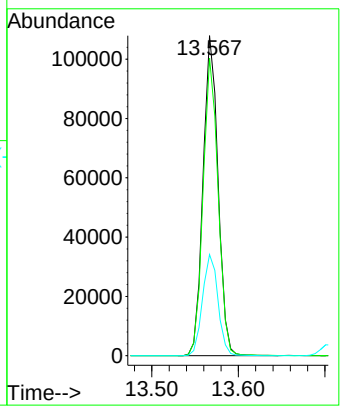




#93
1,2,4-Trichlorobenzene
Concen: 49.444 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:180 Resp: 12984

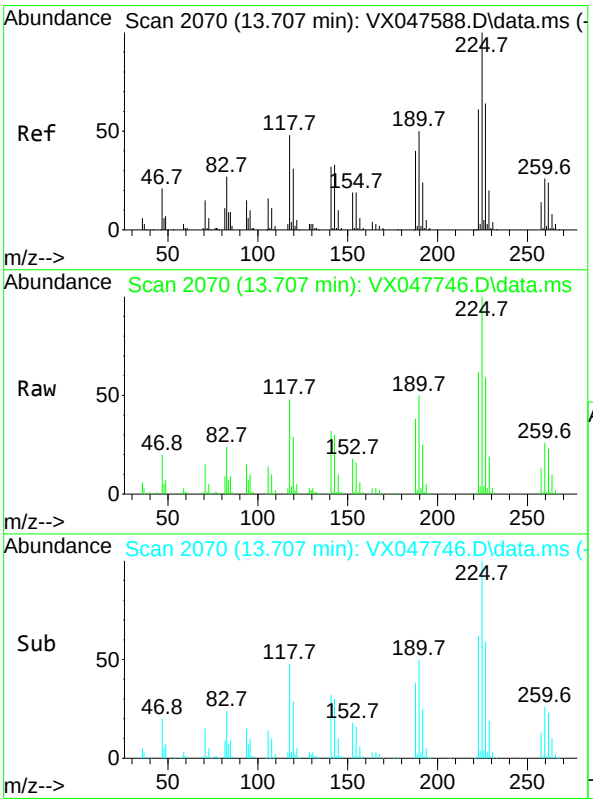
Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.6	139.8
145	32.6	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

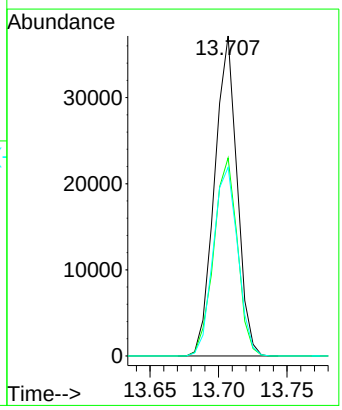
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

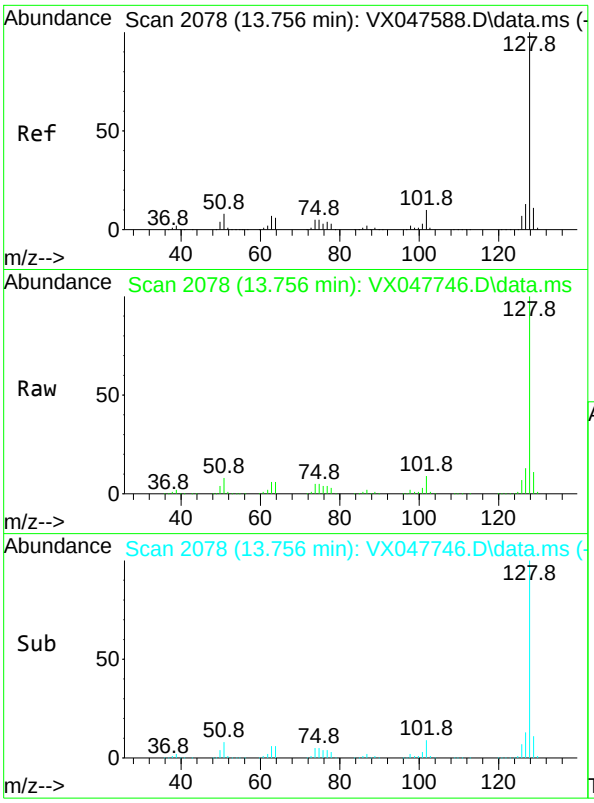


#94
Hexachlorobutadiene
Concen: 47.621 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:225 Resp: 42478

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.7	95.1
227	64.0	32.0	96.0

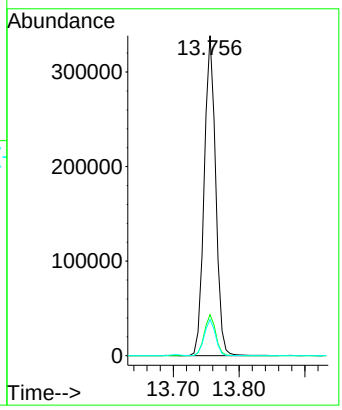




#95
Naphthalene
Concen: 51.297 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:128 Resp: 41020

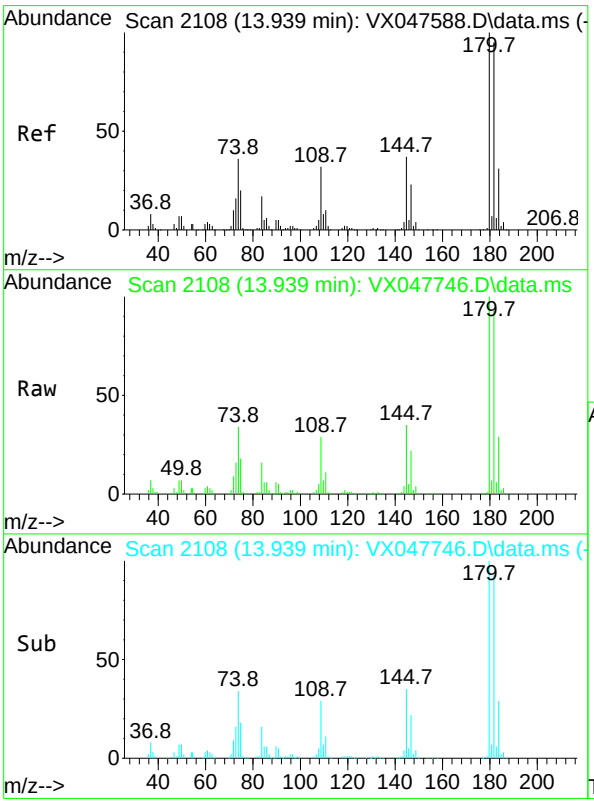
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.1	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

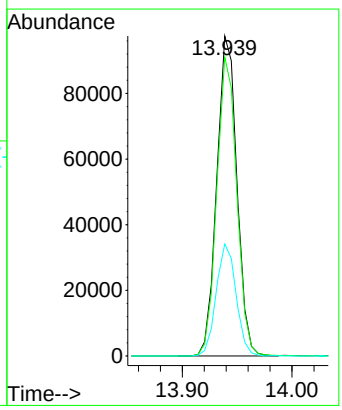
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.895 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:180 Resp: 124328

Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.6	142.8
145	34.6	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	96	-0.01
2	T	Dichlorodifluoromethane	0.518	0.672	-29.7#	129	0.00
3	P	Chloromethane	0.680	0.783	-15.1	114	0.00
4	C	Vinyl Chloride	0.666	0.789	-18.5#	115	0.00
5	T	Bromomethane	0.422	0.468	-10.9	106	0.00
6	T	Chloroethane	0.445	0.492	-10.6	107	0.00
7	T	Trichlorofluoromethane	0.989	1.101	-11.3	106	0.00
8	T	Diethyl Ether	0.405	0.431	-6.4	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.655	-13.3	108	0.00
10	T	Methyl Iodide	0.902	0.958	-6.2	101	0.00
11	T	Tert butyl alcohol	0.089	0.090	-1.1	97	0.00
12	CM	1,1-Dichloroethene	0.594	0.663	-11.6#	106	0.00
13	T	Acrolein	0.082	0.091	-11.0	108	0.00
14	T	Allyl chloride	1.226	1.211	1.2	96	0.00
15	T	Acrylonitrile	0.328	0.370	-12.8	103	-0.01
16	T	Acetone	0.346	0.298	13.9	90	0.00
17	T	Carbon Disulfide	1.626	1.796	-10.5	110	0.00
18	T	Methyl Acetate	0.770	0.868	-12.7	95	0.00
19	T	Methyl tert-butyl Ether	2.169	2.253	-3.9	96	0.00
20	T	Methylene Chloride	0.732	0.771	-5.3	102	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.695	-8.6	103	0.00
22	T	Diisopropyl ether	2.376	2.502	-5.3	97	-0.01
23	T	Vinyl Acetate	1.901	2.011	-5.8	97	0.00
24	P	1,1-Dichloroethane	1.263	1.349	-6.8	100	0.00
25	T	2-Butanone	0.432	0.438	-1.4	96	0.00
26	T	2,2-Dichloropropane	1.050	0.730	30.5#	66	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.815	-4.1	97	0.00
28	T	Bromochloromethane	0.551	0.629	-14.2	105	-0.01
29	T	Tetrahydrofuran	0.260	0.283	-8.8	99	0.00
30	C	Chloroform	1.276	1.328	-4.1#	97	-0.01
31	T	Cyclohexane	1.052	1.077	-2.4	101	0.00
32	T	1,1,1-Trichloroethane	1.082	1.123	-3.8	96	-0.01
33	S	1,2-Dichloroethane-d4	0.796	0.863	-8.4	108	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35	S	Dibromofluoromethane	0.335	0.398	-18.8	114	-0.01
36	T	1,1-Dichloropropene	0.490	0.504	-2.9	98	-0.01
37	T	Ethyl Acetate	0.525	0.542	-3.2	96	-0.01
38	T	Carbon Tetrachloride	0.532	0.554	-4.1	97	-0.01
39	T	Methylcyclohexane	0.556	0.576	-3.6	96	0.00
40	TM	Benzene	1.488	1.584	-6.5	98	0.00
41	T	Methacrylonitrile	0.271	0.302	-11.4	100	-0.01
42	TM	1,2-Dichloroethane	0.566	0.569	-0.5	92	0.00
43	T	Isopropyl Acetate	0.860	0.887	-3.1	94	0.00
44	TM	Trichloroethene	0.360	0.387	-7.5	99	0.00
45	C	1,2-Dichloropropane	0.381	0.401	-5.2#	95	0.00
46	T	Dibromomethane	0.277	0.291	-5.1	95	0.00
47	T	Bromodichloromethane	0.572	0.594	-3.8	93	0.00
48	T	Methyl methacrylate	0.429	0.446	-4.0	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.006	-50.0#	112	0.00
50	S	Toluene-d8	1.160	1.325	-14.2	109	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.516	-8.2	95	0.00
52	CM	Toluene	0.917	0.950	-3.6#	96	0.00
53	T	t-1,3-Dichloropropene	0.584	0.561	3.9	86	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.614	1.6	89	0.00
55	T	1,1,2-Trichloroethane	0.354	0.369	-4.2	95	0.00
56	T	Ethyl methacrylate	0.555	0.583	-5.0	92	0.00
57	T	1,3-Dichloropropane	0.607	0.640	-5.4	95	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.300	-32.2#	104	0.00
59	T	2-Hexanone	0.343	0.357	-4.1	94	0.00
60	T	Dibromochloromethane	0.407	0.431	-5.9	94	0.00
61	T	1,2-Dibromoethane	0.360	0.382	-6.1	95	0.00
62	S	4-Bromofluorobenzene	0.440	0.493	-12.0	109	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.326	0.346	-6.1	99	0.00
65	PM	Chlorobenzene	1.136	1.179	-3.8	94	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.413	-5.4	93	0.00
67	C	Ethyl Benzene	1.960	2.043	-4.2#	94	0.00
68	T	m/p-Xylenes	0.729	0.773	-6.0	95	0.00
69	T	o-Xylene	0.706	0.741	-5.0	93	0.00
70	T	Styrene	1.236	1.308	-5.8	94	0.00
71	P	Bromoform	0.293	0.317	-8.2	95	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73	T	Isopropylbenzene	3.801	3.949	-3.9	93	0.00
74	T	N-amyl acetate	1.733	1.814	-4.7	93	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.228	-6.8	96	0.00
76	T	1,2,3-Trichloropropane	1.012	0.977	3.5	83	0.00
77	T	Bromobenzene	0.936	0.957	-2.2	92	0.00
78	T	n-propylbenzene	4.494	4.618	-2.8	92	0.00
79	T	2-Chlorotoluene	2.752	2.804	-1.9	92	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.165	-1.3	90	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.350	11.8	81	0.00
82	T	4-Chlorotoluene	3.251	3.271	-0.6	91	0.00
83	T	tert-Butylbenzene	3.197	3.257	-1.9	93	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.235	-2.2	92	0.00
85	T	sec-Butylbenzene	3.797	3.869	-1.9	92	0.00
86	T	p-Isopropyltoluene	3.215	3.259	-1.4	91	0.00
87	T	1,3-Dichlorobenzene	1.739	1.760	-1.2	93	0.00
88	T	1,4-Dichlorobenzene	1.785	1.788	-0.2	93	0.00
89	T	n-Butylbenzene	2.975	2.950	0.8	90	0.00
90	T	Hexachloroethane	0.564	0.579	-2.7	93	0.00
91	T	1,2-Dichlorobenzene	1.657	1.706	-3.0	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.234	-0.4	88	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.065	1.1	88	0.00
94	T	Hexachlorobutadiene	0.366	0.348	4.9	87	0.00
95	T	Naphthalene	3.279	3.364	-2.6	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.020	-1.8	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	96	-0.01
2	T	Dichlorodifluoromethane	50.000	64.888	-29.8#	129	0.00
3	P	Chloromethane	50.000	57.550	-15.1	114	0.00
4	C	Vinyl Chloride	50.000	59.253	-18.5#	115	0.00
5	T	Bromomethane	50.000	55.392	-10.8	106	0.00
6	T	Chloroethane	50.000	55.200	-10.4	107	0.00
7	T	Trichlorofluoromethane	50.000	55.656	-11.3	106	0.00
8	T	Diethyl Ether	50.000	53.244	-6.5	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	56.598	-13.2	108	0.00
10	T	Methyl Iodide	50.000	53.098	-6.2	101	0.00
11	T	Tert butyl alcohol	250.000	252.518	-1.0	97	0.00
12	CM	1,1-Dichloroethene	50.000	55.777	-11.6#	106	0.00
13	T	Acrolein	250.000	280.037	-12.0	108	0.00
14	T	Allyl chloride	50.000	49.383	1.2	96	0.00
15	T	Acrylonitrile	250.000	281.629	-12.7	103	-0.01
16	T	Acetone	250.000	214.945	14.0	90	0.00
17	T	Carbon Disulfide	50.000	55.218	-10.4	110	0.00
18	T	Methyl Acetate	50.000	56.326	-12.7	95	0.00
19	T	Methyl tert-butyl Ether	50.000	51.946	-3.9	96	0.00
20	T	Methylene Chloride	50.000	52.632	-5.3	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	54.315	-8.6	103	0.00
22	T	Diisopropyl ether	50.000	52.658	-5.3	97	-0.01
23	T	Vinyl Acetate	250.000	264.433	-5.8	97	0.00
24	P	1,1-Dichloroethane	50.000	53.426	-6.9	100	0.00
25	T	2-Butanone	250.000	253.647	-1.5	96	0.00
26	T	2,2-Dichloropropane	50.000	34.769	30.5#	66	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.016	-4.0	97	0.00
28	T	Bromochloromethane	50.000	57.010	-14.0	105	-0.01
29	T	Tetrahydrofuran	250.000	272.674	-9.1	99	0.00
30	C	Chloroform	50.000	52.050	-4.1#	97	-0.01
31	T	Cyclohexane	50.000	51.224	-2.4	101	0.00
32	T	1,1,1-Trichloroethane	50.000	51.890	-3.8	96	-0.01
33	S	1,2-Dichloroethane-d4	50.000	54.210	-8.4	108	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35	S	Dibromofluoromethane	50.000	59.312	-18.6	114	-0.01
36	T	1,1-Dichloropropene	50.000	51.432	-2.9	98	-0.01
37	T	Ethyl Acetate	50.000	51.660	-3.3	96	-0.01
38	T	Carbon Tetrachloride	50.000	51.986	-4.0	97	-0.01
39	T	Methylcyclohexane	50.000	51.777	-3.6	96	0.00
40	TM	Benzene	50.000	53.223	-6.4	98	0.00
41	T	Methacrylonitrile	50.000	55.742	-11.5	100	-0.01
42	TM	1,2-Dichloroethane	50.000	50.209	-0.4	92	0.00
43	T	Isopropyl Acetate	50.000	51.528	-3.1	94	0.00
44	TM	Trichloroethene	50.000	53.736	-7.5	99	0.00
45	C	1,2-Dichloropropane	50.000	52.565	-5.1#	95	0.00
46	T	Dibromomethane	50.000	52.418	-4.8	95	0.00
47	T	Bromodichloromethane	50.000	51.915	-3.8	93	0.00
48	T	Methyl methacrylate	50.000	51.974	-3.9	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1306.764	-30.7#	112	0.00
50	S	Toluene-d8	50.000	57.106	-14.2	109	0.00
51	T	4-Methyl-2-Pentanone	250.000	270.171	-8.1	95	0.00
52	CM	Toluene	50.000	51.811	-3.6#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	48.037	3.9	86	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.218	1.6	89	0.00
55	T	1,1,2-Trichloroethane	50.000	52.187	-4.4	95	0.00
56	T	Ethyl methacrylate	50.000	52.534	-5.1	92	0.00
57	T	1,3-Dichloropropane	50.000	52.699	-5.4	95	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	280.568	-12.2	104	0.00
59	T	2-Hexanone	250.000	260.122	-4.0	94	0.00
60	T	Dibromochloromethane	50.000	52.954	-5.9	94	0.00
61	T	1,2-Dibromoethane	50.000	53.090	-6.2	95	0.00
62	S	4-Bromofluorobenzene	50.000	55.994	-12.0	109	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	53.073	-6.1	99	0.00
65	PM	Chlorobenzene	50.000	51.885	-3.8	94	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.679	-5.4	93	0.00
67	C	Ethyl Benzene	50.000	52.120	-4.2#	94	0.00
68	T	m/p-Xylenes	100.000	106.017	-6.0	95	0.00
69	T	o-Xylene	50.000	52.481	-5.0	93	0.00
70	T	Styrene	50.000	52.908	-5.8	94	0.00
71	P	Bromoform	50.000	54.161	-8.3	95	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73	T	Isopropylbenzene	50.000	51.938	-3.9	93	0.00
74	T	N-amyl acetate	50.000	52.312	-4.6	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.400	-6.8	96	0.00
76	T	1,2,3-Trichloropropane	50.000	48.255	3.5	83	0.00
77	T	Bromobenzene	50.000	51.110	-2.2	92	0.00
78	T	n-propylbenzene	50.000	51.387	-2.8	92	0.00
79	T	2-Chlorotoluene	50.000	50.938	-1.9	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.669	-1.3	90	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	44.142	11.7	81	0.00
82	T	4-Chlorotoluene	50.000	50.313	-0.6	91	0.00
83	T	tert-Butylbenzene	50.000	50.936	-1.9	93	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.085	-2.2	92	0.00
85	T	sec-Butylbenzene	50.000	50.945	-1.9	92	0.00
86	T	p-Isopropyltoluene	50.000	50.687	-1.4	91	0.00
87	T	1,3-Dichlorobenzene	50.000	50.618	-1.2	93	0.00
88	T	1,4-Dichlorobenzene	50.000	50.100	-0.2	93	0.00
89	T	n-Butylbenzene	50.000	49.578	0.8	90	0.00
90	T	Hexachloroethane	50.000	51.284	-2.6	93	0.00
91	T	1,2-Dichlorobenzene	50.000	51.499	-3.0	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.279	-0.6	88	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.444	1.1	88	0.00
94	T	Hexachlorobutadiene	50.000	47.621	4.8	87	0.00
95	T	Naphthalene	50.000	51.297	-2.6	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.895	-1.8	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/24/2025 10:50
Lab File ID:	VX047767.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.593		14.48	50
Chloromethane	0.680	0.735	0.1	8.09	50
Vinyl Chloride	0.666	0.726		9.01	50
Bromomethane	0.422	0.463		9.72	50
Chloroethane	0.445	0.466		4.72	50
Trichlorofluoromethane	0.989	1.013		2.43	50
1,1,2-Trichlorotrifluoroethane	0.578	0.586		1.38	50
1,1-Dichloroethene	0.594	0.631		6.23	50
Acetone	0.346	0.323		-6.65	50
Carbon Disulfide	1.626	1.720		5.78	50
Methyl tert-butyl Ether	2.169	2.352		8.44	50
Methyl Acetate	0.770	0.940		22.08	50
Methylene Chloride	0.732	0.779		6.42	50
trans-1,2-Dichloroethene	0.640	0.685		7.03	50
1,1-Dichloroethane	1.263	1.341	0.1	6.18	50
Cyclohexane	1.052	1.066		1.33	50
2-Butanone	0.432	0.500		15.74	50
Carbon Tetrachloride	0.532	0.515		-3.19	50
cis-1,2-Dichloroethene	0.783	0.835		6.64	50
Bromochloromethane	0.551	0.591		7.26	50
Chloroform	1.276	1.376		7.84	50
1,1,1-Trichloroethane	1.082	1.134		4.81	50
Methylcyclohexane	0.556	0.525		-5.58	50
Benzene	1.488	1.534		3.09	50
1,2-Dichloroethane	0.566	0.562		-0.71	50
Trichloroethene	0.360	0.371		3.06	50
1,2-Dichloropropane	0.381	0.401		5.25	50
Bromodichloromethane	0.572	0.591		3.32	50
4-Methyl-2-Pentanone	0.477	0.565		18.45	50
Toluene	0.917	0.943		2.84	50
t-1,3-Dichloropropene	0.584	0.540		-7.53	50
cis-1,3-Dichloropropene	0.624	0.587		-5.93	50
1,1,2-Trichloroethane	0.354	0.379		7.06	50
2-Hexanone	0.343	0.396		15.45	50
Dibromochloromethane	0.407	0.437		7.37	50
1,2-Dibromoethane	0.360	0.406		12.78	50
Tetrachloroethene	0.326	0.340		4.29	50
Chlorobenzene	1.136	1.145	0.3	0.79	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/24/2025 10:50
Lab File ID:	VX047767.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	1.949		-0.56	50
m/p-Xylenes	0.729	0.741		1.65	50
o-Xylene	0.706	0.724		2.55	50
Styrene	1.236	1.277		3.32	50
Bromoform	0.293	0.316	0.1	7.85	50
Isopropylbenzene	3.801	3.694		-2.82	50
1,1,2,2-Tetrachloroethane	1.150	1.264	0.3	9.91	50
1,3-Dichlorobenzene	1.739	1.732		-0.4	50
1,4-Dichlorobenzene	1.785	1.729		-3.14	50
1,2-Dichlorobenzene	1.657	1.696		2.35	50
1,2-Dibromo-3-Chloropropane	0.233	0.254		9.01	50
1,2,4-Trichlorobenzene	1.077	1.059		-1.67	50
1,2,3-Trichlorobenzene	1.002	1.049		4.69	50
1,2-Dichloroethane-d4	0.796	0.866		8.79	50
Dibromofluoromethane	0.335	0.362		8.06	50
Toluene-d8	1.160	1.237		6.64	50
4-Bromofluorobenzene	0.440	0.475		7.95	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.538	168	136245	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	254252	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.037	117	232007	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	113030	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.946	65	117949	54.388 ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.780%		
35) Dibromofluoromethane	5.373	113	92049	53.983 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.960%		
50) Toluene-d8	8.635	98	314422	53.290 ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.580%		
62) 4-Bromofluorobenzene	11.061	95	120804	53.949 ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.900%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.172	85	80794	57.267 ug/l	100
3) Chloromethane	1.301	50	100073	53.970 ug/l	97
4) Vinyl Chloride	1.380	62	98905	54.491 ug/l	99
5) Bromomethane	1.611	94	63064	54.792 ug/l	99
6) Chloroethane	1.691	64	63530	52.368 ug/l	98
7) Trichlorofluoromethane	1.892	101	138008	51.208 ug/l	99
8) Diethyl Ether	2.136	74	59838	54.277 ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	79844	50.667 ug/l	99
10) Methyl Iodide	2.453	142	124745	50.757 ug/l	100
11) Tert butyl alcohol	2.947	59	65972	273.139 ug/l	100
12) 1,1-Dichloroethene	2.325	96	85914	53.075 ug/l	97
13) Acrolein	2.233	56	62008	278.592 ug/l	97
14) Allyl chloride	2.666	41	160323	47.997 ug/l	95
15) Acrylonitrile	3.056	53	274545	306.873 ug/l	99
16) Acetone	2.373	43	219982	233.292 ug/l	97
17) Carbon Disulfide	2.514	76	234371	52.888 ug/l	99
18) Methyl Acetate	2.697	43	128034	61.011 ug/l	100
19) Methyl tert-butyl Ether	3.111	73	320438	54.228 ug/l	98
20) Methylene Chloride	2.788	84	106137	53.176 ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	93317	53.545 ug/l	96
22) Diisopropyl ether	3.751	45	350616	54.161 ug/l	86
23) Vinyl Acetate	3.715	43	1442450	278.405 ug/l	100
24) 1,1-Dichloroethane	3.605	63	182725	53.106 ug/l	99
25) 2-Butanone	4.538	43	340369	289.378 ug/l	97
26) 2,2-Dichloropropane	4.465	77	70096	24.508 ug/l	93
27) cis-1,2-Dichloroethene	4.483	96	113757	53.299 ug/l	92
28) Bromochloromethane	4.885	49	80547	53.622 ug/l	99
29) Tetrahydrofuran	4.989	42	220667	311.862 ug/l	100
30) Chloroform	5.080	83	187454	53.913 ug/l	100
31) Cyclohexane	5.458	56	145273	50.693 ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	154526	52.395 ug/l	99
36) 1,1-Dichloropropene	5.678	75	120688	48.437 ug/l	99
37) Ethyl Acetate	4.702	43	149048	55.869 ug/l	98
38) Carbon Tetrachloride	5.666	117	130818	48.322 ug/l	99
39) Methylcyclohexane	7.367	83	133414	47.171 ug/l	98
40) Benzene	6.025	78	389912	51.523 ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.910	41	77979	56.618 ug/l	99
42) 1,2-Dichloroethane	6.074	62	143000	49.663 ug/l	98
43) Isopropyl Acetate	6.324	43	235980	53.933 ug/l	99
44) Trichloroethene	7.110	130	94203	51.488 ug/l	93
45) 1,2-Dichloropropane	7.415	63	102032	52.653 ug/l	99
46) Dibromomethane	7.568	93	74570	52.881 ug/l	98
47) Bromodichloromethane	7.805	83	150372	51.676 ug/l	97
48) Methyl methacrylate	7.677	41	118513	54.378 ug/l	97
49) 1,4-Dioxane	7.647	88	30387	1379.627 ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	718573	296.207 ug/l	100
52) Toluene	8.702	92	239637	51.397 ug/l	99
53) t-1,3-Dichloropropene	8.964	75	137402	46.292 ug/l	97
54) cis-1,3-Dichloropropene	8.354	75	149149	47.013 ug/l	100
55) 1,1,2-Trichloroethane	9.134	97	96376	53.607 ug/l	97
56) Ethyl methacrylate	9.104	69	158357	56.087 ug/l	96
57) 1,3-Dichloropropane	9.293	76	167428	54.213 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	402380	294.817 ug/l	100
59) 2-Hexanone	9.415	43	503351	288.900 ug/l	98
60) Dibromochloromethane	9.506	129	111057	53.612 ug/l	98
61) 1,2-Dibromoethane	9.592	107	103205	56.360 ug/l	100
64) Tetrachloroethene	9.256	164	78844	52.130 ug/l	96
65) Chlorobenzene	10.061	112	265659	50.402 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.146	131	93007	51.137 ug/l	99
67) Ethyl Benzene	10.177	91	452093	49.712 ug/l	100
68) m/p-Xylenes	10.287	106	343642	101.520 ug/l	97
69) o-Xylene	10.628	106	167926	51.290 ug/l	98
70) Styrene	10.640	104	296373	51.662 ug/l	98
71) Bromoform	10.787	173	73291	53.967 ug/l	98
73) Isopropylbenzene	10.945	105	417583	48.594 ug/l	99
74) N-amyl acetate	10.829	43	207812	53.032 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	142889	54.960 ug/l	100
76) 1,2,3-Trichloropropane	11.219	75	124755m	54.514 ug/l	
77) Bromobenzene	11.183	156	107213	50.657 ug/l	97
78) n-propylbenzene	11.287	91	498719	49.095 ug/l	99
79) 2-Chlorotoluene	11.347	91	304904	49.006 ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	345988	49.006 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	35912	40.018 ug/l	99
82) 4-Chlorotoluene	11.439	91	357733	48.683 ug/l	99
83) tert-Butylbenzene	11.695	119	346038	47.879 ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	353276	49.355 ug/l	100
85) sec-Butylbenzene	11.872	105	415999	48.459 ug/l	100
86) p-Isopropyltoluene	11.994	119	348647	47.972 ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	195732	49.790 ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	195422	48.435 ug/l	99
89) n-Butylbenzene	12.317	91	317773	47.254 ug/l	98
90) Hexachloroethane	12.518	117	62783	49.203 ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	191705	51.187 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28696	54.516 ug/l	93
93) 1,2,4-Trichlorobenzene	13.567	180	119753	49.199 ug/l	98
94) Hexachlorobutadiene	13.707	225	39271	47.499 ug/l	99
95) Naphthalene	13.756	128	400255	54.002 ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	118573	52.369 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

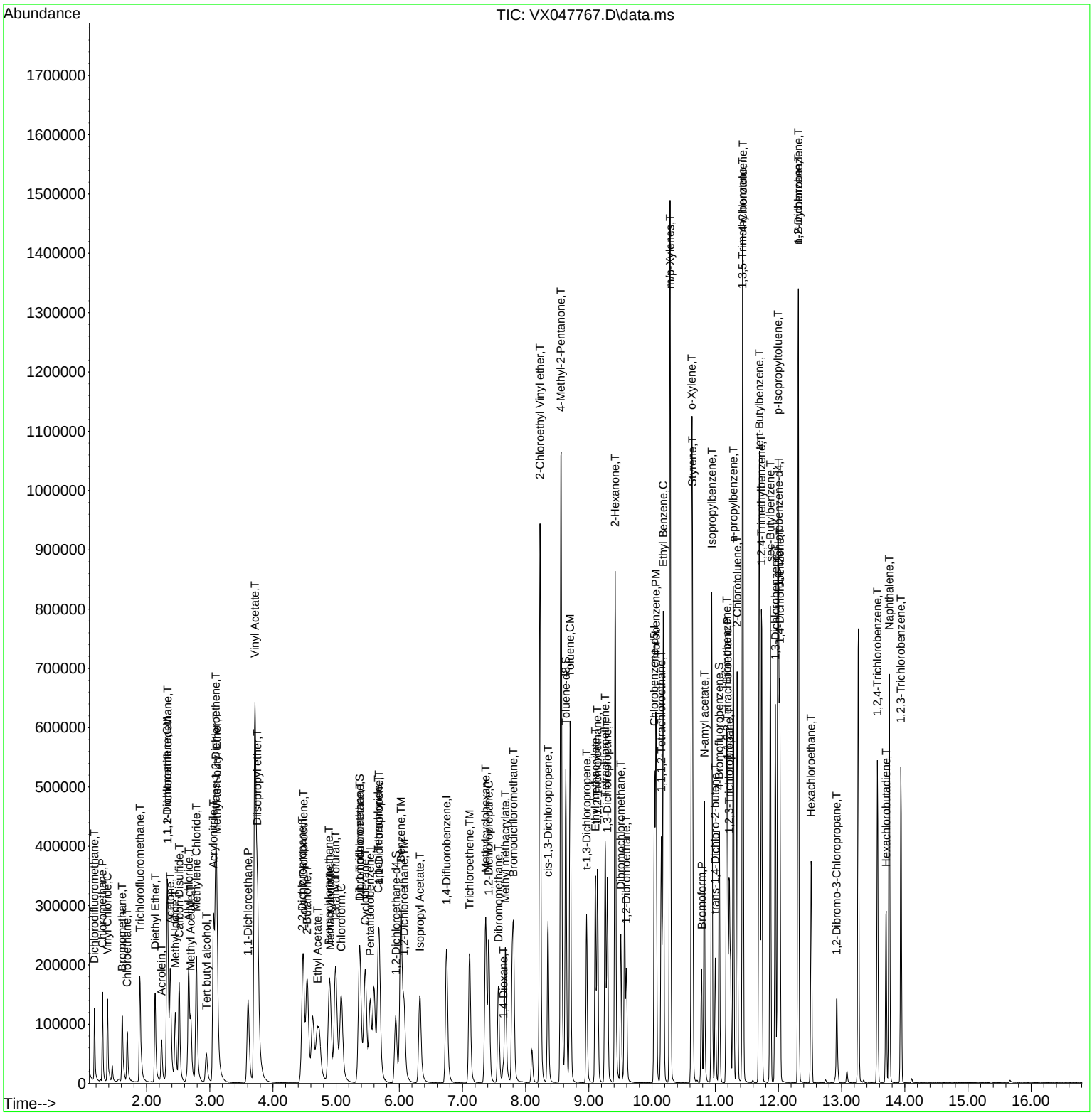
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

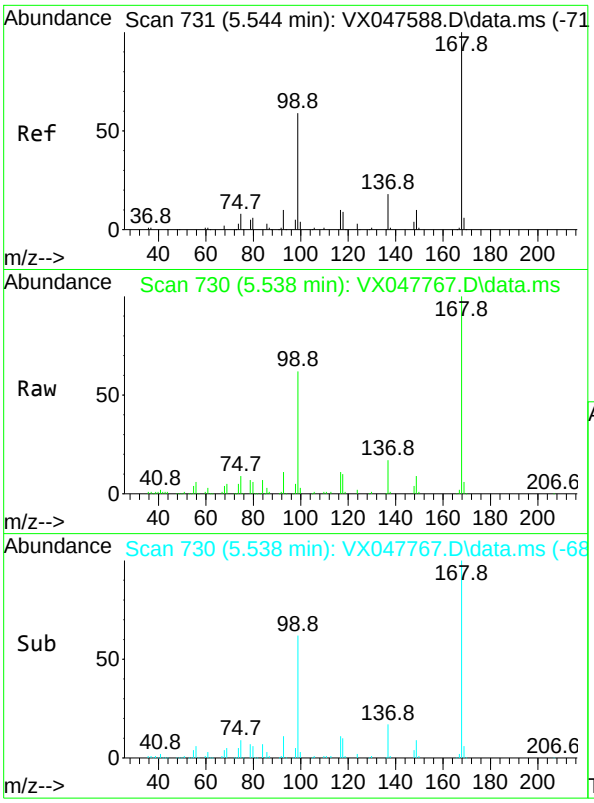
Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

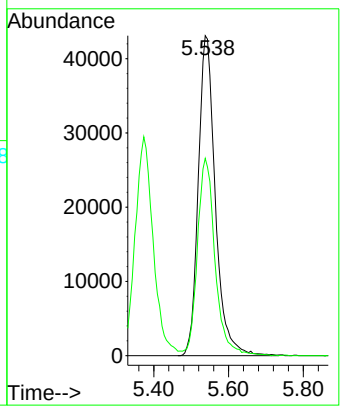




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:168 Resp: 13624

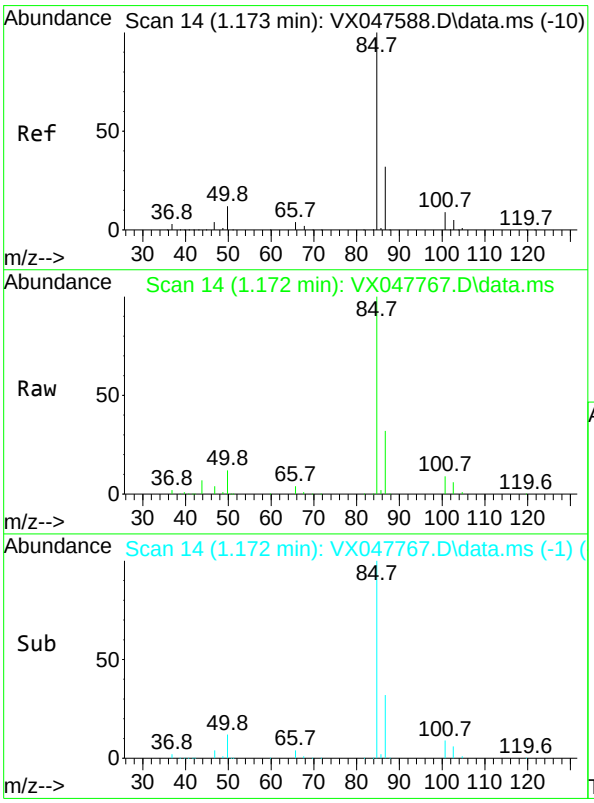
Ion	Ratio	Lower	Upper
168	100		
99	61.6	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

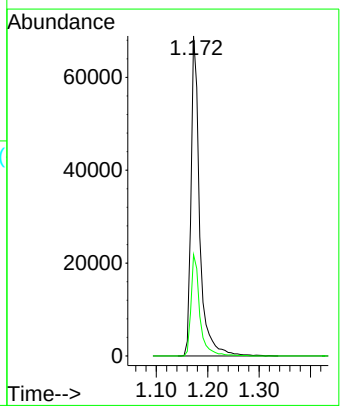
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

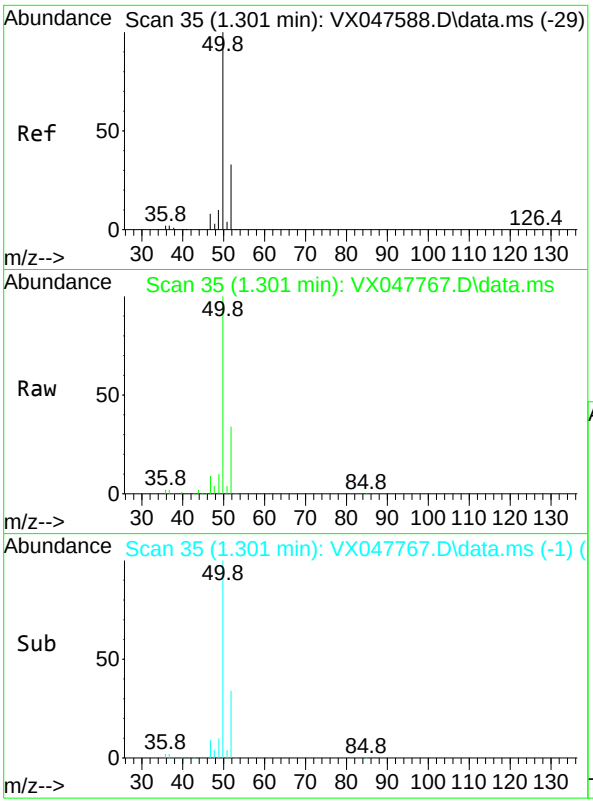


#2
Dichlorodifluoromethane
Concen: 57.267 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 85 Resp: 80794

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3

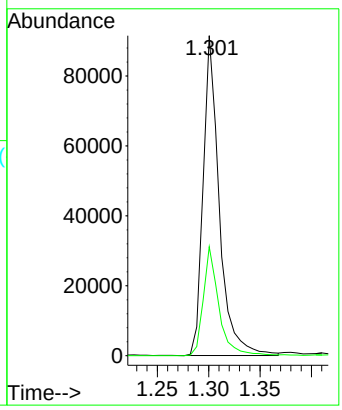




#3
Chloromethane
Concen: 53.970 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 50 Resp: 10007

Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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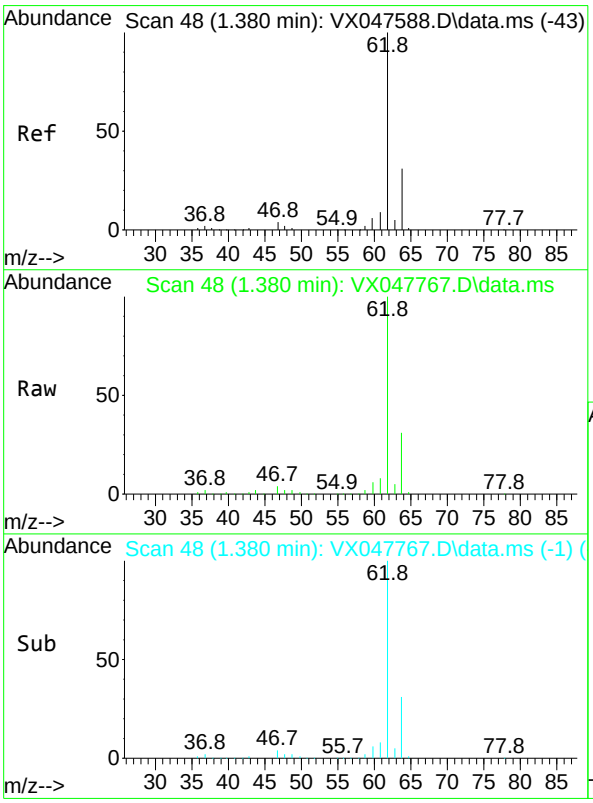
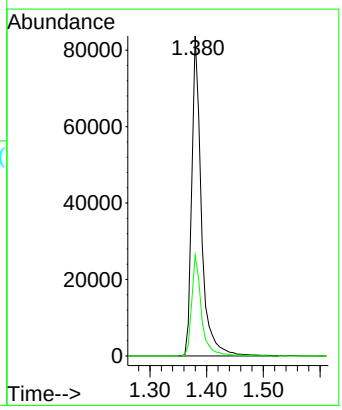
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

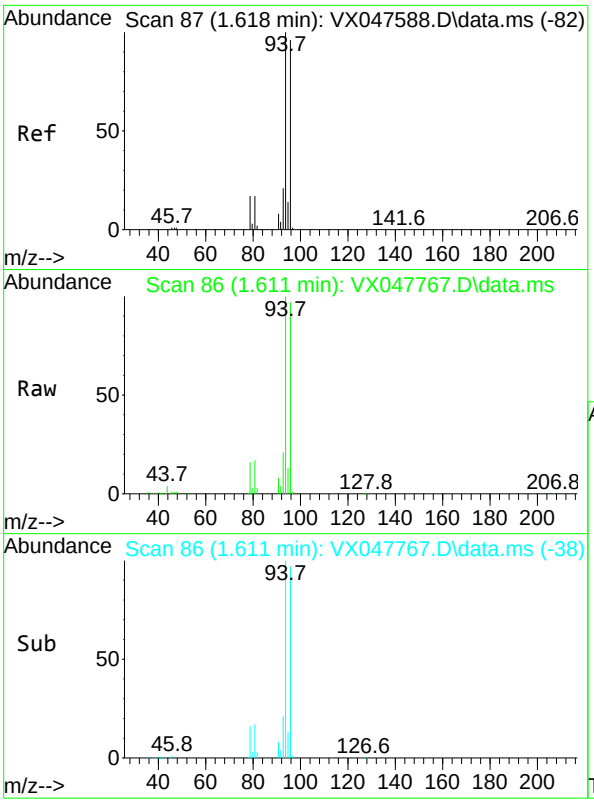


#4
Vinyl Chloride
Concen: 54.491 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 62 Resp: 98905

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.9	37.3

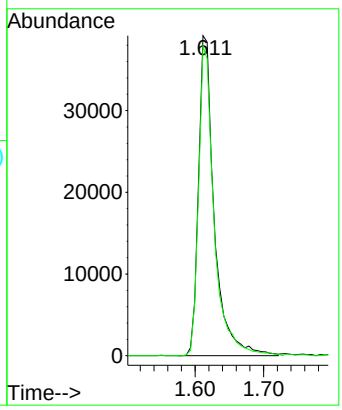




#5
Bromomethane
Concen: 54.792 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 94 Resp: 6306

Ion	Ratio	Lower	Upper
94	100		
96	96.6	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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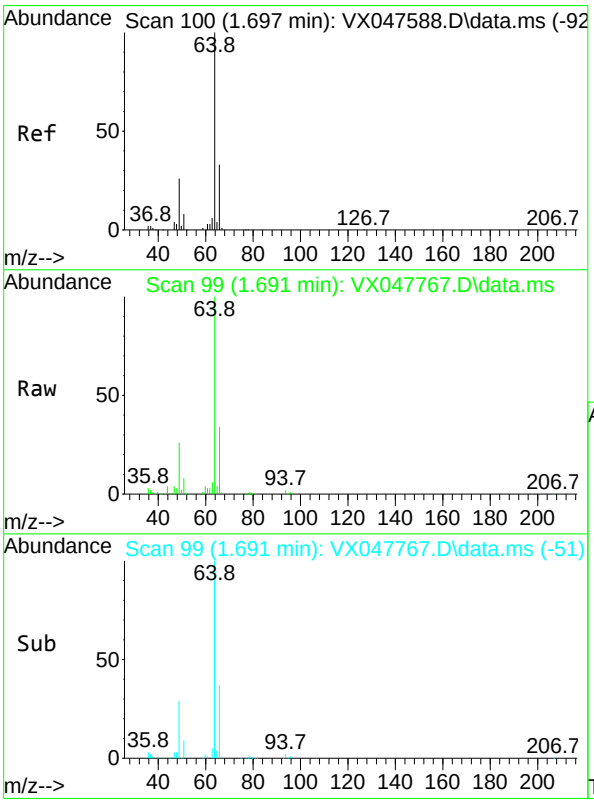
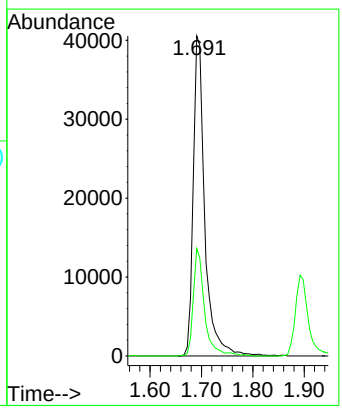
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

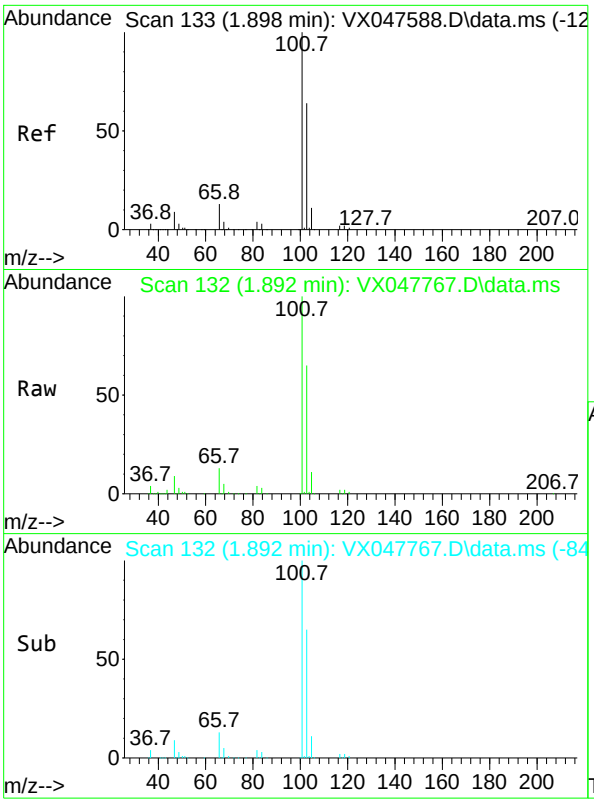


#6
Chloroethane
Concen: 52.368 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 64 Resp: 63530

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.1	39.1

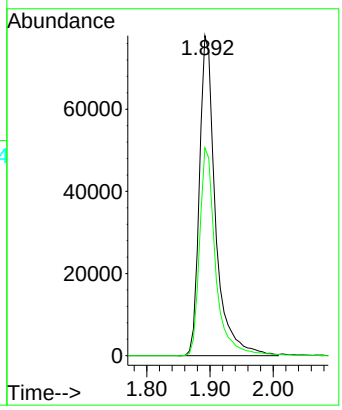




#7
Trichlorofluoromethane
Concen: 51.208 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:101 Resp: 13800

Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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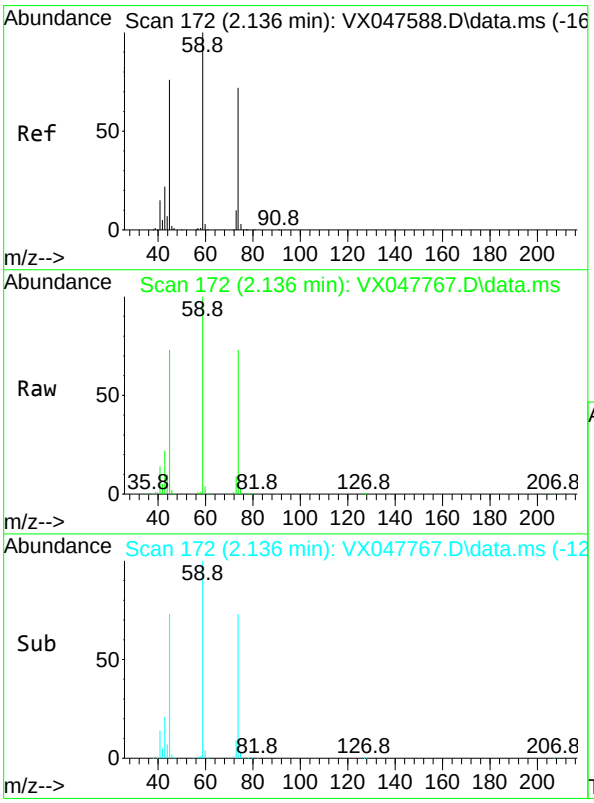
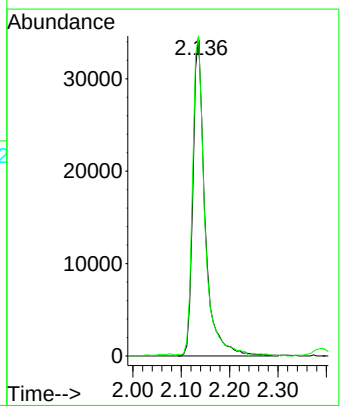
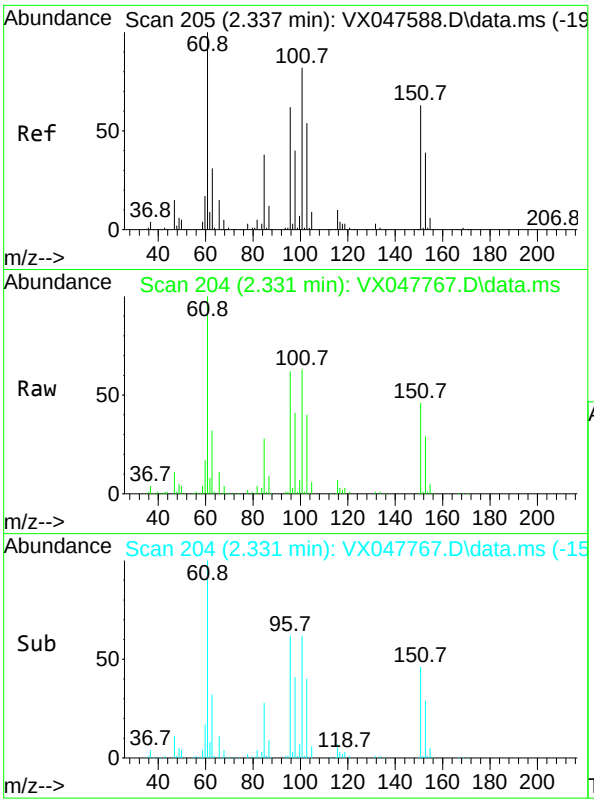


#8
Diethyl Ether
Concen: 54.277 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 74 Resp: 59838

Ion	Ratio	Lower	Upper
74	100		
45	101.9	52.3	156.8

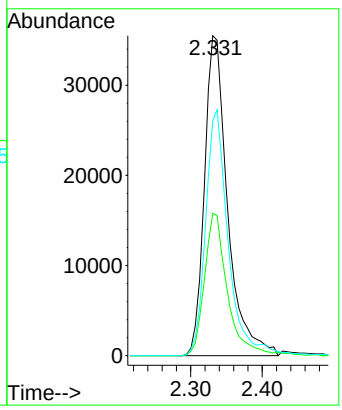




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.667 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:101 Resp: 7984

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	75.7	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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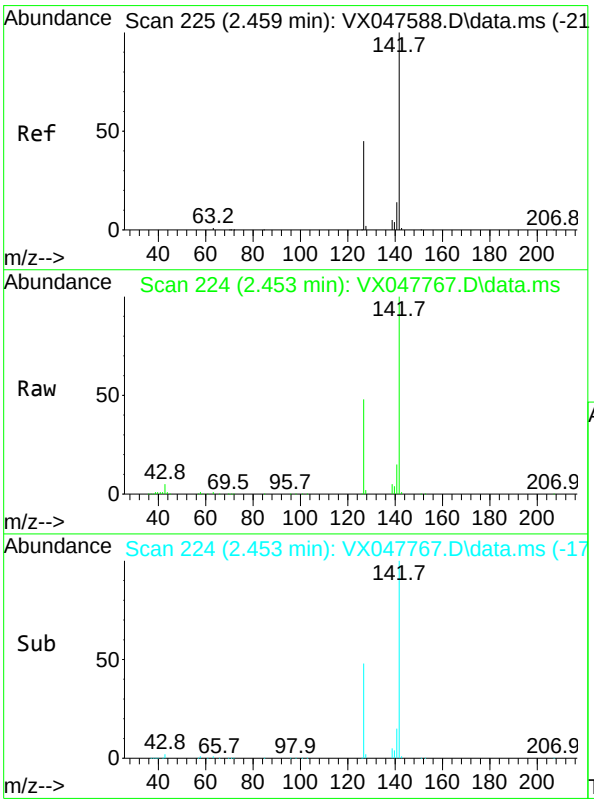
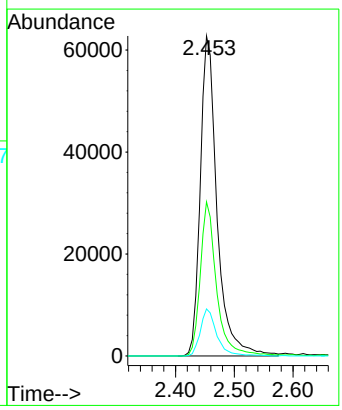
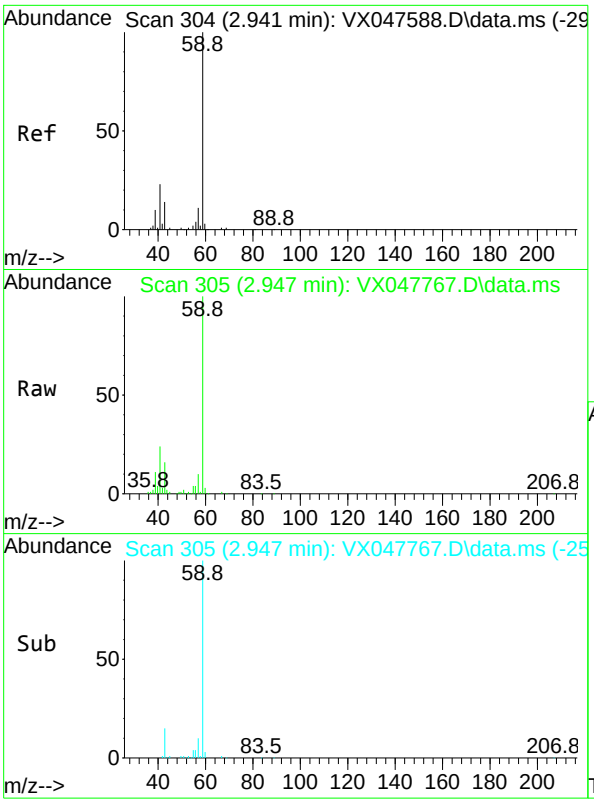


#10
Methyl Iodide
Concen: 50.757 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:142 Resp: 124745

Ion	Ratio	Lower	Upper
142	100		
127	46.7	37.2	55.8
141	14.5	11.4	17.0

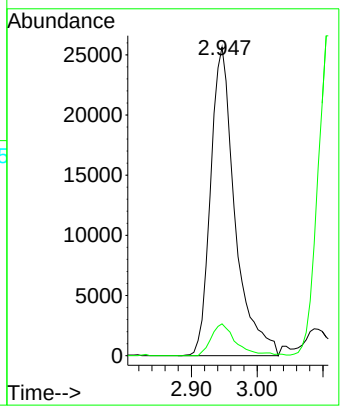




#11
Tert butyl alcohol
Concen: 273.139 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 59 Resp: 6597

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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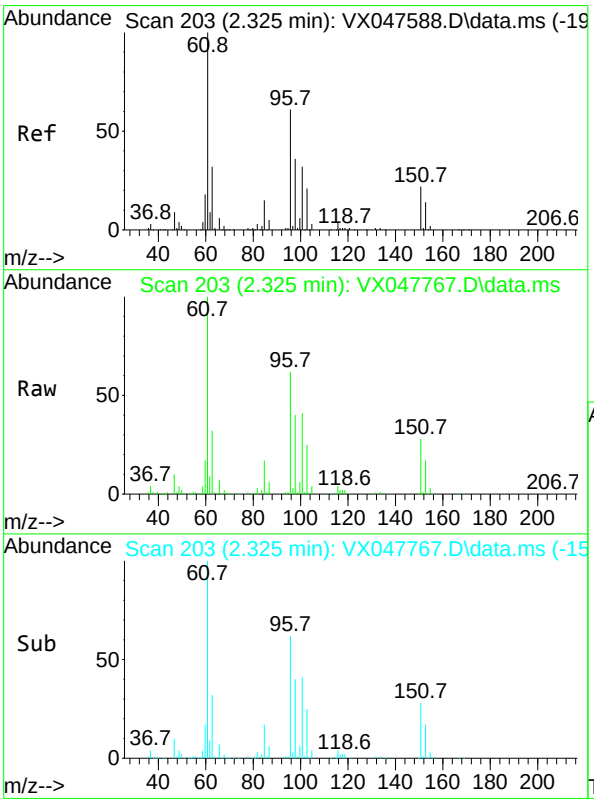
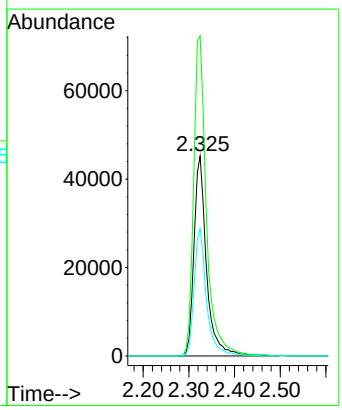
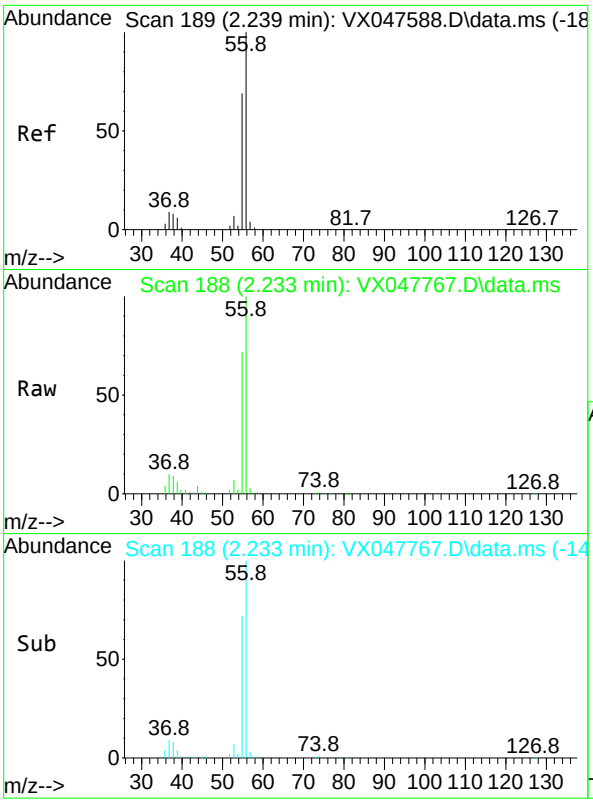


#12
1,1-Dichloroethene
Concen: 53.075 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 96 Resp: 85914

Ion	Ratio	Lower	Upper
96	100		
61	160.1	131.0	196.6
98	63.6	47.7	71.5

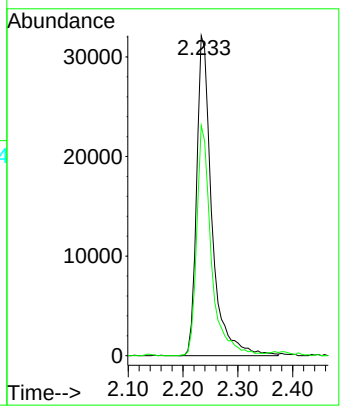




#13
Acrolein
Concen: 278.592 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 56 Resp: 6200

Ion	Ratio	Lower	Upper
56	100		
55	69.2	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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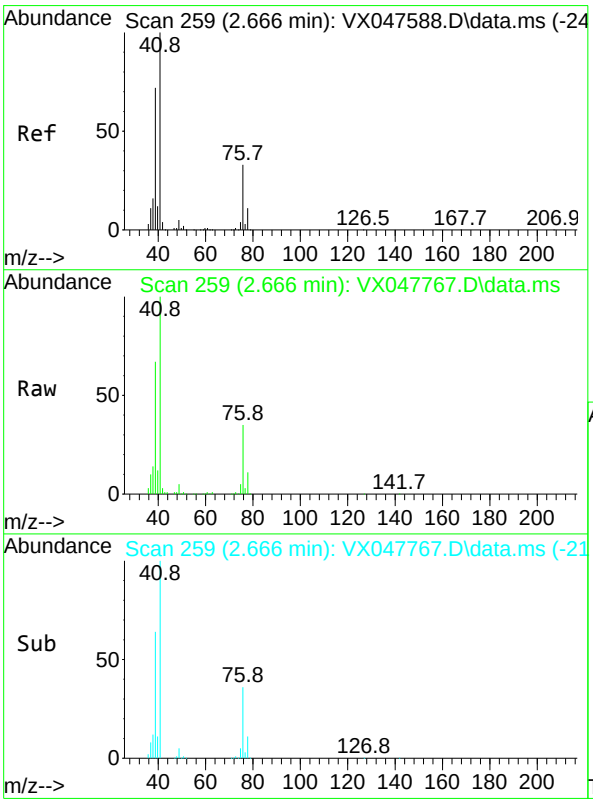
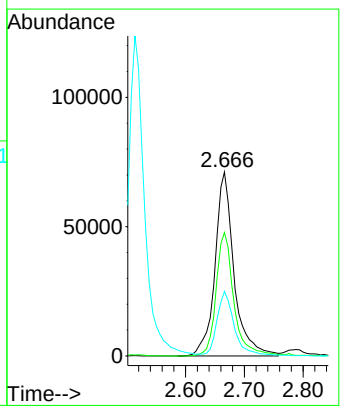
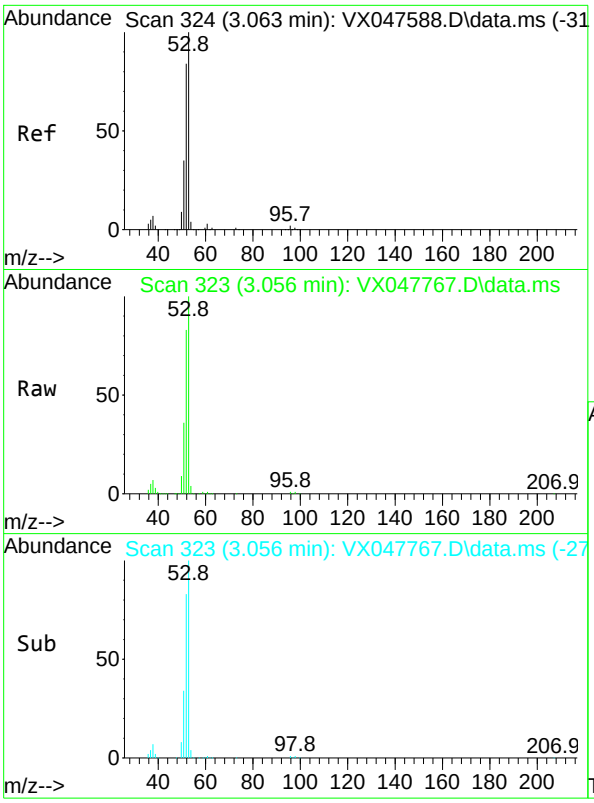


#14
Allyl chloride
Concen: 47.997 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 160323

Ion	Ratio	Lower	Upper
41	100		
39	62.7	54.7	82.1
76	31.5	25.7	38.5

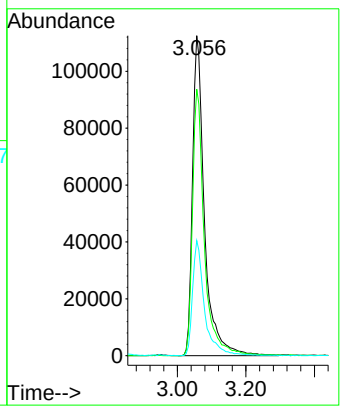




#15
Acrylonitrile
Concen: 306.873 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 53 Resp: 27454

Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	35.9	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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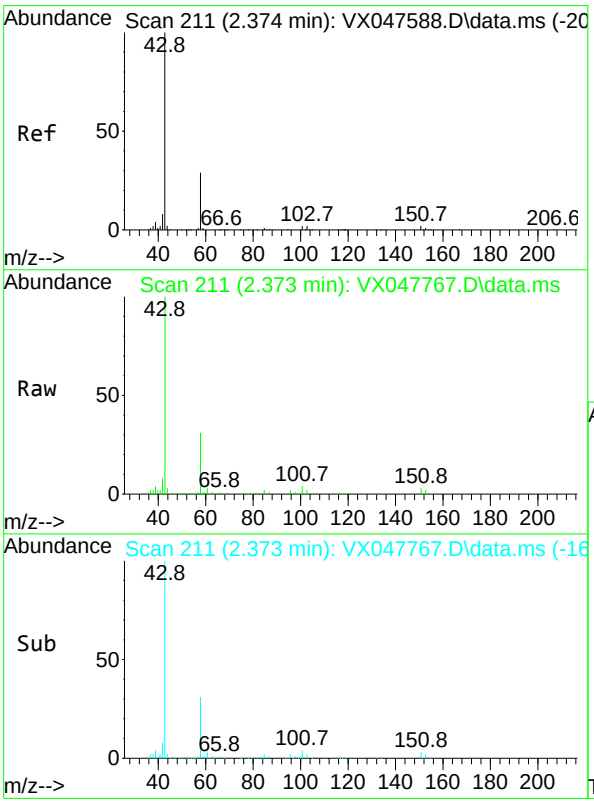
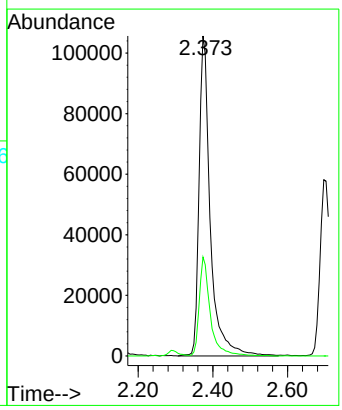
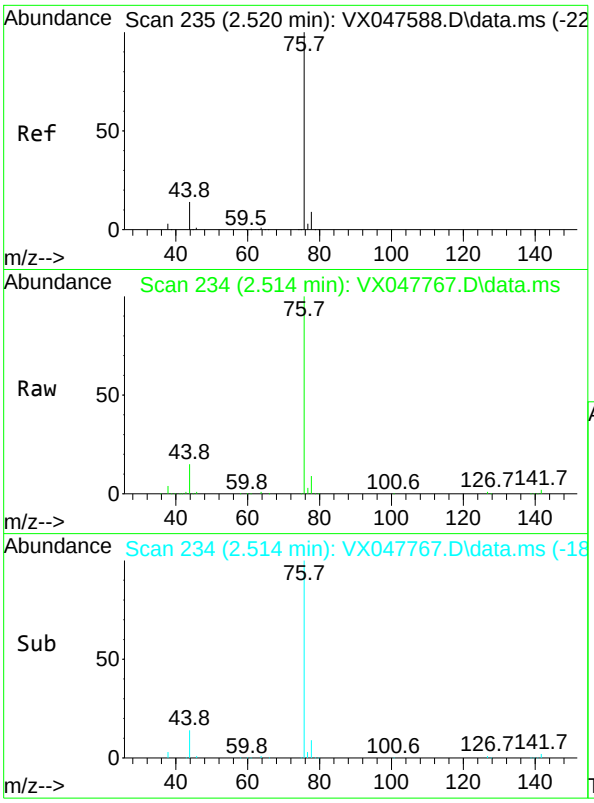


#16
Acetone
Concen: 233.292 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 219982

Ion	Ratio	Lower	Upper
43	100		
58	30.9	23.4	35.0

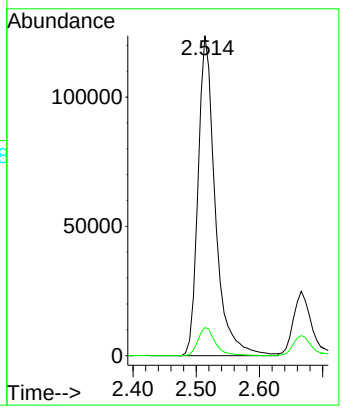




#17
Carbon Disulfide
Concen: 52.888 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 76 Resp: 23437

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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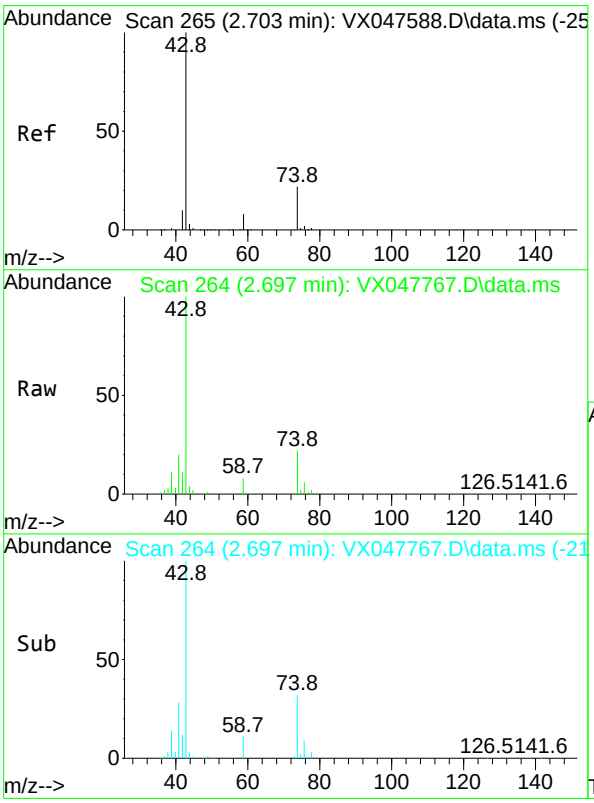
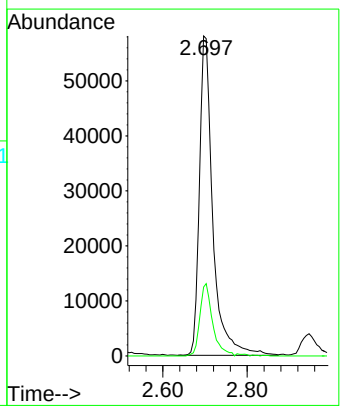
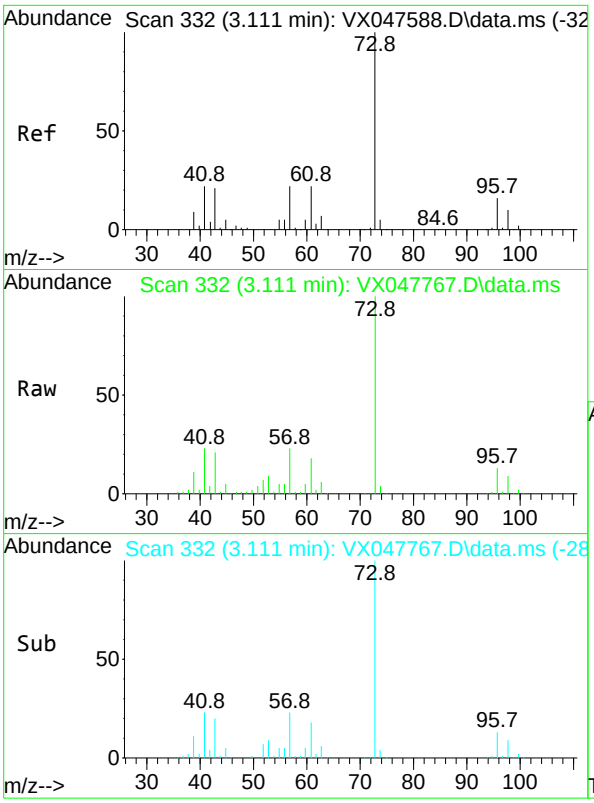


#18
Methyl Acetate
Concen: 61.011 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 128034

Ion	Ratio	Lower	Upper
43	100		
74	21.6	17.4	26.2

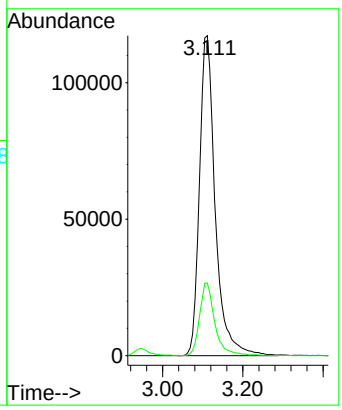




#19
Methyl tert-butyl Ether
Concen: 54.228 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 73 Resp: 32043

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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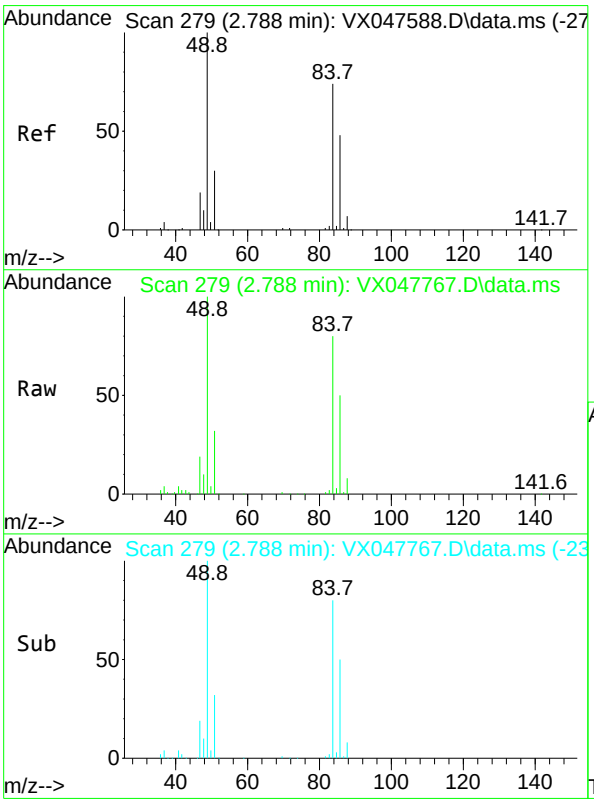
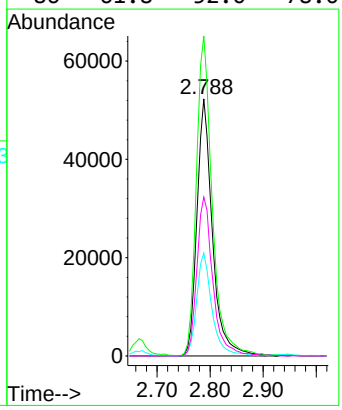
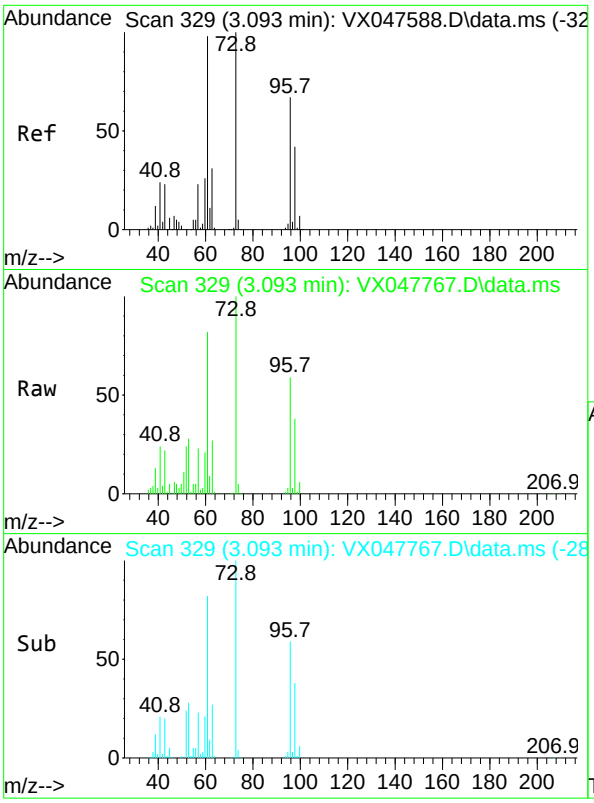


#20
Methylene Chloride
Concen: 53.176 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 84 Resp: 106137

Ion	Ratio	Lower	Upper
84	100		
49	124.3	108.6	162.8
51	39.9	32.6	48.8
86	61.8	52.0	78.0

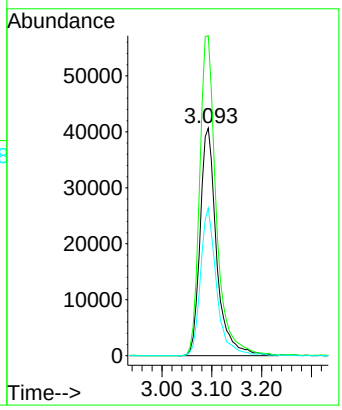




#21
trans-1,2-Dichloroethene
Concen: 53.545 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 96 Resp: 9331

Ion	Ratio	Lower	Upper
96	100		
61	140.5	116.2	174.2
98	64.9	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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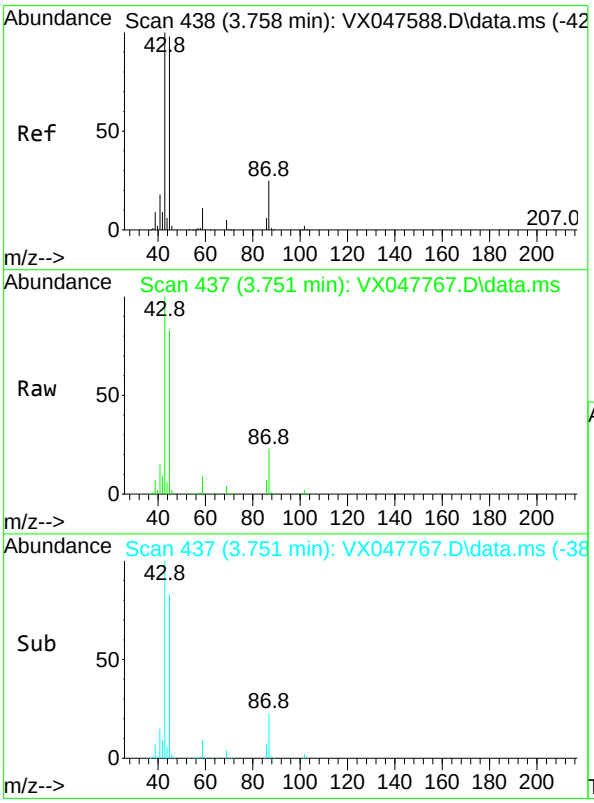
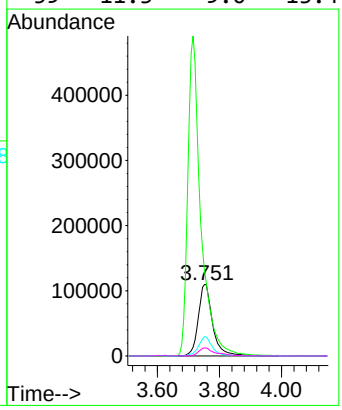
Supervised By :Mahesh Dadoda 09/26/2025

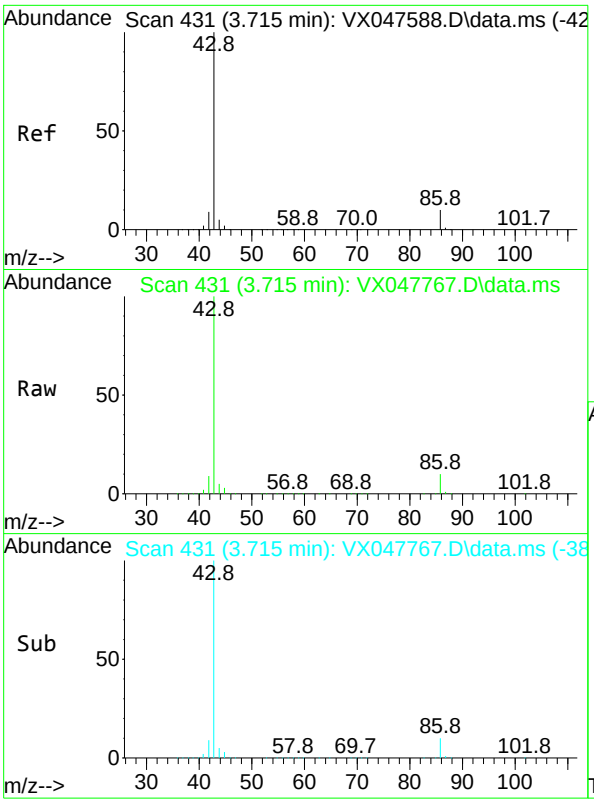


#22
Diisopropyl ether
Concen: 54.161 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 45 Resp: 350616

Ion	Ratio	Lower	Upper
45	100		
43	119.1	81.0	121.4
87	27.2	20.3	30.5
59	11.3	9.0	13.4

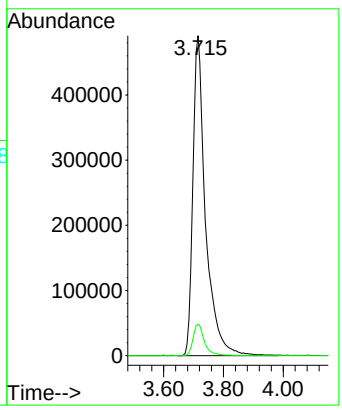




#23
Vinyl Acetate
Concen: 278.405 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 144245

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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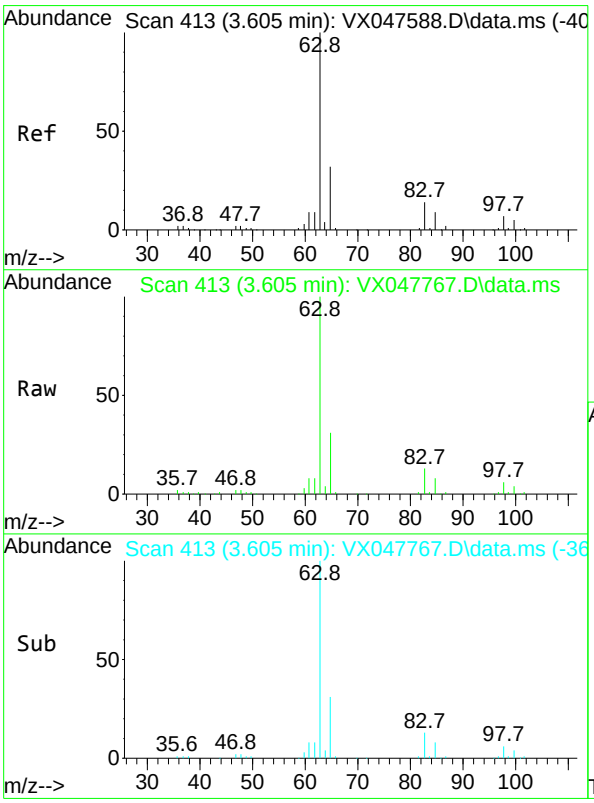
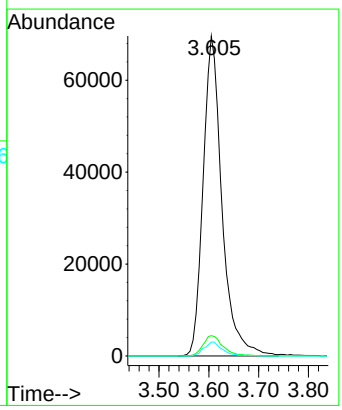
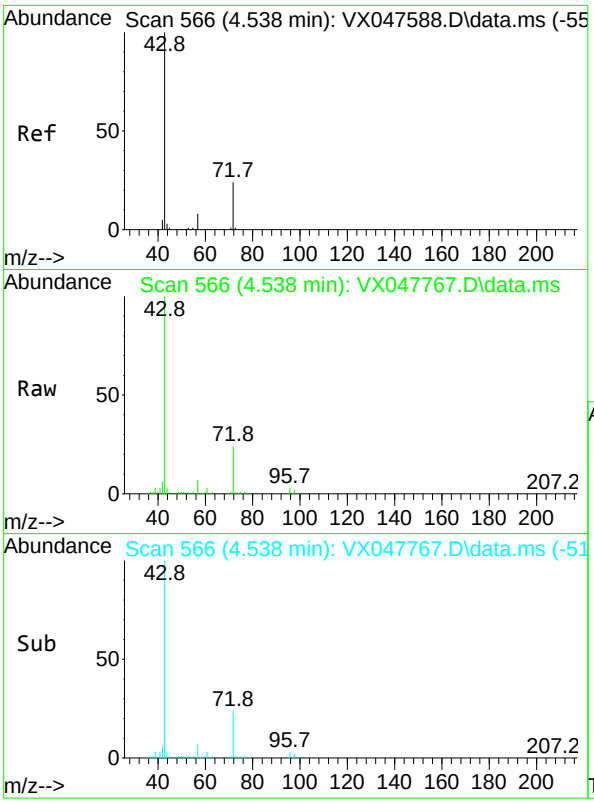


#24
1,1-Dichloroethane
Concen: 53.106 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 182725

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.3	2.3	6.9

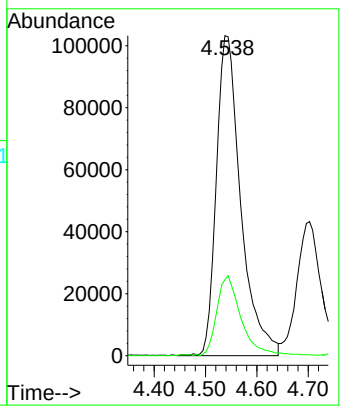




#25
2-Butanone
Concen: 289.378 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 34036

Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.1	30.1



Instrument :
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ClientSampleId :
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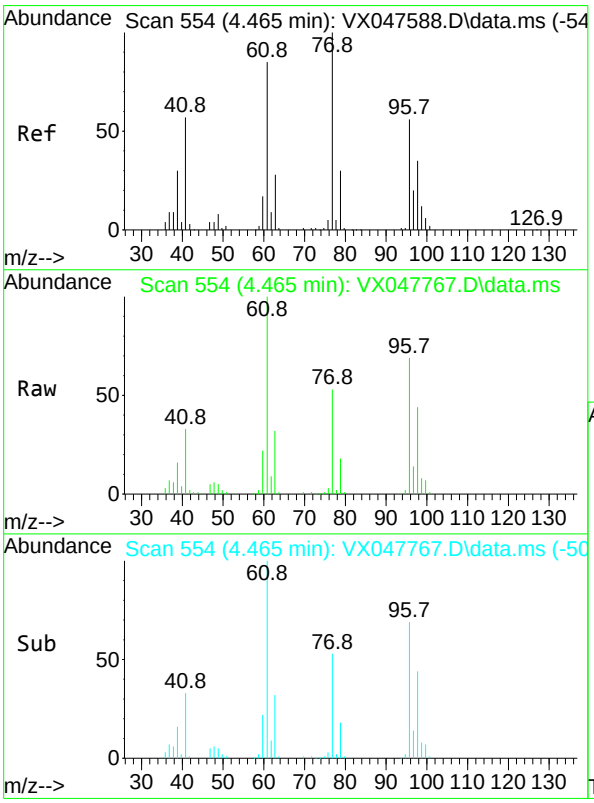
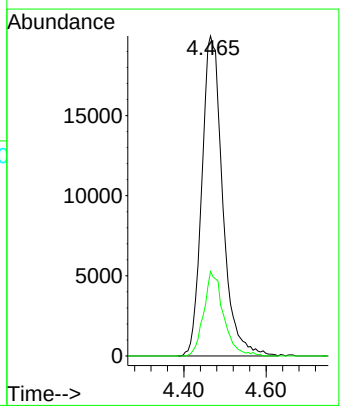
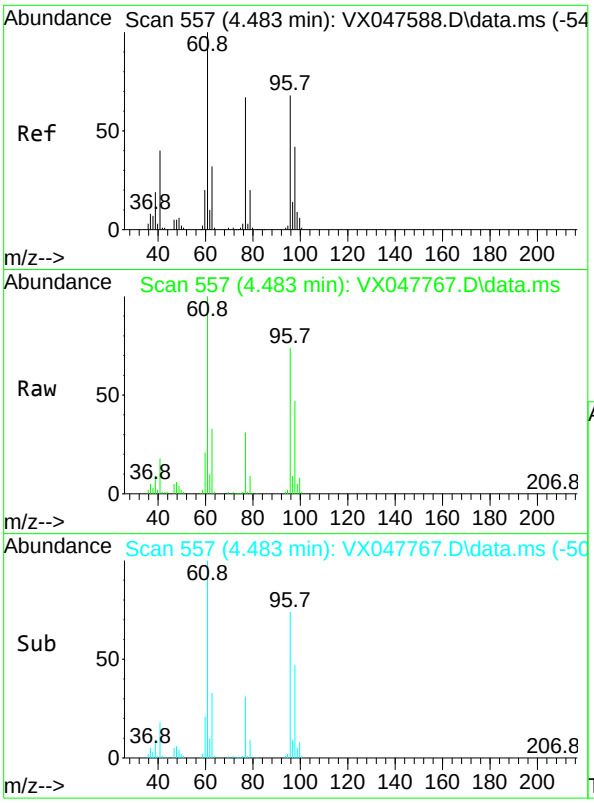


#26
2,2-Dichloropropane
Concen: 24.508 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 77 Resp: 70096

Ion	Ratio	Lower	Upper
77	100		
97	25.0	10.9	32.7

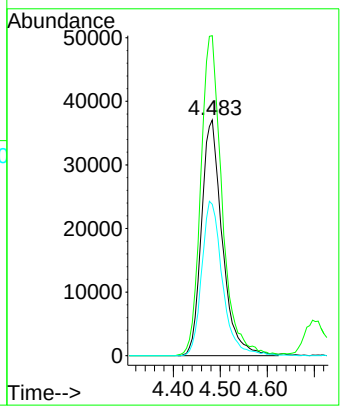




#27
cis-1,2-Dichloroethene
Concen: 53.299 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 96 Resp: 11375

Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	303.2
98	65.5	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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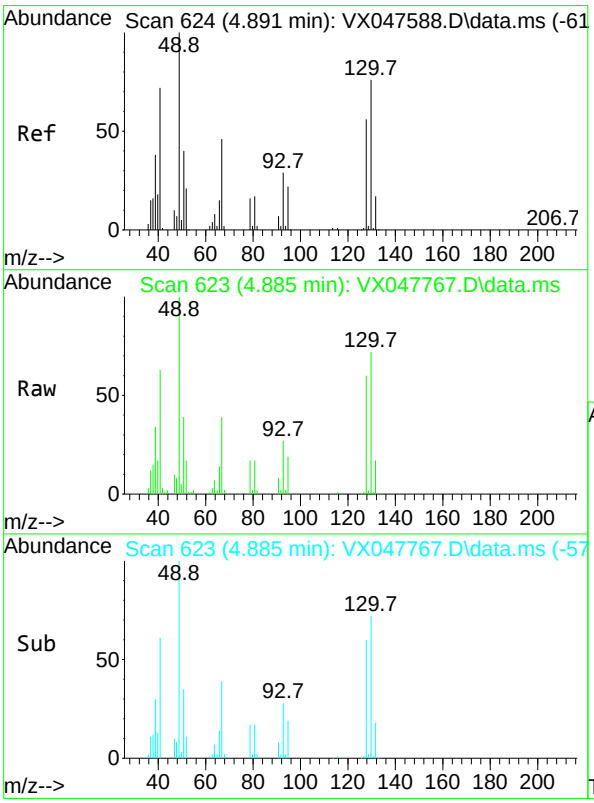
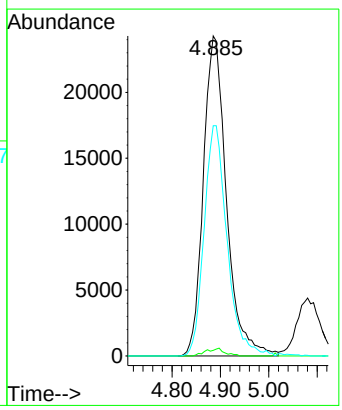
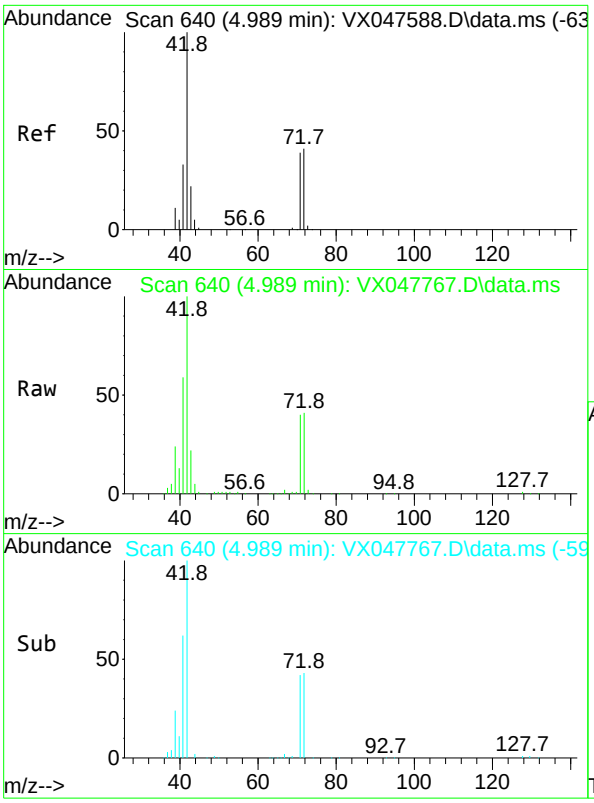


#28
Bromochloromethane
Concen: 53.622 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 49 Resp: 80547

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	71.6	57.8	86.8





#29
Tetrahydrofuran
Concen: 311.862 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 42 Resp: 22066

Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.2	51.2
71	39.6	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
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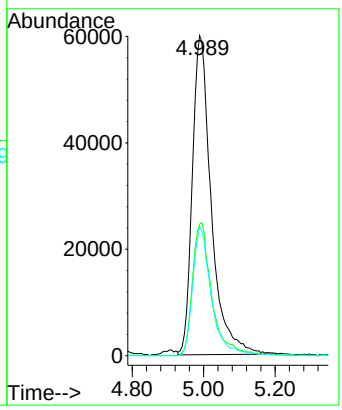
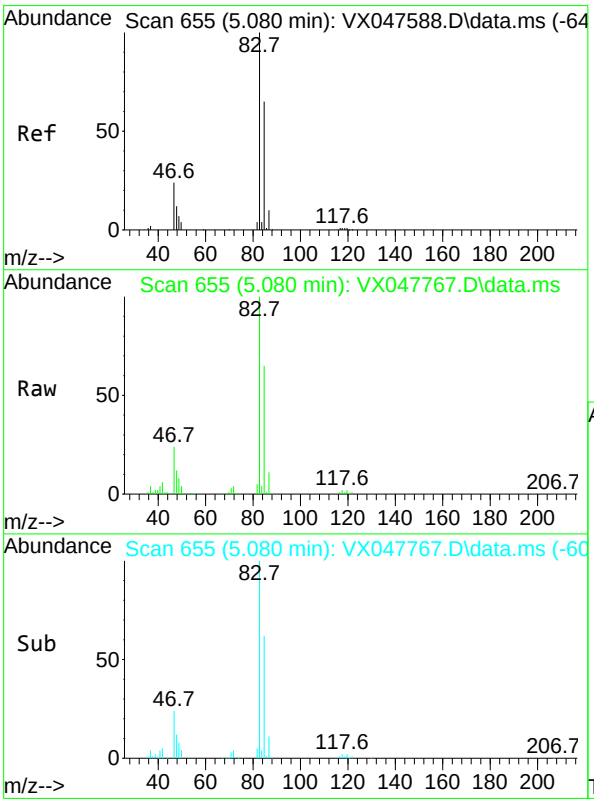
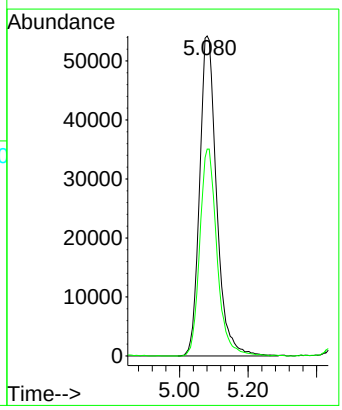


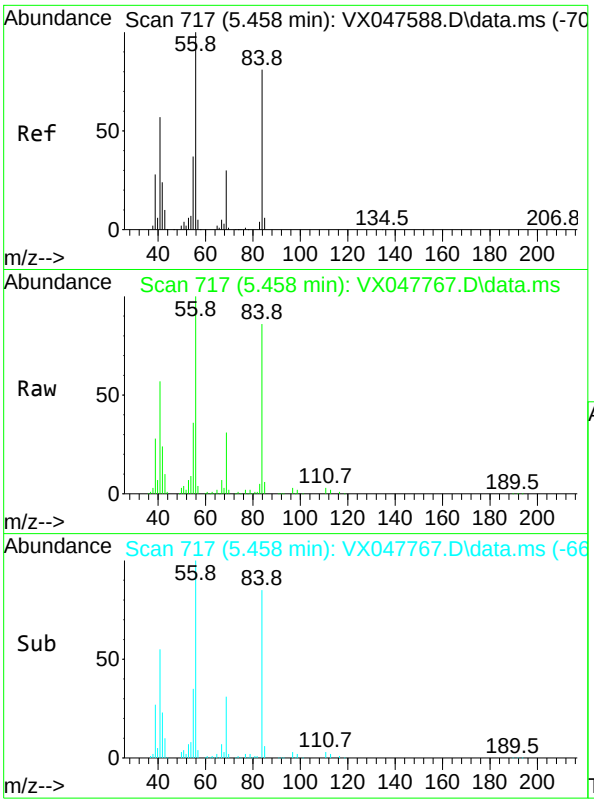


#30
Chloroform
Concen: 53.913 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 187454

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6

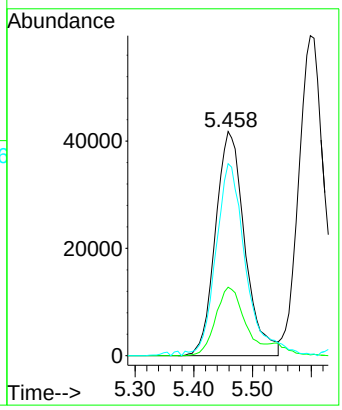




#31
Cyclohexane
Concen: 50.693 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 56 Resp: 14527

Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.8	35.8
84	83.7	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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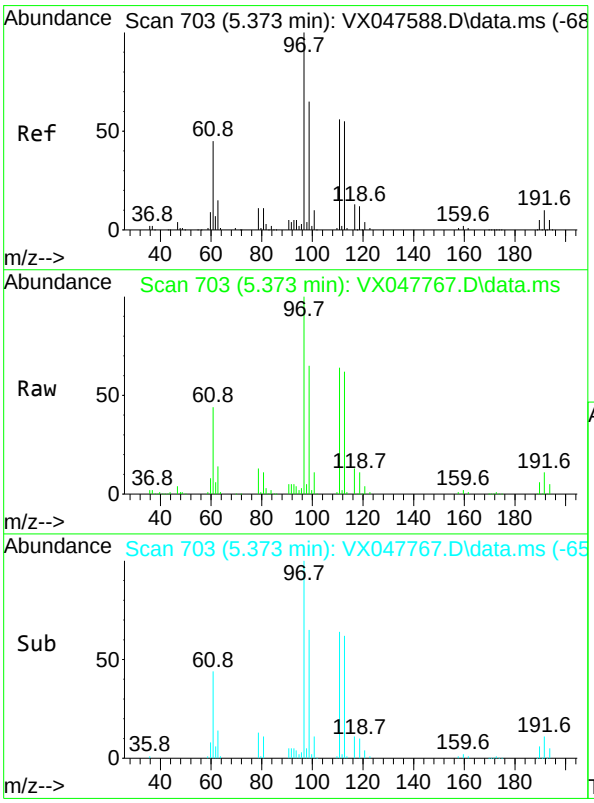
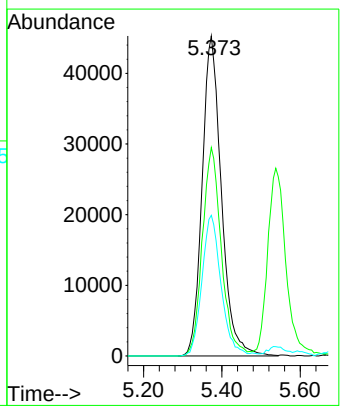
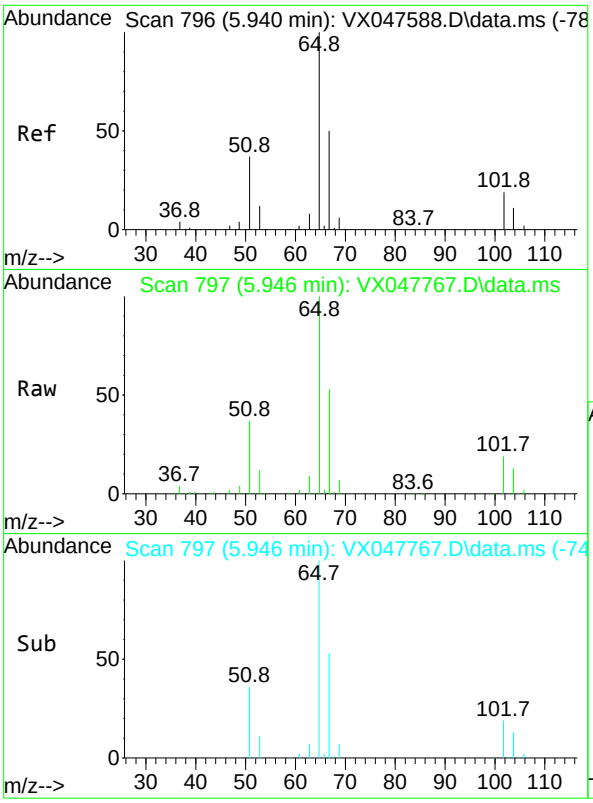


#32
1,1,1-Trichloroethane
Concen: 52.395 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 97 Resp: 154526

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.6	76.0
61	43.6	35.8	53.8

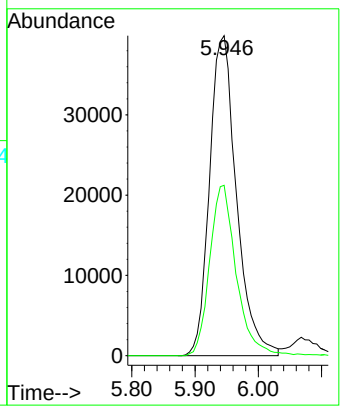




#33
1,2-Dichloroethane-d4
Concen: 54.388 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 65 Resp: 11794

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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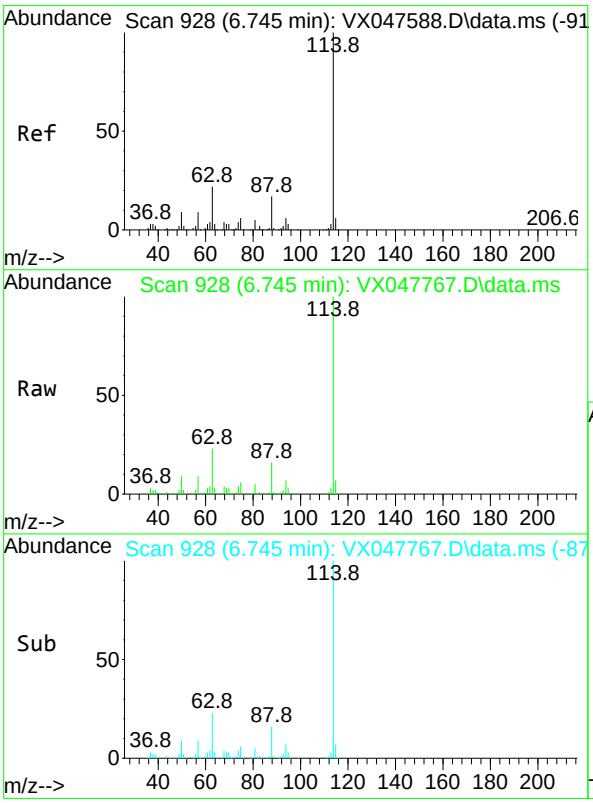
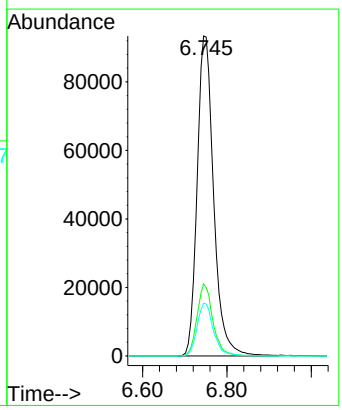
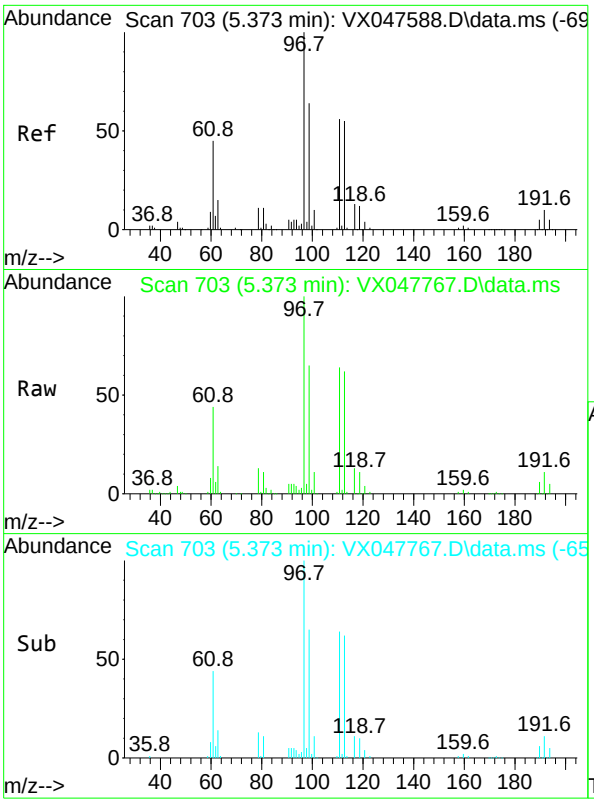


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:114 Resp: 254252

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.5	0.0	34.2

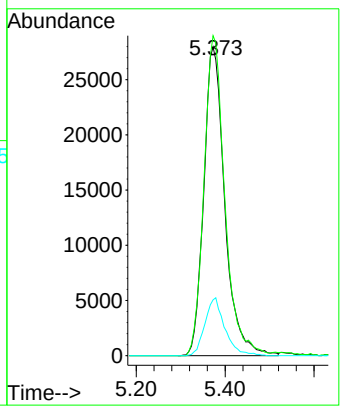




#35
Dibromofluoromethane
Concen: 53.983 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:113 Resp: 9204

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	17.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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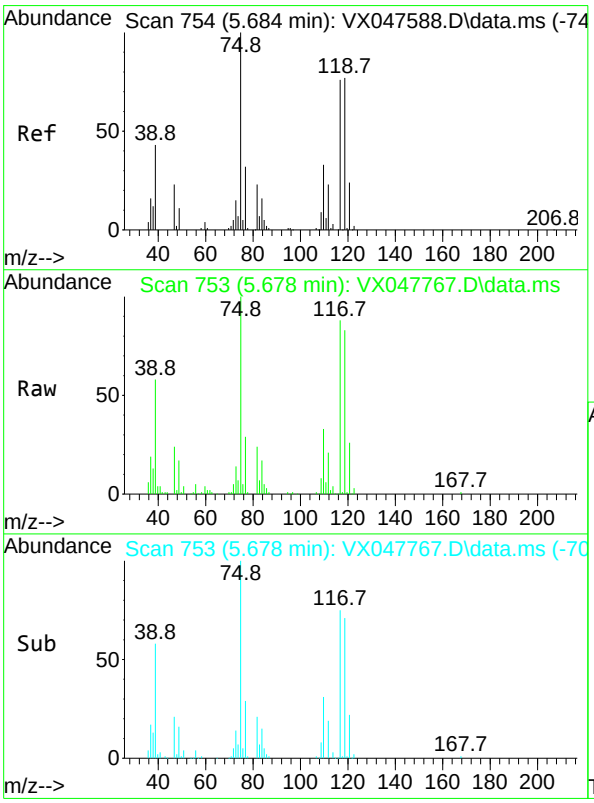
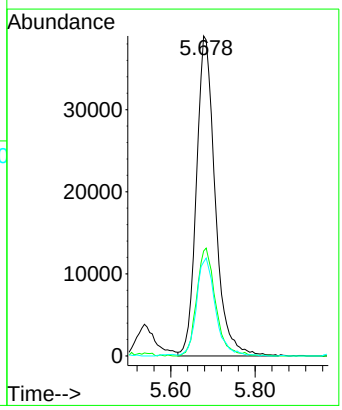
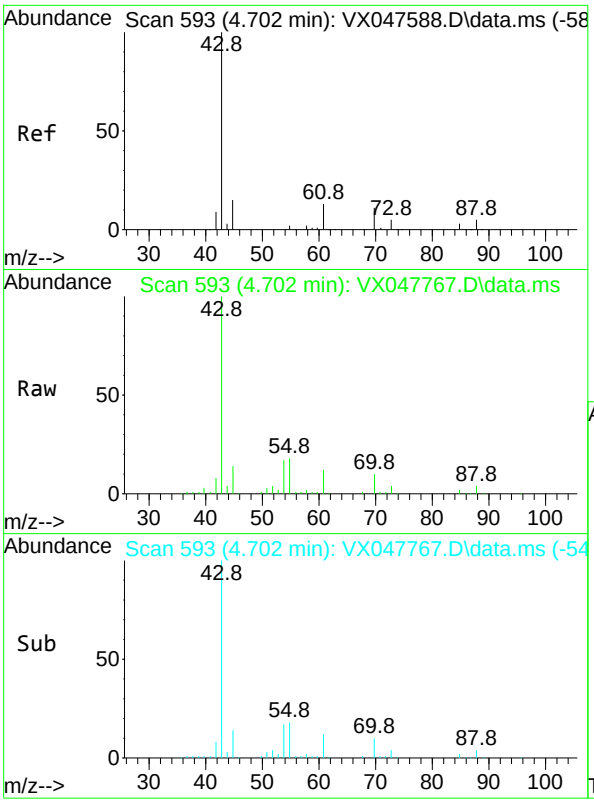


#36
1,1-Dichloropropene
Concen: 48.437 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 120688

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.7	50.1
77	30.0	24.3	36.5





#37
Ethyl Acetate
Concen: 55.869 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 14904

Ion	Ratio	Lower	Upper
43	100		
61	11.6	9.8	14.8
70	9.4	7.9	11.9

Instrument :
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ClientSampleId :
VSTDCCC050EC

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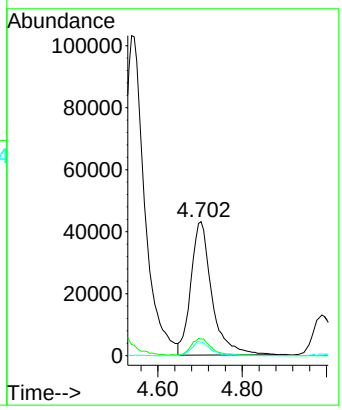
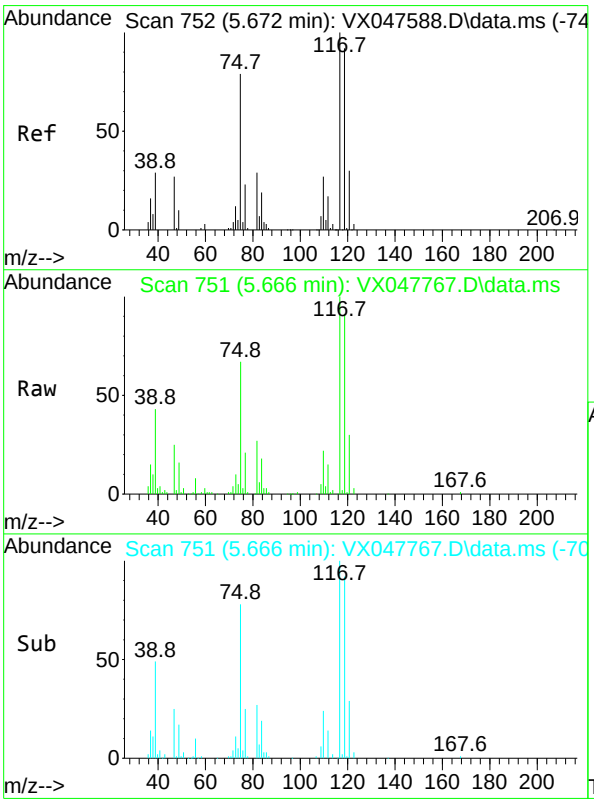
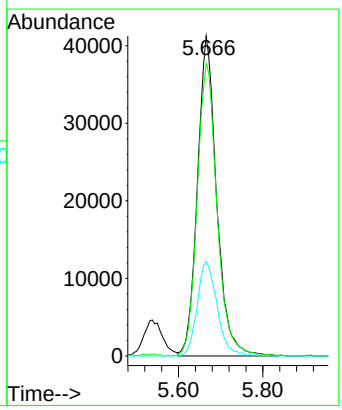


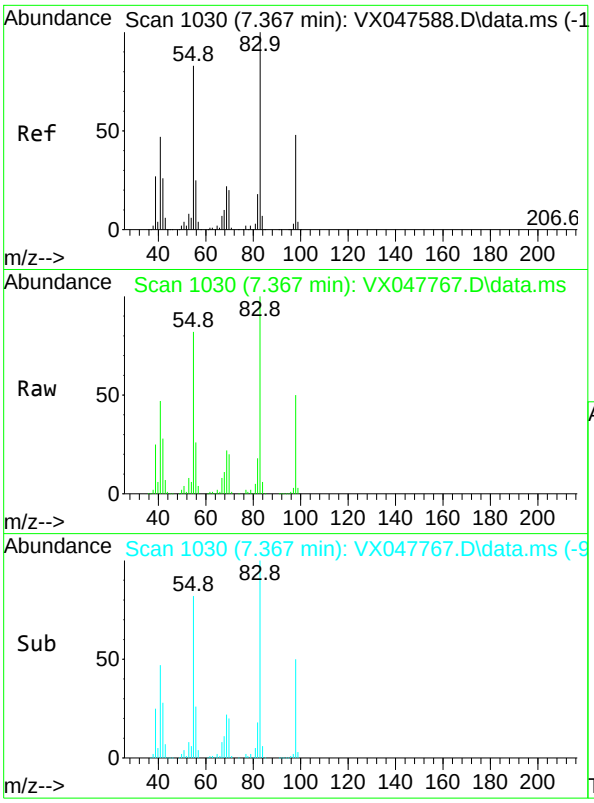


#38
Carbon Tetrachloride
Concen: 48.322 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:117 Resp: 130818

Ion	Ratio	Lower	Upper
117	100		
119	91.2	73.4	110.2
121	29.5	23.8	35.6

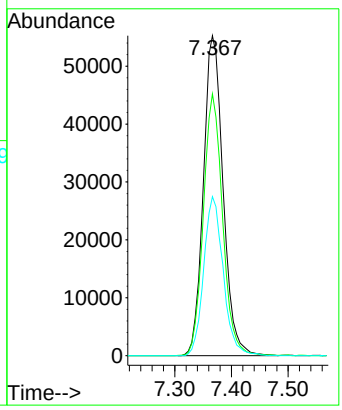




#39
Methylcyclohexane
Concen: 47.171 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 13341

Ion	Ratio	Lower	Upper
83	100		
55	81.7	66.4	99.6
98	49.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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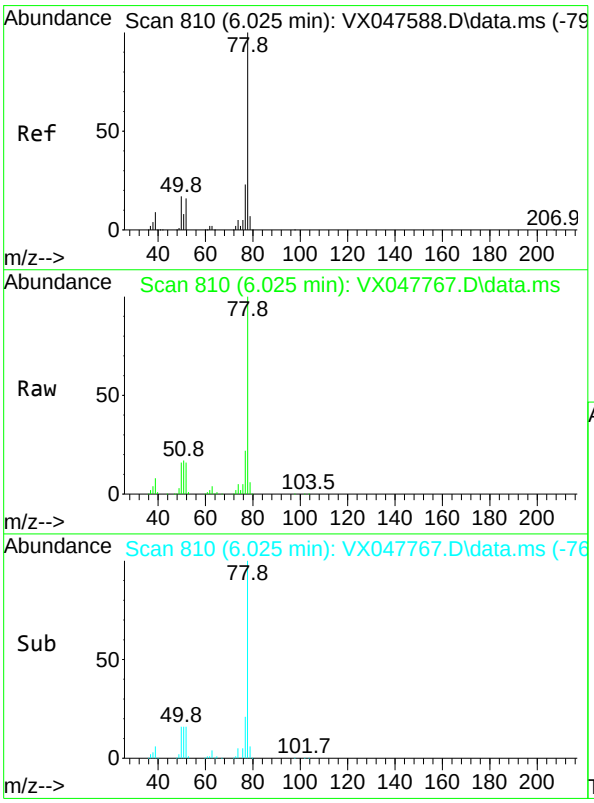
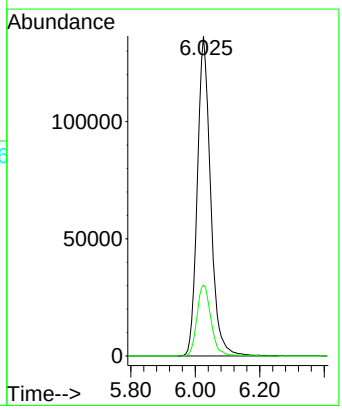
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

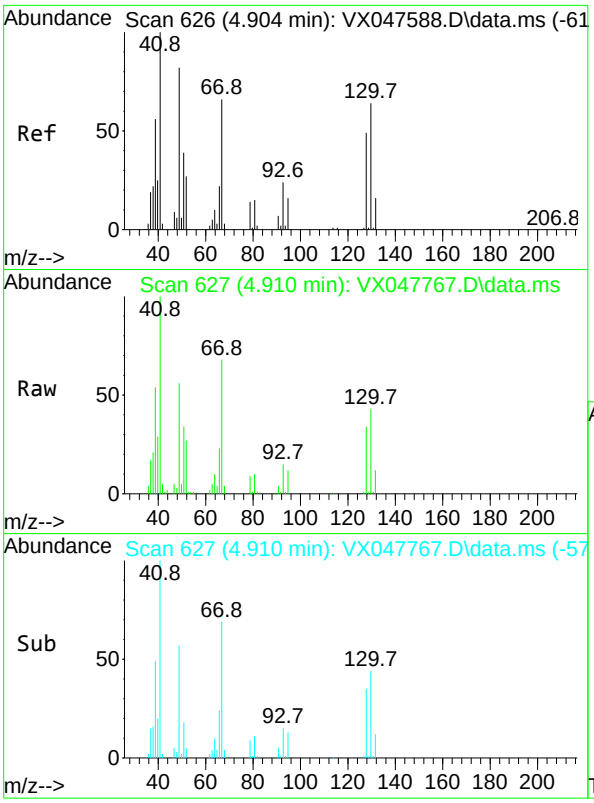


#40
Benzene
Concen: 51.523 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 78 Resp: 389912

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.8	28.2

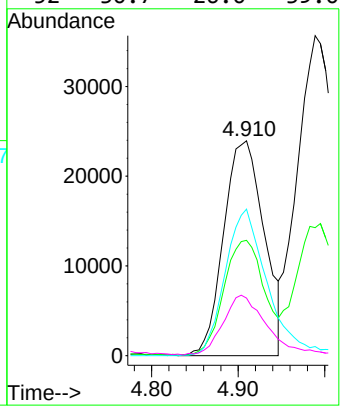




#41
Methacrylonitrile
Concen: 56.618 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 7797

Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.3	64.9
67	73.2	58.6	87.8
52	30.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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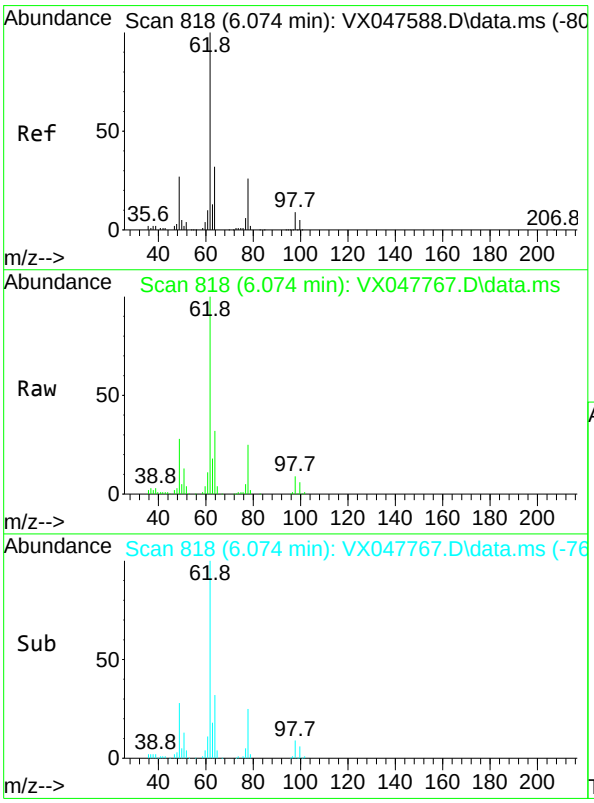
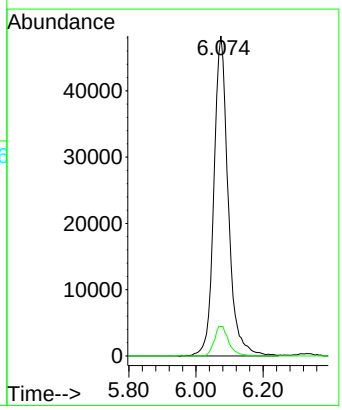
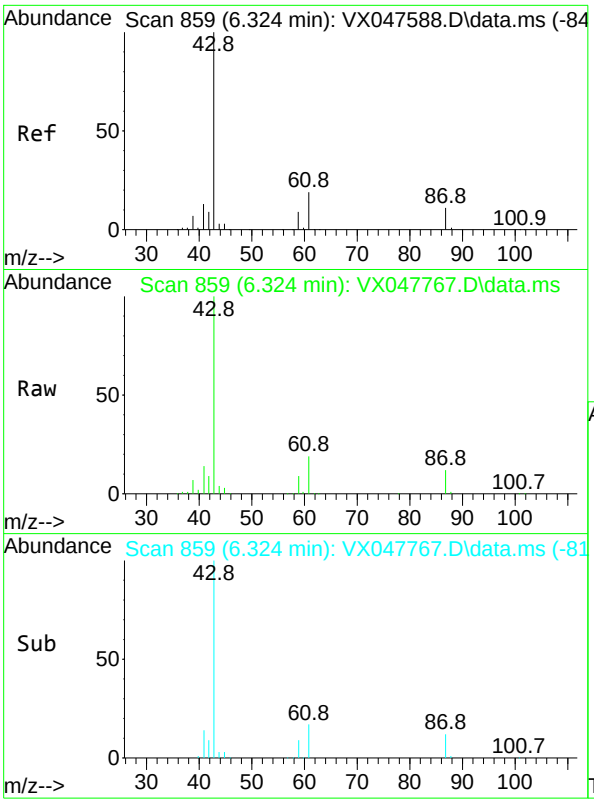


#42
1,2-Dichloroethane
Concen: 49.663 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 62 Resp: 143000

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0

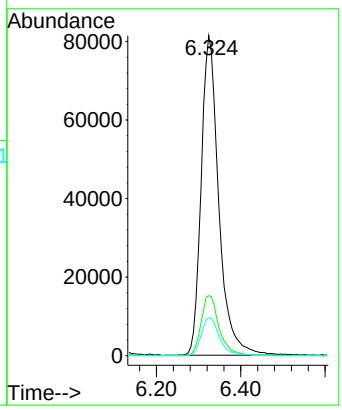




#43
Isopropyl Acetate
Concen: 53.933 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 23598

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.4	9.6	14.4



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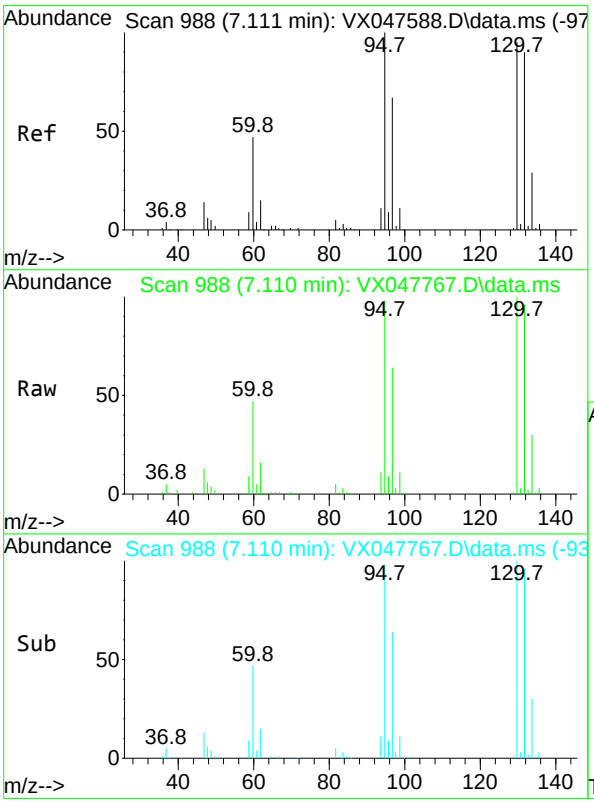
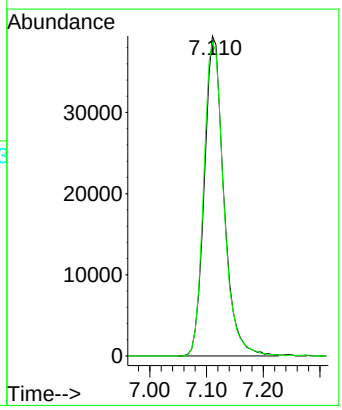
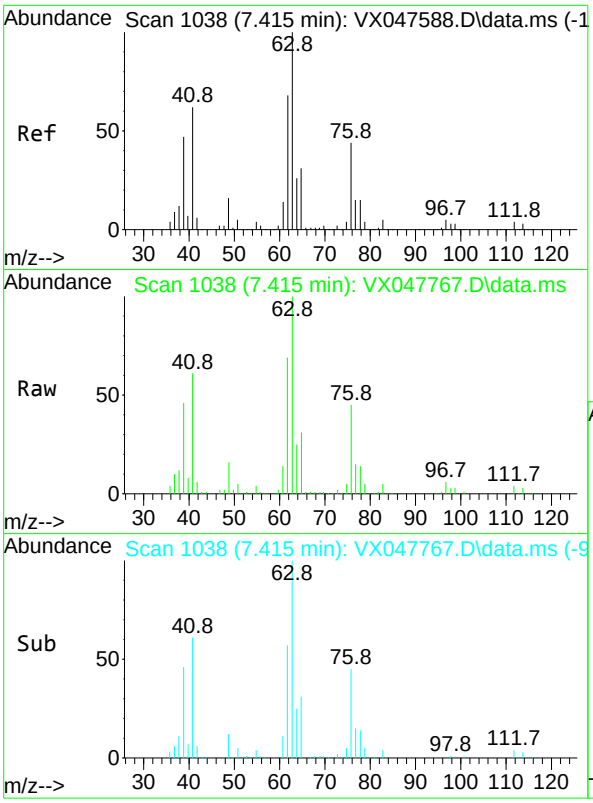


#44
Trichloroethene
Concen: 51.488 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:130 Resp: 94203

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	210.8

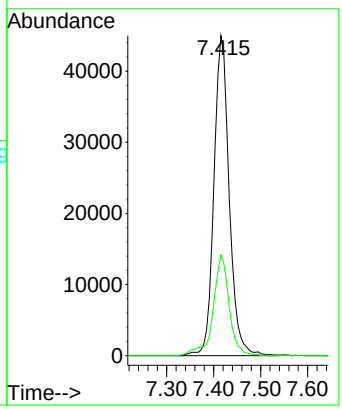




#45
1,2-Dichloropropane
Concen: 52.653 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 10203

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1



Instrument :
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ClientSampleId :
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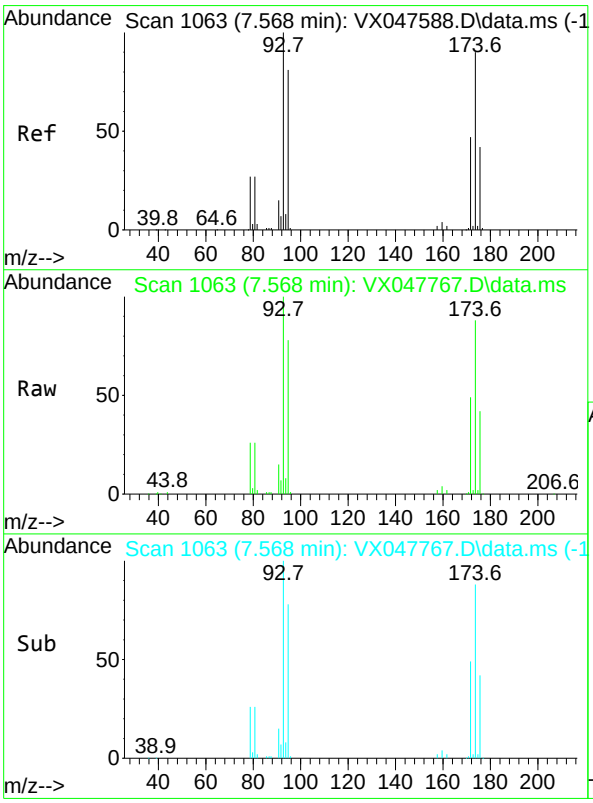
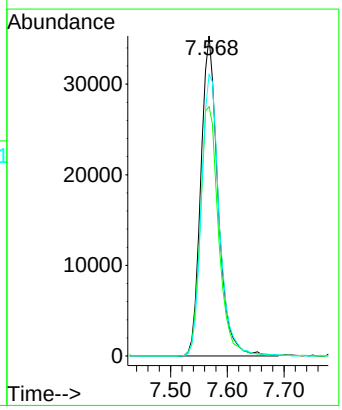
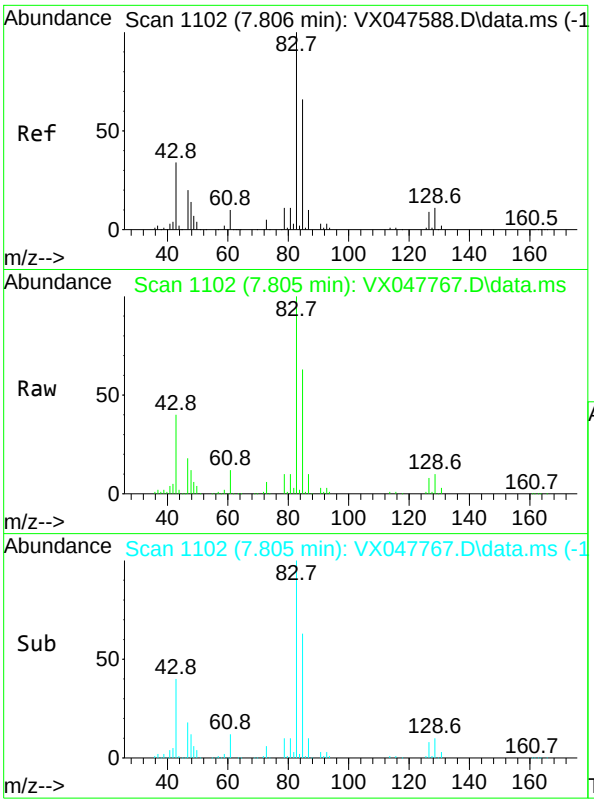


#46
Dibromomethane
Concen: 52.881 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 93 Resp: 74570

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	91.5	71.6	107.4

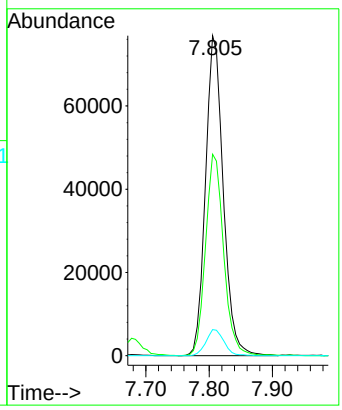




#47
Bromodichloromethane
Concen: 51.676 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 15037

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.5	78.7
127	8.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
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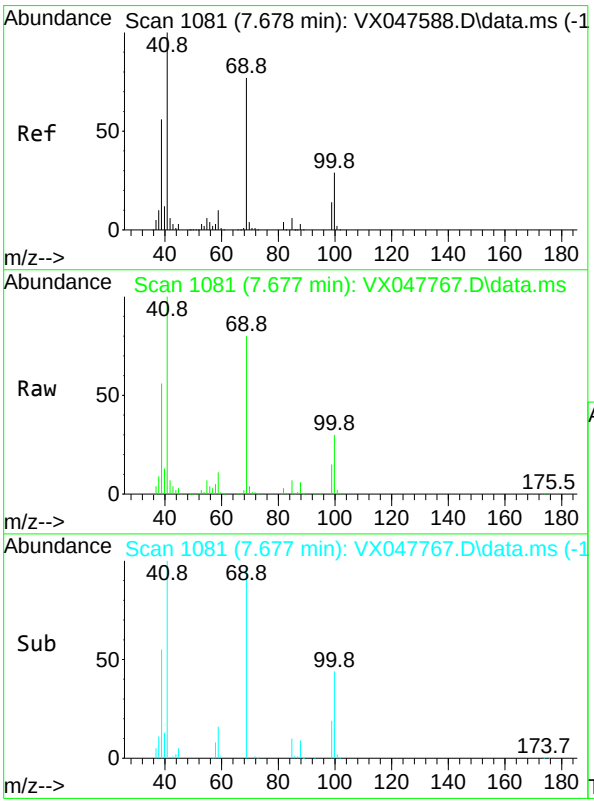
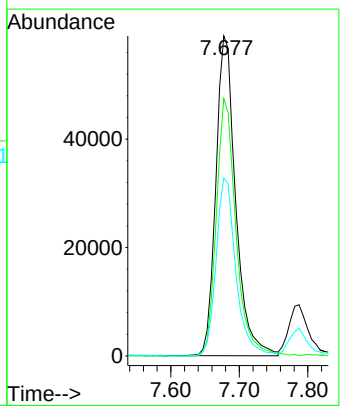
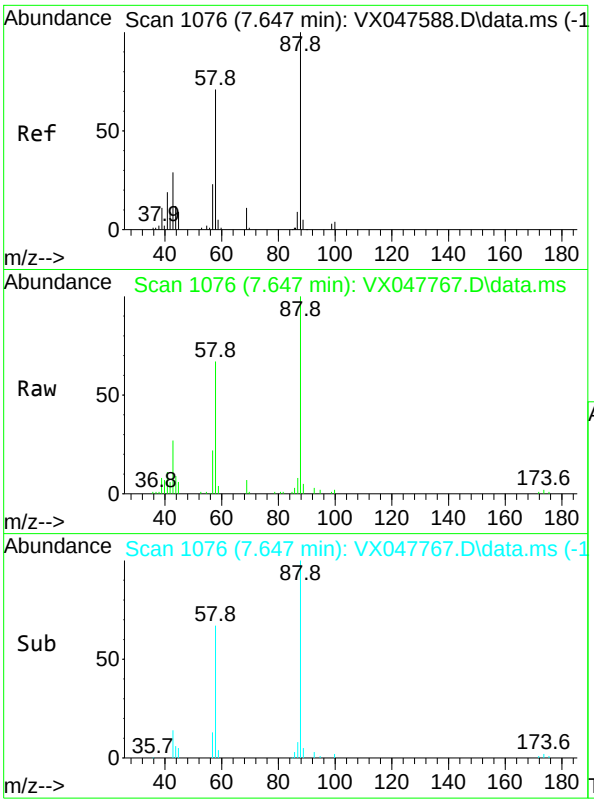


#48
Methyl methacrylate
Concen: 54.378 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 118513

Ion	Ratio	Lower	Upper
41	100		
69	79.6	61.4	92.2
39	55.7	45.8	68.6

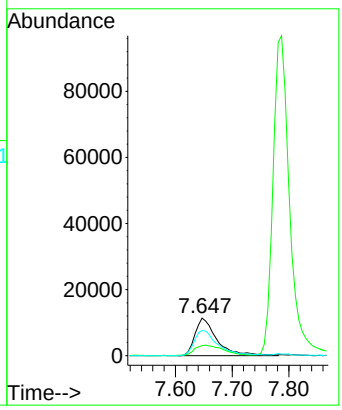




#49
1,4-Dioxane
Concen: 1379.627 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 88 Resp: 3038

Ion	Ratio	Lower	Upper
88	100		
43	37.6	30.2	45.2
58	73.0	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
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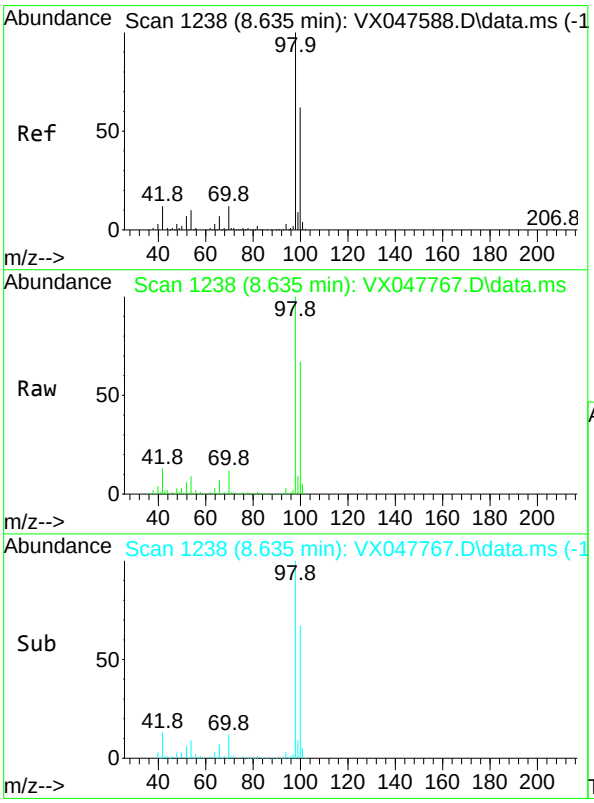
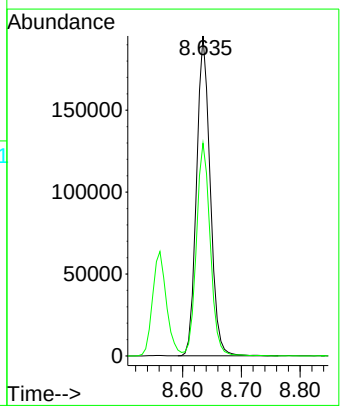
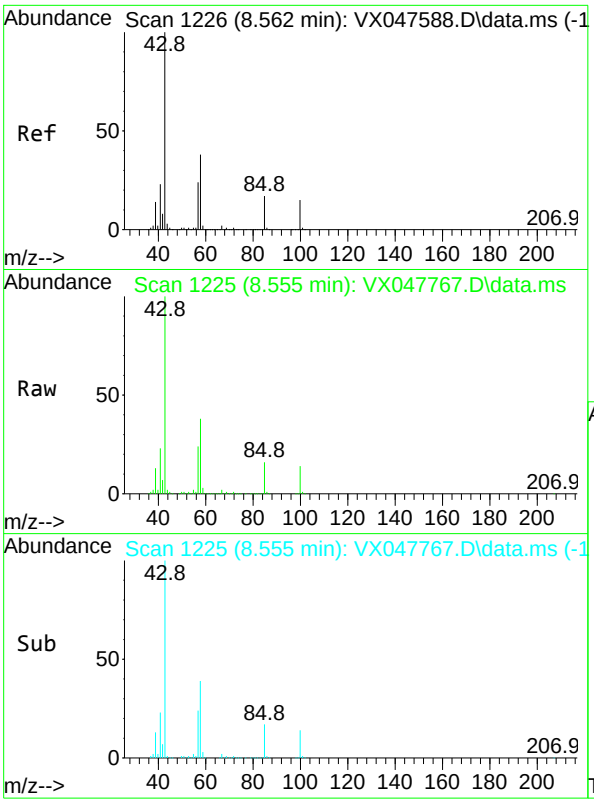


#50
Toluene-d8
Concen: 53.290 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 98 Resp: 314422

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

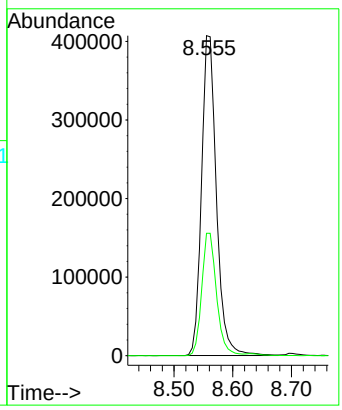




#51
4-Methyl-2-Pentanone
Concen: 296.207 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 71857

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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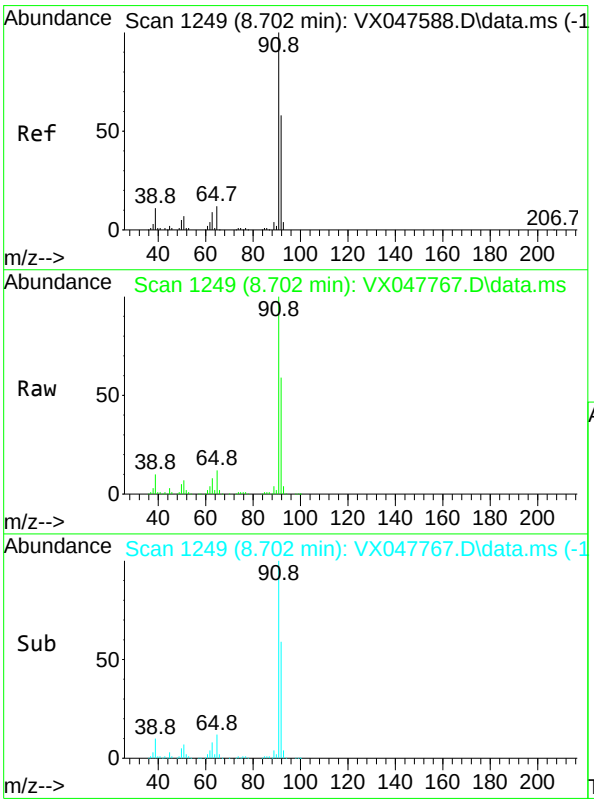
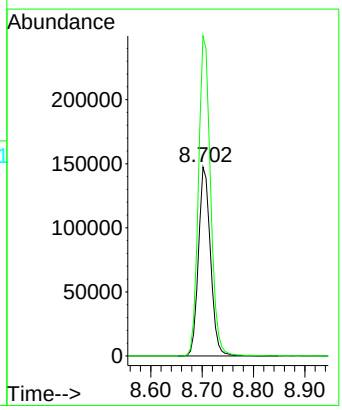
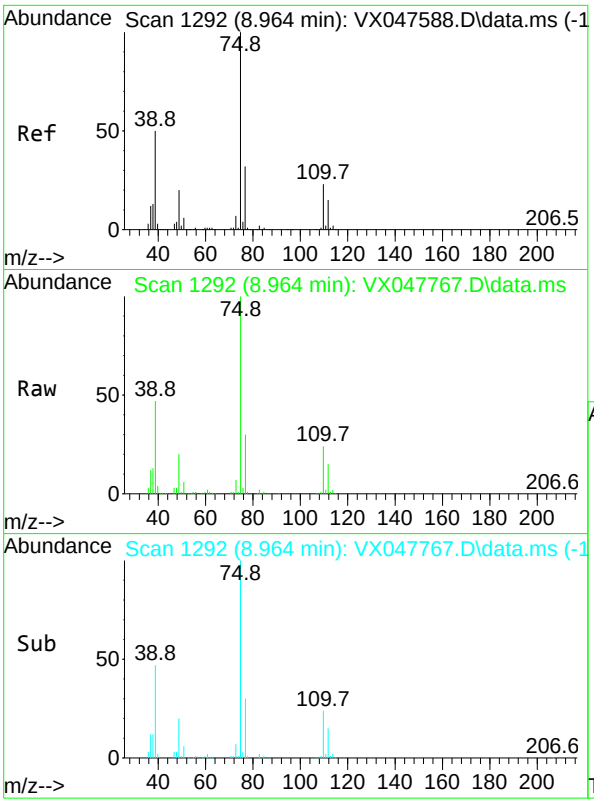


#52
Toluene
Concen: 51.397 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 92 Resp: 239637

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7

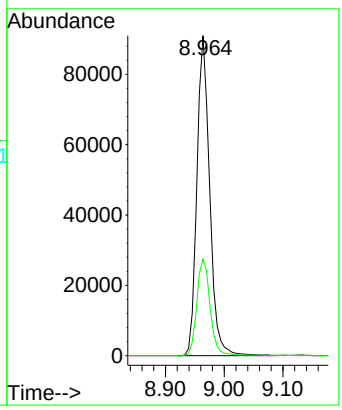




#53
t-1,3-Dichloropropene
Concen: 46.292 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 13740

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
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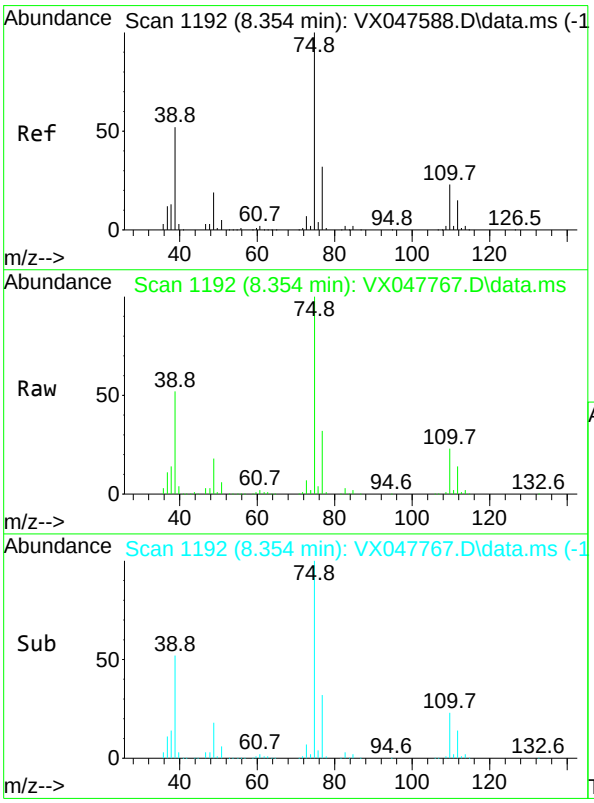
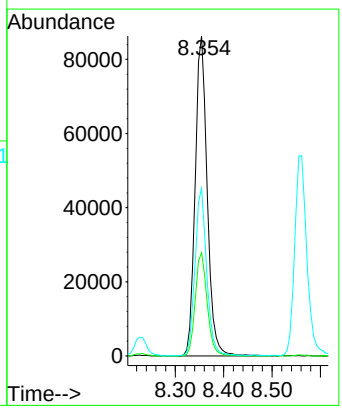
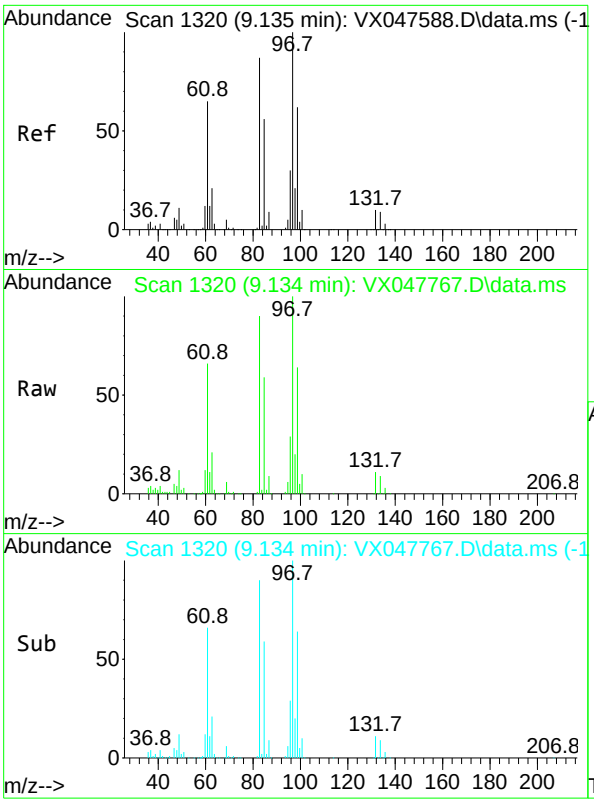


#54
cis-1,3-Dichloropropene
Concen: 47.013 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 149149

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	51.7	41.4	62.2

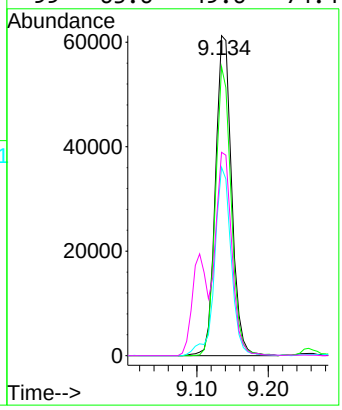




#55
1,1,2-Trichloroethane
Concen: 53.607 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 97 Resp: 9637

Ion	Ratio	Lower	Upper
97	100		
83	90.2	69.6	104.4
85	58.8	45.0	67.6
99	63.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
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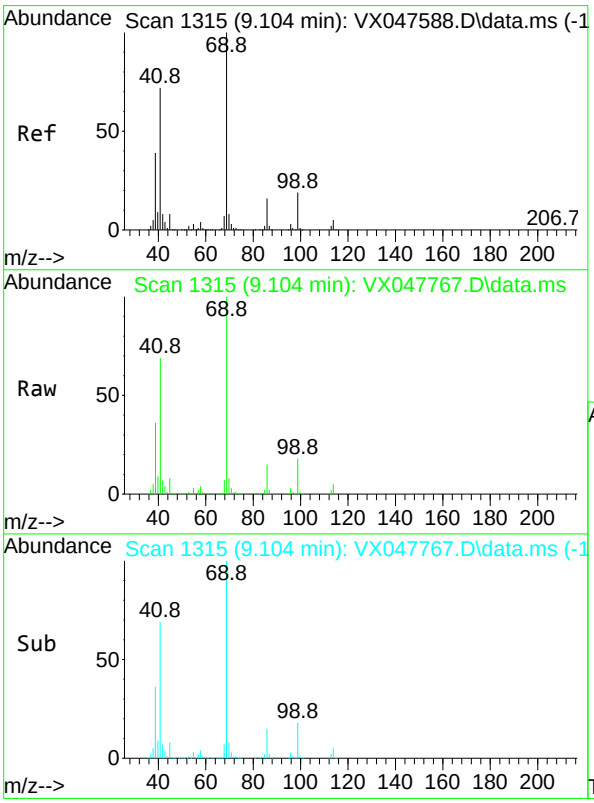
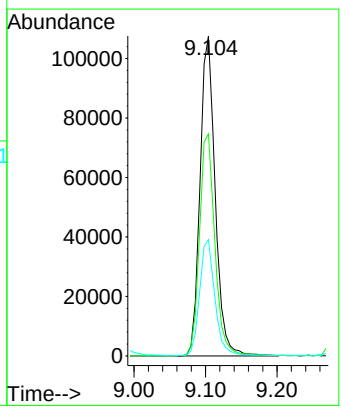
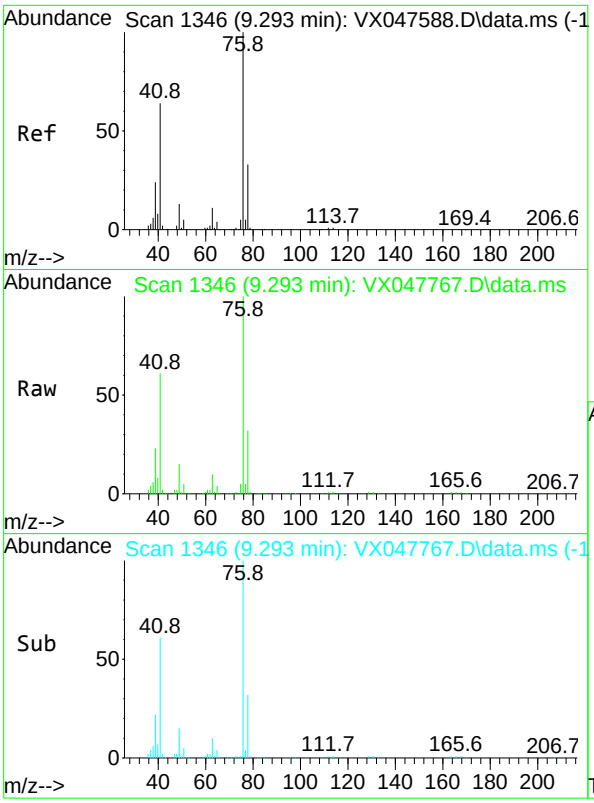


#56
Ethyl methacrylate
Concen: 56.087 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 69 Resp: 158357

Ion	Ratio	Lower	Upper
69	100		
41	70.4	58.6	87.8
39	37.1	31.5	47.3

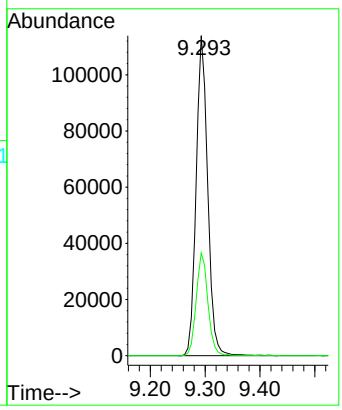




#57
1,3-Dichloropropane
Concen: 54.213 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 76 Resp: 16742

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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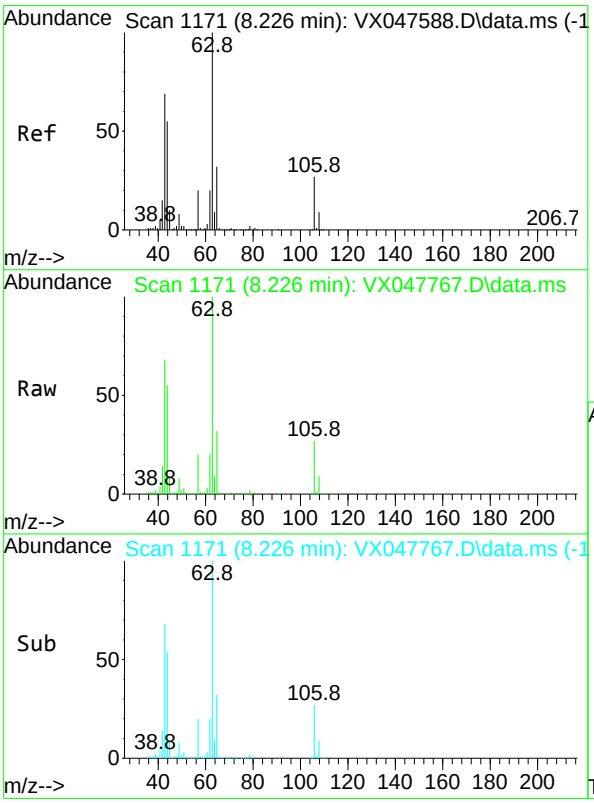
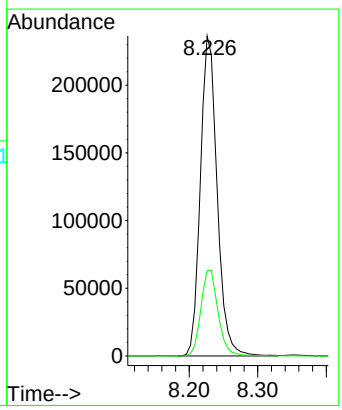
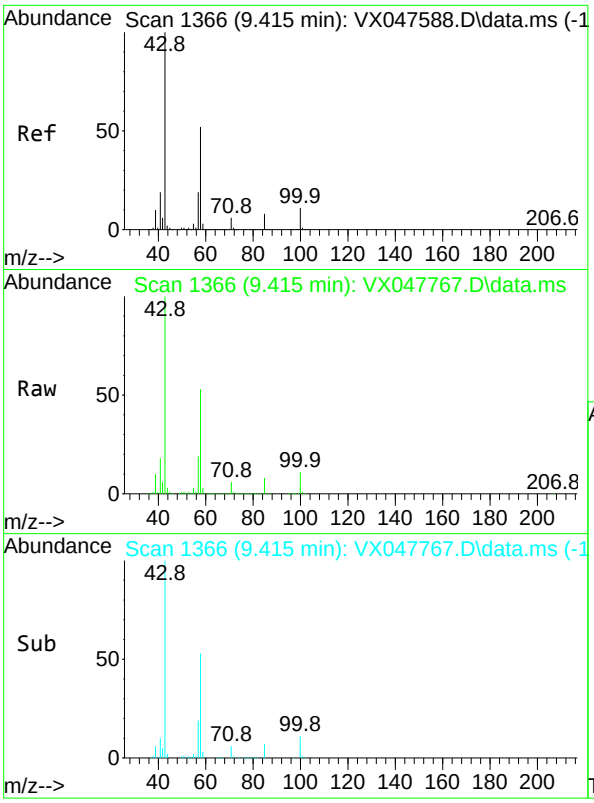


#58
2-Chloroethyl Vinyl ether
Concen: 294.817 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 402380

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9

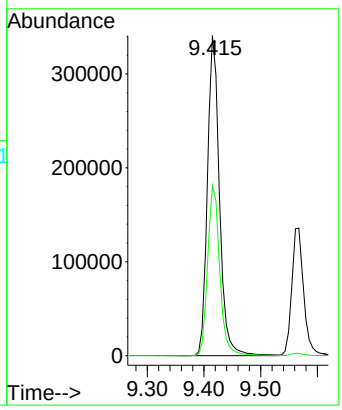




#59
2-Hexanone
Concen: 288.900 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 50335

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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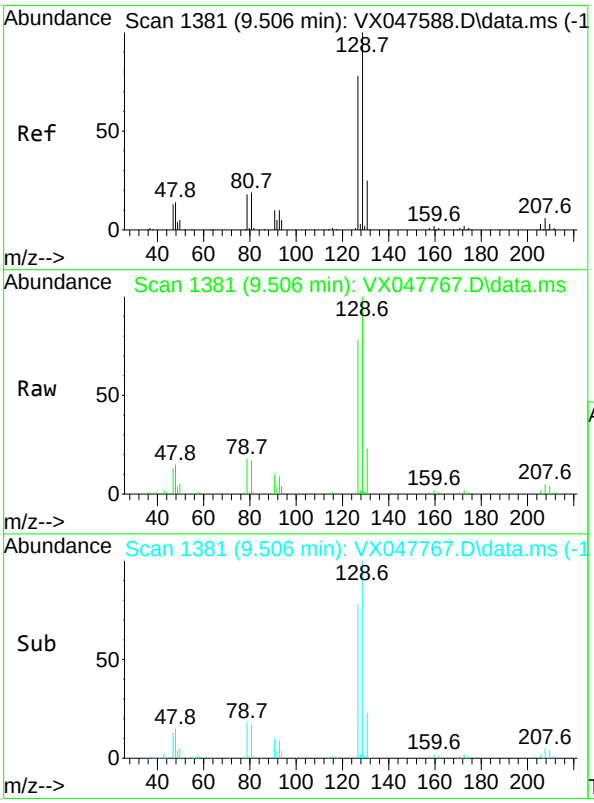
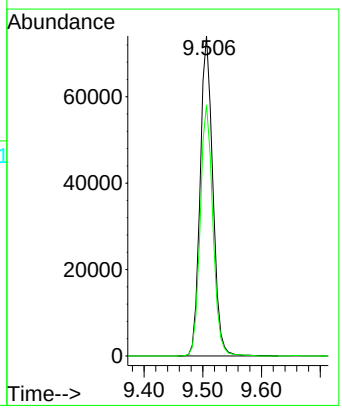
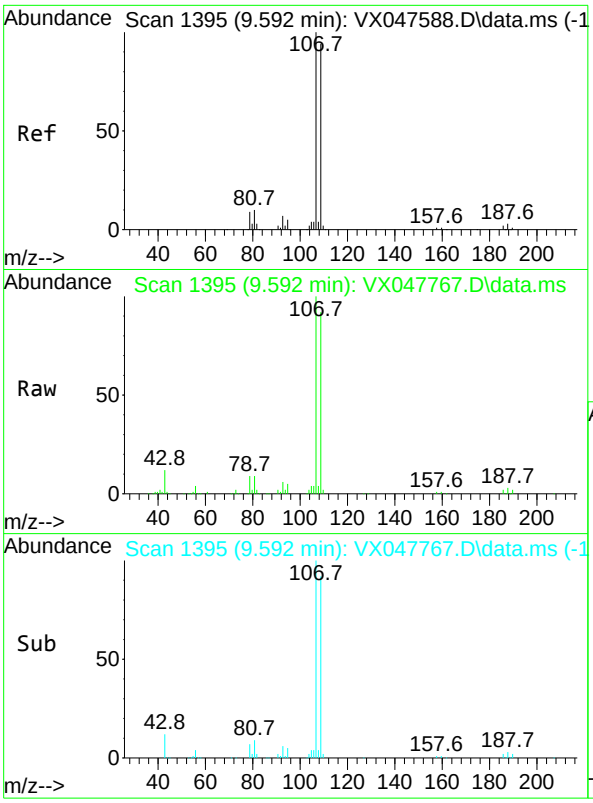


#60
Dibromochloromethane
Concen: 53.612 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:129 Resp: 111057

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.4	115.2

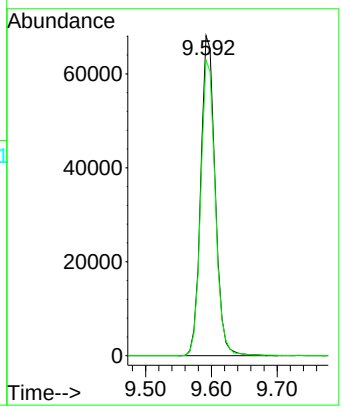




#61
1,2-Dibromoethane
Concen: 56.360 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:107 Resp: 10320

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.3	112.9



Instrument :
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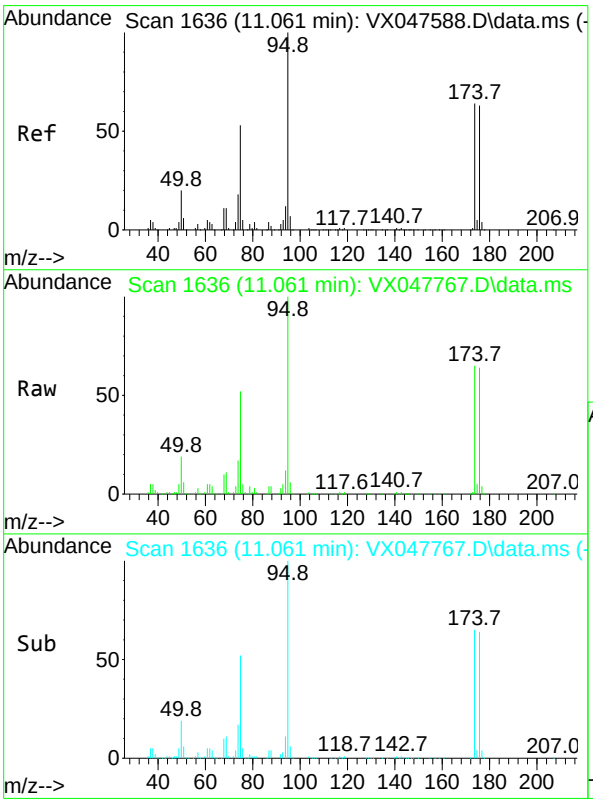
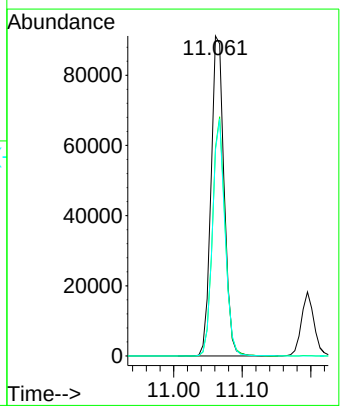
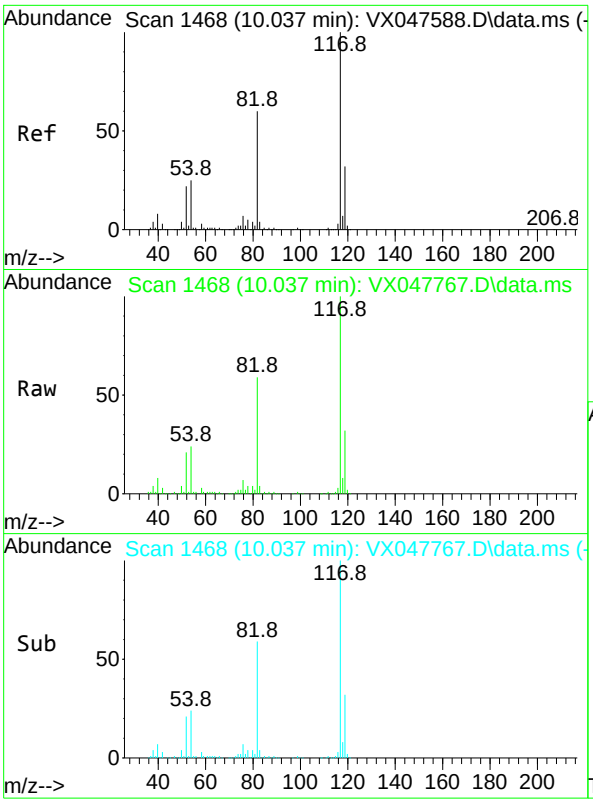


#62
4-Bromofluorobenzene
Concen: 53.949 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 95 Resp: 120804

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.6
176	70.6	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:117 Resp: 23200

Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.8	71.6
119	31.5	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
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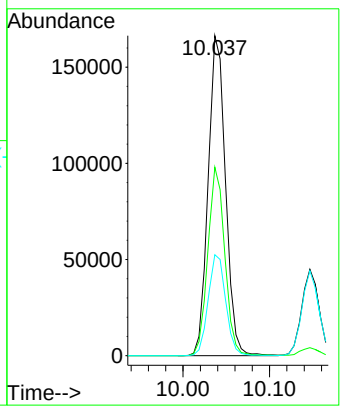
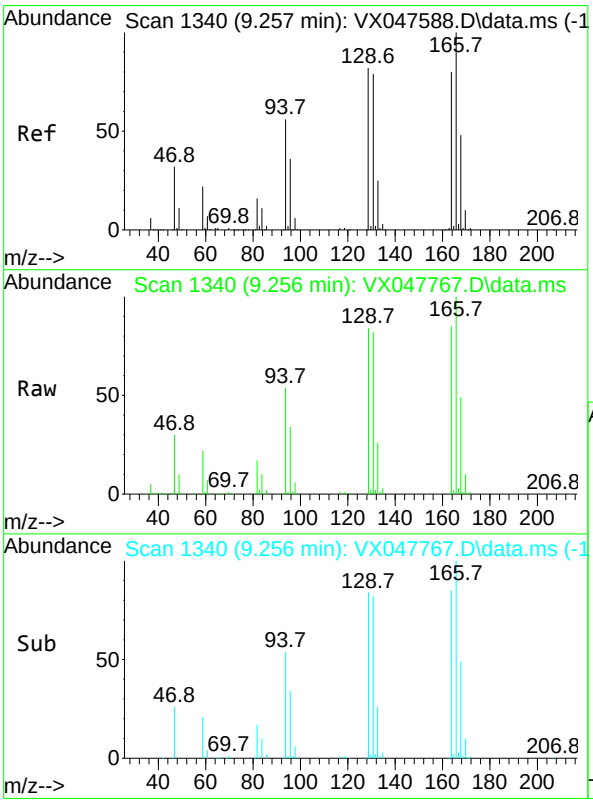
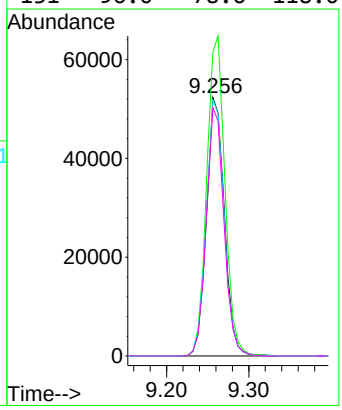


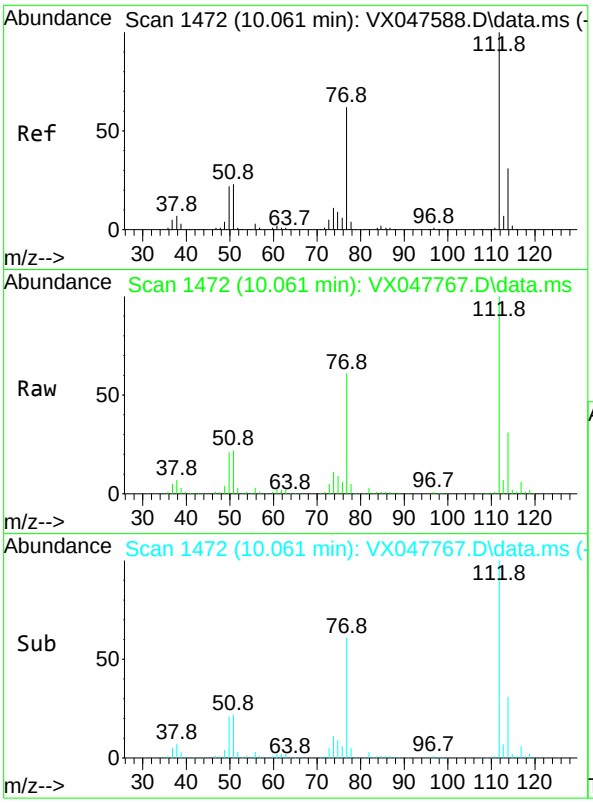


#64
Tetrachloroethene
Concen: 52.130 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:164 Resp: 78844

Ion	Ratio	Lower	Upper
164	100		
166	117.7	100.2	150.2
129	99.0	81.8	122.6
131	96.0	78.6	118.0

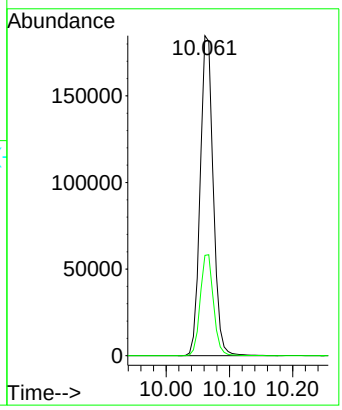




#65
Chlorobenzene
Concen: 50.402 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:112 Resp: 26565

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
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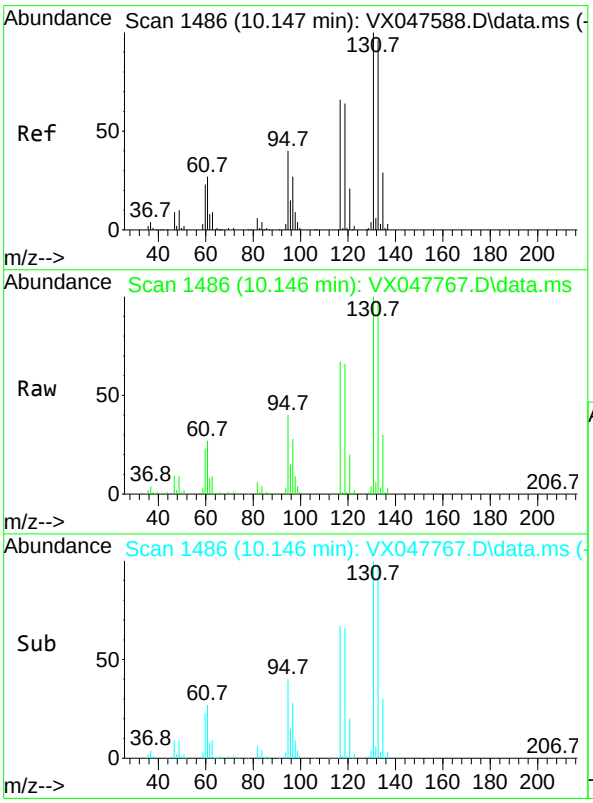
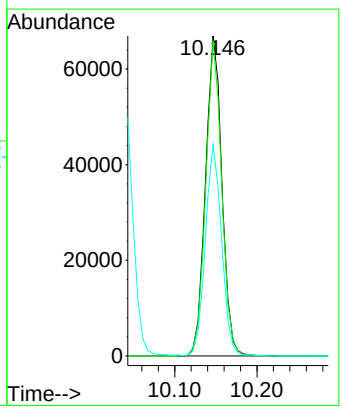
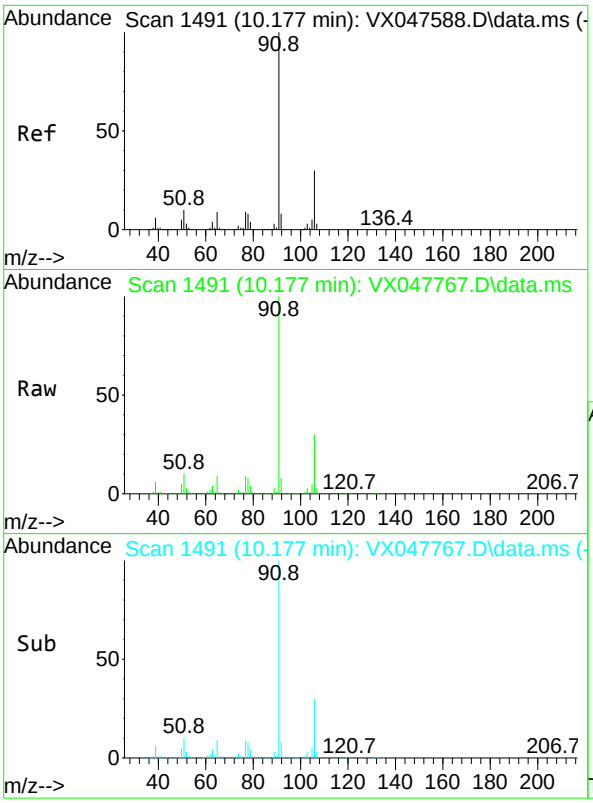


#66
1,1,1,2-Tetrachloroethane
Concen: 51.137 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:131 Resp: 93007

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	142.0
119	65.6	32.0	96.0

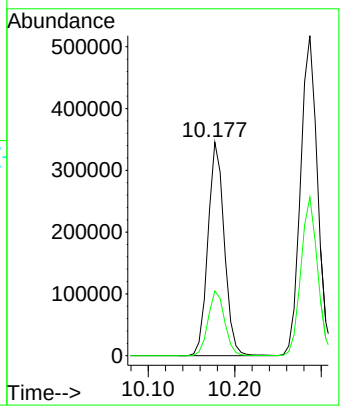




#67
Ethyl Benzene
Concen: 49.712 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 45209

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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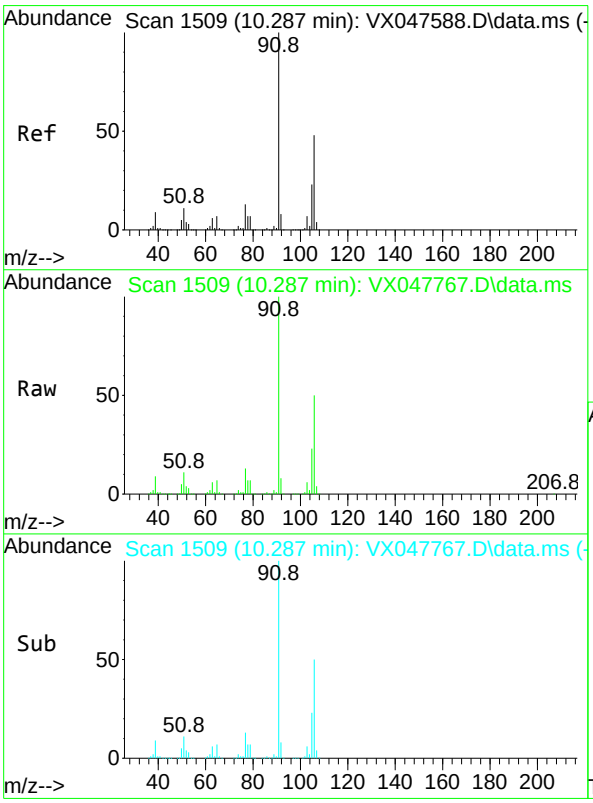
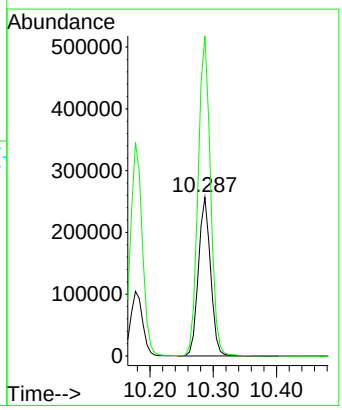
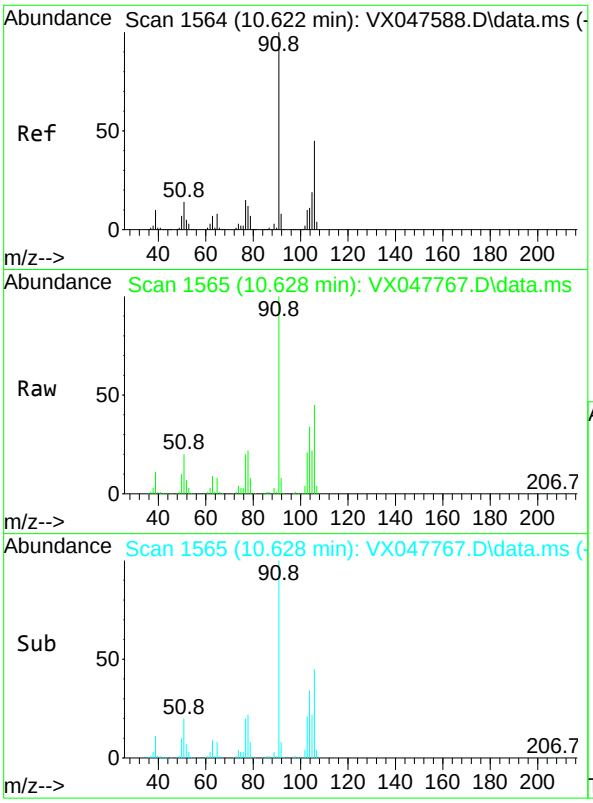


#68
m/p-Xylenes
Concen: 101.520 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:106 Resp: 343642

Ion	Ratio	Lower	Upper
106	100		
91	205.6	167.8	251.8

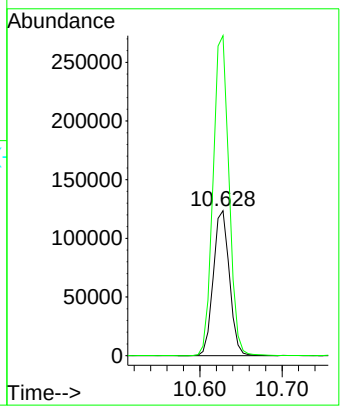




#69
o-Xylene
Concen: 51.290 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:106 Resp: 16792

Ion	Ratio	Lower	Upper
106	100		
91	219.1	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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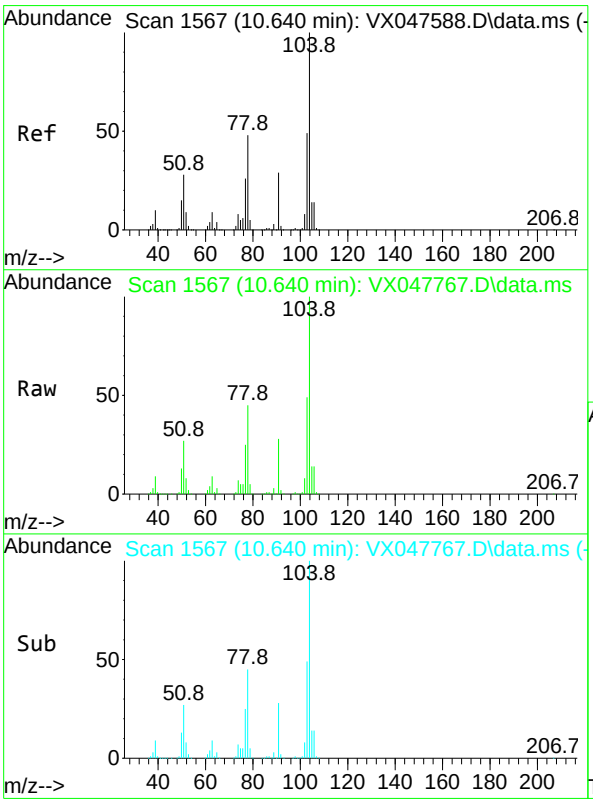
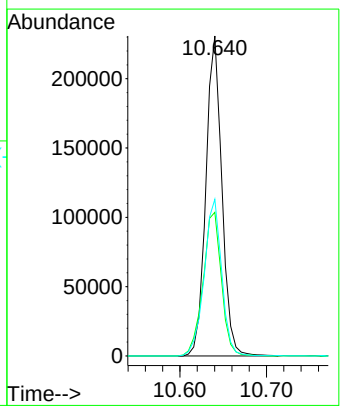
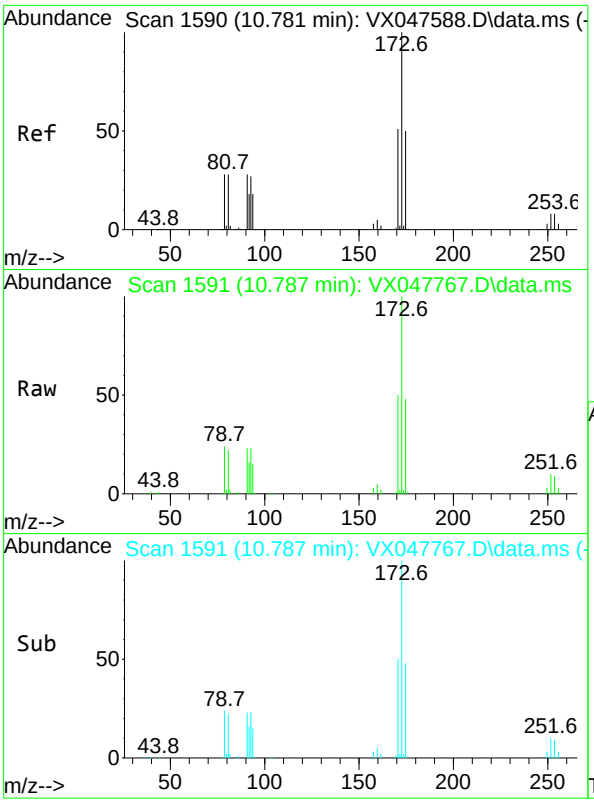


#70
Styrene
Concen: 51.662 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:104 Resp: 296373

Ion	Ratio	Lower	Upper
104	100		
78	51.6	43.1	64.7
103	53.6	43.1	64.7

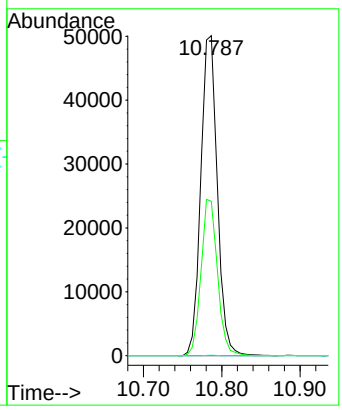




#71
Bromoform
Concen: 53.967 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:173 Resp: 7329

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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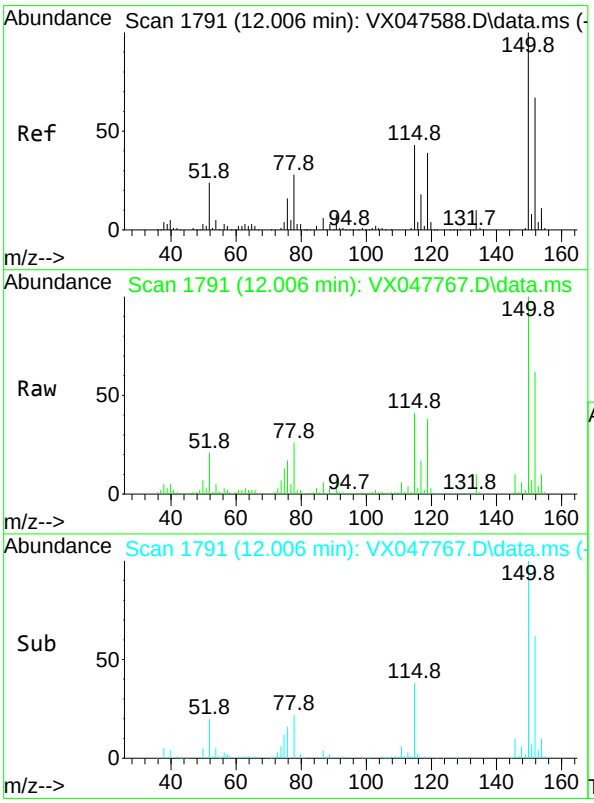
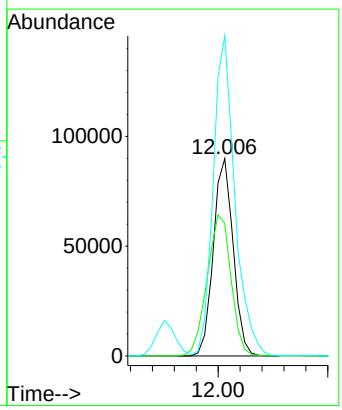
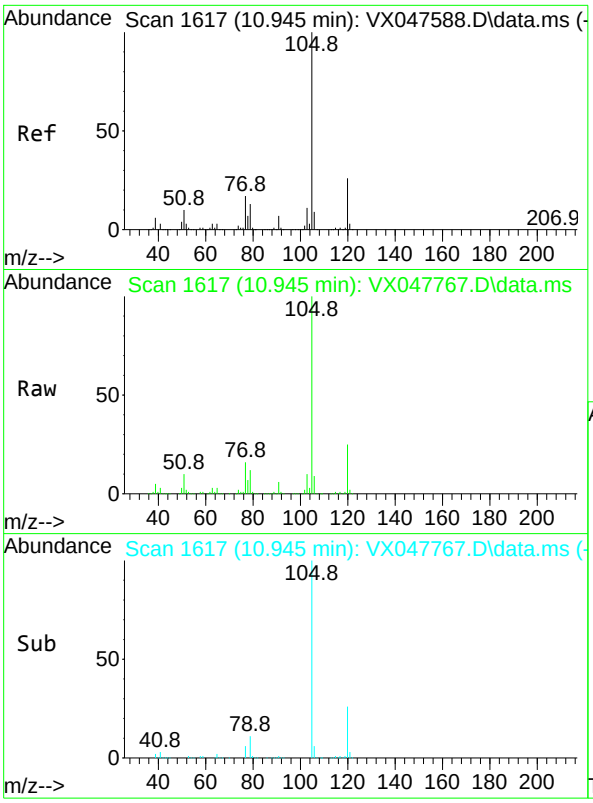


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:152 Resp: 113030

Ion	Ratio	Lower	Upper
152	100		
115	86.3	44.9	134.5
150	177.1	0.0	352.0

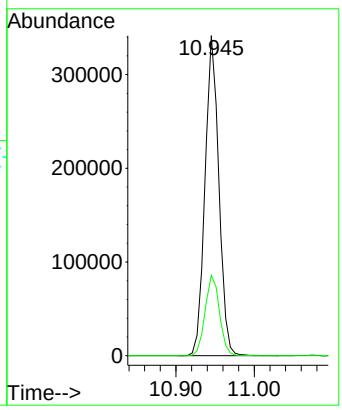




#73
Isopropylbenzene
Concen: 48.594 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 41758

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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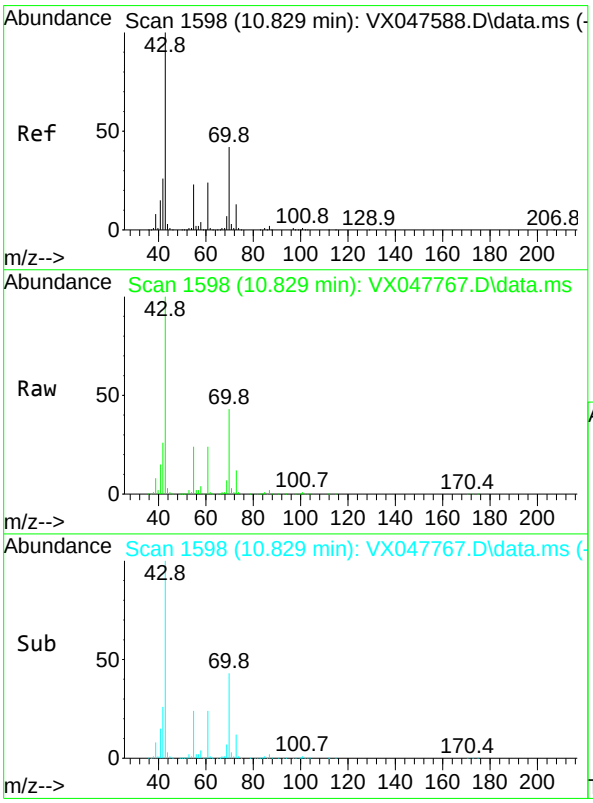
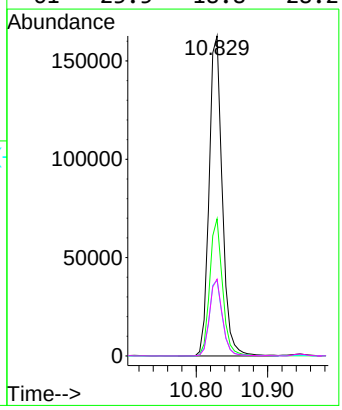
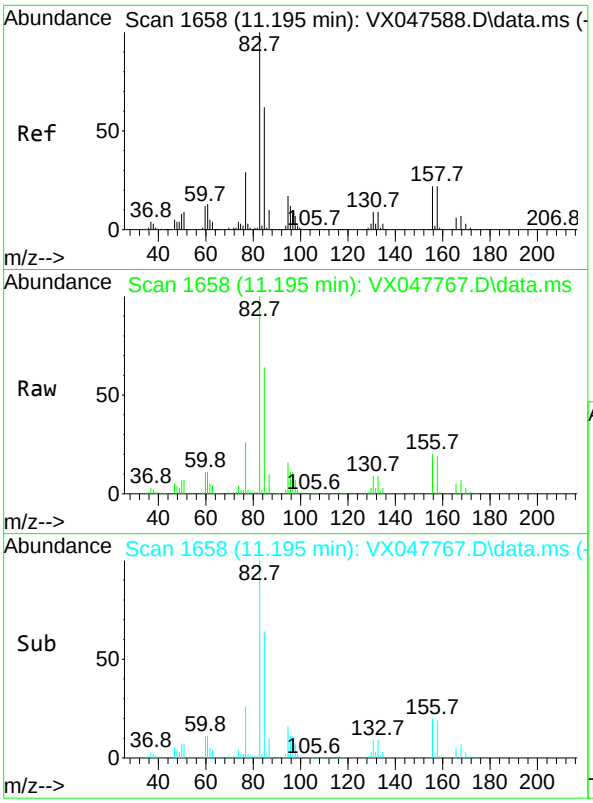


#74
N-amyl acetate
Concen: 53.032 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 207812

Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.0	48.0
55	23.5	18.9	28.3
61	23.5	18.8	28.2

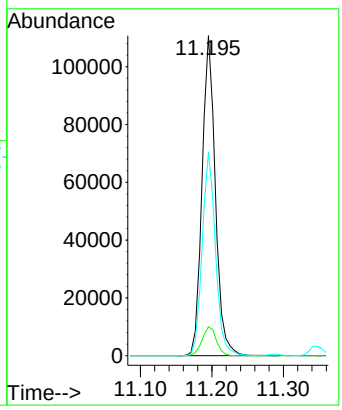




#75
1,1,2,2-Tetrachloroethane
Concen: 54.960 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 14288

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	63.7	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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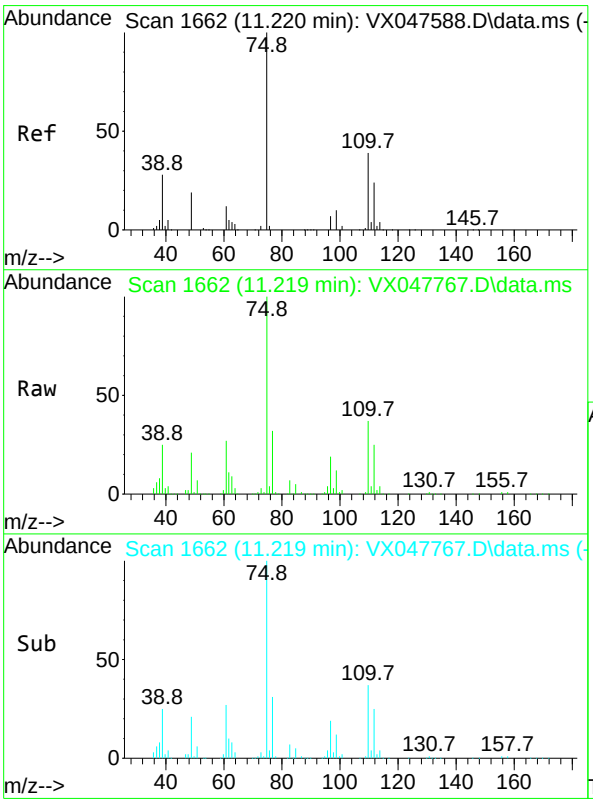
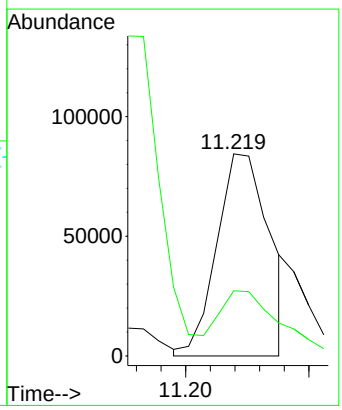
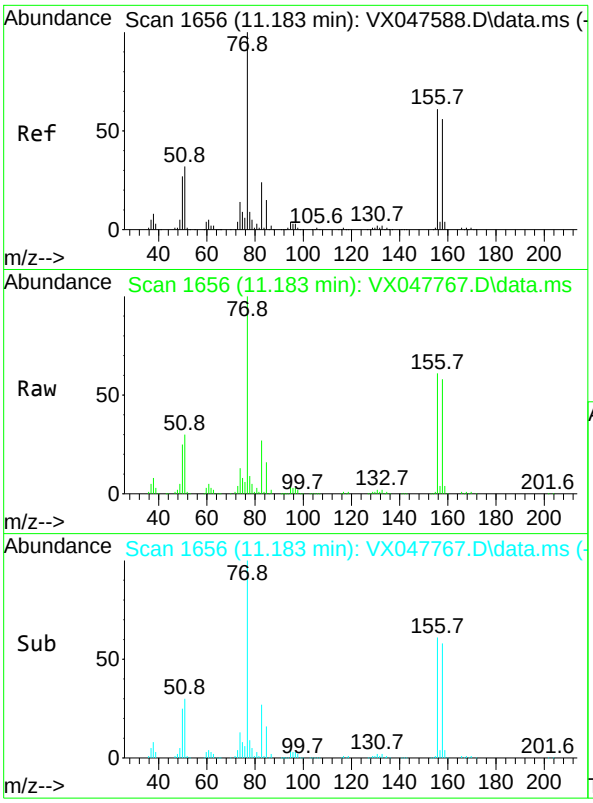


#76
1,2,3-Trichloropropane
Concen: 54.514 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 124755

Ion	Ratio	Lower	Upper
75	100		
77	37.1	18.8	56.4

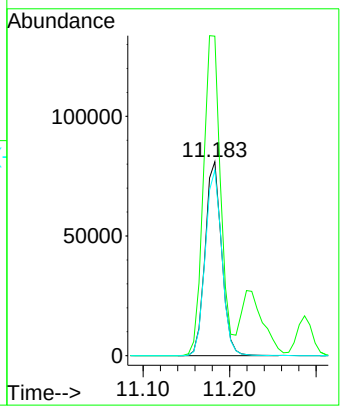




#77
Bromobenzene
Concen: 50.657 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:156 Resp: 10721

Ion	Ratio	Lower	Upper
156	100		
77	173.5	89.7	269.1
158	96.2	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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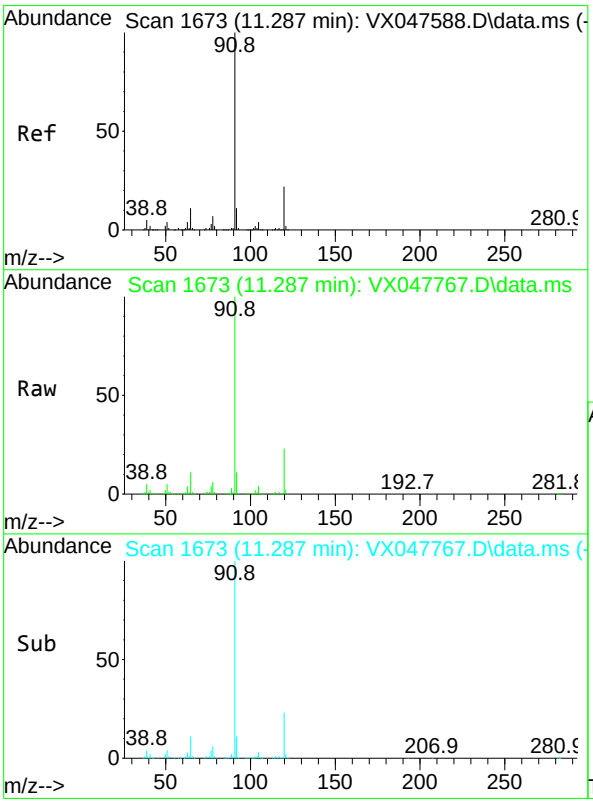
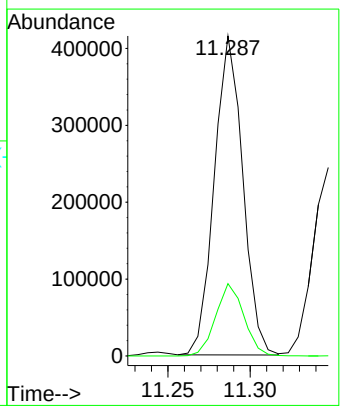
Supervised By :Mahesh Dadoda 09/26/2025

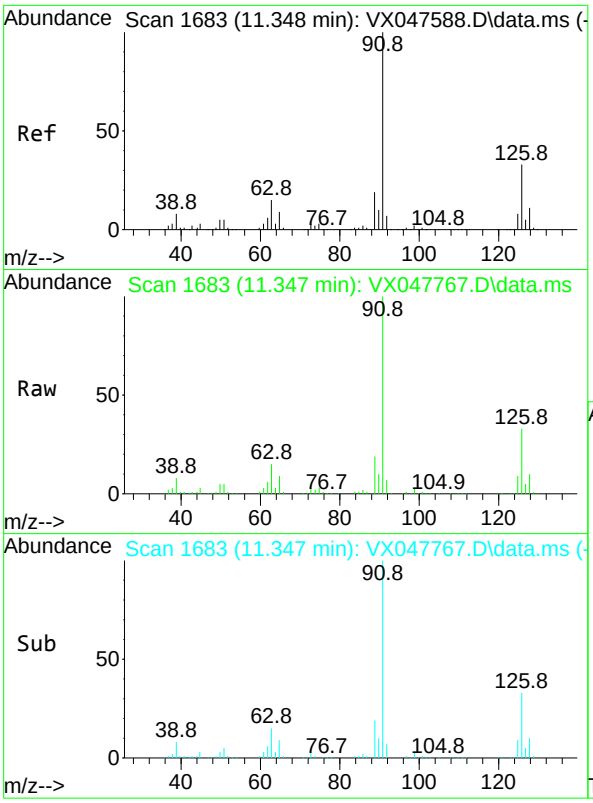


#78
n-propylbenzene
Concen: 49.095 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 498719

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1





#79
2-Chlorotoluene
Concen: 49.006 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 30490

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
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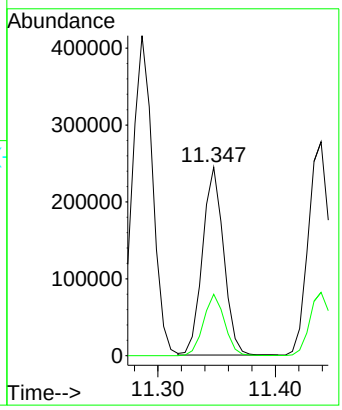
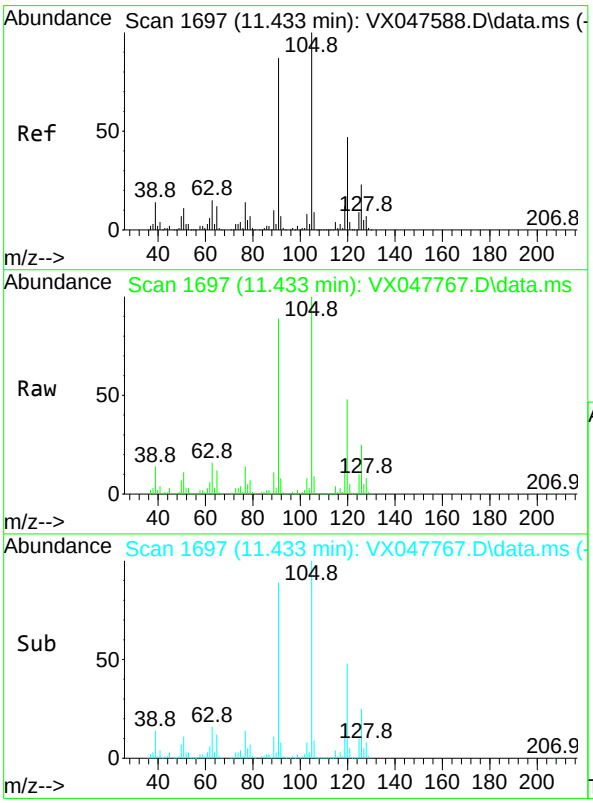
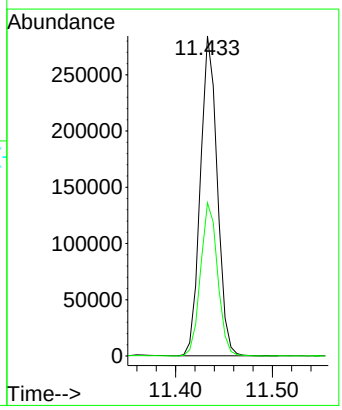


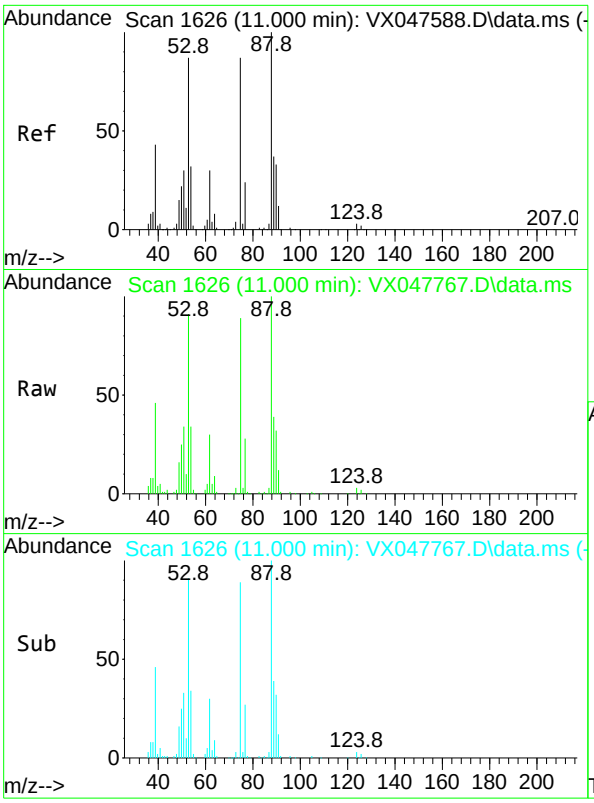


#80
1,3,5-Trimethylbenzene
Concen: 49.006 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 345988

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.6	70.8

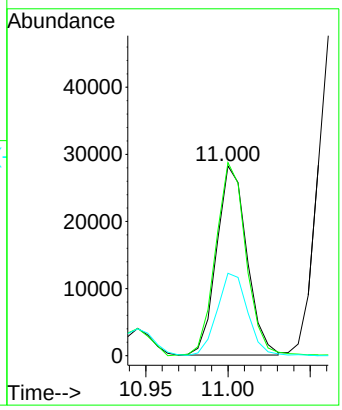




#81
trans-1,4-Dichloro-2-butene
Concen: 40.018 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 3591

Ion	Ratio	Lower	Upper
75	100		
53	102.9	83.4	125.2
89	44.3	36.3	54.5



Instrument :
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ClientSampleId :
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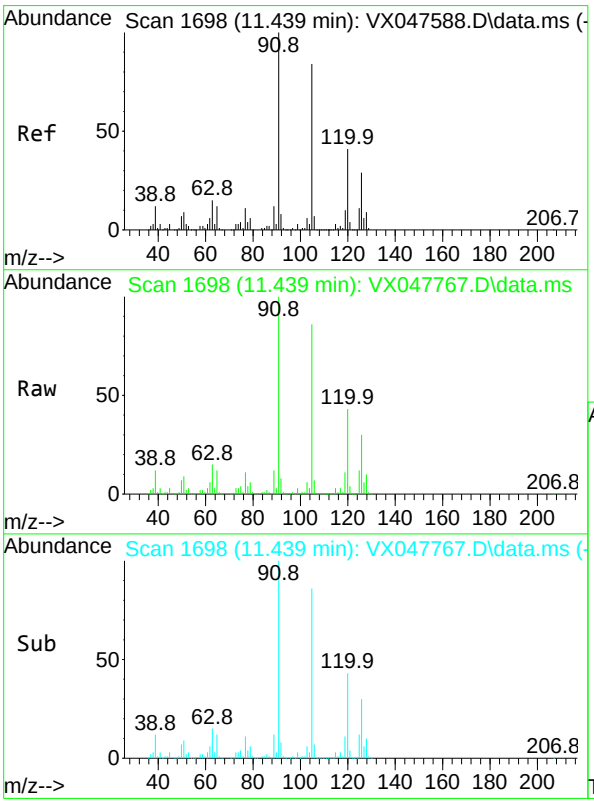
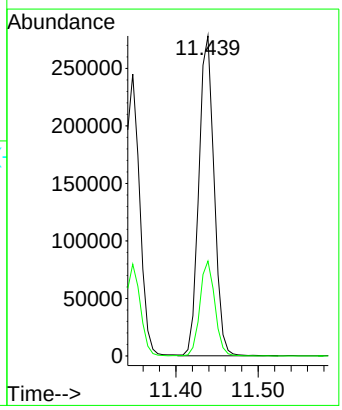
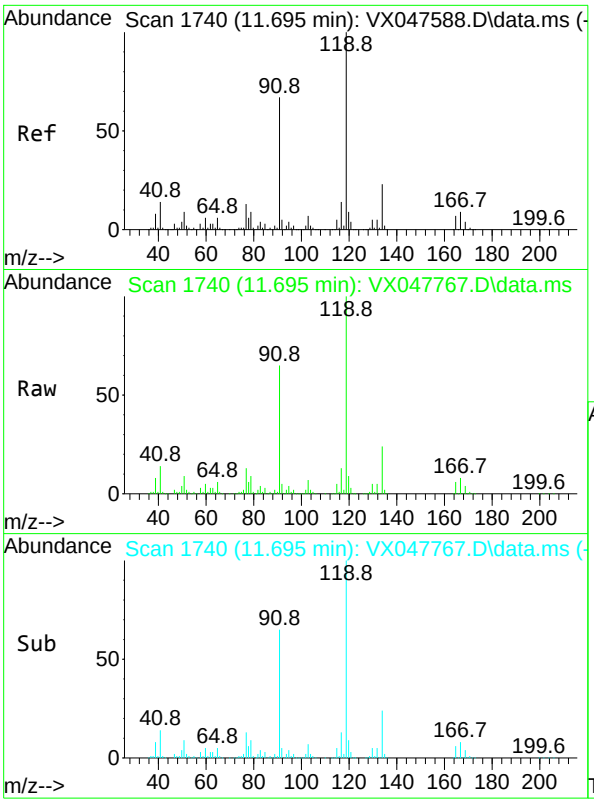


#82
4-Chlorotoluene
Concen: 48.683 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 357733

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6

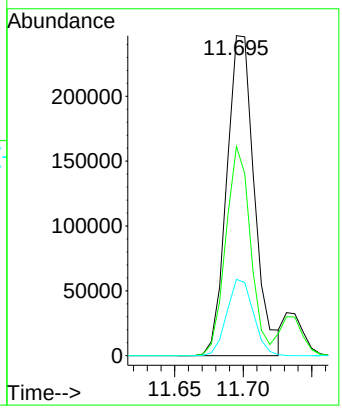




#83
tert-Butylbenzene
Concen: 47.879 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:119 Resp: 34603

Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.6	88.8
134	22.9	11.0	33.0



Instrument :
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ClientSampleId :
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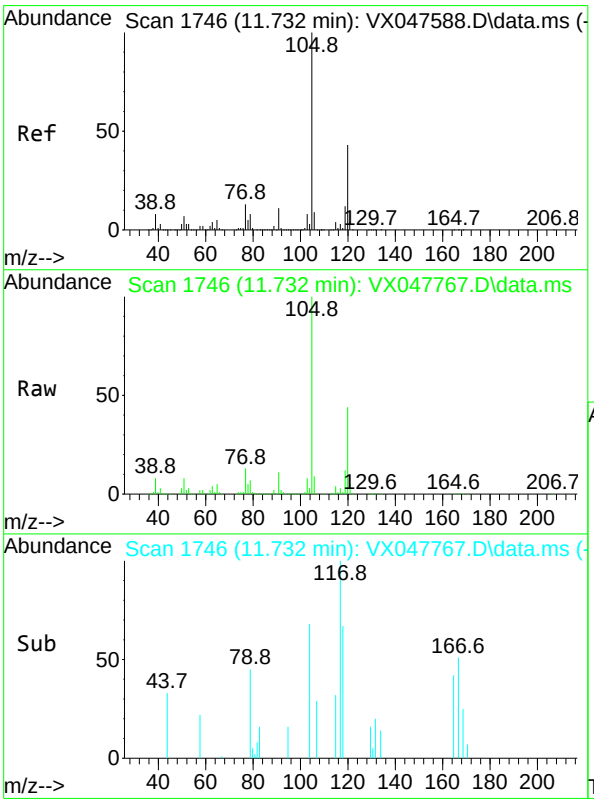
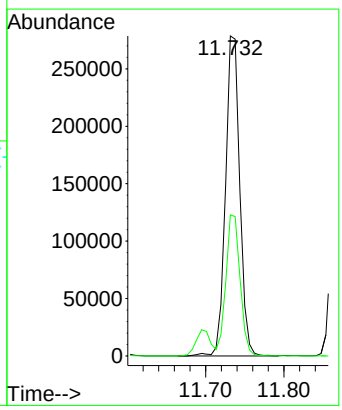
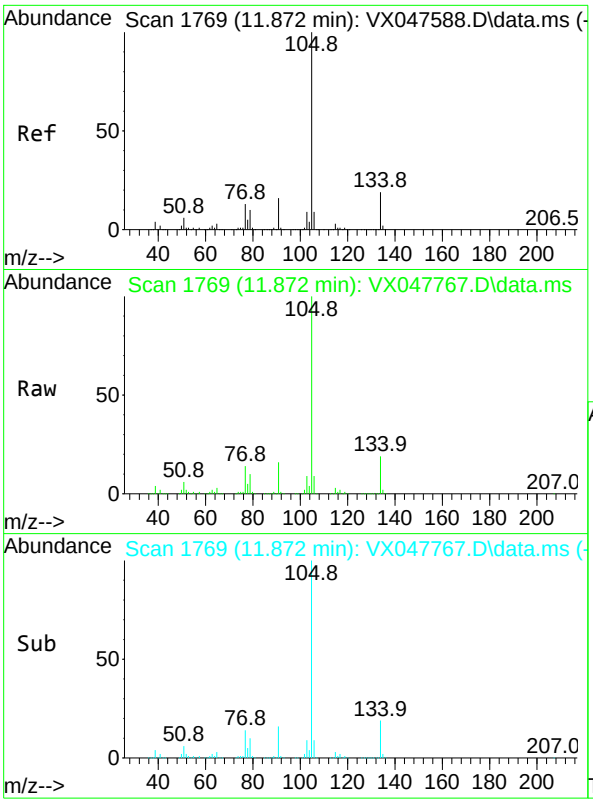


#84
1,2,4-Trimethylbenzene
Concen: 49.355 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 353276

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1

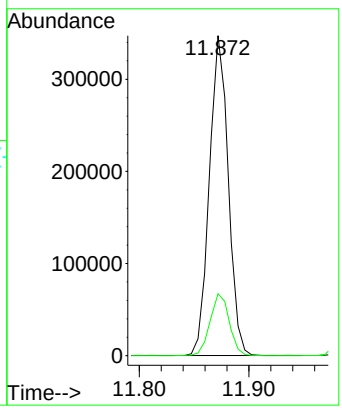




#85
sec-Butylbenzene
Concen: 48.459 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 41599

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



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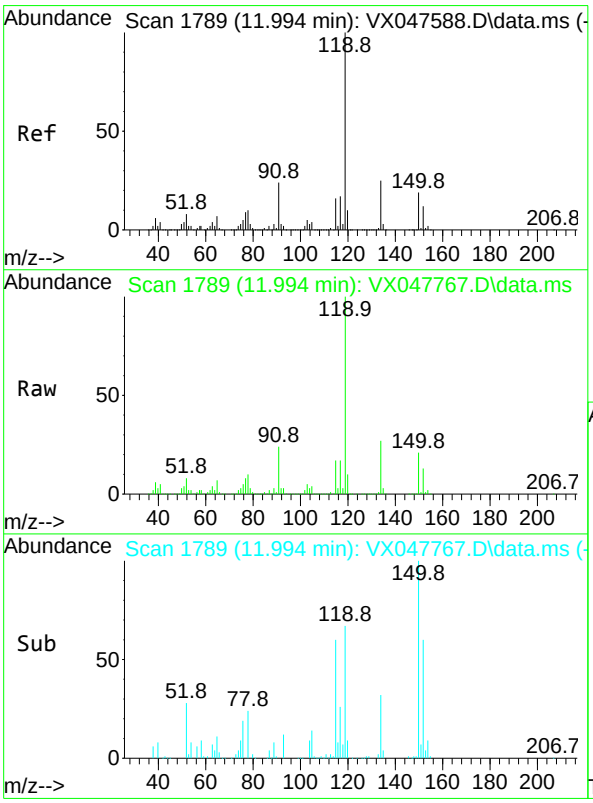
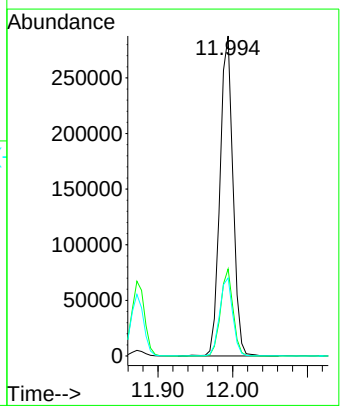
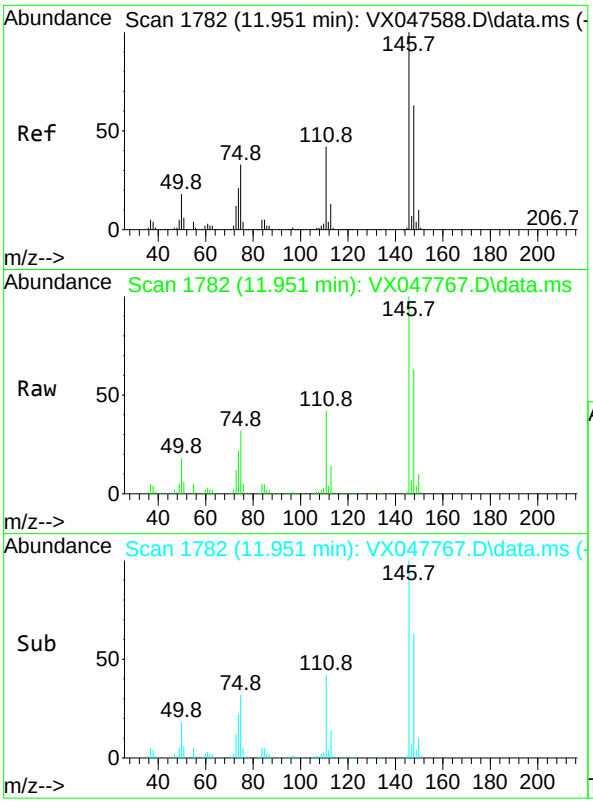


#86
p-Isopropyltoluene
Concen: 47.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:119 Resp: 348647

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	24.6	12.6	37.6

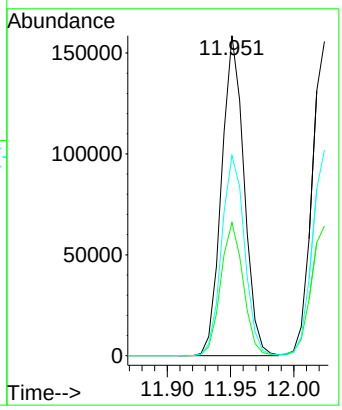




#87
1,3-Dichlorobenzene
Concen: 49.790 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:146 Resp: 19573

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.5	64.5
148	63.8	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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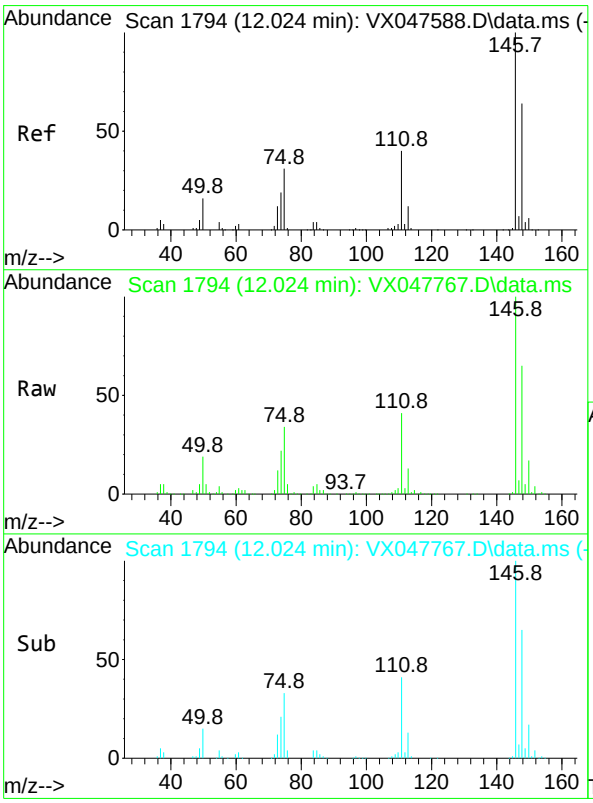
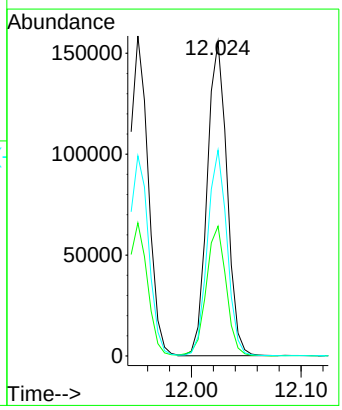
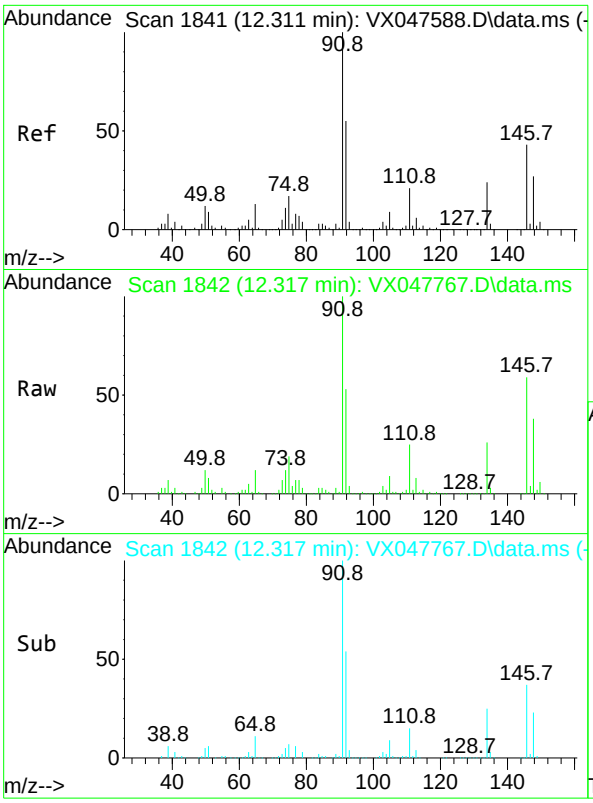


#88
1,4-Dichlorobenzene
Concen: 48.435 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:146 Resp: 195422

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	64.8	31.7	95.1

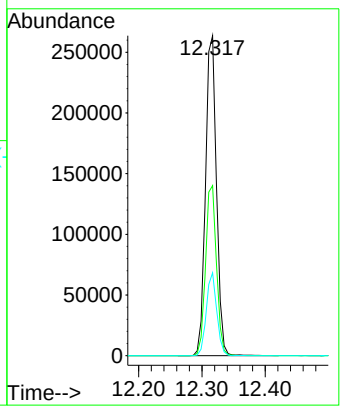




#89
n-Butylbenzene
Concen: 47.254 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 31777

Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.6	82.7
134	24.7	12.6	37.8



Instrument :
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ClientSampleId :
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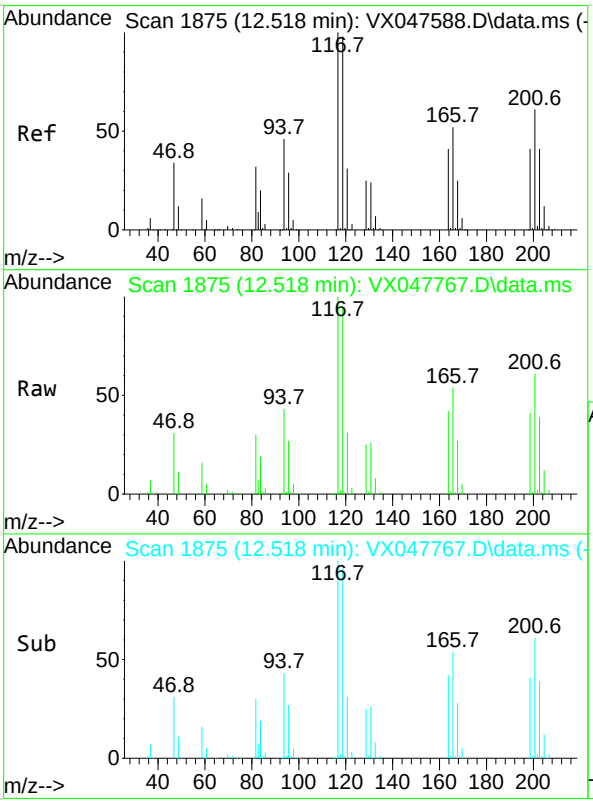
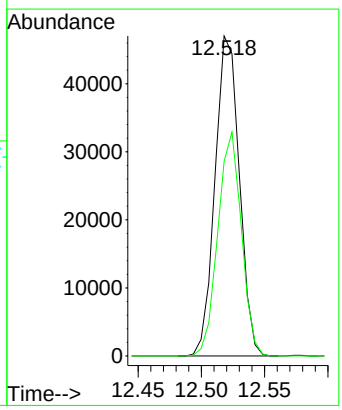
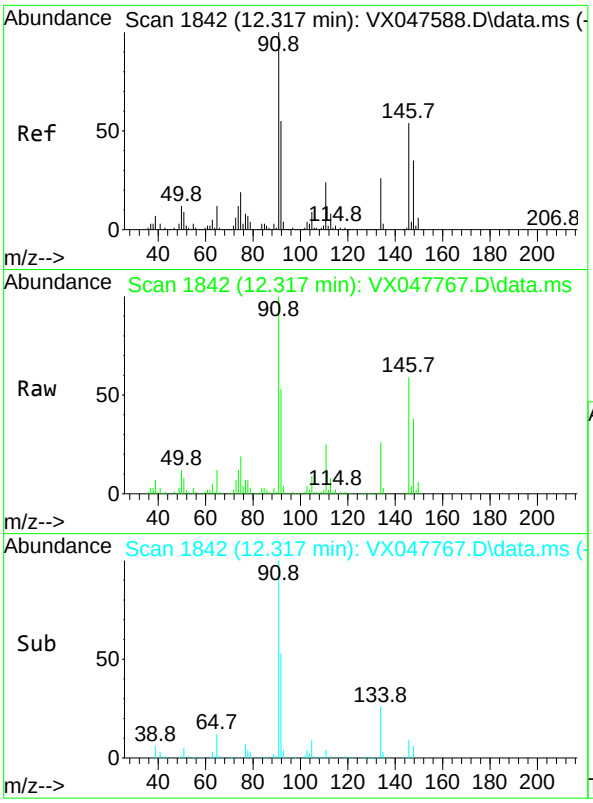


#90
Hexachloroethane
Concen: 49.203 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:117 Resp: 62783

Ion	Ratio	Lower	Upper
117	100		
201	67.8	34.2	102.5

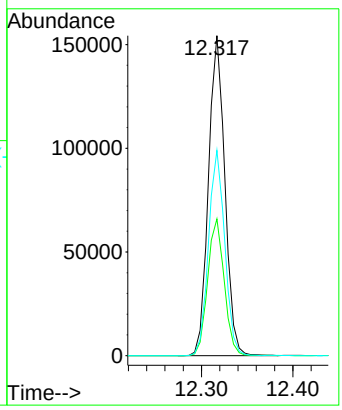




#91
1,2-Dichlorobenzene
Concen: 51.187 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:146 Resp: 19170

Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.2	66.6
148	63.5	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
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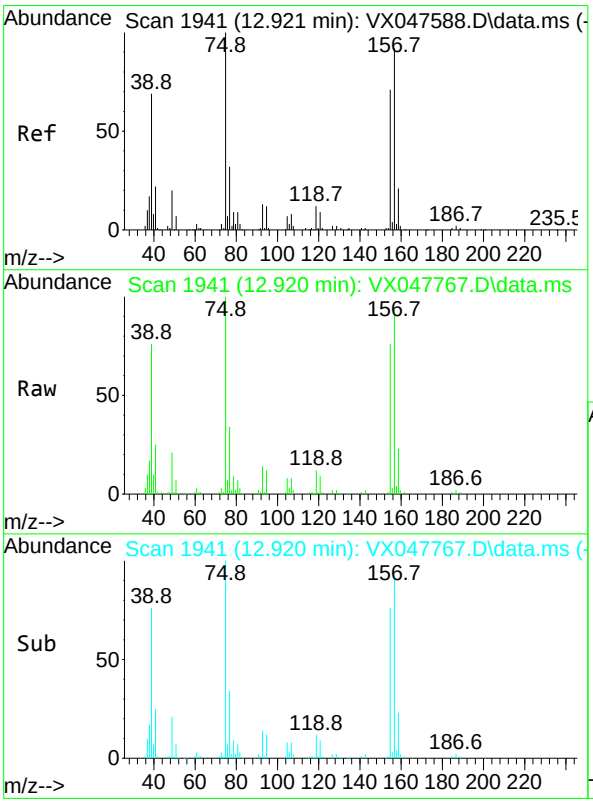
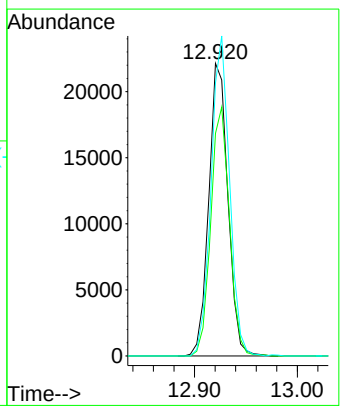
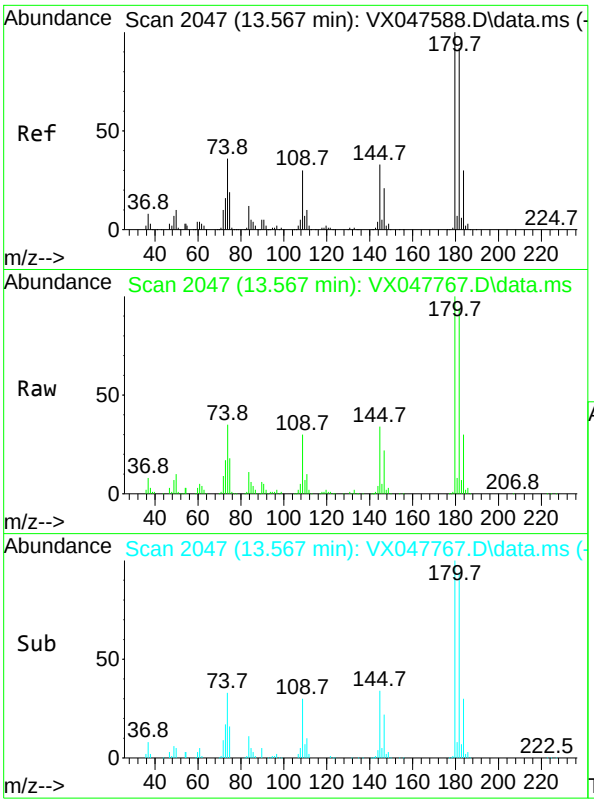


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.516 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 28696

Ion	Ratio	Lower	Upper
75	100		
155	82.5	37.7	113.1
157	105.1	49.8	149.4





#93
1,2,4-Trichlorobenzene
Concen: 49.199 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:180 Resp: 11975

Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.6	139.8
145	32.5	16.4	49.1

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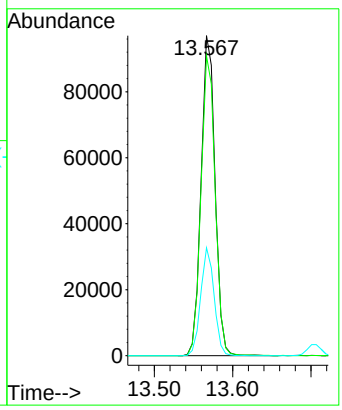
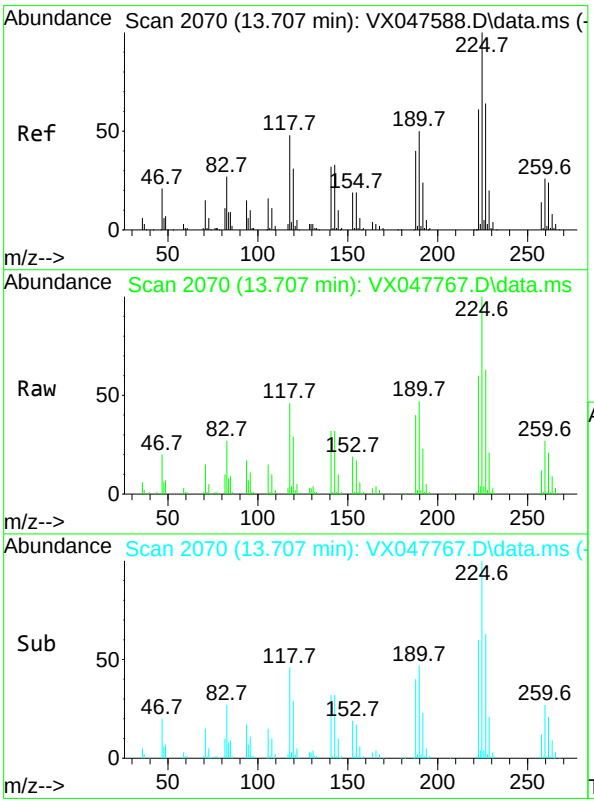
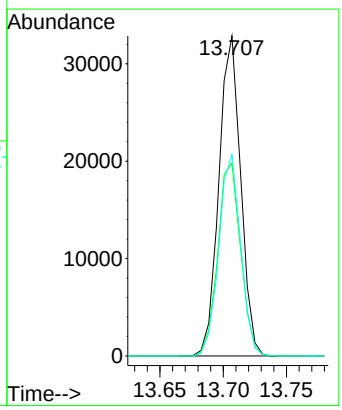


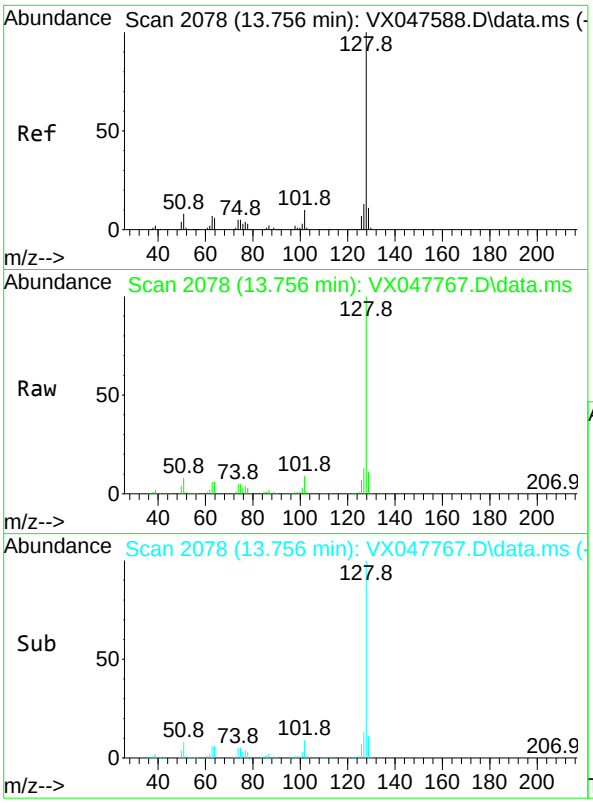


#94
Hexachlorobutadiene
Concen: 47.499 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:225 Resp: 39271

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.7	95.1
227	62.9	32.0	96.0

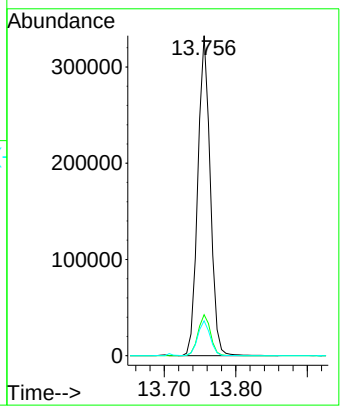




#95
Naphthalene
Concen: 54.002 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:128 Resp: 40025

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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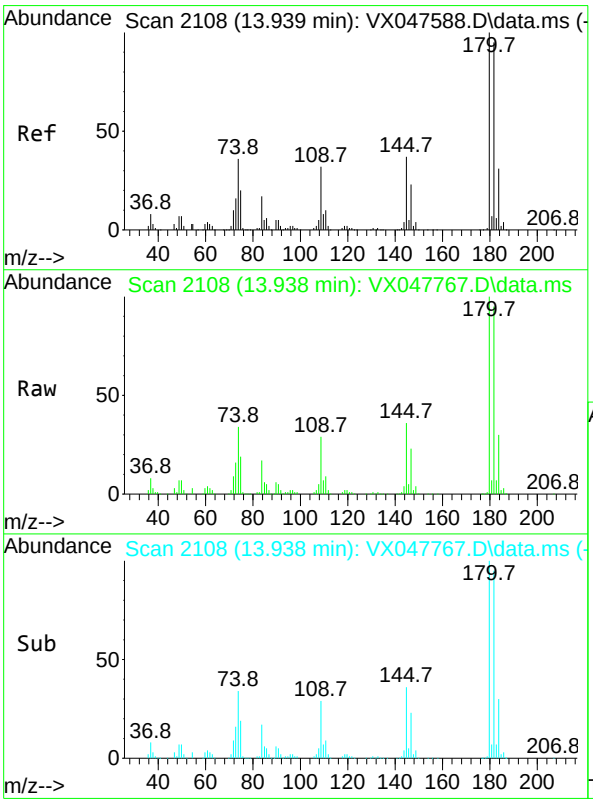
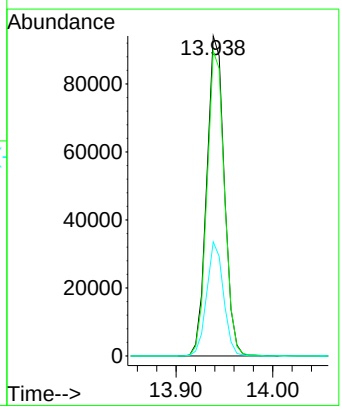
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.369 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:180 Resp: 118573

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.6	142.8
145	34.2	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	79	0.00
2	T	Dichlorodifluoromethane	0.518	0.593	-14.5	93	0.00
3	P	Chloromethane	0.680	0.735	-8.1	87	0.00
4	C	Vinyl Chloride	0.666	0.726	-9.0#	86	0.00
5	T	Bromomethane	0.422	0.463	-9.7	86	0.00
6	T	Chloroethane	0.445	0.466	-4.7	83	0.00
7	T	Trichlorofluoromethane	0.989	1.013	-2.4	80	0.00
8	T	Diethyl Ether	0.405	0.439	-8.4	84	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.586	-1.4	79	0.00
10	T	Methyl Iodide	0.902	0.916	-1.6	79	0.00
11	T	Tert butyl alcohol	0.089	0.097	-9.0	85	0.00
12	CM	1,1-Dichloroethene	0.594	0.631	-6.2#	82	0.00
13	T	Acrolein	0.082	0.091	-11.0	88	0.00
14	T	Allyl chloride	1.226	1.177	4.0	76	0.00
15	T	Acrylonitrile	0.328	0.403	-22.9	91	0.00
16	T	Acetone	0.346	0.323	6.6	80	0.00
17	T	Carbon Disulfide	1.626	1.720	-5.8	86	0.00
18	T	Methyl Acetate	0.770	0.940	-22.1	84	0.00
19	T	Methyl tert-butyl Ether	2.169	2.352	-8.4	82	0.00
20	T	Methylene Chloride	0.732	0.779	-6.4	84	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.685	-7.0	83	0.00
22	T	Diisopropyl ether	2.376	2.573	-8.3	82	0.00
23	T	Vinyl Acetate	1.901	2.117	-11.4	84	0.00
24	P	1,1-Dichloroethane	1.263	1.341	-6.2	81	0.00
25	T	2-Butanone	0.432	0.500	-15.7	89	0.00
26	T	2,2-Dichloropropane	1.050	0.514	51.0#	38#	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.835	-6.6	81	0.00
28	T	Bromochloromethane	0.551	0.591	-7.3	81	0.00
29	T	Tetrahydrofuran	0.260	0.324	-24.6	92	0.00
30	C	Chloroform	1.276	1.376	-7.8#	82	0.00
31	T	Cyclohexane	1.052	1.066	-1.3	81	0.00
32	T	1,1,1-Trichloroethane	1.082	1.134	-4.8	79	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.866	-8.8	88	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	83	0.00
35	S	Dibromofluoromethane	0.335	0.362	-8.1	91	0.00
36	T	1,1-Dichloropropene	0.490	0.475	3.1	81	0.00
37	T	Ethyl Acetate	0.525	0.586	-11.6	91	0.00
38	T	Carbon Tetrachloride	0.532	0.515	3.2	79	0.00
39	T	Methylcyclohexane	0.556	0.525	5.6	77	0.00
40	TM	Benzene	1.488	1.534	-3.1	83	0.00
41	T	Methacrylonitrile	0.271	0.307	-13.3	89	0.00
42	TM	1,2-Dichloroethane	0.566	0.562	0.7	80	0.00
43	T	Isopropyl Acetate	0.860	0.928	-7.9	86	0.00
44	TM	Trichloroethene	0.360	0.371	-3.1	83	0.00
45	C	1,2-Dichloropropane	0.381	0.401	-5.2#	84	0.00
46	T	Dibromomethane	0.277	0.293	-5.8	84	0.00
47	T	Bromodichloromethane	0.572	0.591	-3.3	81	0.00
48	T	Methyl methacrylate	0.429	0.466	-8.6	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.006	-50.0#	103	0.00
50	S	Toluene-d8	1.160	1.237	-6.6	89	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.565	-18.4	92	0.00
52	CM	Toluene	0.917	0.943	-2.8#	83	0.00
53	T	t-1,3-Dichloropropene	0.584	0.540	7.5	72	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.587	5.9	74	0.00
55	T	1,1,2-Trichloroethane	0.354	0.379	-7.1	85	0.00
56	T	Ethyl methacrylate	0.555	0.623	-12.3	86	0.00
57	T	1,3-Dichloropropane	0.607	0.659	-8.6	85	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.317	-39.6#	96	0.00
59	T	2-Hexanone	0.343	0.396	-15.5	91	0.00
60	T	Dibromochloromethane	0.407	0.437	-7.4	83	0.00
61	T	1,2-Dibromoethane	0.360	0.406	-12.8	89	0.00
62	S	4-Bromofluorobenzene	0.440	0.475	-8.0	92	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64	T	Tetrachloroethene	0.326	0.340	-4.3	89	0.00
65	PM	Chlorobenzene	1.136	1.145	-0.8	84	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.401	-2.3	83	0.00
67	C	Ethyl Benzene	1.960	1.949	0.6#	82	0.00
68	T	m/p-Xylenes	0.729	0.741	-1.6	83	0.00
69	T	o-Xylene	0.706	0.724	-2.5	83	0.00
70	T	Styrene	1.236	1.277	-3.3	85	0.00
71	P	Bromoform	0.293	0.316	-7.8	87	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
73	T	Isopropylbenzene	3.801	3.694	2.8	81	0.00
74	T	N-amyl acetate	1.733	1.839	-6.1	87	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.264	-9.9	91	0.00
76	T	1,2,3-Trichloropropane	1.012	1.104	-9.1	87	0.00
77	T	Bromobenzene	0.936	0.949	-1.4	85	0.00
78	T	n-propylbenzene	4.494	4.412	1.8	81	0.00
79	T	2-Chlorotoluene	2.752	2.698	2.0	82	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.061	2.0	81	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.318	19.9	68	0.00
82	T	4-Chlorotoluene	3.251	3.165	2.6	82	0.00
83	T	tert-Butylbenzene	3.197	3.061	4.3	81	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.126	1.3	83	0.00
85	T	sec-Butylbenzene	3.797	3.680	3.1	81	0.00
86	T	p-Isopropyltoluene	3.215	3.085	4.0	80	0.00
87	T	1,3-Dichlorobenzene	1.739	1.732	0.4	84	0.00
88	T	1,4-Dichlorobenzene	1.785	1.729	3.1	84	0.00
89	T	n-Butylbenzene	2.975	2.811	5.5	79	0.00
90	T	Hexachloroethane	0.564	0.555	1.6	83	0.00
91	T	1,2-Dichlorobenzene	1.657	1.696	-2.4	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.254	-9.0	88	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.059	1.7	81	0.00
94	T	Hexachlorobutadiene	0.366	0.347	5.2	80	0.00
95	T	Naphthalene	3.279	3.541	-8.0	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.049	-4.7	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	79	0.00
2	T	Dichlorodifluoromethane	50.000	57.267	-14.5	93	0.00
3	P	Chloromethane	50.000	53.970	-7.9	87	0.00
4	C	Vinyl Chloride	50.000	54.491	-9.0#	86	0.00
5	T	Bromomethane	50.000	54.792	-9.6	86	0.00
6	T	Chloroethane	50.000	52.368	-4.7	83	0.00
7	T	Trichlorofluoromethane	50.000	51.208	-2.4	80	0.00
8	T	Diethyl Ether	50.000	54.277	-8.6	84	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.667	-1.3	79	0.00
10	T	Methyl Iodide	50.000	50.757	-1.5	79	0.00
11	T	Tert butyl alcohol	250.000	273.139	-9.3	85	0.00
12	CM	1,1-Dichloroethene	50.000	53.075	-6.2#	82	0.00
13	T	Acrolein	250.000	278.592	-11.4	88	0.00
14	T	Allyl chloride	50.000	47.997	4.0	76	0.00
15	T	Acrylonitrile	250.000	306.873	-22.7	91	0.00
16	T	Acetone	250.000	233.292	6.7	80	0.00
17	T	Carbon Disulfide	50.000	52.888	-5.8	86	0.00
18	T	Methyl Acetate	50.000	61.011	-22.0	84	0.00
19	T	Methyl tert-butyl Ether	50.000	54.228	-8.5	82	0.00
20	T	Methylene Chloride	50.000	53.176	-6.4	84	0.00
21	T	trans-1,2-Dichloroethene	50.000	53.545	-7.1	83	0.00
22	T	Diisopropyl ether	50.000	54.161	-8.3	82	0.00
23	T	Vinyl Acetate	250.000	278.405	-11.4	84	0.00
24	P	1,1-Dichloroethane	50.000	53.106	-6.2	81	0.00
25	T	2-Butanone	250.000	289.378	-15.8	89	0.00
26	T	2,2-Dichloropropane	50.000	24.508	51.0#	38	0.00
27	T	cis-1,2-Dichloroethene	50.000	53.299	-6.6	81	0.00
28	T	Bromochloromethane	50.000	53.622	-7.2	81	0.00
29	T	Tetrahydrofuran	250.000	311.862	-24.7	92	0.00
30	C	Chloroform	50.000	53.913	-7.8#	82	0.00
31	T	Cyclohexane	50.000	50.693	-1.4	81	0.00
32	T	1,1,1-Trichloroethane	50.000	52.395	-4.8	79	0.00
33	S	1,2-Dichloroethane-d4	50.000	54.388	-8.8	88	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	83	0.00
35	S	Dibromofluoromethane	50.000	53.983	-8.0	91	0.00
36	T	1,1-Dichloropropene	50.000	48.437	3.1	81	0.00
37	T	Ethyl Acetate	50.000	55.869	-11.7	91	0.00
38	T	Carbon Tetrachloride	50.000	48.322	3.4	79	0.00
39	T	Methylcyclohexane	50.000	47.171	5.7	77	0.00
40	TM	Benzene	50.000	51.523	-3.0	83	0.00
41	T	Methacrylonitrile	50.000	56.618	-13.2	89	0.00
42	TM	1,2-Dichloroethane	50.000	49.663	0.7	80	0.00
43	T	Isopropyl Acetate	50.000	53.933	-7.9	86	0.00
44	TM	Trichloroethene	50.000	51.488	-3.0	83	0.00
45	C	1,2-Dichloropropane	50.000	52.653	-5.3#	84	0.00
46	T	Dibromomethane	50.000	52.881	-5.8	84	0.00
47	T	Bromodichloromethane	50.000	51.676	-3.4	81	0.00
48	T	Methyl methacrylate	50.000	54.378	-8.8	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
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Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1379.627	-38.0#	103	0.00
50	S	Toluene-d8	50.000	53.290	-6.6	89	0.00
51	T	4-Methyl-2-Pentanone	250.000	296.207	-18.5	92	0.00
52	CM	Toluene	50.000	51.397	-2.8#	83	0.00
53	T	t-1,3-Dichloropropene	50.000	46.292	7.4	72	0.00
54	T	cis-1,3-Dichloropropene	50.000	47.013	6.0	74	0.00
55	T	1,1,2-Trichloroethane	50.000	53.607	-7.2	85	0.00
56	T	Ethyl methacrylate	50.000	56.087	-12.2	86	0.00
57	T	1,3-Dichloropropane	50.000	54.213	-8.4	85	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	294.817	-17.9	96	0.00
59	T	2-Hexanone	250.000	288.900	-15.6	91	0.00
60	T	Dibromochloromethane	50.000	53.612	-7.2	83	0.00
61	T	1,2-Dibromoethane	50.000	56.360	-12.7	89	0.00
62	S	4-Bromofluorobenzene	50.000	53.949	-7.9	92	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64	T	Tetrachloroethene	50.000	52.130	-4.3	89	0.00
65	PM	Chlorobenzene	50.000	50.402	-0.8	84	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.137	-2.3	83	0.00
67	C	Ethyl Benzene	50.000	49.712	0.6#	82	0.00
68	T	m/p-Xylenes	100.000	101.520	-1.5	83	0.00
69	T	o-Xylene	50.000	51.290	-2.6	83	0.00
70	T	Styrene	50.000	51.662	-3.3	85	0.00
71	P	Bromoform	50.000	53.967	-7.9	87	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	88	0.00
73	T	Isopropylbenzene	50.000	48.594	2.8	81	0.00
74	T	N-amyl acetate	50.000	53.032	-6.1	87	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.960	-9.9	91	0.00
76	T	1,2,3-Trichloropropane	50.000	54.514	-9.0	87	0.00
77	T	Bromobenzene	50.000	50.657	-1.3	85	0.00
78	T	n-propylbenzene	50.000	49.095	1.8	81	0.00
79	T	2-Chlorotoluene	50.000	49.006	2.0	82	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.006	2.0	81	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	40.018	20.0	68	0.00
82	T	4-Chlorotoluene	50.000	48.683	2.6	82	0.00
83	T	tert-Butylbenzene	50.000	47.879	4.2	81	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.355	1.3	83	0.00
85	T	sec-Butylbenzene	50.000	48.459	3.1	81	0.00
86	T	p-Isopropyltoluene	50.000	47.972	4.1	80	0.00
87	T	1,3-Dichlorobenzene	50.000	49.790	0.4	84	0.00
88	T	1,4-Dichlorobenzene	50.000	48.435	3.1	84	0.00
89	T	n-Butylbenzene	50.000	47.254	5.5	79	0.00
90	T	Hexachloroethane	50.000	49.203	1.6	83	0.00
91	T	1,2-Dichlorobenzene	50.000	51.187	-2.4	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.516	-9.0	88	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.199	1.6	81	0.00
94	T	Hexachlorobutadiene	50.000	47.499	5.0	80	0.00
95	T	Naphthalene	50.000	54.002	-8.0	89	0.00

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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
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VSTDCCC050

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.369	-4.7	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/24/2025 11:46
Lab File ID:	VX047769.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.617		19.11	20
Chloromethane	0.680	0.766	0.1	12.65	20
Vinyl Chloride	0.666	0.729		9.46	20
Bromomethane	0.422	0.465		10.19	20
Chloroethane	0.445	0.474		6.52	20
Trichlorofluoromethane	0.989	1.028		3.94	20
1,1,2-Trichlorotrifluoroethane	0.578	0.606		4.84	20
1,1-Dichloroethene	0.594	0.618		4.04	20
Acetone	0.346	0.328		-5.2	20
Carbon Disulfide	1.626	1.712		5.29	20
Methyl tert-butyl Ether	2.169	2.379		9.68	20
Methyl Acetate	0.770	0.953		23.77	20
Methylene Chloride	0.732	0.792		8.2	20
trans-1,2-Dichloroethene	0.640	0.682		6.56	20
1,1-Dichloroethane	1.263	1.335	0.1	5.7	20
Cyclohexane	1.052	1.055		0.28	20
2-Butanone	0.432	0.494		14.35	20
Carbon Tetrachloride	0.532	0.515		-3.19	20
cis-1,2-Dichloroethene	0.783	0.832		6.26	20
Bromochloromethane	0.551	0.584		5.99	20
Chloroform	1.276	1.356		6.27	20
1,1,1-Trichloroethane	1.082	1.109		2.49	20
Methylcyclohexane	0.556	0.539		-3.06	20
Benzene	1.488	1.541		3.56	20
1,2-Dichloroethane	0.566	0.576		1.77	20
Trichloroethene	0.360	0.376		4.44	20
1,2-Dichloropropane	0.381	0.403		5.77	20
Bromodichloromethane	0.572	0.598		4.55	20
4-Methyl-2-Pentanone	0.477	0.566		18.66	20
Toluene	0.917	0.940		2.51	20
t-1,3-Dichloropropene	0.584	0.541		-7.36	20
cis-1,3-Dichloropropene	0.624	0.582		-6.73	20
1,1,2-Trichloroethane	0.354	0.383		8.19	20
2-Hexanone	0.343	0.399		16.33	20
Dibromochloromethane	0.407	0.435		6.88	20
1,2-Dibromoethane	0.360	0.399		10.83	20
Tetrachloroethene	0.326	0.344		5.52	20
Chlorobenzene	1.136	1.141	0.3	0.44	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO15
Lab Code:	ACE	SDG No.:	Q3097
Instrument ID:	MSVOA_X	Calibration Date/Time:	09/24/2025 11:46
Lab File ID:	VX047769.D	Init. Calib. Date(s):	09/16/2025 09/16/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:23 12:01

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	1.951		-0.46	20
m/p-Xylenes	0.729	0.736		0.96	20
o-Xylene	0.706	0.721		2.13	20
Styrene	1.236	1.272		2.91	20
Bromoform	0.293	0.318	0.1	8.53	20
Isopropylbenzene	3.801	3.731		-1.84	20
1,1,2,2-Tetrachloroethane	1.150	1.253	0.3	8.96	20
1,3-Dichlorobenzene	1.739	1.703		-2.07	20
1,4-Dichlorobenzene	1.785	1.728		-3.19	20
1,2-Dichlorobenzene	1.657	1.681		1.45	20
1,2-Dibromo-3-Chloropropane	0.233	0.248		6.44	20
1,2,4-Trichlorobenzene	1.077	1.065		-1.11	20
1,2,3-Trichlorobenzene	1.002	1.020		1.8	20
1,2-Dichloroethane-d4	0.796	0.866		8.79	20
Dibromofluoromethane	0.335	0.367		9.55	20
Toluene-d8	1.160	1.231		6.03	20
4-Bromofluorobenzene	0.440	0.462		5	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	144936	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	262651	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	234932	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	125490	54.395	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.780%			
35) Dibromofluoromethane	5.367	113	96384	54.718	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.440%			
50) Toluene-d8	8.635	98	323192	53.025	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.060%			
62) 4-Bromofluorobenzene	11.061	95	121324	52.449	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	89442	59.595	ug/l	97
3) Chloromethane	1.301	50	110955	56.251	ug/l	100
4) Vinyl Chloride	1.380	62	105587	54.684	ug/l	100
5) Bromomethane	1.618	94	67448	55.087	ug/l	95
6) Chloroethane	1.691	64	68714	53.245	ug/l	100
7) Trichlorofluoromethane	1.892	101	148967	51.960	ug/l	97
8) Diethyl Ether	2.136	74	63740	54.350	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	87886	52.426	ug/l	100
10) Methyl Iodide	2.453	142	133625	51.110	ug/l	100
11) Tert butyl alcohol	2.941	59	72643	282.723	ug/l	100
12) 1,1-Dichloroethene	2.319	96	89522	51.987	ug/l	95
13) Acrolein	2.233	56	66500	280.858	ug/l	98
14) Allyl chloride	2.660	41	167585	47.162	ug/l	96
15) Acrylonitrile	3.056	53	295866	310.874	ug/l	99
16) Acetone	2.374	43	237549	236.815	ug/l	99
17) Carbon Disulfide	2.514	76	248080	52.625	ug/l	99
18) Methyl Acetate	2.697	43	138191	61.903	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	344812	54.854	ug/l	100
20) Methylene Chloride	2.782	84	114851	54.091	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	98912	53.353	ug/l	100
22) Diisopropyl ether	3.745	45	374002	54.309	ug/l #	81
23) Vinyl Acetate	3.709	43	1524747	276.642	ug/l	100
24) 1,1-Dichloroethane	3.605	63	193428	52.845	ug/l	99
25) 2-Butanone	4.538	43	357769	285.932	ug/l	99
26) 2,2-Dichloropropane	4.465	77	69736	22.920	ug/l	91
27) cis-1,2-Dichloroethene	4.471	96	120574	53.106	ug/l	93
28) Bromochloromethane	4.879	49	84604	52.945	ug/l	99
29) Tetrahydrofuran	4.983	42	224794	298.644	ug/l	99
30) Chloroform	5.074	83	196569	53.144	ug/l	97
31) Cyclohexane	5.452	56	152895	50.154	ug/l	98
32) 1,1,1-Trichloroethane	5.367	97	160765	51.242	ug/l	99
36) 1,1-Dichloropropene	5.678	75	124159	48.237	ug/l	98
37) Ethyl Acetate	4.696	43	151768	55.069	ug/l	99
38) Carbon Tetrachloride	5.666	117	135392	48.413	ug/l	100
39) Methylcyclohexane	7.361	83	141473	48.420	ug/l	100
40) Benzene	6.019	78	404676	51.764	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.898	41	82213	57.784	ug/l	98
42) 1,2-Dichloroethane	6.068	62	151181	50.825	ug/l	98
43) Isopropyl Acetate	6.318	43	249260	55.147	ug/l	98
44) Trichloroethene	7.111	130	98697	52.220	ug/l	92
45) 1,2-Dichloropropane	7.409	63	105950	52.927	ug/l	98
46) Dibromomethane	7.562	93	77988	53.536	ug/l	98
47) Bromodichloromethane	7.806	83	157033	52.239	ug/l	96
48) Methyl methacrylate	7.678	41	125046	55.541	ug/l	98
49) 1,4-Dioxane	7.647	88	31029	1363.725	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	743688	296.757	ug/l	100
52) Toluene	8.702	92	246870	51.255	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	142087	46.340	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	152733	46.603	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	100531	54.130	ug/l	99
56) Ethyl methacrylate	9.098	69	163699	56.125	ug/l	97
57) 1,3-Dichloropropane	9.293	76	173795	54.475	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	416075	295.083	ug/l	99
59) 2-Hexanone	9.415	43	523995	291.132	ug/l	99
60) Dibromochloromethane	9.507	129	114327	53.426	ug/l	98
61) 1,2-Dibromoethane	9.592	107	104712	55.355	ug/l	99
64) Tetrachloroethene	9.257	164	80858	52.796	ug/l	97
65) Chlorobenzene	10.061	112	268000	50.214	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	94676	51.406	ug/l	99
67) Ethyl Benzene	10.177	91	458381	49.776	ug/l	98
68) m/p-Xylenes	10.287	106	345991	100.941	ug/l	99
69) o-Xylene	10.622	106	169360	51.084	ug/l	98
70) Styrene	10.640	104	298721	51.423	ug/l	98
71) Bromoform	10.781	173	74635	54.272	ug/l	98
73) Isopropylbenzene	10.945	105	425664	49.073	ug/l	100
74) N-amyl acetate	10.823	43	213456	53.964	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	142930	54.463	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	113356m	49.071	ug/l	
77) Bromobenzene	11.183	156	108405	50.743	ug/l	96
78) n-propylbenzene	11.287	91	500892	48.849	ug/l	100
79) 2-Chlorotoluene	11.348	91	308064	49.053	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	351131	49.271	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	36657	40.467	ug/l	98
82) 4-Chlorotoluene	11.439	91	361984	48.802	ug/l	98
83) tert-Butylbenzene	11.695	119	352077	48.261	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	355686	49.229	ug/l	100
85) sec-Butylbenzene	11.872	105	425279	49.078	ug/l	99
86) p-Isopropyltoluene	11.988	119	358328	48.845	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	194346	48.977	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	197165	48.412	ug/l	100
89) n-Butylbenzene	12.311	91	320524	47.219	ug/l	99
90) Hexachloroethane	12.518	117	62680	48.665	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	191801	50.735	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.921	75	28256	53.180	ug/l	94
93) 1,2,4-Trichlorobenzene	13.567	180	121509	49.455	ug/l	99
94) Hexachlorobutadiene	13.707	225	38612	46.267	ug/l	98
95) Naphthalene	13.756	128	395438	52.855	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	116383	50.922	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

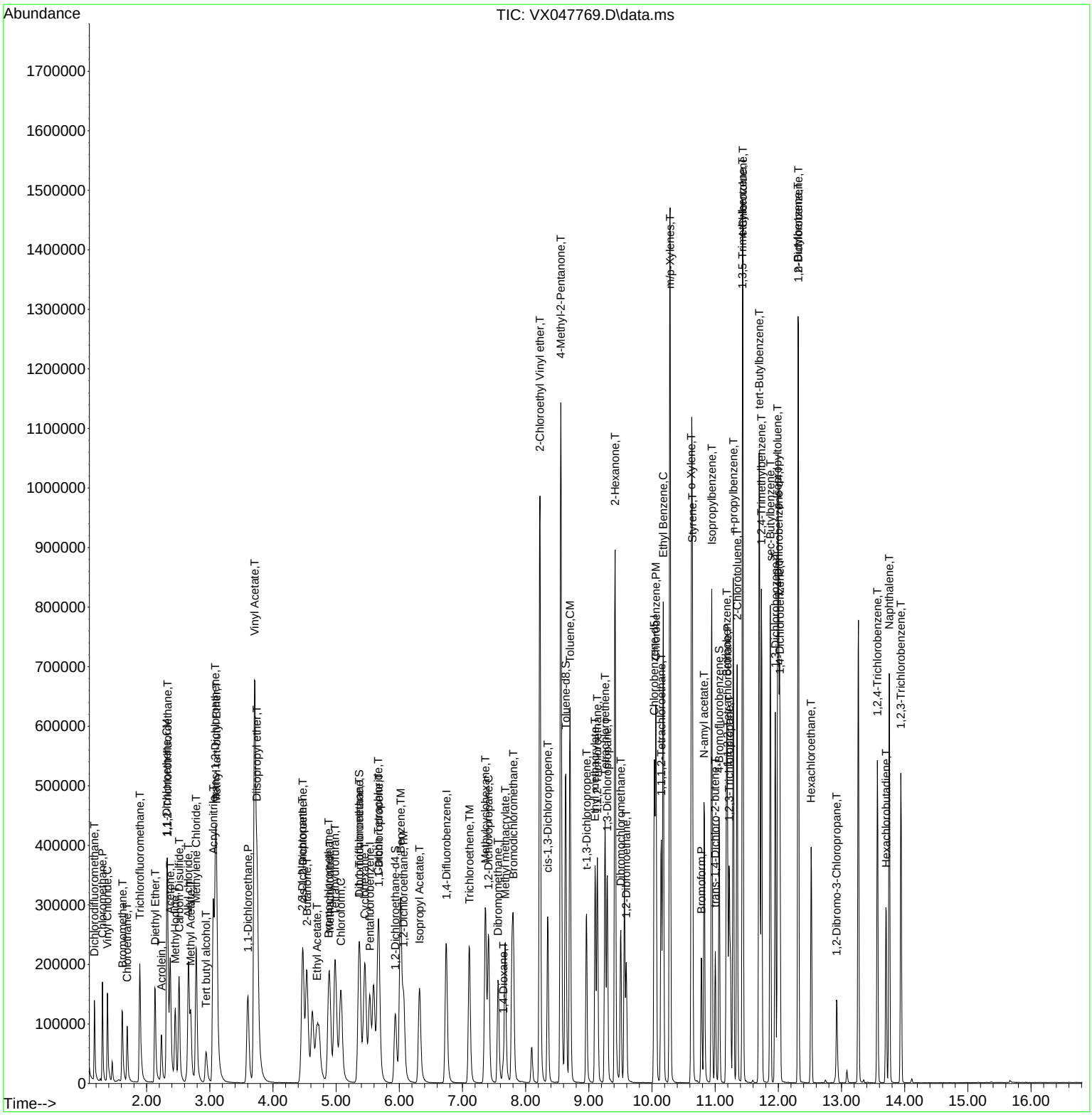
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

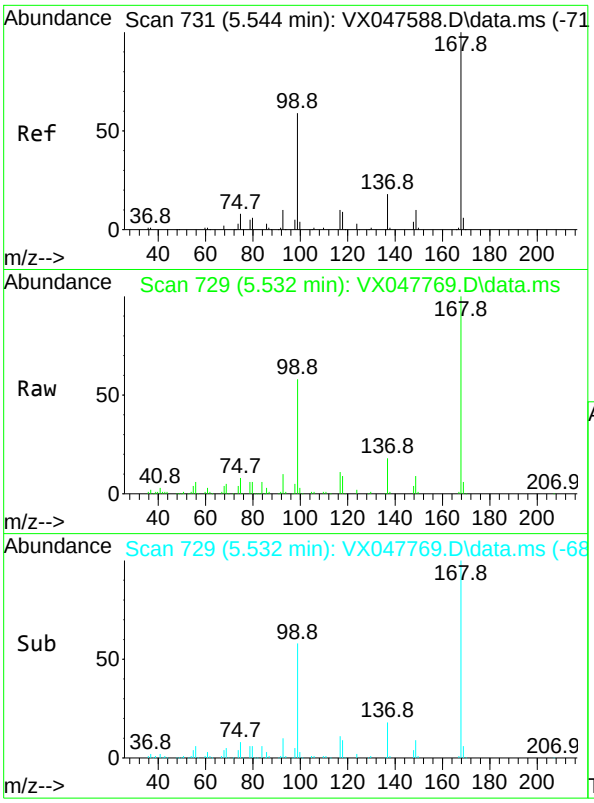
Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

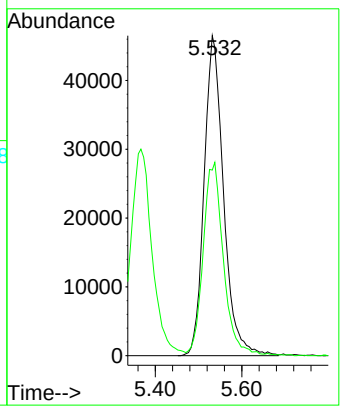




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:168 Resp: 14493

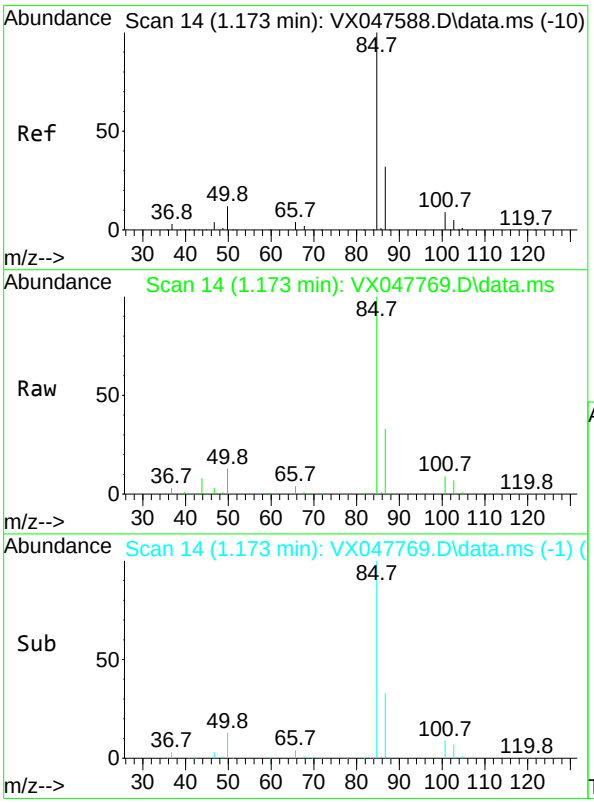
Ion	Ratio	Lower	Upper
168	100		
99	57.7	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

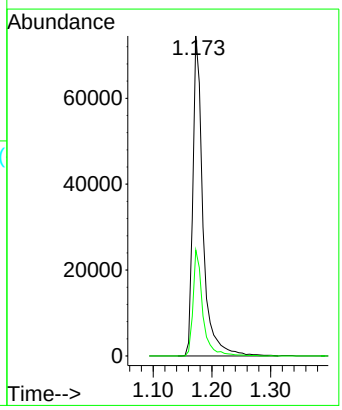
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

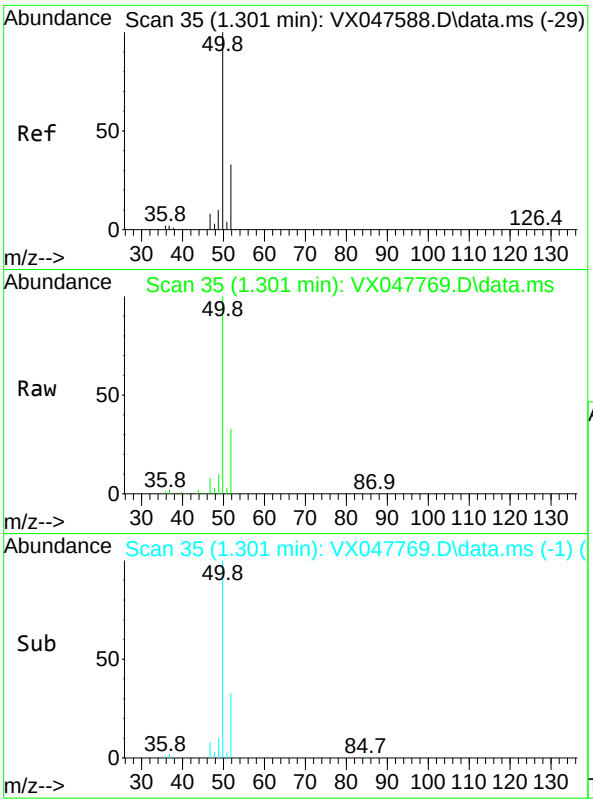


#2
Dichlorodifluoromethane
Concen: 59.595 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 85 Resp: 89442

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.8	47.3

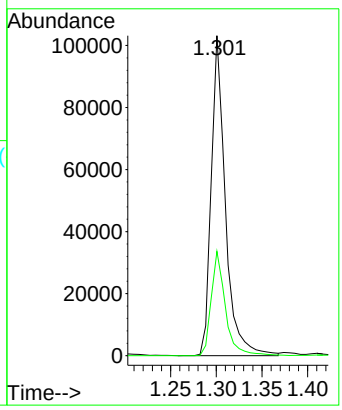




#3
Chloromethane
Concen: 56.251 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 50 Resp: 11095

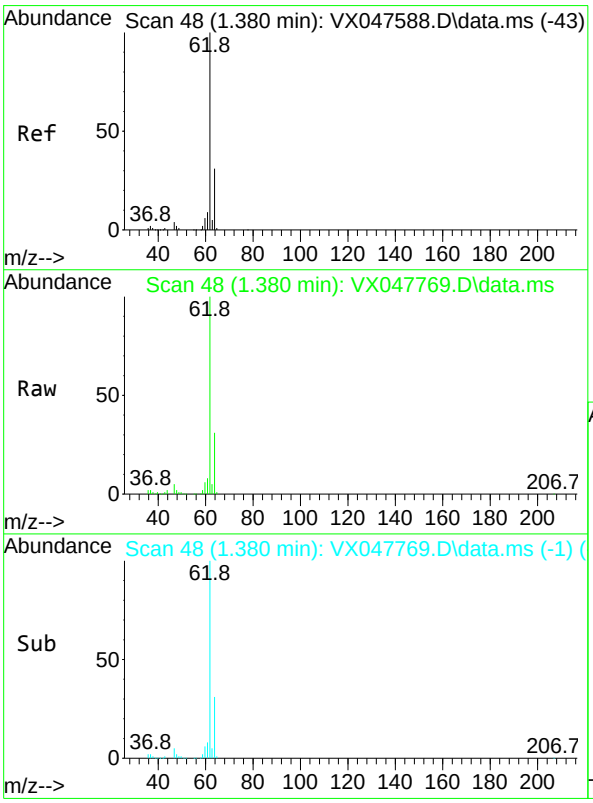
Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

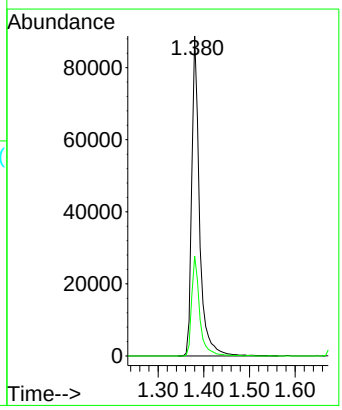
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

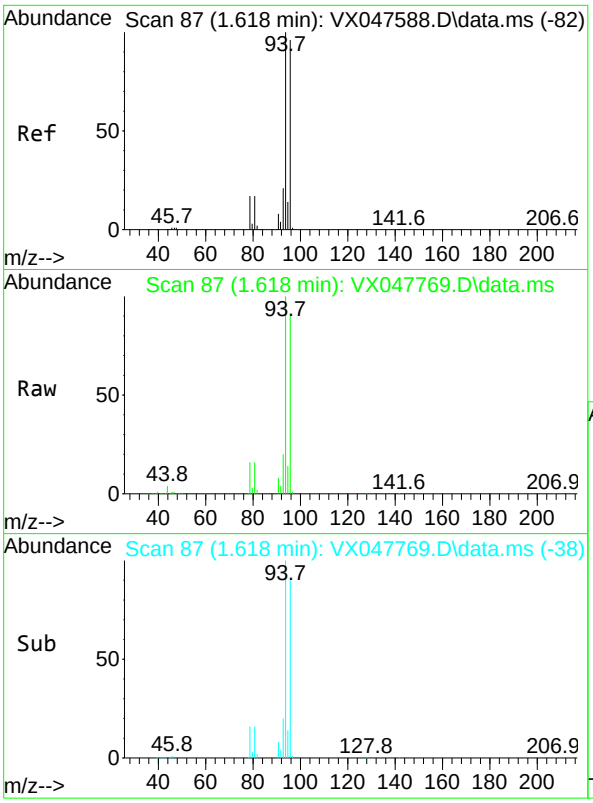


#4
Vinyl Chloride
Concen: 54.684 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 62 Resp: 105587

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.9	37.3

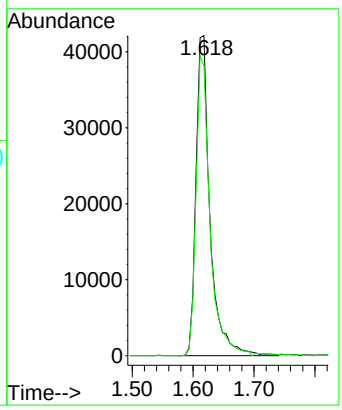




#5
Bromomethane
Concen: 55.087 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 94 Resp: 6744

Ion	Ratio	Lower	Upper
94	100		
96	90.5	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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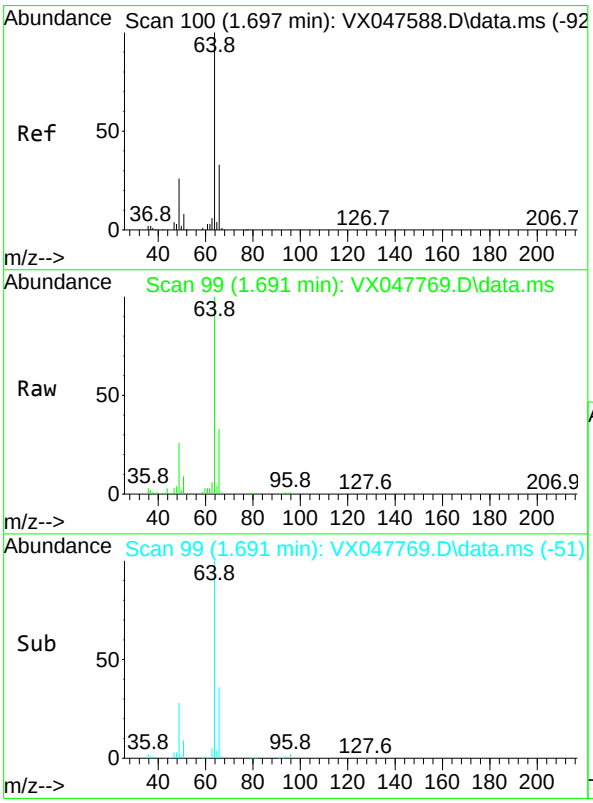
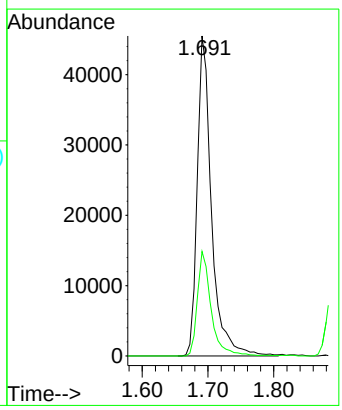
Supervised By :Mahesh Dadoda 09/26/2025

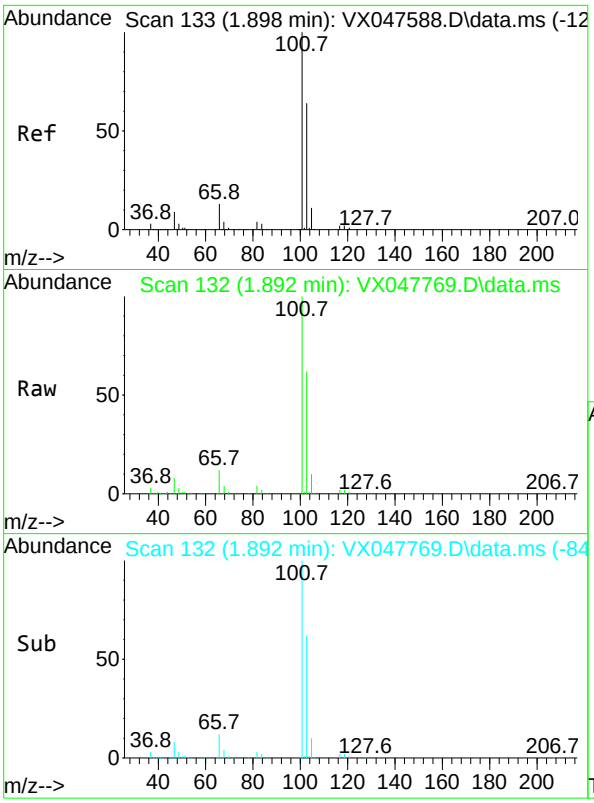


#6
Chloroethane
Concen: 53.245 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 64 Resp: 68714

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.1	39.1

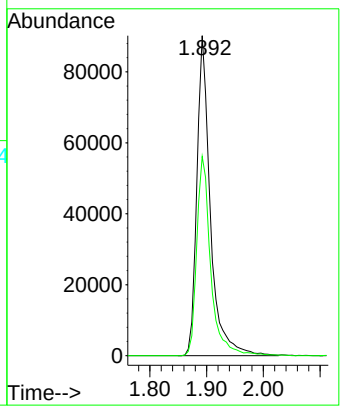




#7
Trichlorofluoromethane
Concen: 51.960 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:101 Resp: 14896

Ion	Ratio	Lower	Upper
101	100		
103	62.3	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
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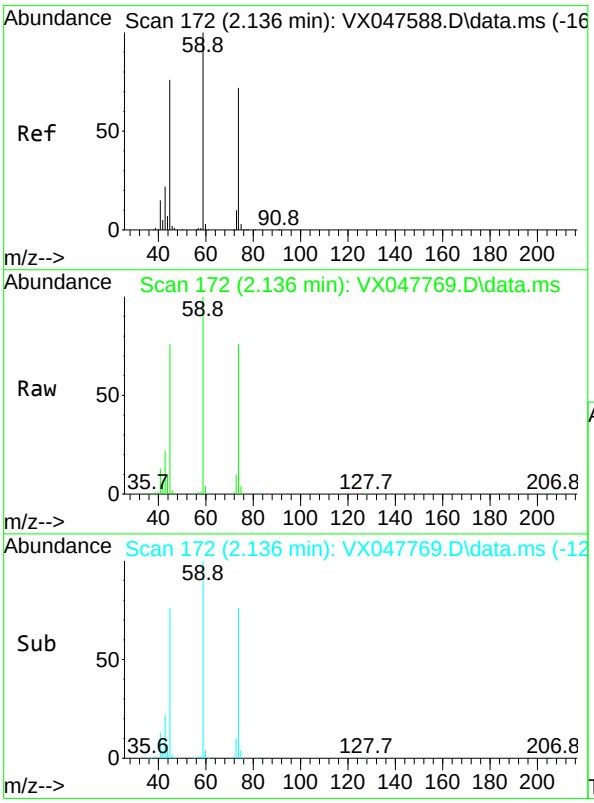
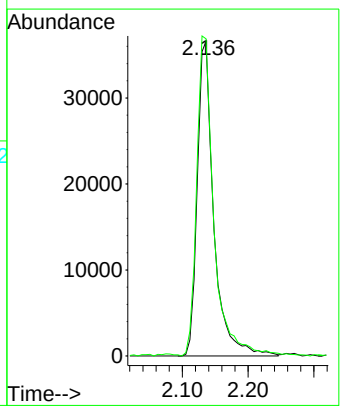
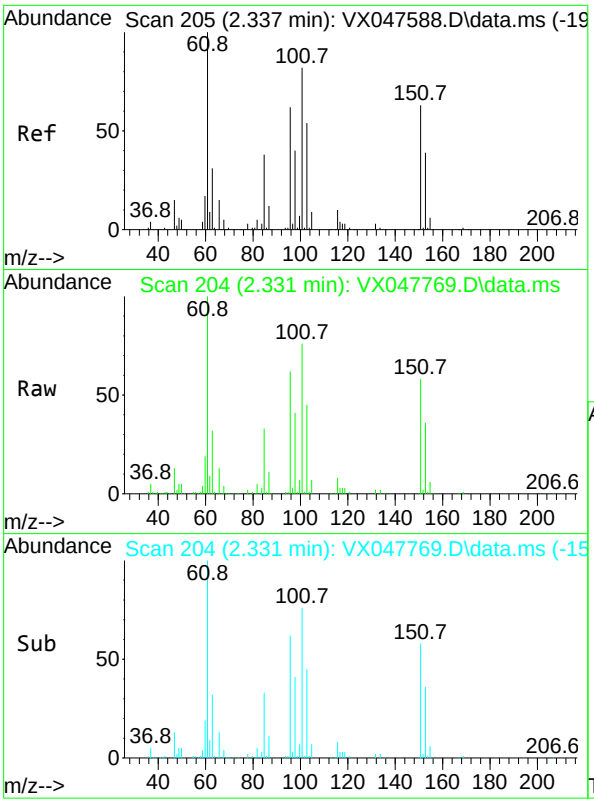


#8
Diethyl Ether
Concen: 54.350 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 74 Resp: 63740

Ion	Ratio	Lower	Upper
74	100		
45	106.5	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.426 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:101 Resp: 8788

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	73.6	59.4	89.0

Instrument :
MSVOA_X
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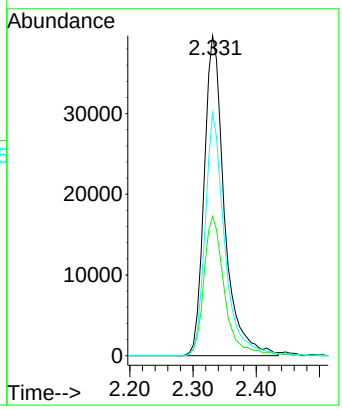
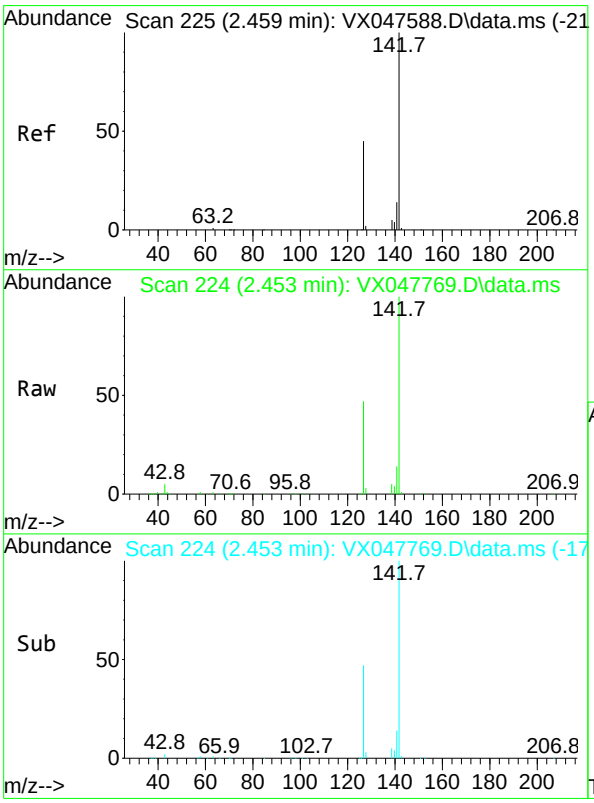
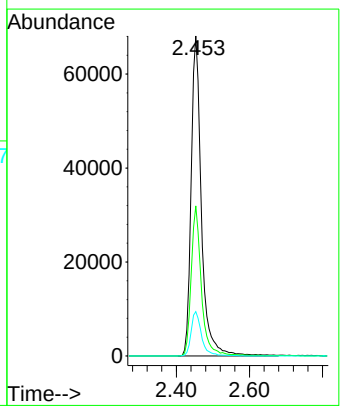


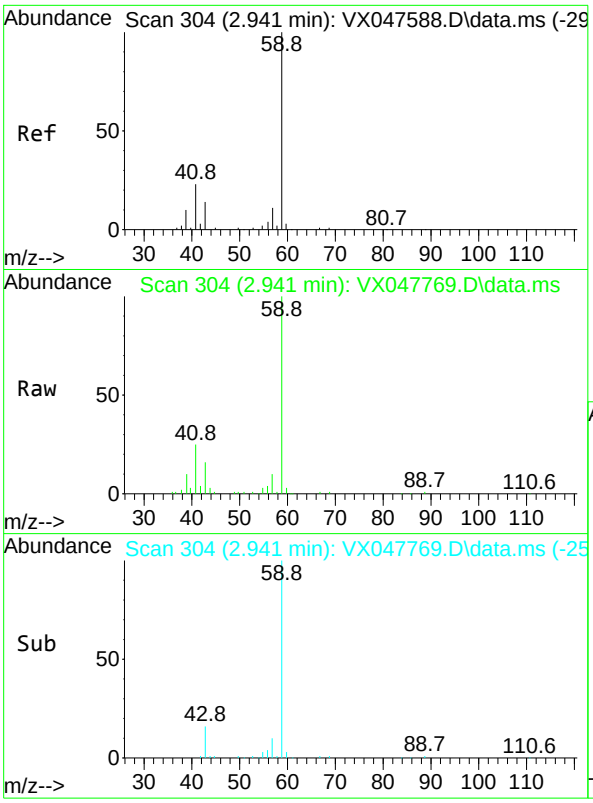


#10
Methyl Iodide
Concen: 51.110 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:142 Resp: 133625

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.1	11.4	17.0

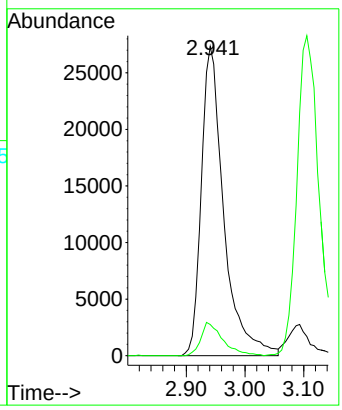




#11
Tert butyl alcohol
Concen: 282.723 ug/l
RT: 2.941 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 59 Resp: 7264

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5



Instrument :
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ClientSampleId :
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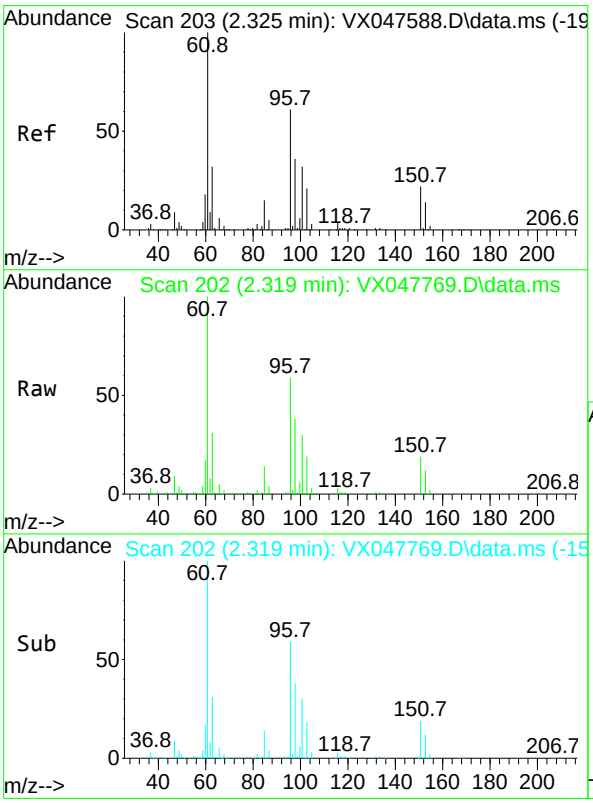
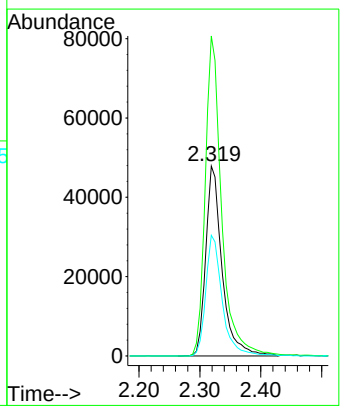
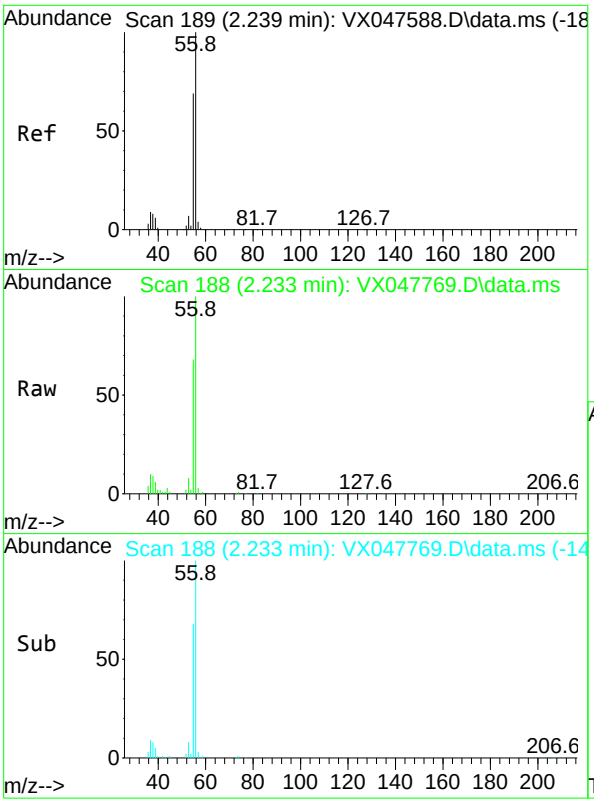


#12
1,1-Dichloroethene
Concen: 51.987 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 96 Resp: 89522

Ion	Ratio	Lower	Upper
96	100		
61	168.4	131.0	196.6
98	65.2	47.7	71.5

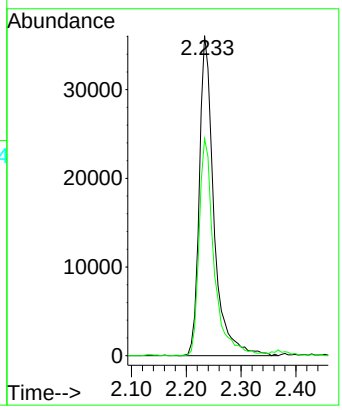




#13
Acrolein
Concen: 280.858 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 56 Resp: 6650

Ion	Ratio	Lower	Upper
56	100		
55	69.7	57.2	85.8



Instrument :
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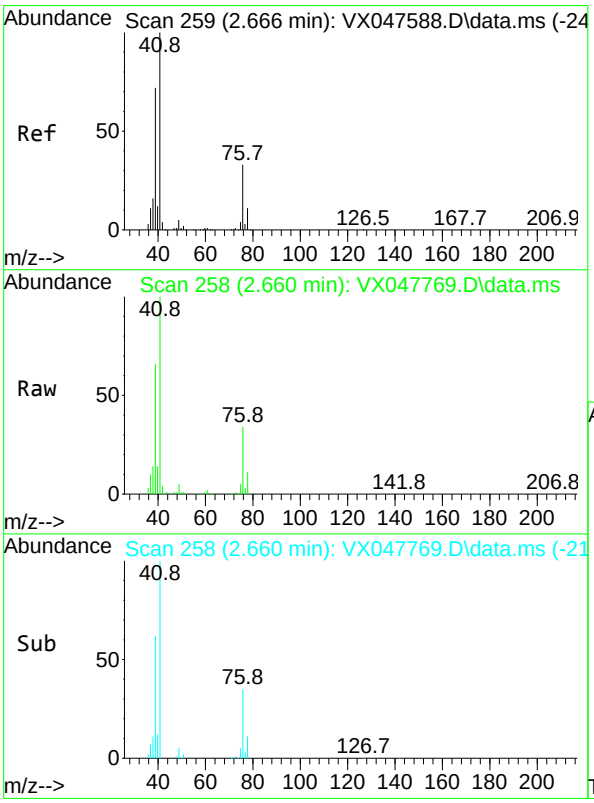
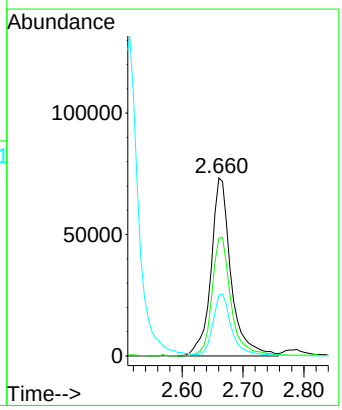
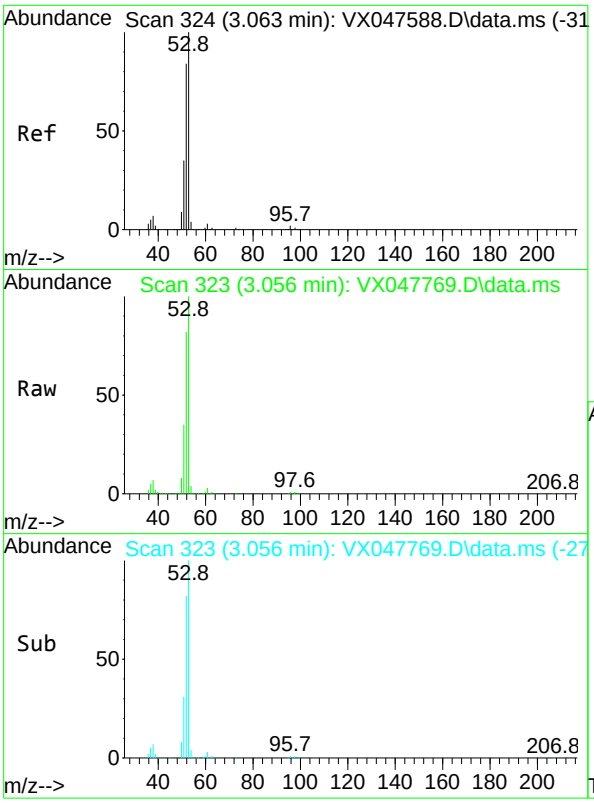


#14
Allyl chloride
Concen: 47.162 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 41 Resp: 167585

Ion	Ratio	Lower	Upper
41	100		
39	63.8	54.7	82.1
76	32.5	25.7	38.5

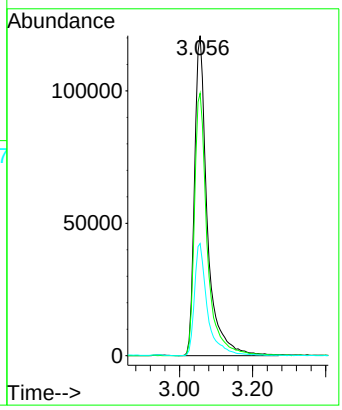




#15
Acrylonitrile
Concen: 310.874 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 53 Resp: 29586

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.4	99.6
51	35.7	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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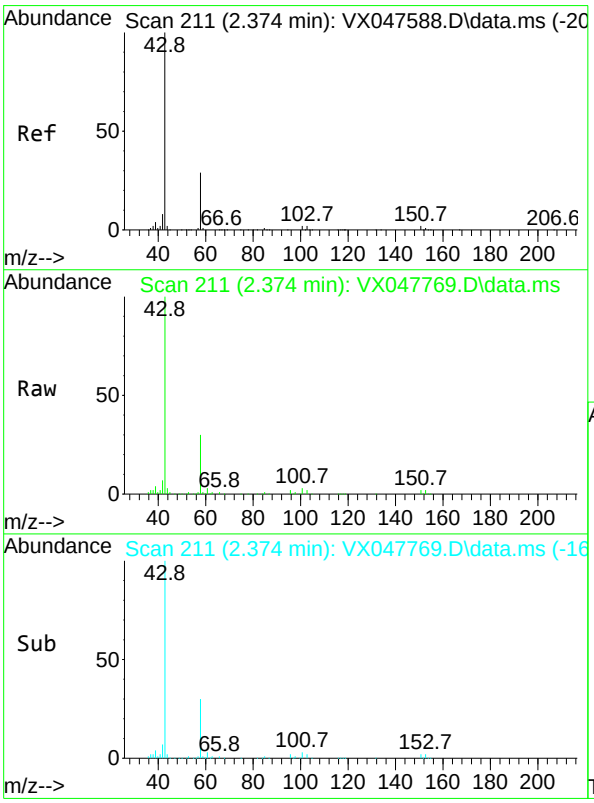
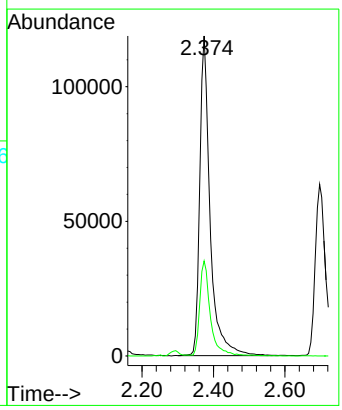
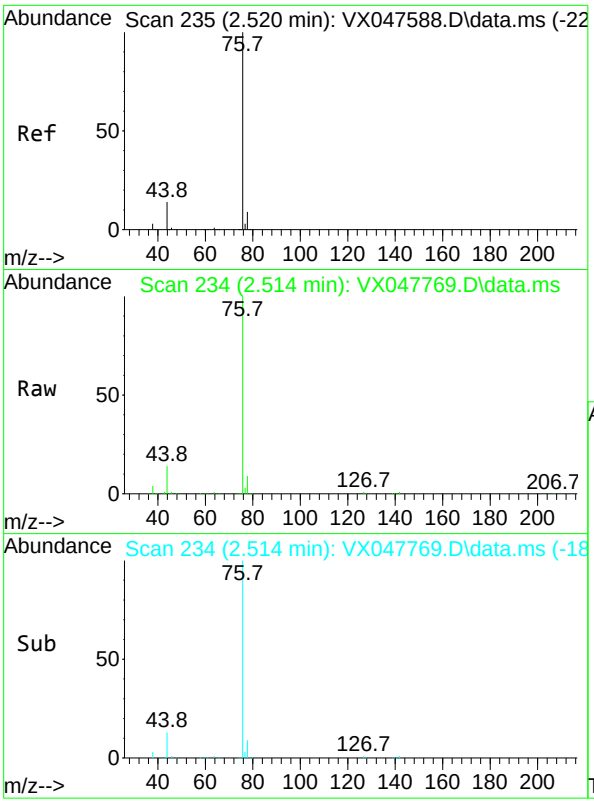


#16
Acetone
Concen: 236.815 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 237549

Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.4	35.0

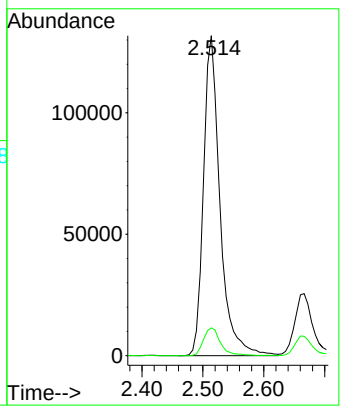




#17
Carbon Disulfide
Concen: 52.625 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 76 Resp: 24808

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2



Instrument :
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ClientSampleId :
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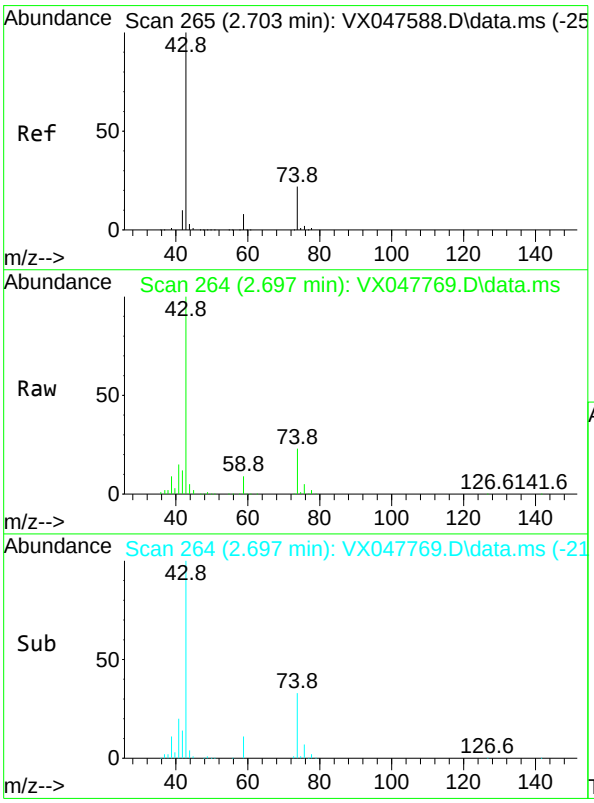
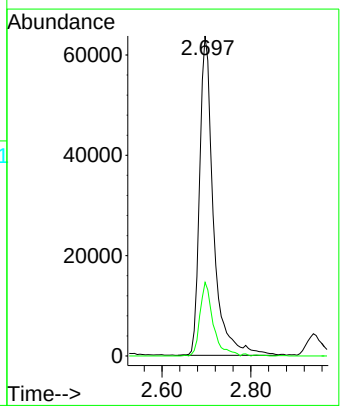
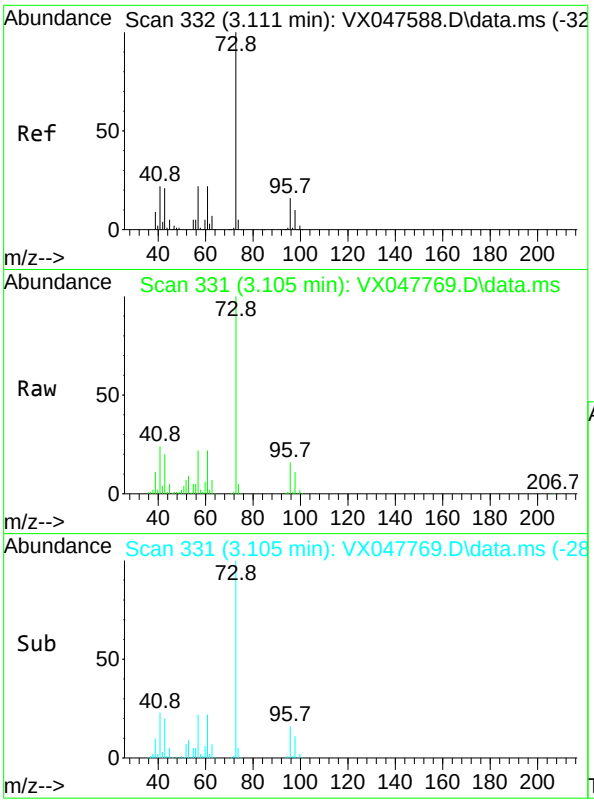


#18
Methyl Acetate
Concen: 61.903 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 138191

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2

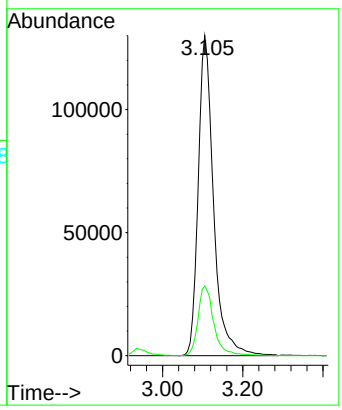




#19
Methyl tert-butyl Ether
Concen: 54.854 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 73 Resp: 34481

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2



Instrument :
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ClientSampleId :
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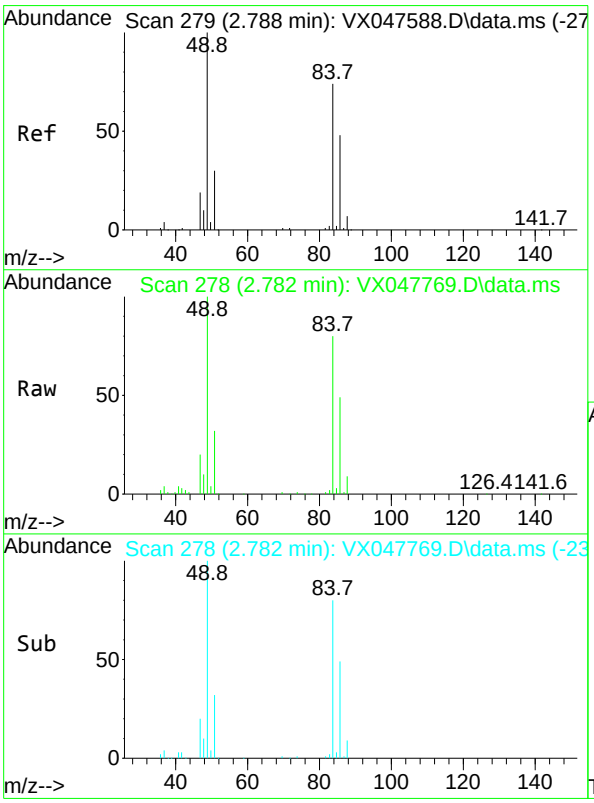
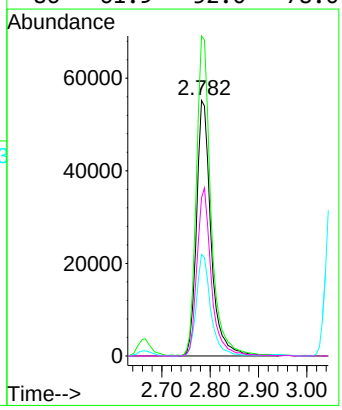
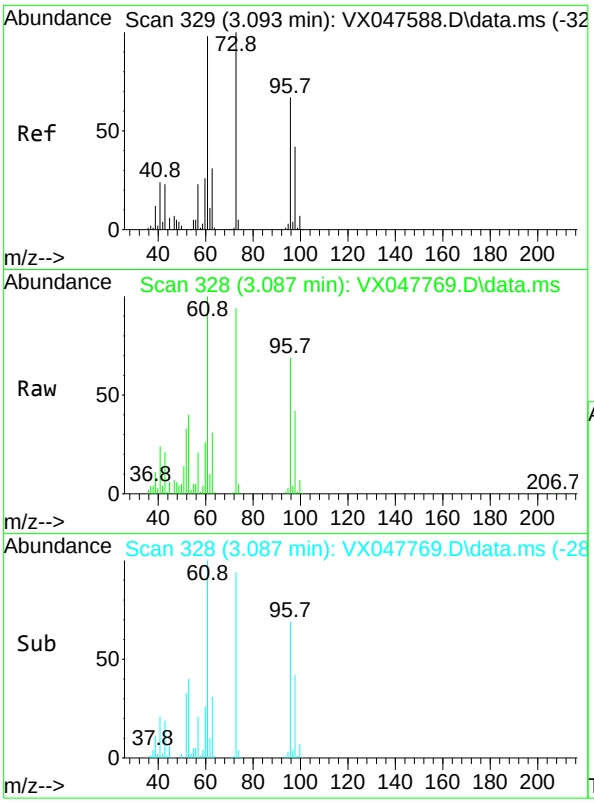


#20
Methylene Chloride
Concen: 54.091 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 84 Resp: 114851

Ion	Ratio	Lower	Upper
84	100		
49	124.9	108.6	162.8
51	39.7	32.6	48.8
86	61.9	52.0	78.0

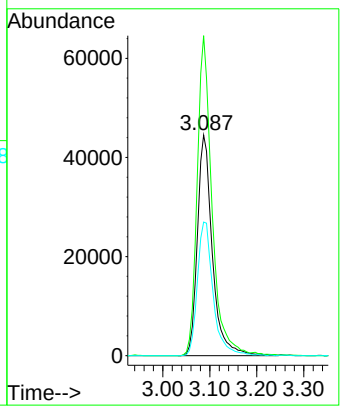




#21
trans-1,2-Dichloroethene
Concen: 53.353 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 96 Resp: 9891

Ion	Ratio	Lower	Upper
96	100		
61	145.1	116.2	174.2
98	60.5	49.3	73.9



Instrument :
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ClientSampleId :
VSTDCCC050

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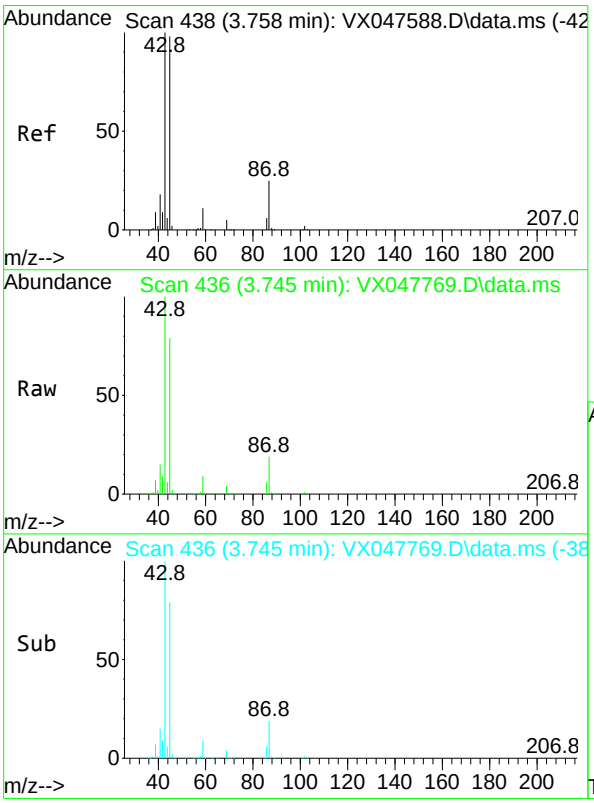
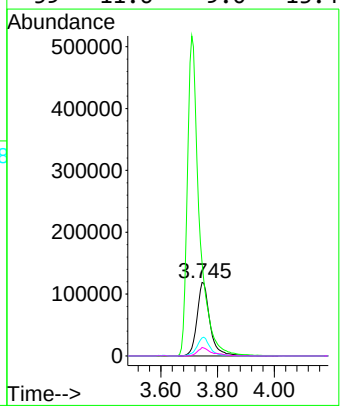
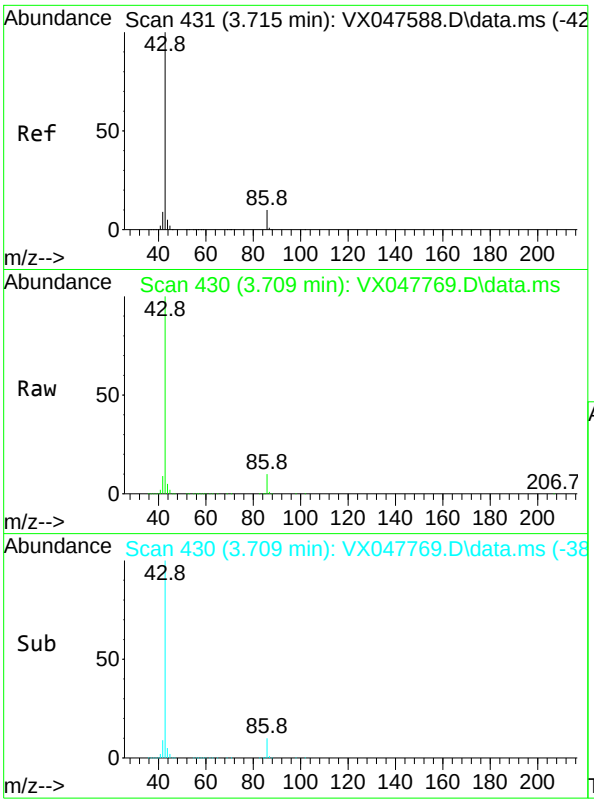


#22
Diisopropyl ether
Concen: 54.309 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 45 Resp: 374002

Ion	Ratio	Lower	Upper
45	100		
43	126.9	81.0	121.4#
87	24.7	20.3	30.5
59	11.6	9.0	13.4

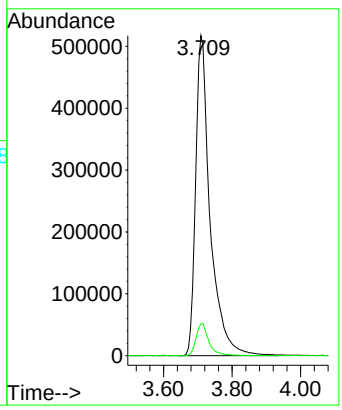




#23
Vinyl Acetate
Concen: 276.642 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 152474

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
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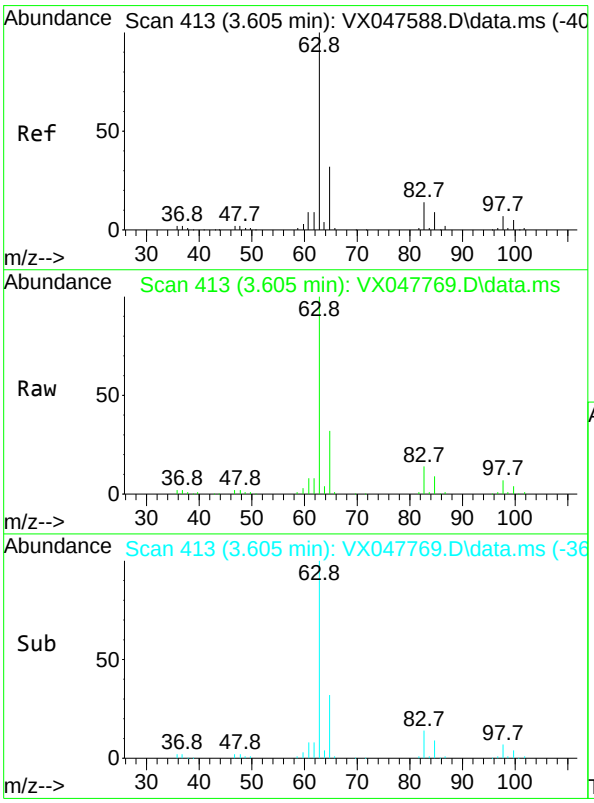
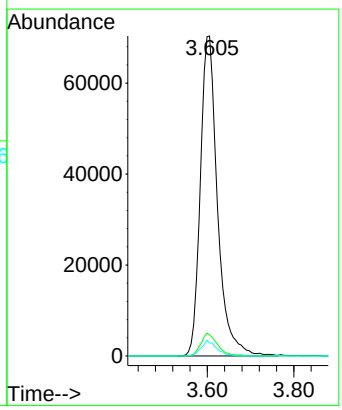
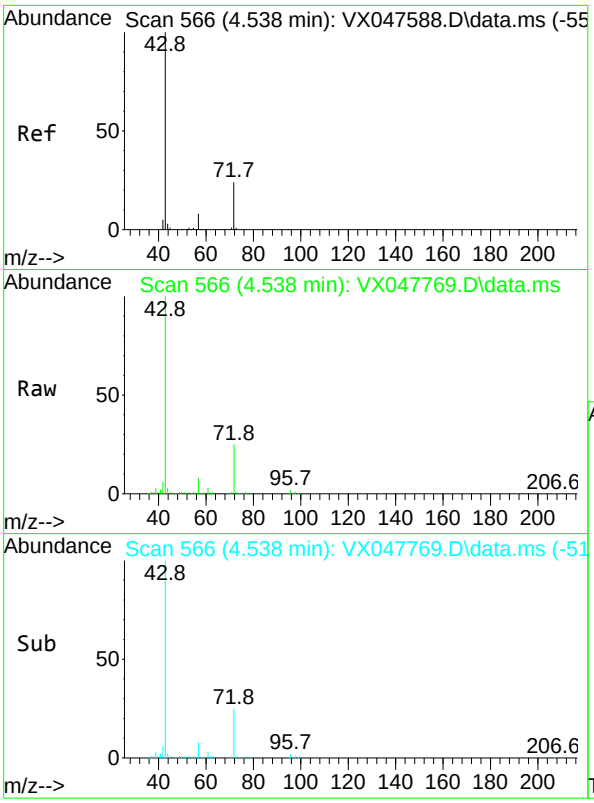


#24
1,1-Dichloroethane
Concen: 52.845 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 63 Resp: 193428

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.8	11.2
100	4.3	2.3	6.9

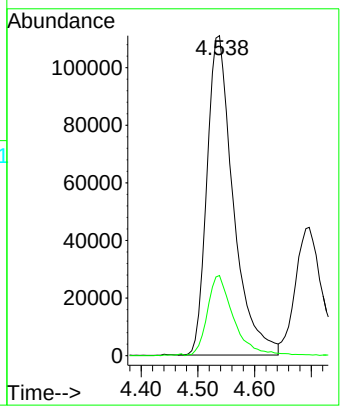




#25
2-Butanone
Concen: 285.932 ug/l
RT: 4.538 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 35776

Ion	Ratio	Lower	Upper
43	100		
72	24.7	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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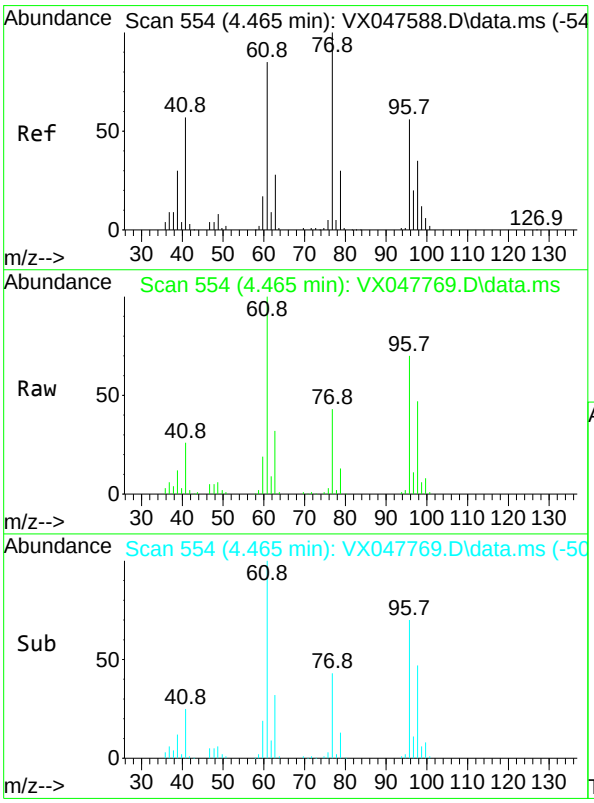
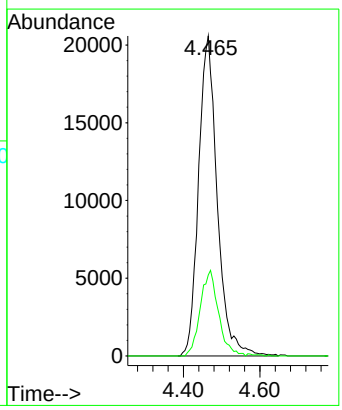
Supervised By :Mahesh Dadoda 09/26/2025

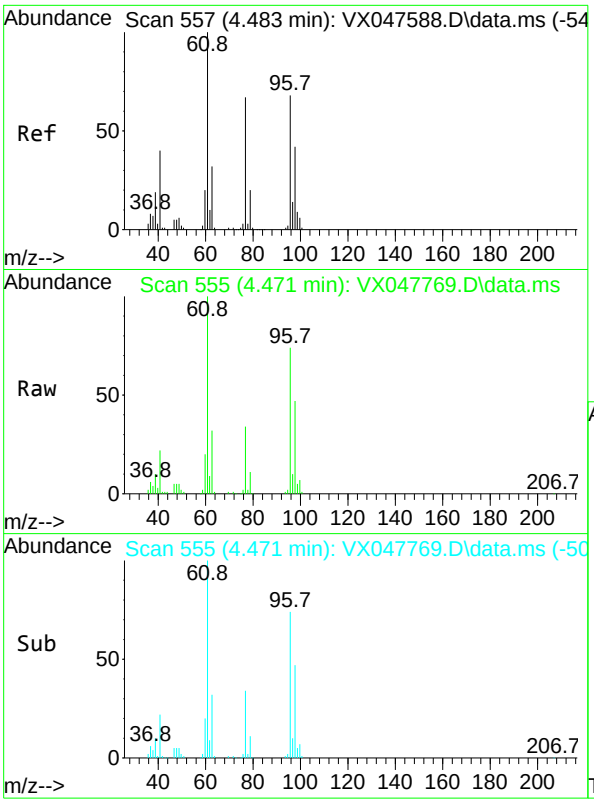


#26
2,2-Dichloropropane
Concen: 22.920 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 77 Resp: 69736

Ion	Ratio	Lower	Upper
77	100		
97	26.0	10.9	32.7

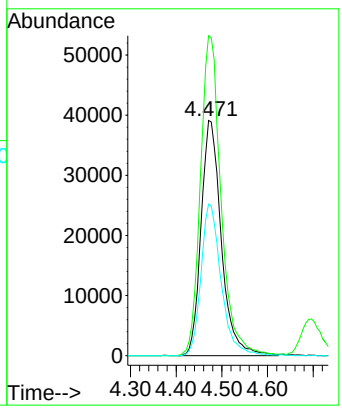




#27
cis-1,2-Dichloroethene
Concen: 53.106 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 96 Resp: 12057

Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	303.2
98	64.2	0.0	127.8



Instrument :
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ClientSampleId :
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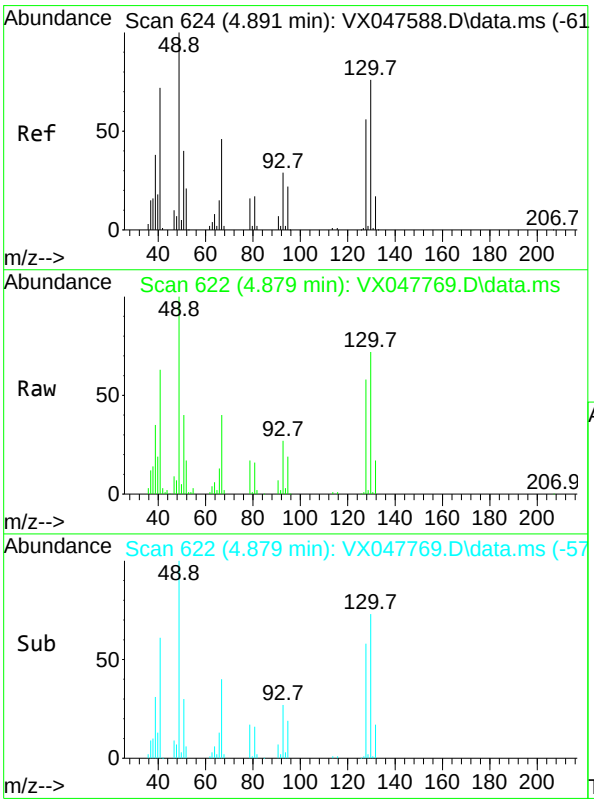
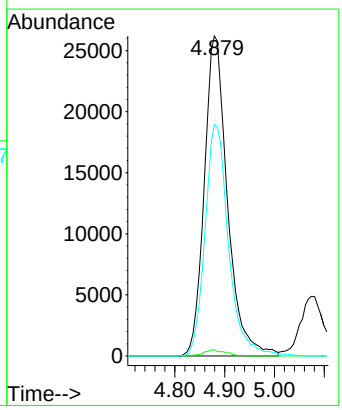
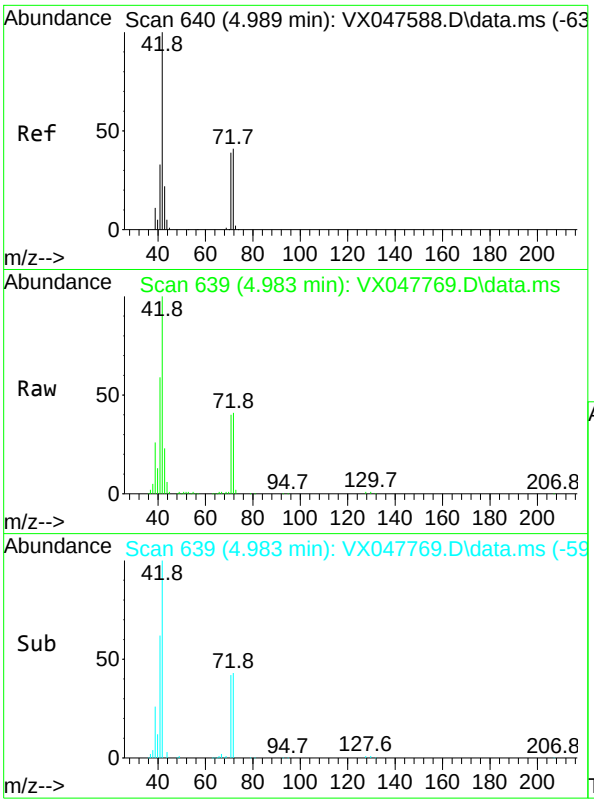


#28
Bromochloromethane
Concen: 52.945 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 49 Resp: 84604

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	73.4	57.8	86.8

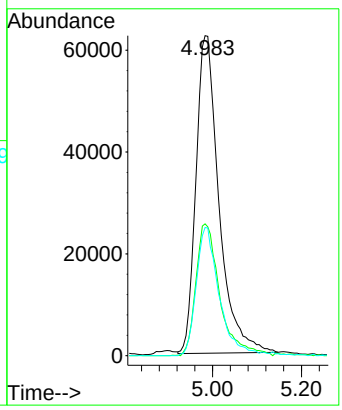




#29
Tetrahydrofuran
Concen: 298.644 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 42 Resp: 22479

Ion	Ratio	Lower	Upper
42	100		
72	43.2	34.2	51.2
71	40.3	31.9	47.9



Instrument :
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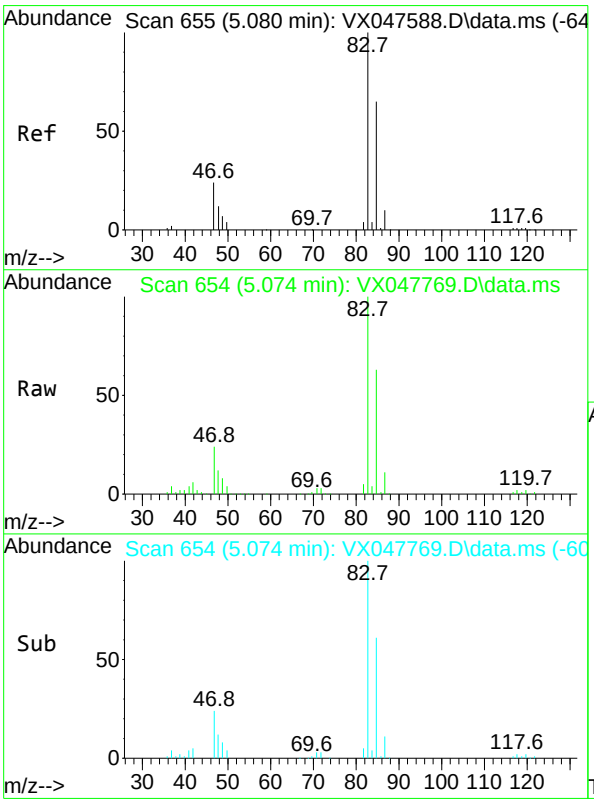
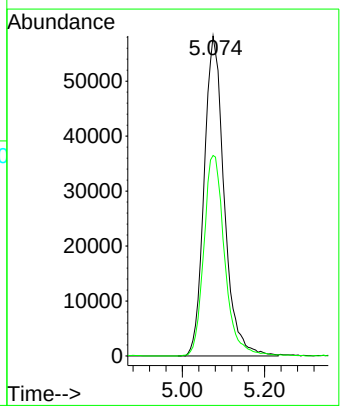
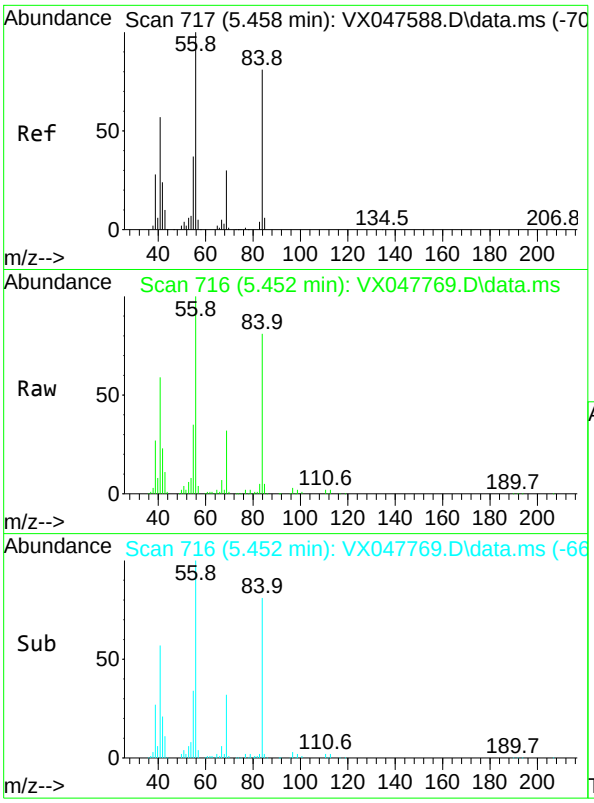


#30
Chloroform
Concen: 53.144 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 83 Resp: 196569

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.8	77.6

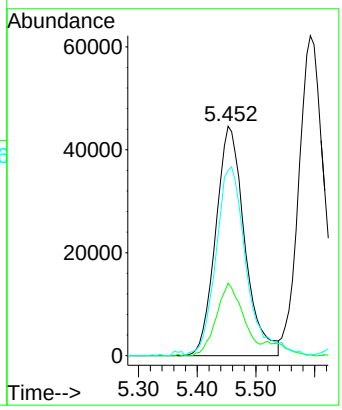




#31
Cyclohexane
Concen: 50.154 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 56 Resp: 15289

Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.8	35.8
84	79.0	64.6	97.0



Instrument :
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ClientSampleId :
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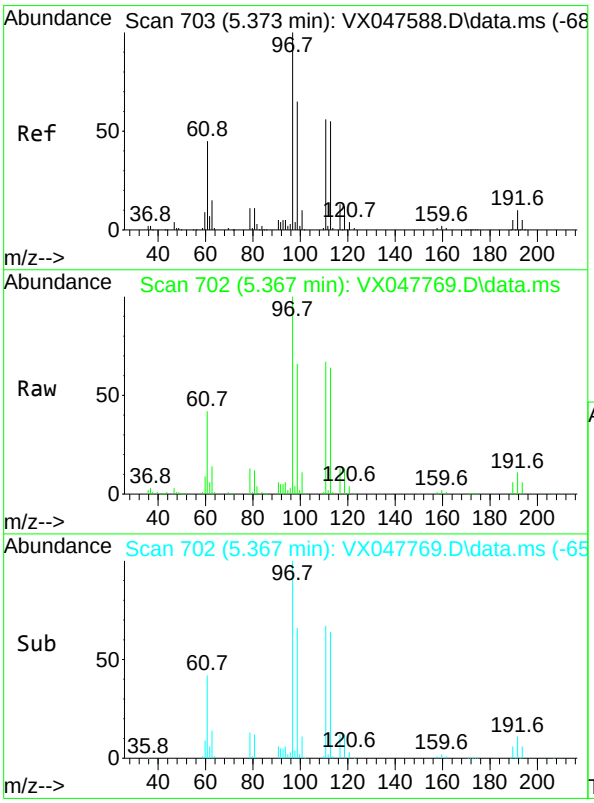
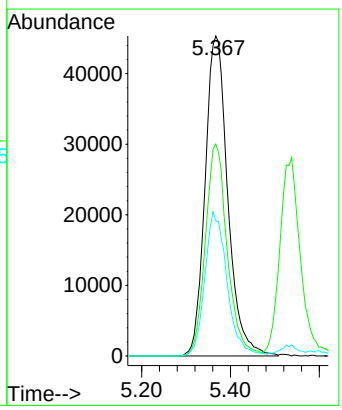
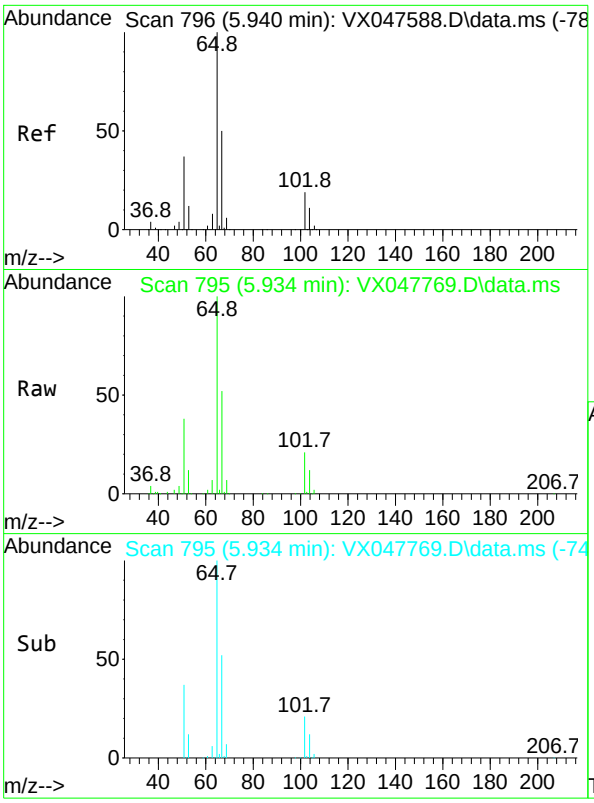


#32
1,1,1-Trichloroethane
Concen: 51.242 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 97 Resp: 160765

Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.6	76.0
61	44.1	35.8	53.8

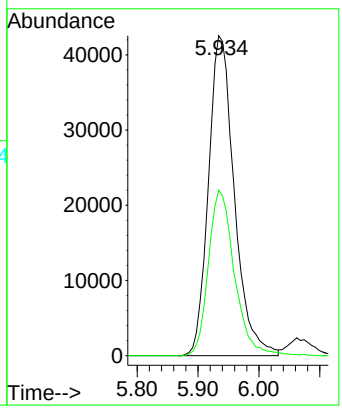




#33
1,2-Dichloroethane-d4
Concen: 54.395 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 65 Resp: 12549

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
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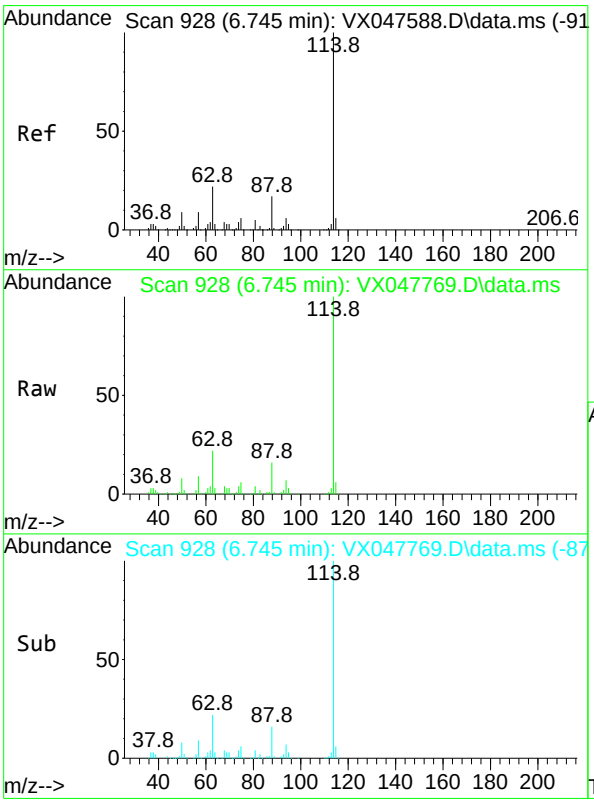
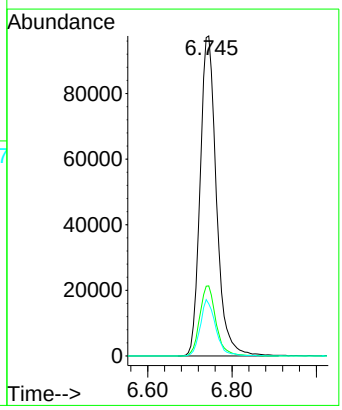
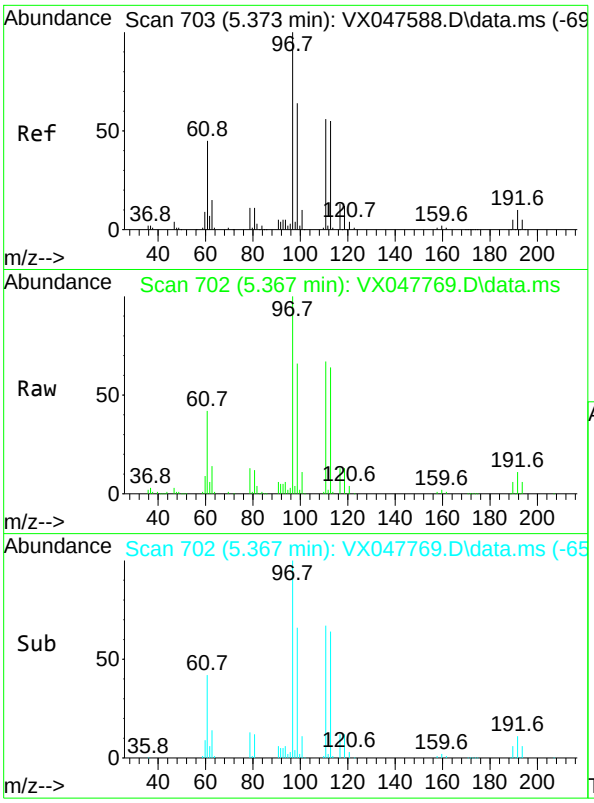


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:114 Resp: 262651

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.0
88	16.3	0.0	34.2

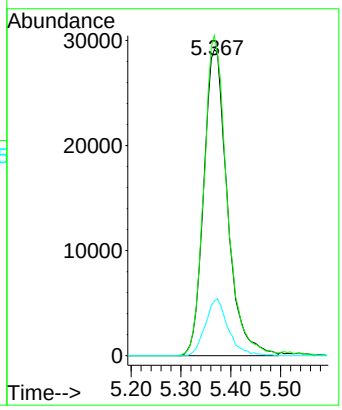




#35
Dibromofluoromethane
Concen: 54.718 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:113 Resp: 9638

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	17.9	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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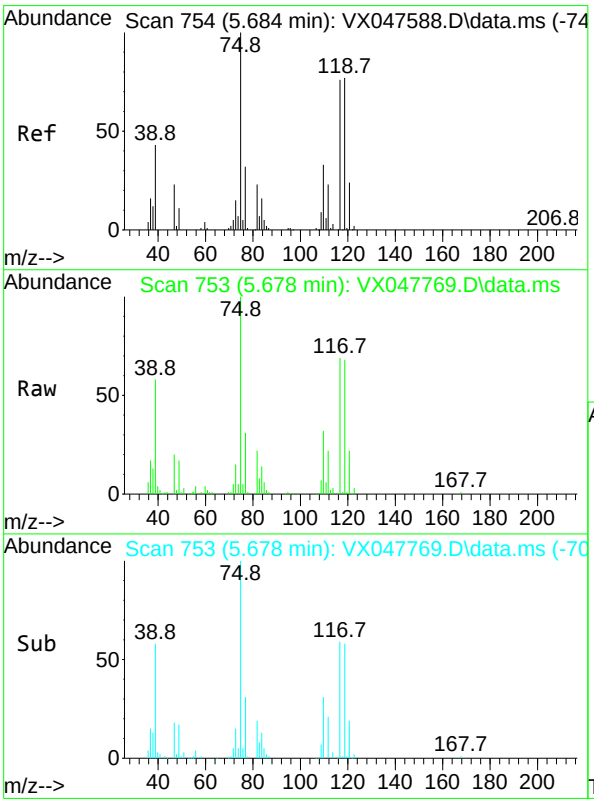
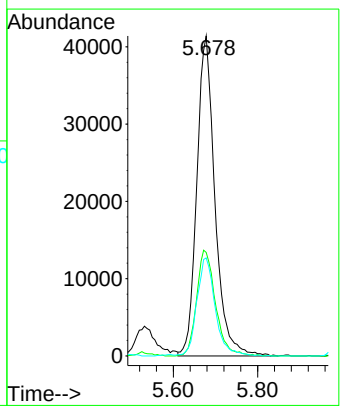
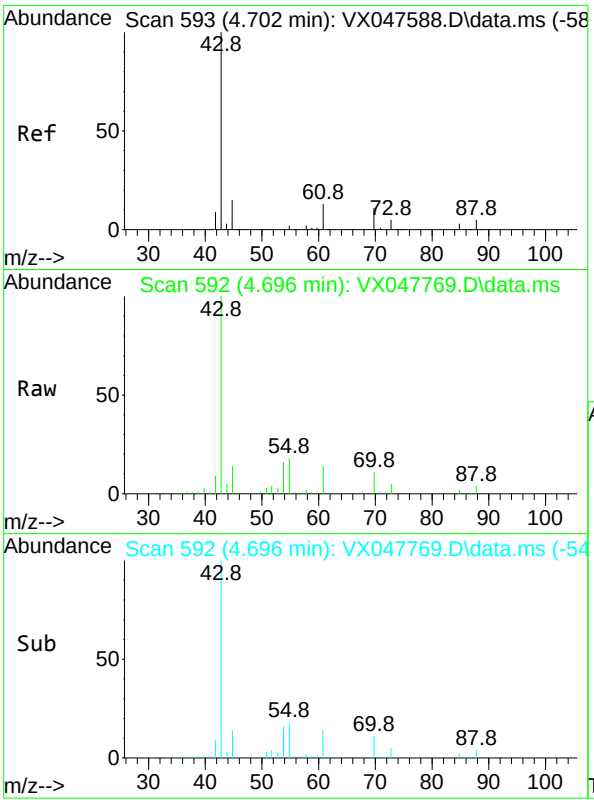


#36
1,1-Dichloropropene
Concen: 48.237 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 124159

Ion	Ratio	Lower	Upper
75	100		
110	34.5	16.7	50.1
77	31.1	24.3	36.5

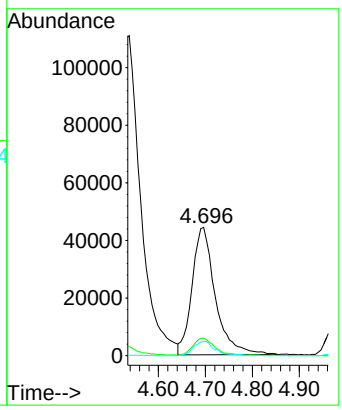




#37
Ethyl Acetate
Concen: 55.069 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 15176

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	10.5	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
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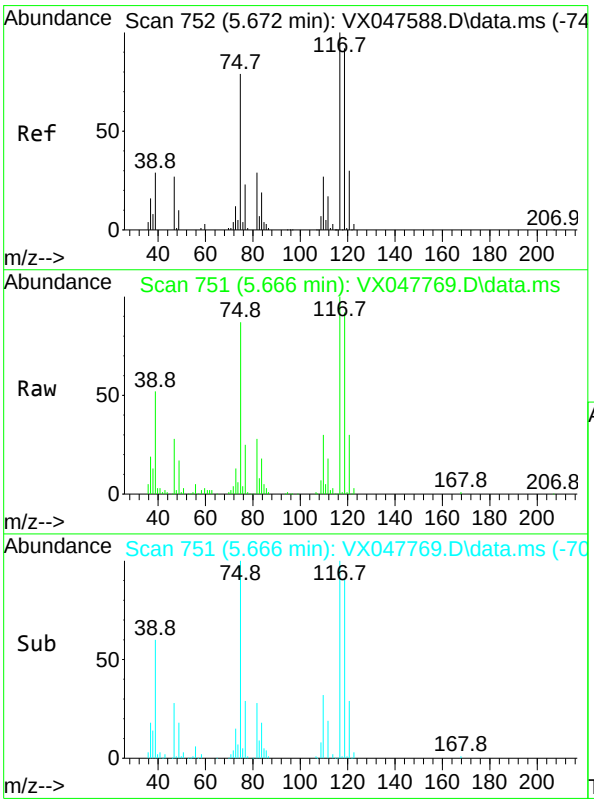
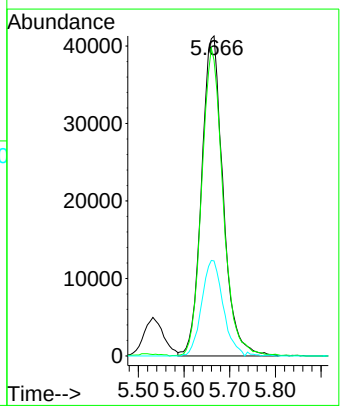
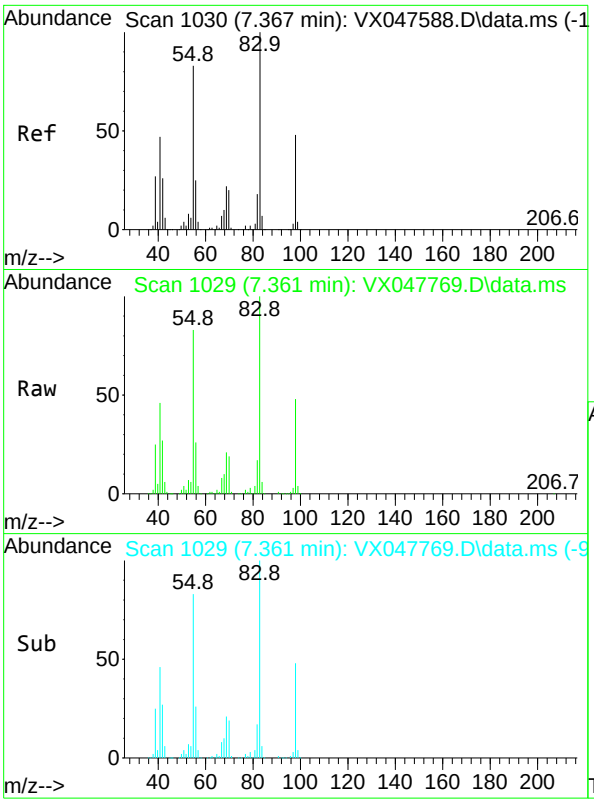


#38
Carbon Tetrachloride
Concen: 48.413 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:117 Resp: 135392

Ion	Ratio	Lower	Upper
117	100		
119	92.2	73.4	110.2
121	29.7	23.8	35.6

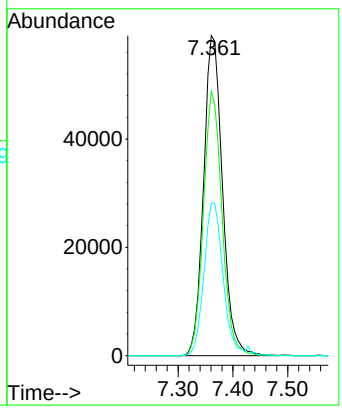




#39
Methylcyclohexane
Concen: 48.420 ug/l
RT: 7.361 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 83 Resp: 14147

Ion	Ratio	Lower	Upper
83	100		
55	82.5	66.4	99.6
98	47.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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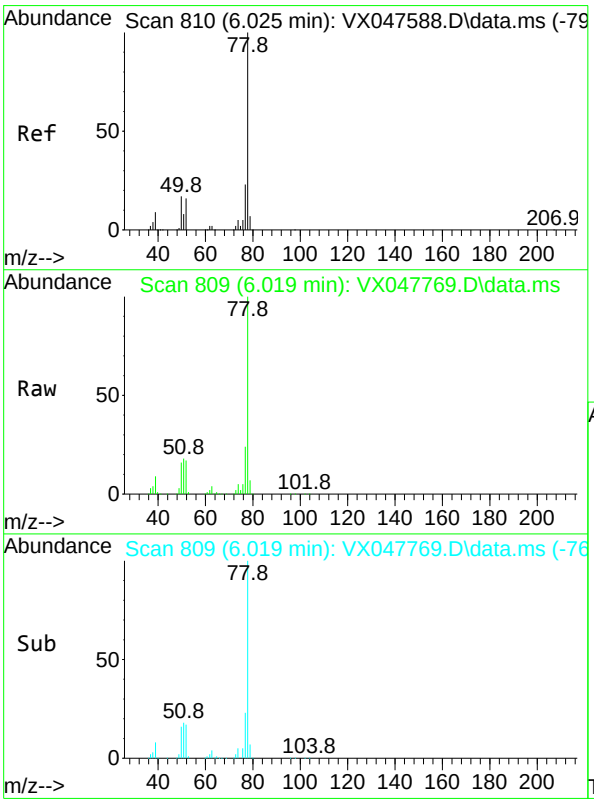
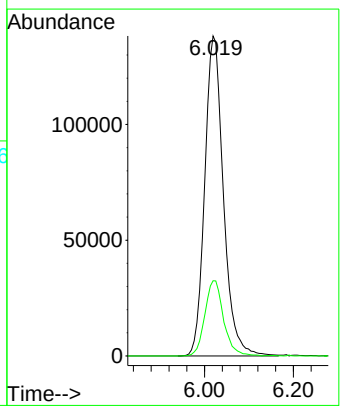
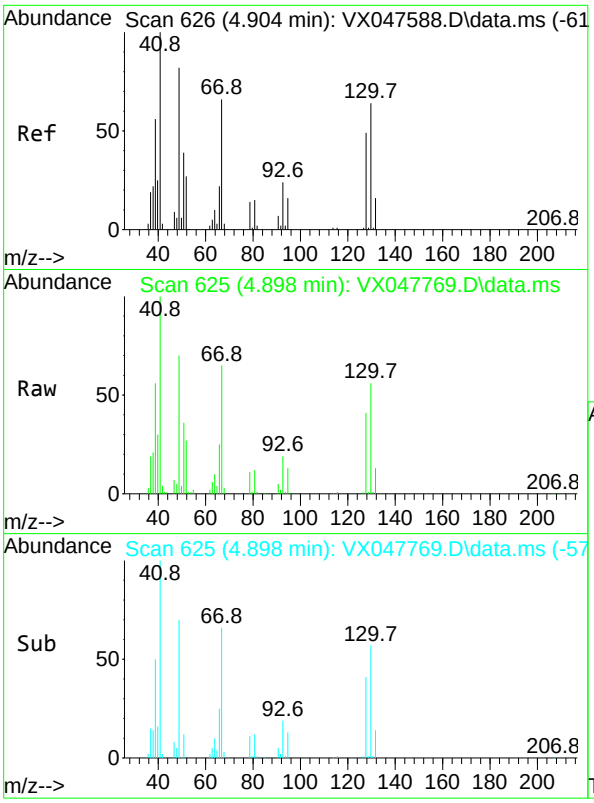


#40
Benzene
Concen: 51.764 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 78 Resp: 404676

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

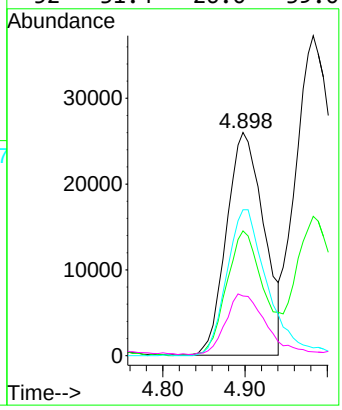




#41
Methacrylonitrile
Concen: 57.784 ug/l
RT: 4.898 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 41 Resp: 8221

Ion	Ratio	Lower	Upper
41	100		
39	57.2	43.3	64.9
67	72.4	58.6	87.8
52	31.4	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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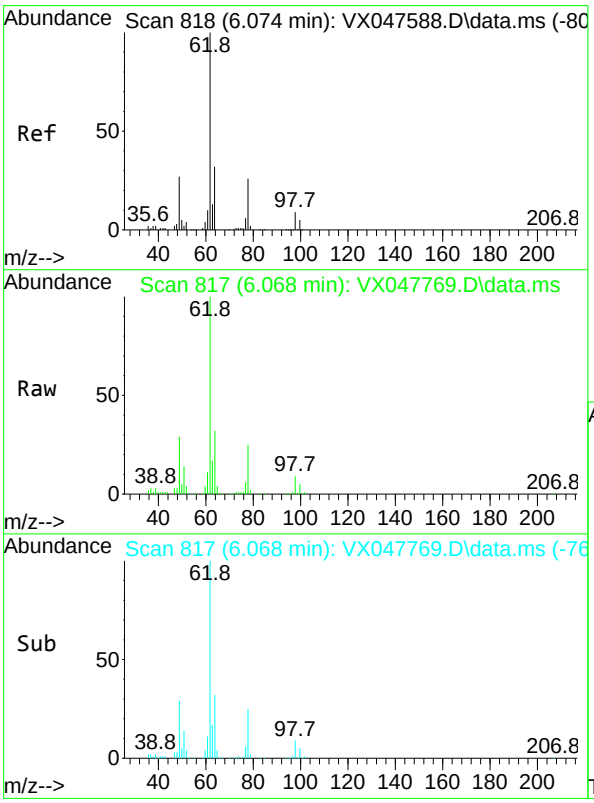
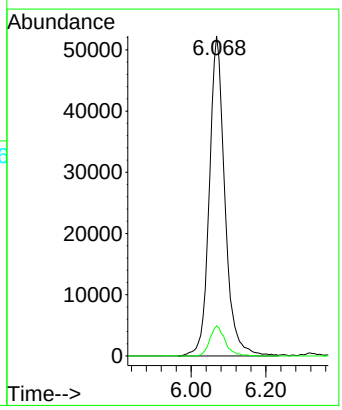
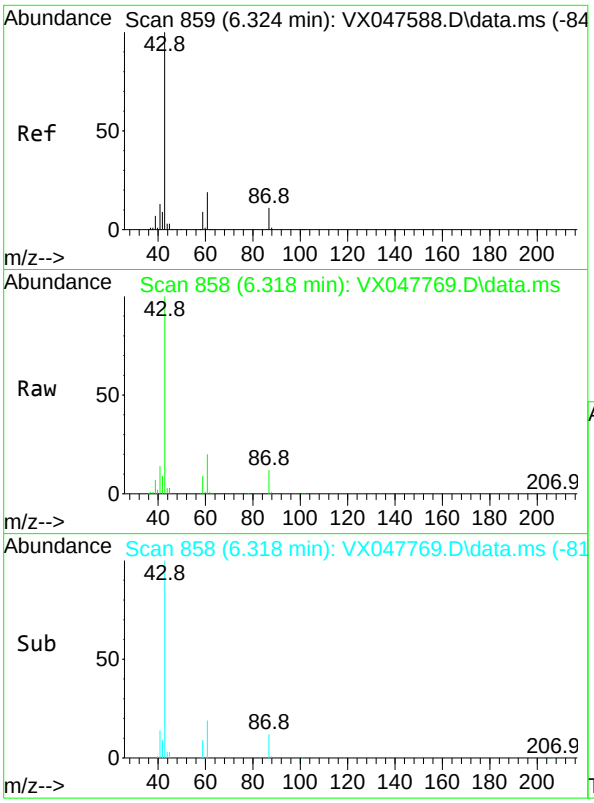


#42
1,2-Dichloroethane
Concen: 50.825 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 62 Resp: 151181

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0

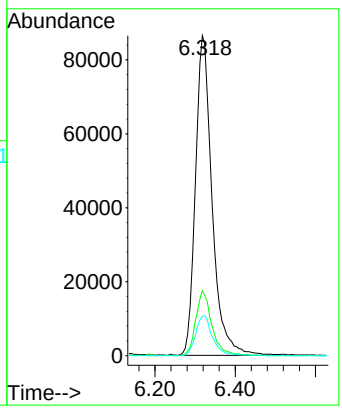




#43
Isopropyl Acetate
Concen: 55.147 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 24926

Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.2	22.8
87	12.6	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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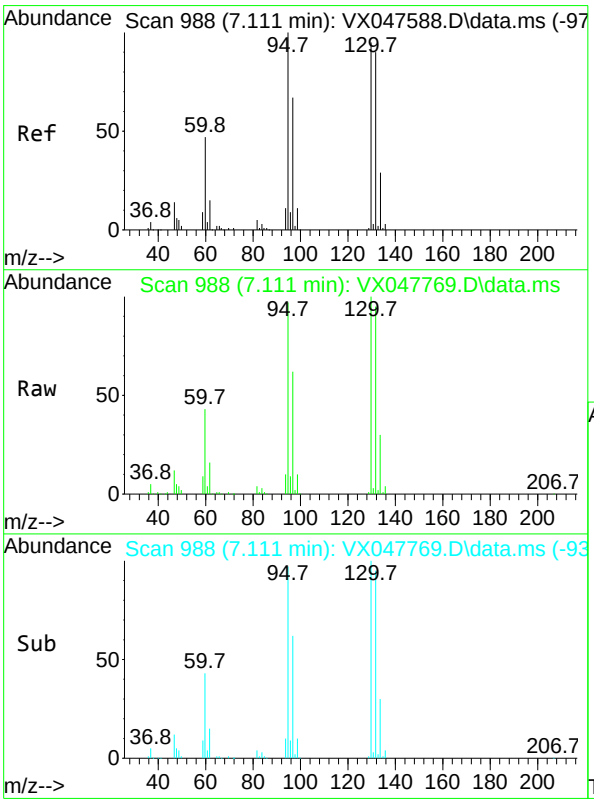
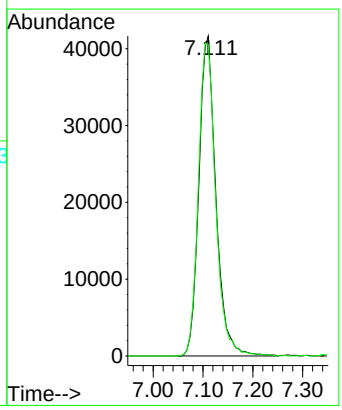
Supervised By :Mahesh Dadoda 09/26/2025

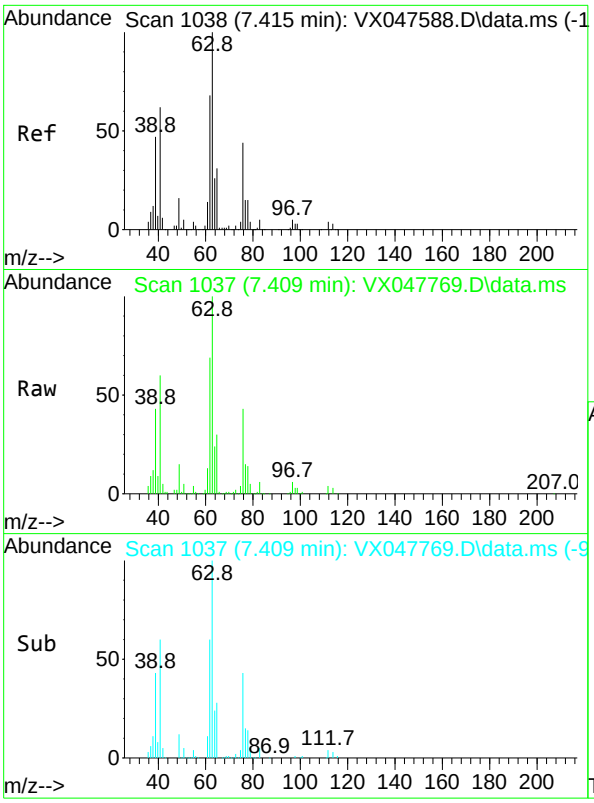


#44
Trichloroethene
Concen: 52.220 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:130 Resp: 98697

Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	210.8

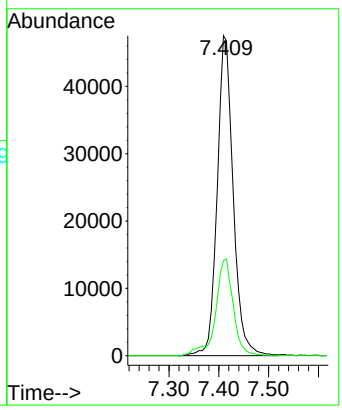




#45
1,2-Dichloropropane
Concen: 52.927 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 63 Resp: 10595

Ion	Ratio	Lower	Upper
63	100		
65	29.7	24.7	37.1



Instrument :
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ClientSampleId :
VSTDCCC050

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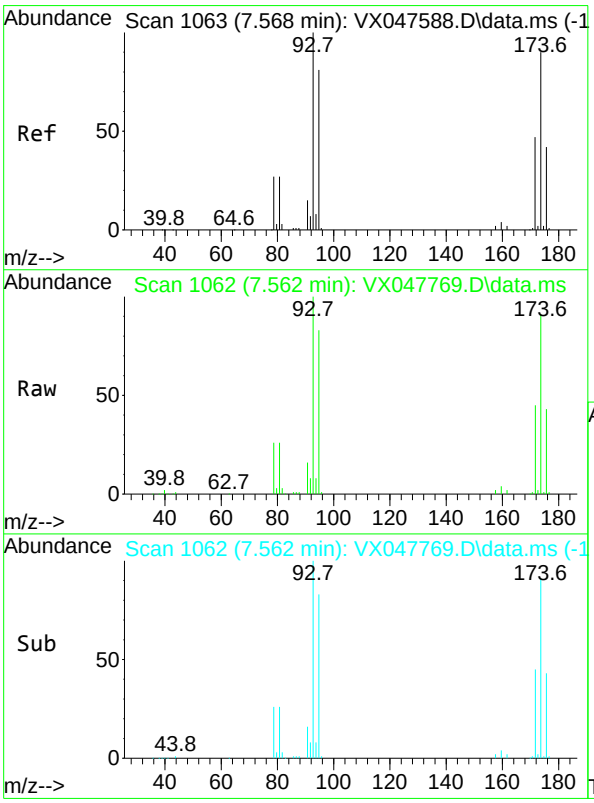
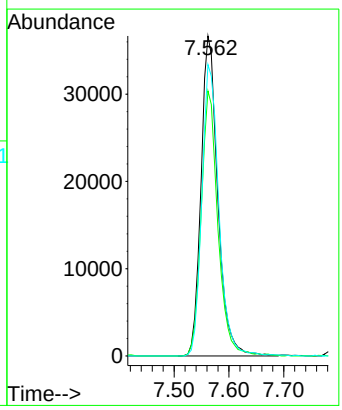
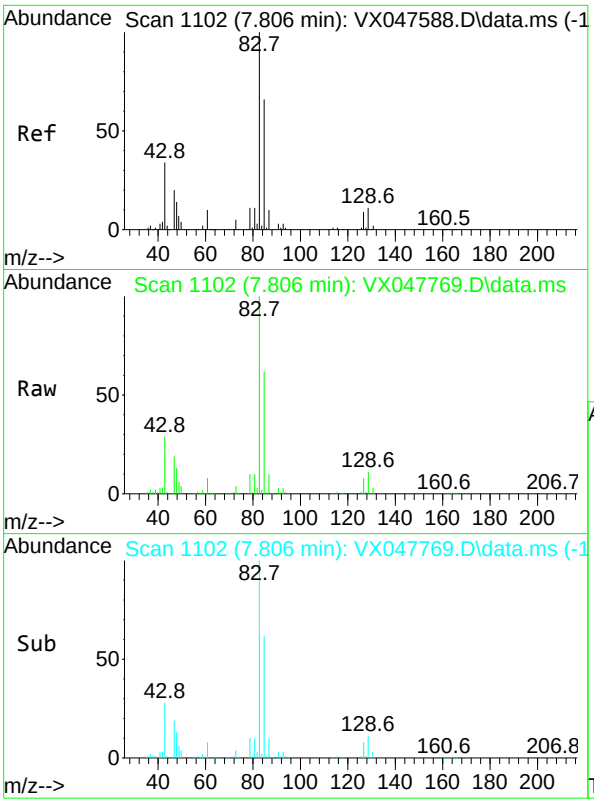


#46
Dibromomethane
Concen: 53.536 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 93 Resp: 77988

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.0	97.6
174	92.3	71.6	107.4

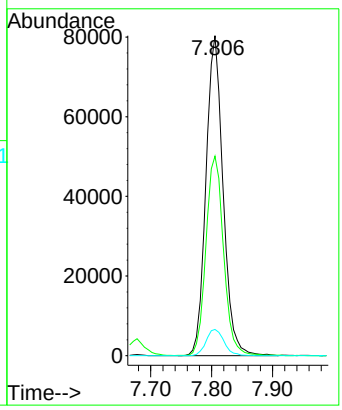




#47
Bromodichloromethane
Concen: 52.239 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 83 Resp: 15703

Ion	Ratio	Lower	Upper
83	100		
85	62.2	52.5	78.7
127	8.2	6.9	10.3



Instrument :
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ClientSampleId :
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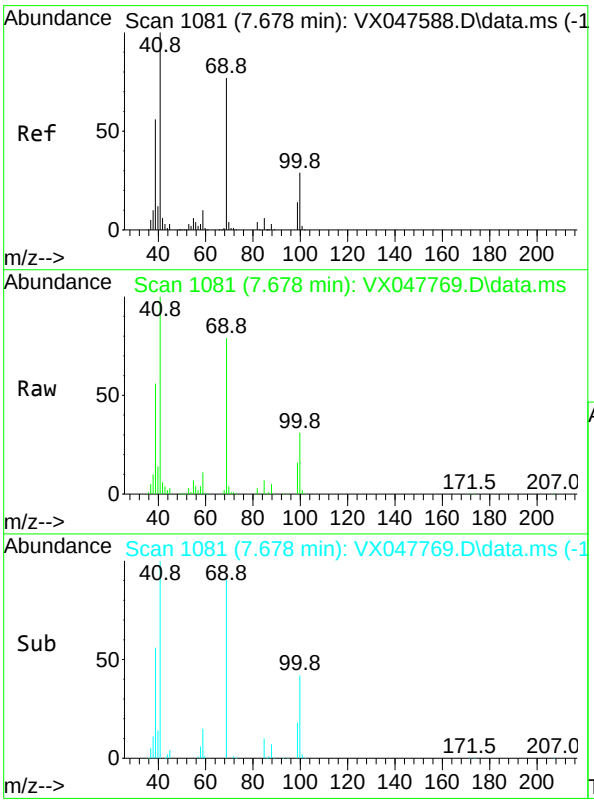
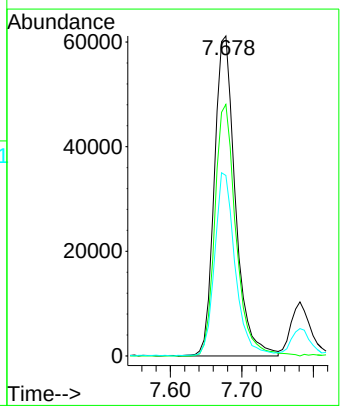
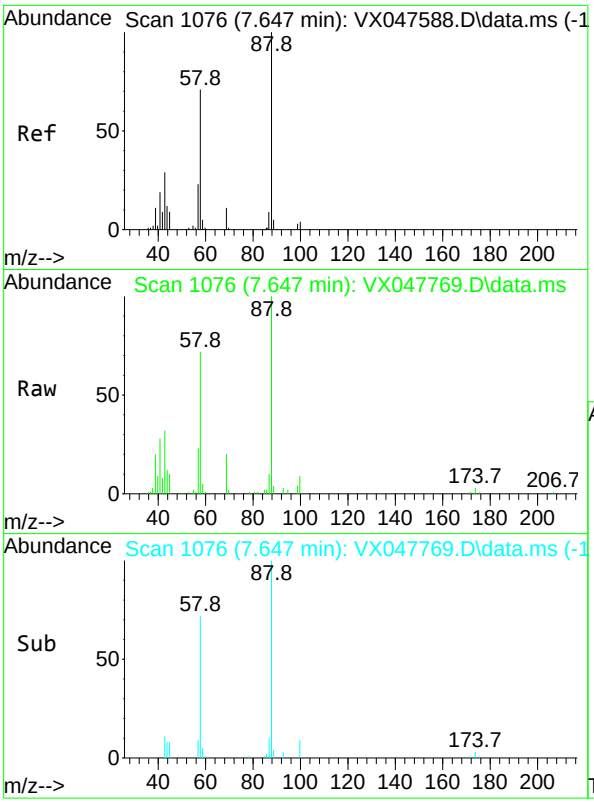


#48
Methyl methacrylate
Concen: 55.541 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 41 Resp: 125046

Ion	Ratio	Lower	Upper
41	100		
69	78.7	61.4	92.2
39	56.0	45.8	68.6

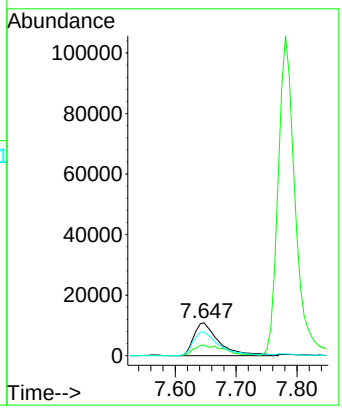




#49
1,4-Dioxane
Concen: 1363.725 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 88 Resp: 3102

Ion	Ratio	Lower	Upper
88	100		
43	39.9	30.2	45.2
58	73.6	59.5	89.3



Instrument :
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ClientSampleId :
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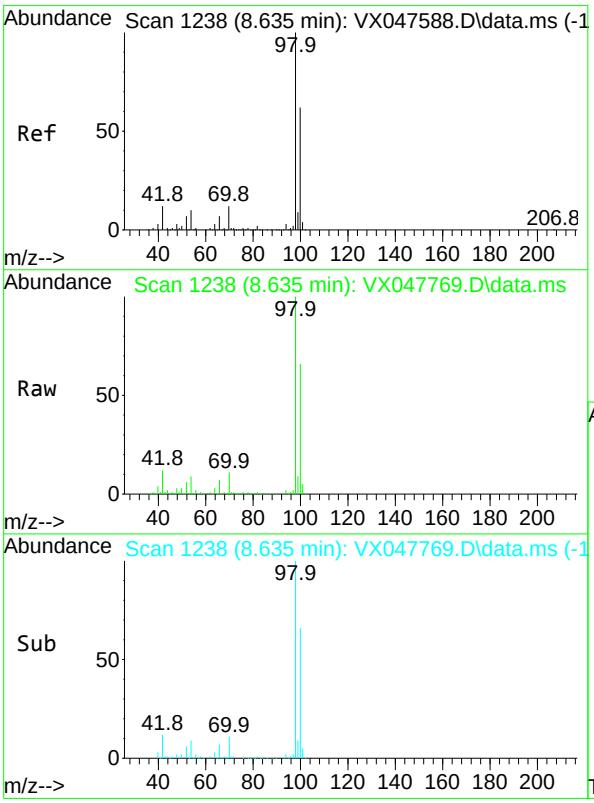
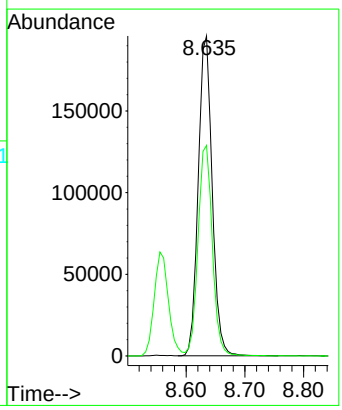
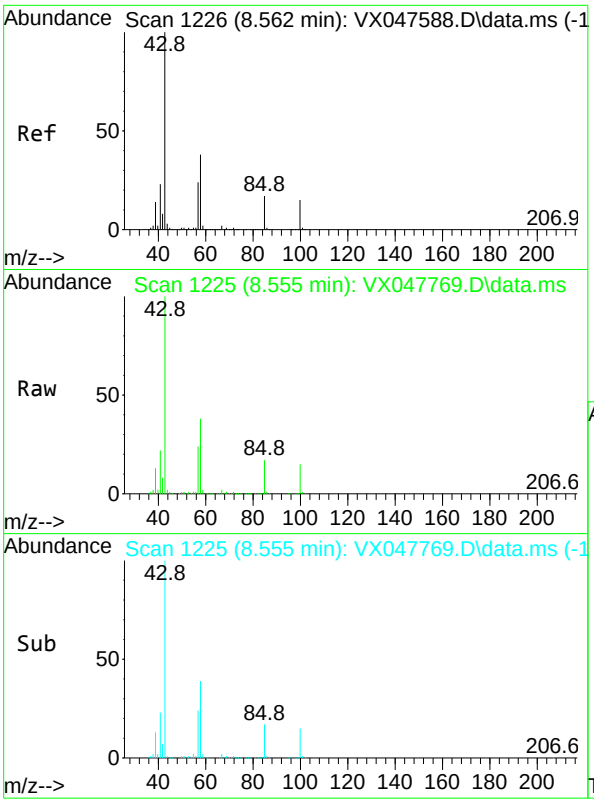


#50
Toluene-d8
Concen: 53.025 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 98 Resp: 323192

Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.0	79.4

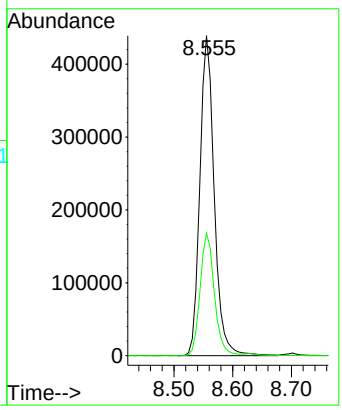




#51
4-Methyl-2-Pentanone
Concen: 296.757 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 74368

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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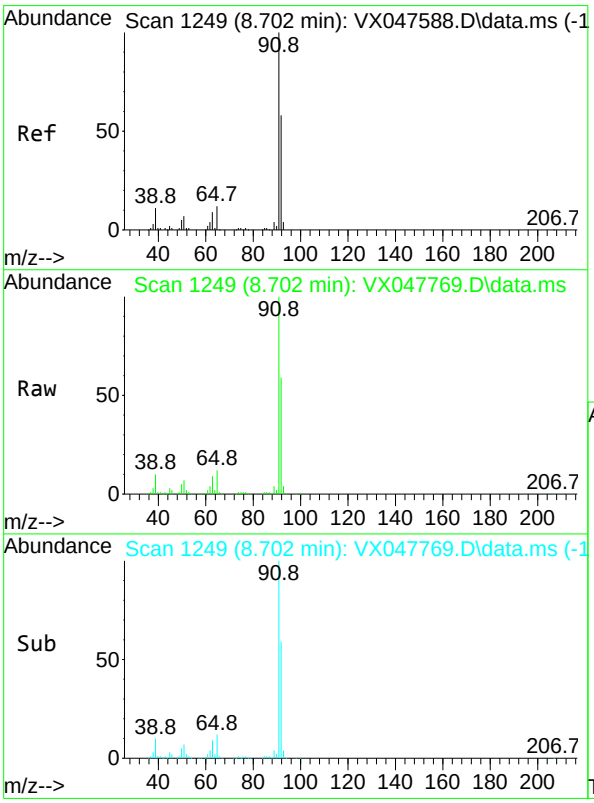
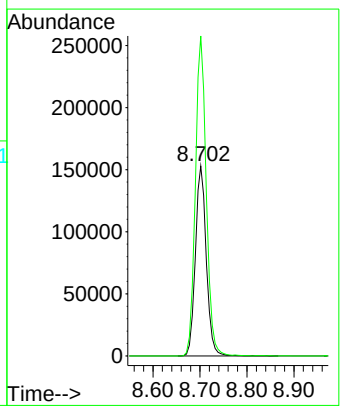
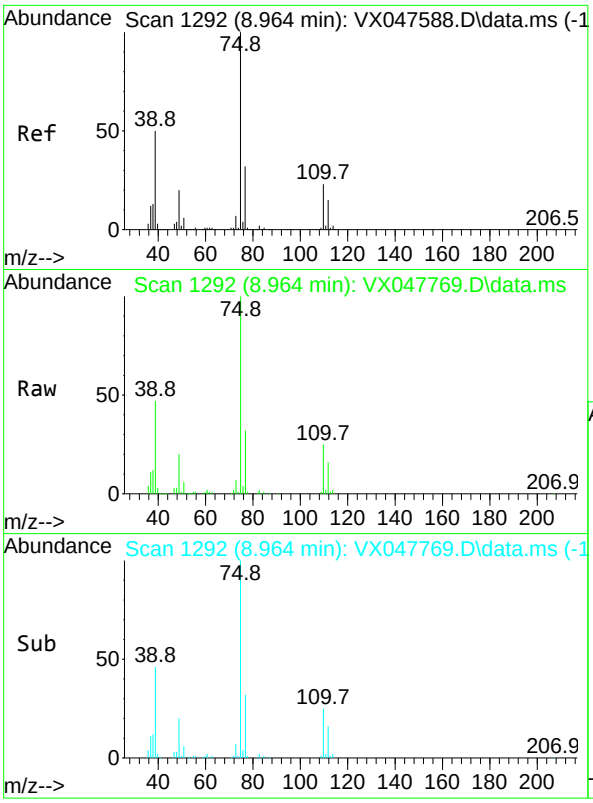


#52
Toluene
Concen: 51.255 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 92 Resp: 246870

Ion	Ratio	Lower	Upper
92	100		
91	168.5	137.1	205.7

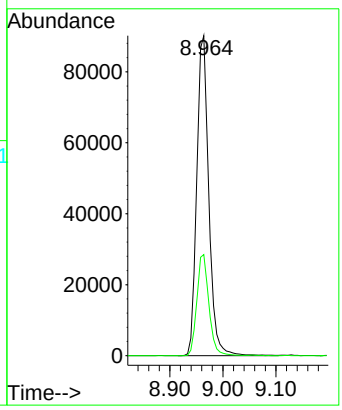




#53
t-1,3-Dichloropropene
Concen: 46.340 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 14208

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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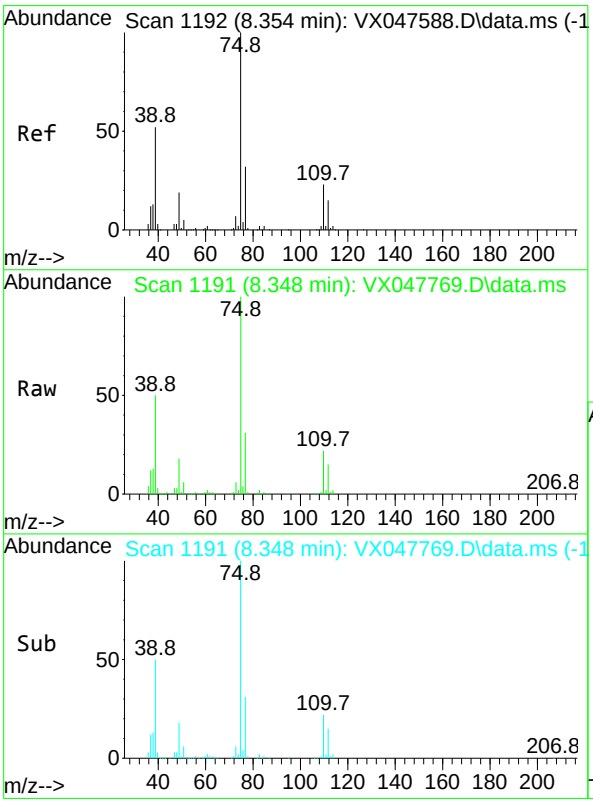
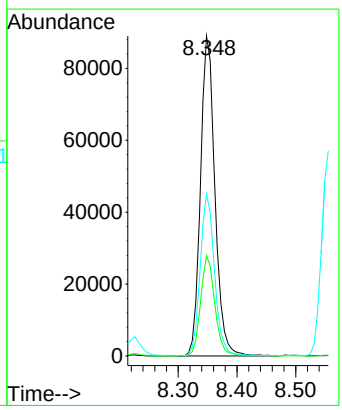
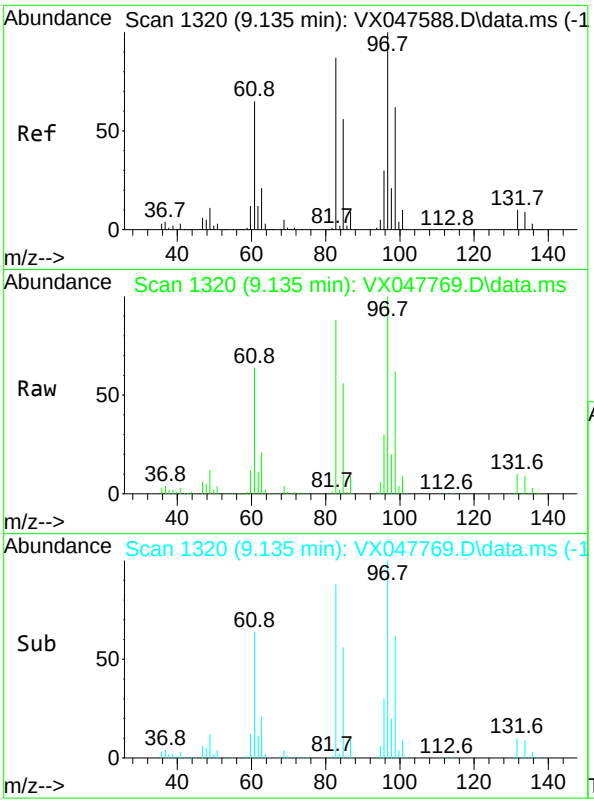


#54
cis-1,3-Dichloropropene
Concen: 46.603 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 152733

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	50.3	41.4	62.2

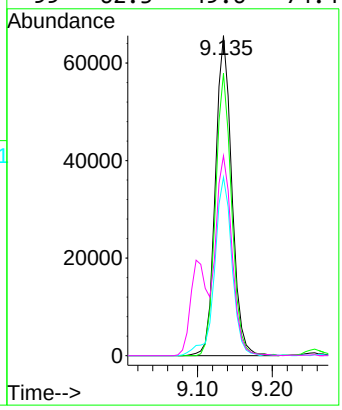




#55
1,1,2-Trichloroethane
Concen: 54.130 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 97 Resp: 10053

Ion	Ratio	Lower	Upper
97	100		
83	88.2	69.6	104.4
85	55.8	45.0	67.6
99	62.3	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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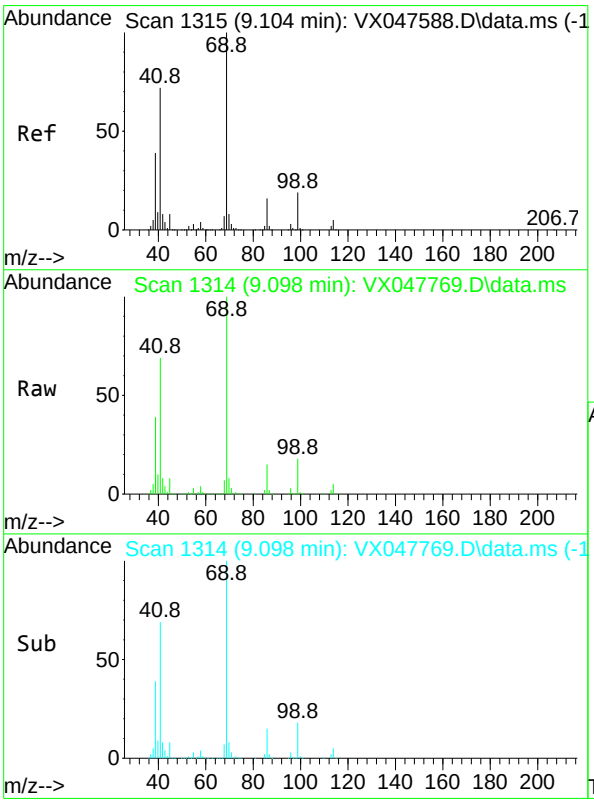
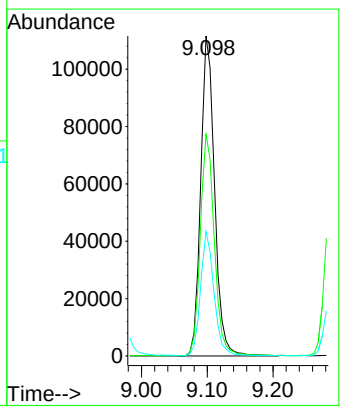
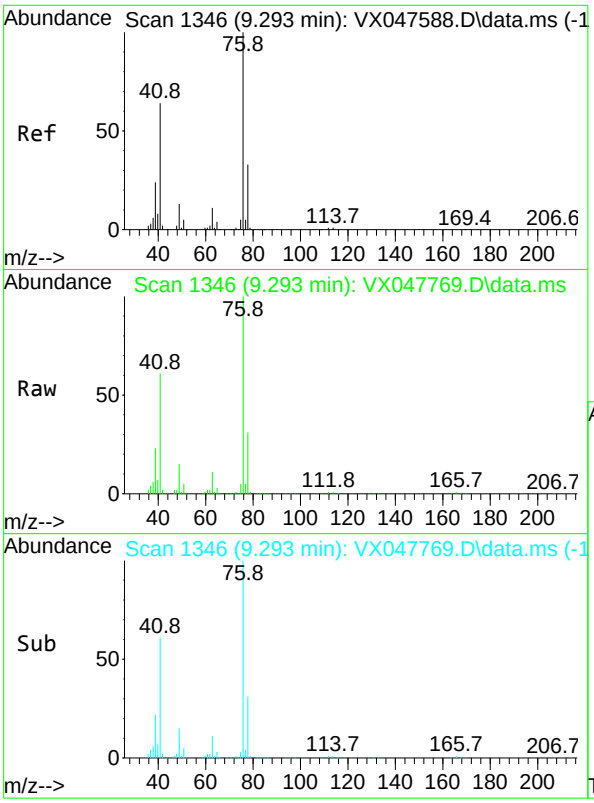


#56
Ethyl methacrylate
Concen: 56.125 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 69 Resp: 163699

Ion	Ratio	Lower	Upper
69	100		
41	70.2	58.6	87.8
39	38.1	31.5	47.3

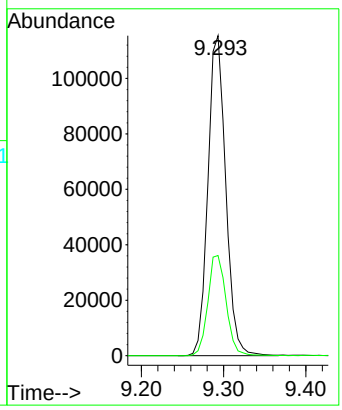




#57
1,3-Dichloropropane
Concen: 54.475 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 76 Resp: 17379

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
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ClientSampleId :
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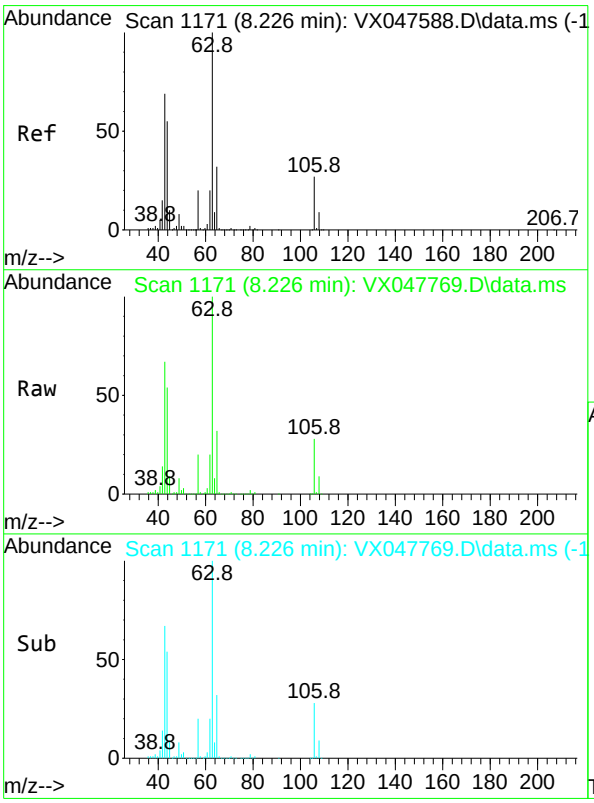
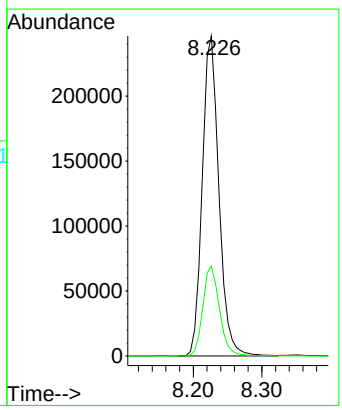
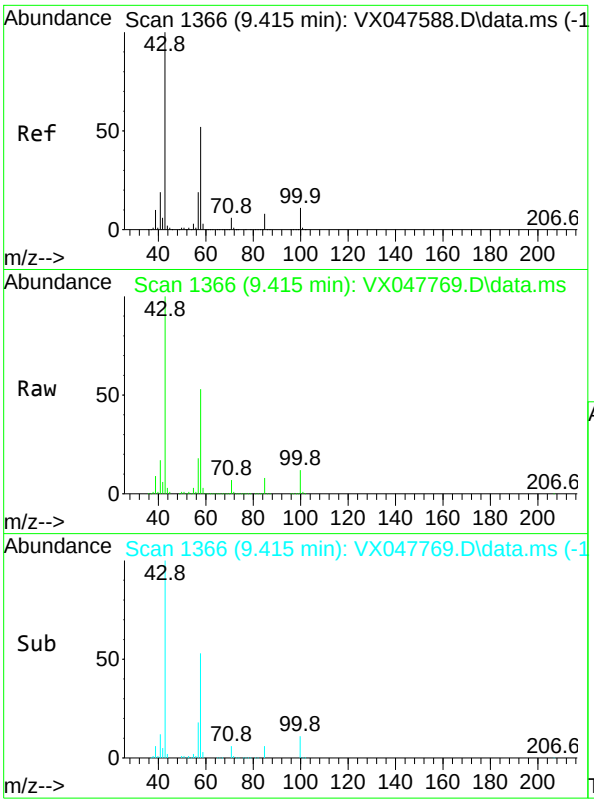


#58
2-Chloroethyl Vinyl ether
Concen: 295.083 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 63 Resp: 416075

Ion	Ratio	Lower	Upper
63	100		
106	28.1	21.9	32.9

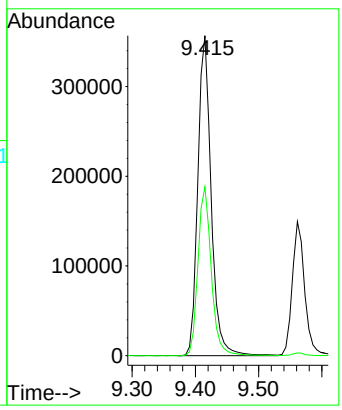




#59
2-Hexanone
Concen: 291.132 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 52399

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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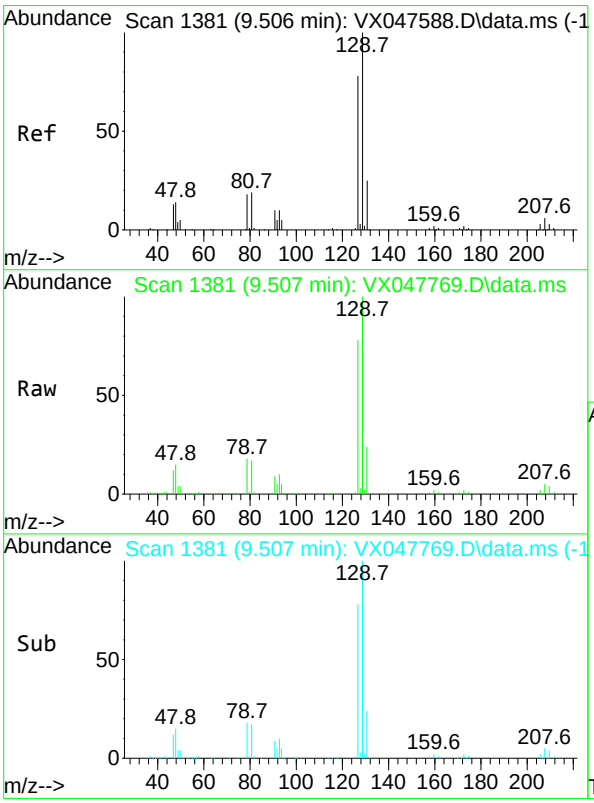
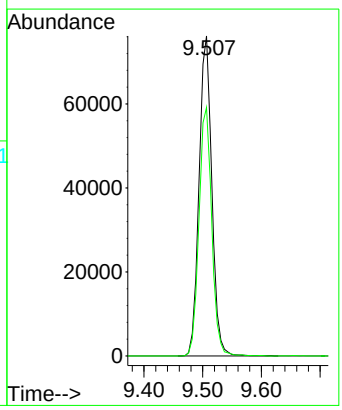
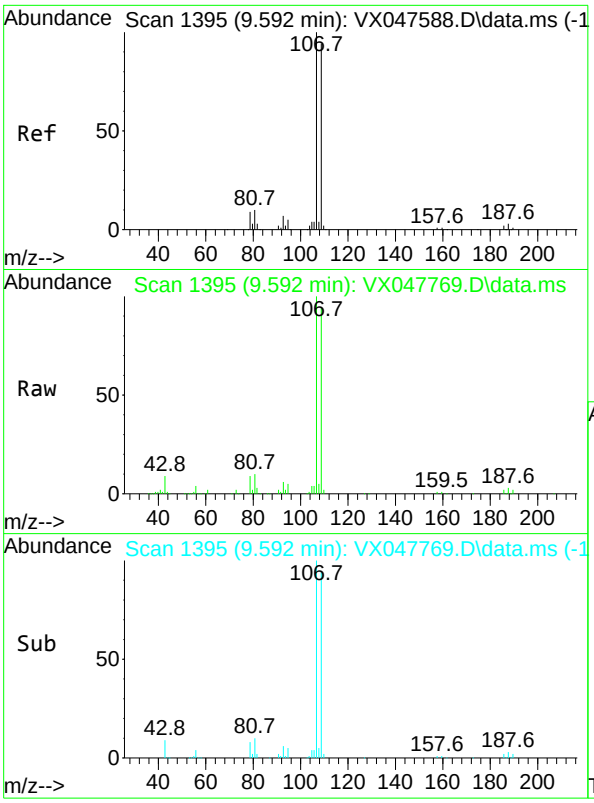


#60
Dibromochloromethane
Concen: 53.426 ug/l
RT: 9.507 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:129 Resp: 114327

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.4	115.2

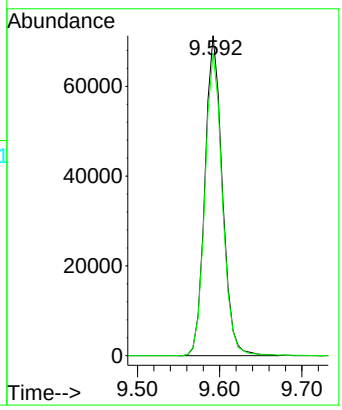




#61
1,2-Dibromoethane
Concen: 55.355 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:107 Resp: 10471

Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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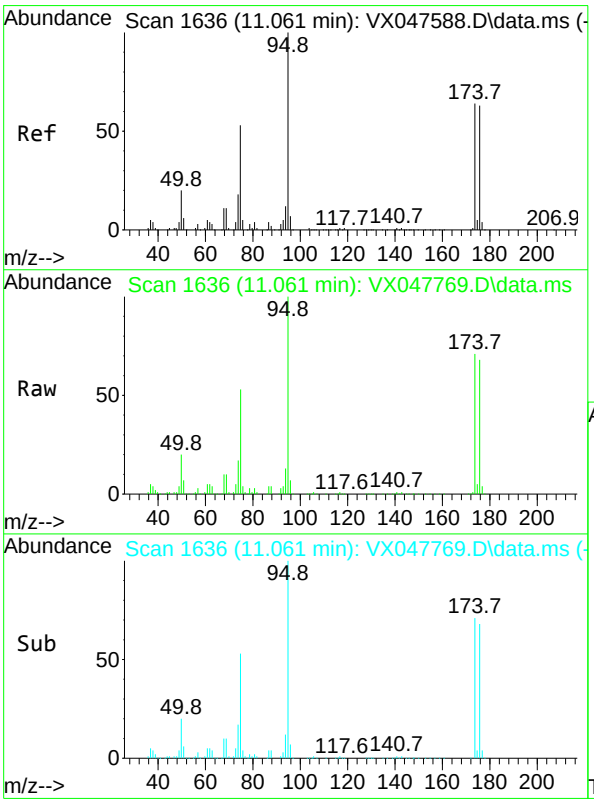
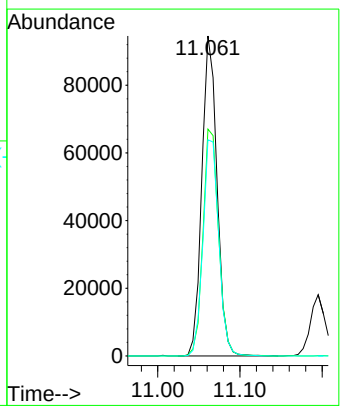
Supervised By :Mahesh Dadoda 09/26/2025

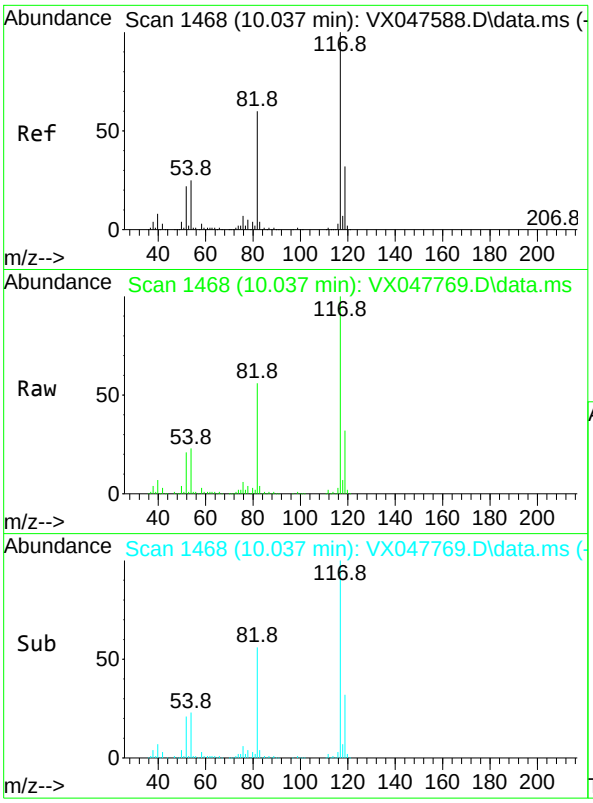


#62
4-Bromofluorobenzene
Concen: 52.449 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 95 Resp: 121324

Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	141.6
176	70.5	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:117 Resp: 23493

Ion	Ratio	Lower	Upper
117	100		
82	56.3	47.8	71.6
119	31.8	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
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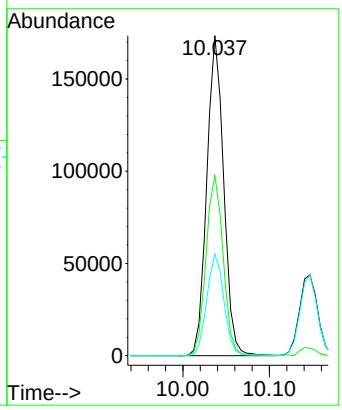
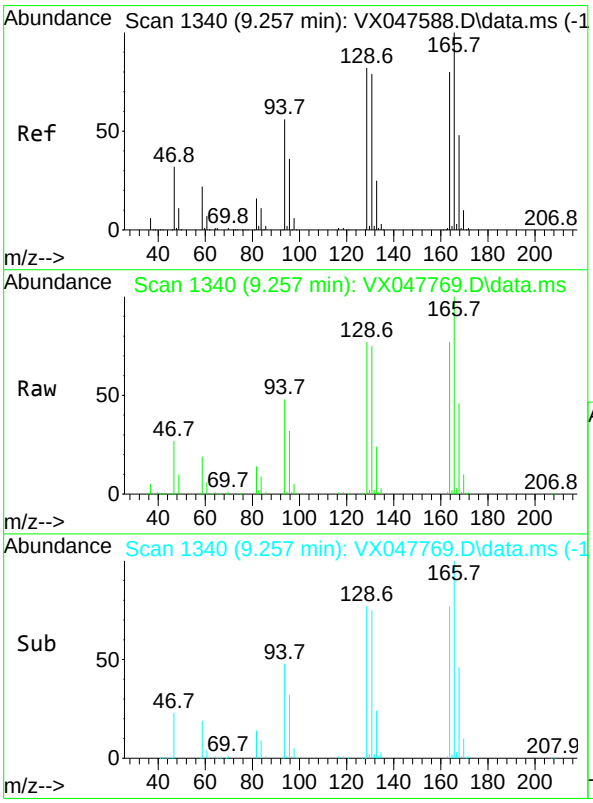
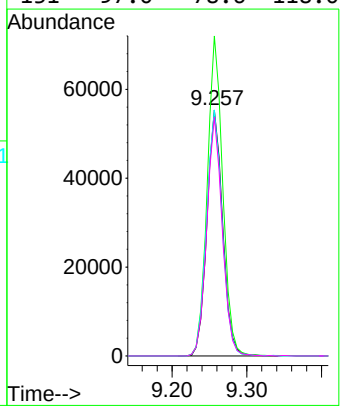


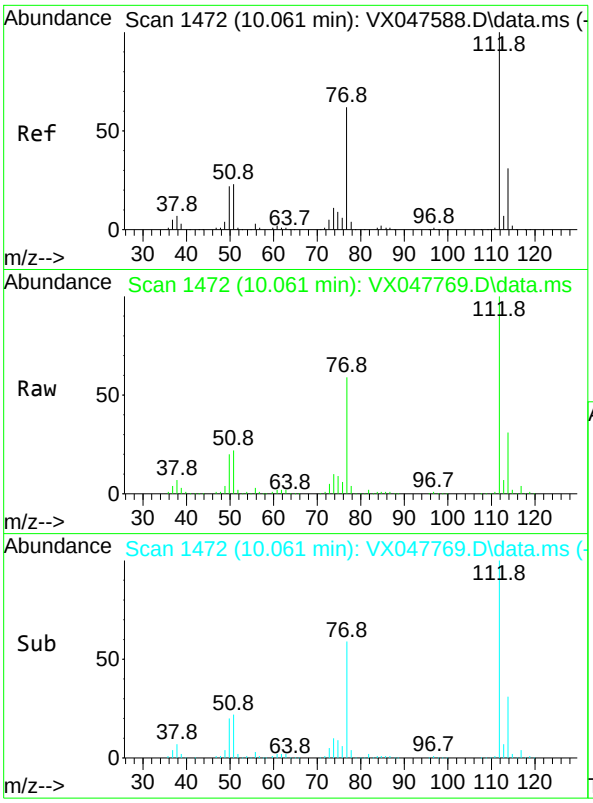


#64
Tetrachloroethene
Concen: 52.796 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:164 Resp: 80858

Ion	Ratio	Lower	Upper
164	100		
166	130.1	100.2	150.2
129	100.1	81.8	122.6
131	97.0	78.6	118.0

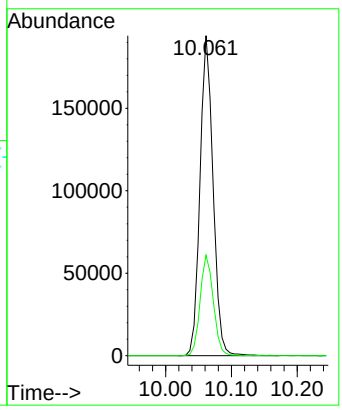




#65
Chlorobenzene
Concen: 50.214 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:112 Resp: 26800

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7



Instrument :
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ClientSampleId :
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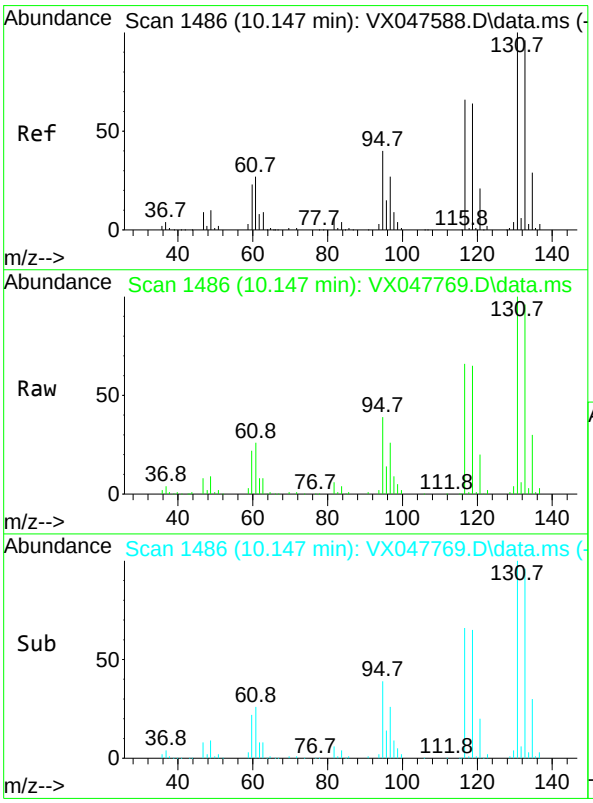
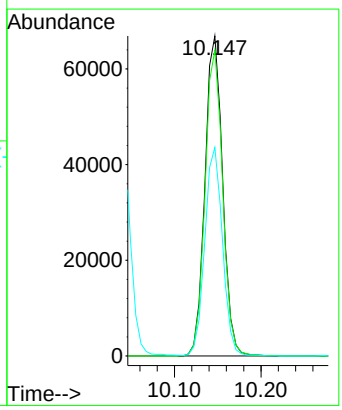
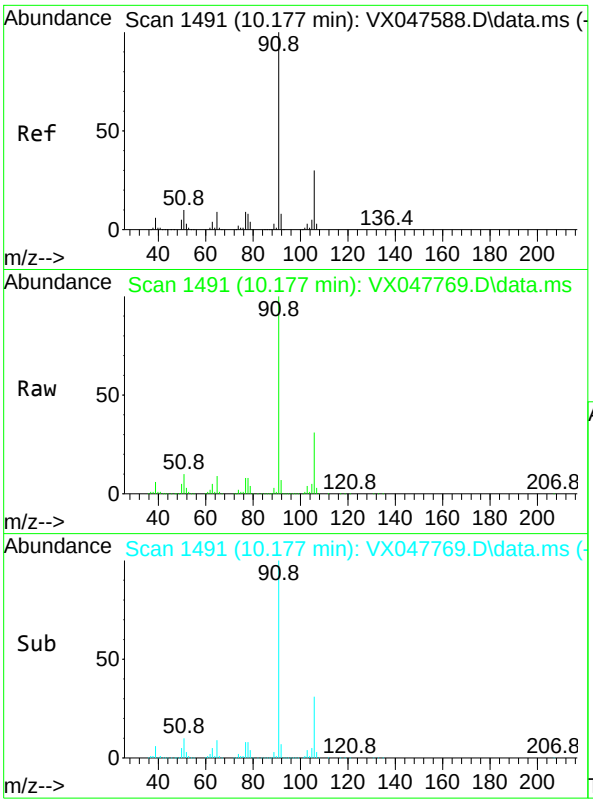


#66
1,1,1,2-Tetrachloroethane
Concen: 51.406 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:131 Resp: 94676

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	142.0
119	65.4	32.0	96.0

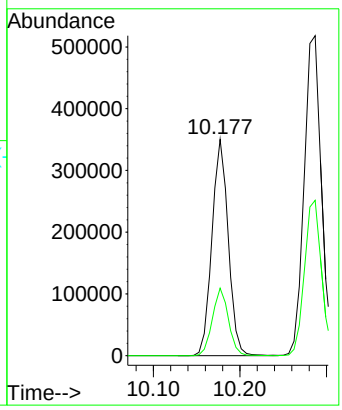




#67
Ethyl Benzene
Concen: 49.776 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 91 Resp: 45838

Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.3	36.5



Instrument :
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ClientSampleId :
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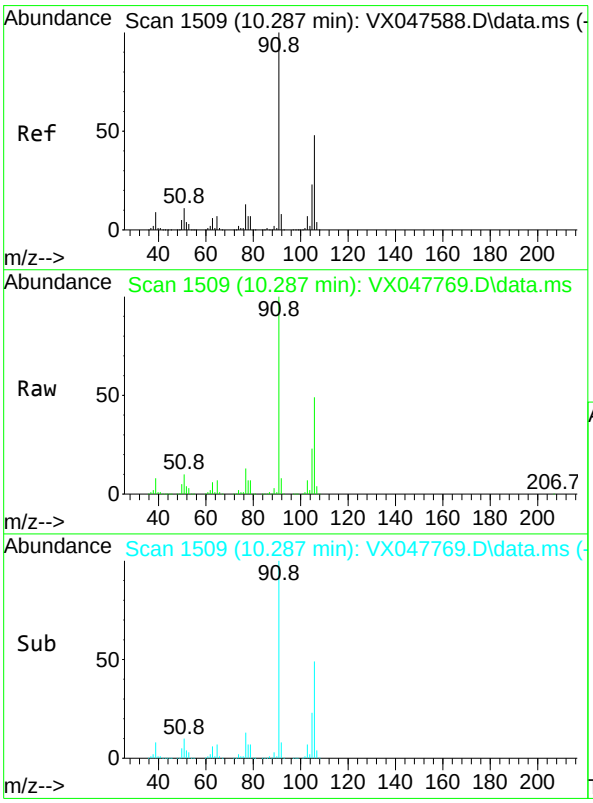
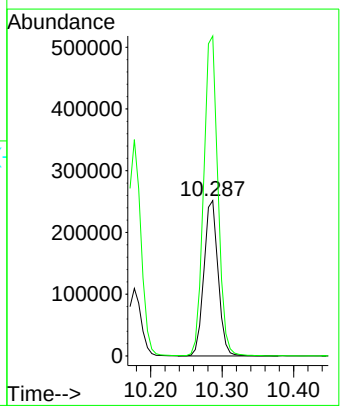
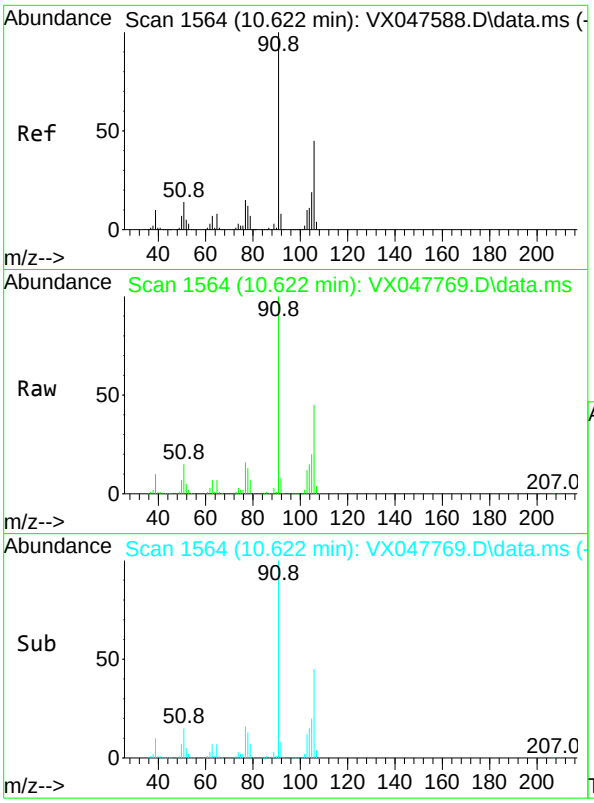


#68
m/p-Xylenes
Concen: 100.941 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:106 Resp: 345991

Ion	Ratio	Lower	Upper
106	100		
91	207.9	167.8	251.8

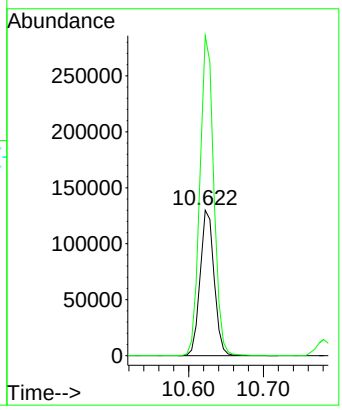




#69
o-Xylene
Concen: 51.084 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:106 Resp: 16936

Ion	Ratio	Lower	Upper
106	100		
91	218.4	111.1	333.4



Instrument :
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ClientSampleId :
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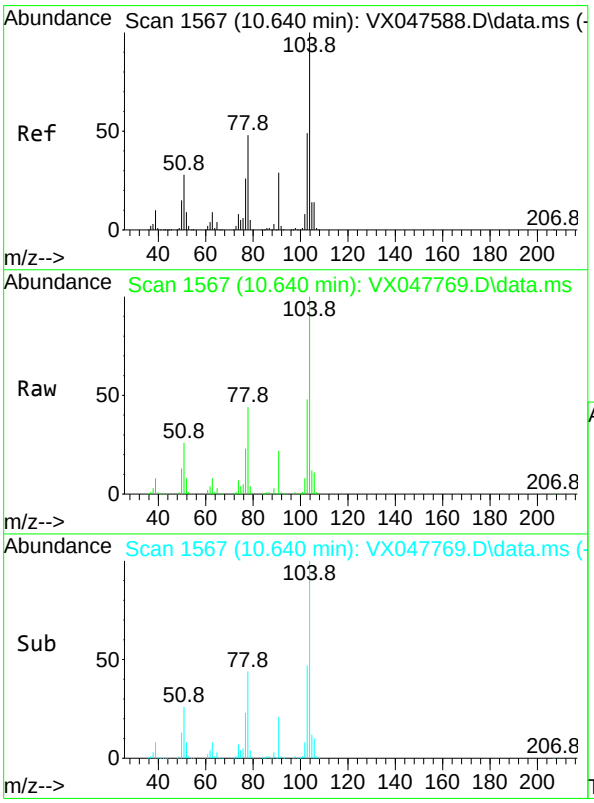
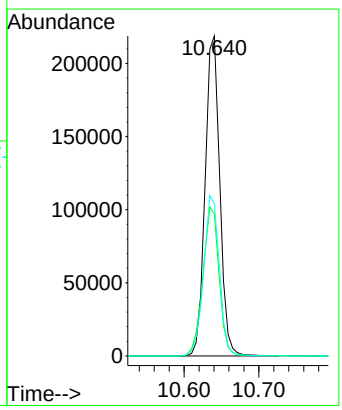
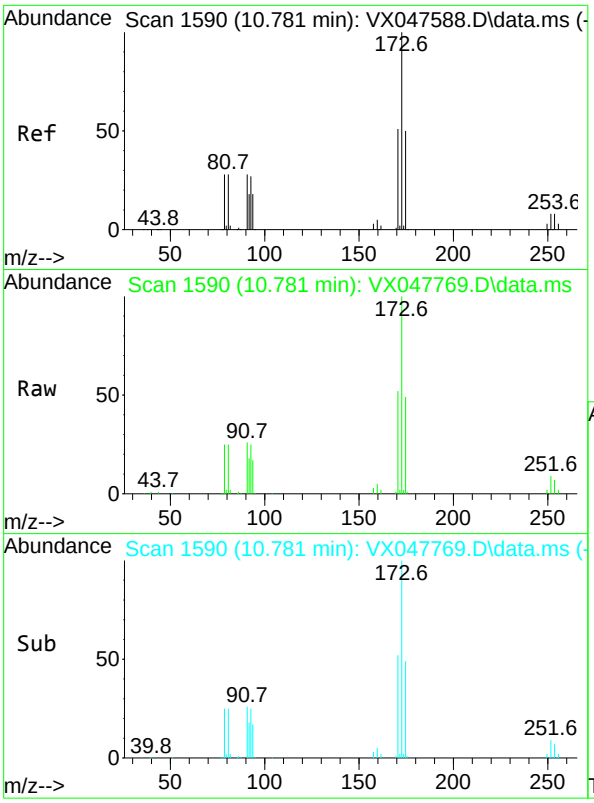


#70
Styrene
Concen: 51.423 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:104 Resp: 298721

Ion	Ratio	Lower	Upper
104	100		
78	51.5	43.1	64.7
103	53.7	43.1	64.7

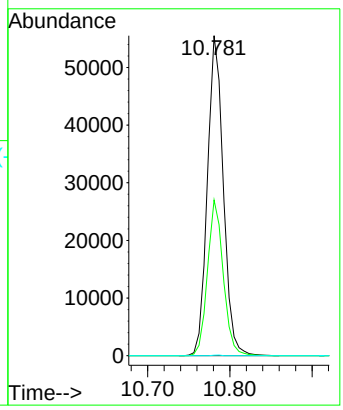




#71
Bromoform
Concen: 54.272 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:173 Resp: 7463

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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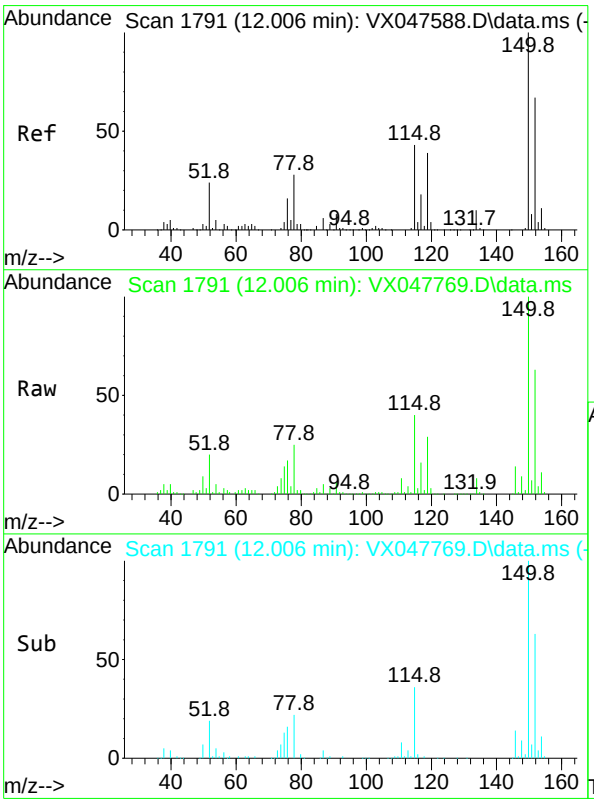
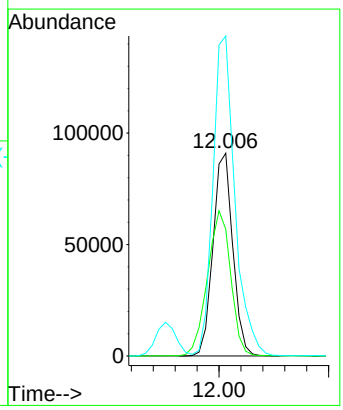
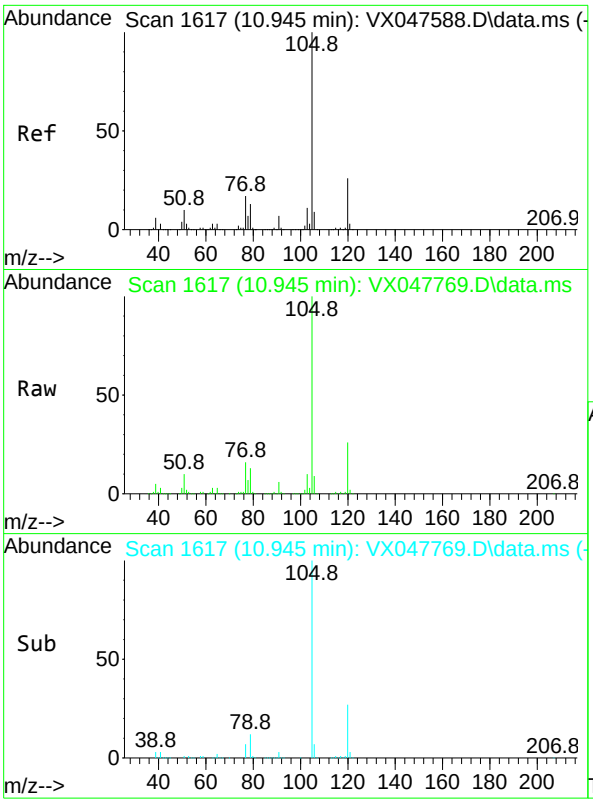


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:152 Resp: 114093

Ion	Ratio	Lower	Upper
152	100		
115	84.3	44.9	134.5
150	174.6	0.0	352.0

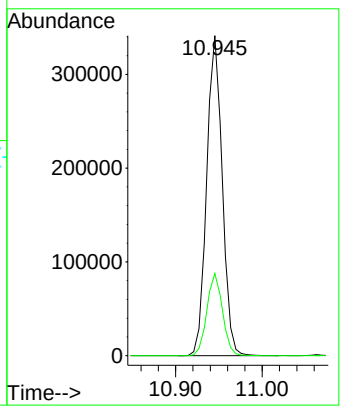




#73
Isopropylbenzene
Concen: 49.073 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:105 Resp: 42566

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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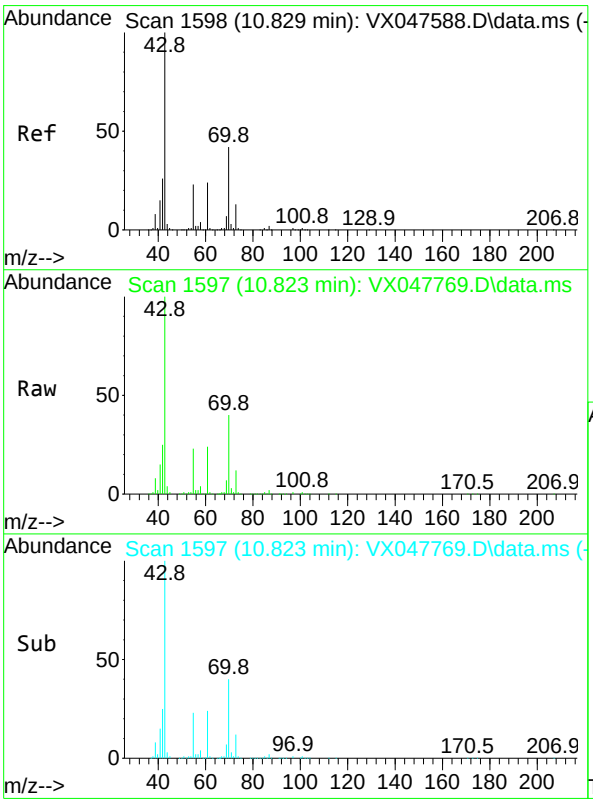
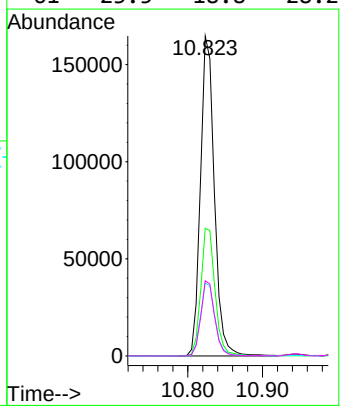
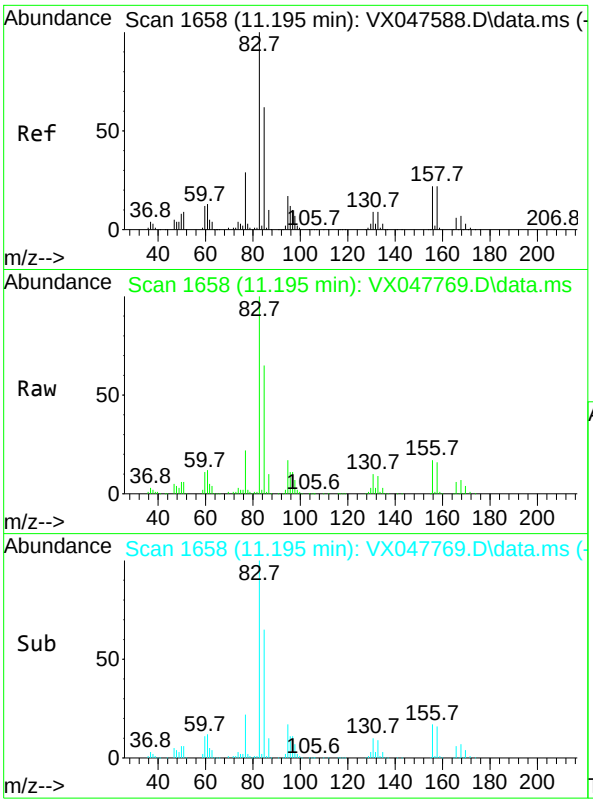


#74
N-amyl acetate
Concen: 53.964 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 213456

Ion	Ratio	Lower	Upper
43	100		
70	40.8	32.0	48.0
55	23.8	18.9	28.3
61	23.5	18.8	28.2

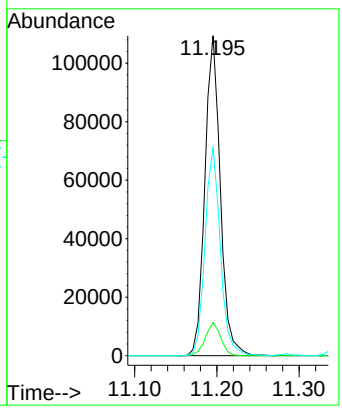




#75
1,1,2,2-Tetrachloroethane
Concen: 54.463 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 83 Resp: 14293

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	64.7	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
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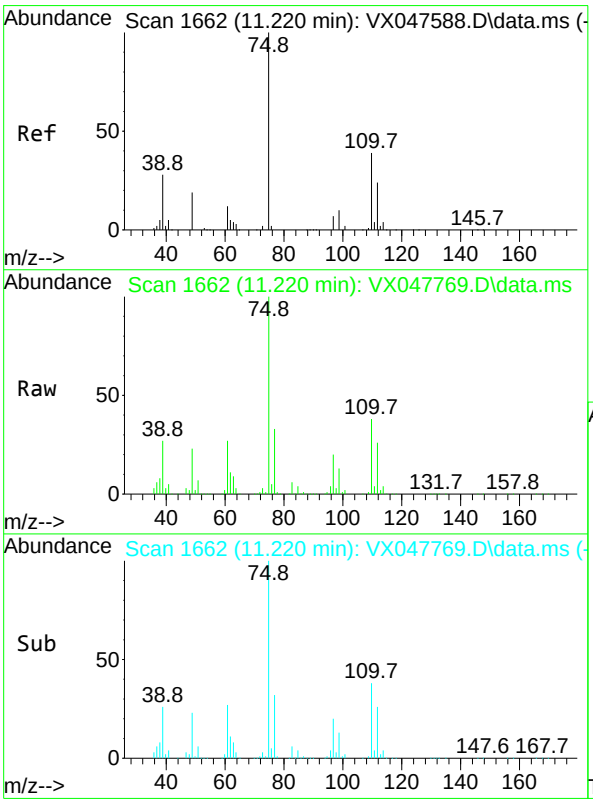
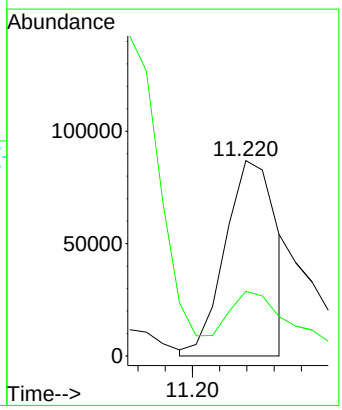
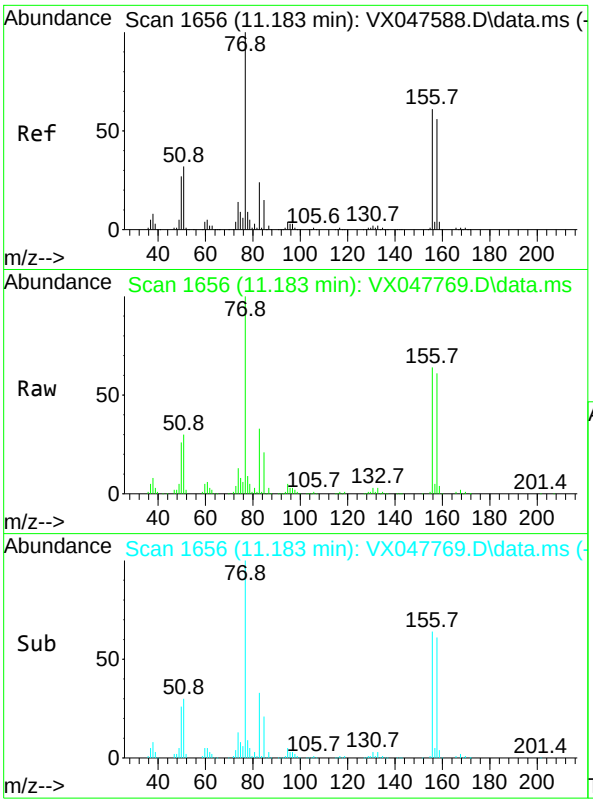


#76
1,2,3-Trichloropropane
Concen: 49.071 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 113356

Ion	Ratio	Lower	Upper
75	100		
77	44.1	18.8	56.4





#77
Bromobenzene
Concen: 50.743 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:156 Resp: 10840

Ion	Ratio	Lower	Upper
156	100		
77	171.5	89.7	269.1
158	95.7	47.9	143.6

Instrument :
MSVOA_X
ClientSampleId :
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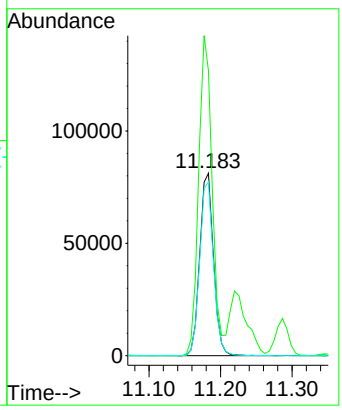
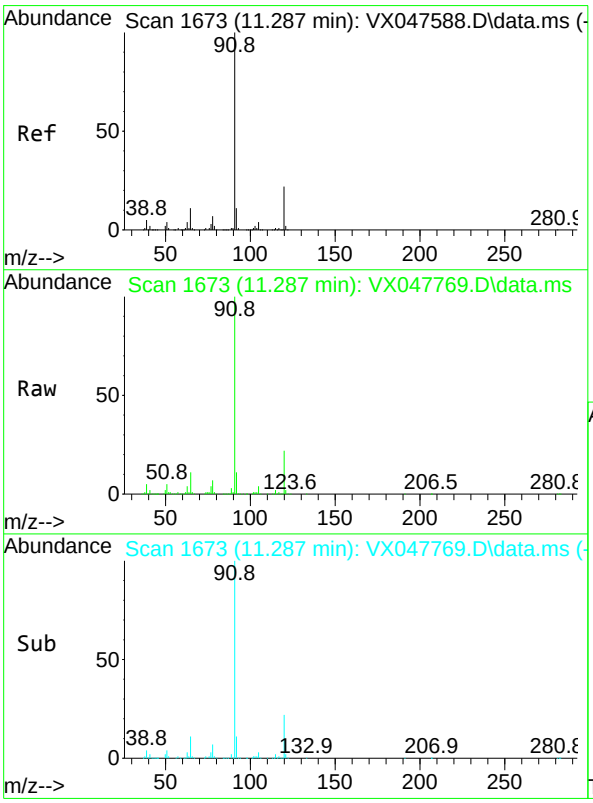
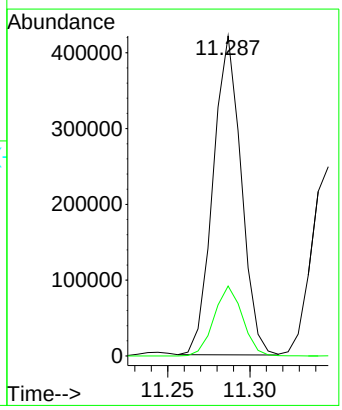


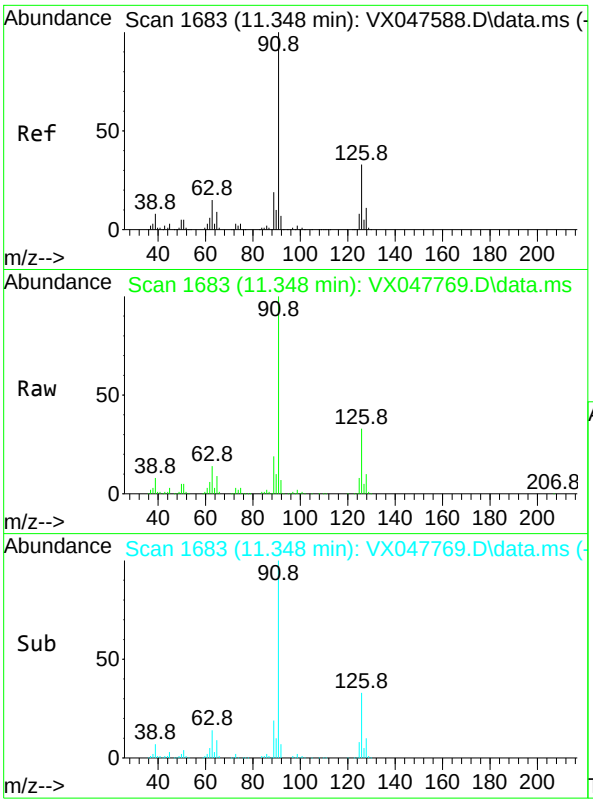


#78
n-propylbenzene
Concen: 48.849 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 91 Resp: 500892

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1

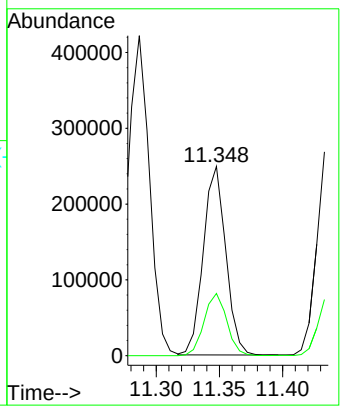




#79
2-Chlorotoluene
Concen: 49.053 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 91 Resp: 30806

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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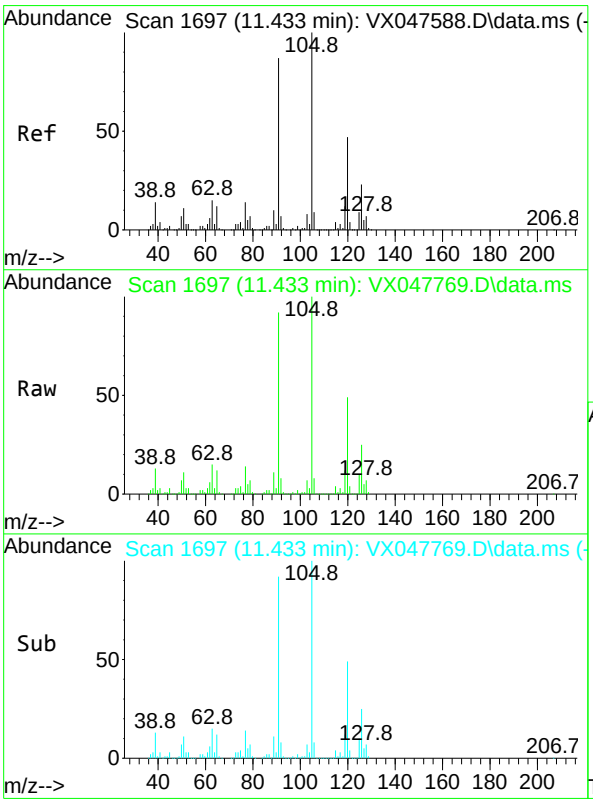
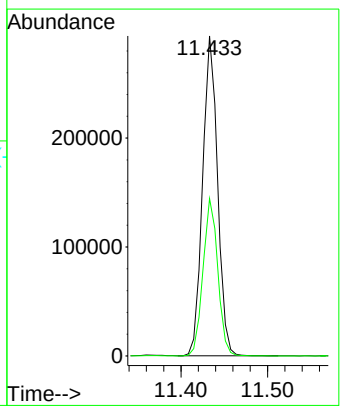
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

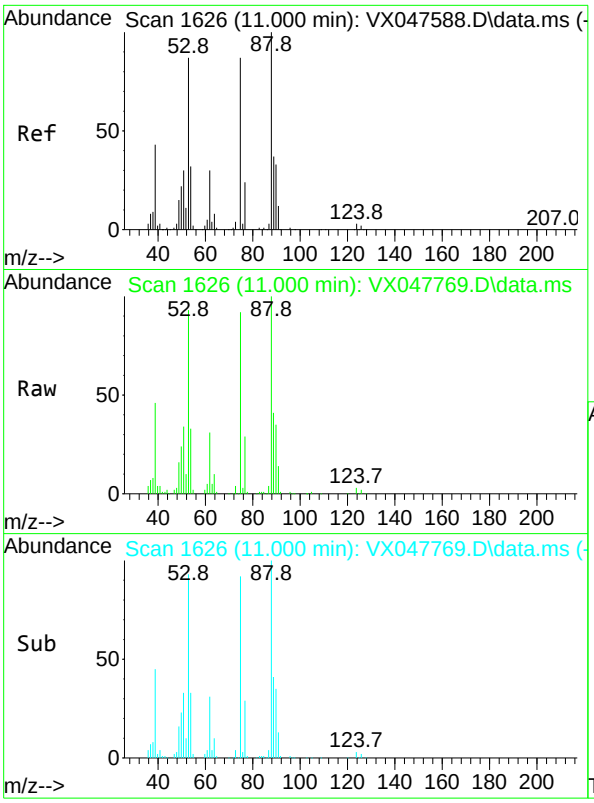


#80
1,3,5-Trimethylbenzene
Concen: 49.271 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:105 Resp: 351131

Ion	Ratio	Lower	Upper
105	100		
120	48.8	23.6	70.8

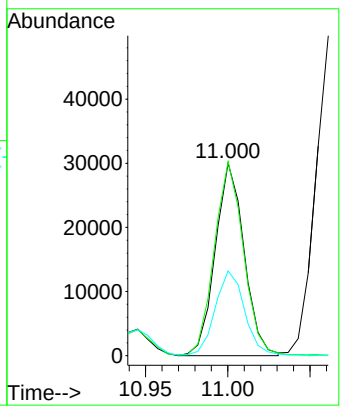




#81
trans-1,4-Dichloro-2-butene
Concen: 40.467 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 3665

Ion	Ratio	Lower	Upper
75	100		
53	101.3	83.4	125.2
89	45.1	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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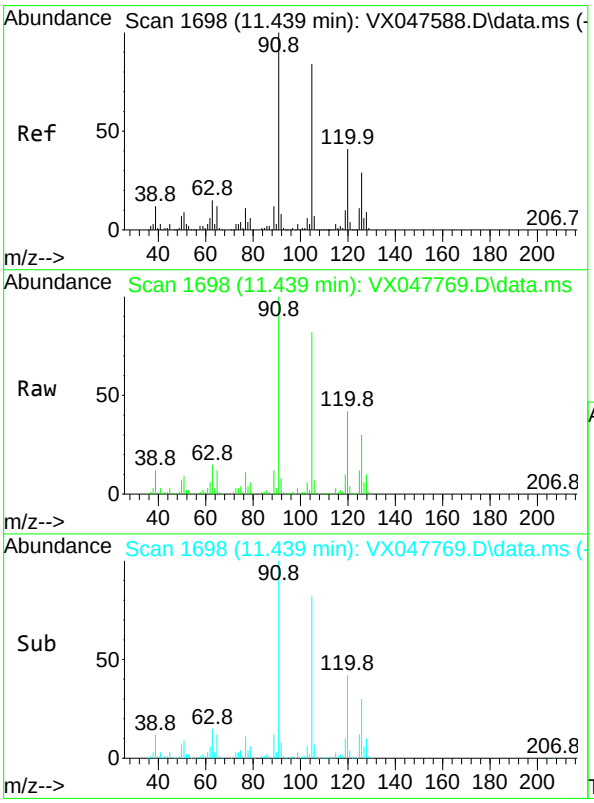
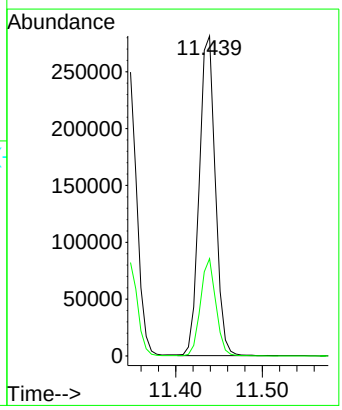
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

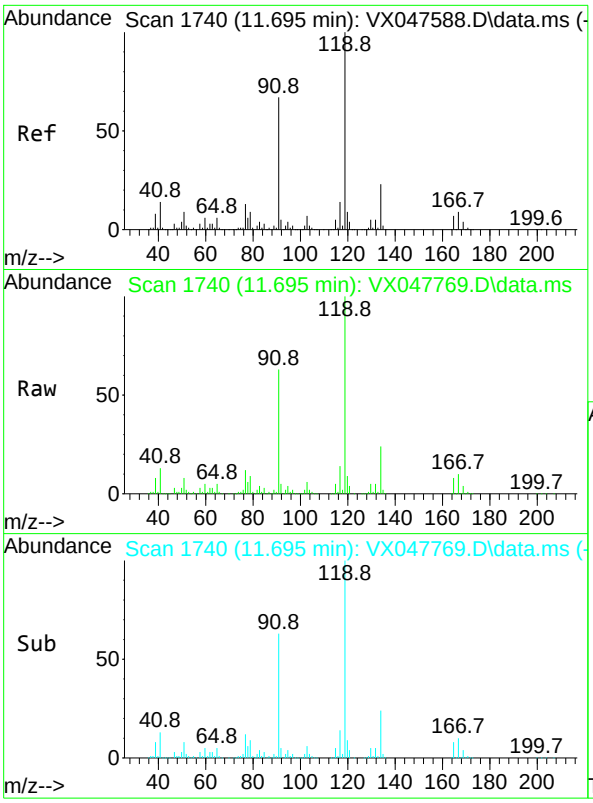


#82
4-Chlorotoluene
Concen: 48.802 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 91 Resp: 361984

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.2	42.6

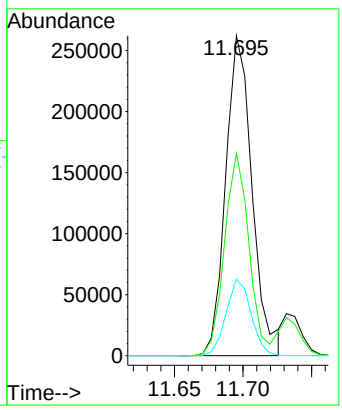




#83
tert-Butylbenzene
Concen: 48.261 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:119 Resp: 35207

Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.6	88.8
134	22.6	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 09/25/2025
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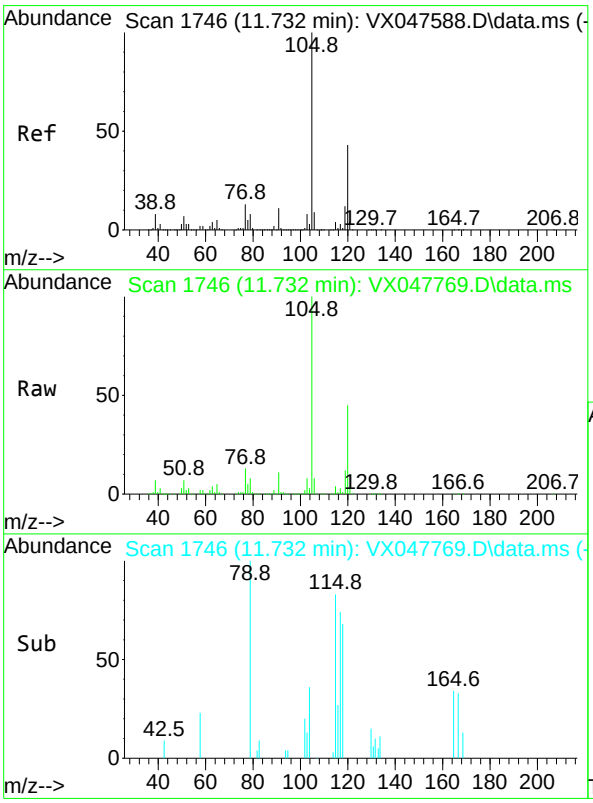
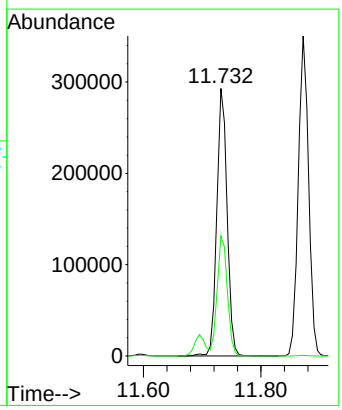
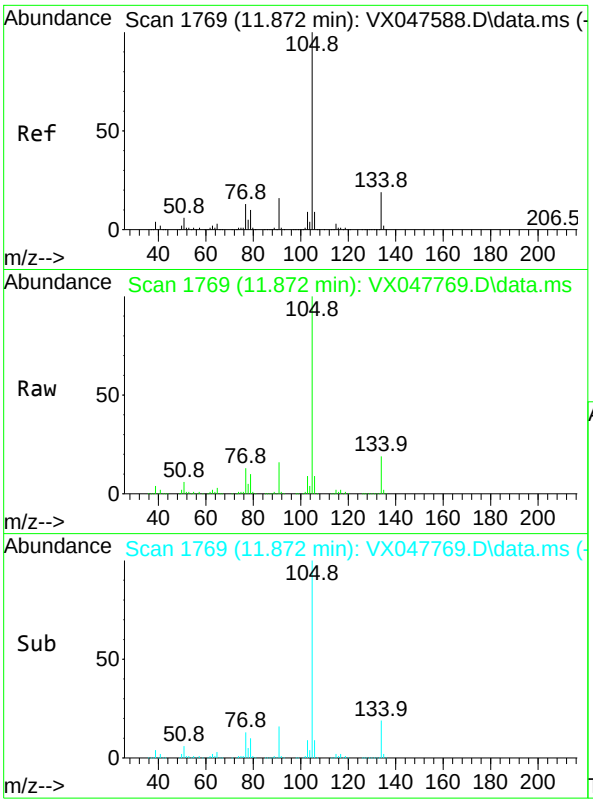


#84
1,2,4-Trimethylbenzene
Concen: 49.229 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:105 Resp: 355686

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1

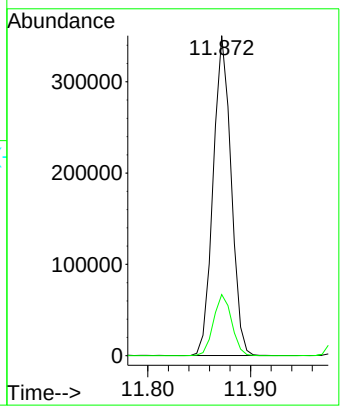




#85
sec-Butylbenzene
Concen: 49.078 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:105 Resp: 42527

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 09/25/2025
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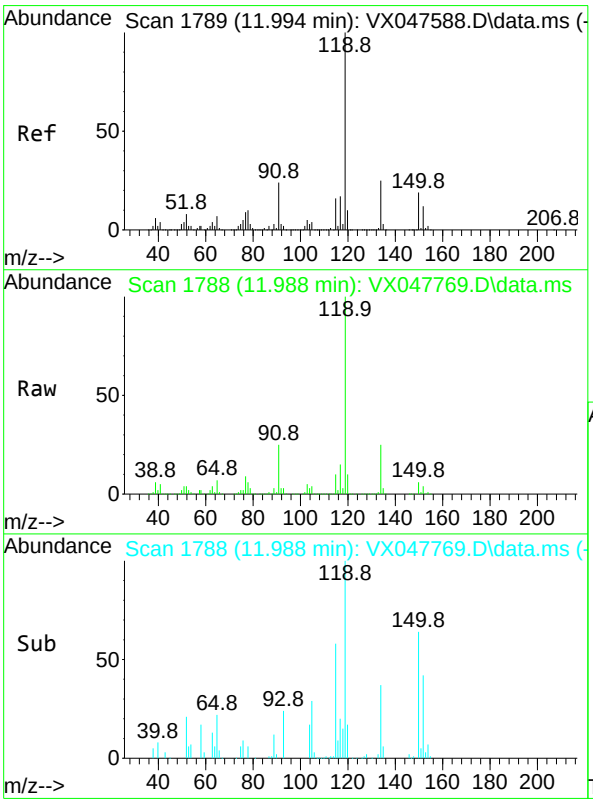
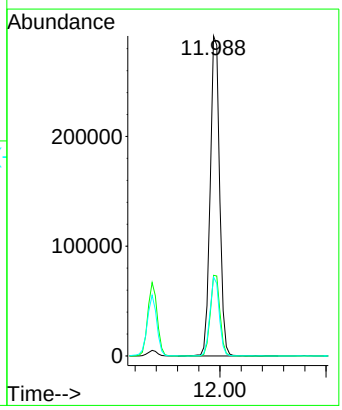
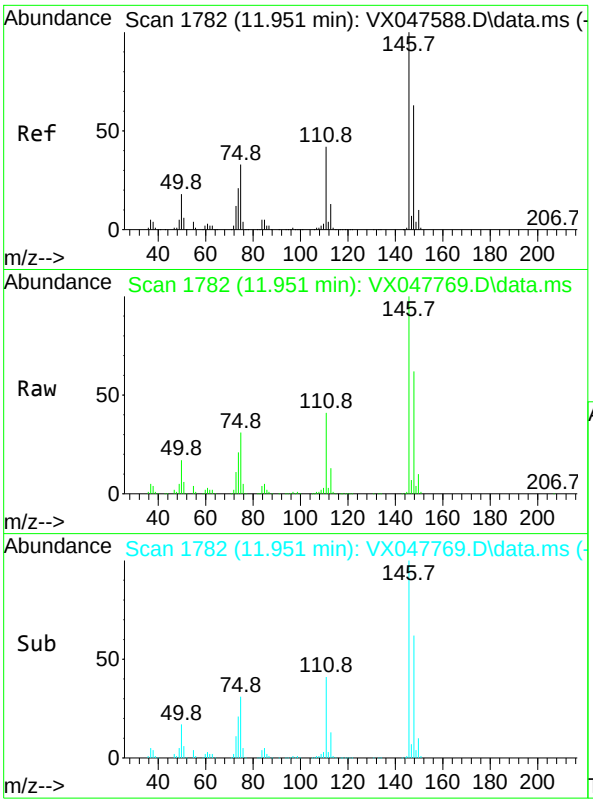


#86
p-Isopropyltoluene
Concen: 48.845 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:119 Resp: 358328

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	24.5	12.6	37.6

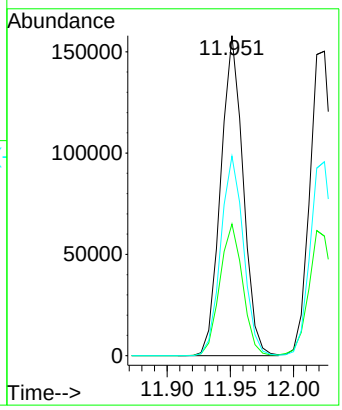




#87
1,3-Dichlorobenzene
Concen: 48.977 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:146 Resp: 19434

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	63.4	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 09/25/2025
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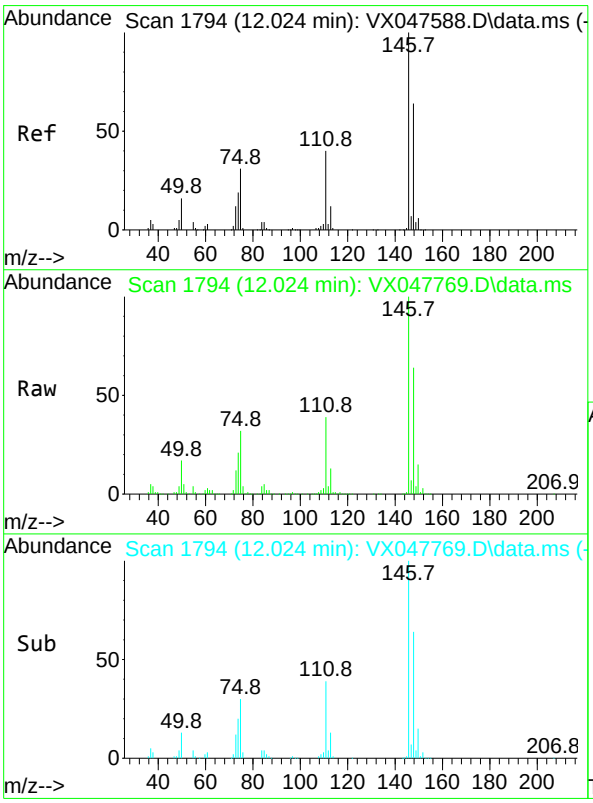
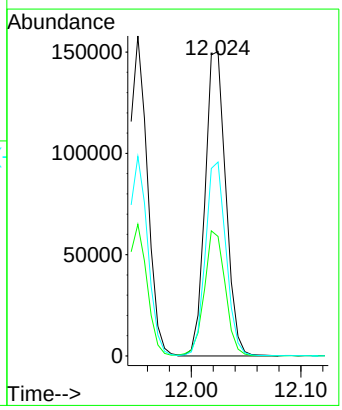
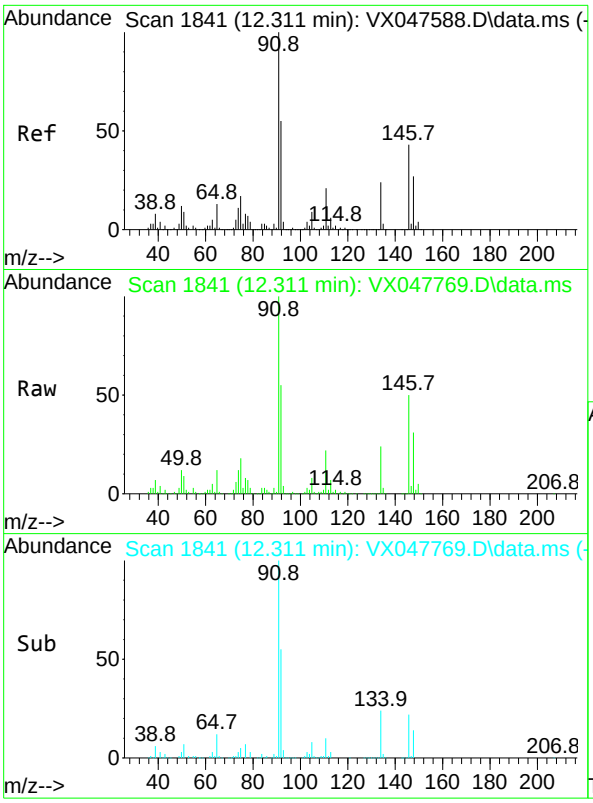


#88
1,4-Dichlorobenzene
Concen: 48.412 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:146 Resp: 197165

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.8	62.4
148	63.3	31.7	95.1

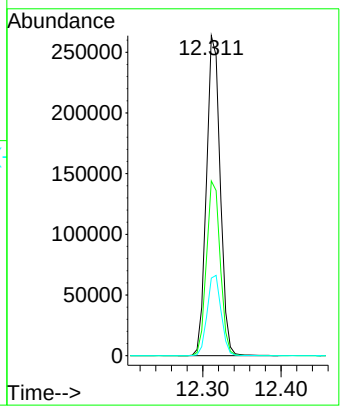




#89
n-Butylbenzene
Concen: 47.219 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 91 Resp: 32052

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.5	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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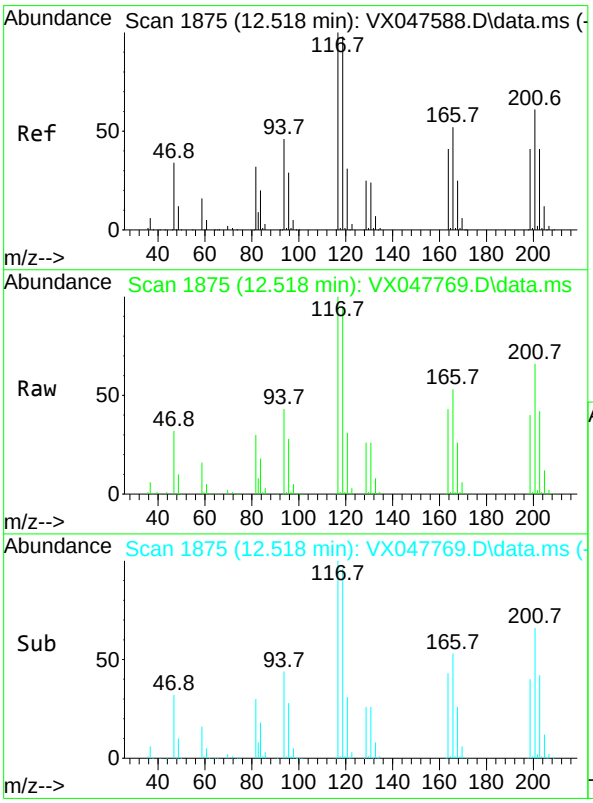
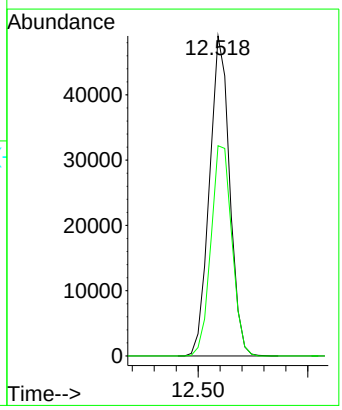
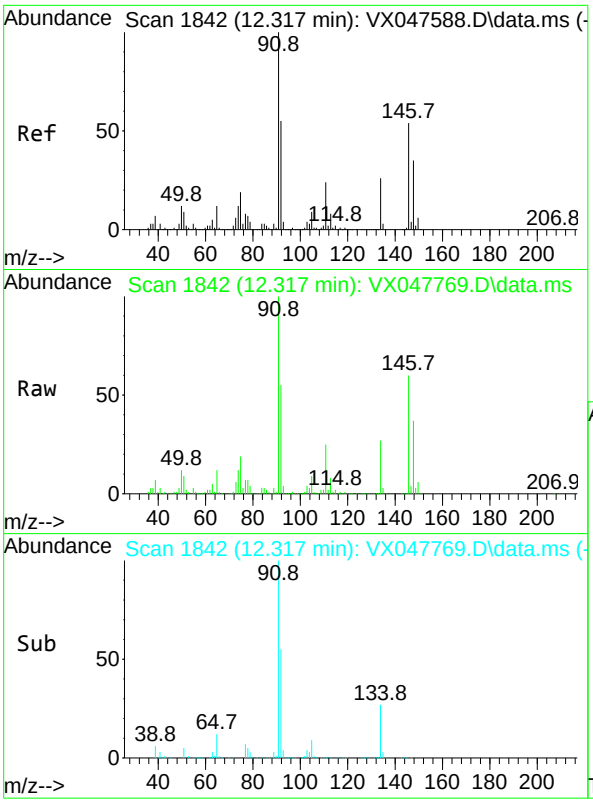


#90
Hexachloroethane
Concen: 48.665 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:117 Resp: 62680

Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.2	102.5

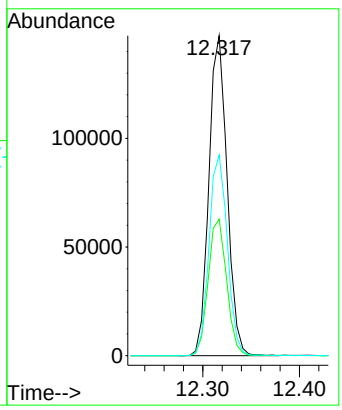




#91
1,2-Dichlorobenzene
Concen: 50.735 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:146 Resp: 19180

Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.2	66.6
148	63.4	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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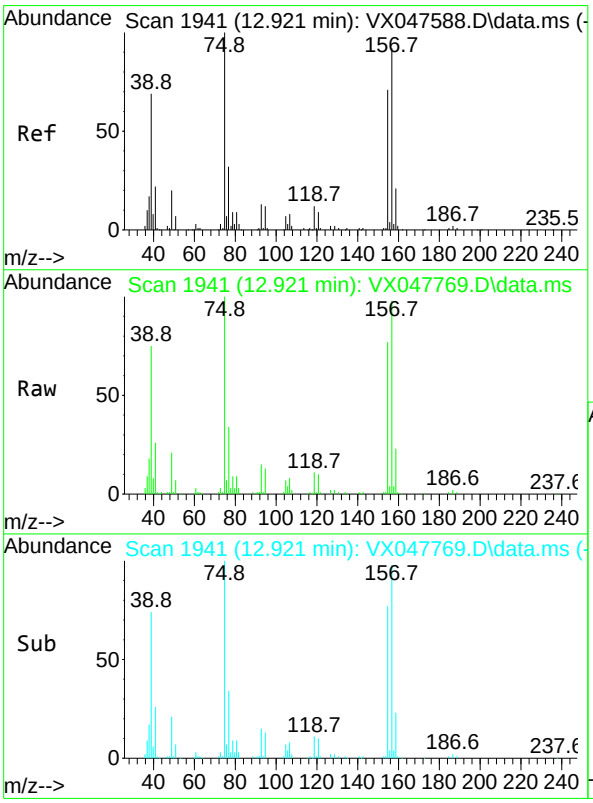
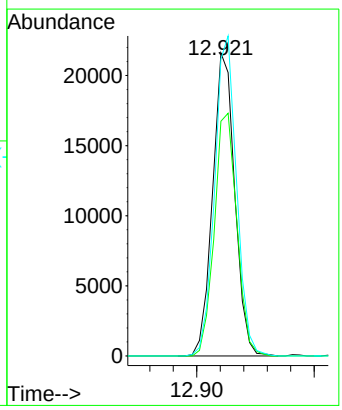
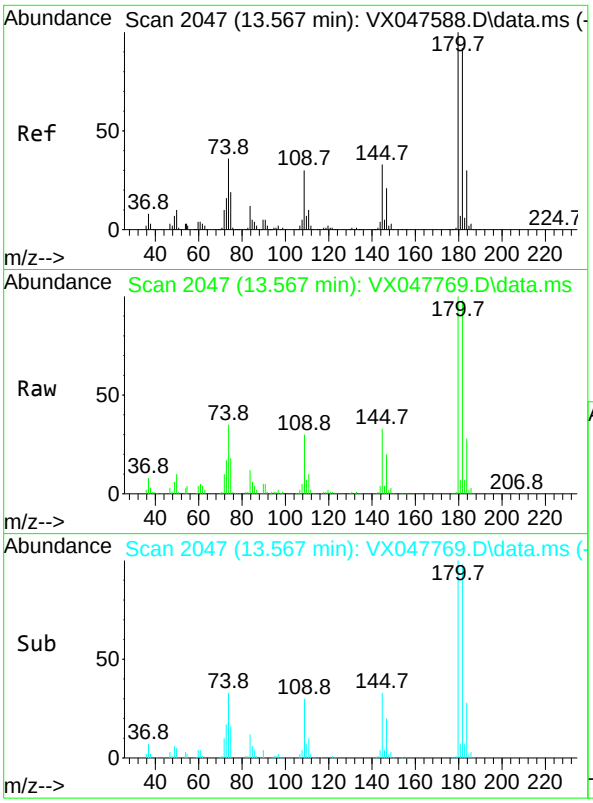


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.180 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 28256

Ion	Ratio	Lower	Upper
75	100		
155	81.4	37.7	113.1
157	104.3	49.8	149.4

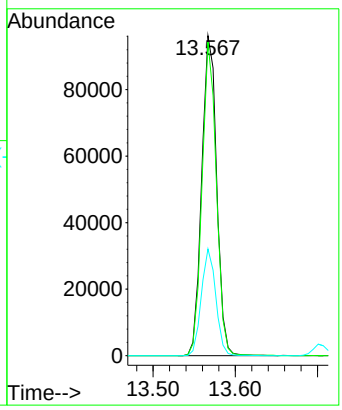




#93
1,2,4-Trichlorobenzene
Concen: 49.455 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:180 Resp: 12150

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.6	139.8
145	32.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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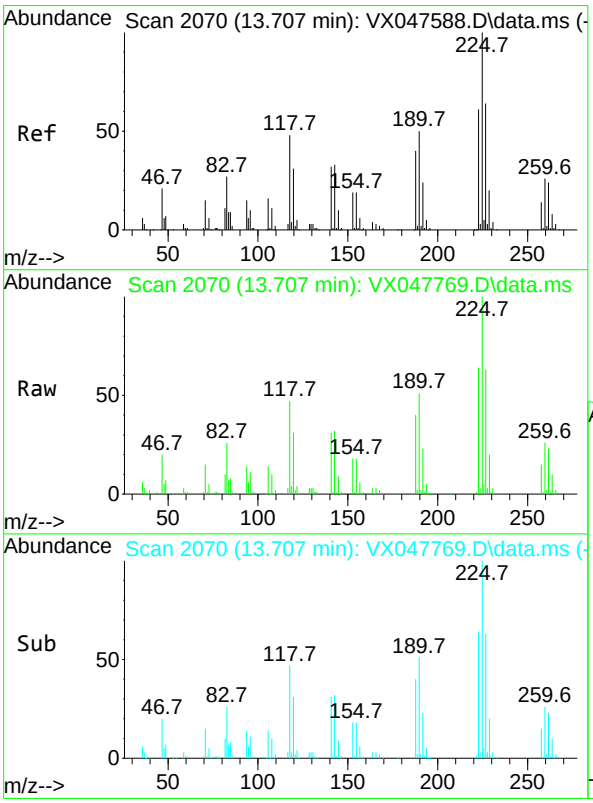
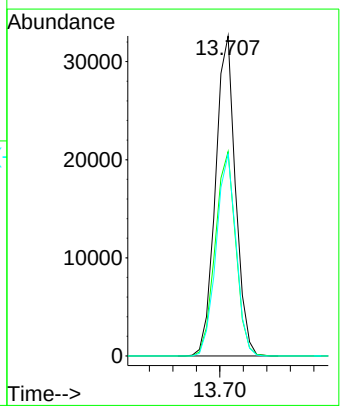
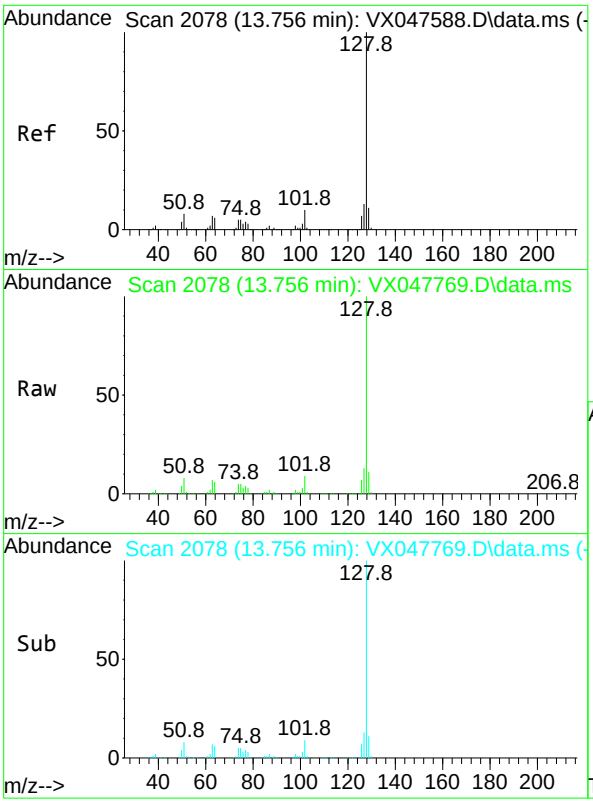


#94
Hexachlorobutadiene
Concen: 46.267 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:225 Resp: 38612

Ion	Ratio	Lower	Upper
225	100		
223	65.5	31.7	95.1
227	62.6	32.0	96.0

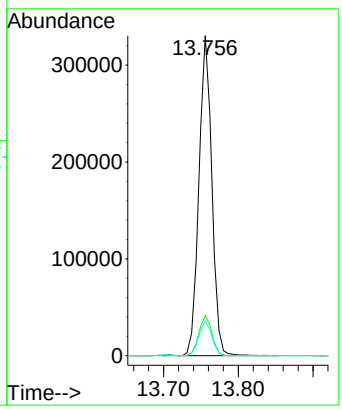




#95
Naphthalene
Concen: 52.855 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:128 Resp: 39543

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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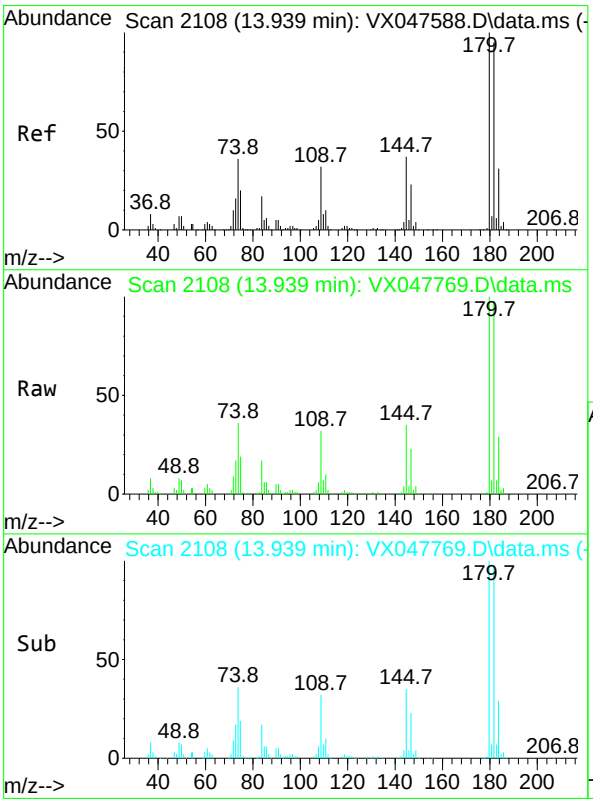
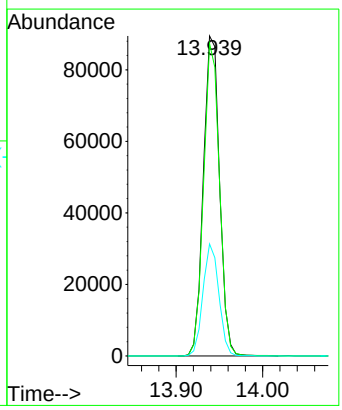


#96
1,2,3-Trichlorobenzene
Concen: 50.922 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:180 Resp: 116383

Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.6	142.8
145	34.4	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	84	-0.01
2	T	Dichlorodifluoromethane	0.518	0.617	-19.1	103	0.00
3	P	Chloromethane	0.680	0.766	-12.6	97	0.00
4	C	Vinyl Chloride	0.666	0.729	-9.5#	92	0.00
5	T	Bromomethane	0.422	0.465	-10.2	92	0.00
6	T	Chloroethane	0.445	0.474	-6.5	90	0.00
7	T	Trichlorofluoromethane	0.989	1.028	-3.9	86	0.00
8	T	Diethyl Ether	0.405	0.440	-8.6	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.606	-4.8	87	0.00
10	T	Methyl Iodide	0.902	0.922	-2.2	85	0.00
11	T	Tert butyl alcohol	0.089	0.100	-12.4	94	0.00
12	CM	1,1-Dichloroethene	0.594	0.618	-4.0#	85	0.00
13	T	Acrolein	0.082	0.092	-12.2	94	0.00
14	T	Allyl chloride	1.226	1.156	5.7	80	0.00
15	T	Acrylonitrile	0.328	0.408	-24.4	98	0.00
16	T	Acetone	0.346	0.328	5.2	86	0.00
17	T	Carbon Disulfide	1.626	1.712	-5.3	91	0.00
18	T	Methyl Acetate	0.770	0.953	-23.8	91	0.00
19	T	Methyl tert-butyl Ether	2.169	2.379	-9.7	89	0.00
20	T	Methylene Chloride	0.732	0.792	-8.2	91	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.682	-6.6	88	0.00
22	T	Diisopropyl ether	2.376	2.580	-8.6	87	-0.01
23	T	Vinyl Acetate	1.901	2.104	-10.7	88	0.00
24	P	1,1-Dichloroethane	1.263	1.335	-5.7	86	0.00
25	T	2-Butanone	0.432	0.494	-14.4	94	0.00
26	T	2,2-Dichloropropane	1.050	0.481	54.2#	38#	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.832	-6.3	86	-0.01
28	T	Bromochloromethane	0.551	0.584	-6.0	85	-0.01
29	T	Tetrahydrofuran	0.260	0.310	-19.2	94	0.00
30	C	Chloroform	1.276	1.356	-6.3#	86	0.00
31	T	Cyclohexane	1.052	1.055	-0.3	86	0.00
32	T	1,1,1-Trichloroethane	1.082	1.109	-2.5	82	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.866	-8.8	94	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
35	S	Dibromofluoromethane	0.335	0.367	-9.6	95	0.00
36	T	1,1-Dichloropropene	0.490	0.473	3.5	83	0.00
37	T	Ethyl Acetate	0.525	0.578	-10.1	93	0.00
38	T	Carbon Tetrachloride	0.532	0.515	3.2	82	0.00
39	T	Methylcyclohexane	0.556	0.539	3.1	81	0.00
40	TM	Benzene	1.488	1.541	-3.6	86	0.00
41	T	Methacrylonitrile	0.271	0.313	-15.5	94	0.00
42	TM	1,2-Dichloroethane	0.566	0.576	-1.8	84	0.00
43	T	Isopropyl Acetate	0.860	0.949	-10.3	90	0.00
44	TM	Trichloroethene	0.360	0.376	-4.4	87	0.00
45	C	1,2-Dichloropropane	0.381	0.403	-5.8#	87	0.00
46	T	Dibromomethane	0.277	0.297	-7.2	88	0.00
47	T	Bromodichloromethane	0.572	0.598	-4.5	84	0.00
48	T	Methyl methacrylate	0.429	0.476	-11.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.006	-50.0#	105	0.00
50	S	Toluene-d8	1.160	1.230	-6.0	92	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.566	-18.7	95	0.00
52	CM	Toluene	0.917	0.940	-2.5#	85	0.00
53	T	t-1,3-Dichloropropene	0.584	0.541	7.4	75	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.582	6.7	76	0.00
55	T	1,1,2-Trichloroethane	0.354	0.383	-8.2	89	0.00
56	T	Ethyl methacrylate	0.555	0.623	-12.3	89	0.00
57	T	1,3-Dichloropropane	0.607	0.662	-9.1	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.317	-39.6#	99	0.00
59	T	2-Hexanone	0.343	0.399	-16.3	95	0.00
60	T	Dibromochloromethane	0.407	0.435	-6.9	85	0.00
61	T	1,2-Dibromoethane	0.360	0.399	-10.8	90	0.00
62	S	4-Bromofluorobenzene	0.440	0.462	-5.0	92	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64	T	Tetrachloroethene	0.326	0.344	-5.5	92	0.00
65	PM	Chlorobenzene	1.136	1.141	-0.4	84	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.403	-2.8	85	0.00
67	C	Ethyl Benzene	1.960	1.951	0.5#	83	0.00
68	T	m/p-Xylenes	0.729	0.736	-1.0	84	0.00
69	T	o-Xylene	0.706	0.721	-2.1	84	0.00
70	T	Styrene	1.236	1.272	-2.9	85	0.00
71	P	Bromoform	0.293	0.318	-8.5	88	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
73	T	Isopropylbenzene	3.801	3.731	1.8	82	0.00
74	T	N-amyl acetate	1.733	1.871	-8.0	90	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.253	-9.0	91	0.00
76	T	1,2,3-Trichloropropane	1.012	0.994	1.8	79	0.00
77	T	Bromobenzene	0.936	0.950	-1.5	86	0.00
78	T	n-propylbenzene	4.494	4.390	2.3	82	0.00
79	T	2-Chlorotoluene	2.752	2.700	1.9	83	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.078	1.4	82	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.321	19.1	69	0.00
82	T	4-Chlorotoluene	3.251	3.173	2.4	83	0.00
83	T	tert-Butylbenzene	3.197	3.086	3.5	82	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.118	1.5	83	0.00
85	T	sec-Butylbenzene	3.797	3.727	1.8	83	0.00
86	T	p-Isopropyltoluene	3.215	3.141	2.3	82	0.00
87	T	1,3-Dichlorobenzene	1.739	1.703	2.1	84	0.00
88	T	1,4-Dichlorobenzene	1.785	1.728	3.2	84	0.00
89	T	n-Butylbenzene	2.975	2.809	5.6	80	0.00
90	T	Hexachloroethane	0.564	0.549	2.7	83	0.00
91	T	1,2-Dichlorobenzene	1.657	1.681	-1.4	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.248	-6.4	87	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.065	1.1	82	0.00
94	T	Hexachlorobutadiene	0.366	0.338	7.7	79	0.00
95	T	Naphthalene	3.279	3.466	-5.7	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.020	-1.8	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	84	-0.01
2	T	Dichlorodifluoromethane	50.000	59.595	-19.2	103	0.00
3	P	Chloromethane	50.000	56.251	-12.5	97	0.00
4	C	Vinyl Chloride	50.000	54.684	-9.4#	92	0.00
5	T	Bromomethane	50.000	55.087	-10.2	92	0.00
6	T	Chloroethane	50.000	53.245	-6.5	90	0.00
7	T	Trichlorofluoromethane	50.000	51.960	-3.9	86	0.00
8	T	Diethyl Ether	50.000	54.350	-8.7	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.426	-4.9	87	0.00
10	T	Methyl Iodide	50.000	51.110	-2.2	85	0.00
11	T	Tert butyl alcohol	250.000	282.723	-13.1	94	0.00
12	CM	1,1-Dichloroethene	50.000	51.987	-4.0#	85	0.00
13	T	Acrolein	250.000	280.858	-12.3	94	0.00
14	T	Allyl chloride	50.000	47.162	5.7	80	0.00
15	T	Acrylonitrile	250.000	310.874	-24.3	98	0.00
16	T	Acetone	250.000	236.815	5.3	86	0.00
17	T	Carbon Disulfide	50.000	52.625	-5.3	91	0.00
18	T	Methyl Acetate	50.000	61.903	-23.8	91	0.00
19	T	Methyl tert-butyl Ether	50.000	54.854	-9.7	89	0.00
20	T	Methylene Chloride	50.000	54.091	-8.2	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	53.353	-6.7	88	0.00
22	T	Diisopropyl ether	50.000	54.309	-8.6	87	-0.01
23	T	Vinyl Acetate	250.000	276.642	-10.7	88	0.00
24	P	1,1-Dichloroethane	50.000	52.845	-5.7	86	0.00
25	T	2-Butanone	250.000	285.932	-14.4	94	0.00
26	T	2,2-Dichloropropane	50.000	22.920	54.2#	38	0.00
27	T	cis-1,2-Dichloroethene	50.000	53.106	-6.2	86	-0.01
28	T	Bromochloromethane	50.000	52.945	-5.9	85	-0.01
29	T	Tetrahydrofuran	250.000	298.644	-19.5	94	0.00
30	C	Chloroform	50.000	53.144	-6.3#	86	0.00
31	T	Cyclohexane	50.000	50.154	-0.3	86	0.00
32	T	1,1,1-Trichloroethane	50.000	51.242	-2.5	82	0.00
33	S	1,2-Dichloroethane-d4	50.000	54.395	-8.8	94	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	85	0.00
35	S	Dibromofluoromethane	50.000	54.718	-9.4	95	0.00
36	T	1,1-Dichloropropene	50.000	48.237	3.5	83	0.00
37	T	Ethyl Acetate	50.000	55.069	-10.1	93	0.00
38	T	Carbon Tetrachloride	50.000	48.413	3.2	82	0.00
39	T	Methylcyclohexane	50.000	48.420	3.2	81	0.00
40	TM	Benzene	50.000	51.764	-3.5	86	0.00
41	T	Methacrylonitrile	50.000	57.784	-15.6	94	0.00
42	TM	1,2-Dichloroethane	50.000	50.825	-1.7	84	0.00
43	T	Isopropyl Acetate	50.000	55.147	-10.3	90	0.00
44	TM	Trichloroethene	50.000	52.220	-4.4	87	0.00
45	C	1,2-Dichloropropane	50.000	52.927	-5.9#	87	0.00
46	T	Dibromomethane	50.000	53.536	-7.1	88	0.00
47	T	Bromodichloromethane	50.000	52.239	-4.5	84	0.00
48	T	Methyl methacrylate	50.000	55.541	-11.1	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1363.725	-36.4#	105	0.00
50	S	Toluene-d8	50.000	53.025	-6.0	92	0.00
51	T	4-Methyl-2-Pentanone	250.000	296.757	-18.7	95	0.00
52	CM	Toluene	50.000	51.255	-2.5#	85	0.00
53	T	t-1,3-Dichloropropene	50.000	46.340	7.3	75	0.00
54	T	cis-1,3-Dichloropropene	50.000	46.603	6.8	76	0.00
55	T	1,1,2-Trichloroethane	50.000	54.130	-8.3	89	0.00
56	T	Ethyl methacrylate	50.000	56.125	-12.3	89	0.00
57	T	1,3-Dichloropropane	50.000	54.475	-9.0	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	295.083	-18.0	99	0.00
59	T	2-Hexanone	250.000	291.132	-16.5	95	0.00
60	T	Dibromochloromethane	50.000	53.426	-6.9	85	0.00
61	T	1,2-Dibromoethane	50.000	55.355	-10.7	90	0.00
62	S	4-Bromofluorobenzene	50.000	52.449	-4.9	92	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64	T	Tetrachloroethene	50.000	52.796	-5.6	92	0.00
65	PM	Chlorobenzene	50.000	50.214	-0.4	84	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.406	-2.8	85	0.00
67	C	Ethyl Benzene	50.000	49.776	0.4#	83	0.00
68	T	m/p-Xylenes	100.000	100.941	-0.9	84	0.00
69	T	o-Xylene	50.000	51.084	-2.2	84	0.00
70	T	Styrene	50.000	51.423	-2.8	85	0.00
71	P	Bromoform	50.000	54.272	-8.5	88	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	89	0.00
73	T	Isopropylbenzene	50.000	49.073	1.9	82	0.00
74	T	N-amyl acetate	50.000	53.964	-7.9	90	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.463	-8.9	91	0.00
76	T	1,2,3-Trichloropropane	50.000	49.071	1.9	79	0.00
77	T	Bromobenzene	50.000	50.743	-1.5	86	0.00
78	T	n-propylbenzene	50.000	48.849	2.3	82	0.00
79	T	2-Chlorotoluene	50.000	49.053	1.9	83	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.271	1.5	82	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	40.467	19.1	69	0.00
82	T	4-Chlorotoluene	50.000	48.802	2.4	83	0.00
83	T	tert-Butylbenzene	50.000	48.261	3.5	82	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.229	1.5	83	0.00
85	T	sec-Butylbenzene	50.000	49.078	1.8	83	0.00
86	T	p-Isopropyltoluene	50.000	48.845	2.3	82	0.00
87	T	1,3-Dichlorobenzene	50.000	48.977	2.0	84	0.00
88	T	1,4-Dichlorobenzene	50.000	48.412	3.2	84	0.00
89	T	n-Butylbenzene	50.000	47.219	5.6	80	0.00
90	T	Hexachloroethane	50.000	48.665	2.7	83	0.00
91	T	1,2-Dichlorobenzene	50.000	50.735	-1.5	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.180	-6.4	87	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.455	1.1	82	0.00
94	T	Hexachlorobutadiene	50.000	46.267	7.5	79	0.00
95	T	Naphthalene	50.000	52.855	-5.7	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.922	-1.8	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

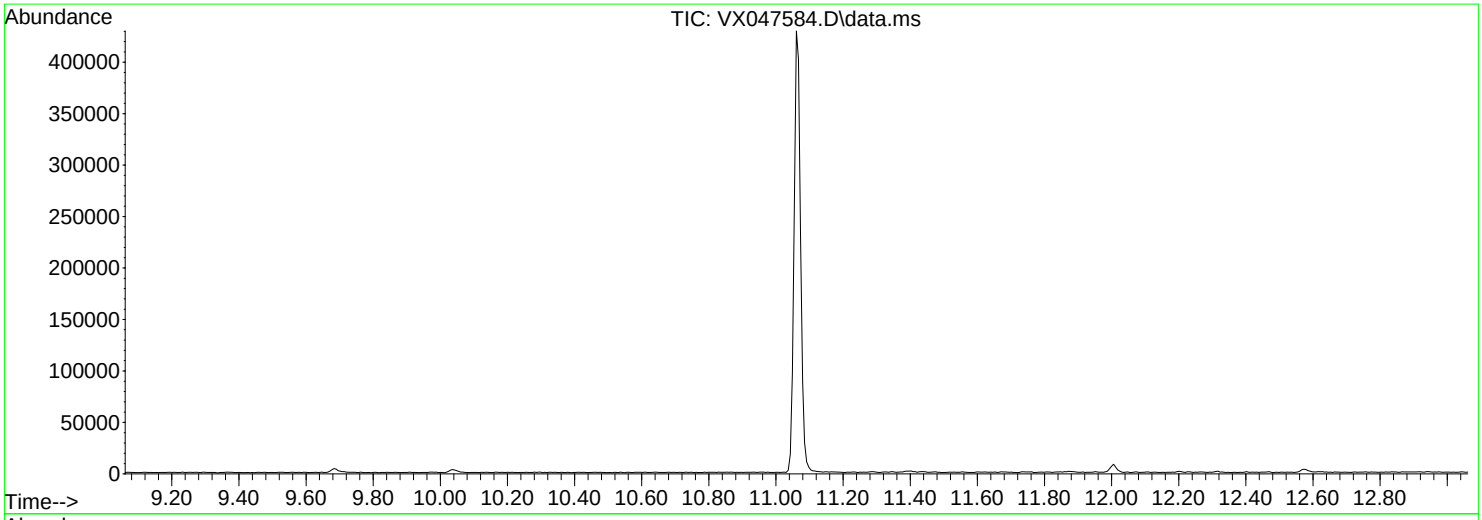
Sample Results: **VX047584.D**

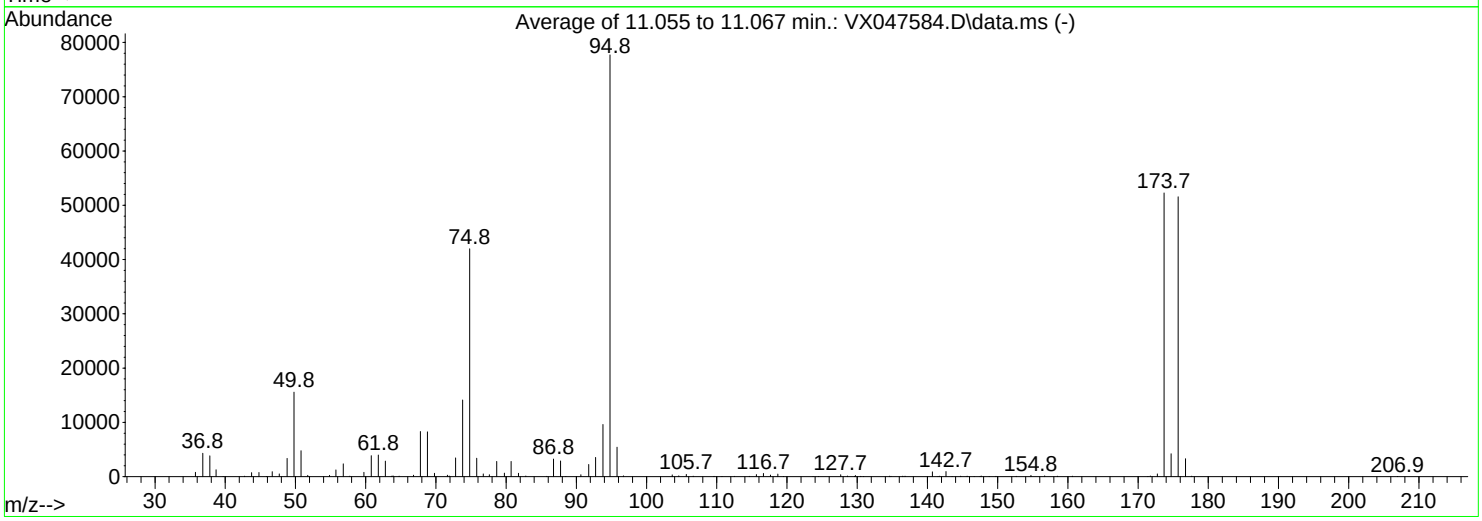
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047584.D
Acq On : 16 Sep 2025 08:56
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1628

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	15566	PASS
75	95	30	60	54.0	41979	PASS
95	95	100	100	100.0	77717	PASS
96	95	5	9	7.0	5432	PASS
173	174	0.00	2	1.0	507	PASS
174	95	50	100	67.3	52275	PASS
175	174	5	9	8.1	4209	PASS
176	174	95	101	98.6	51560	PASS
177	176	5	9	6.4	3311	PASS

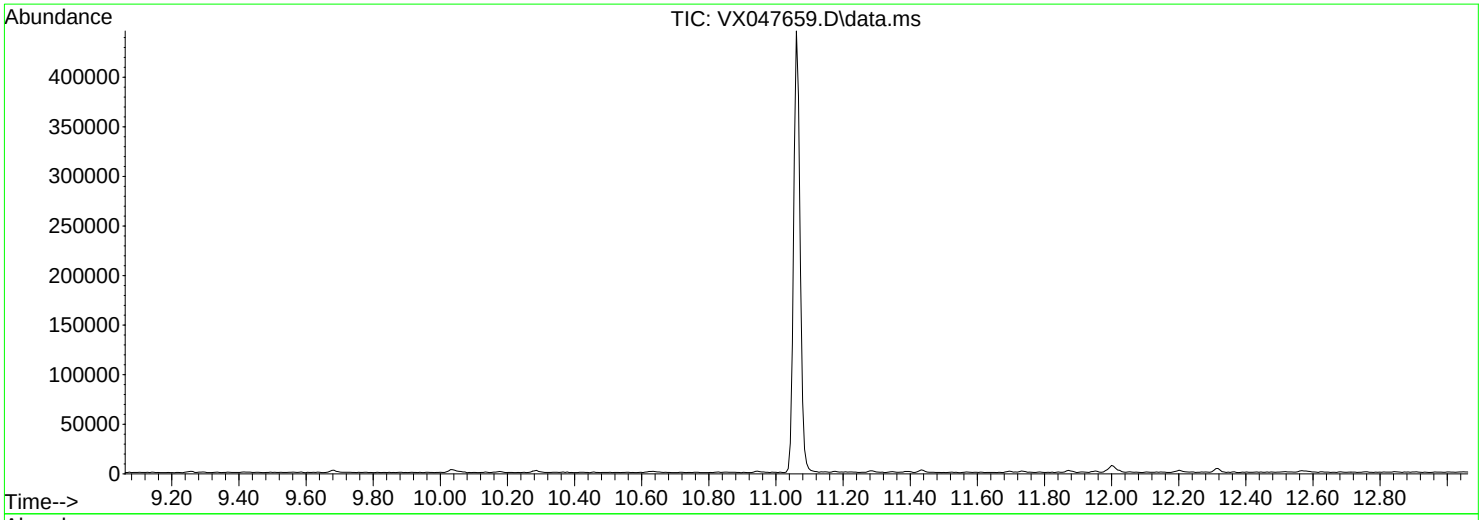
Sample Results: **VX047659.D**

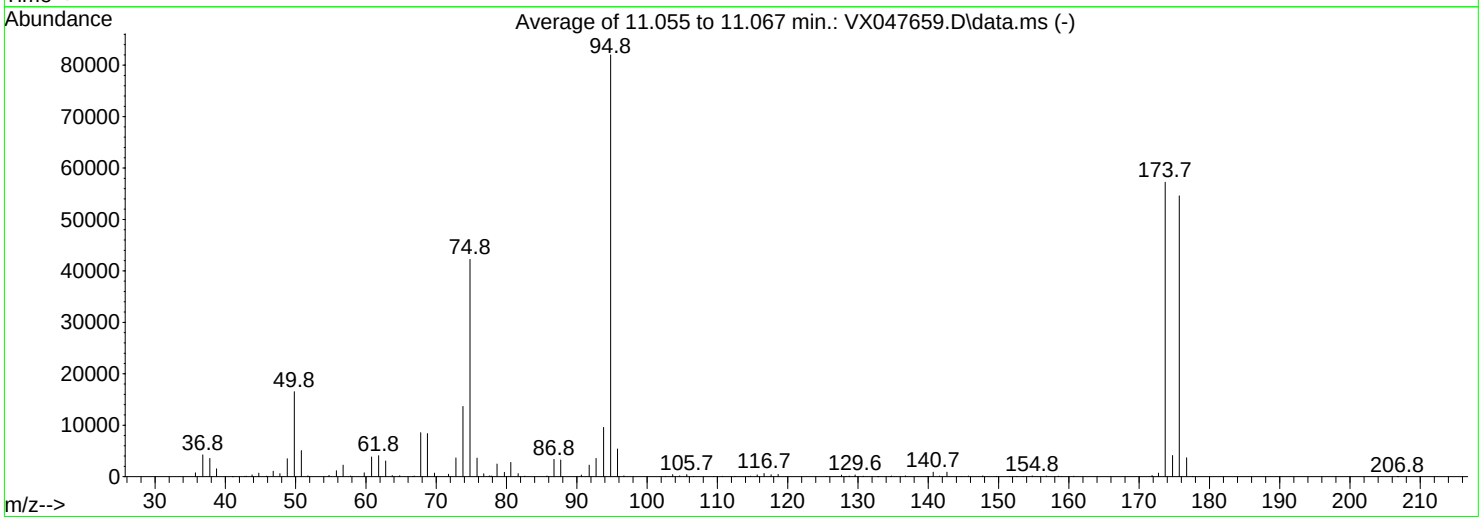
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047659.D
Acq On : 19 Sep 2025 08:17
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1628

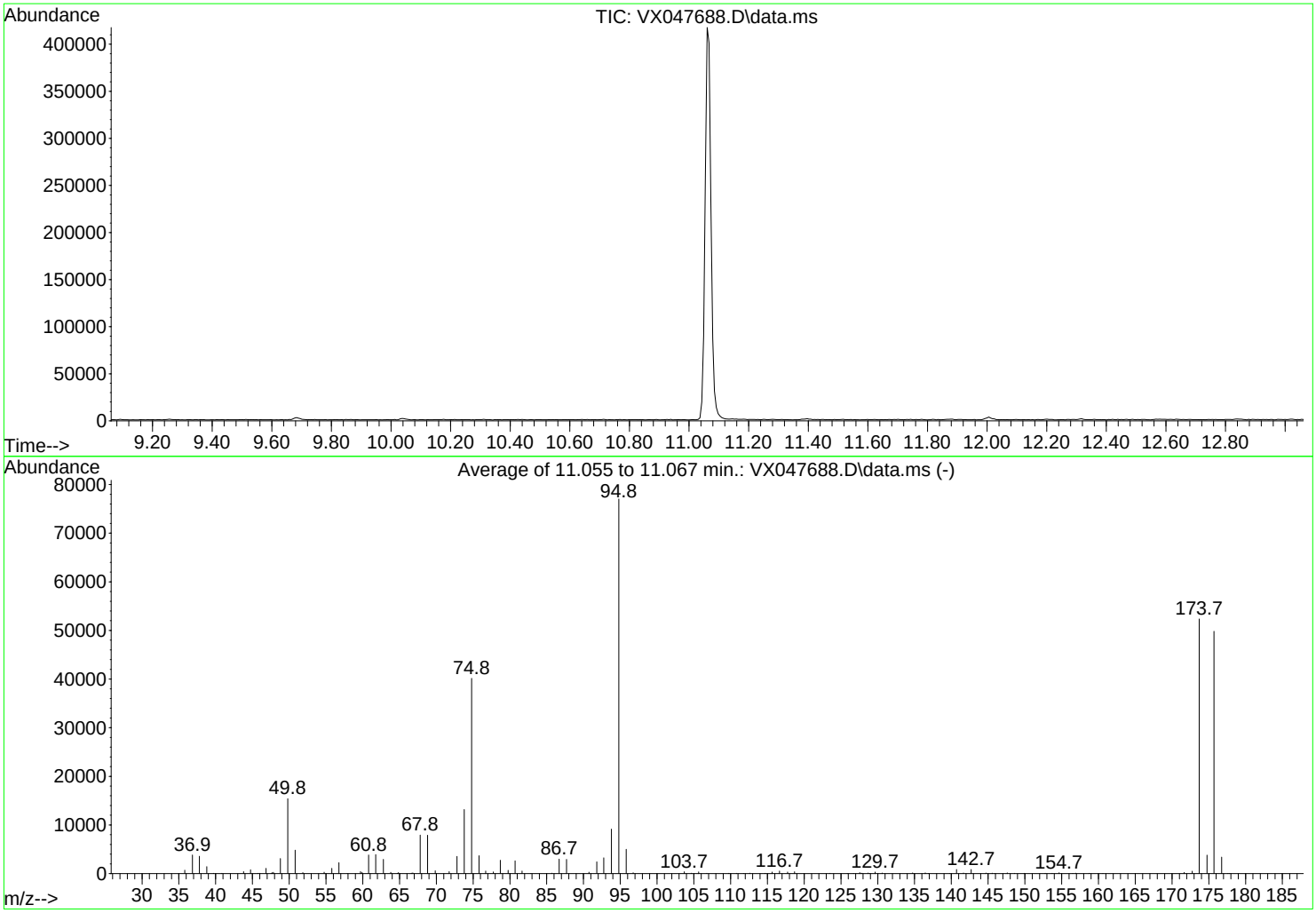
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	16524	PASS
75	95	30	60	51.5	42251	PASS
95	95	100	100	100.0	82008	PASS
96	95	5	9	6.6	5391	PASS
173	174	0.00	2	1.2	683	PASS
174	95	50	100	69.8	57248	PASS
175	174	5	9	7.2	4099	PASS
176	174	95	101	95.4	54611	PASS
177	176	5	9	6.8	3687	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047688.D
Acq On : 22 Sep 2025 09:07
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1628

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	15414	PASS
75	95	30	60	52.1	40141	PASS
95	95	100	100	100.0	77029	PASS
96	95	5	9	6.5	4992	PASS
173	174	0.00	2	0.9	486	PASS
174	95	50	100	68.0	52360	PASS
175	174	5	9	7.2	3790	PASS
176	174	95	101	95.1	49808	PASS
177	176	5	9	6.8	3382	PASS

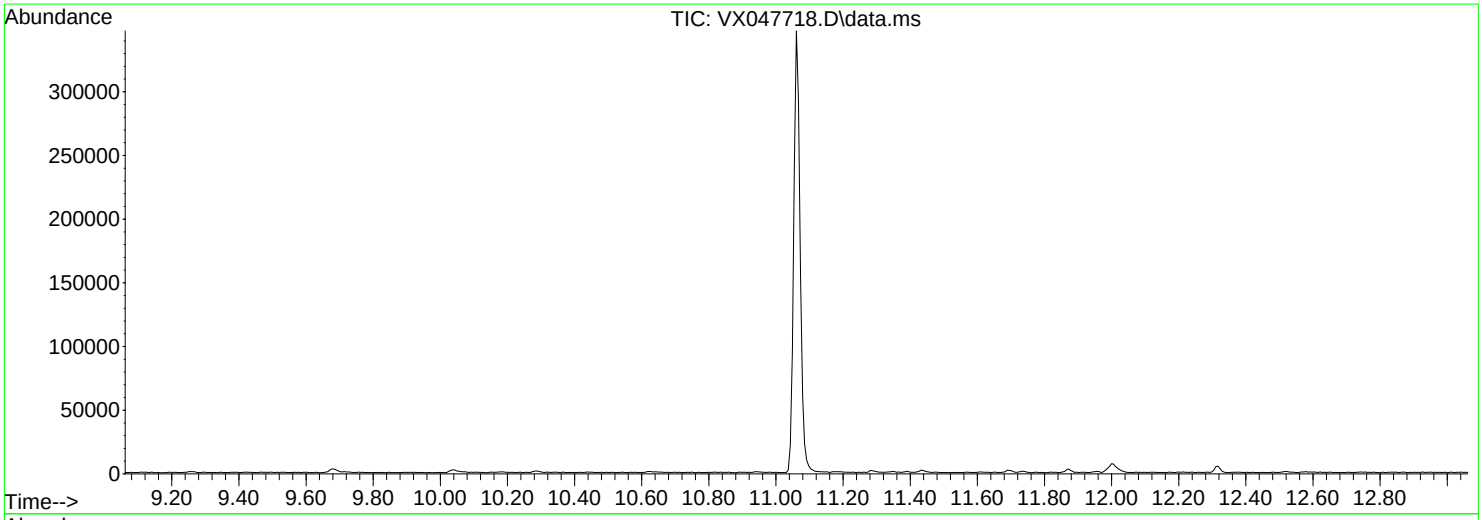
Sample Results: **VX047718.D**

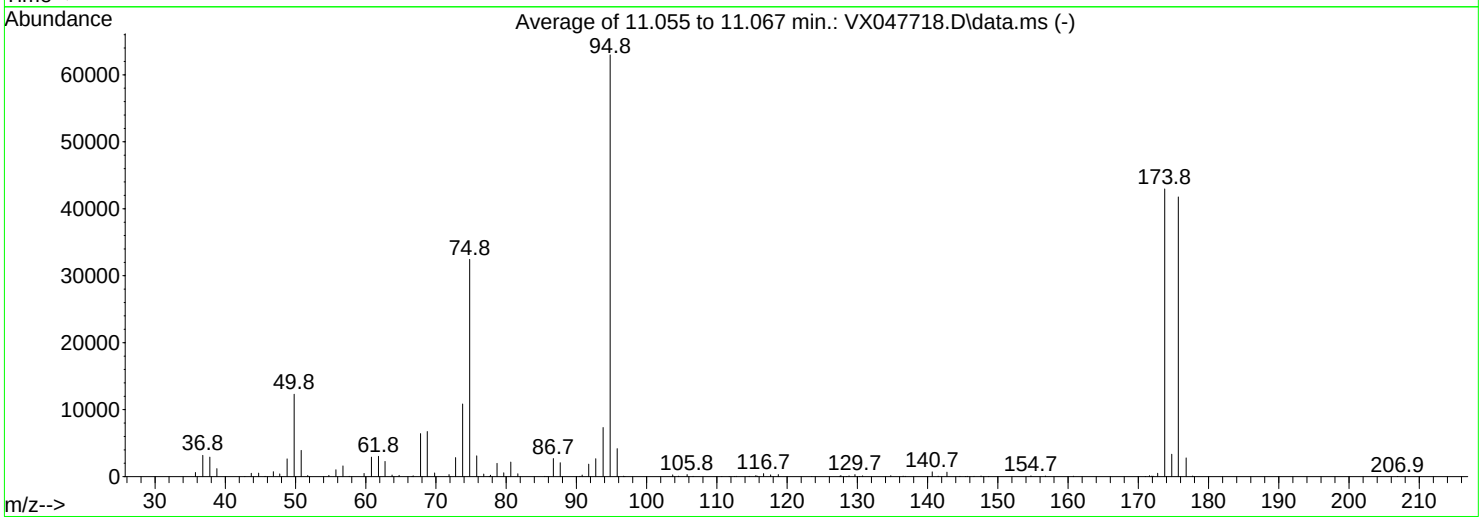
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047718.D
Acq On : 23 Sep 2025 08:05
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

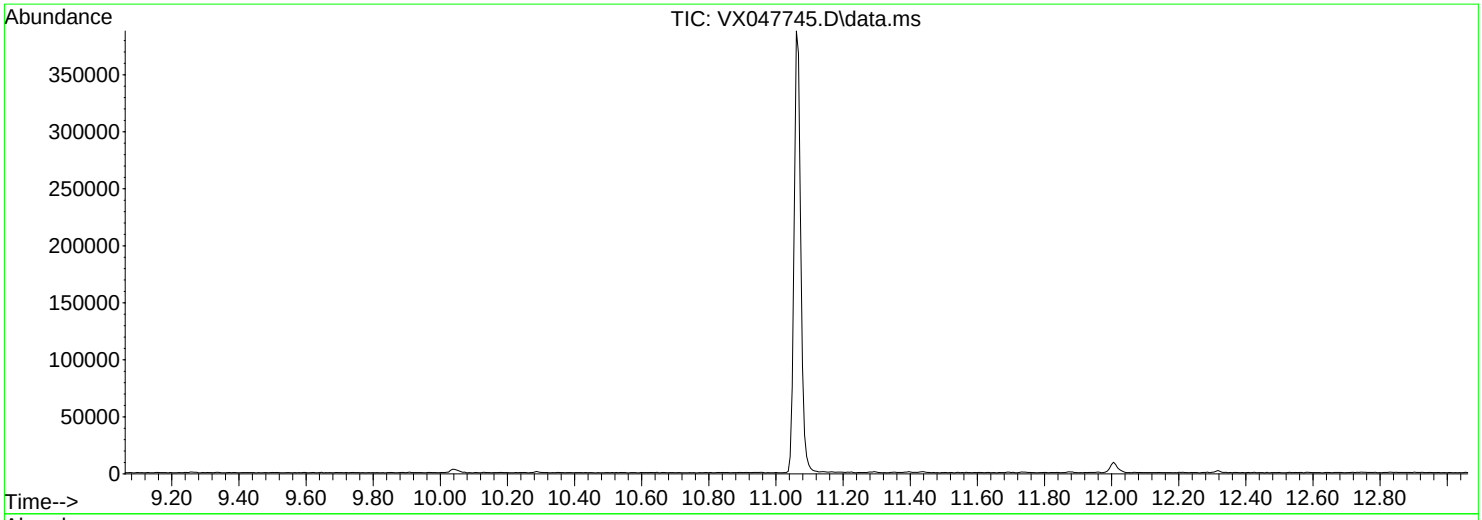
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	12318	PASS
75	95	30	60	51.5	32445	PASS
95	95	100	100	100.0	62984	PASS
96	95	5	9	6.6	4176	PASS
173	174	0.00	2	1.2	495	PASS
174	95	50	100	68.2	42955	PASS
175	174	5	9	7.8	3337	PASS
176	174	95	101	97.2	41752	PASS
177	176	5	9	6.7	2792	PASS

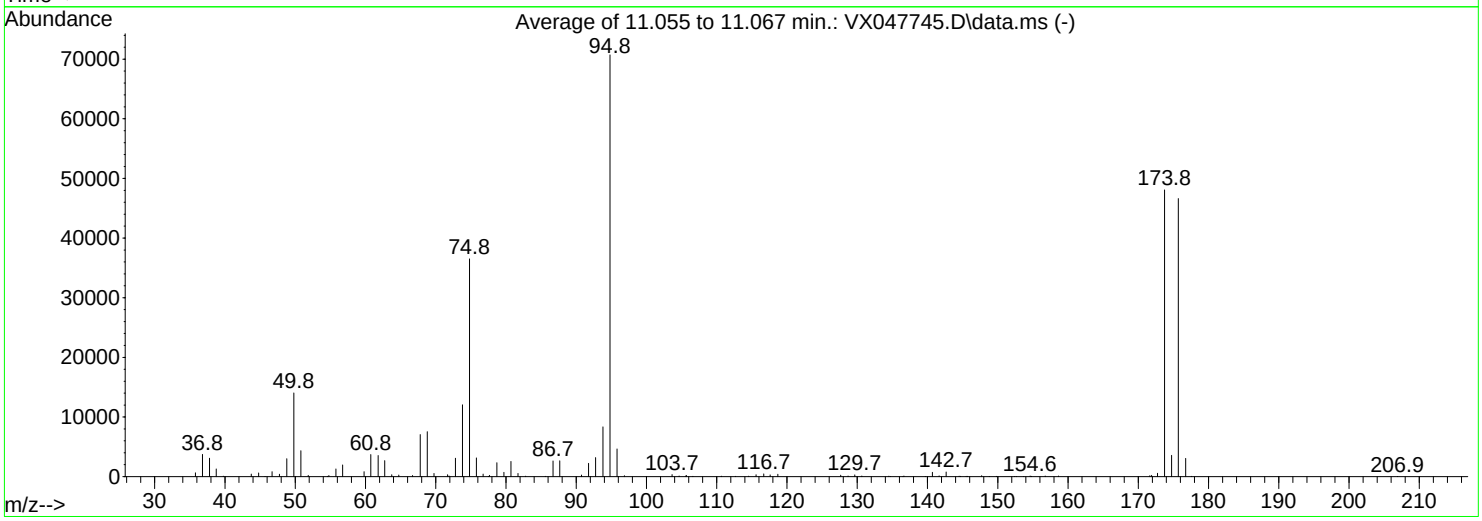
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047745.D
Acq On : 24 Sep 2025 01:30
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

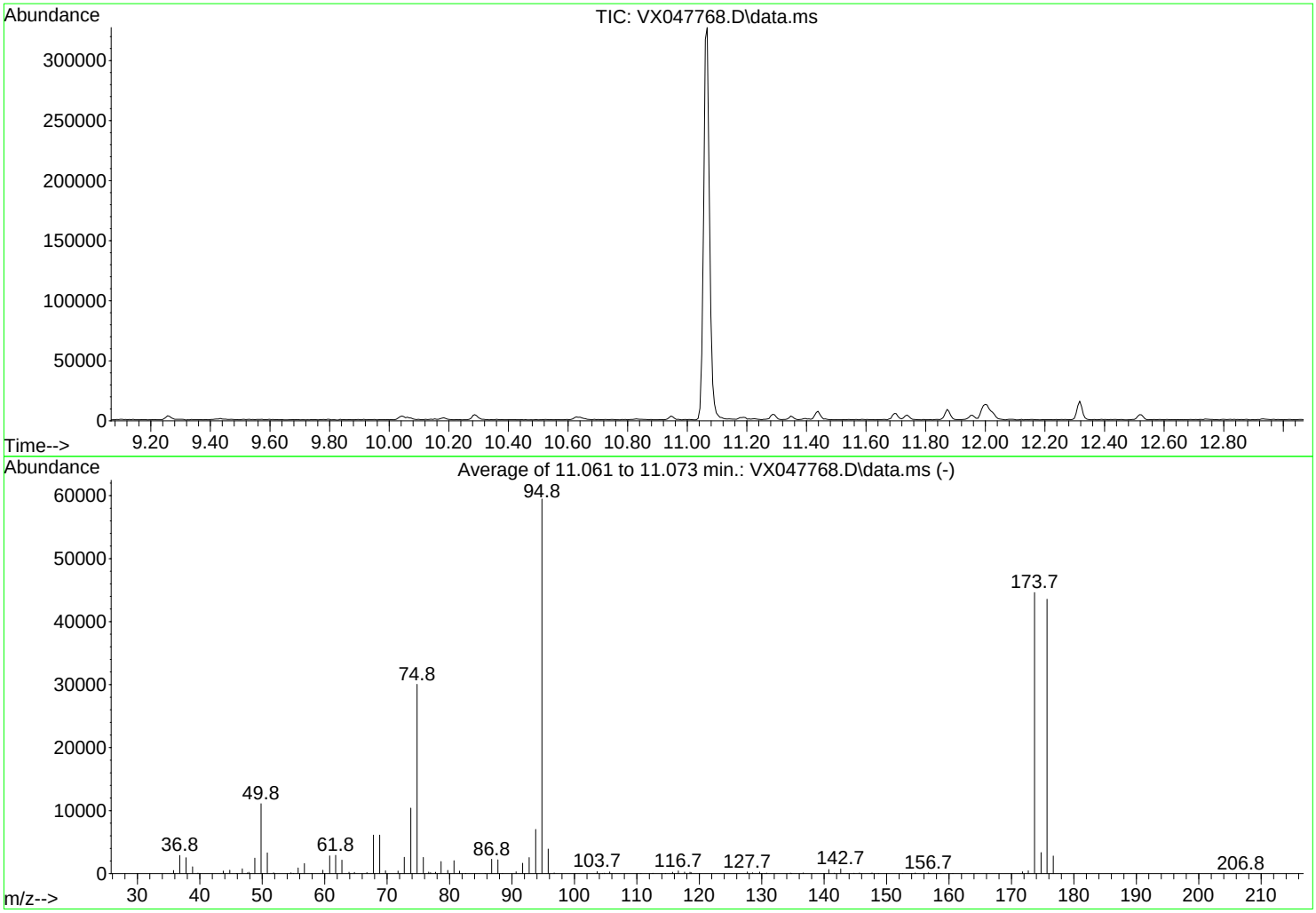
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	14045	PASS
75	95	30	60	51.6	36501	PASS
95	95	100	100	100.0	70720	PASS
96	95	5	9	6.6	4644	PASS
173	174	0.00	2	1.2	568	PASS
174	95	50	100	68.0	48067	PASS
175	174	5	9	7.4	3558	PASS
176	174	95	101	97.0	46629	PASS
177	176	5	9	6.5	3052	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047768.D
Acq On : 24 Sep 2025 11:16
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025



AutoFind: Scans 1636, 1637, 1638; Background Corrected with Scan 1629

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	11093	PASS
75	95	30	60	50.5	30043	PASS
95	95	100	100	100.0	59467	PASS
96	95	5	9	6.6	3896	PASS
173	174	0.00	2	1.0	443	PASS
174	95	50	100	75.0	44629	PASS
175	174	5	9	7.5	3342	PASS
176	174	95	101	97.6	43568	PASS
177	176	5	9	6.4	2794	PASS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0919WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0919WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047662.D	1	09/19/25 10:11	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0919WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0919WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047662.D	1	09/19/25 10:11	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.8		81 - 118		116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	52.3		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3		85 - 114		113%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	194000	5.537				
540-36-3	1,4-Difluorobenzene	364000	6.745				
3114-55-4	Chlorobenzene-d5	339000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	175000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0919WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0919WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047662.D	1	09/19/25 10:11	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047662.D
Acq On : 19 Sep 2025 10:11
Operator : JC/MD
Sample : VX0919WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBL01

Quant Time: Sep 20 00:26:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	194256	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	363806	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	339161	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	175228	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	178788	57.822	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.640%			
35) Dibromofluoromethane	5.373	113	128166	52.530	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.060%			
50) Toluene-d8	8.634	98	441682	52.317	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 104.640%			
62) 4-Bromofluorobenzene	11.061	95	180450	56.319	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 112.640%			

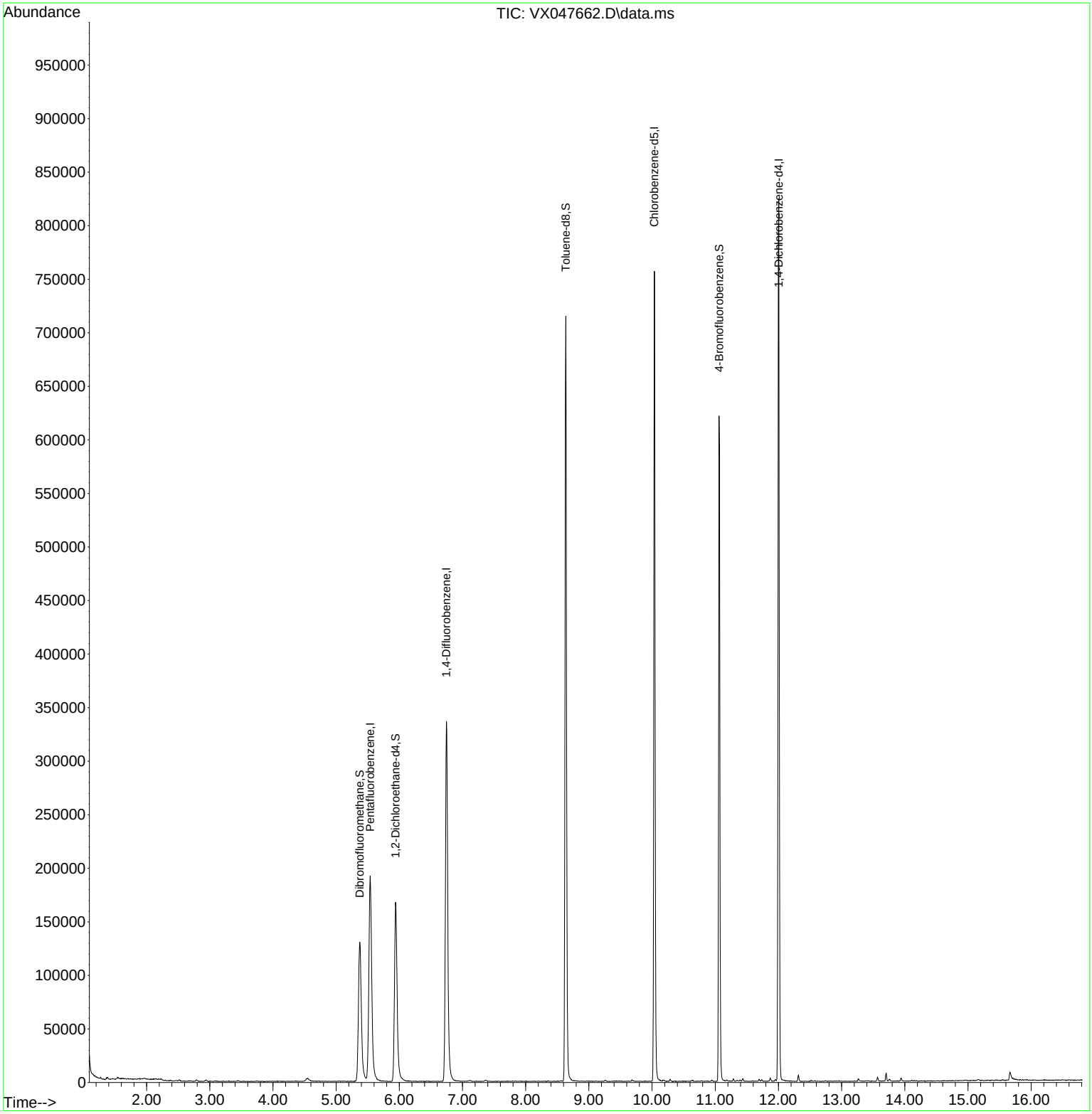
Target Compounds Qvalue

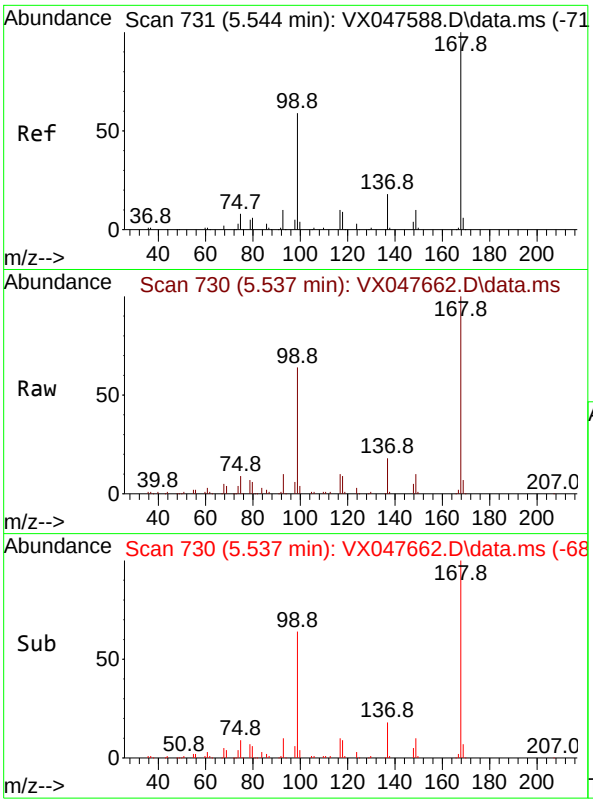
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047662.D
Acq On : 19 Sep 2025 10:11
Operator : JC/MD
Sample : VX0919WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBL01

Quant Time: Sep 20 00:26:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



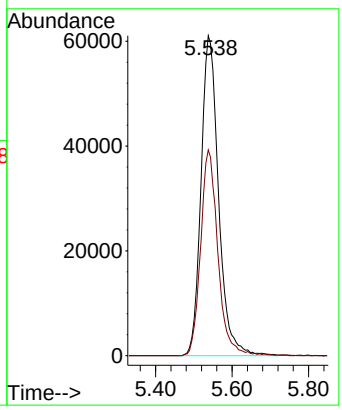


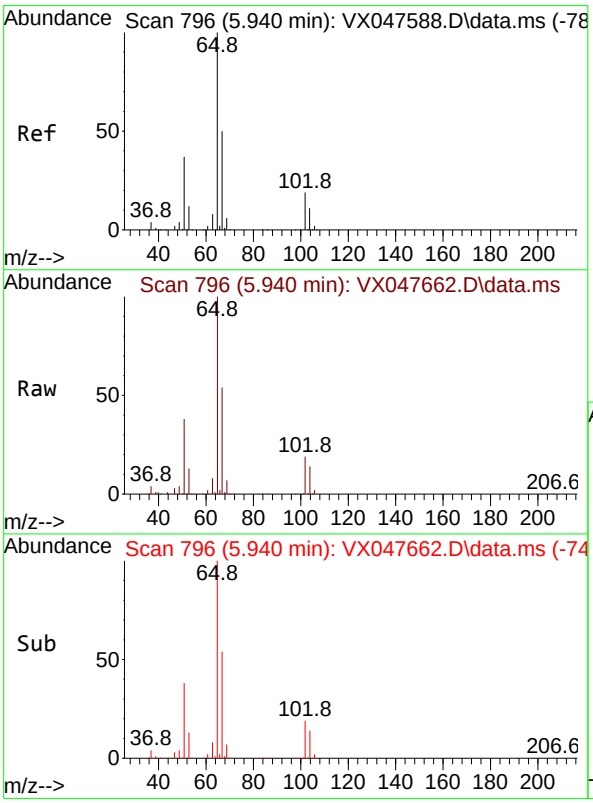
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047662.D
Acq: 19 Sep 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBL01

Tgt Ion:168 Resp: 194256

Ion	Ratio	Lower	Upper
168	100		
99	64.3	48.8	73.2

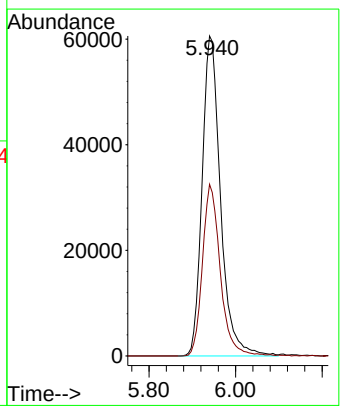


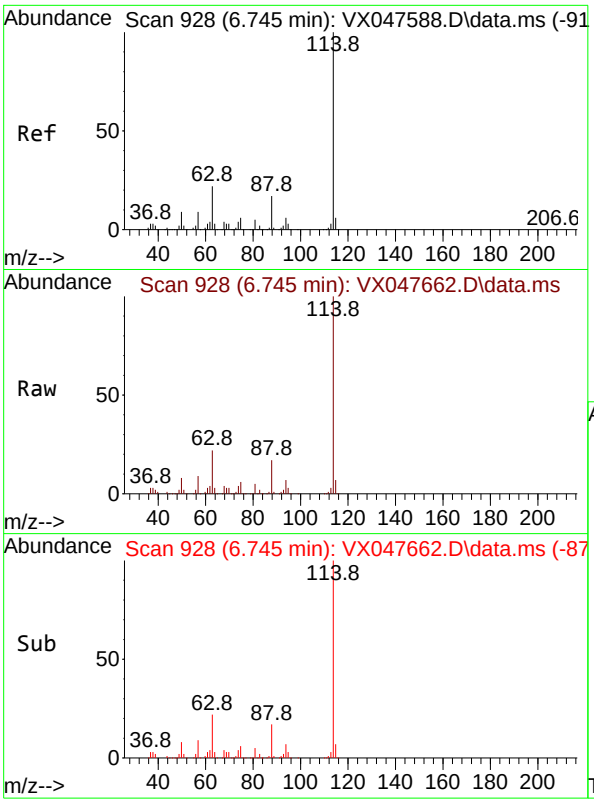


#33
1,2-Dichloroethane-d4
Concen: 57.822 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047662.D
Acq: 19 Sep 2025 10:11

Tgt Ion: 65 Resp: 178788

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	103.0



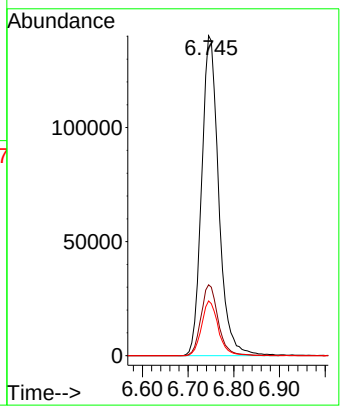


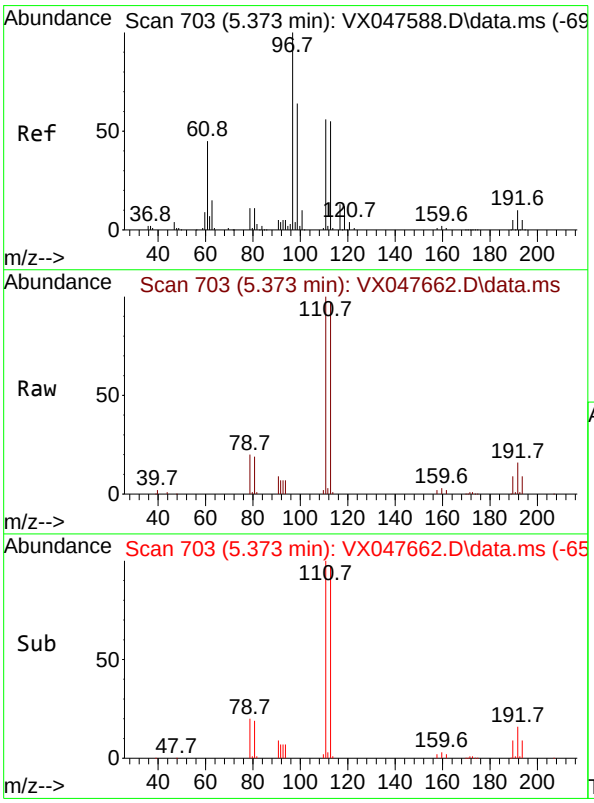
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047662.D
Acq: 19 Sep 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBL01

Tgt Ion:114 Resp: 363806

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.0
88	17.1	0.0	34.2

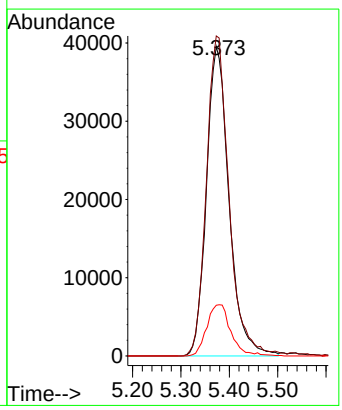


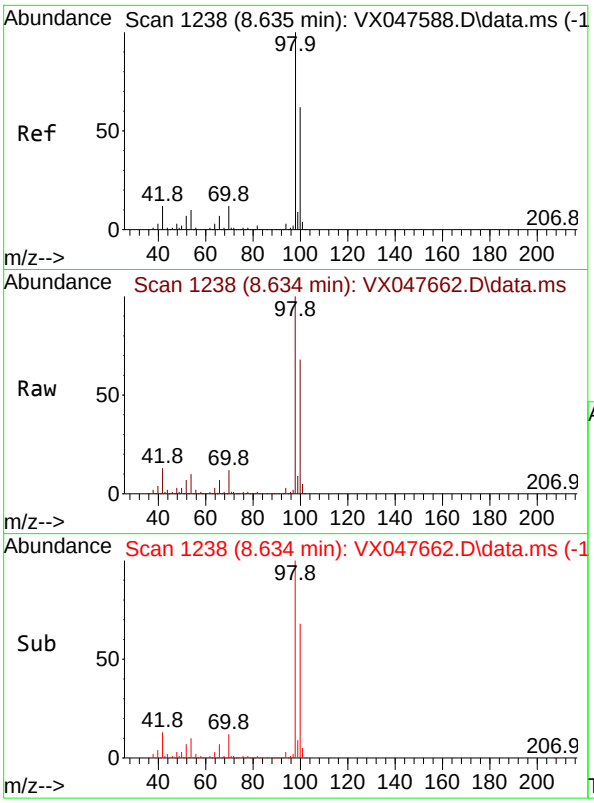


#35
Dibromofluoromethane
Concen: 52.530 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047662.D
Acq: 19 Sep 2025 10:11

Tgt Ion:113 Resp: 128166

Ion	Ratio	Lower	Upper
113	100		
111	103.8	80.9	121.3
192	17.7	14.2	21.4



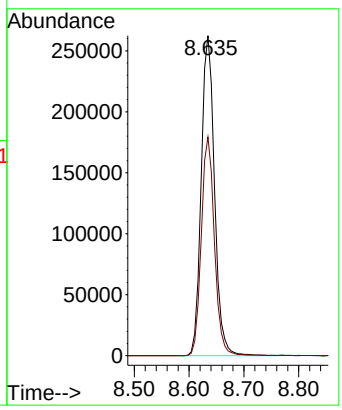


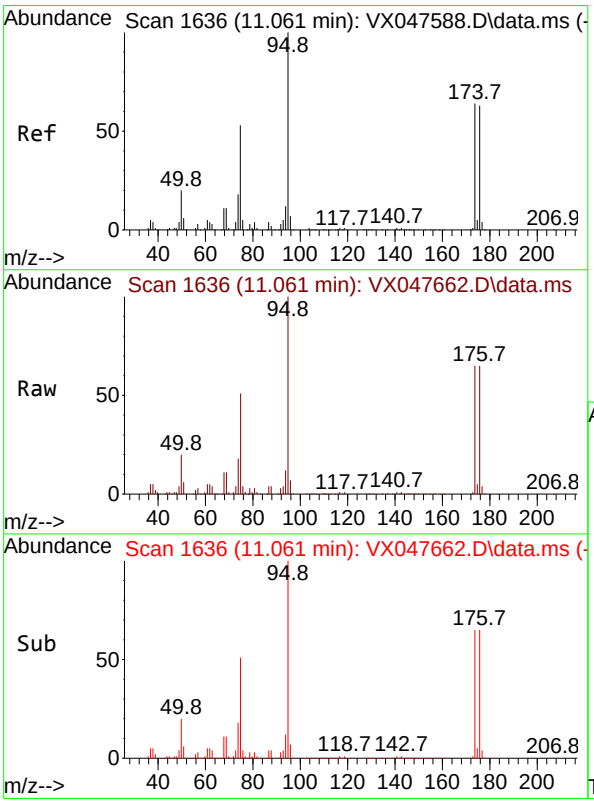
#50
Toluene-d8
Concen: 52.317 ug/l
RT: 8.634 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047662.D
Acq: 19 Sep 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBL01

Tgt Ion: 98 Resp: 441682

Ion	Ratio	Lower	Upper
98	100		
100	67.5	53.0	79.4

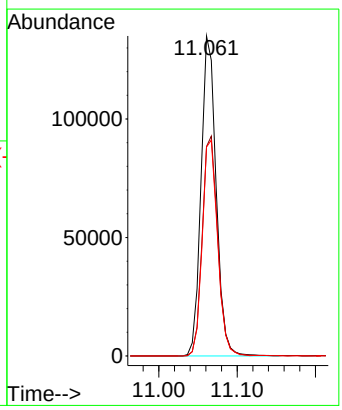


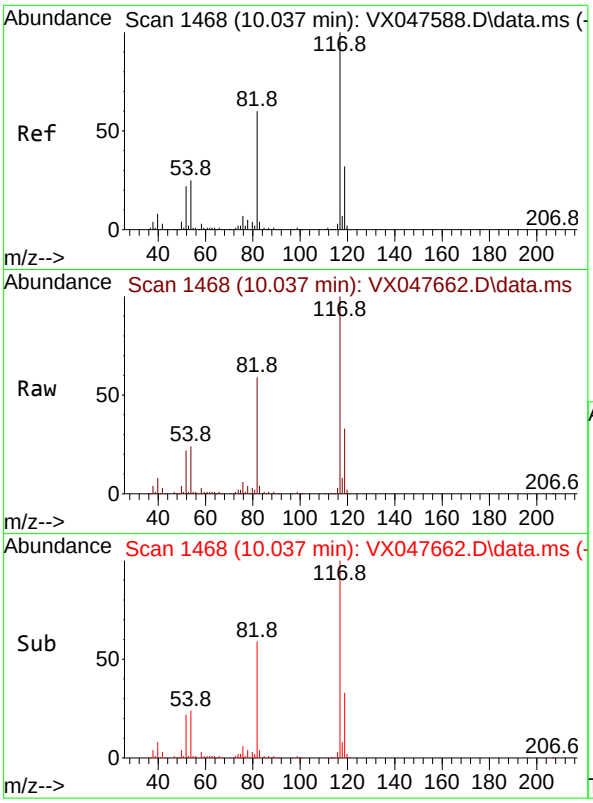


#62
4-Bromofluorobenzene
Concen: 56.319 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047662.D
Acq: 19 Sep 2025 10:11

Tgt Ion: 95 Resp: 180450

Ion	Ratio	Lower	Upper
95	100		
174	70.5	0.0	141.6
176	68.5	0.0	138.4



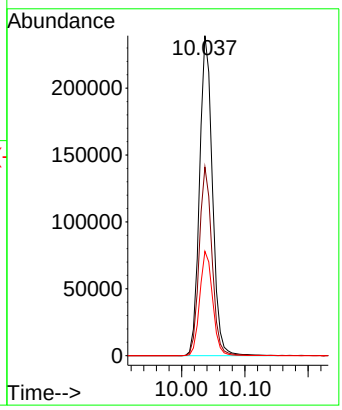


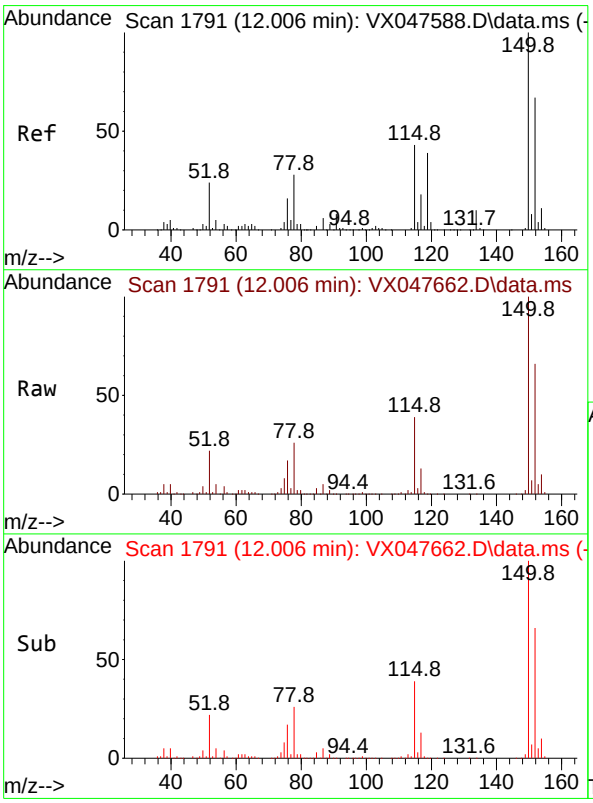
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047662.D
Acq: 19 Sep 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBL01

Tgt Ion:117 Resp: 339161

Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.8	71.6
119	32.6	25.2	37.8

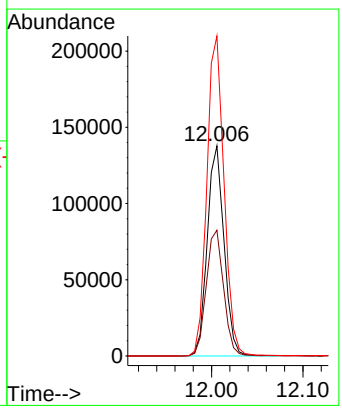




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047662.D
Acq: 19 Sep 2025 10:11

Tgt Ion:152 Resp: 175228

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.9	134.5
150	155.9	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0922WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0922WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047691.D	1	09/22/25 10:27	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0922WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0922WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047691.D	1	09/22/25 10:27	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.2		81 - 118		94%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	49.2		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	207000	5.538				
540-36-3	1,4-Difluorobenzene	375000	6.745				
3114-55-4	Chlorobenzene-d5	340000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	164000	12.006				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0922WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0922WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047691.D	1	09/22/25 10:27	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047691.D
Acq On : 22 Sep 2025 10:27
Operator : JC/MD
Sample : VX0922WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBL01

Quant Time: Sep 23 01:28:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

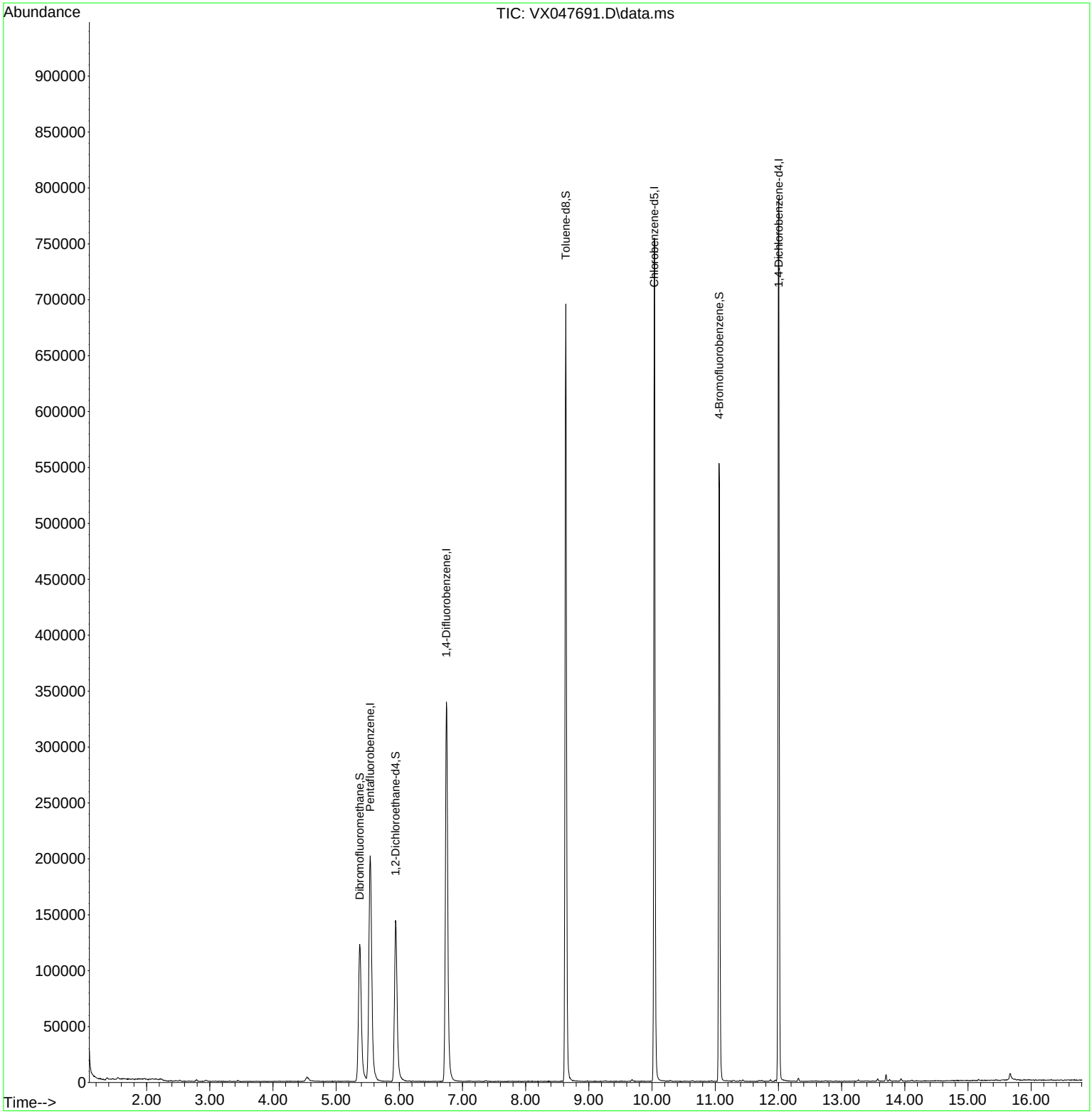
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	207294	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	374581	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	340485	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	164144	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	155785	47.213	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 94.420%			
35) Dibromofluoromethane	5.373	113	120877	48.117	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.240%			
50) Toluene-d8	8.635	98	428049	49.243	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.480%			
62) 4-Bromofluorobenzene	11.061	95	163241	49.482	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.960%			
Target Compounds						Qvalue

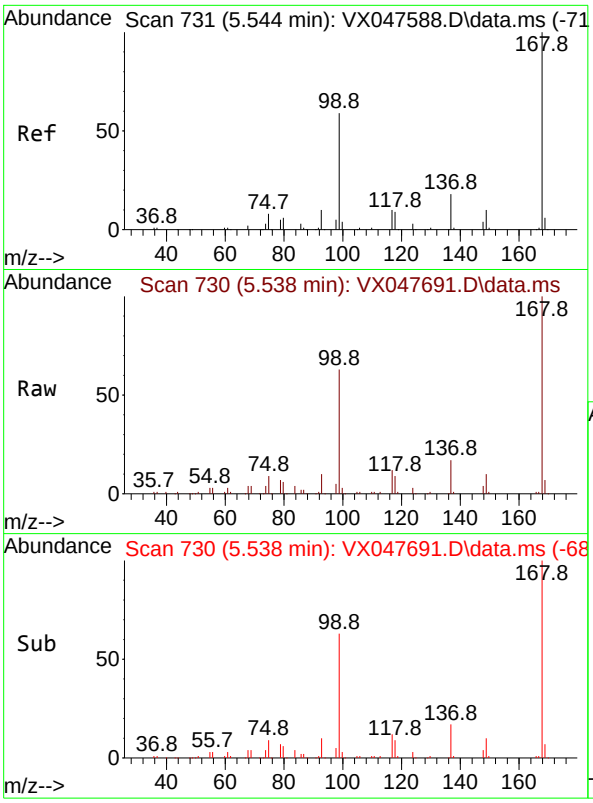
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047691.D
Acq On : 22 Sep 2025 10:27
Operator : JC/MD
Sample : VX0922WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBL01

Quant Time: Sep 23 01:28:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



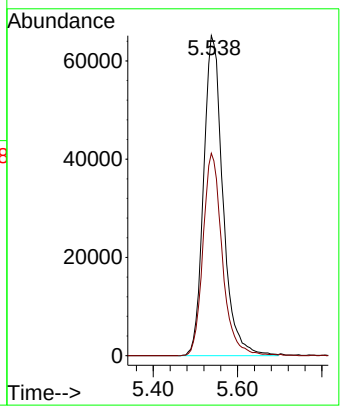


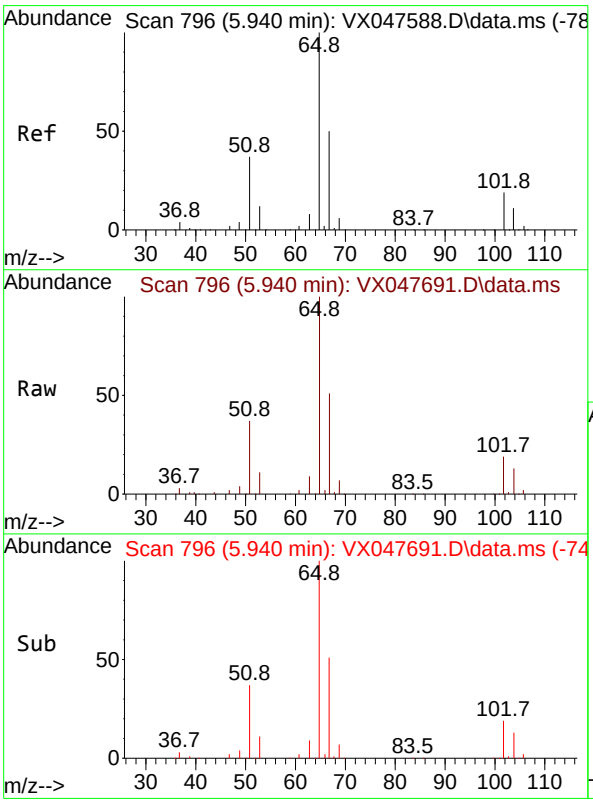
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047691.D
Acq: 22 Sep 2025 10:27

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBL01

Tgt Ion:168 Resp: 207294

Ion	Ratio	Lower	Upper
168	100		
99	63.2	48.8	73.2

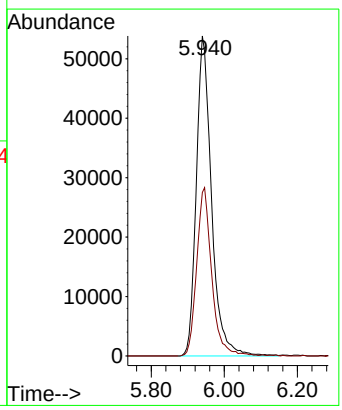


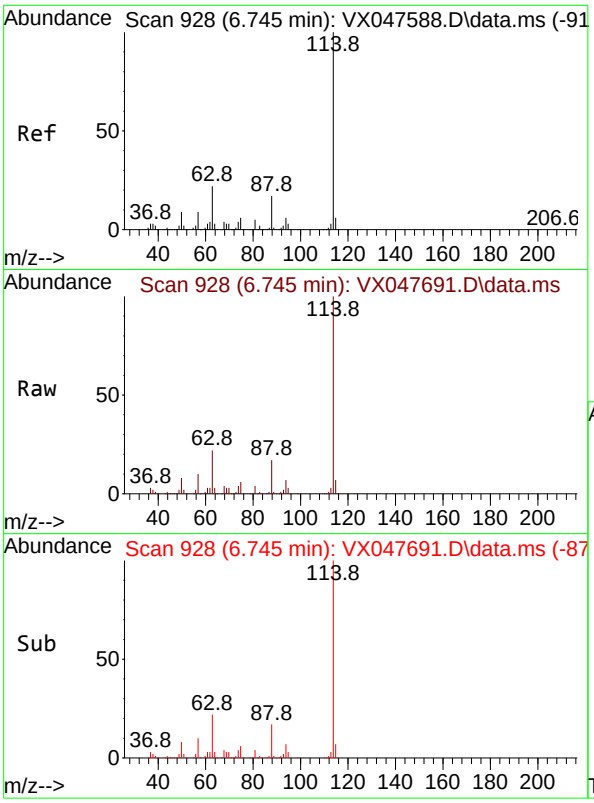


#33
1,2-Dichloroethane-d4
Concen: 47.213 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047691.D
Acq: 22 Sep 2025 10:27

Tgt Ion: 65 Resp: 155785

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	103.0



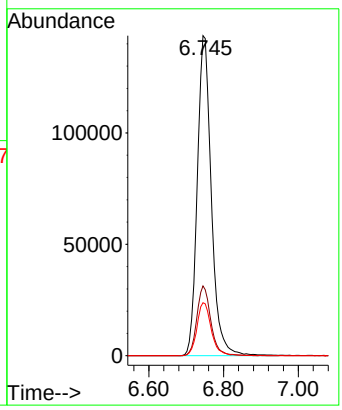


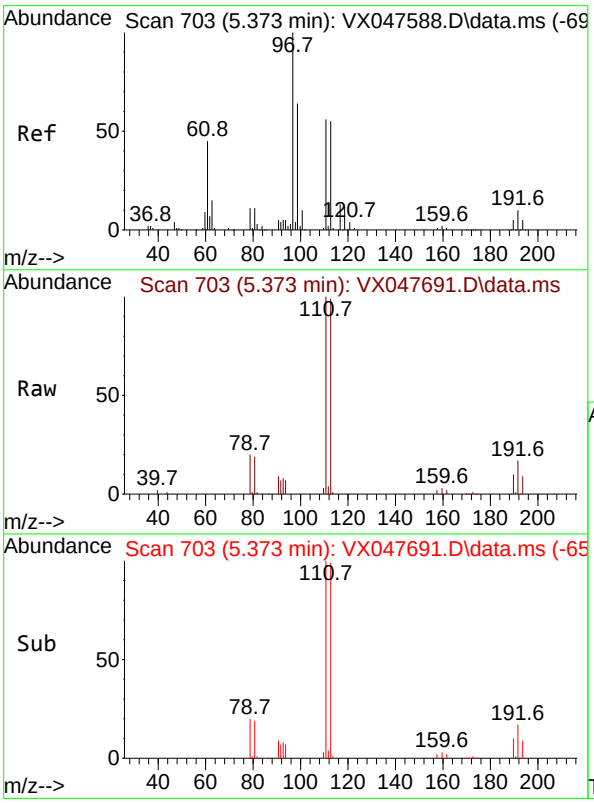
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047691.D
Acq: 22 Sep 2025 10:27

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBL01

Tgt Ion:114 Resp: 374581

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.0
88	16.6	0.0	34.2

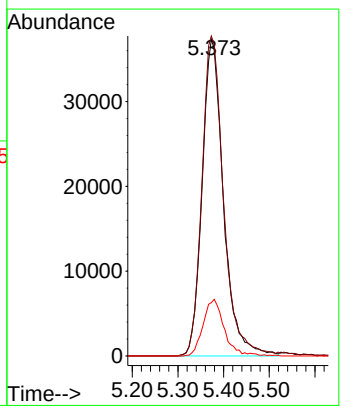


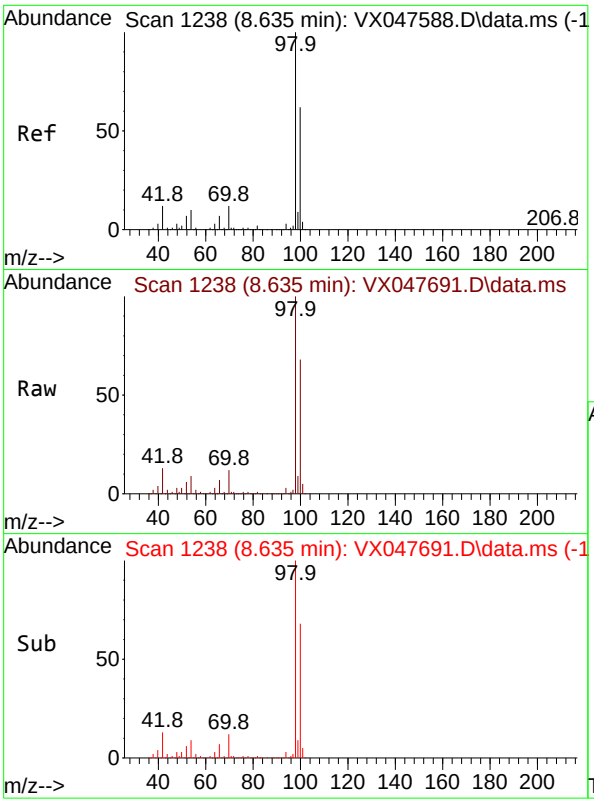


#35
Dibromofluoromethane
Concen: 48.117 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047691.D
Acq: 22 Sep 2025 10:27

Tgt Ion:113 Resp: 120877

Ion	Ratio	Lower	Upper
113	100		
111	102.5	80.9	121.3
192	17.7	14.2	21.4



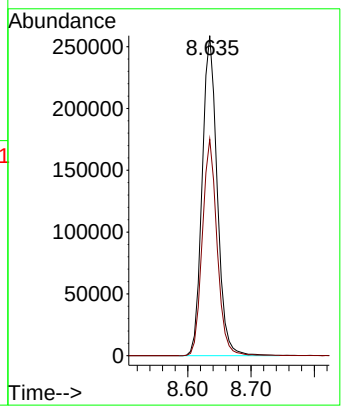


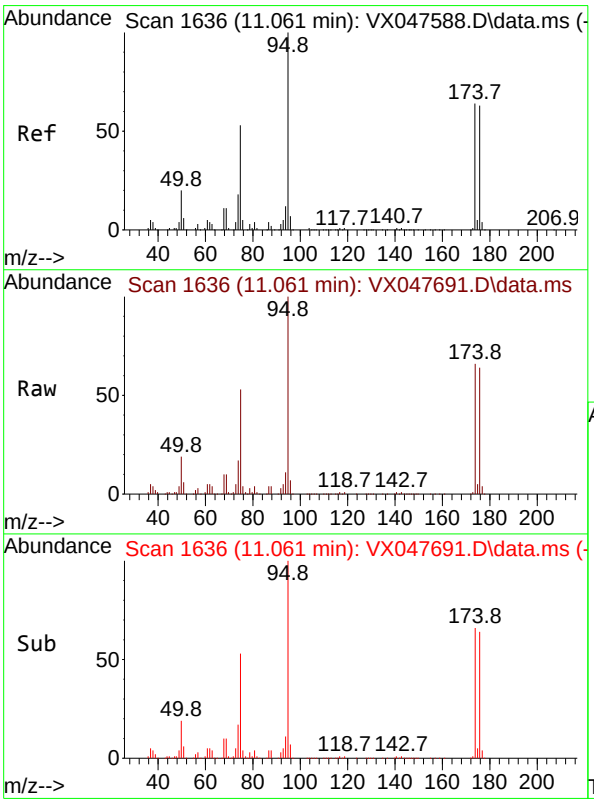
#50
Toluene-d8
Concen: 49.243 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047691.D
Acq: 22 Sep 2025 10:27

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBL01

Tgt Ion: 98 Resp: 428049

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.4

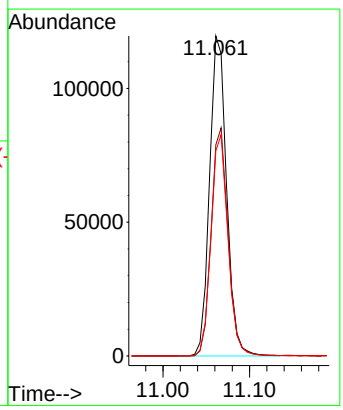


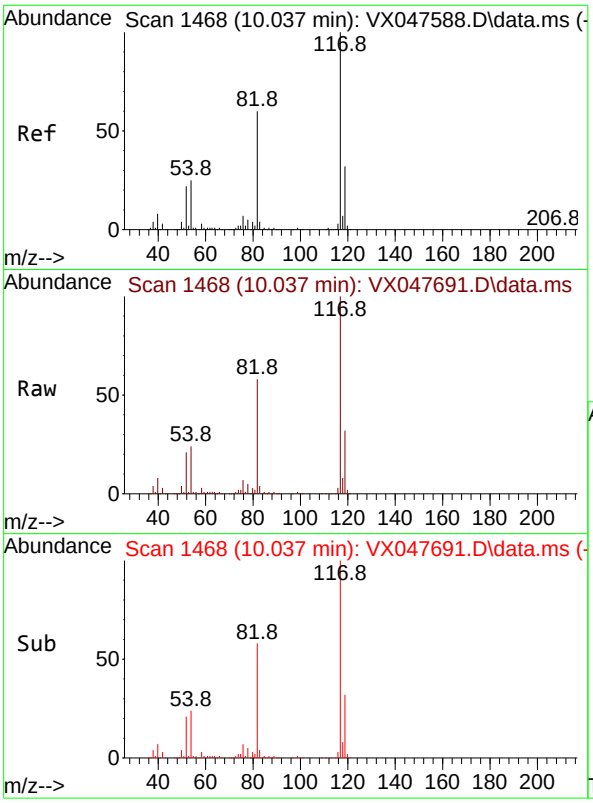


#62
4-Bromofluorobenzene
Concen: 49.482 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047691.D
Acq: 22 Sep 2025 10:27

Tgt Ion: 95 Resp: 163241

Ion	Ratio	Lower	Upper
95	100		
174	70.9	0.0	141.6
176	68.8	0.0	138.4



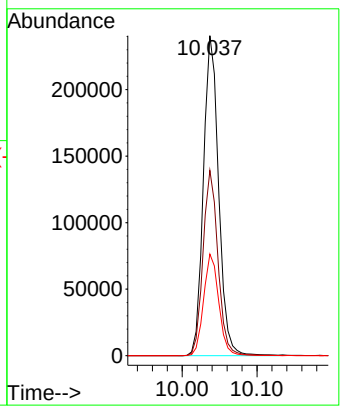


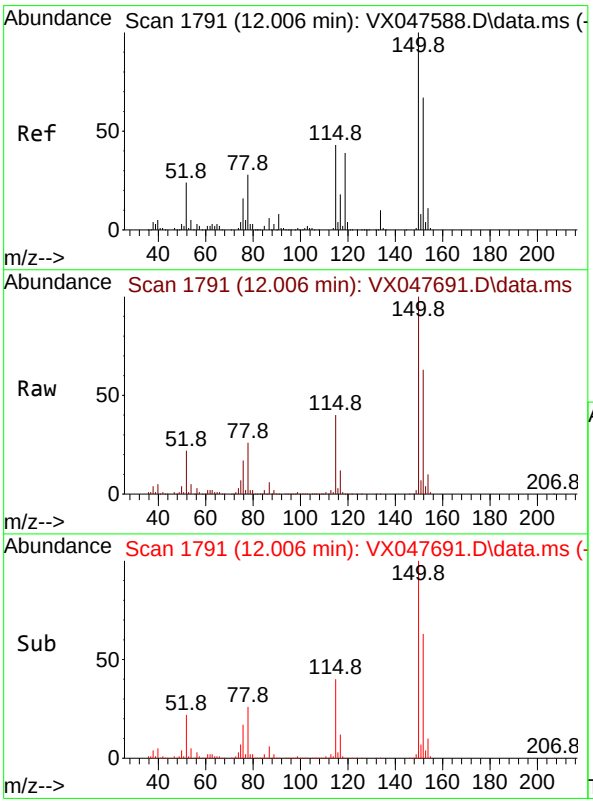
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047691.D
Acq: 22 Sep 2025 10:27

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBL01

Tgt Ion:117 Resp: 340485

Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.8	71.6
119	31.8	25.2	37.8

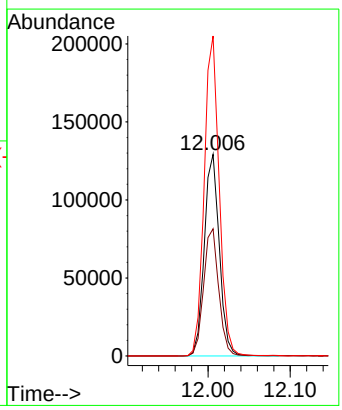




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047691.D
Acq: 22 Sep 2025 10:27

Tgt Ion:152 Resp: 164144

Ion	Ratio	Lower	Upper
152	100		
115	63.6	44.9	134.5
150	158.1	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0923WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047721.D	1	09/23/25 10:22	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0923WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047721.D	1	09/23/25 10:22	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.6		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	48.0		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		85 - 114		113%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	119000	5.531				
540-36-3	1,4-Difluorobenzene	249000	6.739				
3114-55-4	Chlorobenzene-d5	254000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	133000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0923WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047721.D	1	09/23/25 10:22	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047721.D
Acq On : 23 Sep 2025 10:22
Operator : JC/MD
Sample : VX0923WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Quant Time: Sep 24 01:26:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	119065	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	248954	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	254277	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	132951	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	95920	50.612	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.220%			
35) Dibromofluoromethane	5.373	113	79691	47.730	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.460%			
50) Toluene-d8	8.635	98	277020	47.950	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.900%			
62) 4-Bromofluorobenzene	11.061	95	123900	56.509	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.020%			

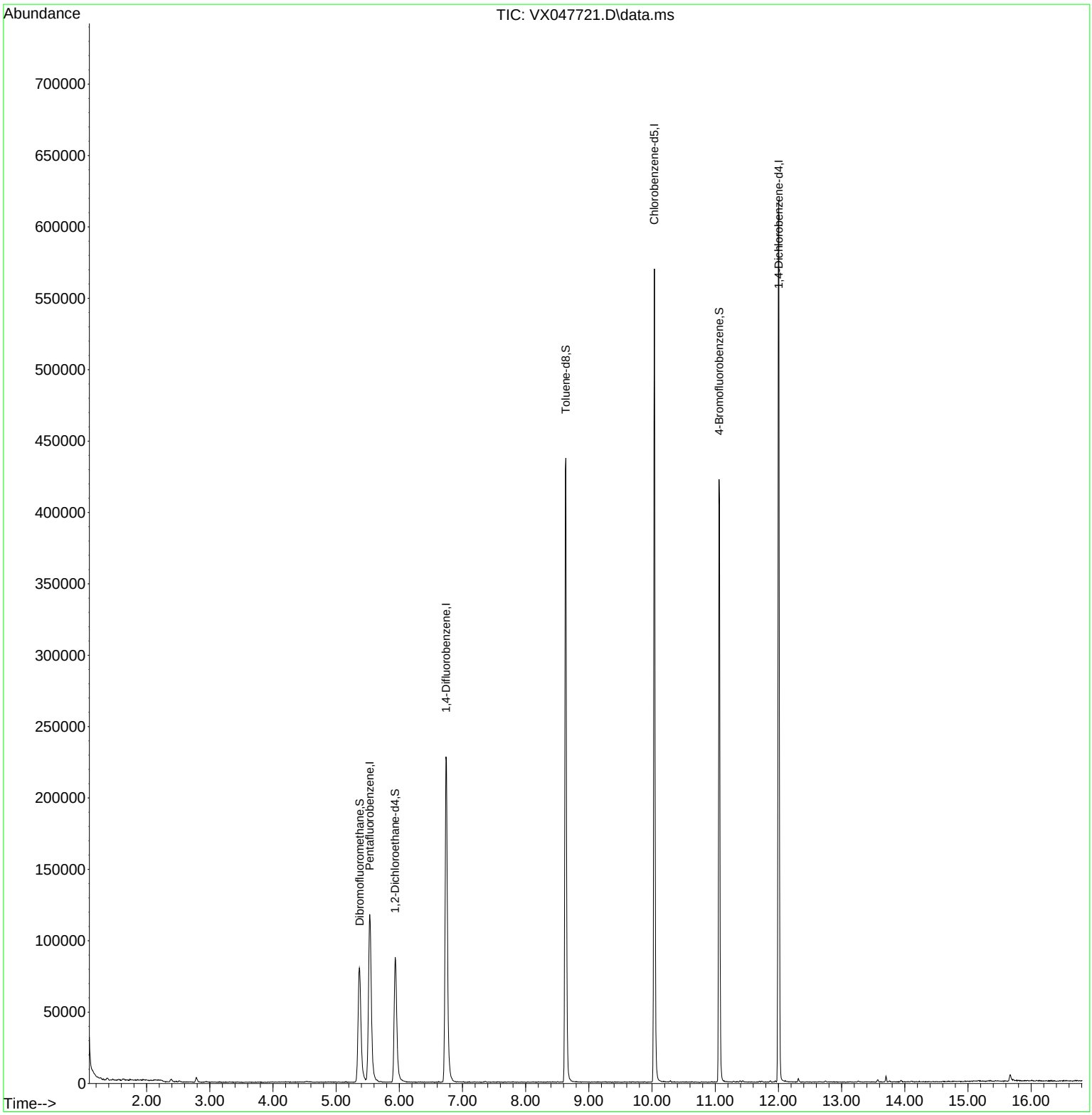
Target Compounds Qvalue

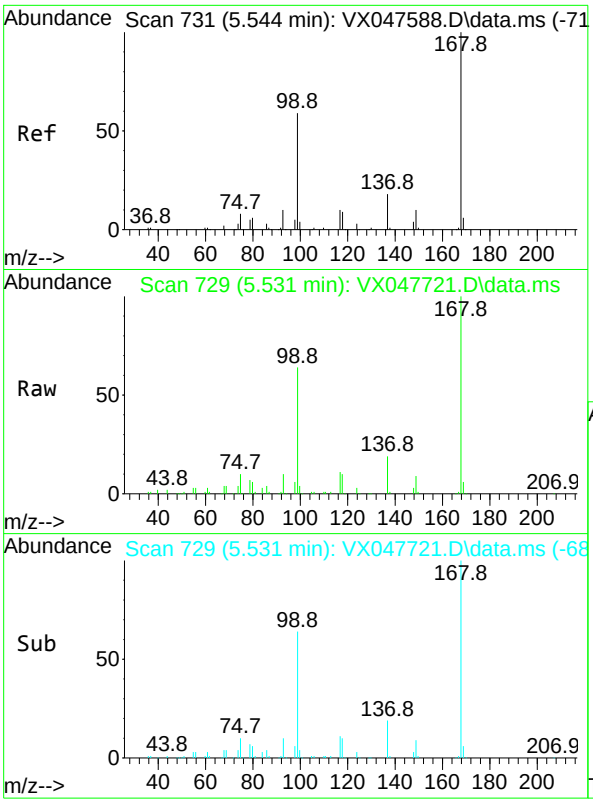
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047721.D
Acq On : 23 Sep 2025 10:22
Operator : JC/MD
Sample : VX0923WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Quant Time: Sep 24 01:26:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



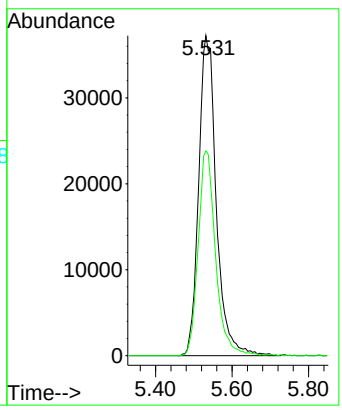


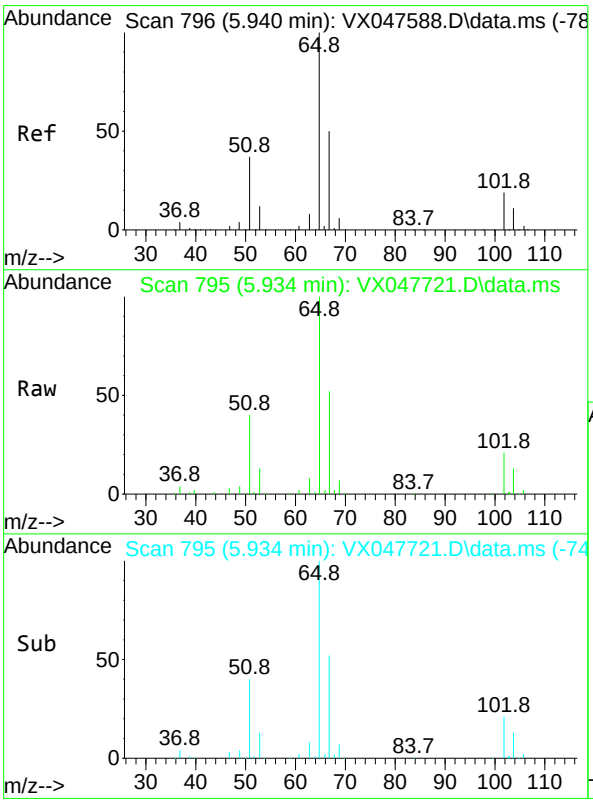
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Tgt Ion:168 Resp: 119065

Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2

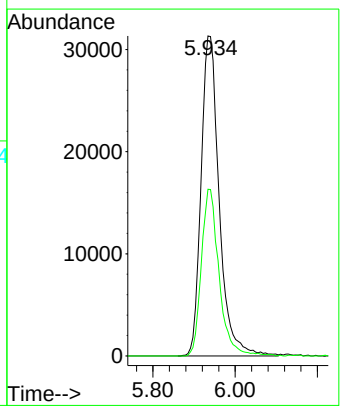


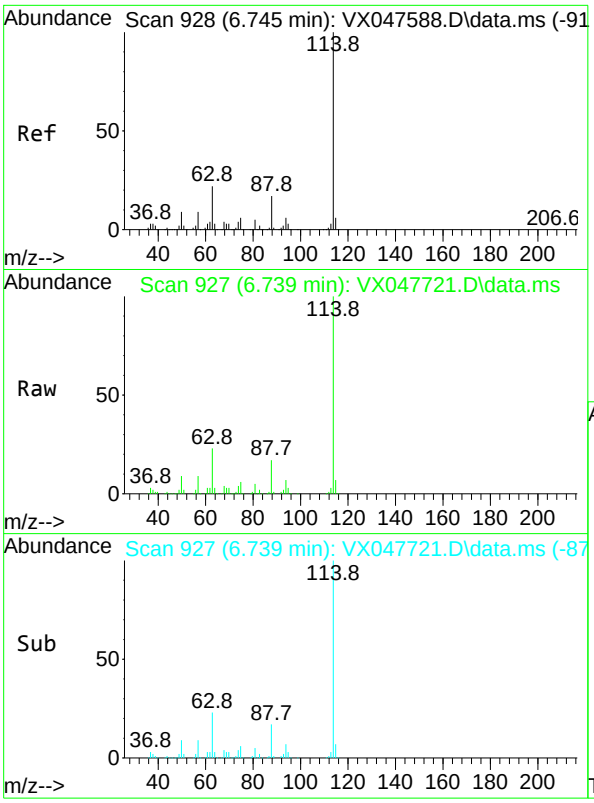


#33
1,2-Dichloroethane-d4
Concen: 50.612 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Tgt Ion: 65 Resp: 95920

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	103.0



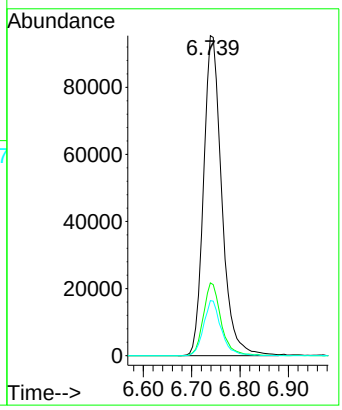


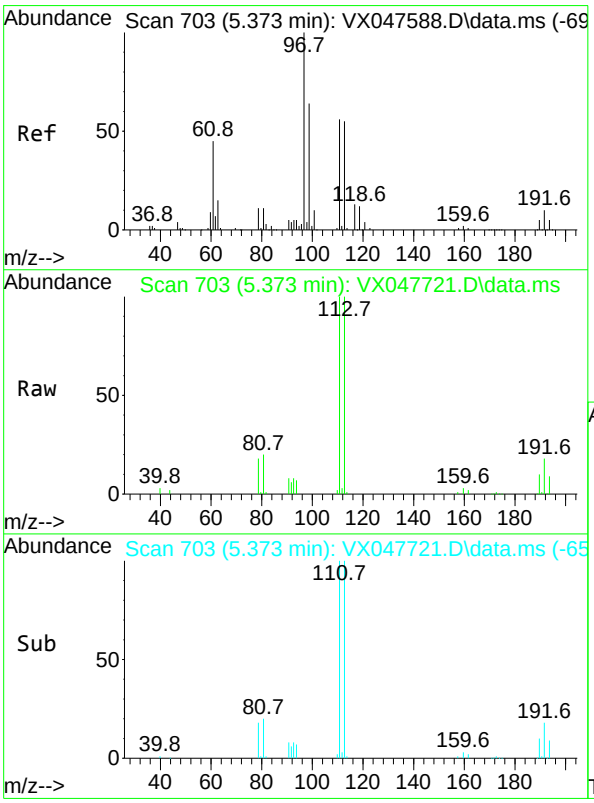
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Tgt Ion:114 Resp: 248954

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	44.0
88	17.2	0.0	34.2

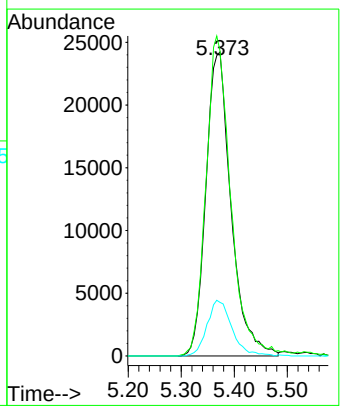


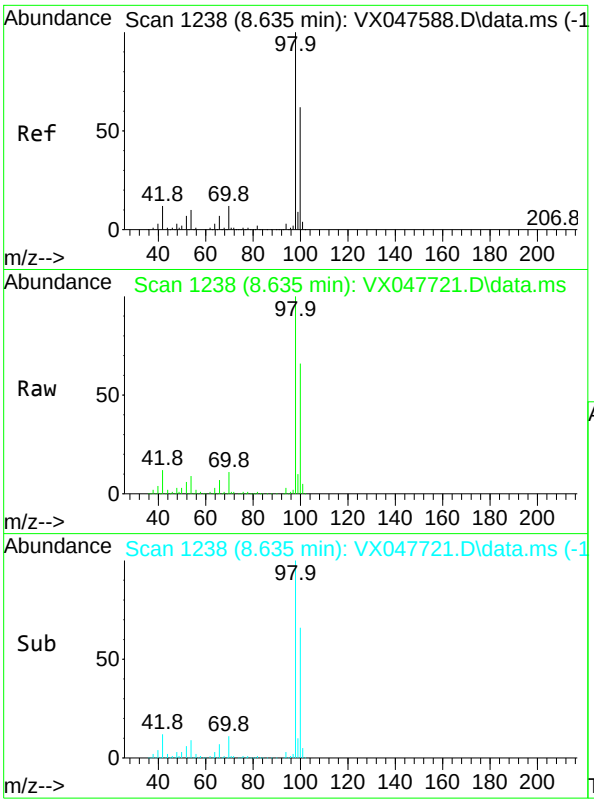


#35
Dibromofluoromethane
Concen: 47.730 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Tgt Ion:113 Resp: 79691

Ion	Ratio	Lower	Upper
113	100		
111	103.9	80.9	121.3
192	18.1	14.2	21.4



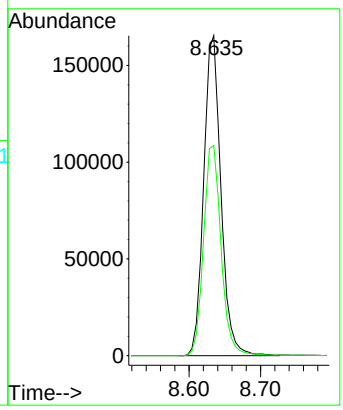


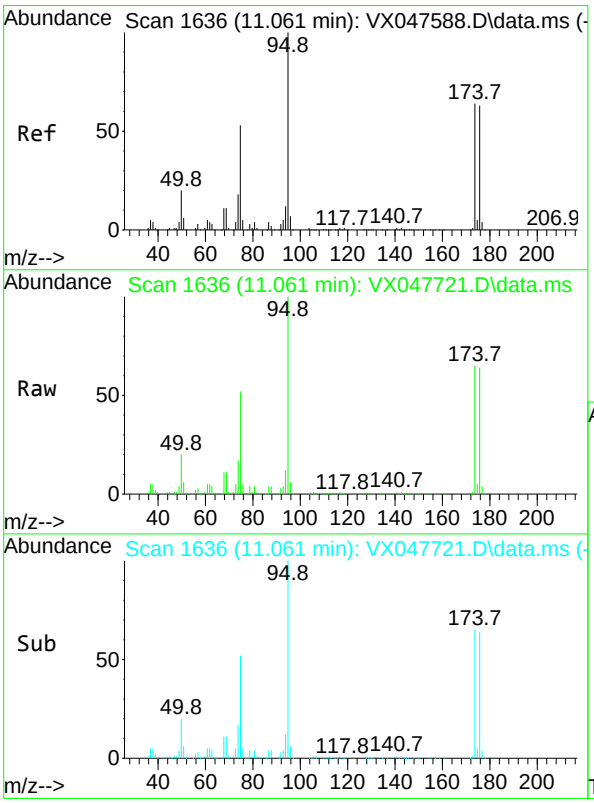
#50
Toluene-d8
Concen: 47.950 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Tgt Ion: 98 Resp: 277020

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4

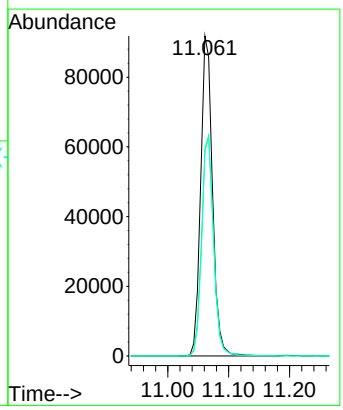


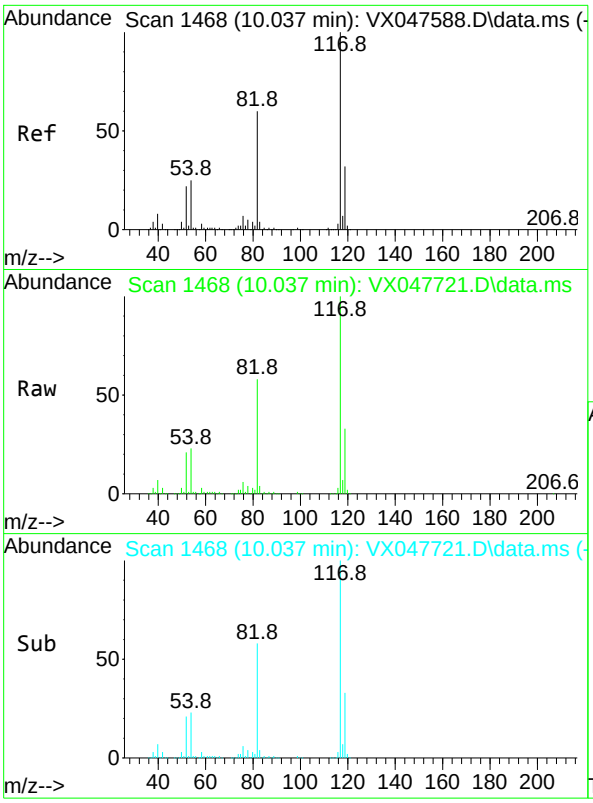


#62
4-Bromofluorobenzene
Concen: 56.509 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Tgt Ion: 95 Resp: 123900

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	141.6
176	68.4	0.0	138.4



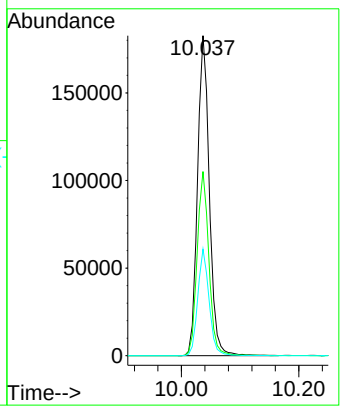


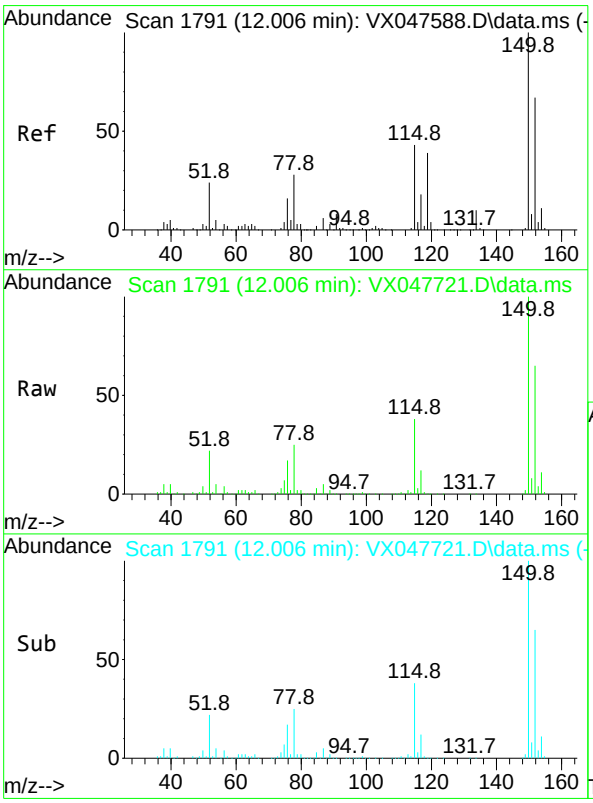
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL01

Tgt Ion:117 Resp: 254277

Ion	Ratio	Lower	Upper
117	100		
82	57.6	47.8	71.6
119	33.3	25.2	37.8

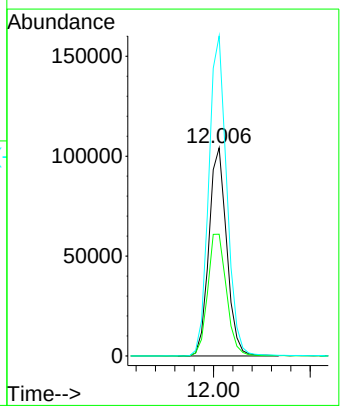




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047721.D
Acq: 23 Sep 2025 10:22

Tgt Ion:152 Resp: 132951

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.9	134.5
150	156.0	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBL02	SDG No.:	Q3097
Lab Sample ID:	VX0923WBL02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047747.D	1	09/24/25 03:11	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBL02	SDG No.:	Q3097
Lab Sample ID:	VX0923WBL02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047747.D	1	09/24/25 03:11	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.7		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	197000	5.544				
540-36-3	1,4-Difluorobenzene	378000	6.751				
3114-55-4	Chlorobenzene-d5	356000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	171000	12.006				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBL02	SDG No.:	Q3097
Lab Sample ID:	VX0923WBL02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047747.D	1	09/24/25 03:11	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047747.D
Acq On : 24 Sep 2025 03:11
Operator : JC/MD
Sample : VX0923WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Quant Time: Sep 24 03:44:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

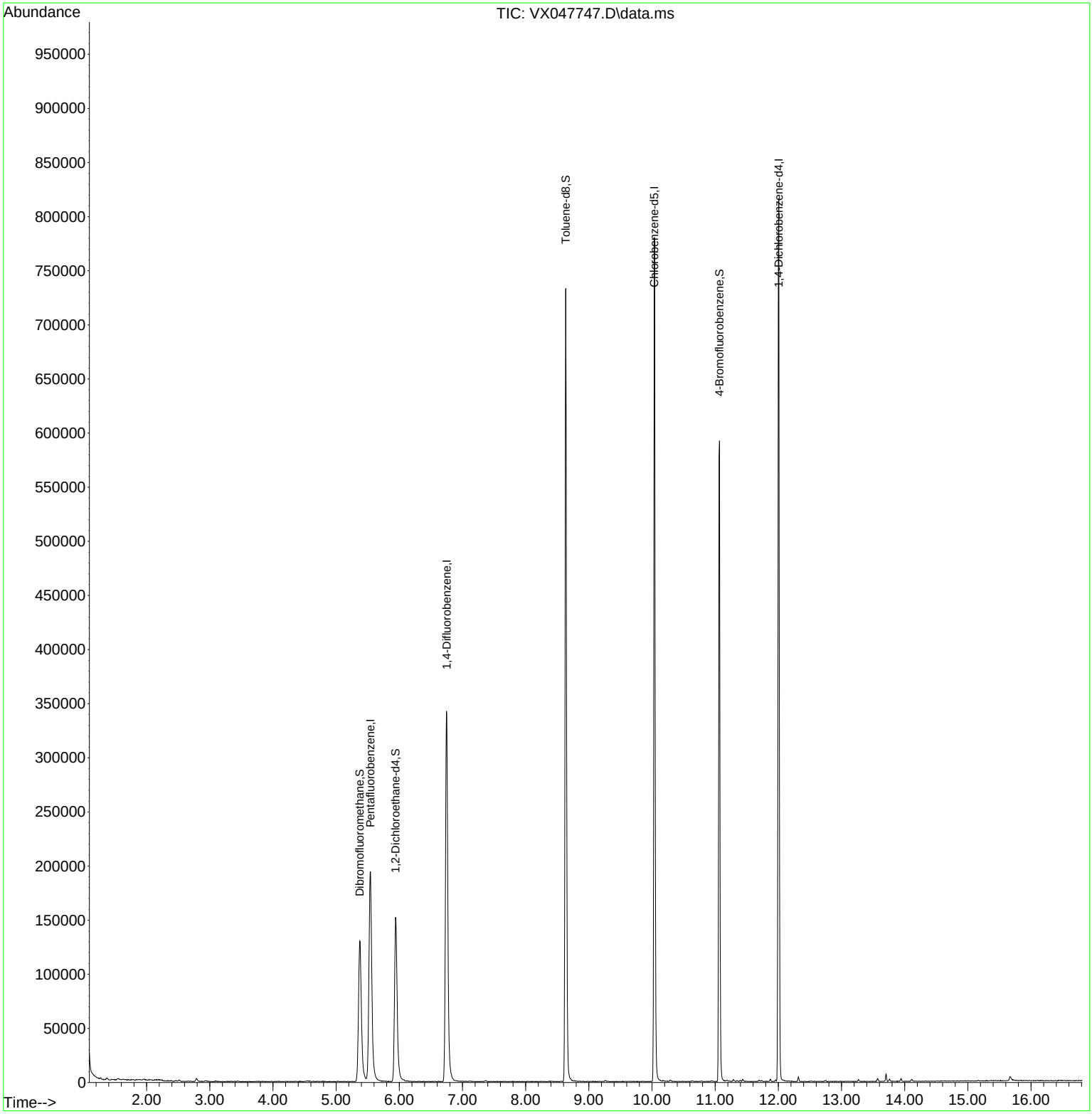
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	197095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	377977	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	356070	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	171478	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	162215	51.706	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.420%			
35) Dibromofluoromethane	5.373	113	128776	50.801	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.600%			
50) Toluene-d8	8.635	98	440529	50.224	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.440%			
62) 4-Bromofluorobenzene	11.067	95	172255	51.746	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.500%			
Target Compounds						Qvalue

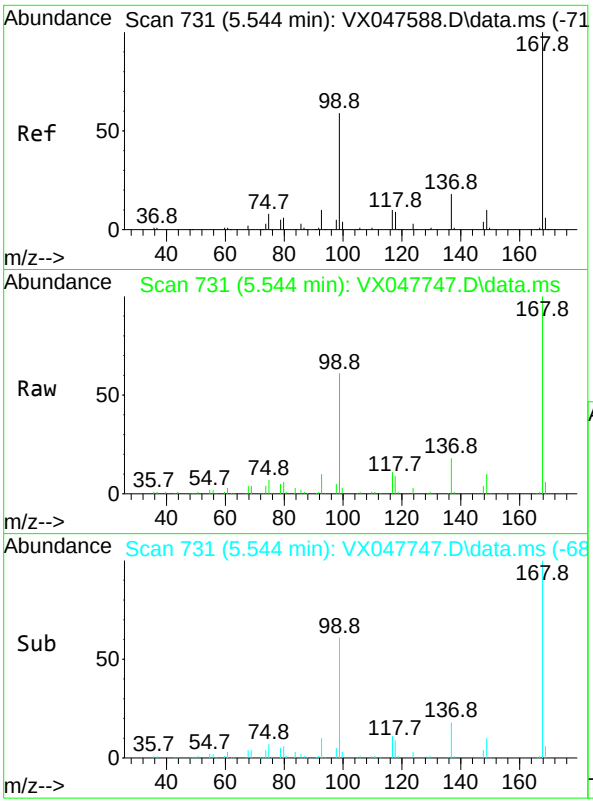
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047747.D
Acq On : 24 Sep 2025 03:11
Operator : JC/MD
Sample : VX0923WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Quant Time: Sep 24 03:44:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



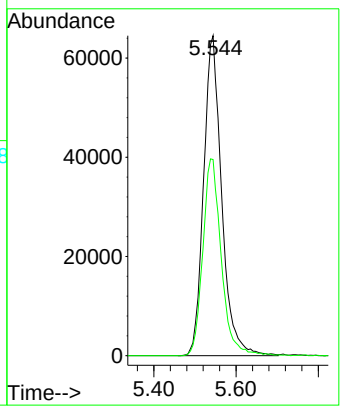


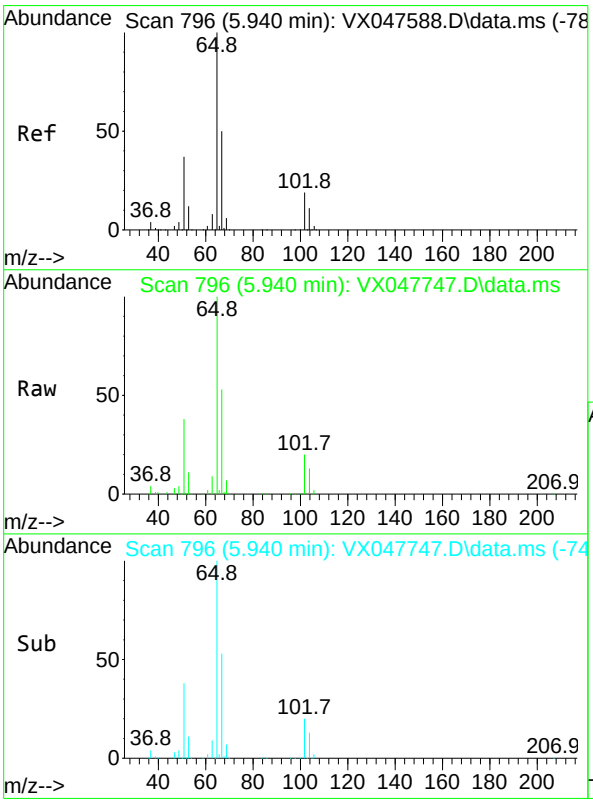
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Tgt Ion:168 Resp: 197095

Ion	Ratio	Lower	Upper
168	100		
99	61.3	48.8	73.2

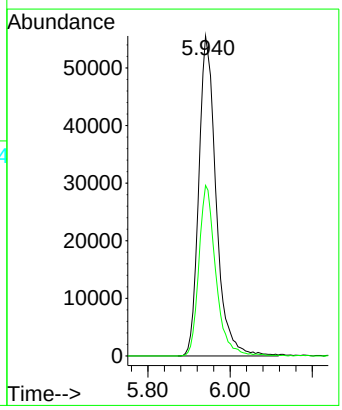


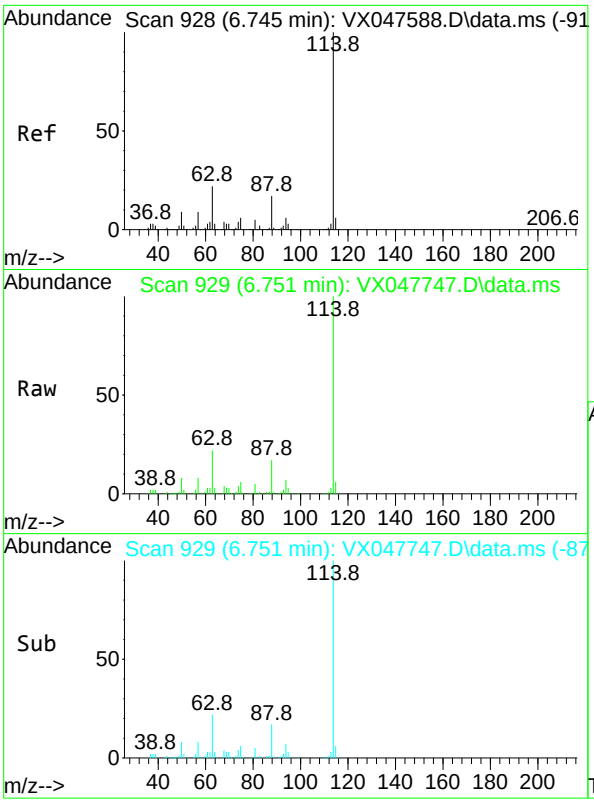


#33
1,2-Dichloroethane-d4
Concen: 51.706 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Tgt Ion: 65 Resp: 162215

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	103.0



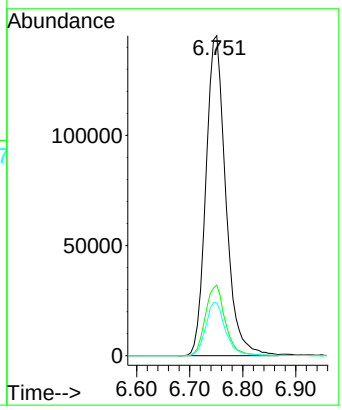


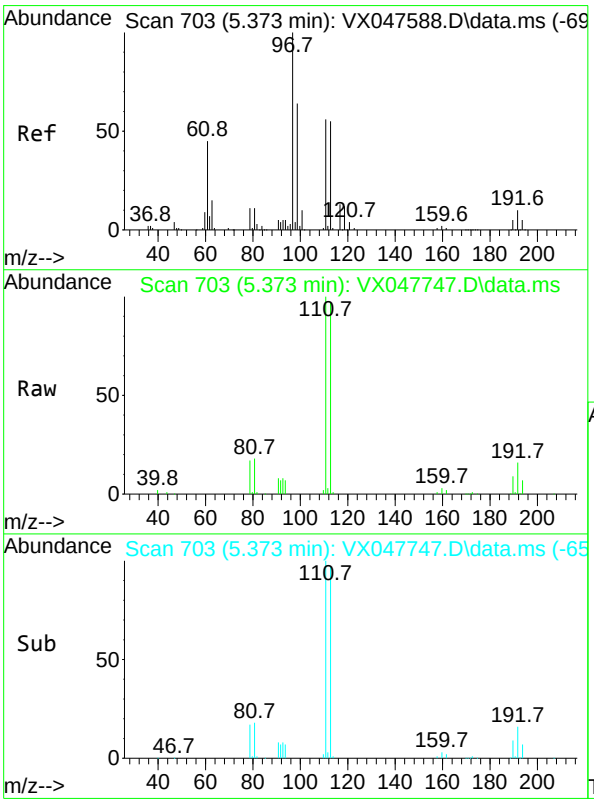
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Tgt Ion:114 Resp: 377977

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.0
88	16.5	0.0	34.2

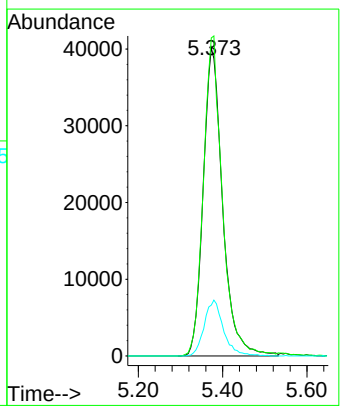


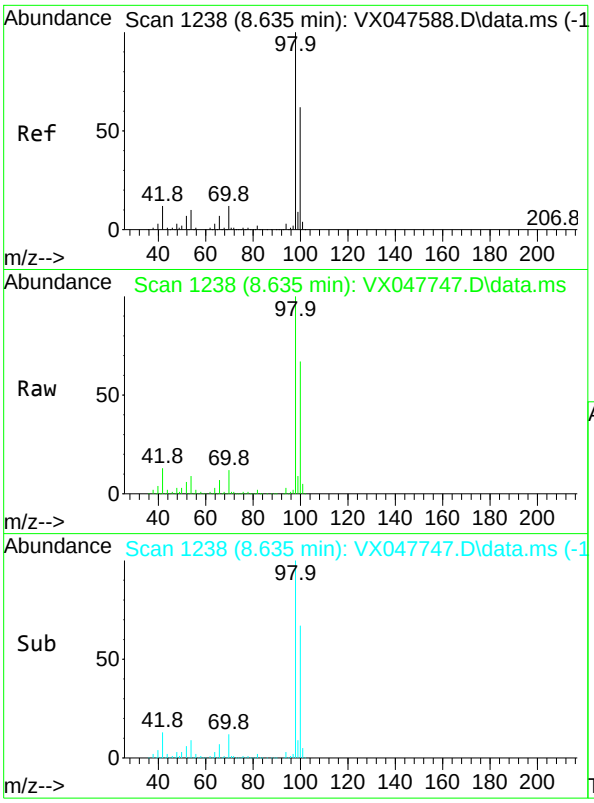


#35
Dibromofluoromethane
Concen: 50.801 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Tgt Ion:113 Resp: 128776

Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.9	121.3
192	18.0	14.2	21.4



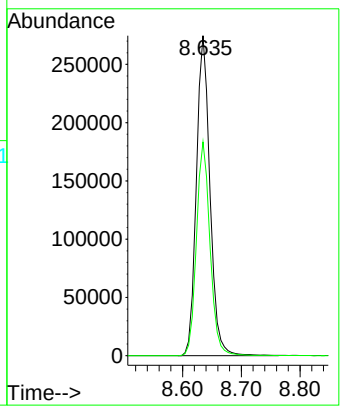


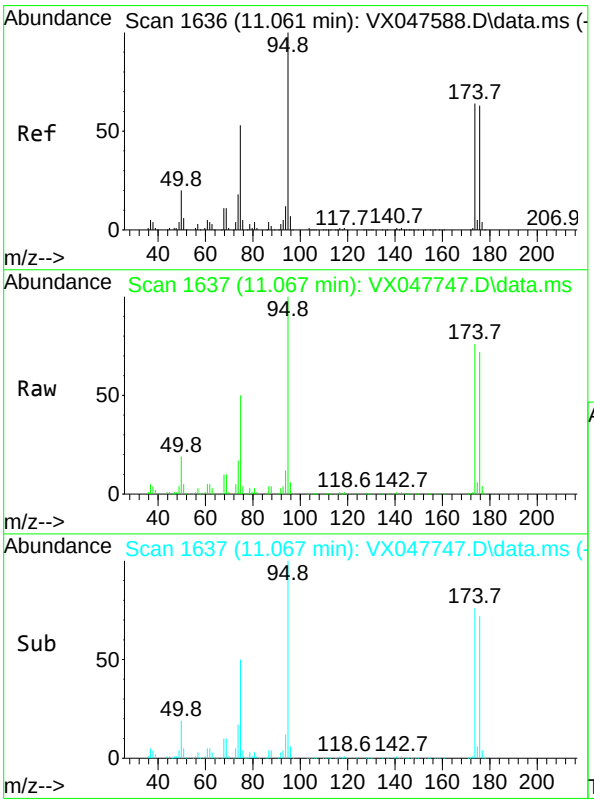
#50
Toluene-d8
Concen: 50.224 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Tgt Ion: 98 Resp: 440529

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4

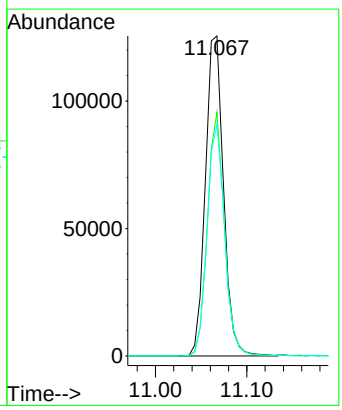


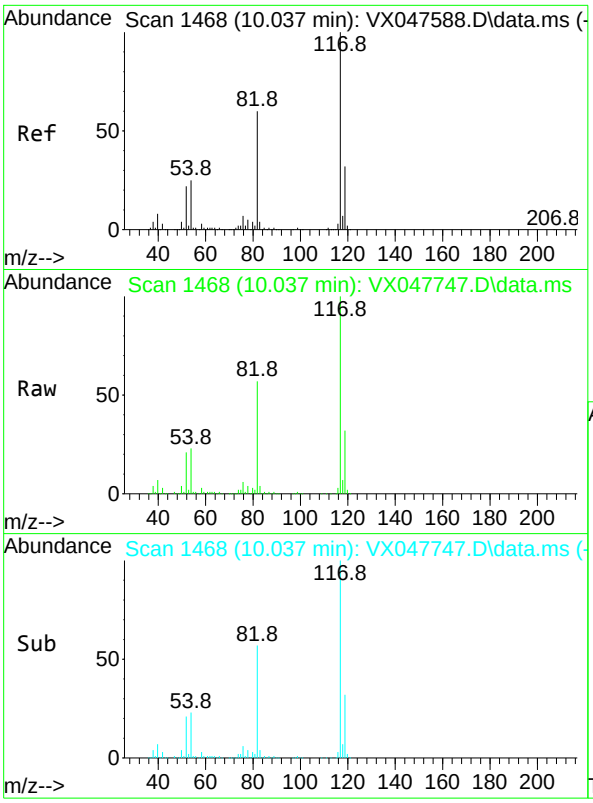


#62
4-Bromofluorobenzene
Concen: 51.746 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Tgt Ion: 95 Resp: 172255

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	141.6
176	70.3	0.0	138.4



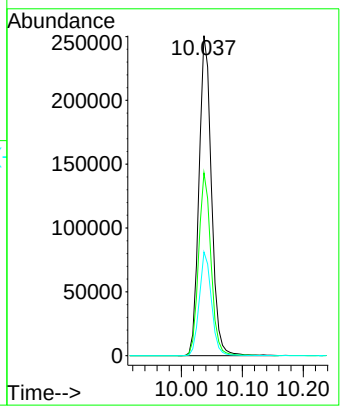


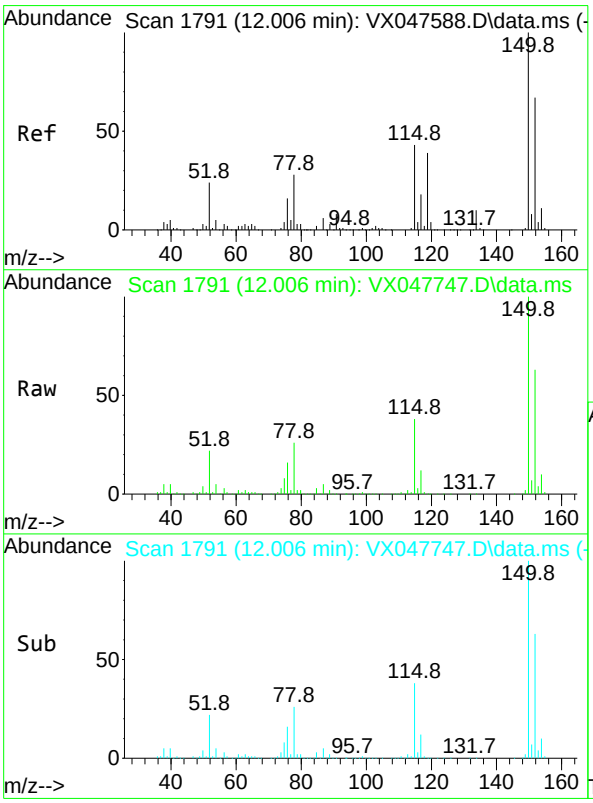
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBL02

Tgt Ion:117 Resp: 356070

Ion	Ratio	Lower	Upper
117	100		
82	57.1	47.8	71.6
119	32.4	25.2	37.8

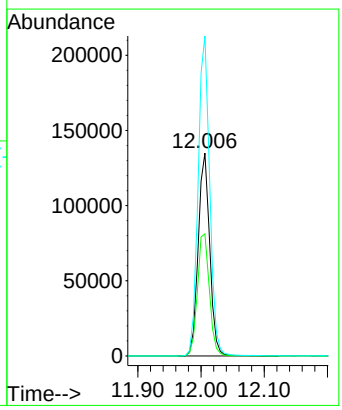




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047747.D
Acq: 24 Sep 2025 03:11

Tgt Ion:152 Resp: 171478

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.9	134.5
150	158.1	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0924WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0924WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047771.D	1	09/24/25 13:04	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0924WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0924WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047771.D	1	09/24/25 13:04	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.1		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	48.1		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	122000	5.531				
540-36-3	1,4-Difluorobenzene	251000	6.745				
3114-55-4	Chlorobenzene-d5	250000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	123000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0924WBL01	SDG No.:	Q3097
Lab Sample ID:	VX0924WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047771.D	1	09/24/25 13:04	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047771.D
Acq On : 24 Sep 2025 13:04
Operator : JC/MD
Sample : VX0924WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBL01

Quant Time: Sep 25 01:13:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	121515	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	250677	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	250409	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	123109	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	94980	49.105	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.220%			
35) Dibromofluoromethane	5.367	113	79063	47.028	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.060%			
50) Toluene-d8	8.635	98	279765	48.093	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.180%			
62) 4-Bromofluorobenzene	11.061	95	115416	52.278	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.560%			

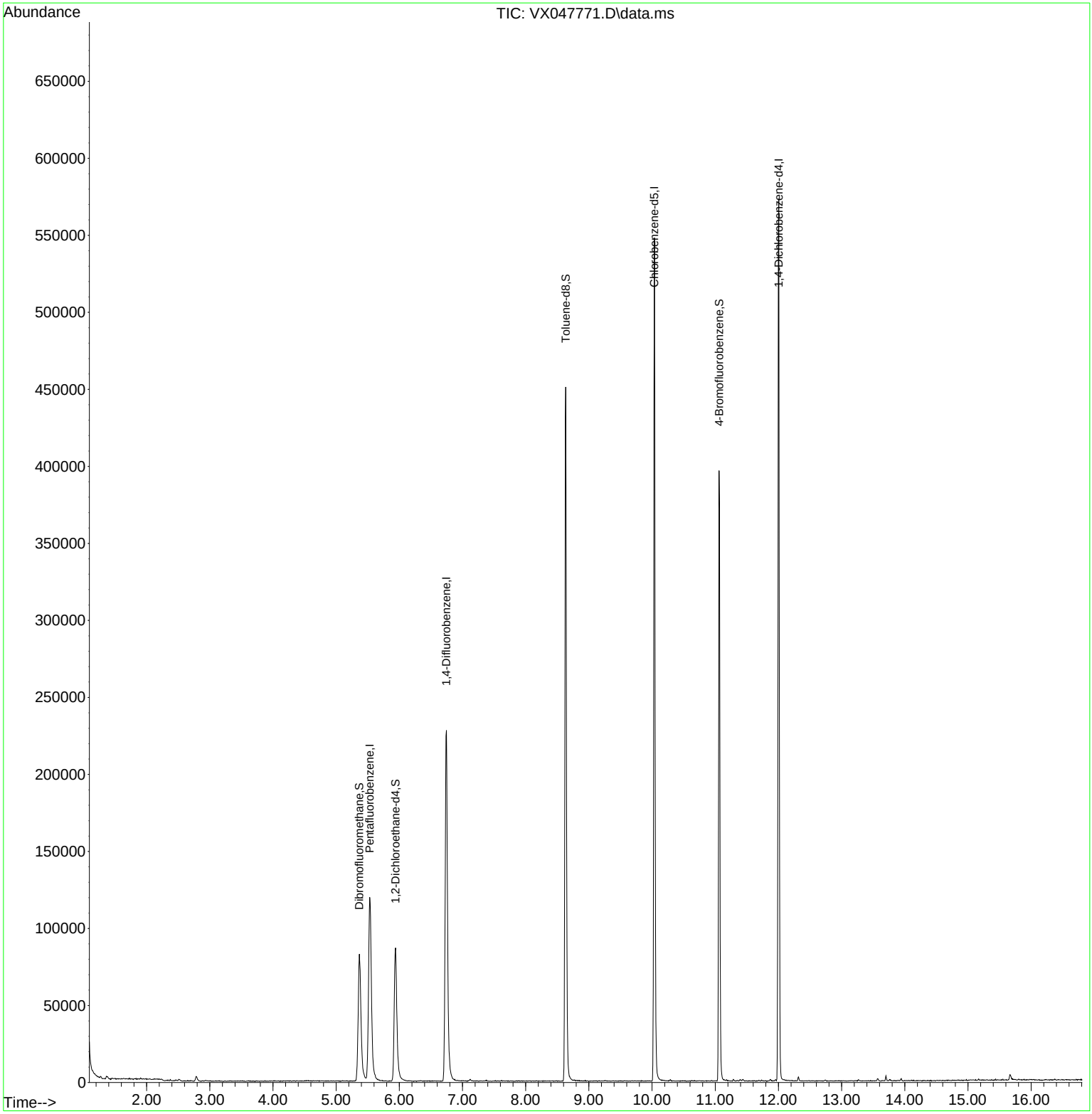
Target Compounds Qvalue

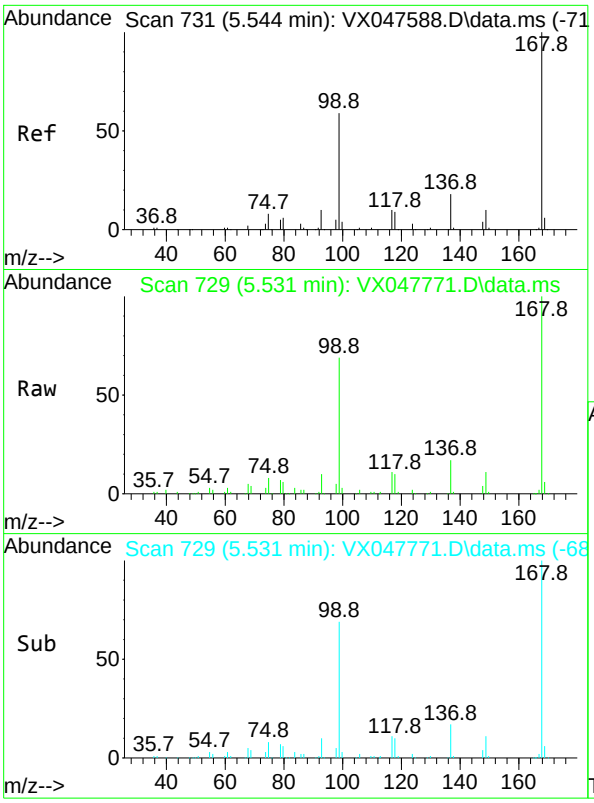
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047771.D
Acq On : 24 Sep 2025 13:04
Operator : JC/MD
Sample : VX0924WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBL01

Quant Time: Sep 25 01:13:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



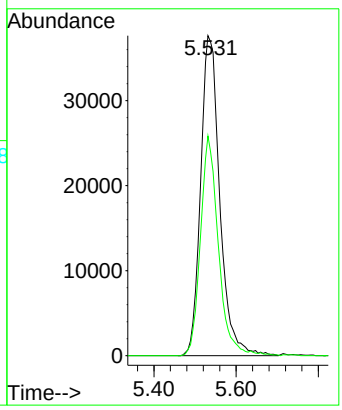


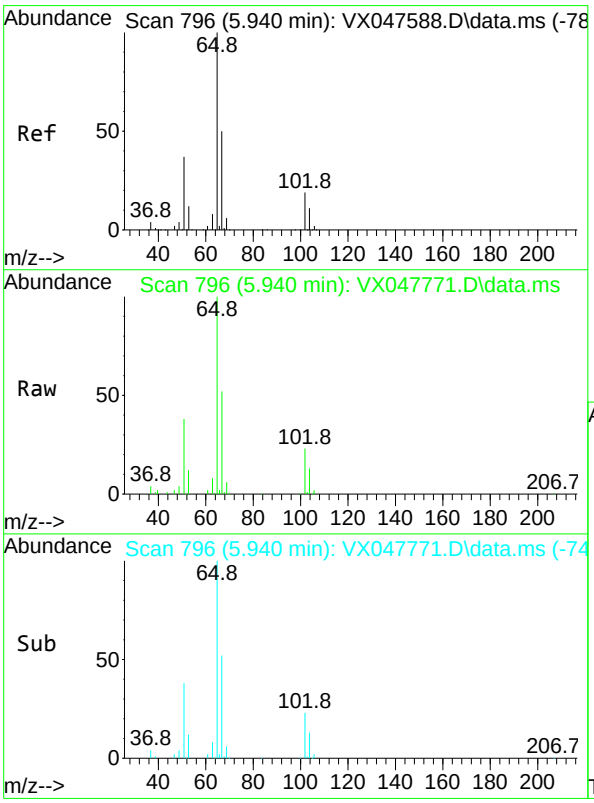
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047771.D
Acq: 24 Sep 2025 13:04

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBL01

Tgt Ion:168 Resp: 121515

Ion	Ratio	Lower	Upper
168	100		
99	68.6	48.8	73.2

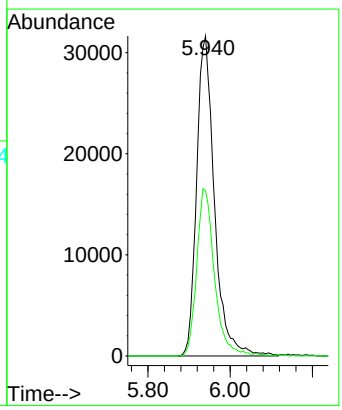


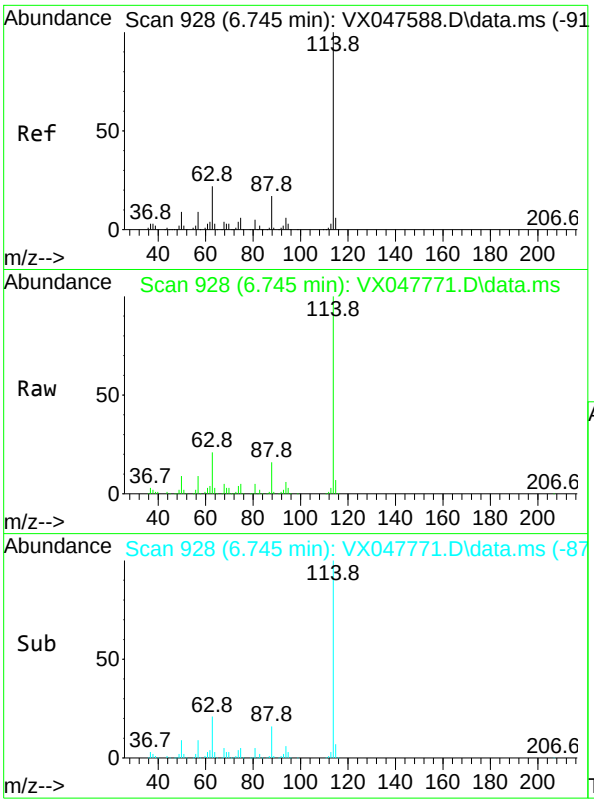


#33
1,2-Dichloroethane-d4
Concen: 49.105 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047771.D
Acq: 24 Sep 2025 13:04

Tgt Ion: 65 Resp: 94980

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.0



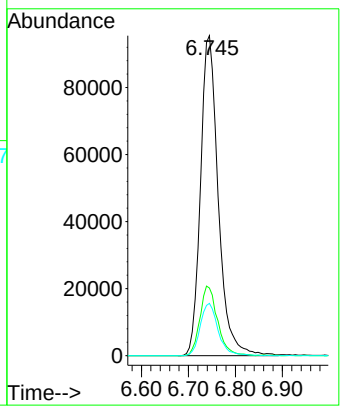


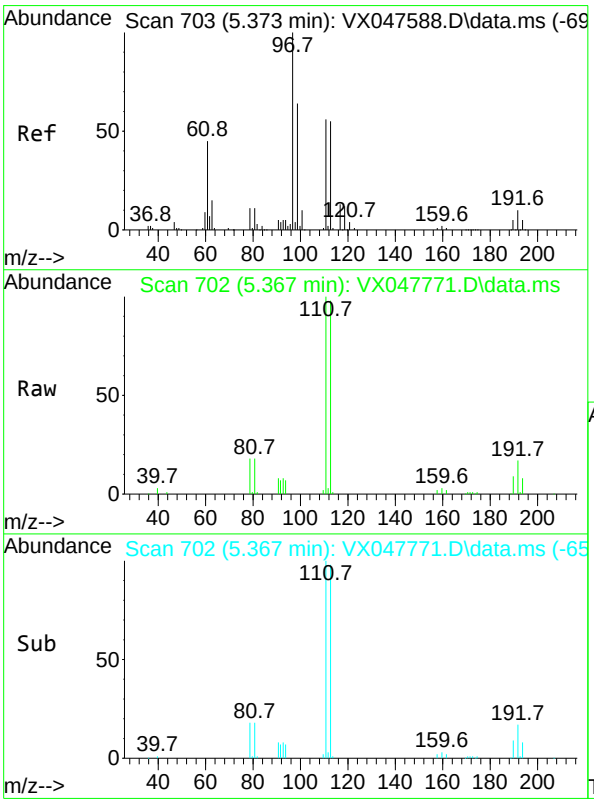
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047771.D
Acq: 24 Sep 2025 13:04

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBL01

Tgt Ion:114 Resp: 250677

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	44.0
88	16.4	0.0	34.2

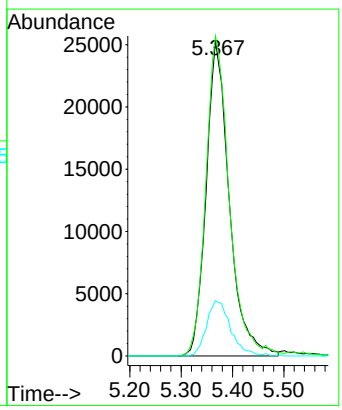


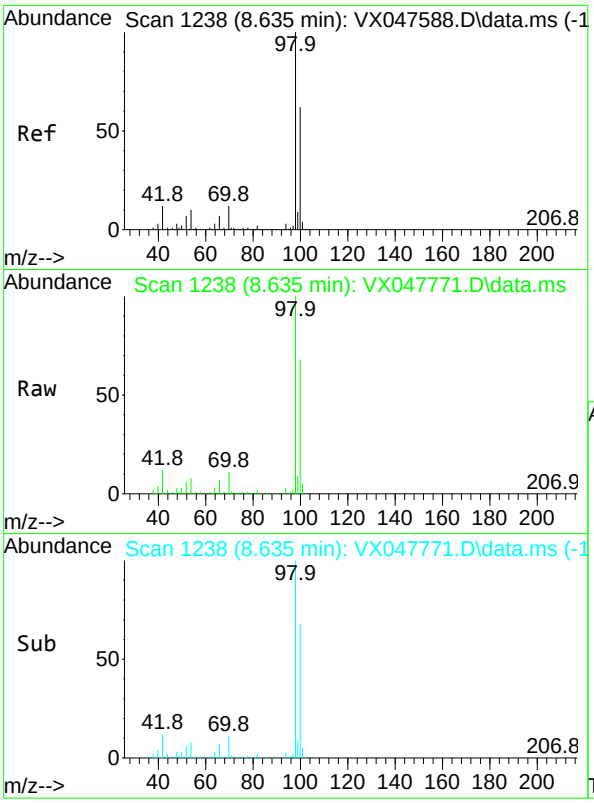


#35
Dibromofluoromethane
Concen: 47.028 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047771.D
Acq: 24 Sep 2025 13:04

Tgt Ion:113 Resp: 79063

Ion	Ratio	Lower	Upper
113	100		
111	103.3	80.9	121.3
192	18.3	14.2	21.4



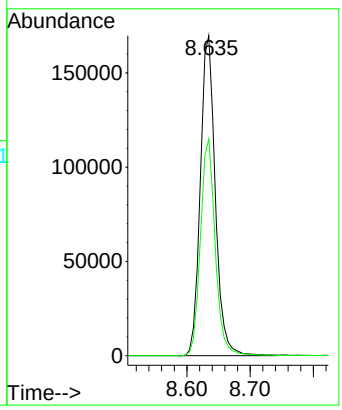


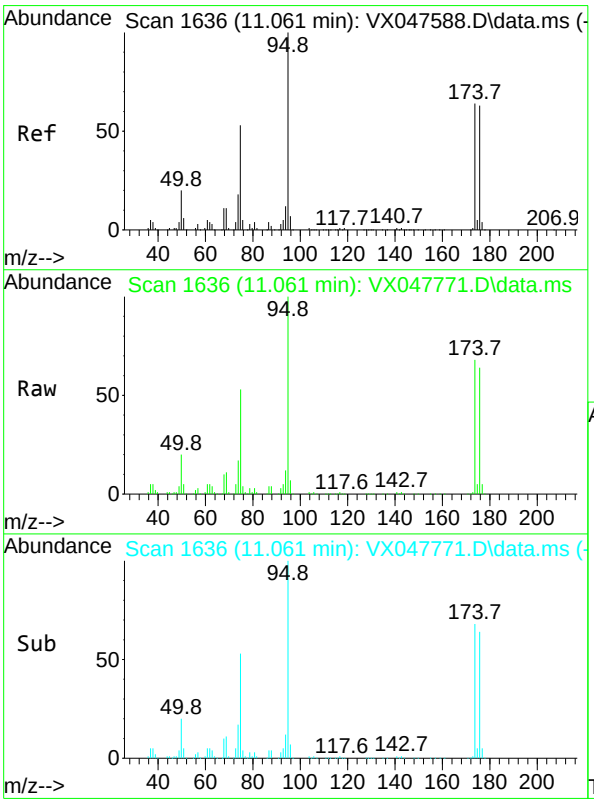
#50
Toluene-d8
Concen: 48.093 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047771.D
Acq: 24 Sep 2025 13:04

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBL01

Tgt Ion: 98 Resp: 279765

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4

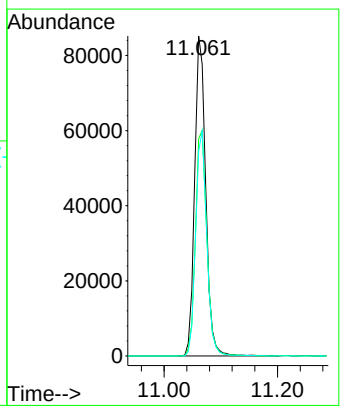


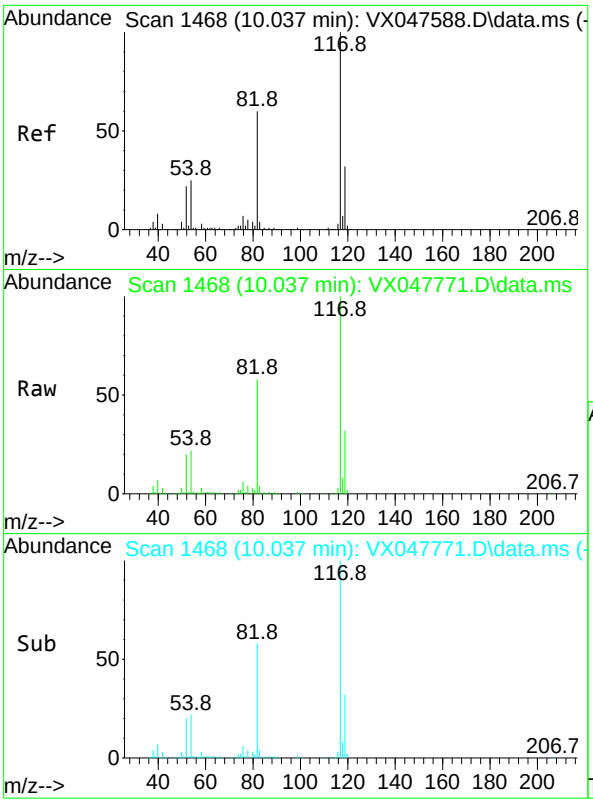


#62
4-Bromofluorobenzene
Concen: 52.278 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047771.D
Acq: 24 Sep 2025 13:04

Tgt Ion: 95 Resp: 115416

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	141.6
176	70.3	0.0	138.4



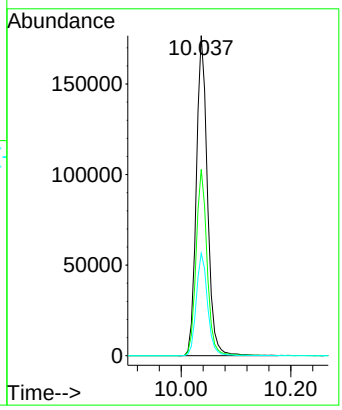


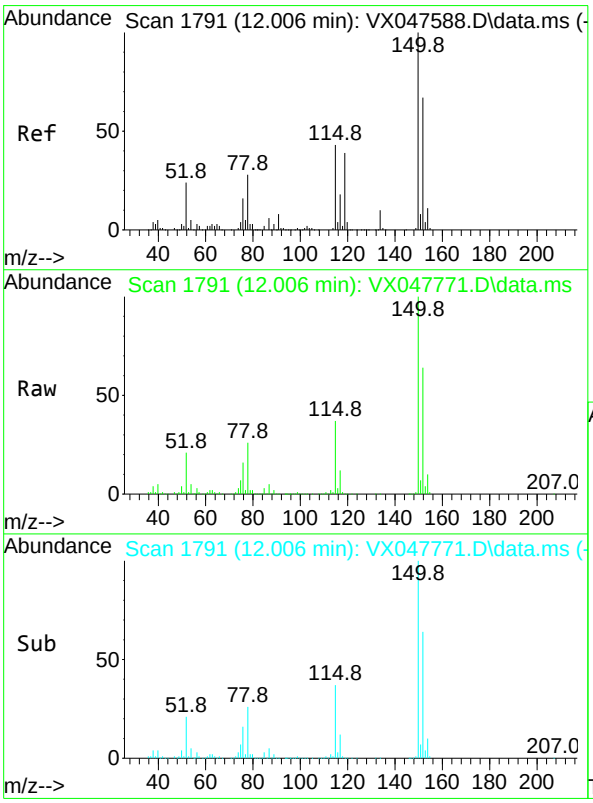
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047771.D
Acq: 24 Sep 2025 13:04

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBL01

Tgt Ion:117 Resp: 250409

Ion	Ratio	Lower	Upper
117	100		
82	58.2	47.8	71.6
119	32.0	25.2	37.8

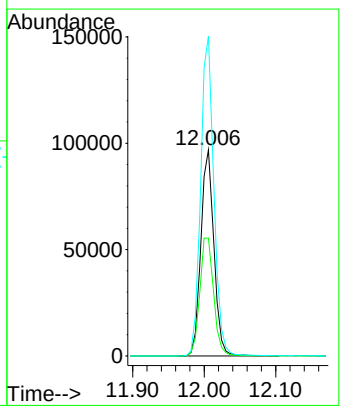




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047771.D
Acq: 24 Sep 2025 13:04

Tgt Ion:152 Resp: 123109

Ion	Ratio	Lower	Upper
152	100		
115	60.7	44.9	134.5
150	156.5	0.0	352.0



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0919WBS01	SDG No.:	Q3097
Lab Sample ID:	VX0919WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047663.D	1	09/19/25 10:38	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	24.4		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	21.9		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	21.8		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	23.0		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	20.5		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.6		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.6		0.23	0.75	1.00	ug/L
67-64-1	Acetone	87.3		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	21.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.6		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	19.4		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.5		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.8		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.0		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	20.4		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	98.8		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.0		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	20.9		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	20.0		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.9		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.5		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.1		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.3		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.0		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.7		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	20.3		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0919WBS01	SDG No.:	Q3097
Lab Sample ID:	VX0919WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047663.D	1	09/19/25 10:38	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.3		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	100		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	20.0		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.5		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.4		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.4		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	41.2		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.1		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.2		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	19.9		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.7		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.9		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.7		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.6		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.8		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.4		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		80 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	55.4		89 - 112		111%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.0		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	190000	5.532				
540-36-3	1,4-Difluorobenzene	337000	6.745				
3114-55-4	Chlorobenzene-d5	299000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	146000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0919WBS01	SDG No.:	Q3097
Lab Sample ID:	VX0919WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047663.D	1	09/19/25 10:38	VX091925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047663.D
Acq On : 19 Sep 2025 10:38
Operator : JC/MD
Sample : VX0919WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 20 00:27:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	190485	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	337411	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298577	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	146041	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	161347	53.214	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.420%			
35) Dibromofluoromethane	5.367	113	122748	54.245	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.480%			
50) Toluene-d8	8.635	98	434063	55.436	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 110.880%			
62) 4-Bromofluorobenzene	11.061	95	163439	55.000	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	48189	24.430	ug/l	96
3) Chloromethane	1.301	50	56662	21.857	ug/l	99
4) Vinyl Chloride	1.380	62	55247	21.771	ug/l	97
5) Bromomethane	1.618	94	36964	22.971	ug/l	93
6) Chloroethane	1.697	64	34850	20.547	ug/l	100
7) Trichlorofluoromethane	1.898	101	77725	20.628	ug/l	96
8) Diethyl Ether	2.136	74	30811	19.990	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	46477	21.095	ug/l	98
10) Methyl Iodide	2.453	142	63244	18.406	ug/l	99
11) Tert butyl alcohol	2.941	59	31950	94.614	ug/l	100
12) 1,1-Dichloroethene	2.325	96	46724	20.645	ug/l	98
13) Acrolein	2.233	56	36367	116.866	ug/l	98
14) Allyl chloride	2.666	41	90599	19.400	ug/l	98
15) Acrylonitrile	3.056	53	131021	104.748	ug/l	99
16) Acetone	2.374	43	115033	87.256	ug/l	98
17) Carbon Disulfide	2.514	76	133885	21.610	ug/l	99
18) Methyl Acetate	2.697	43	56823	19.367	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	161762	19.580	ug/l	98
20) Methylene Chloride	2.788	84	54454	19.514	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	50713	20.813	ug/l	91
22) Diisopropyl ether	3.751	45	178004	19.667	ug/l	94
23) Vinyl Acetate	3.709	43	729482	100.705	ug/l	98
24) 1,1-Dichloroethane	3.605	63	96151	19.987	ug/l	97
25) 2-Butanone	4.538	43	162542	98.842	ug/l	97
26) 2,2-Dichloropropane	4.459	77	75768	18.948	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	59674	19.998	ug/l	98
28) Bromochloromethane	4.879	49	43974	20.939	ug/l	99
29) Tetrahydrofuran	4.983	42	103814	104.940	ug/l	98
30) Chloroform	5.074	83	97368	20.030	ug/l	97
31) Cyclohexane	5.452	56	81875	20.435	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	81898	19.862	ug/l	99
36) 1,1-Dichloropropene	5.684	75	66091	19.988	ug/l	99
37) Ethyl Acetate	4.696	43	68156	19.251	ug/l	100
38) Carbon Tetrachloride	5.660	117	71209	19.821	ug/l	99
39) Methylcyclohexane	7.360	83	76946	20.500	ug/l	97
40) Benzene	6.025	78	201814	20.095	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047663.D
Acq On : 19 Sep 2025 10:38
Operator : JC/MD
Sample : VX0919WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 20 00:27:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	39044	21.362	ug/l		96
42) 1,2-Dichloroethane	6.068	62	73915	19.343	ug/l		99
43) Isopropyl Acetate	6.318	43	117690	20.269	ug/l		100
44) Trichloroethene	7.111	130	48532	19.988	ug/l		97
45) 1,2-Dichloropropane	7.409	63	51280	19.941	ug/l		99
46) Dibromomethane	7.568	93	37312	19.938	ug/l		98
47) Bromodichloromethane	7.806	83	75948	19.667	ug/l		96
48) Methyl methacrylate	7.677	41	57109	19.745	ug/l		99
49) 1,4-Dioxane	7.641	88	12922	442.088	ug/l		97
51) 4-Methyl-2-Pentanone	8.555	43	340376	105.728	ug/l		99
52) Toluene	8.702	92	125521	20.286	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	75998	19.294	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	82725	19.649	ug/l		100
55) 1,1,2-Trichloroethane	9.135	97	47766	20.021	ug/l		97
56) Ethyl methacrylate	9.098	69	74891	19.988	ug/l		99
57) 1,3-Dichloropropane	9.293	76	83720	20.427	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	143078	87.280	ug/l		100
59) 2-Hexanone	9.415	43	236656	102.353	ug/l		99
60) Dibromochloromethane	9.506	129	55109	20.047	ug/l		99
61) 1,2-Dibromoethane	9.592	107	49855	20.516	ug/l		100
64) Tetrachloroethene	9.256	164	39697	20.395	ug/l		96
65) Chlorobenzene	10.061	112	134843	19.879	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.147	131	46247	19.758	ug/l		100
67) Ethyl Benzene	10.177	91	238457	20.374	ug/l		100
68) m/p-Xylenes	10.287	106	179504	41.206	ug/l		98
69) o-Xylene	10.622	106	84887	20.146	ug/l		100
70) Styrene	10.640	104	148789	20.153	ug/l		99
71) Bromoform	10.781	173	34739	19.876	ug/l	#	99
73) Isopropylbenzene	10.945	105	218637	19.692	ug/l		99
74) N-amyl acetate	10.823	43	99633	19.678	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	66686	19.852	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	61556m	20.818	ug/l		
77) Bromobenzene	11.183	156	53519	19.571	ug/l		99
78) n-propylbenzene	11.287	91	260496	19.847	ug/l		99
79) 2-Chlorotoluene	11.348	91	156568	19.476	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	181815	19.931	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	21163	18.252	ug/l		97
82) 4-Chlorotoluene	11.439	91	189446	19.954	ug/l		100
83) tert-Butylbenzene	11.695	119	180209	19.298	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	184775	19.979	ug/l		99
85) sec-Butylbenzene	11.872	105	221990	20.014	ug/l		99
86) p-Isopropyltoluene	11.994	119	185890	19.796	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	99921	19.672	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	101411	19.453	ug/l		98
89) n-Butylbenzene	12.311	91	174651	20.101	ug/l		98
90) Hexachloroethane	12.518	117	31341	19.010	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	94793	19.589	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	13079	19.231	ug/l		98
93) 1,2,4-Trichlorobenzene	13.567	180	59106	18.794	ug/l		100
94) Hexachlorobutadiene	13.707	225	20772	19.445	ug/l		99
95) Naphthalene	13.756	128	181956	19.000	ug/l		100
96) 1,2,3-Trichlorobenzene	13.945	180	56854	19.434	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047663.D
Acq On : 19 Sep 2025 10:38
Operator : JC/MD
Sample : VX0919WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 20 00:27:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

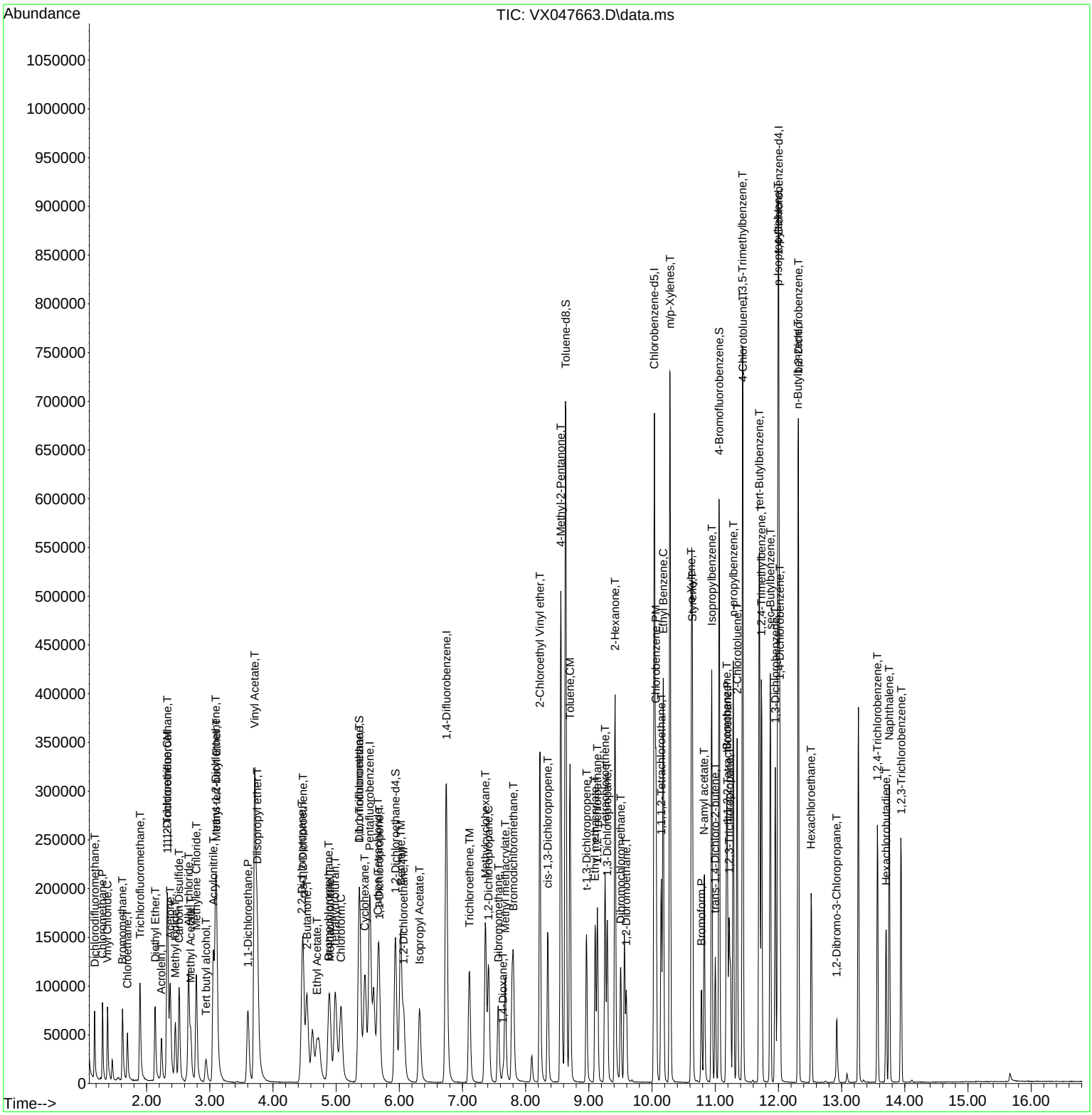
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047663.D
Acq On : 19 Sep 2025 10:38
Operator : JC/MD
Sample : VX0919WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

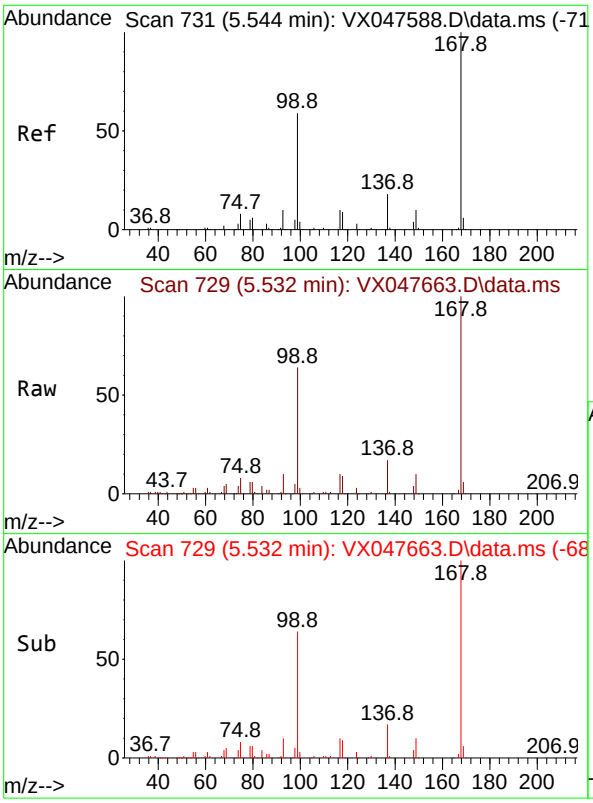
Quant Time: Sep 20 00:27:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

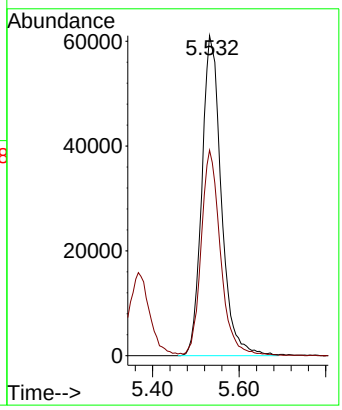




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:168 Resp: 19048

Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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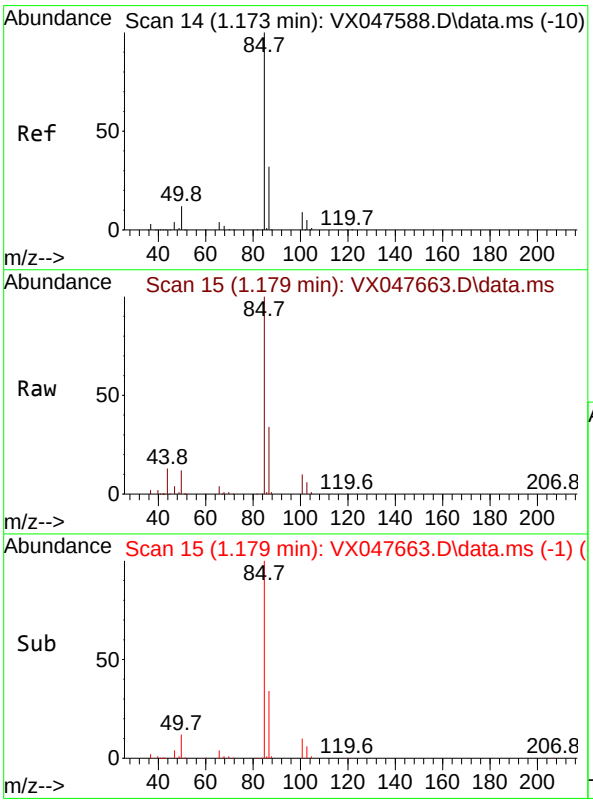
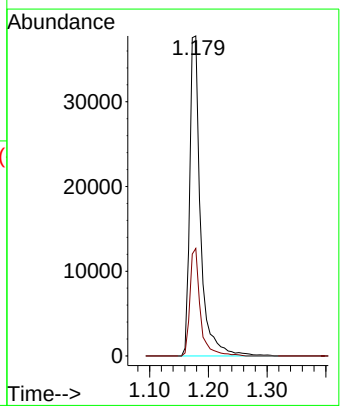
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

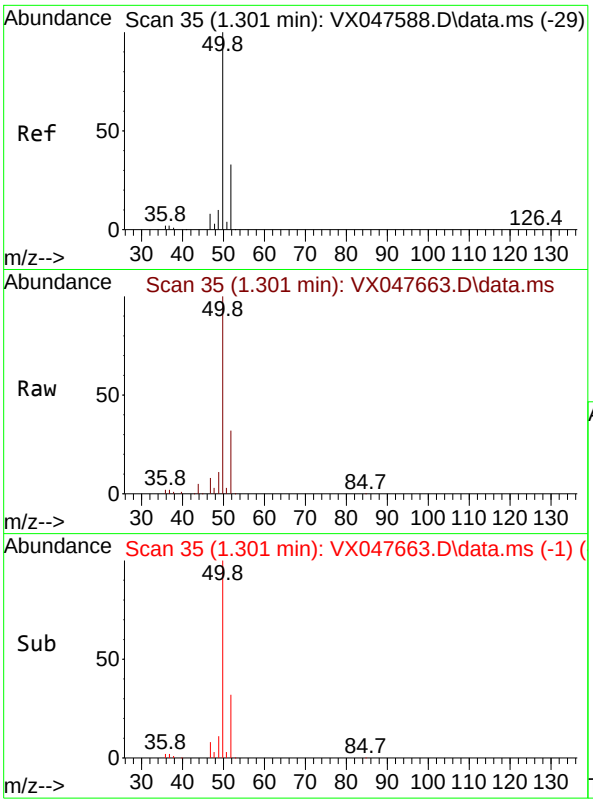


#2
Dichlorodifluoromethane
Concen: 24.430 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 85 Resp: 48189

Ion	Ratio	Lower	Upper
85	100		
87	33.6	15.8	47.3

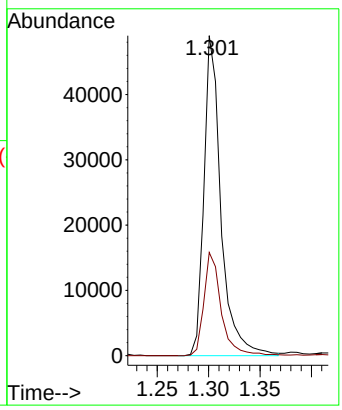




#3
Chloromethane
Concen: 21.857 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 50 Resp: 5666

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1



Instrument :
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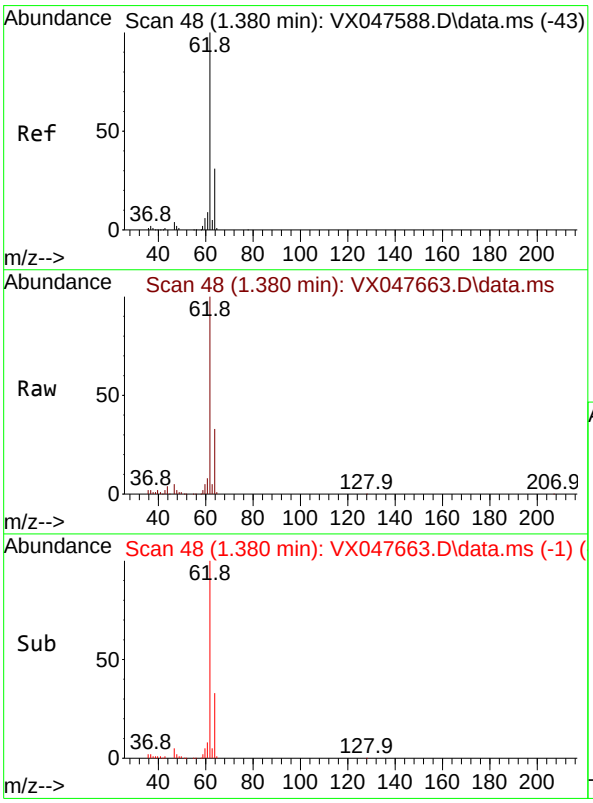
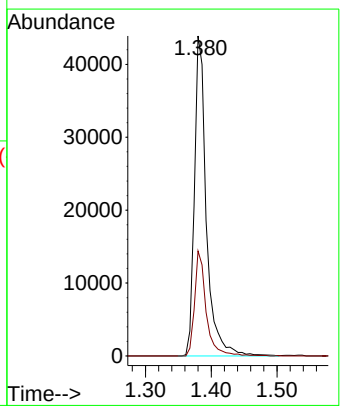
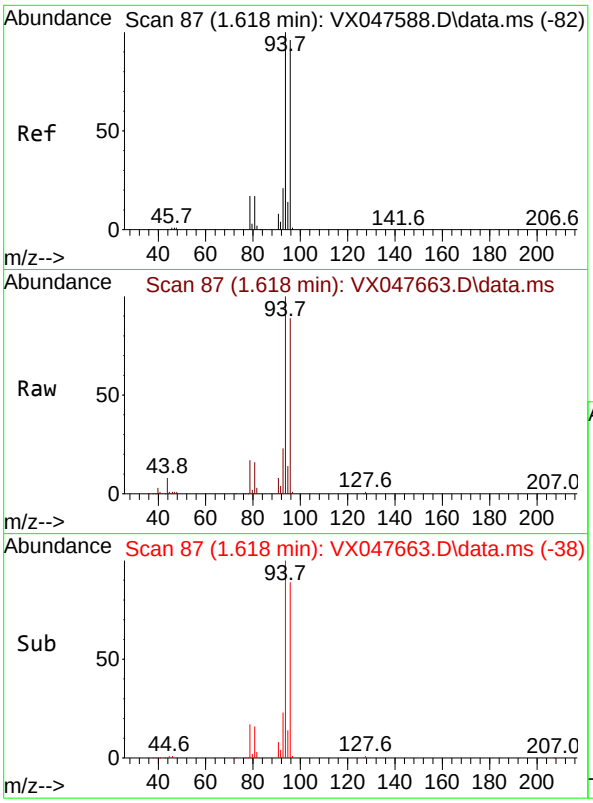


#4
Vinyl Chloride
Concen: 21.771 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 62 Resp: 55247

Ion	Ratio	Lower	Upper
62	100		
64	32.8	24.9	37.3

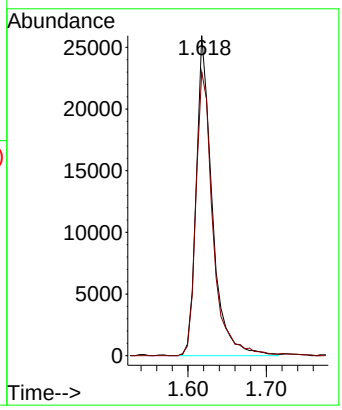




#5
Bromomethane
Concen: 22.971 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 94 Resp: 3696

Ion	Ratio	Lower	Upper
94	100		
96	88.7	76.6	115.0



Instrument :
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ClientSampleId :
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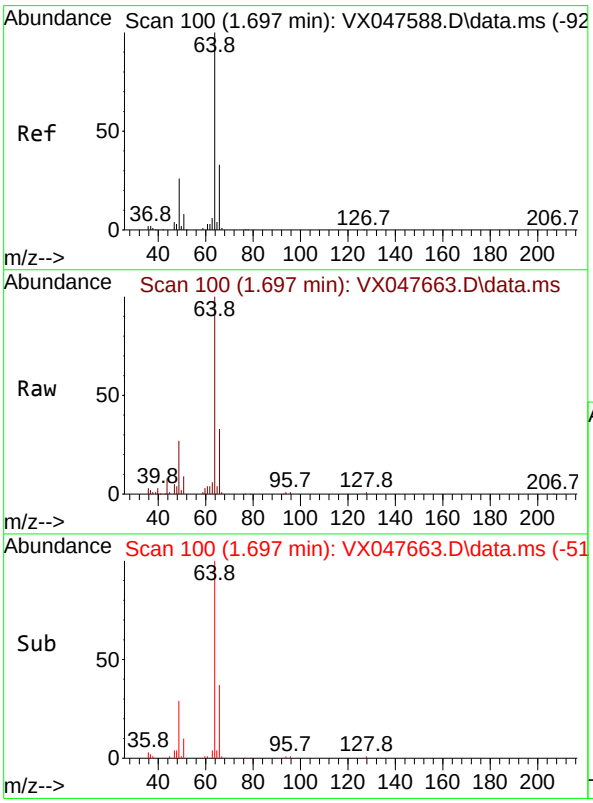
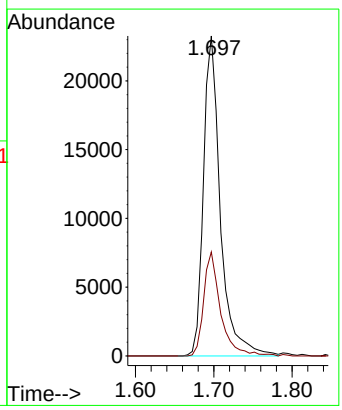
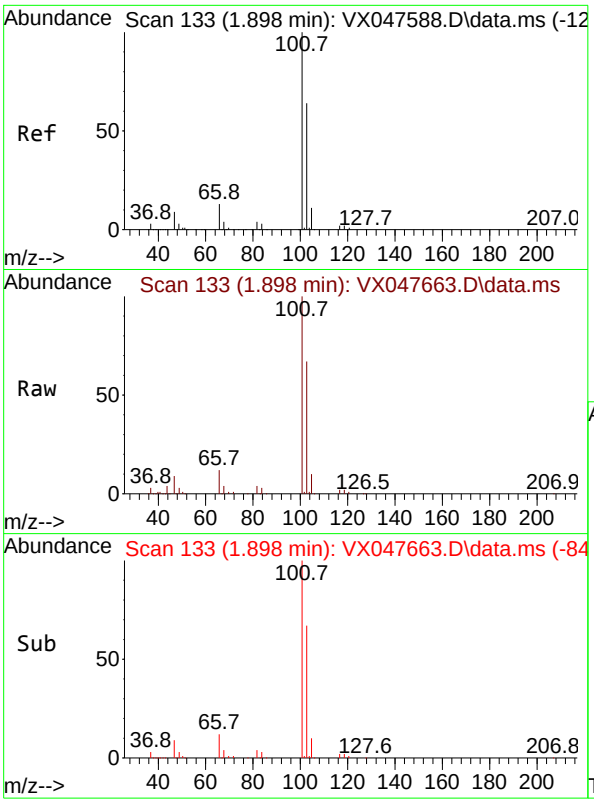


#6
Chloroethane
Concen: 20.547 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 64 Resp: 34850

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.1	39.1

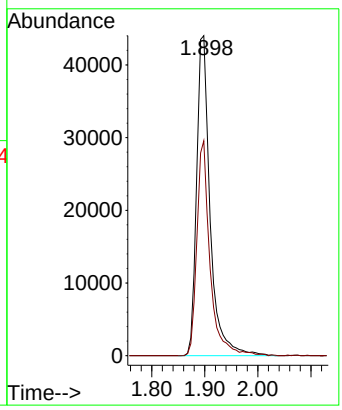




#7
Trichlorofluoromethane
Concen: 20.628 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:101 Resp: 7772

Ion	Ratio	Lower	Upper
101	100		
103	67.2	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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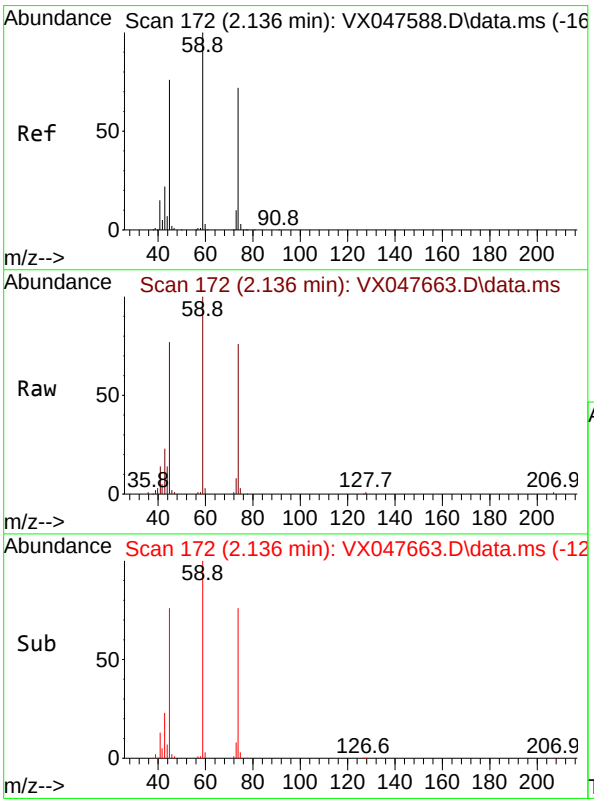
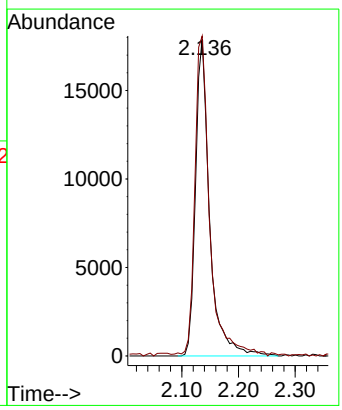
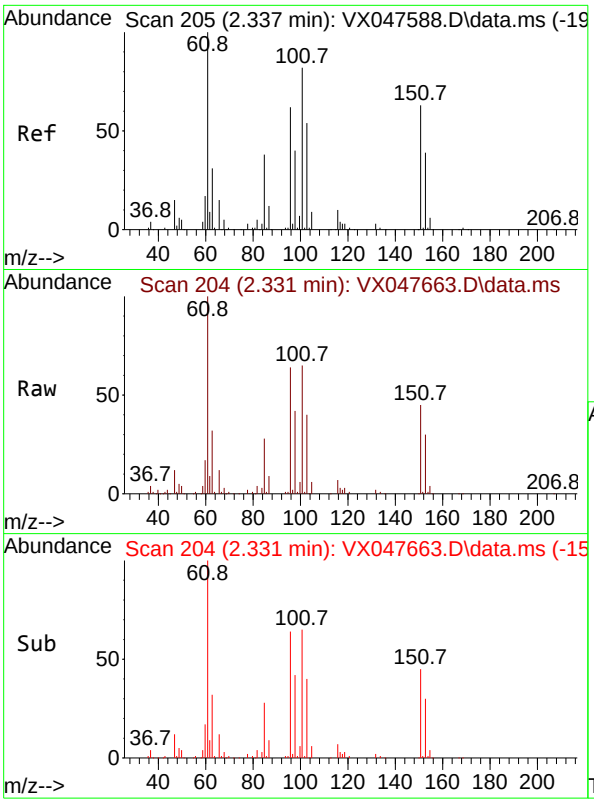


#8
Diethyl Ether
Concen: 19.990 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 74 Resp: 30811

Ion	Ratio	Lower	Upper
74	100		
45	106.7	52.3	156.8

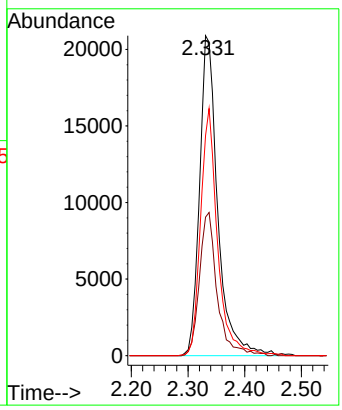




#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.095 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:101 Resp: 4647

Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.5	53.3
151	72.6	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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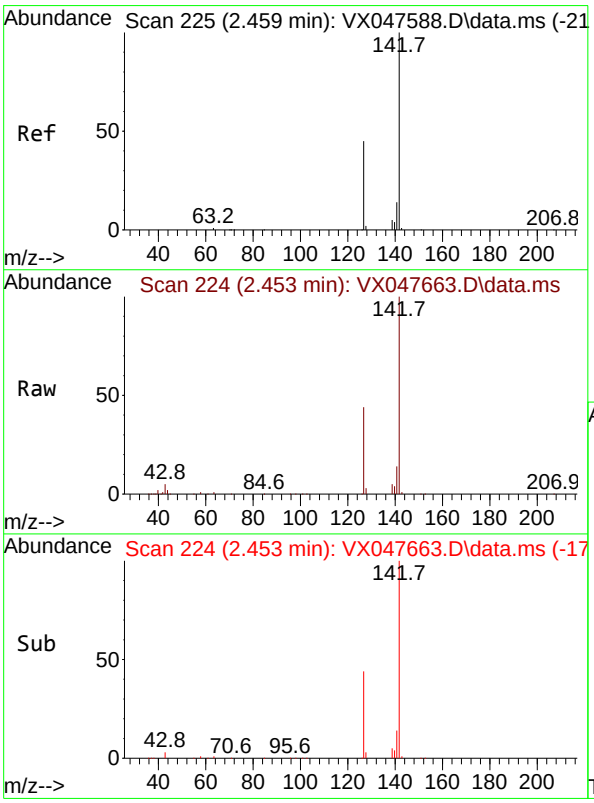
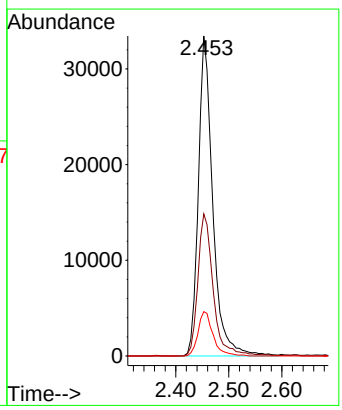
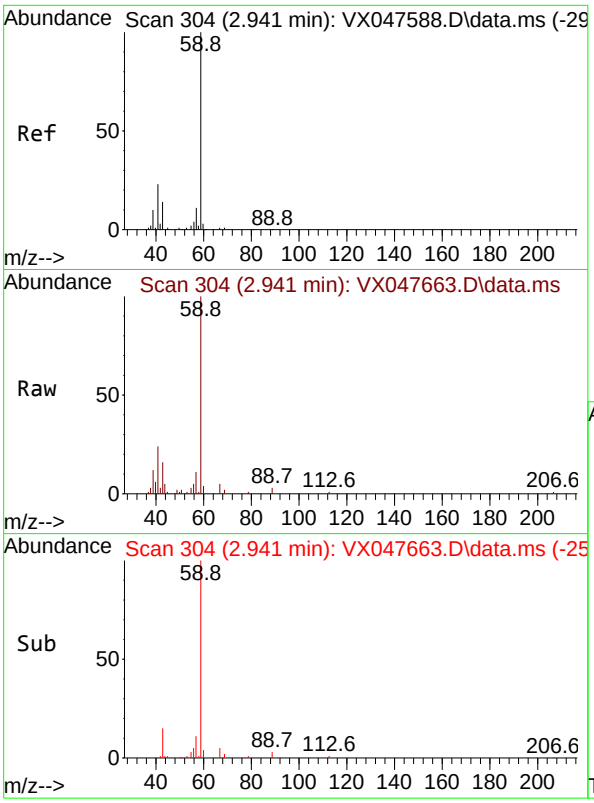


#10
Methyl Iodide
Concen: 18.406 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:142 Resp: 63244

Ion	Ratio	Lower	Upper
142	100		
127	47.2	37.2	55.8
141	14.4	11.4	17.0

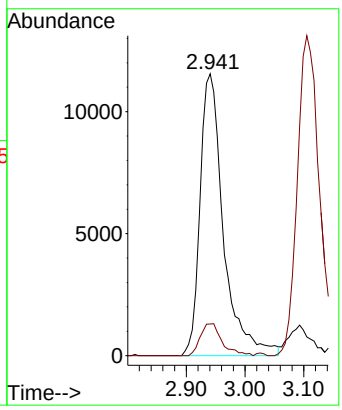




#11
Tert butyl alcohol
Concen: 94.614 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 59 Resp: 3195

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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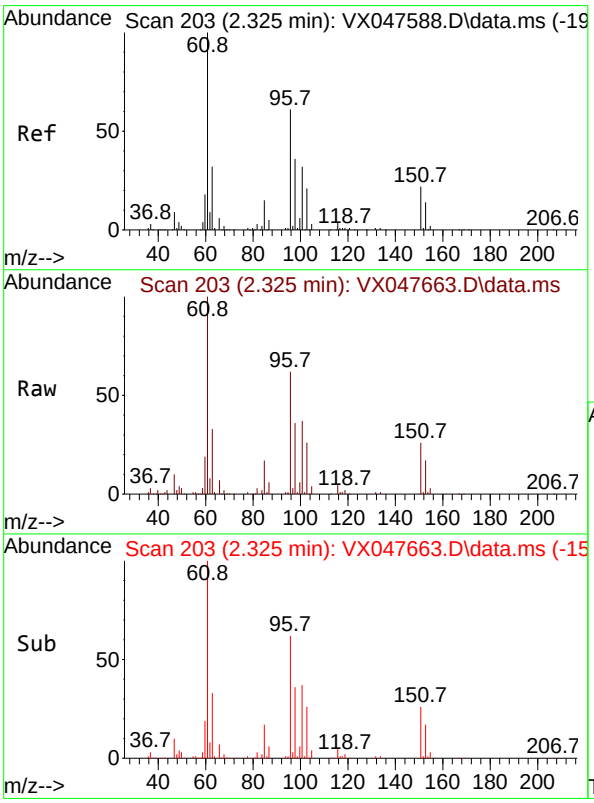
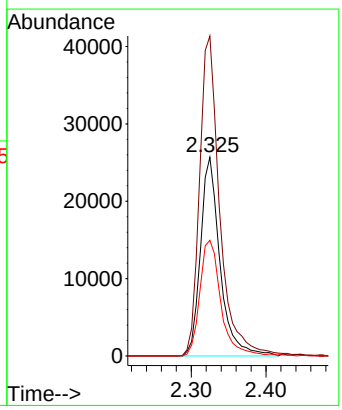
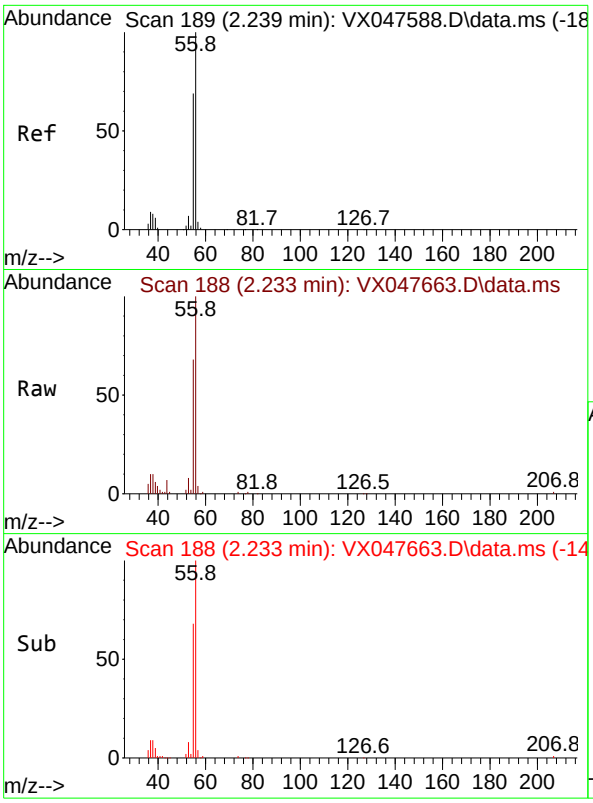


#12
1,1-Dichloroethene
Concen: 20.645 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 96 Resp: 46724

Ion	Ratio	Lower	Upper
96	100		
61	161.0	131.0	196.6
98	60.2	47.7	71.5

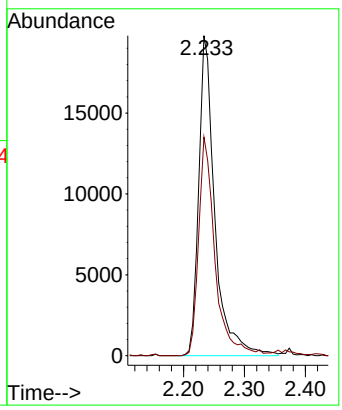




#13
Acrolein
Concen: 116.866 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 56 Resp: 3636

Ion	Ratio	Lower	Upper
56	100		
55	69.8	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
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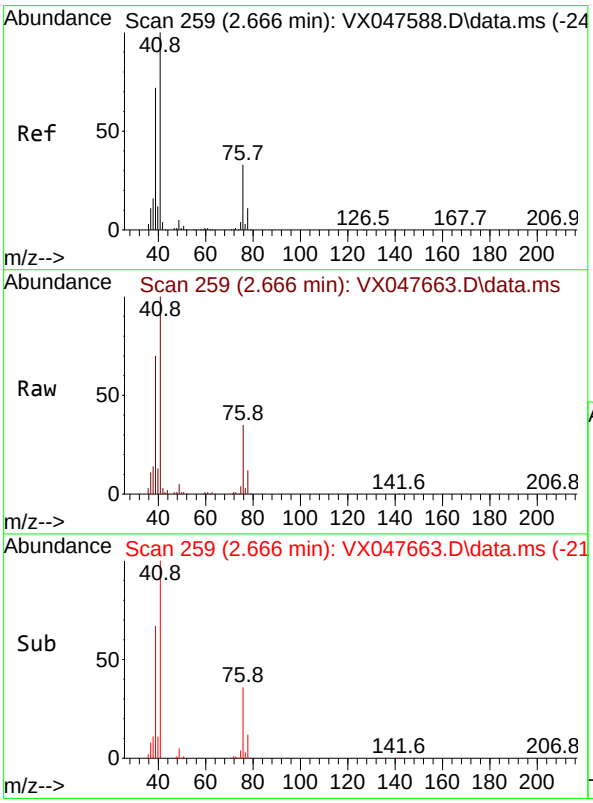
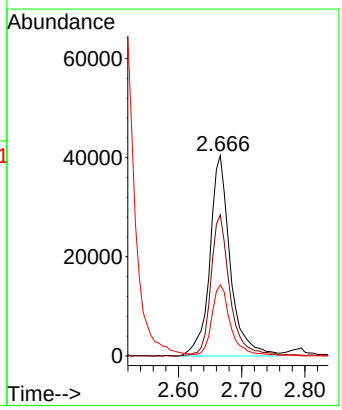
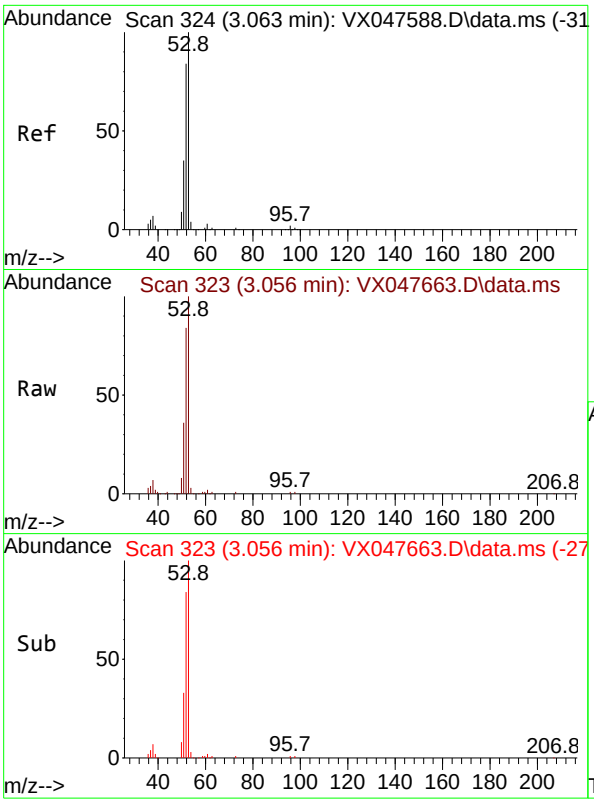


#14
Allyl chloride
Concen: 19.400 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 41 Resp: 90599

Ion	Ratio	Lower	Upper
41	100		
39	66.3	54.7	82.1
76	33.0	25.7	38.5

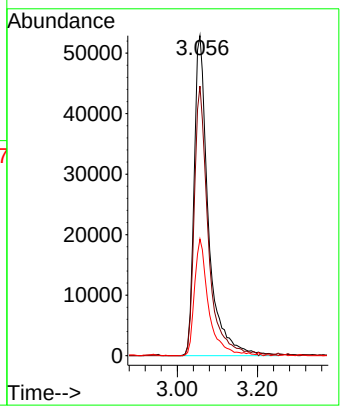




#15
Acrylonitrile
Concen: 104.748 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 53 Resp: 13102

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.3	29.5	44.3



Instrument :
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ClientSampleId :
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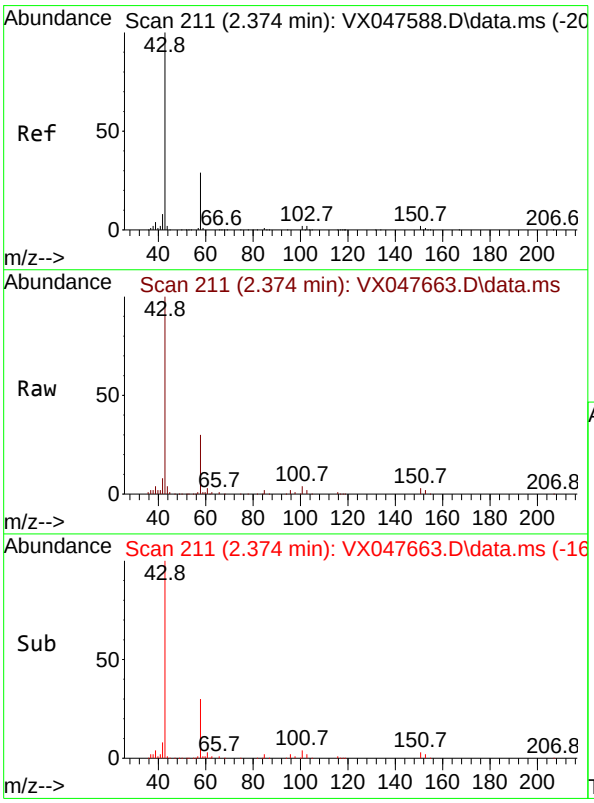
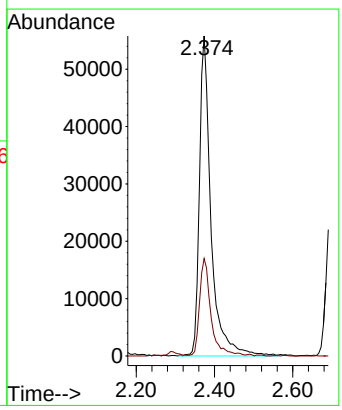
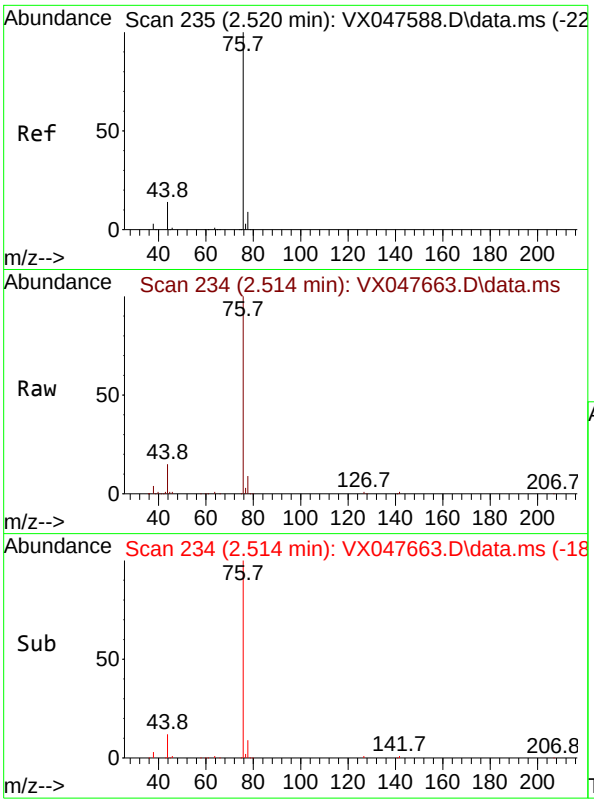


#16
Acetone
Concen: 87.256 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 115033

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.4	35.0

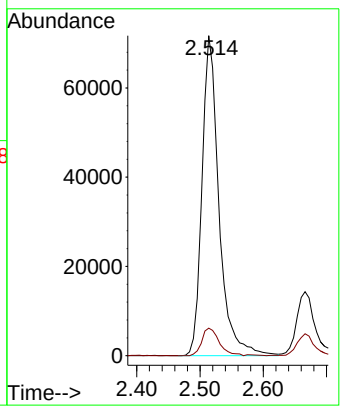




#17
Carbon Disulfide
Concen: 21.610 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 76 Resp: 13388

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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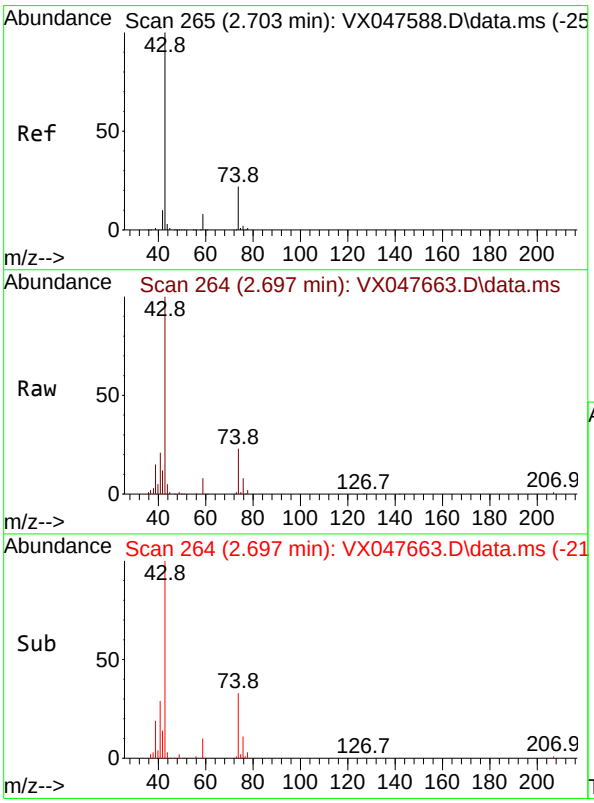
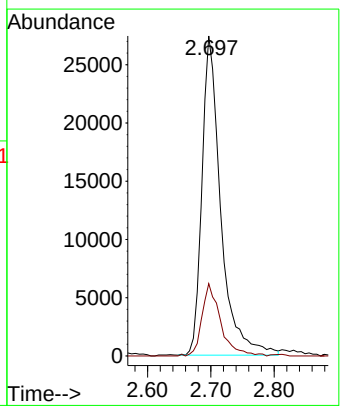
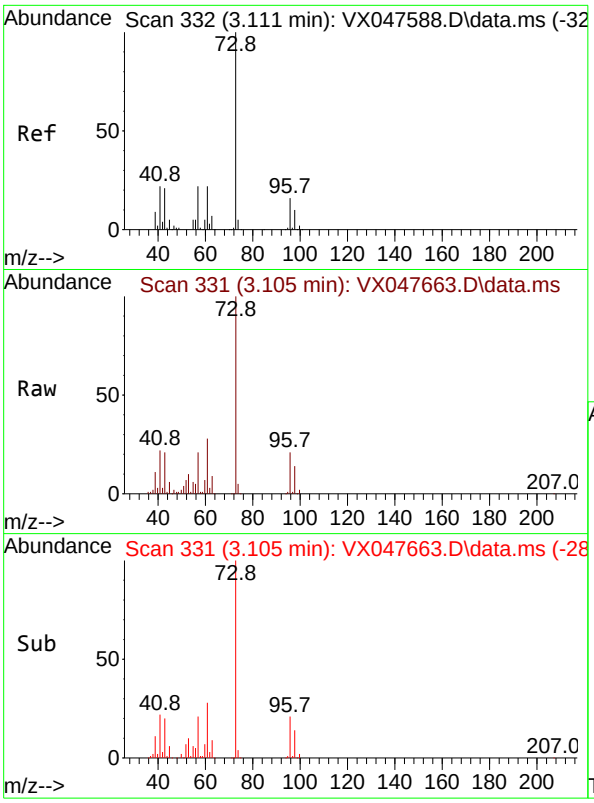


#18
Methyl Acetate
Concen: 19.367 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 56823

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.4	26.2

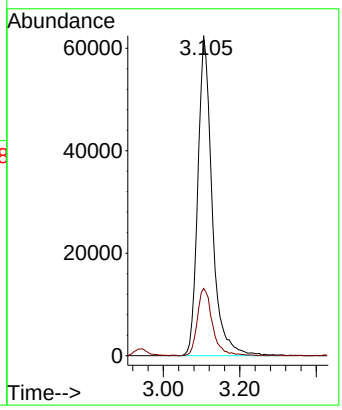




#19
Methyl tert-butyl Ether
Concen: 19.580 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 73 Resp: 16176

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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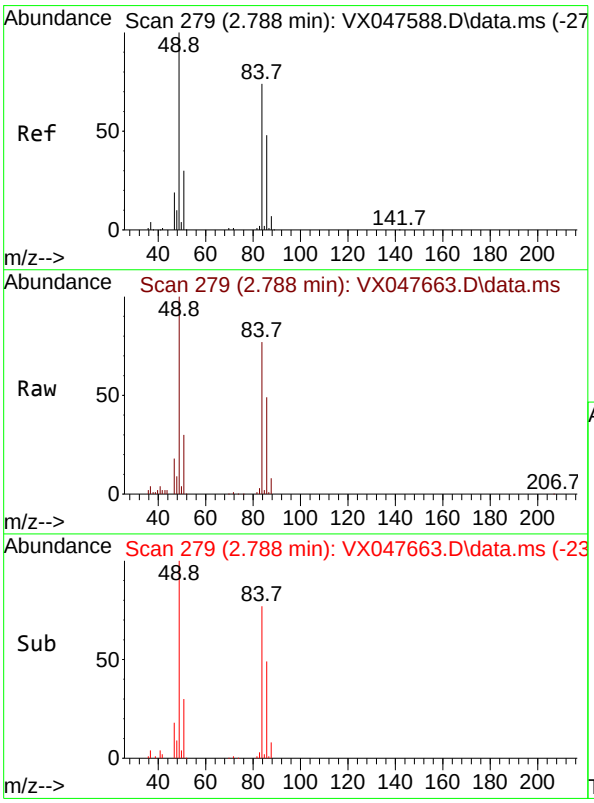
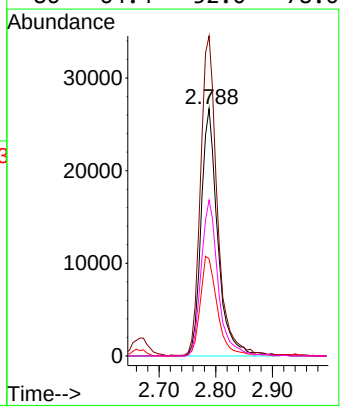
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

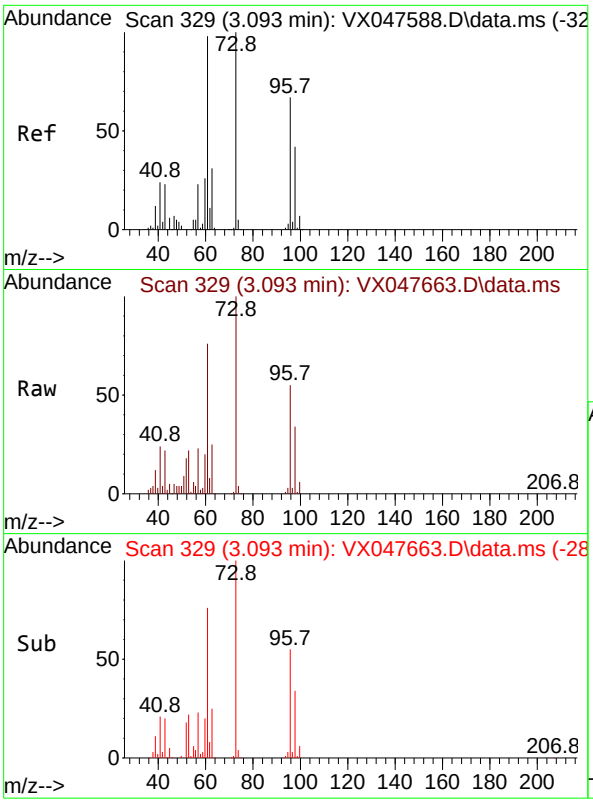


#20
Methylene Chloride
Concen: 19.514 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 84 Resp: 54454

Ion	Ratio	Lower	Upper
84	100		
49	129.1	108.6	162.8
51	39.3	32.6	48.8
86	64.4	52.0	78.0

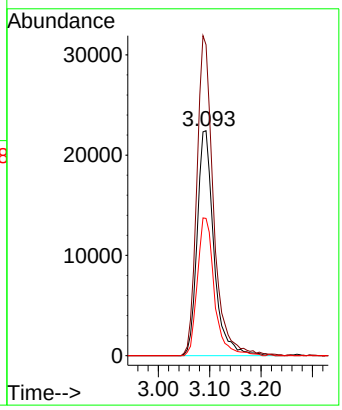




#21
trans-1,2-Dichloroethene
Concen: 20.813 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 96 Resp: 5071

Ion	Ratio	Lower	Upper
96	100		
61	131.1	116.2	174.2
98	57.9	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
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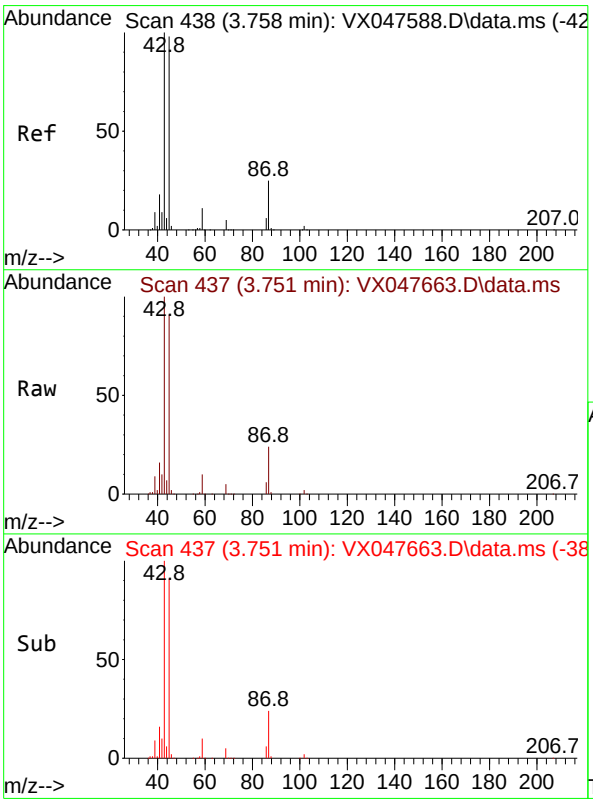
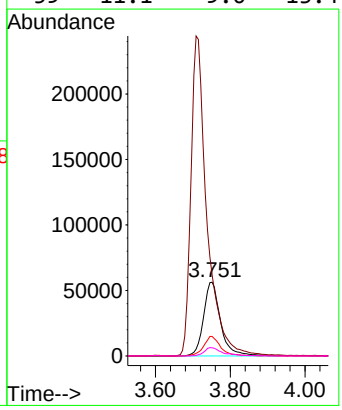
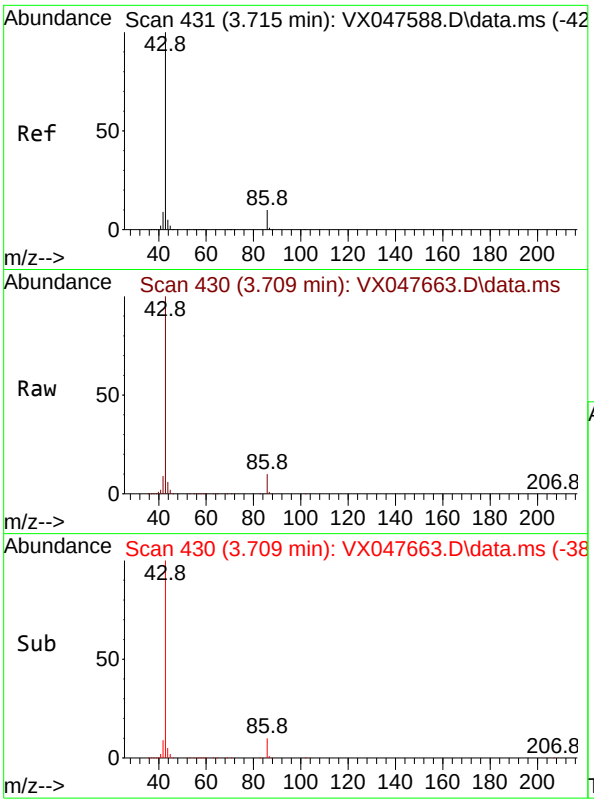


#22
Diisopropyl ether
Concen: 19.667 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 45 Resp: 178004

Ion	Ratio	Lower	Upper
45	100		
43	108.9	81.0	121.4
87	26.5	20.3	30.5
59	11.1	9.0	13.4

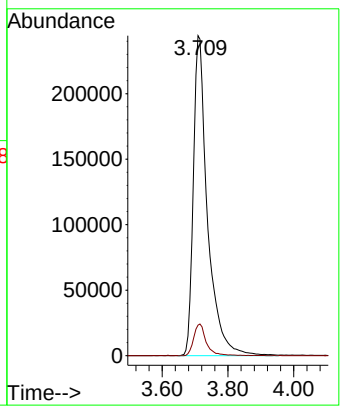




#23
Vinyl Acetate
Concen: 100.705 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 72948

Ion	Ratio	Lower	Upper
43	100		
86	10.4	7.8	11.8



Instrument :
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ClientSampleId :
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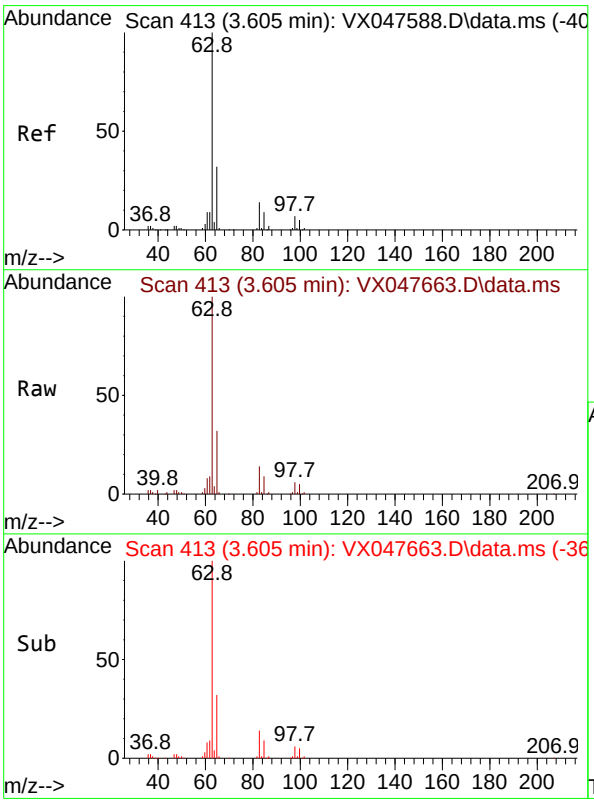
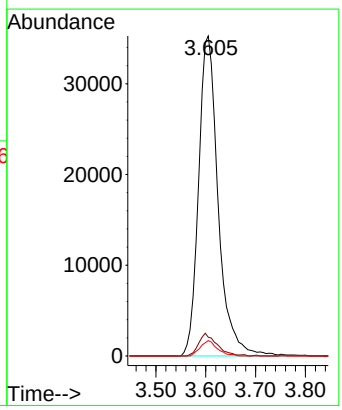
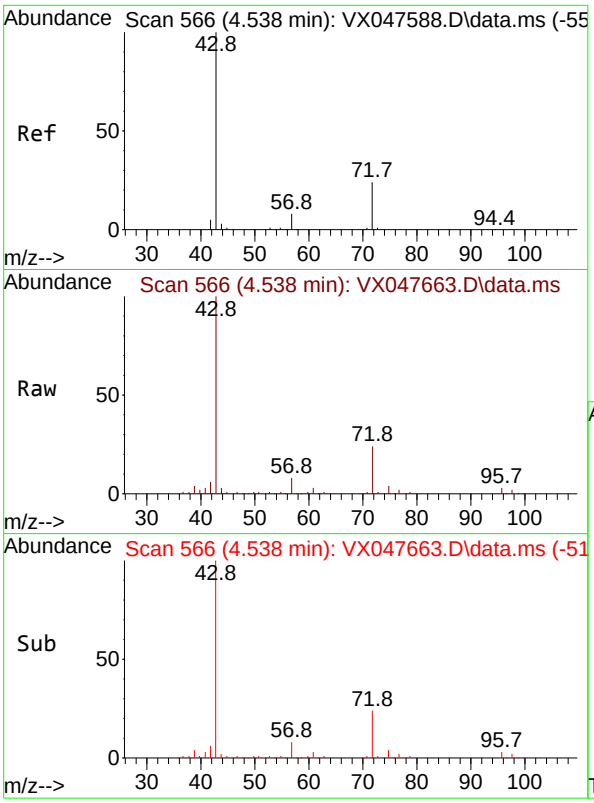


#24
1,1-Dichloroethane
Concen: 19.987 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 63 Resp: 96151

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.8	11.2
100	4.8	2.3	6.9

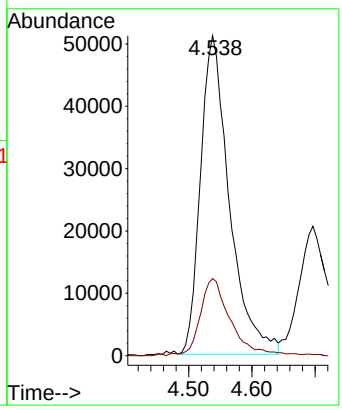




#25
2-Butanone
Concen: 98.842 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 16254

Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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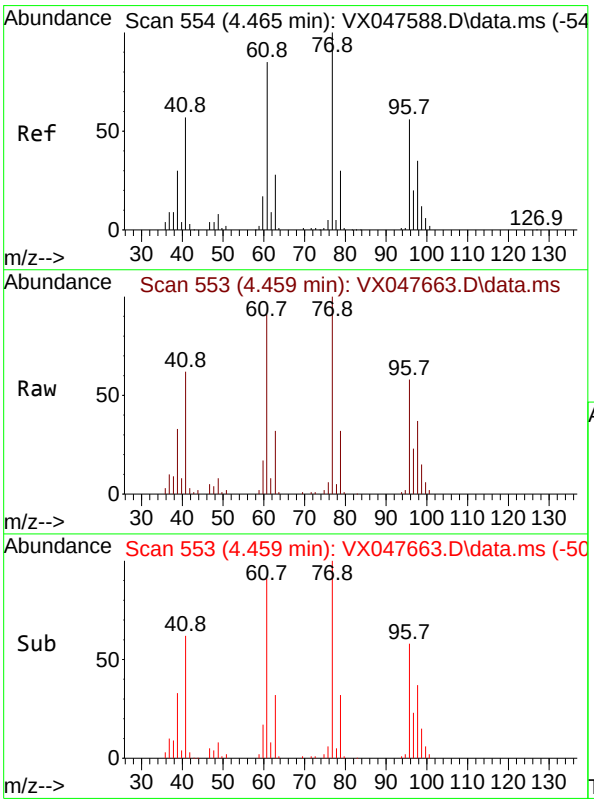
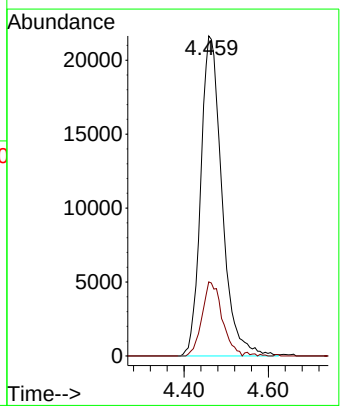
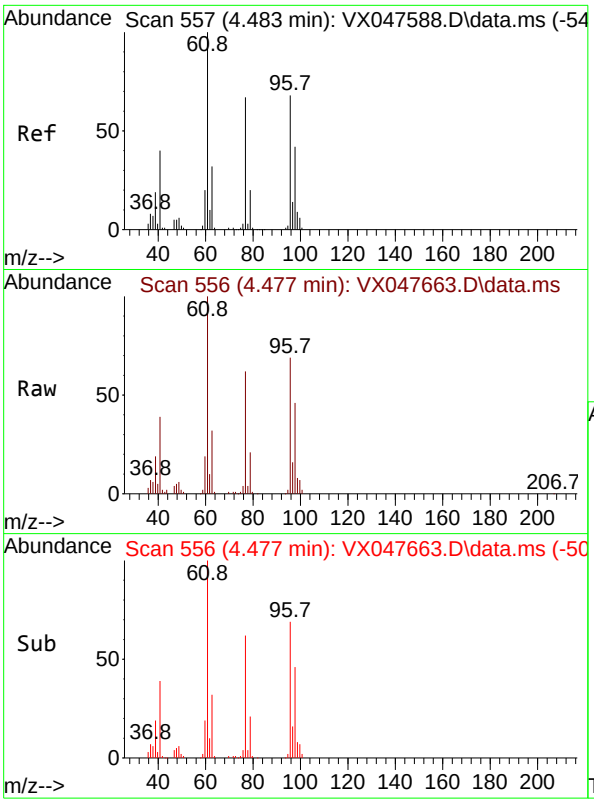


#26
2,2-Dichloropropane
Concen: 18.948 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 77 Resp: 75768

Ion	Ratio	Lower	Upper
77	100		
97	21.9	10.9	32.7

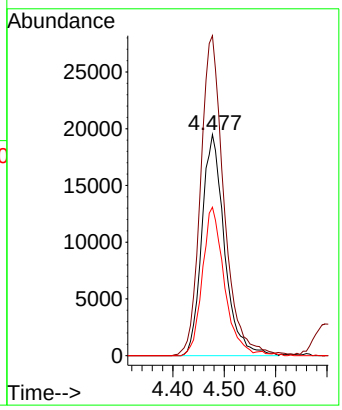




#27
cis-1,2-Dichloroethene
Concen: 19.998 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 96 Resp: 5967

Ion	Ratio	Lower	Upper
96	100		
61	149.4	0.0	303.2
98	64.8	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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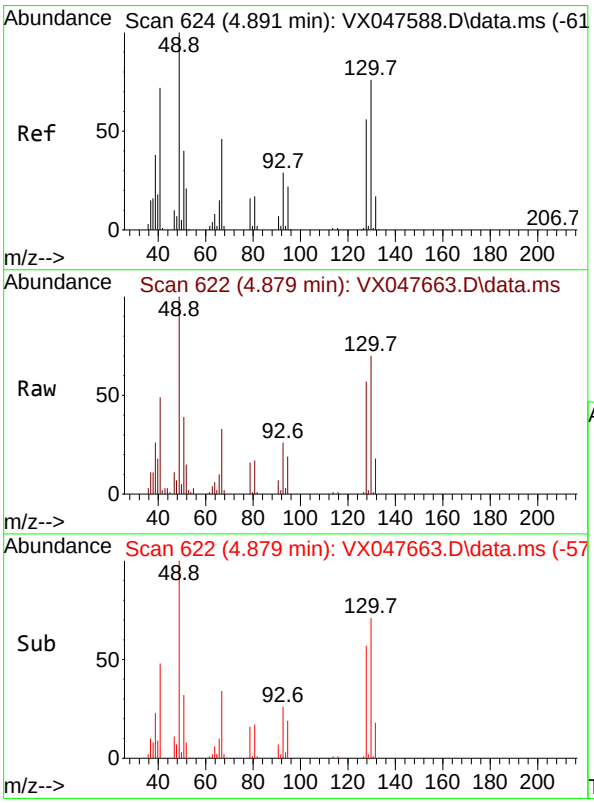
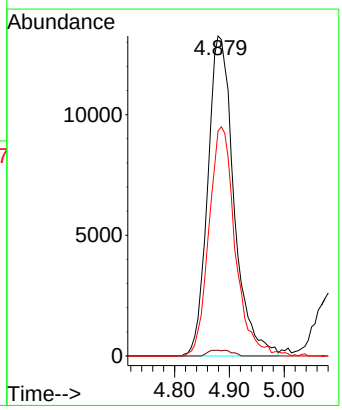
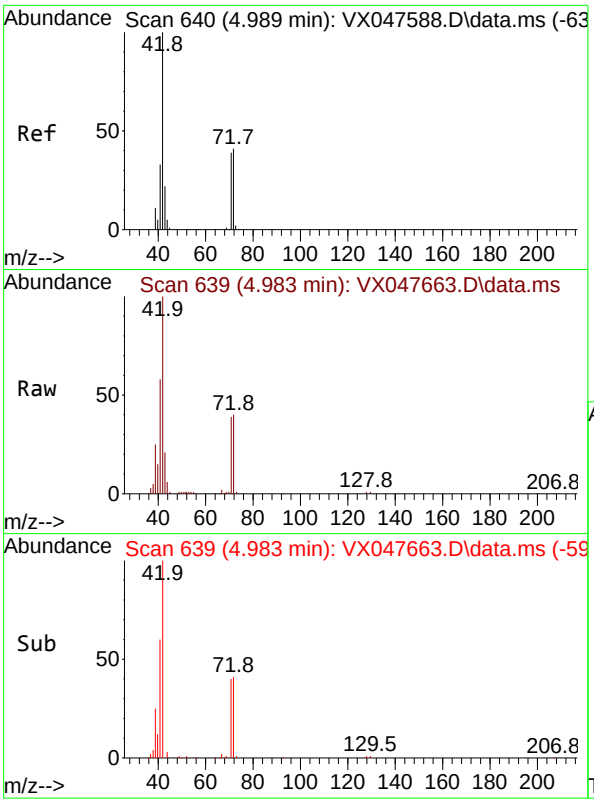


#28
Bromochloromethane
Concen: 20.939 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 49 Resp: 43974

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	71.7	57.8	86.8

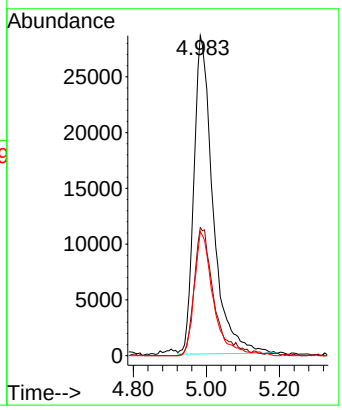




#29
Tetrahydrofuran
Concen: 104.940 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 42 Resp: 10381

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	38.4	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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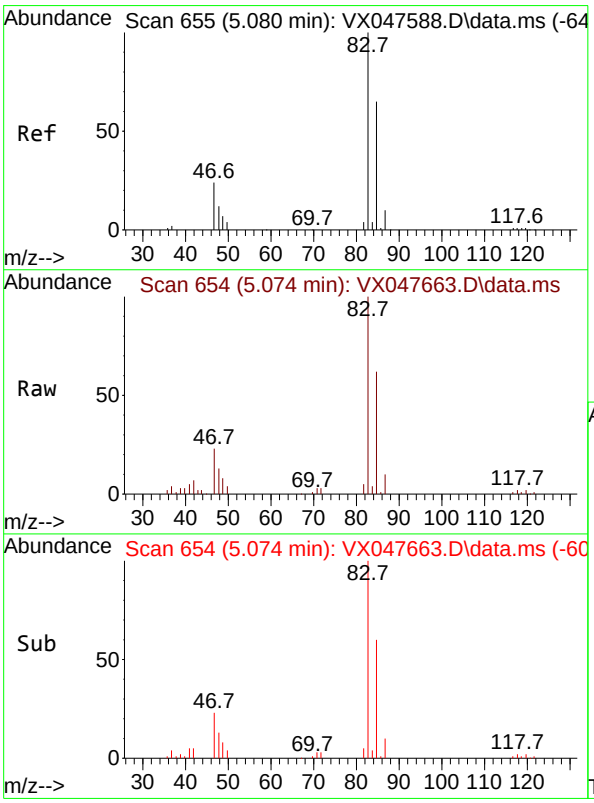
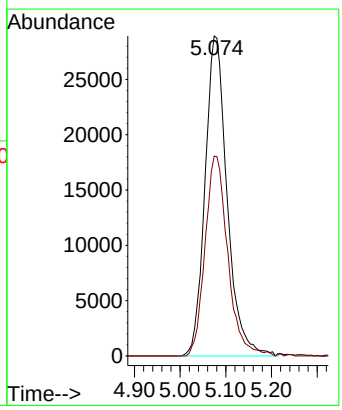
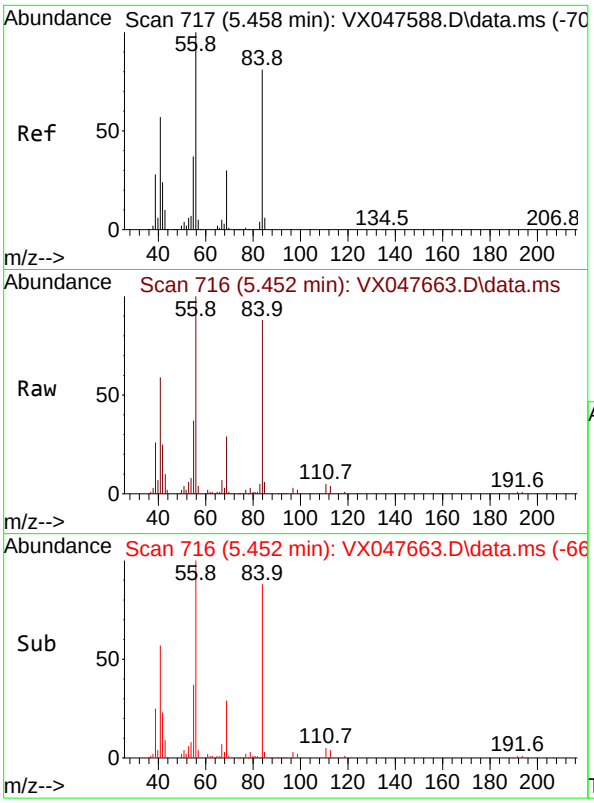


#30
Chloroform
Concen: 20.030 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 83 Resp: 97368

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.8	77.6





#31
Cyclohexane
Concen: 20.435 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 56 Resp: 8187

Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.8	35.8
84	85.6	64.6	97.0

Instrument :
MSVOA_X
ClientSampleId :
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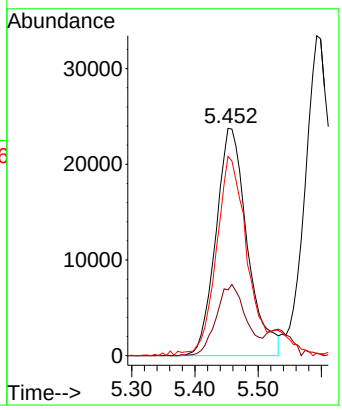
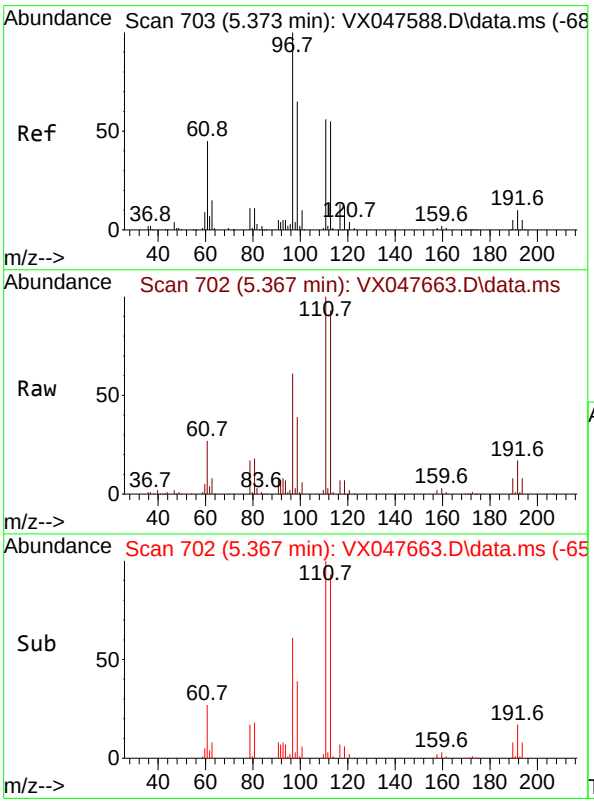
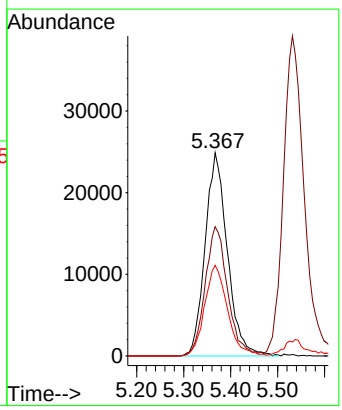


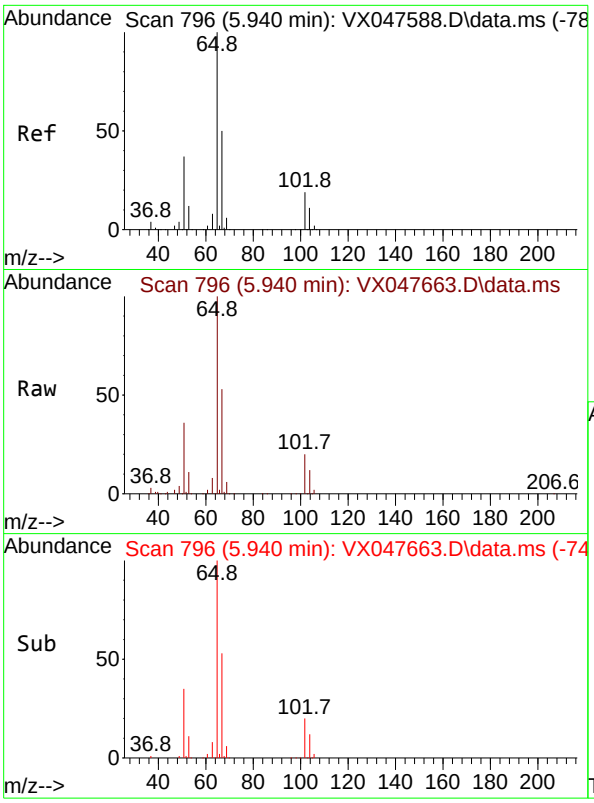


#32
1,1,1-Trichloroethane
Concen: 19.862 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 97 Resp: 81898

Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.6	76.0
61	45.7	35.8	53.8

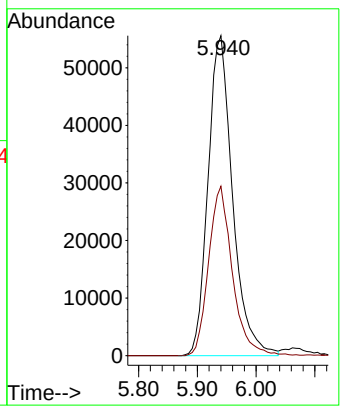




#33
1,2-Dichloroethane-d4
Concen: 53.214 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 65 Resp: 16134

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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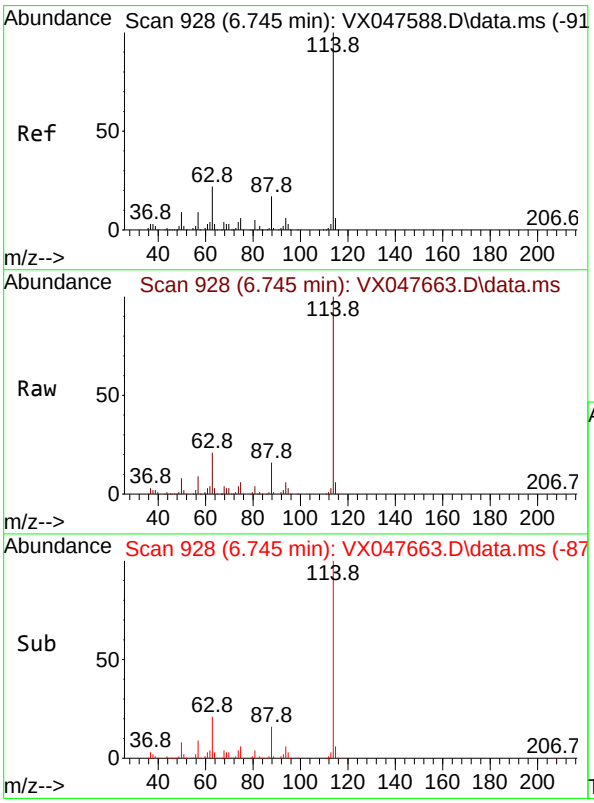
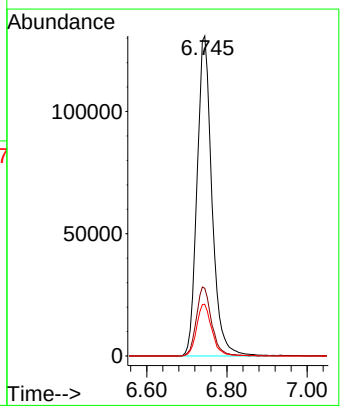
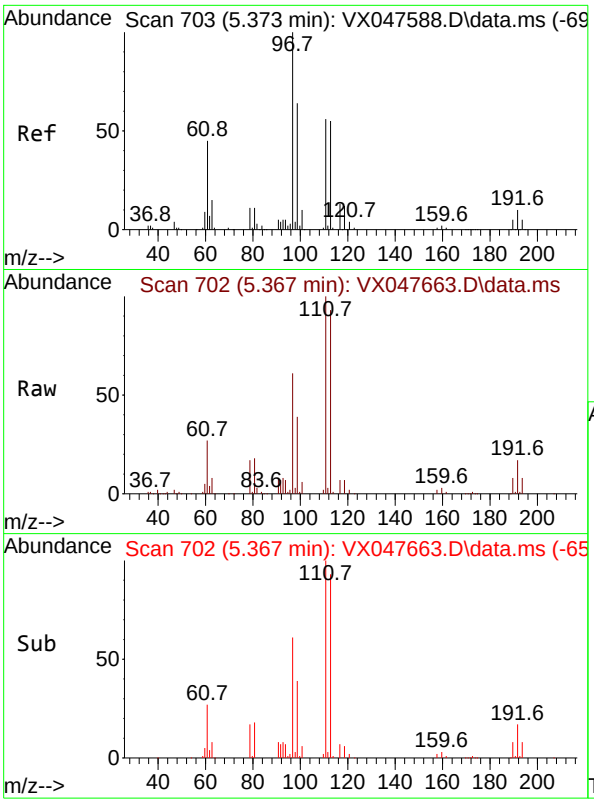


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:114 Resp: 337411

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.1	0.0	34.2

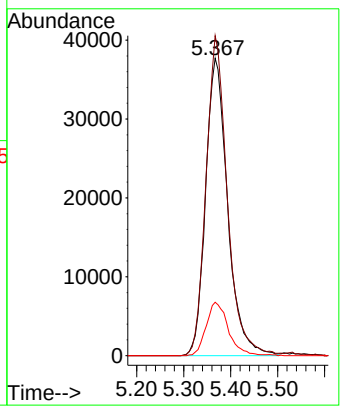




#35
Dibromofluoromethane
Concen: 54.245 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:113 Resp: 12274

Ion	Ratio	Lower	Upper
113	100		
111	104.1	80.9	121.3
192	18.1	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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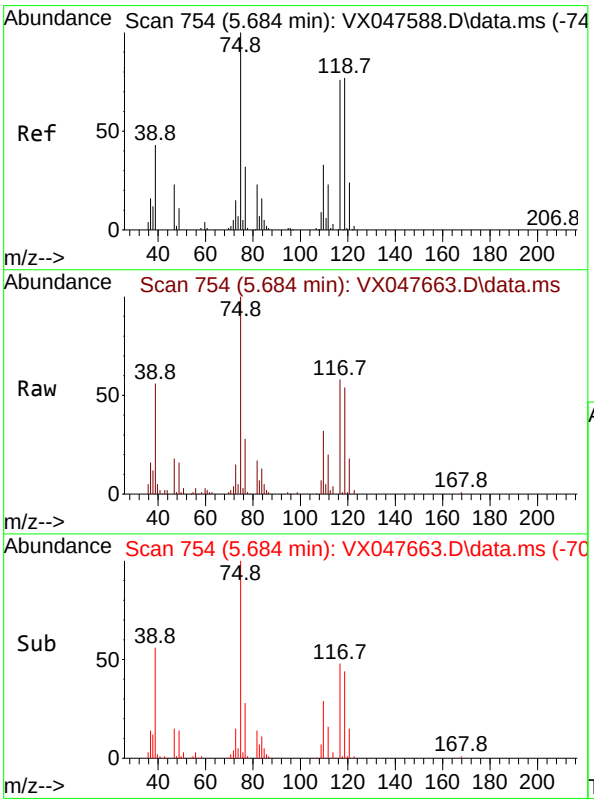
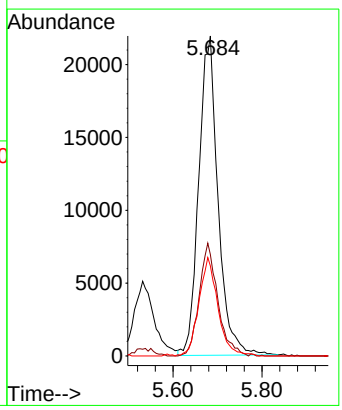
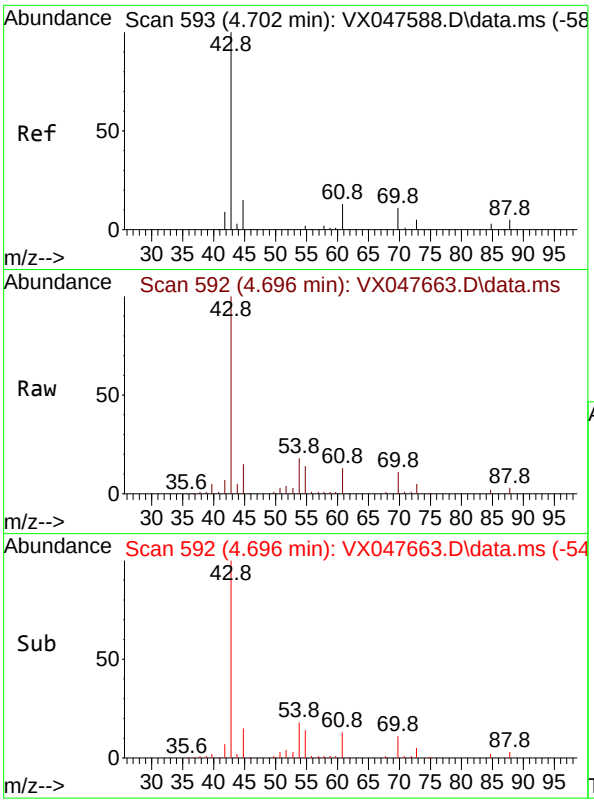


#36
1,1-Dichloropropene
Concen: 19.988 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 66091

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.7	50.1
77	30.5	24.3	36.5

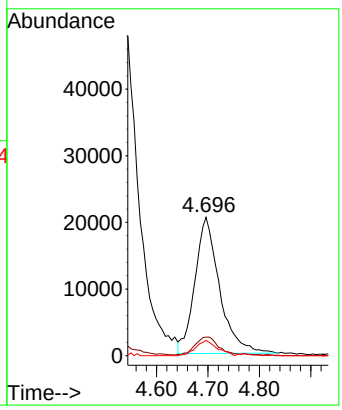




#37
Ethyl Acetate
Concen: 19.251 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 6815

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.6	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Manual Integrations
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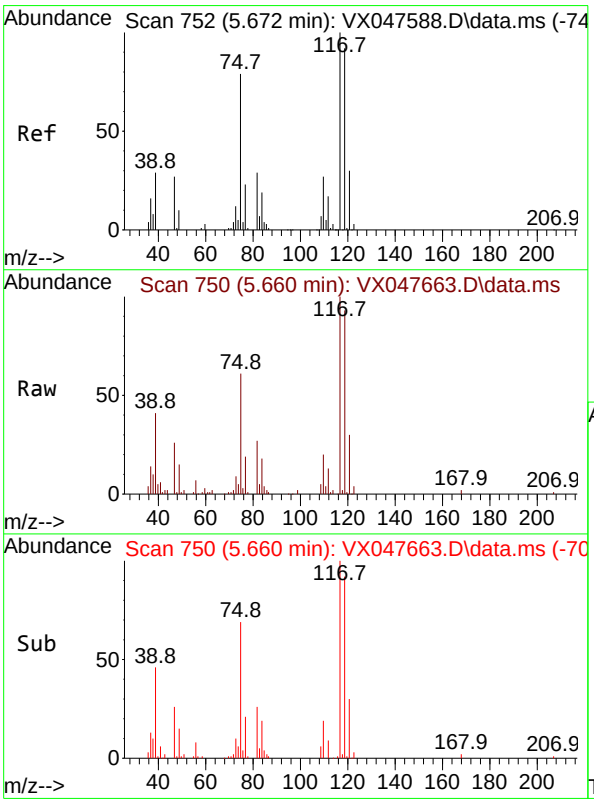
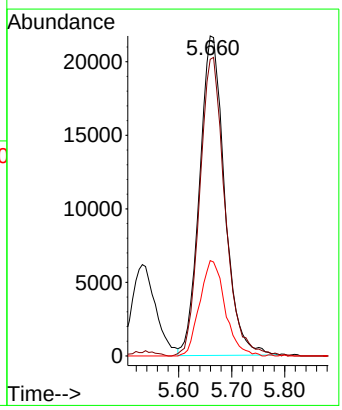
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

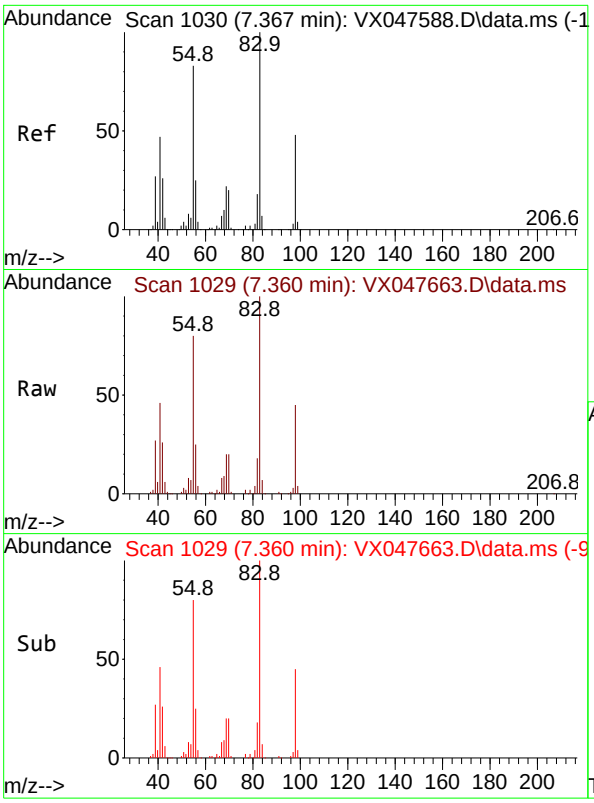


#38
Carbon Tetrachloride
Concen: 19.821 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:117 Resp: 71209

Ion	Ratio	Lower	Upper
117	100		
119	92.4	73.4	110.2
121	29.9	23.8	35.6

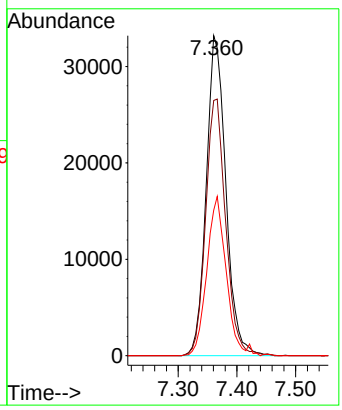




#39
Methylcyclohexane
Concen: 20.500 ug/l
RT: 7.360 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 83 Resp: 7694(

Ion	Ratio	Lower	Upper
83	100		
55	79.8	66.4	99.6
98	45.5	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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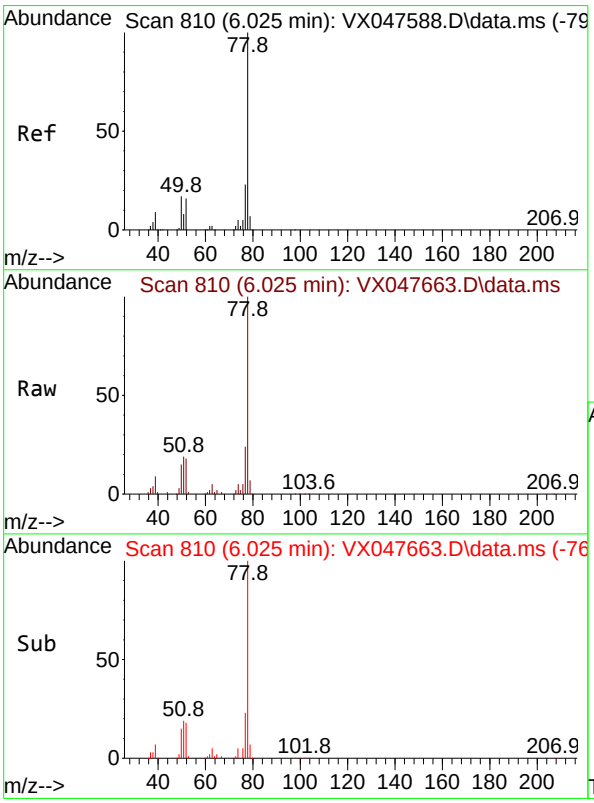
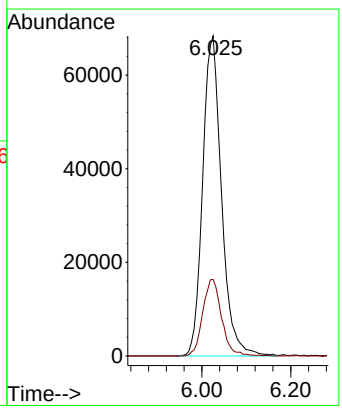
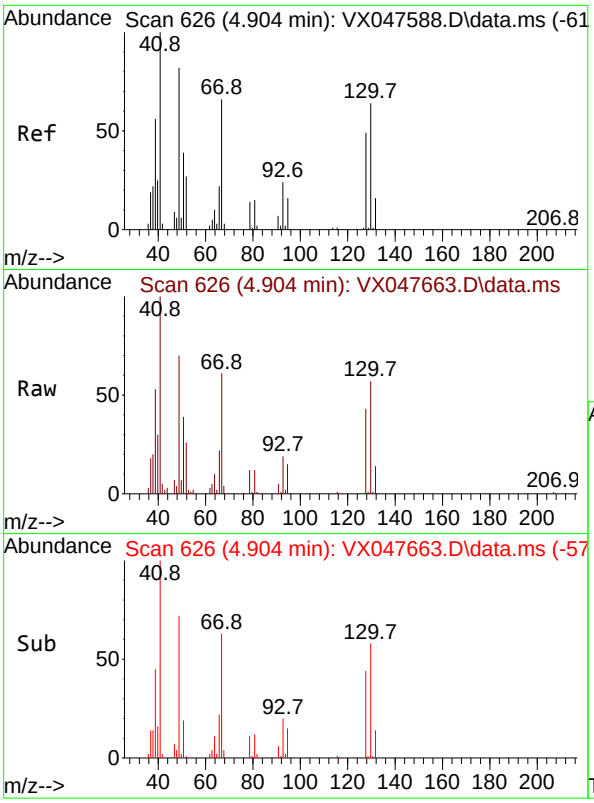


#40
Benzene
Concen: 20.095 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 78 Resp: 201814

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2

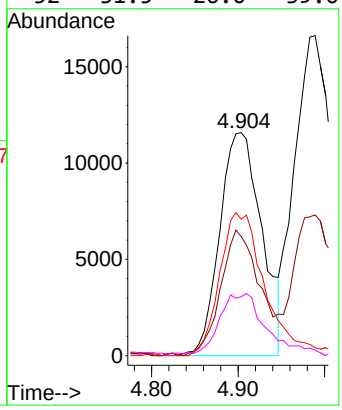




#41
Methacrylonitrile
Concen: 21.362 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 41 Resp: 3904

Ion	Ratio	Lower	Upper
41	100		
39	50.9	43.3	64.9
67	69.4	58.6	87.8
52	31.5	26.0	39.0



Instrument :
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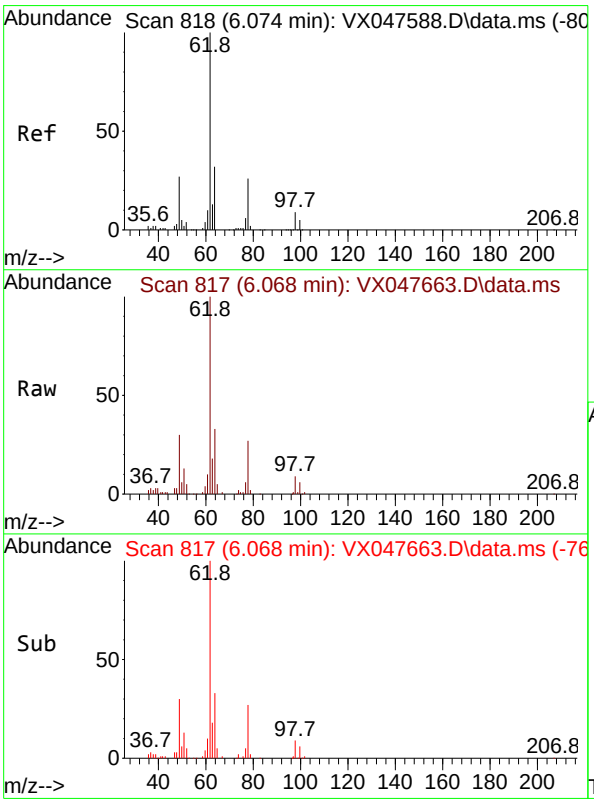
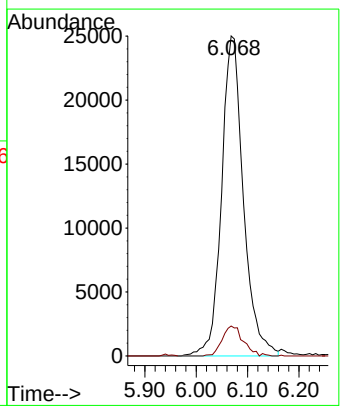
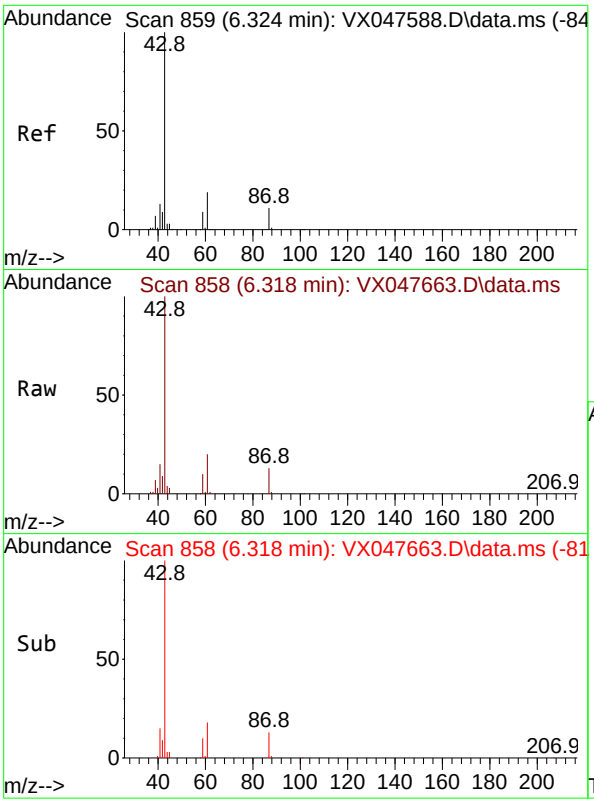


#42
1,2-Dichloroethane
Concen: 19.343 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 62 Resp: 73915

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0

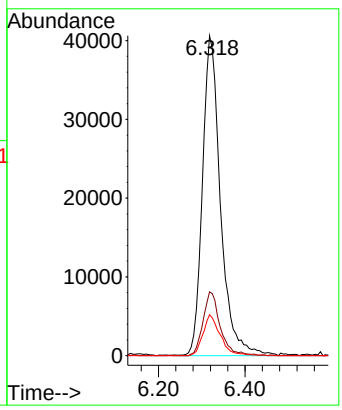




#43
Isopropyl Acetate
Concen: 20.269 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 11769

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.3	9.6	14.4



Instrument :
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ClientSampleId :
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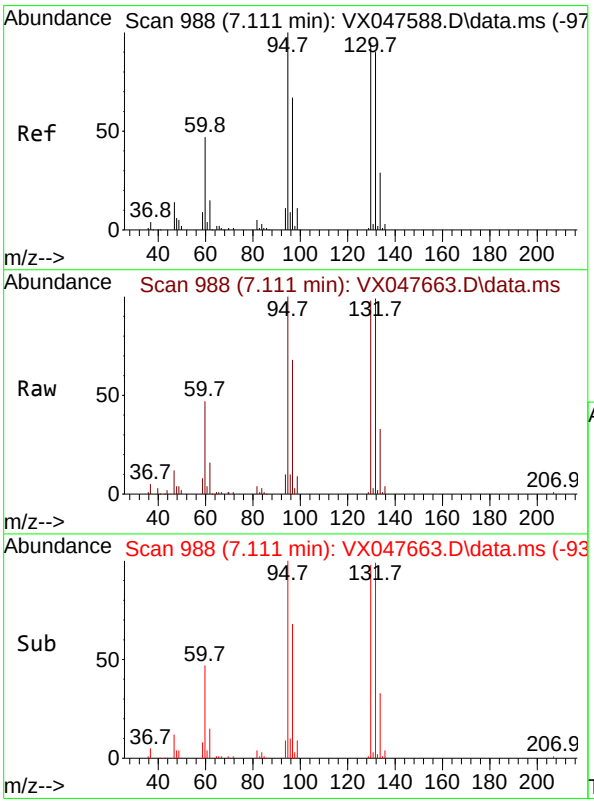
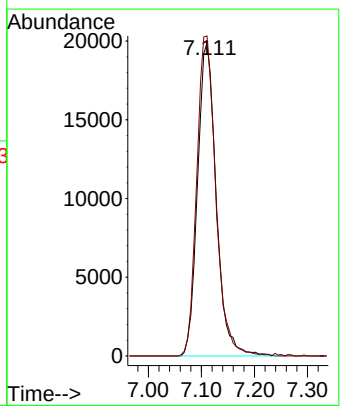
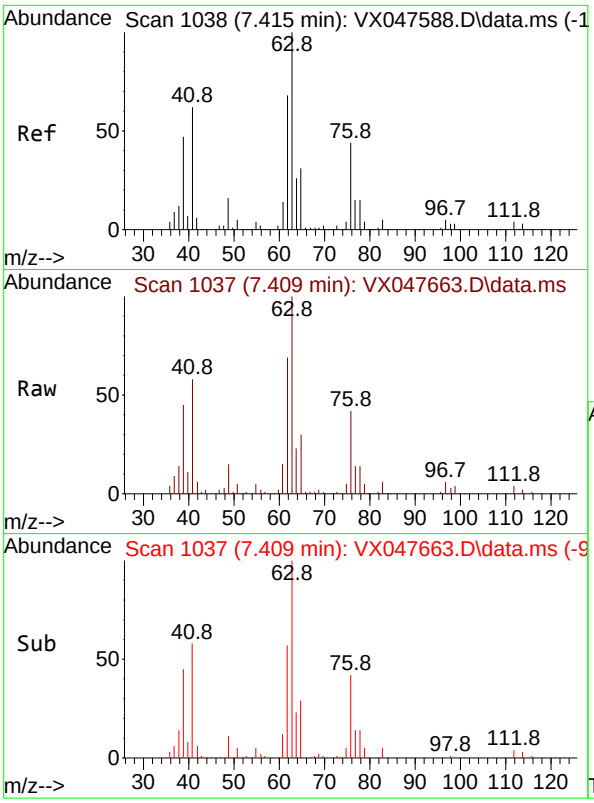


#44
Trichloroethene
Concen: 19.988 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:130 Resp: 48532

Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	210.8

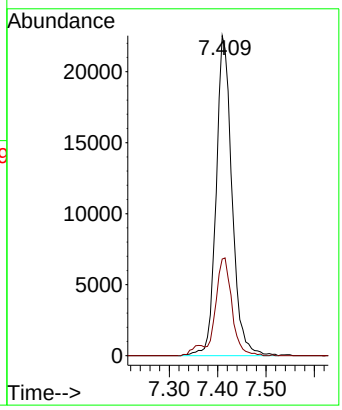




#45
1,2-Dichloropropane
Concen: 19.941 ug/l
RT: 7.409 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 63 Resp: 5128(

Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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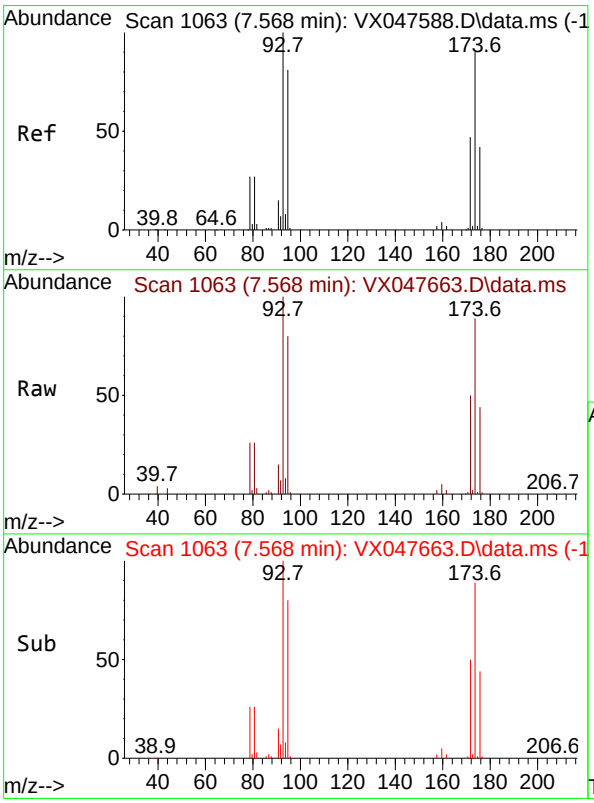
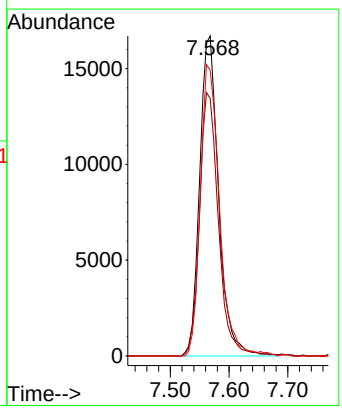
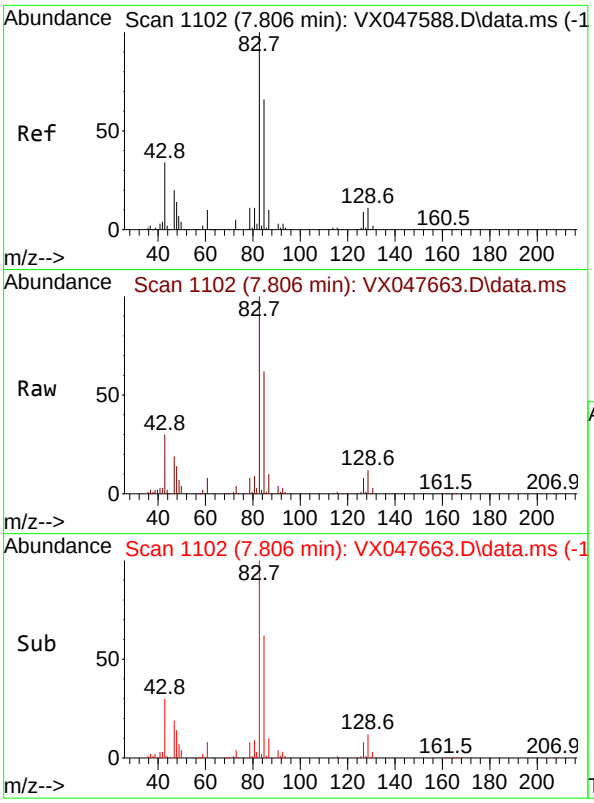


#46
Dibromomethane
Concen: 19.938 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 93 Resp: 37312

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.0	97.6
174	92.5	71.6	107.4

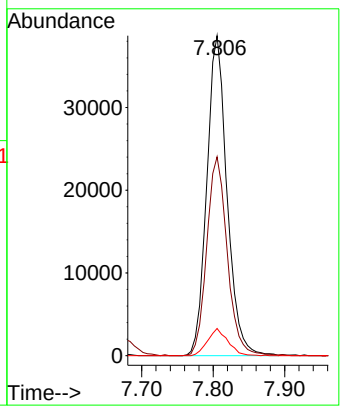




#47
Bromodichloromethane
Concen: 19.667 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 83 Resp: 7594

Ion	Ratio	Lower	Upper
83	100		
85	62.2	52.5	78.7
127	8.5	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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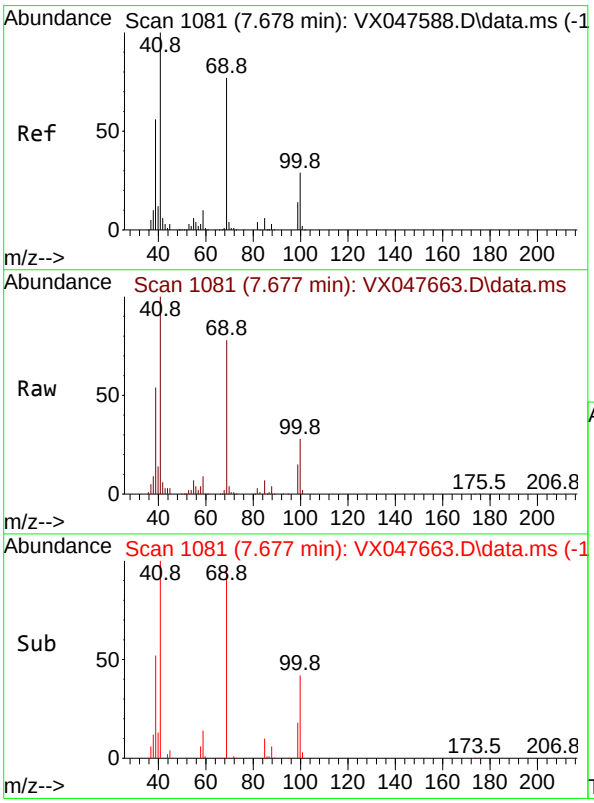
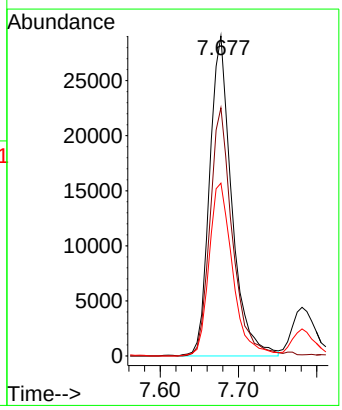
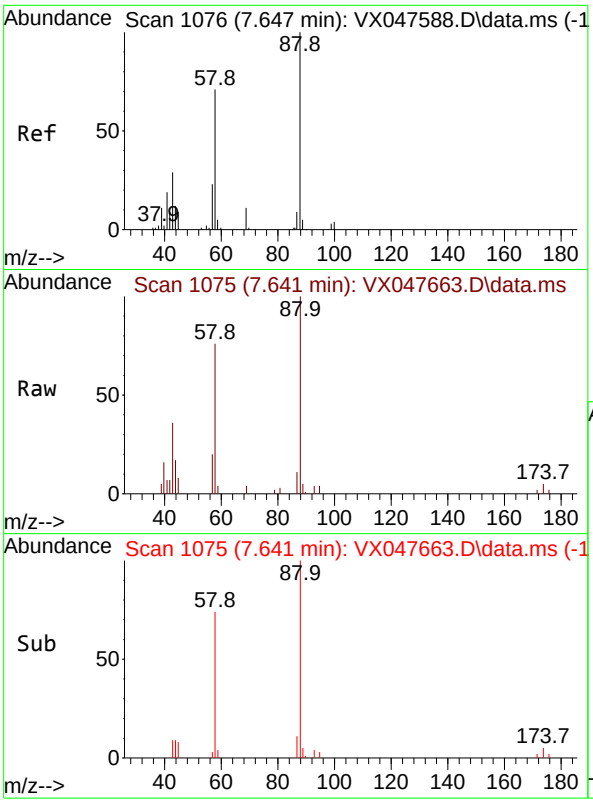


#48
Methyl methacrylate
Concen: 19.745 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 41 Resp: 57109

Ion	Ratio	Lower	Upper
41	100		
69	78.5	61.4	92.2
39	57.6	45.8	68.6

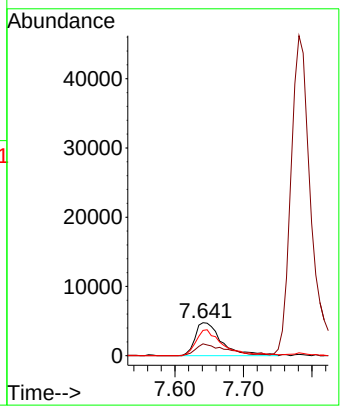




#49
1,4-Dioxane
Concen: 442.088 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 88 Resp: 1292

Ion	Ratio	Lower	Upper
88	100		
43	42.3	30.2	45.2
58	75.2	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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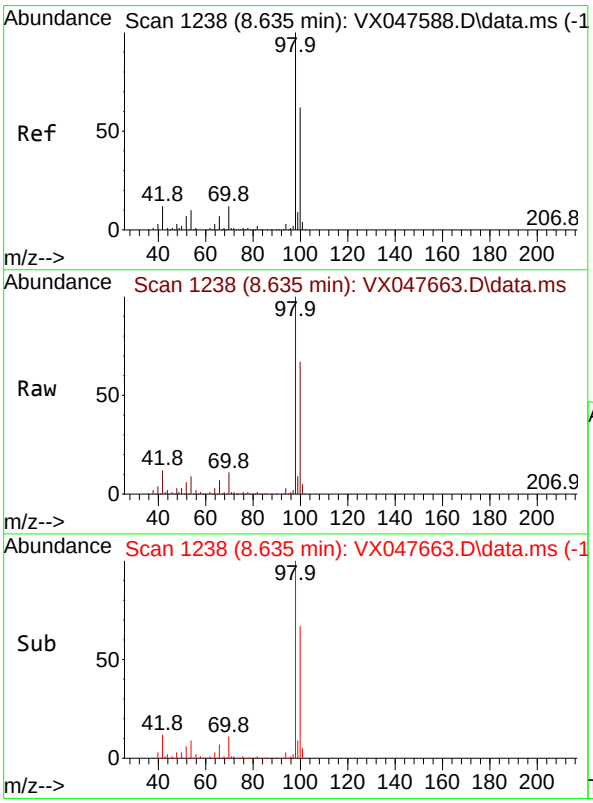
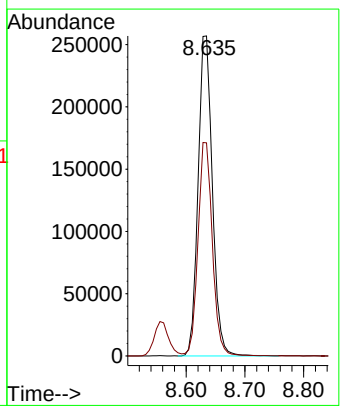
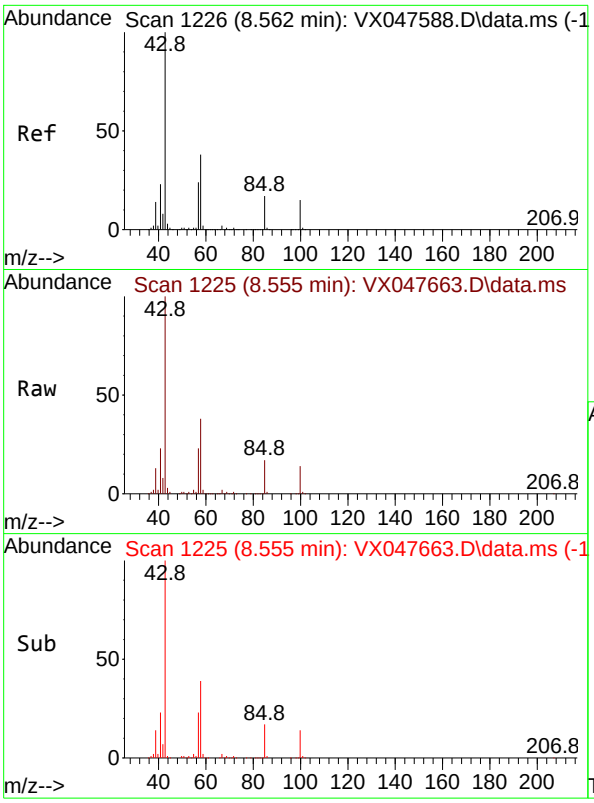


#50
Toluene-d8
Concen: 55.436 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 98 Resp: 434063

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4

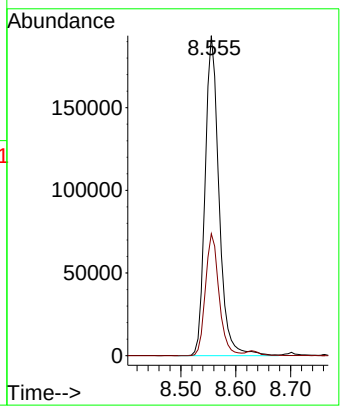




#51
4-Methyl-2-Pentanone
Concen: 105.728 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 34037

Ion	Ratio	Lower	Upper
43	100		
58	37.3	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
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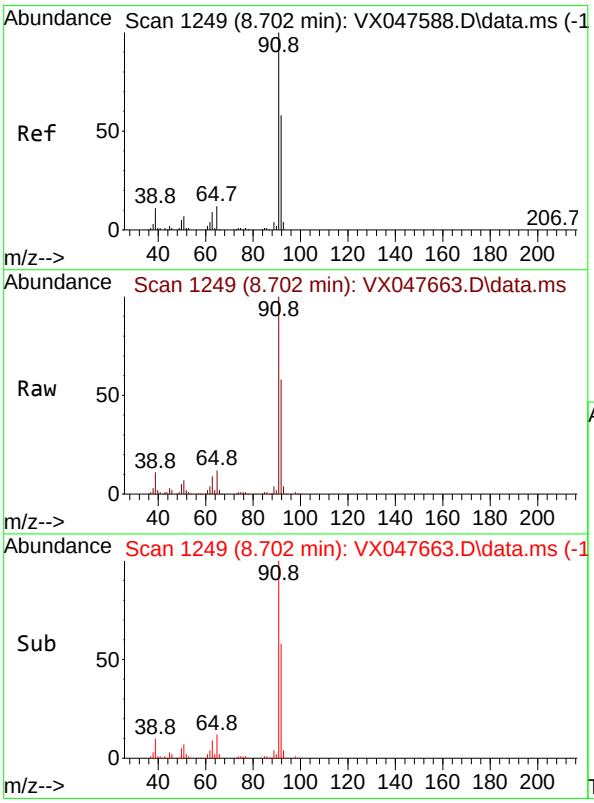
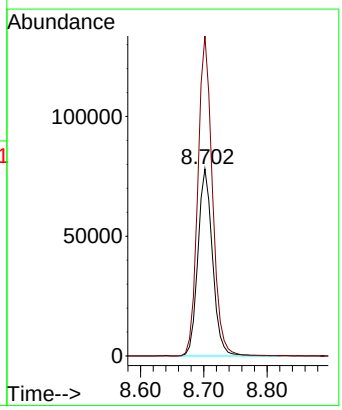
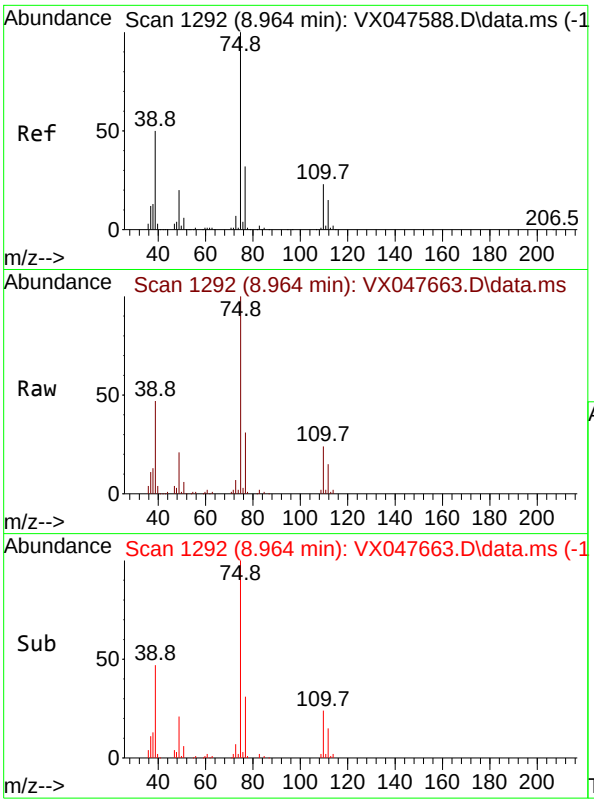


#52
Toluene
Concen: 20.286 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 92 Resp: 125521

Ion	Ratio	Lower	Upper
92	100		
91	170.8	137.1	205.7

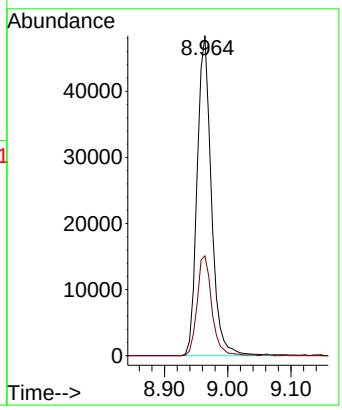




#53
t-1,3-Dichloropropene
Concen: 19.294 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 7599

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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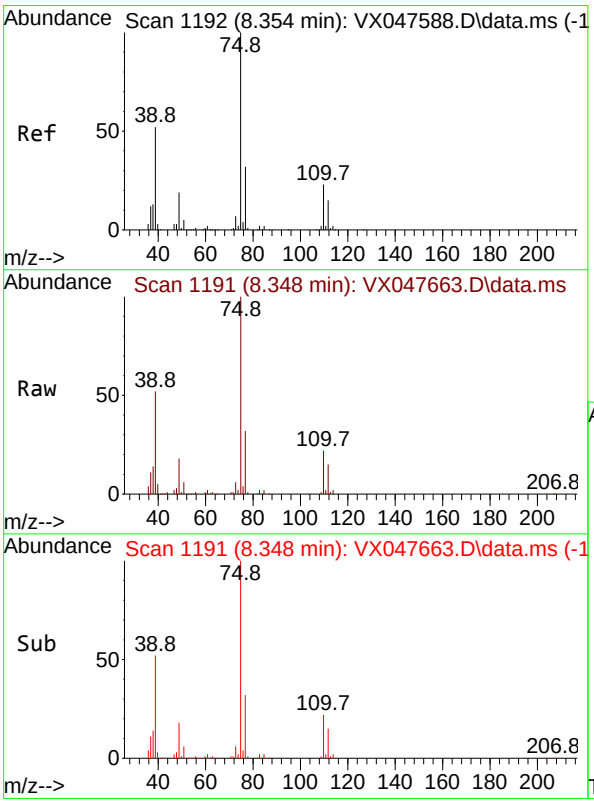
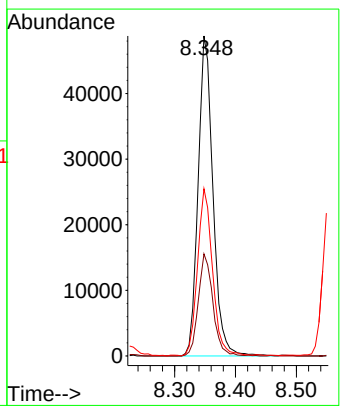
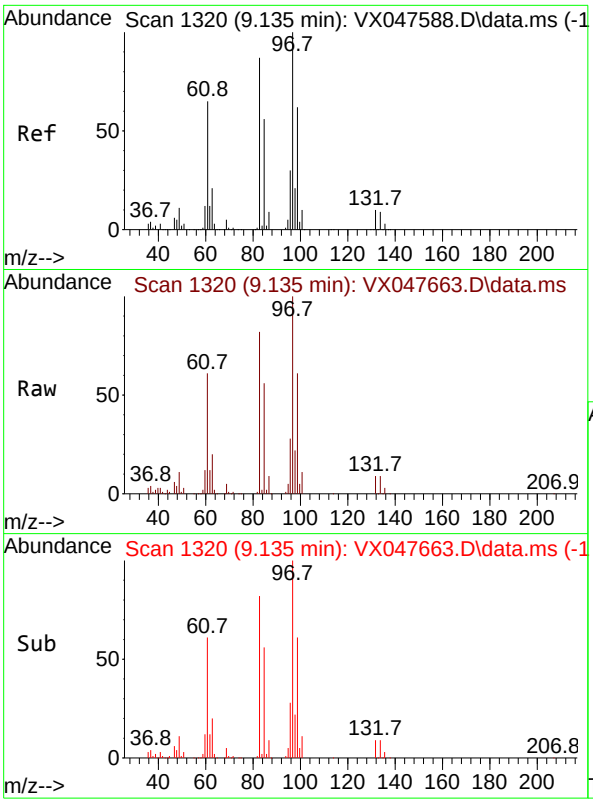


#54
cis-1,3-Dichloropropene
Concen: 19.649 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 82725

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.8	38.6
39	52.1	41.4	62.2

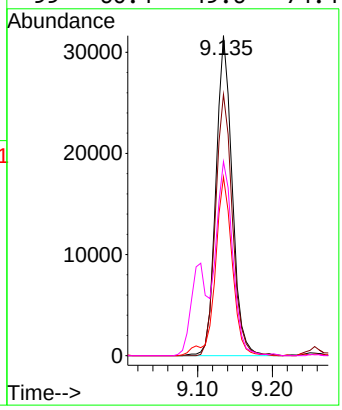




#55
1,1,2-Trichloroethane
Concen: 20.021 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 97 Resp: 4776

Ion	Ratio	Lower	Upper
97	100		
83	81.6	69.6	104.4
85	55.8	45.0	67.6
99	60.4	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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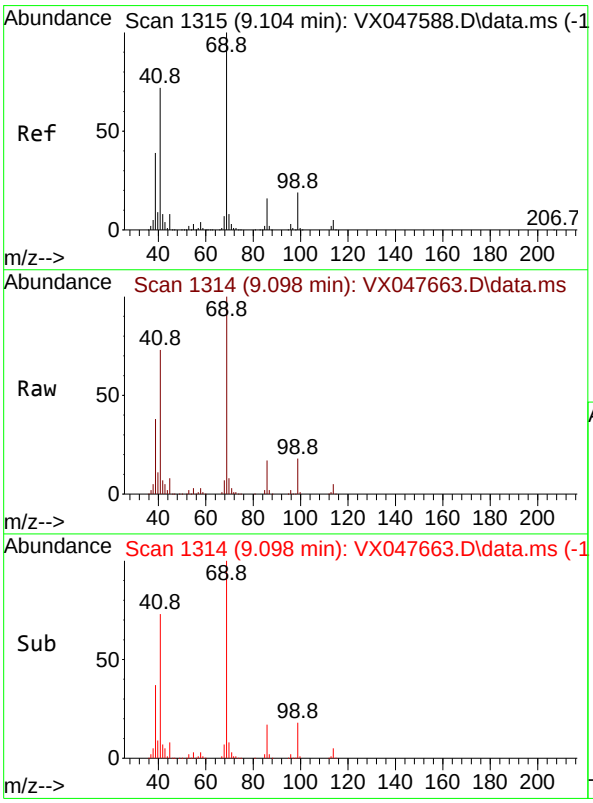
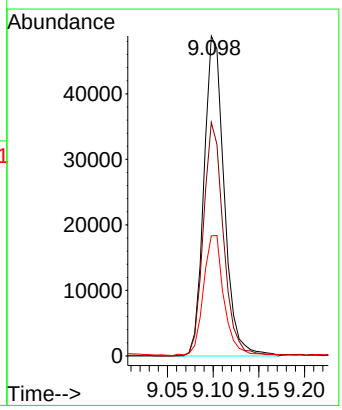
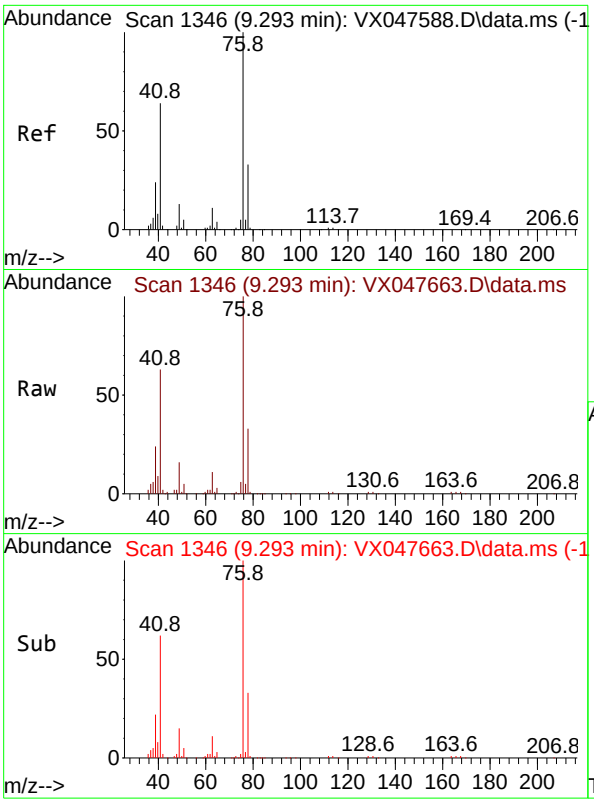


#56
Ethyl methacrylate
Concen: 19.988 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 69 Resp: 74891

Ion	Ratio	Lower	Upper
69	100		
41	73.1	58.6	87.8
39	38.6	31.5	47.3





#57
1,3-Dichloropropane
Concen: 20.427 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 76 Resp: 8372

Ion	Ratio	Lower	Upper
76	100		
78	31.7	26.2	39.4

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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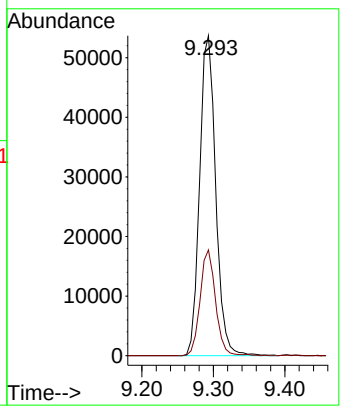
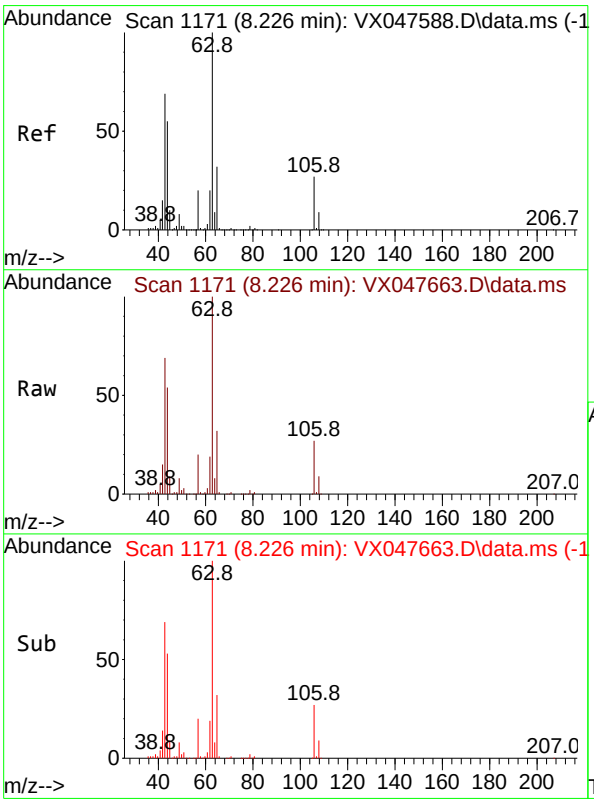
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

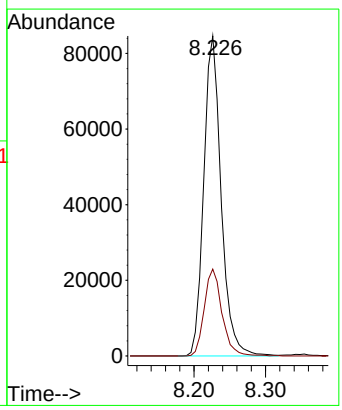


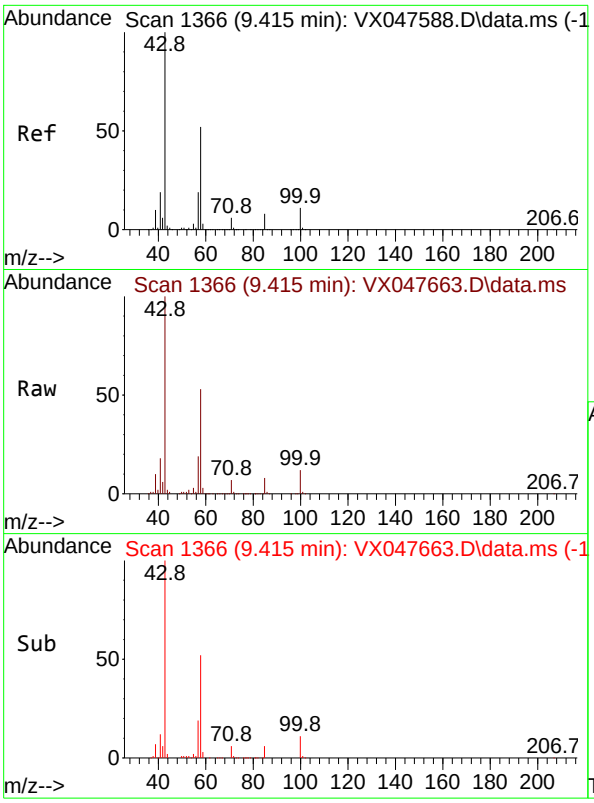


#58
2-Chloroethyl Vinyl ether
Concen: 87.280 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 63 Resp: 143078

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9

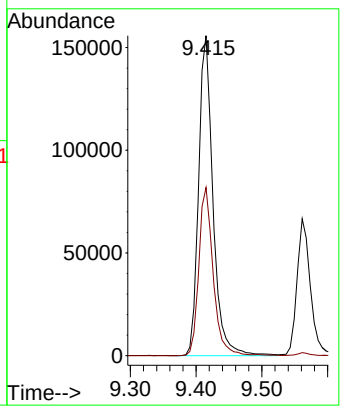




#59
2-Hexanone
Concen: 102.353 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 23665

Ion	Ratio	Lower	Upper
43	100		
58	52.5	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
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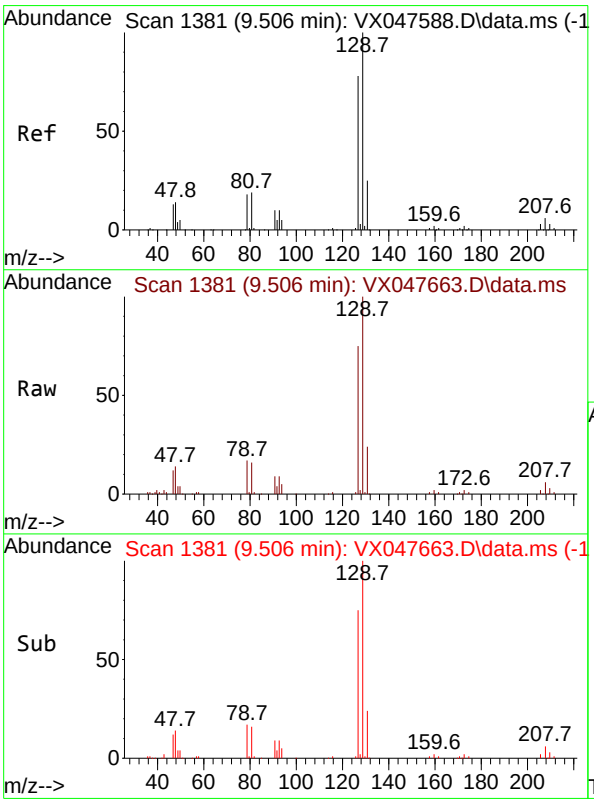
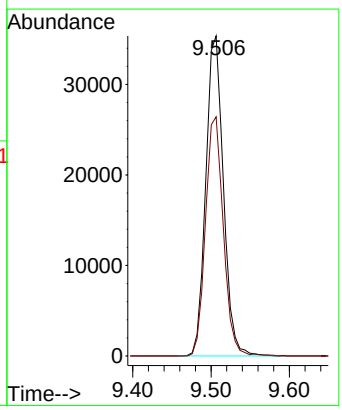
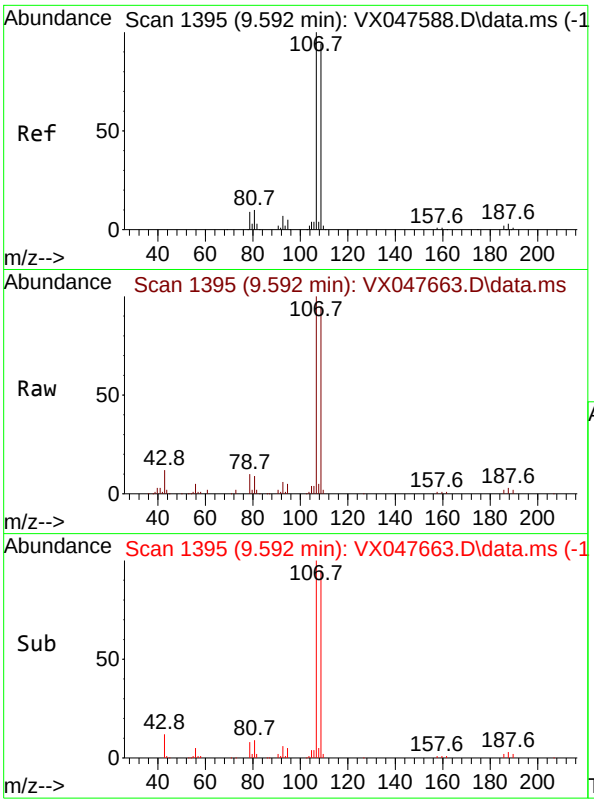


#60
Dibromochloromethane
Concen: 20.047 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:129 Resp: 55109

Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.4	115.2

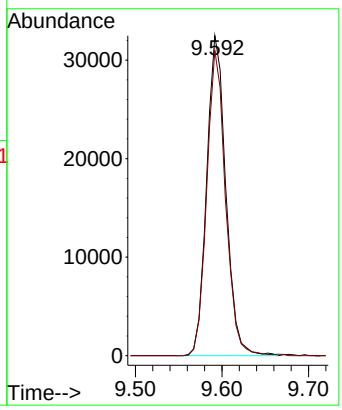




#61
1,2-Dibromoethane
Concen: 20.516 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:107 Resp: 4985

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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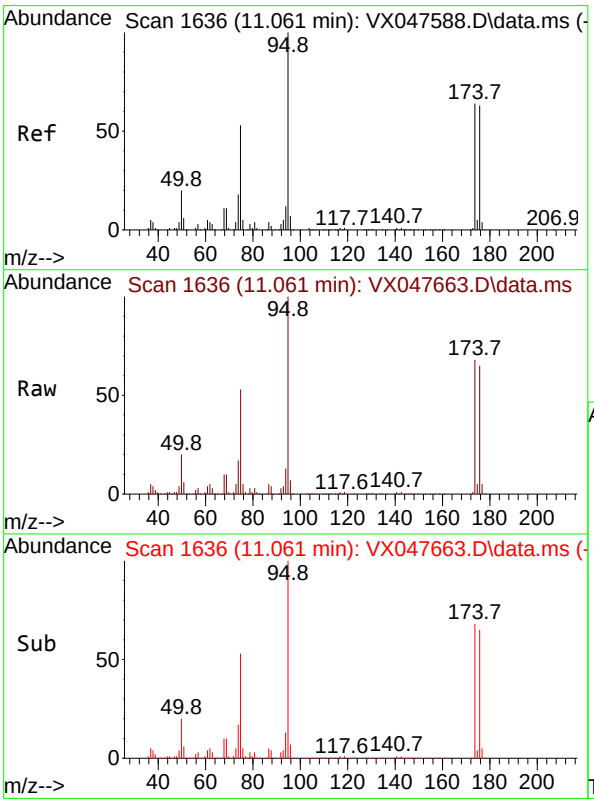
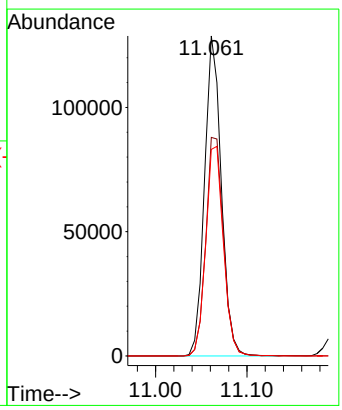
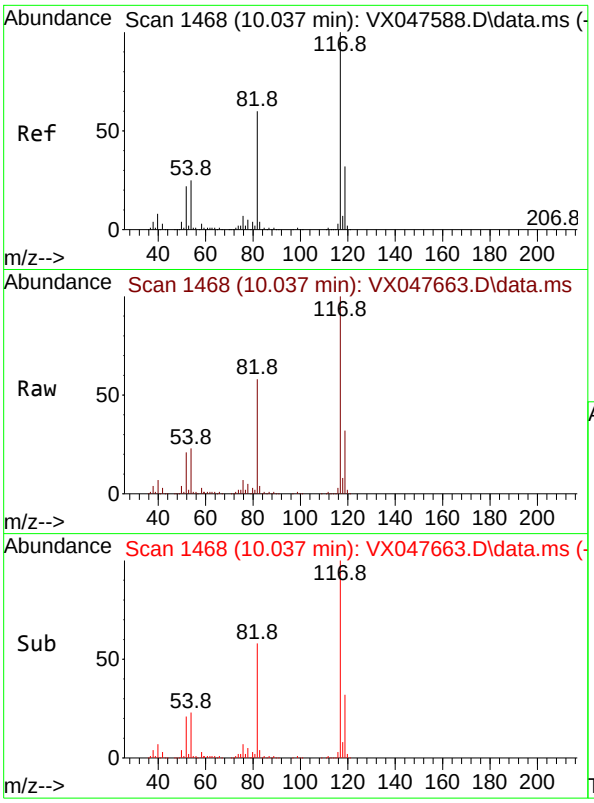


#62
4-Bromofluorobenzene
Concen: 55.000 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 95 Resp: 163439

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.6
176	69.2	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:117 Resp: 29857

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	32.5	25.2	37.8

Instrument :
MSVOA_X
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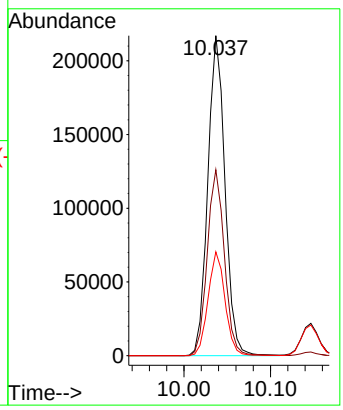
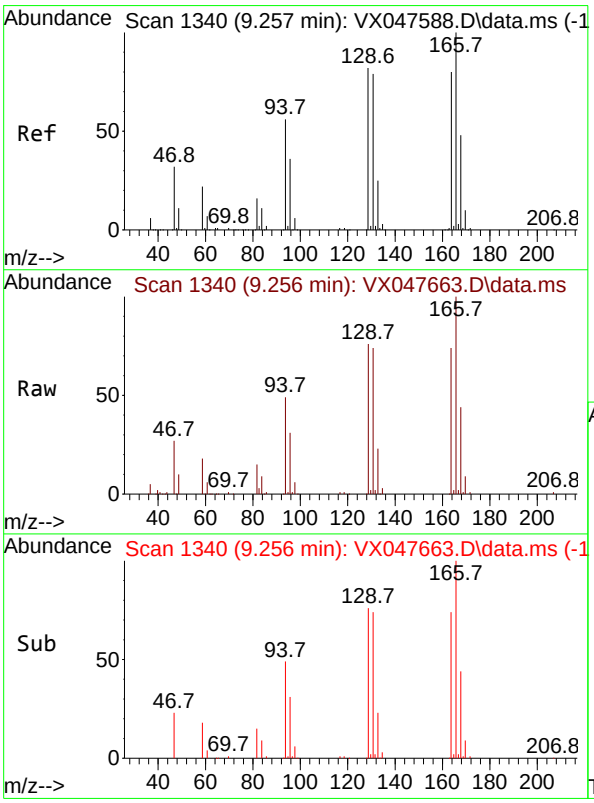
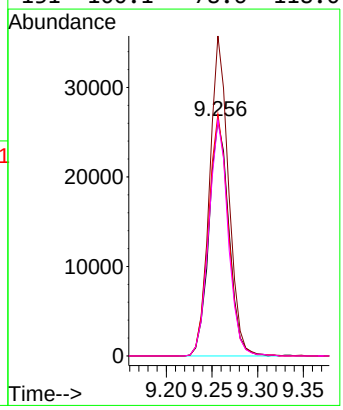


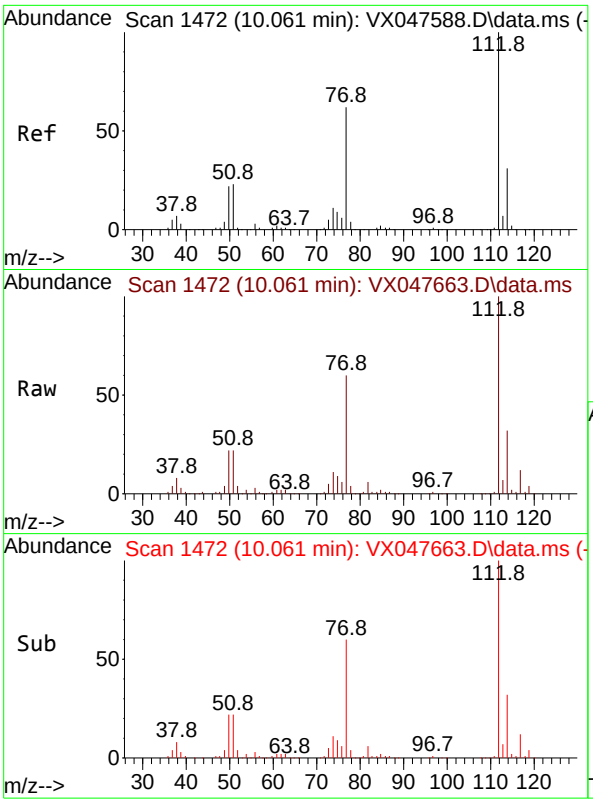


#64
Tetrachloroethene
Concen: 20.395 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:164 Resp: 39697

Ion	Ratio	Lower	Upper
164	100		
166	135.9	100.2	150.2
129	102.8	81.8	122.6
131	100.1	78.6	118.0

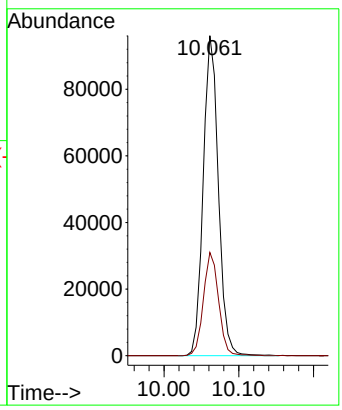




#65
Chlorobenzene
Concen: 19.879 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:112 Resp: 13484

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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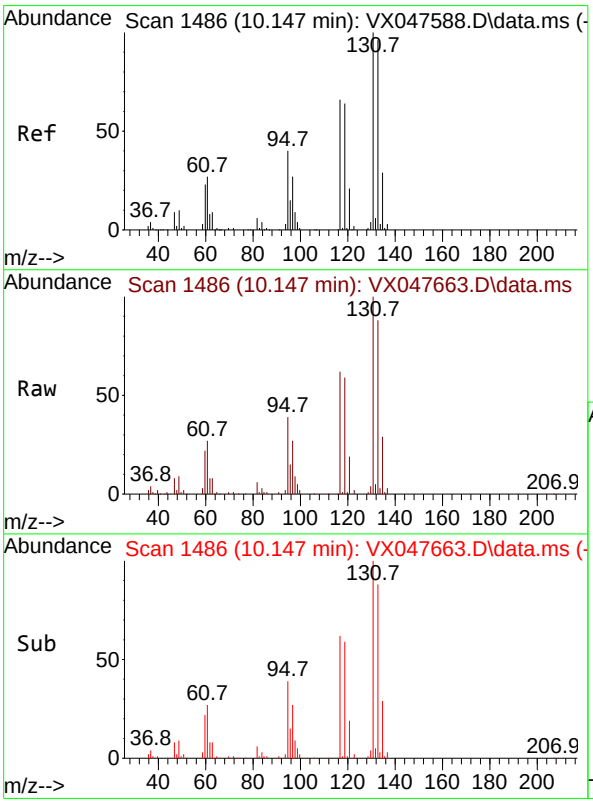
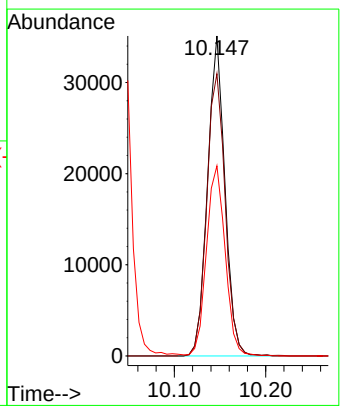
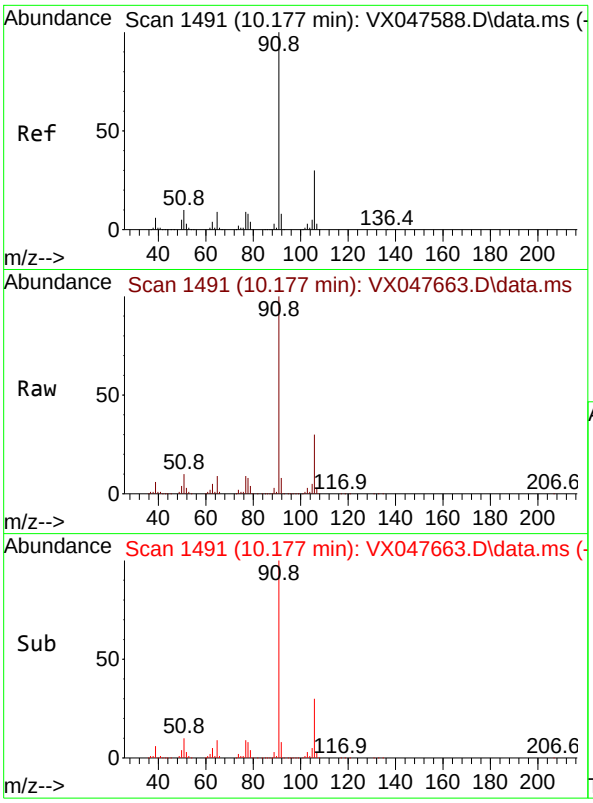


#66
1,1,1,2-Tetrachloroethane
Concen: 19.758 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:131 Resp: 46247

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.3	142.0
119	64.0	32.0	96.0

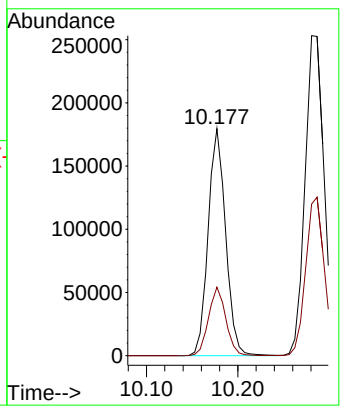




#67
Ethyl Benzene
Concen: 20.374 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 91 Resp: 23845

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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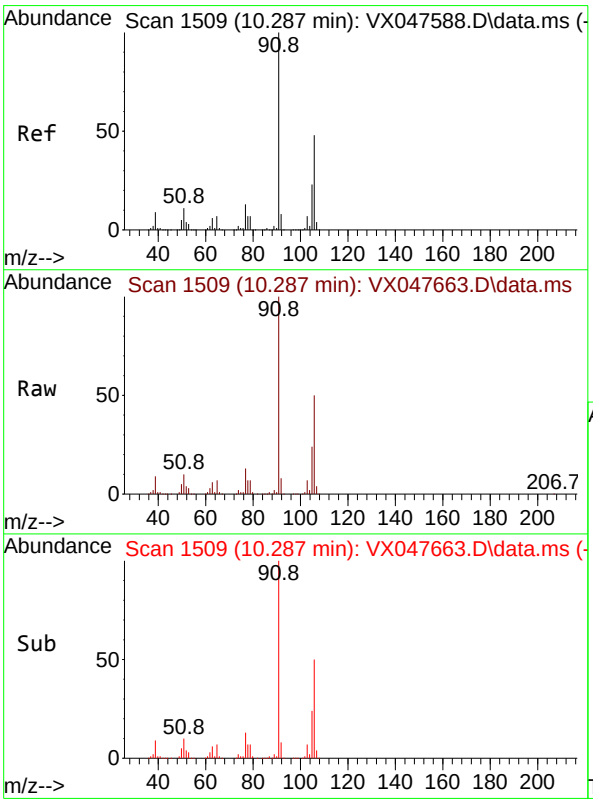
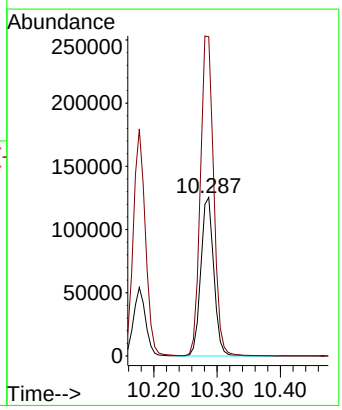
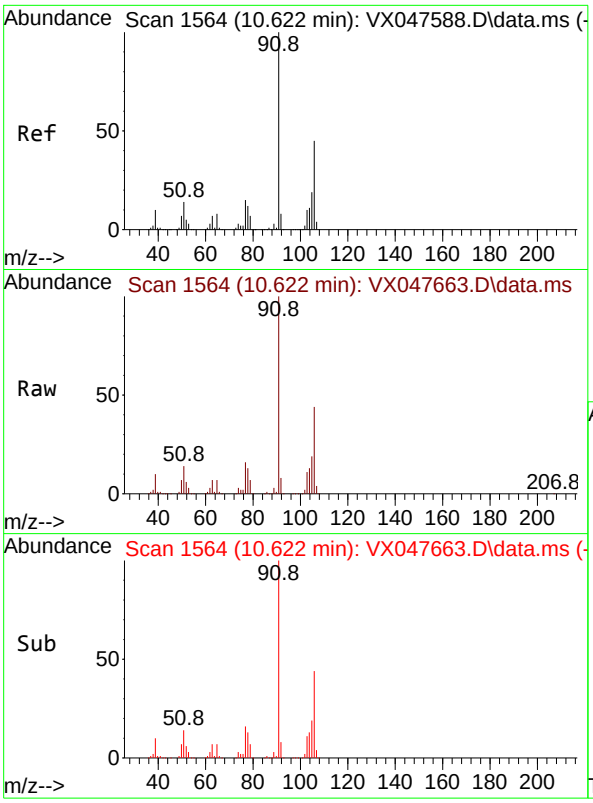


#68
m/p-Xylenes
Concen: 41.206 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:106 Resp: 179504

Ion	Ratio	Lower	Upper
106	100		
91	206.9	167.8	251.8

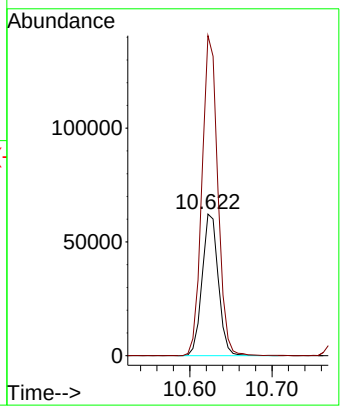




#69
o-Xylene
Concen: 20.146 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:106 Resp: 8488

Ion	Ratio	Lower	Upper
106	100		
91	222.0	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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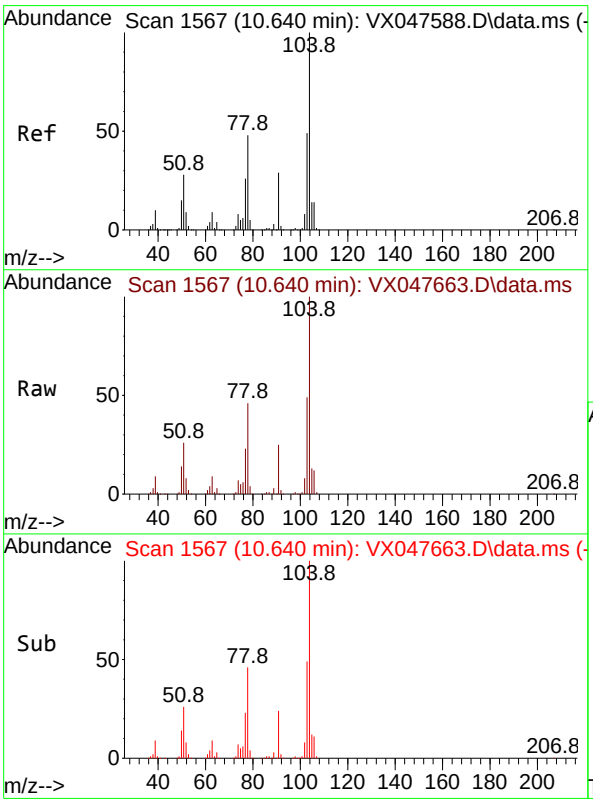
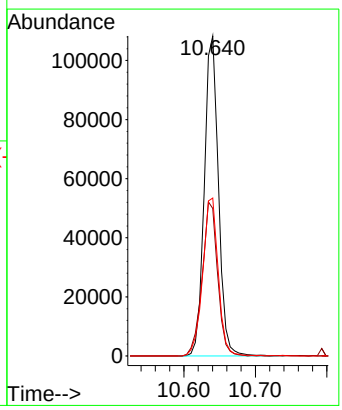
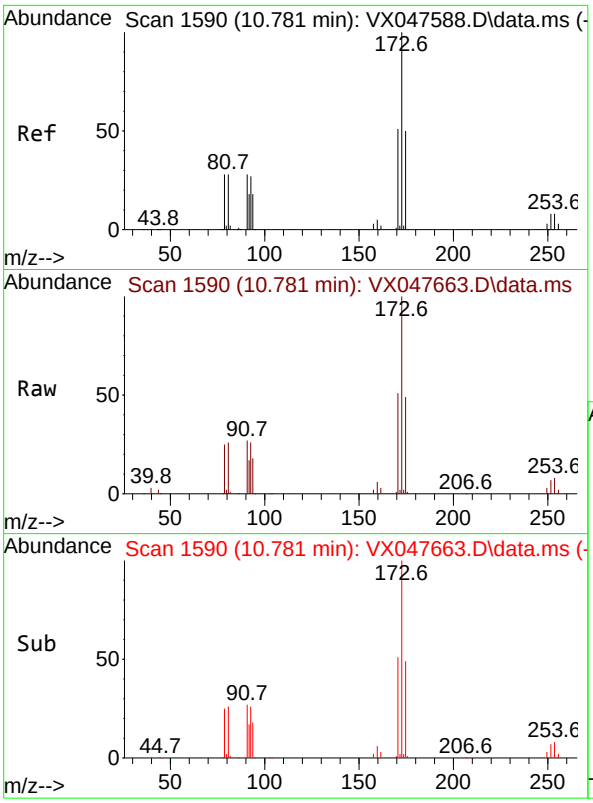


#70
Styrene
Concen: 20.153 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:104 Resp: 148789

Ion	Ratio	Lower	Upper
104	100		
78	52.5	43.1	64.7
103	54.3	43.1	64.7

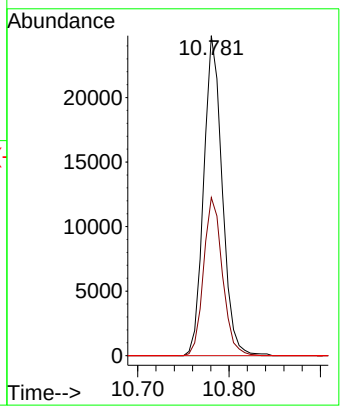




#71
Bromoform
Concen: 19.876 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:173 Resp: 3473

Ion	Ratio	Lower	Upper
173	100		
175	50.3	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
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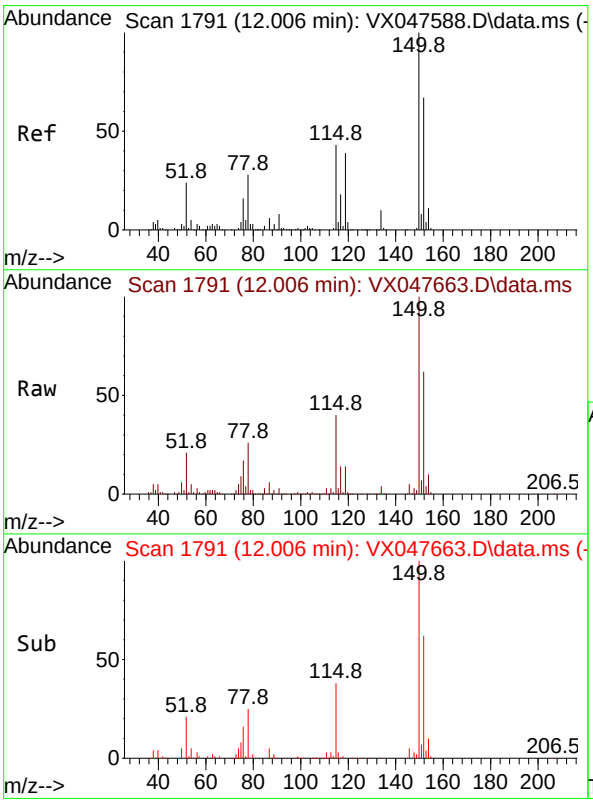
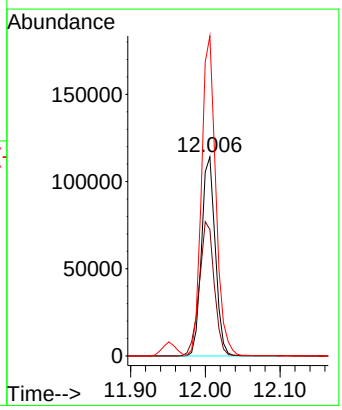
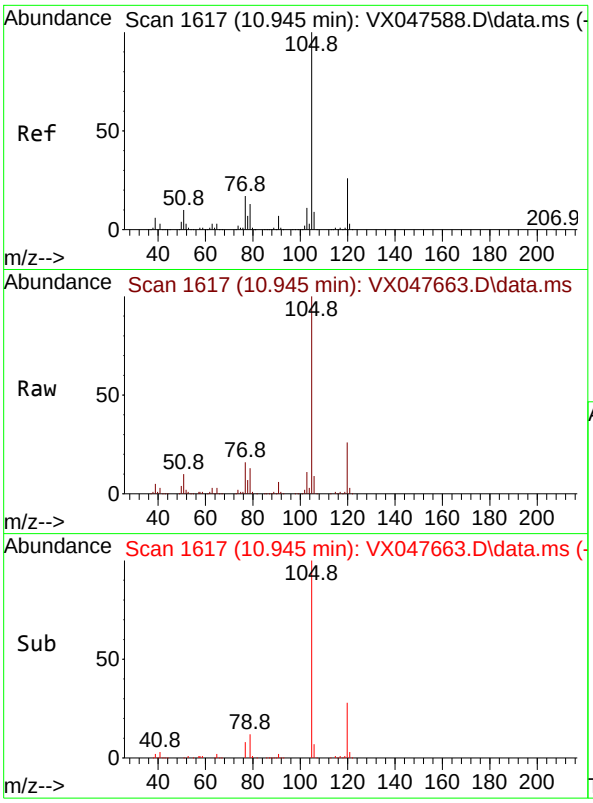


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:152 Resp: 146041

Ion	Ratio	Lower	Upper
152	100		
115	73.4	44.9	134.5
150	166.7	0.0	352.0

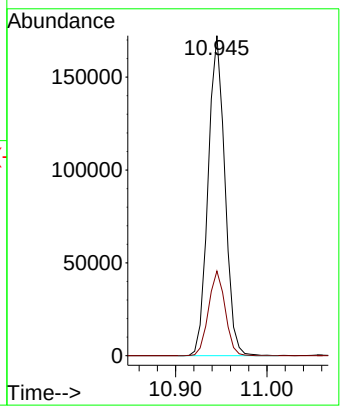




#73
Isopropylbenzene
Concen: 19.692 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:105 Resp: 21863

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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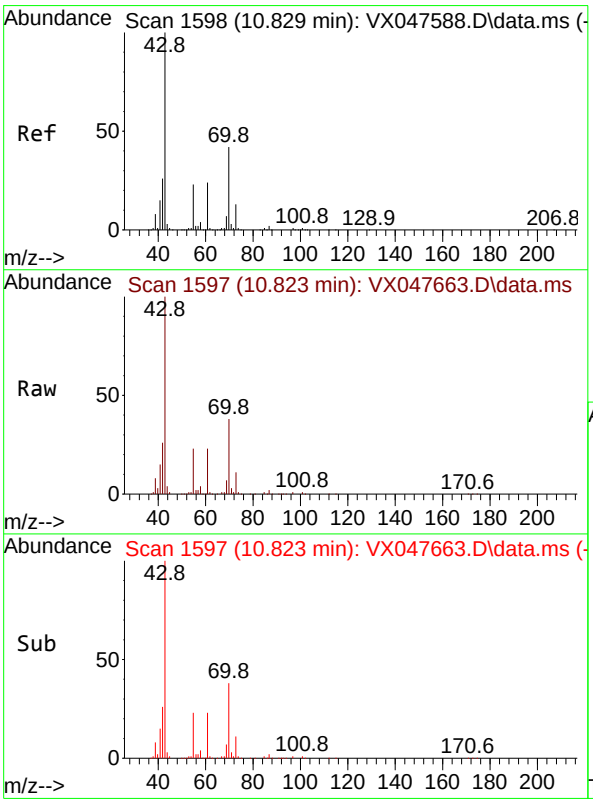
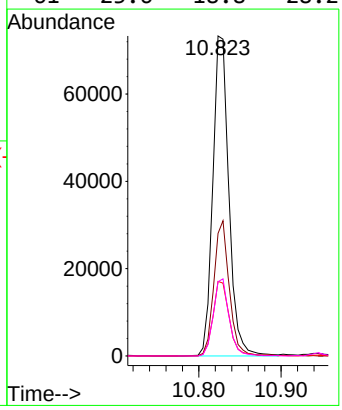
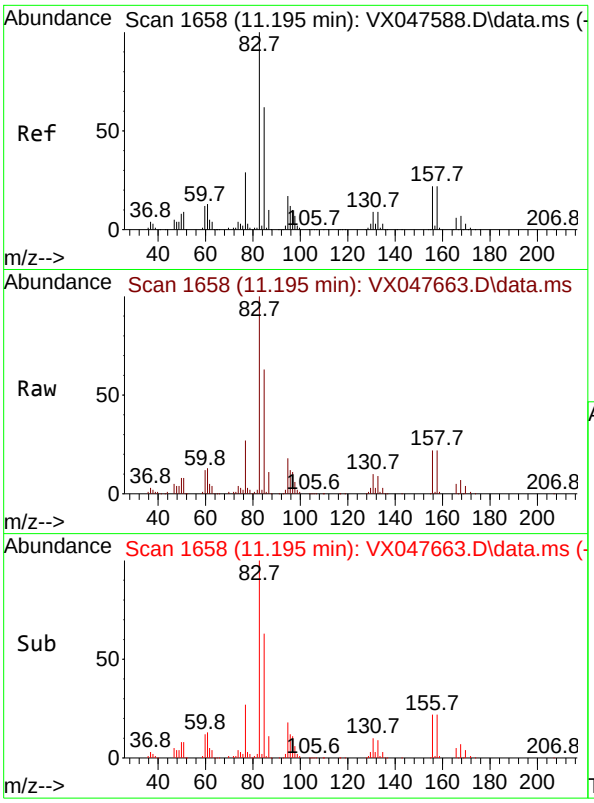


#74
N-amyl acetate
Concen: 19.678 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 99633

Ion	Ratio	Lower	Upper
43	100		
70	40.5	32.0	48.0
55	23.8	18.9	28.3
61	23.6	18.8	28.2

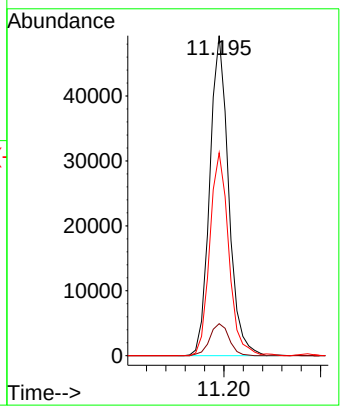




#75
1,1,2,2-Tetrachloroethane
Concen: 19.852 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 83 Resp: 6668

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	63.9	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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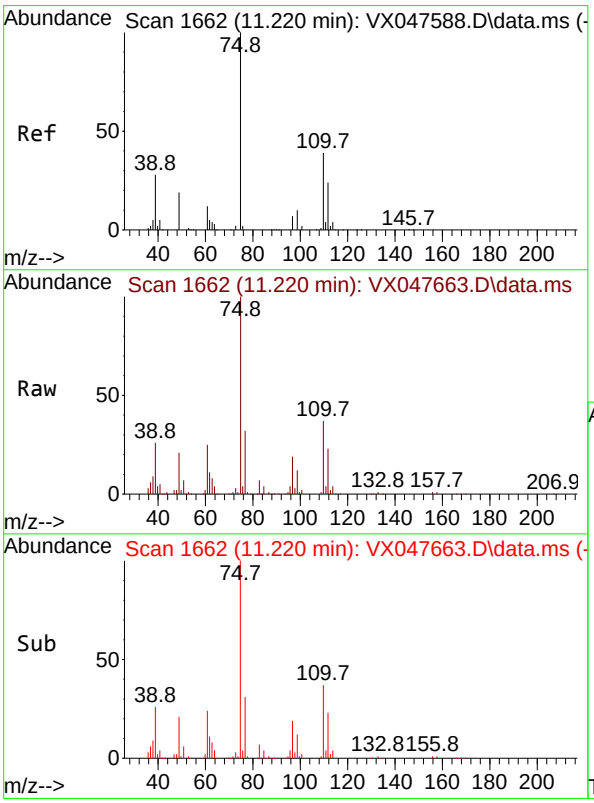
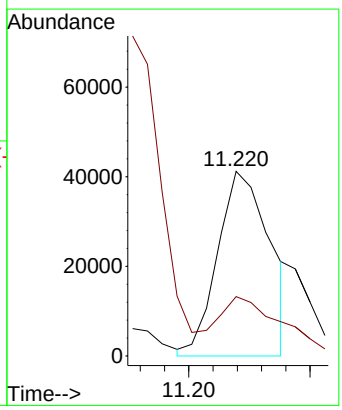
Supervised By :Mahesh Dadoda 09/22/2025

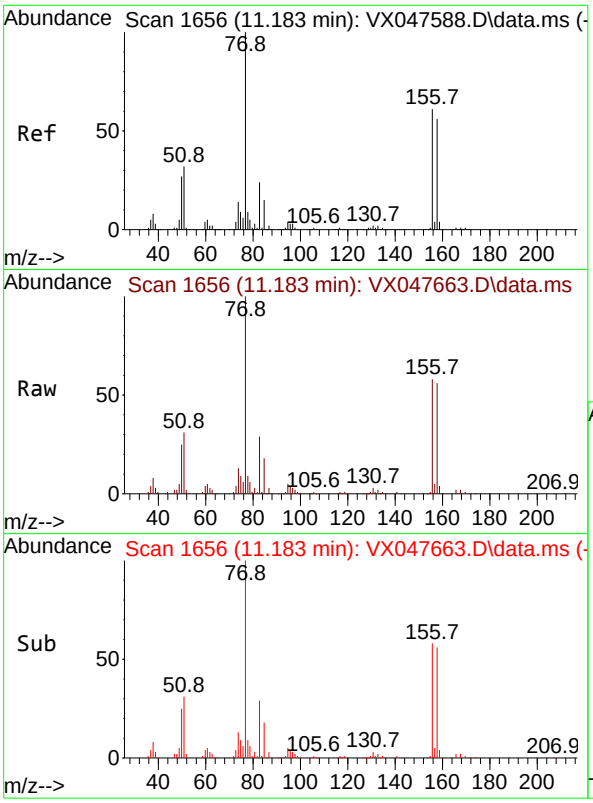


#76
1,2,3-Trichloropropane
Concen: 20.818 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 61556

Ion	Ratio	Lower	Upper
75	100		
77	37.5	18.8	56.4

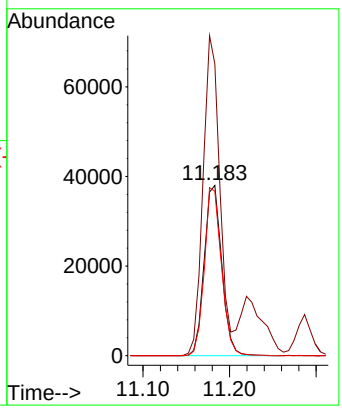




#77
Bromobenzene
Concen: 19.571 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:156 Resp: 5351

Ion	Ratio	Lower	Upper
156	100		
77	177.7	89.7	269.1
158	96.3	47.9	143.6



Instrument :
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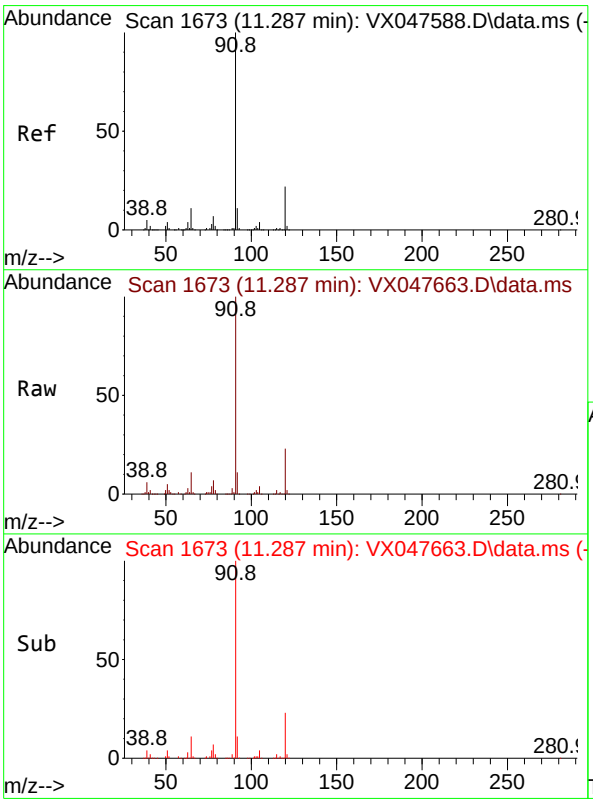
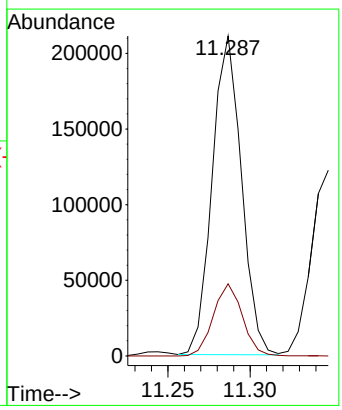
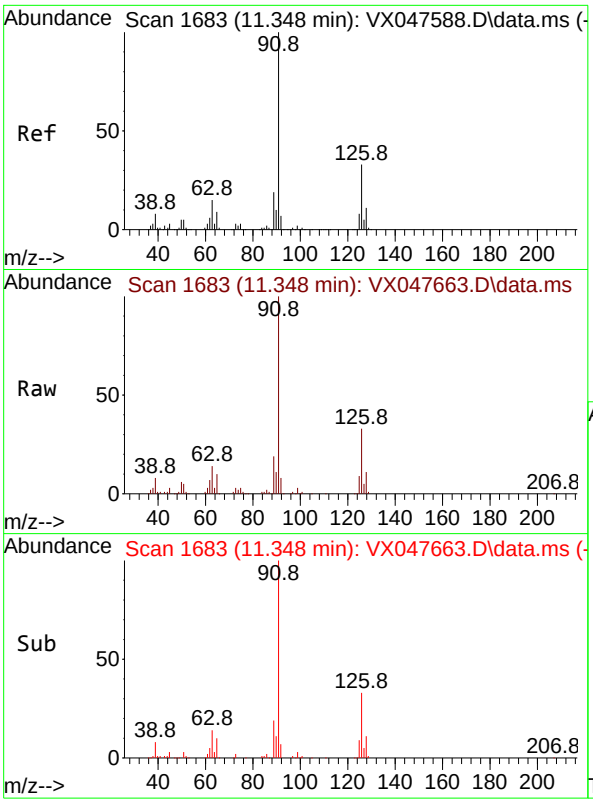


#78
n-propylbenzene
Concen: 19.847 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 91 Resp: 260496

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1





#79
2-Chlorotoluene
Concen: 19.476 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 91 Resp: 15656

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.1	48.3

Instrument :
MSVOA_X
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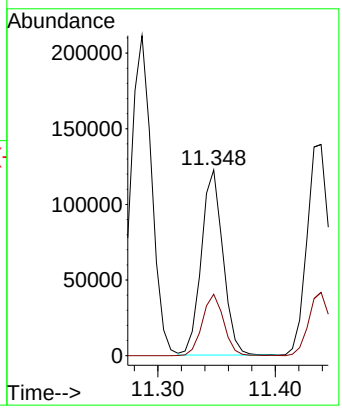
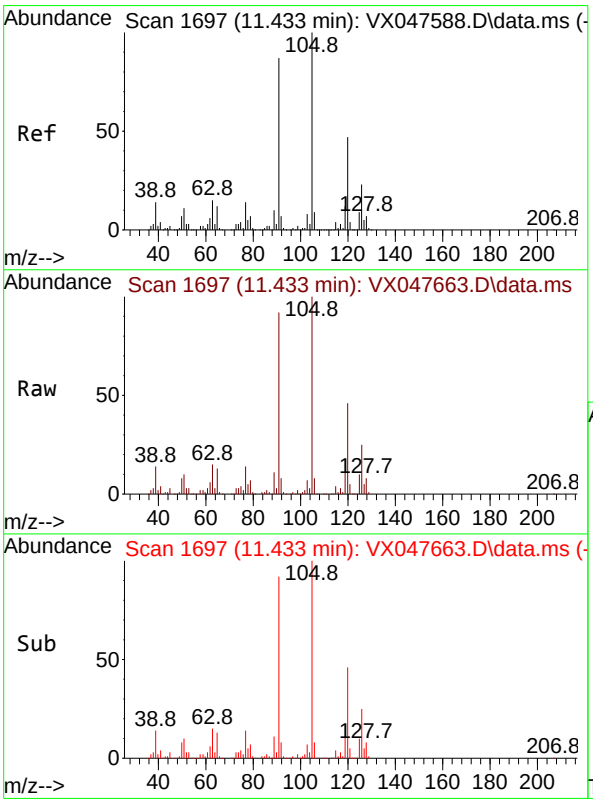
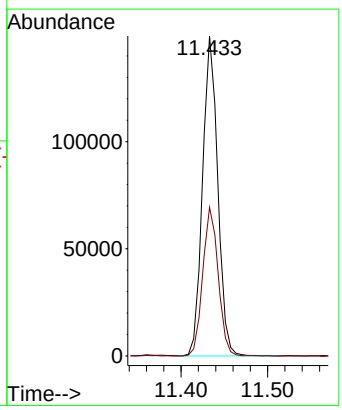


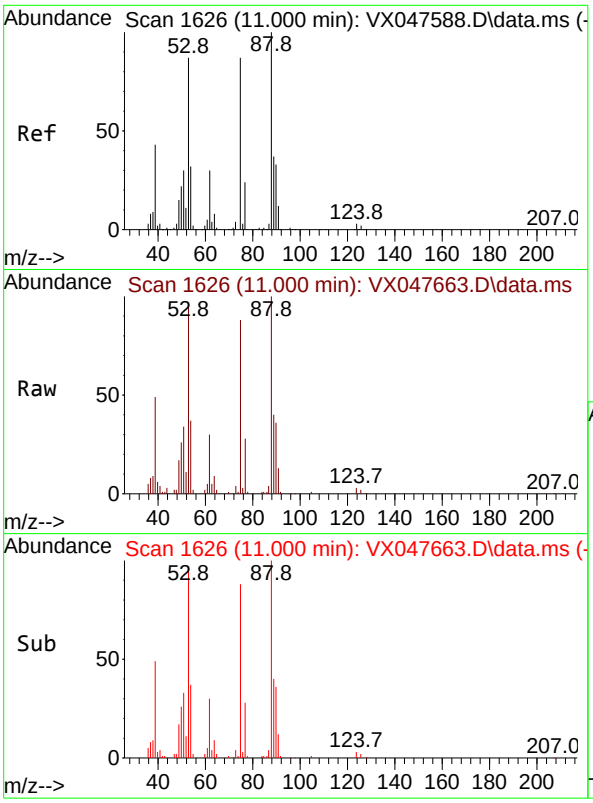


#80
1,3,5-Trimethylbenzene
Concen: 19.931 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:105 Resp: 181815

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8

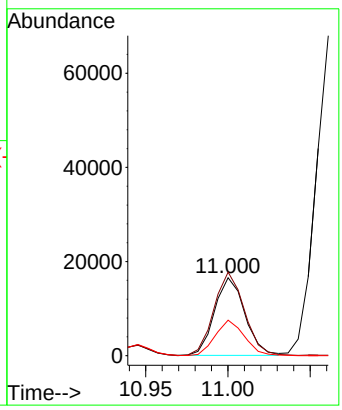




#81
trans-1,4-Dichloro-2-butene
Concen: 18.252 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 2116

Ion	Ratio	Lower	Upper
75	100		
53	108.0	83.4	125.2
89	44.1	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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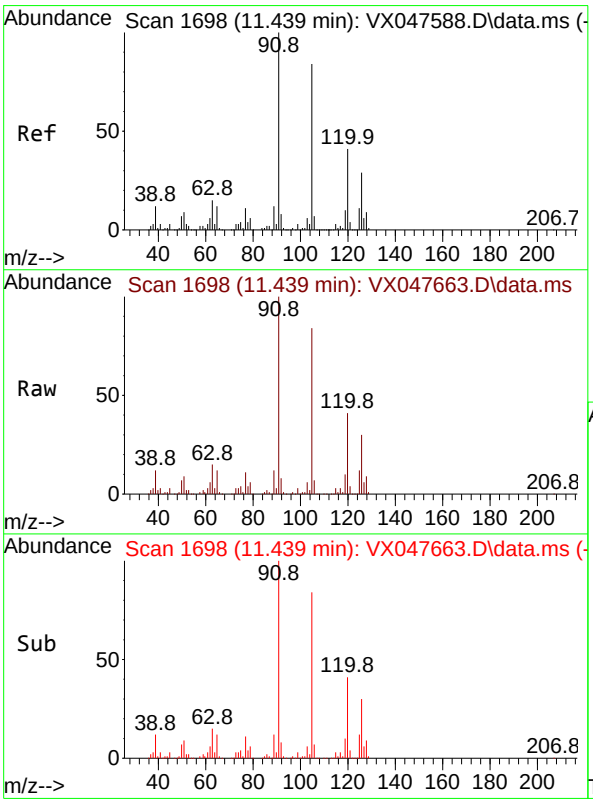
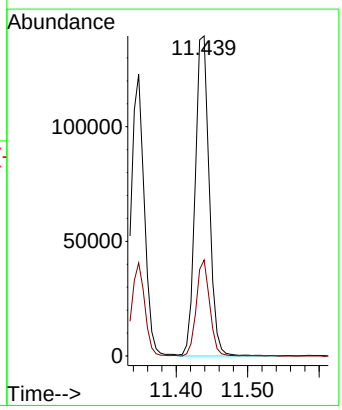
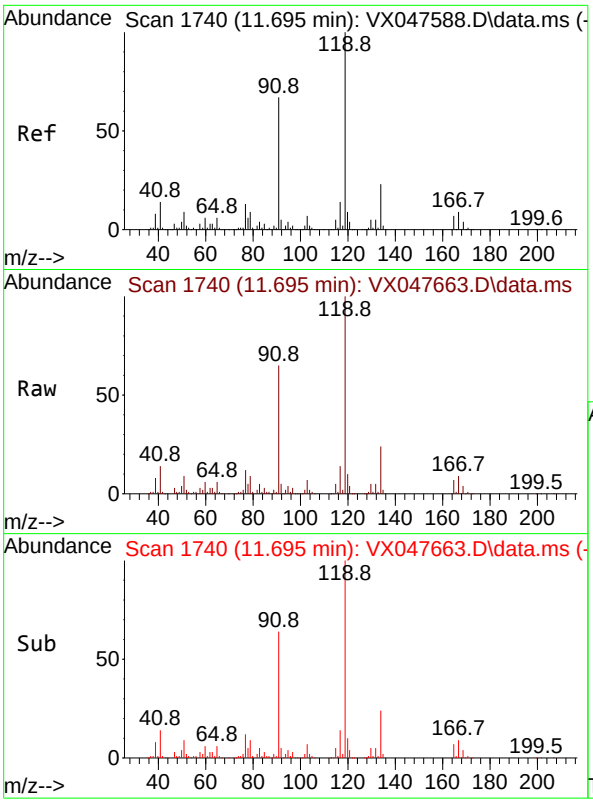


#82
4-Chlorotoluene
Concen: 19.954 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 91 Resp: 189446

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6

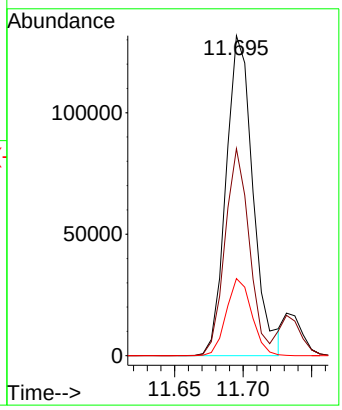




#83
tert-Butylbenzene
Concen: 19.298 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:119 Resp: 18020

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.7	11.0	33.0



Instrument :
MSVOA_X
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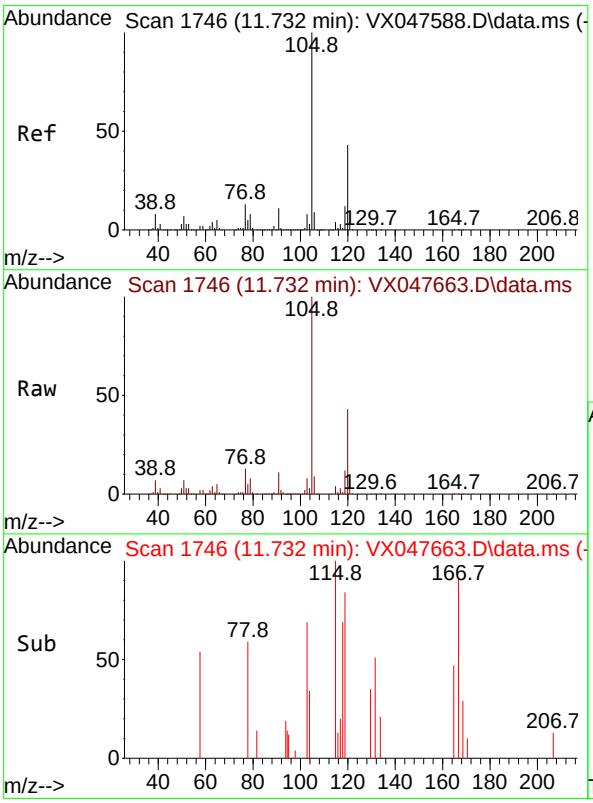
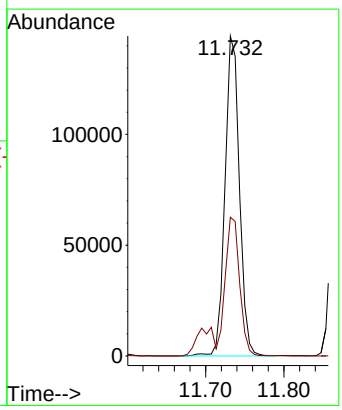
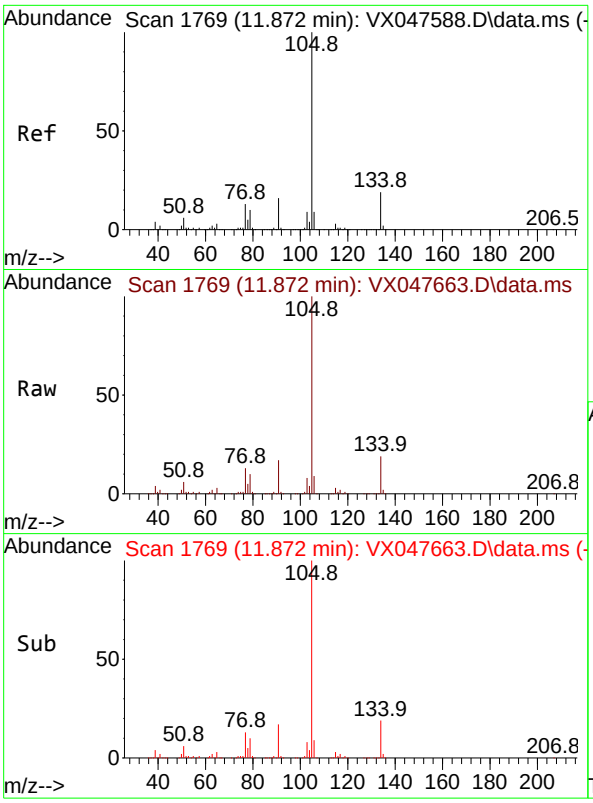


#84
1,2,4-Trimethylbenzene
Concen: 19.979 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:105 Resp: 184775

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1

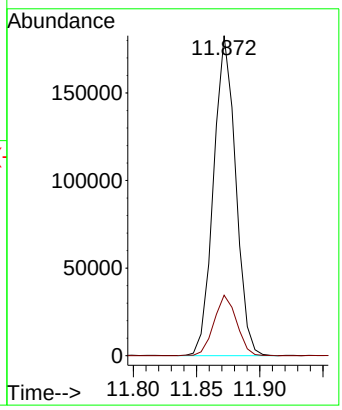




#85
sec-Butylbenzene
Concen: 20.014 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:105 Resp: 22199

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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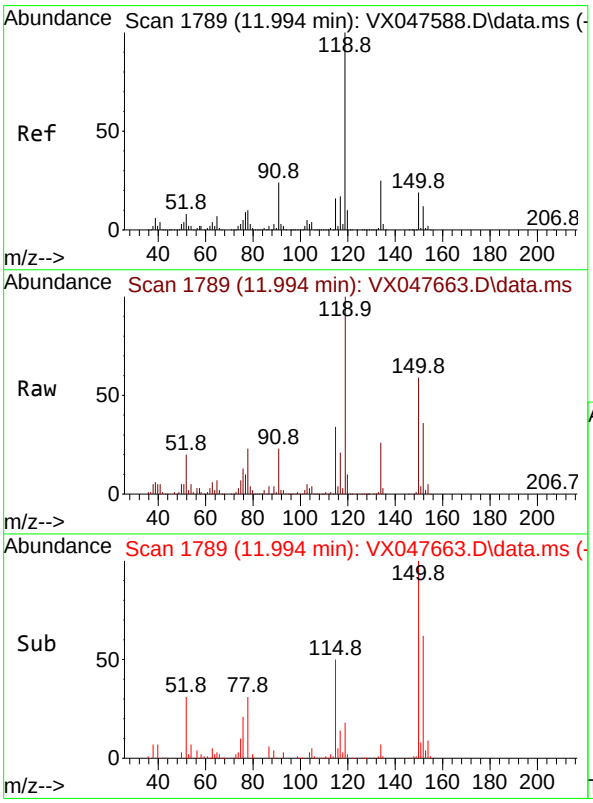
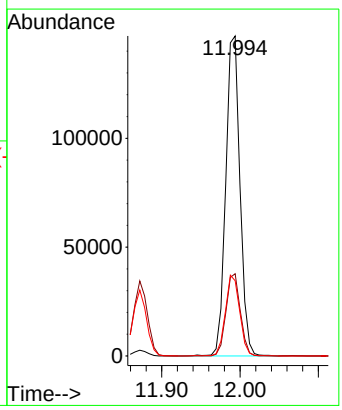
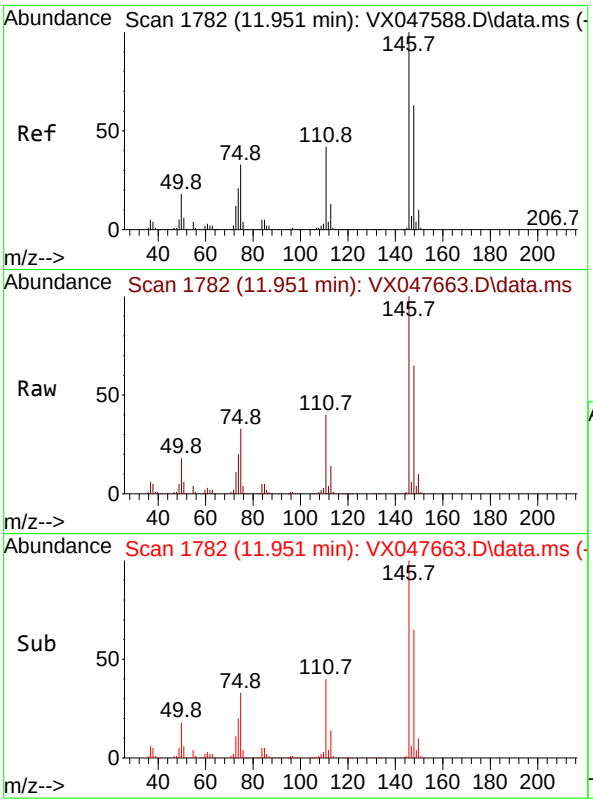


#86
p-Isopropyltoluene
Concen: 19.796 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:119 Resp: 185890

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.3	12.6	37.6

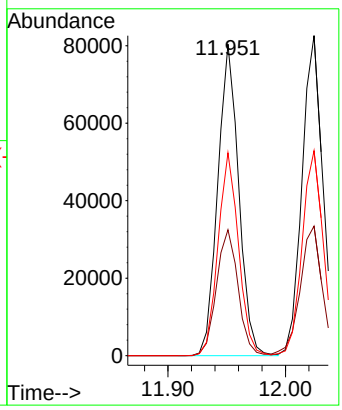




#87
1,3-Dichlorobenzene
Concen: 19.672 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:146 Resp: 9992

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.5	64.5
148	63.7	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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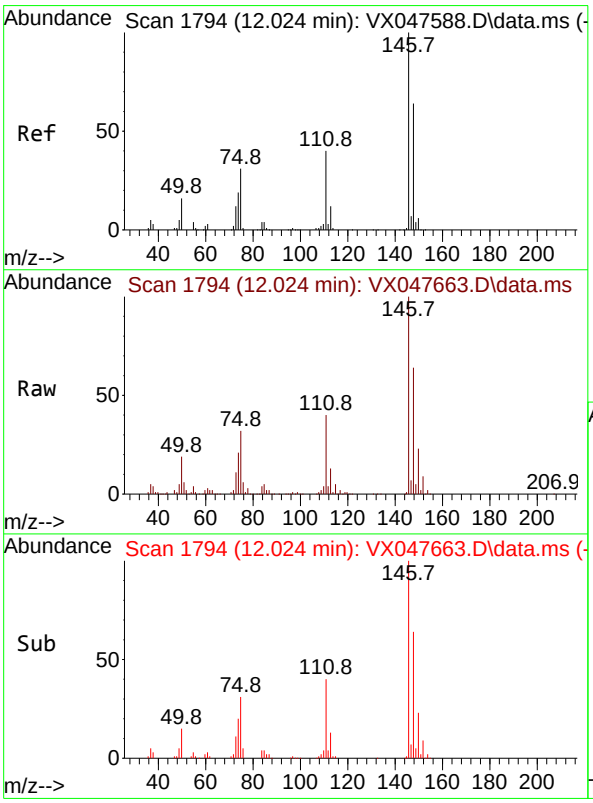
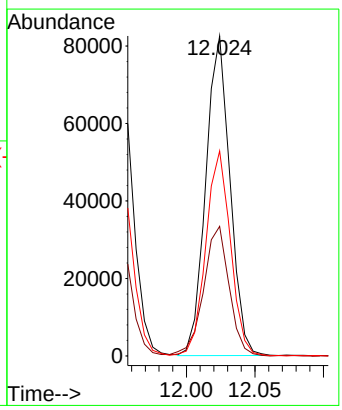
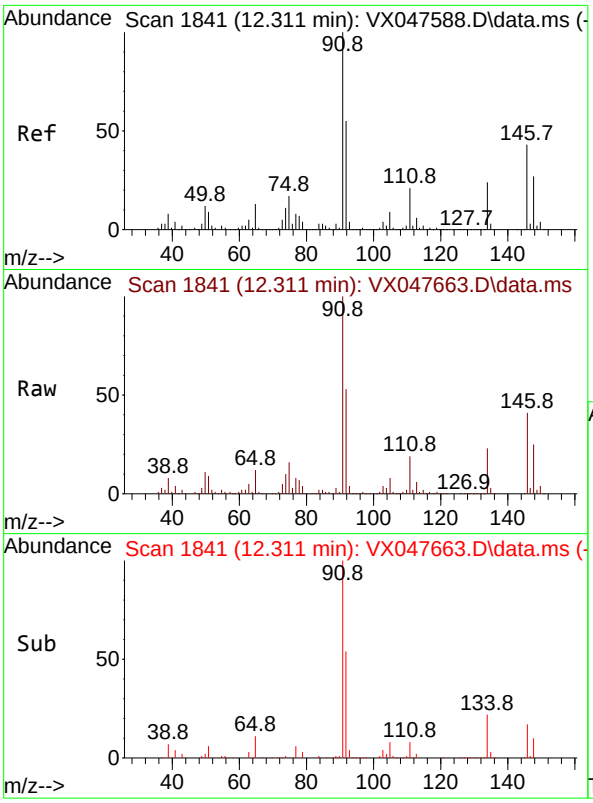


#88
1,4-Dichlorobenzene
Concen: 19.453 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:146 Resp: 101411

Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.8	62.4
148	65.3	31.7	95.1

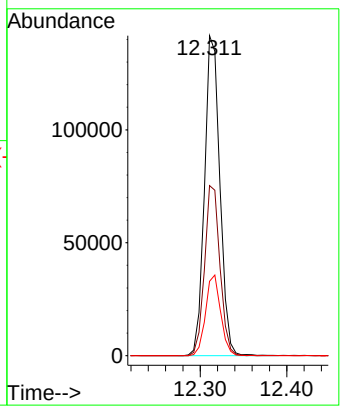




#89
n-Butylbenzene
Concen: 20.101 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 91 Resp: 17465

Ion	Ratio	Lower	Upper
91	100		
92	53.2	27.6	82.7
134	24.7	12.6	37.8



Instrument :
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ClientSampleId :
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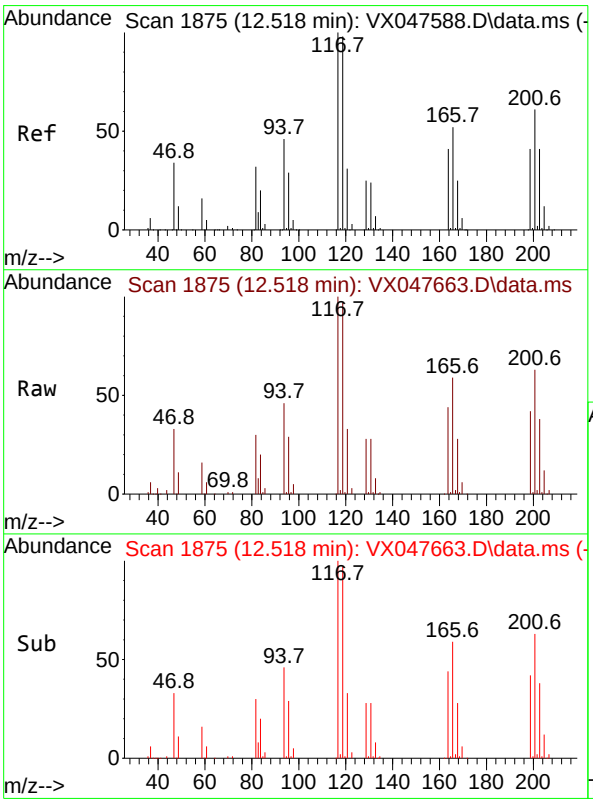
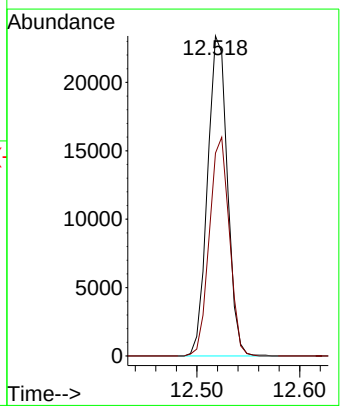
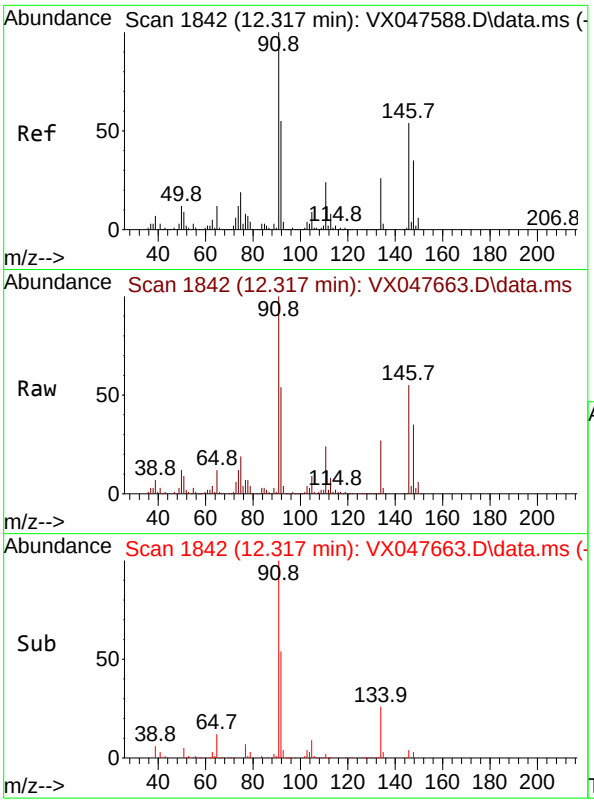


#90
Hexachloroethane
Concen: 19.010 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:117 Resp: 31341

Ion	Ratio	Lower	Upper
117	100		
201	68.6	34.2	102.5

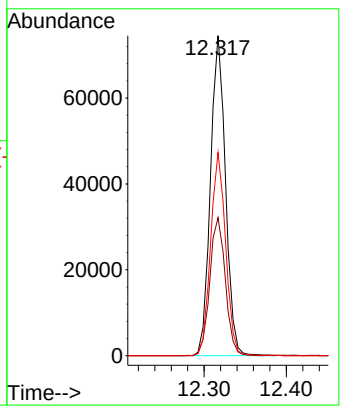




#91
1,2-Dichlorobenzene
Concen: 19.589 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:146 Resp: 9479

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.2	66.6
148	63.3	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

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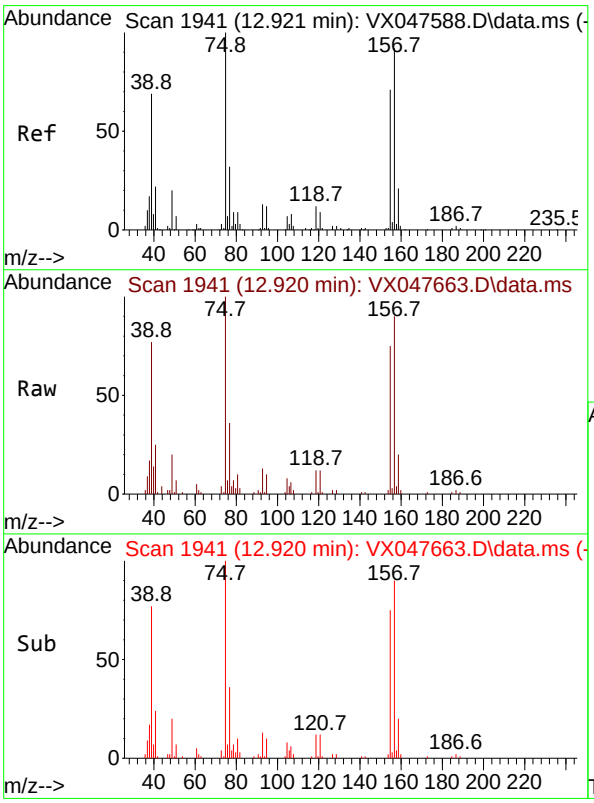
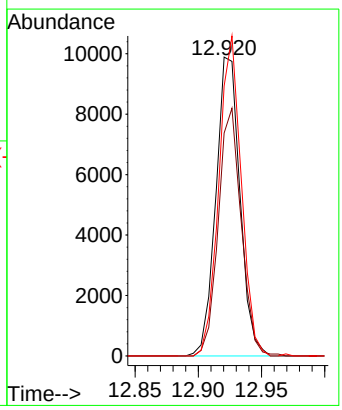
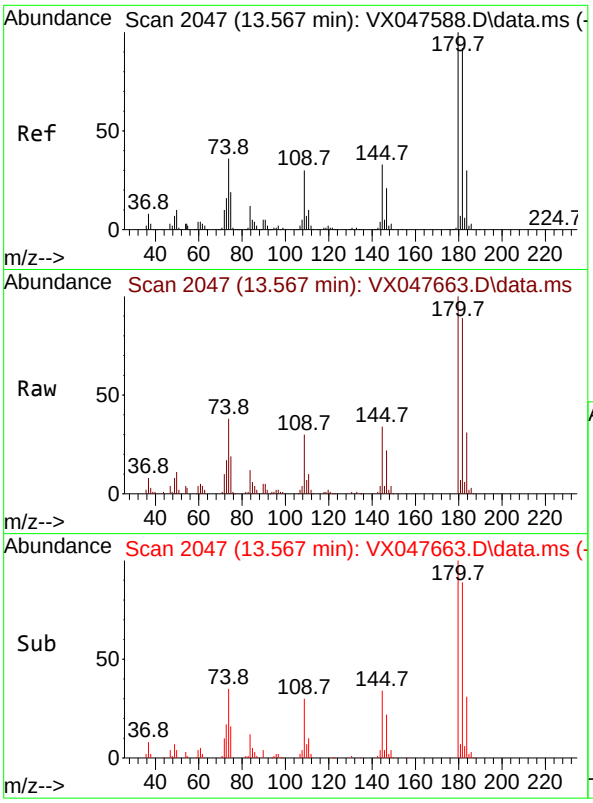


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.231 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 13079

Ion	Ratio	Lower	Upper
75	100		
155	78.9	37.7	113.1
157	99.3	49.8	149.4

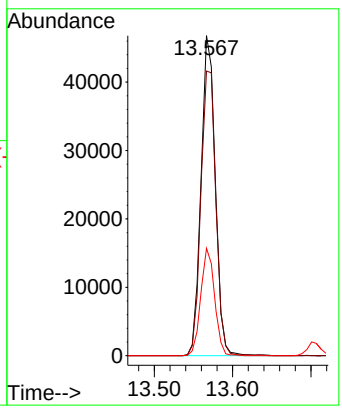




#93
1,2,4-Trichlorobenzene
Concen: 18.794 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:180 Resp: 5910

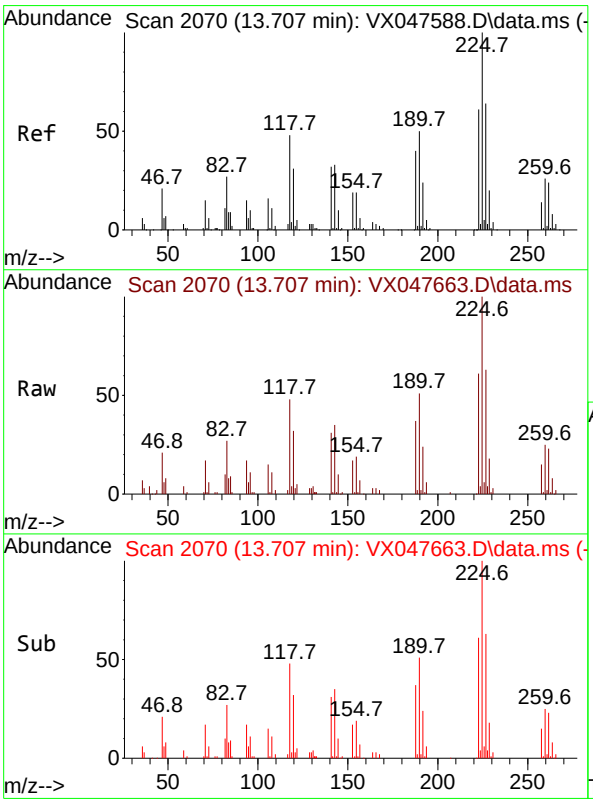
Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.6	139.8
145	32.6	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Manual Integrations APPROVED

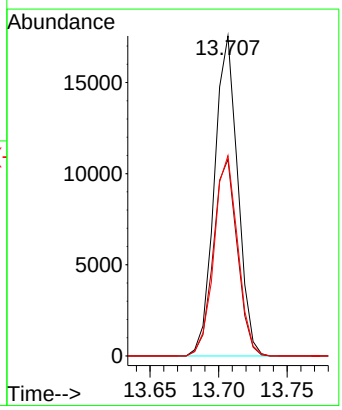
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025

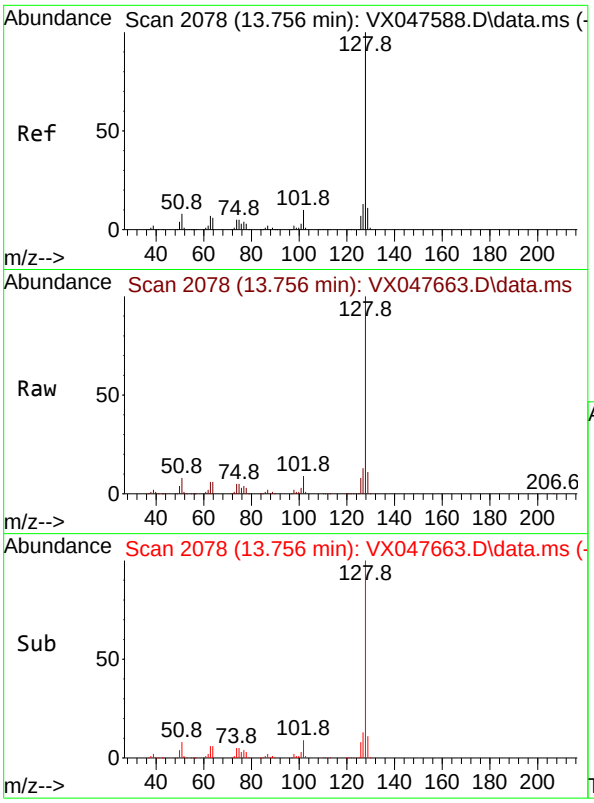


#94
Hexachlorobutadiene
Concen: 19.445 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:225 Resp: 20772

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.7	95.1
227	63.5	32.0	96.0

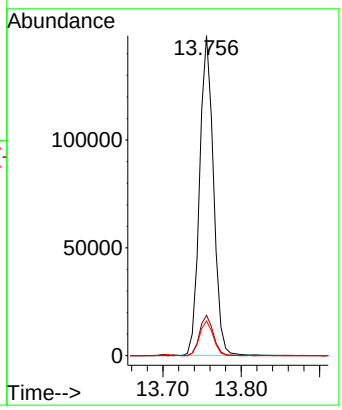




#95
Naphthalene
Concen: 19.000 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:128 Resp: 18195

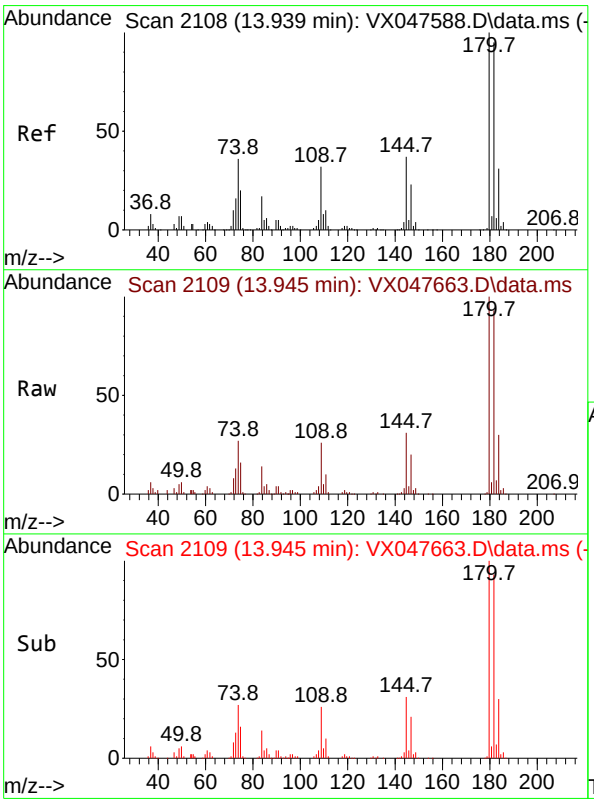
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Manual Integrations
APPROVED

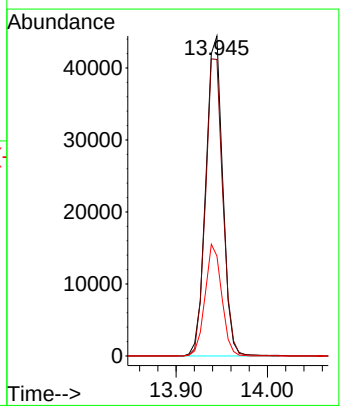
Reviewed By :Semsettin Yesilyurt 09/22/2025
Supervised By :Mahesh Dadoda 09/22/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.434 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:180 Resp: 56854

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.6	142.8
145	34.3	17.9	53.7



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0922WBS01	SDG No.:	Q3097
Lab Sample ID:	VX0922WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047692.D	1	09/22/25 10:54	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	25.9		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	23.4		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	23.8		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	25.0		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	22.6		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	22.5		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	22.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	22.4		0.23	0.75	1.00	ug/L
67-64-1	Acetone	90.1		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	23.3		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.8		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	19.8		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	21.8		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	22.6		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	22.0		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	22.0		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	95.1		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.8		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	22.0		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	22.6		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	22.1		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.9		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	21.1		0.16	0.50	1.00	ug/L
71-43-2	Benzene	21.5		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	21.7		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.4		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	21.0		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	2.50	5.00	ug/L
108-88-3	Toluene	21.2		0.14	0.50	1.00	ug/L

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0922WBS01	SDG No.:	Q3097
Lab Sample ID:	VX0922WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047692.D	1	09/22/25 10:54	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.6		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	96.6		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	21.5		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.4		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	21.3		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	21.1		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.8		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	42.3		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	21.0		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.7		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	20.7		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.9		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.8		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.3		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.7		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.1		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	55.0		80 - 119		110%	SPK: 50
2037-26-5	Toluene-d8	54.9		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.8		85 - 114		114%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	172000	5.531				
540-36-3	1,4-Difluorobenzene	312000	6.745				
3114-55-4	Chlorobenzene-d5	283000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	142000	12				

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Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
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GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047692.D	1	09/22/25 10:54	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047692.D
Acq On : 22 Sep 2025 10:54
Operator : JC/MD
Sample : VX0922WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	172067	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	311516	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	283214	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	141526	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	150951	55.114	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.220%			
35) Dibromofluoromethane	5.367	113	114849	54.973	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.940%			
50) Toluene-d8	8.628	98	397036	54.922	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 109.840%			
62) 4-Bromofluorobenzene	11.061	95	155877	56.816	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	46231	25.947	ug/l	98
3) Chloromethane	1.301	50	54860	23.427	ug/l	98
4) Vinyl Chloride	1.380	62	54636	23.834	ug/l	97
5) Bromomethane	1.618	94	36401	25.042	ug/l	99
6) Chloroethane	1.697	64	34677	22.634	ug/l	99
7) Trichlorofluoromethane	1.898	101	76528	22.484	ug/l	100
8) Diethyl Ether	2.136	74	29894	21.471	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	44783	22.502	ug/l	99
10) Methyl Iodide	2.453	142	63342	20.407	ug/l	99
11) Tert butyl alcohol	2.934	59	25742	84.390	ug/l	99
12) 1,1-Dichloroethene	2.325	96	45735	22.372	ug/l	97
13) Acrolein	2.233	56	30904	109.941	ug/l	98
14) Allyl chloride	2.666	41	88046	20.871	ug/l	99
15) Acrylonitrile	3.056	53	118406	104.795	ug/l	99
16) Acetone	2.374	43	107259	90.068	ug/l	99
17) Carbon Disulfide	2.514	76	130489	23.316	ug/l	98
18) Methyl Acetate	2.697	43	52517	19.816	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	155581	20.848	ug/l	99
20) Methylene Chloride	2.788	84	54900	21.779	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	49816	22.634	ug/l	95
22) Diisopropyl ether	3.745	45	177530	21.714	ug/l #	84
23) Vinyl Acetate	3.709	43	689485	105.372	ug/l	100
24) 1,1-Dichloroethane	3.599	63	95520	21.982	ug/l	97
25) 2-Butanone	4.538	43	141299	95.121	ug/l	100
26) 2,2-Dichloropropane	4.465	77	75850	20.998	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	59288	21.995	ug/l	97
28) Bromochloromethane	4.885	49	42966	22.649	ug/l	99
29) Tetrahydrofuran	4.983	42	88443	98.972	ug/l	98
30) Chloroform	5.074	83	97110	22.115	ug/l	98
31) Cyclohexane	5.452	56	79522	21.972	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	81455	21.869	ug/l	100
36) 1,1-Dichloropropene	5.678	75	64296	21.061	ug/l	99
37) Ethyl Acetate	4.690	43	62468	19.111	ug/l	99
38) Carbon Tetrachloride	5.666	117	68845	20.756	ug/l	100
39) Methylcyclohexane	7.360	83	72971	21.057	ug/l	95
40) Benzene	6.019	78	199198	21.483	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047692.D
Acq On : 22 Sep 2025 10:54
Operator : JC/MD
Sample : VX0922WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	33257	19.708	ug/l		97
42) 1,2-Dichloroethane	6.068	62	71955	20.396	ug/l		98
43) Isopropyl Acetate	6.318	43	105998	19.773	ug/l		99
44) Trichloroethene	7.104	130	48754	21.749	ug/l		96
45) 1,2-Dichloropropane	7.409	63	50730	21.367	ug/l		99
46) Dibromomethane	7.562	93	36077	20.881	ug/l		98
47) Bromodichloromethane	7.805	83	74860	20.997	ug/l		98
48) Methyl methacrylate	7.677	41	51141	19.152	ug/l		99
49) 1,4-Dioxane	7.641	88	10494	388.865	ug/l	#	91
51) 4-Methyl-2-Pentanone	8.555	43	301025	101.277	ug/l		99
52) Toluene	8.702	92	120963	21.175	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	74830	20.577	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	82076	21.115	ug/l		100
55) 1,1,2-Trichloroethane	9.134	97	46109	20.933	ug/l		95
56) Ethyl methacrylate	9.098	69	70536	20.390	ug/l		98
57) 1,3-Dichloropropane	9.287	76	81692	21.589	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	144109	94.402	ug/l		100
59) 2-Hexanone	9.415	43	206129	96.561	ug/l		100
60) Dibromochloromethane	9.506	129	54546	21.491	ug/l		98
61) 1,2-Dibromoethane	9.592	107	48109	21.443	ug/l		100
64) Tetrachloroethene	9.256	164	39380	21.330	ug/l		94
65) Chlorobenzene	10.061	112	135663	21.085	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	45992	20.715	ug/l		99
67) Ethyl Benzene	10.177	91	231008	20.809	ug/l		100
68) m/p-Xylenes	10.287	106	174681	42.274	ug/l		98
69) o-Xylene	10.622	106	84047	21.029	ug/l		98
70) Styrene	10.640	104	145060	20.714	ug/l		99
71) Bromoform	10.781	173	34350	20.720	ug/l	#	100
73) Isopropylbenzene	10.945	105	214088	19.897	ug/l		99
74) N-amyl acetate	10.823	43	91296	18.607	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	63541	19.519	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	49310m	17.208	ug/l		
77) Bromobenzene	11.183	156	51918	19.591	ug/l		97
78) n-propylbenzene	11.287	91	255688	20.102	ug/l		100
79) 2-Chlorotoluene	11.348	91	156071	20.034	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	175941	19.903	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.000	75	19536	17.386	ug/l		97
82) 4-Chlorotoluene	11.433	91	183613	19.956	ug/l		99
83) tert-Butylbenzene	11.695	119	177186	19.580	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	179182	19.993	ug/l		99
85) sec-Butylbenzene	11.872	105	215512	20.050	ug/l		100
86) p-Isopropyltoluene	11.988	119	179574	19.733	ug/l		100
87) 1,3-Dichlorobenzene	11.951	146	98737	20.059	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	100204	19.835	ug/l		99
89) n-Butylbenzene	12.311	91	165021	19.598	ug/l		99
90) Hexachloroethane	12.518	117	31037	19.426	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	93377	19.912	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	11708	17.764	ug/l		100
93) 1,2,4-Trichlorobenzene	13.567	180	55687	18.272	ug/l		96
94) Hexachlorobutadiene	13.707	225	19591	18.925	ug/l		99
95) Naphthalene	13.756	128	164565	17.732	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	53045	18.711	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047692.D
Acq On : 22 Sep 2025 10:54
Operator : JC/MD
Sample : VX0922WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047692.D
Acq On : 22 Sep 2025 10:54
Operator : JC/MD
Sample : VX0922WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
VX0922WBS01

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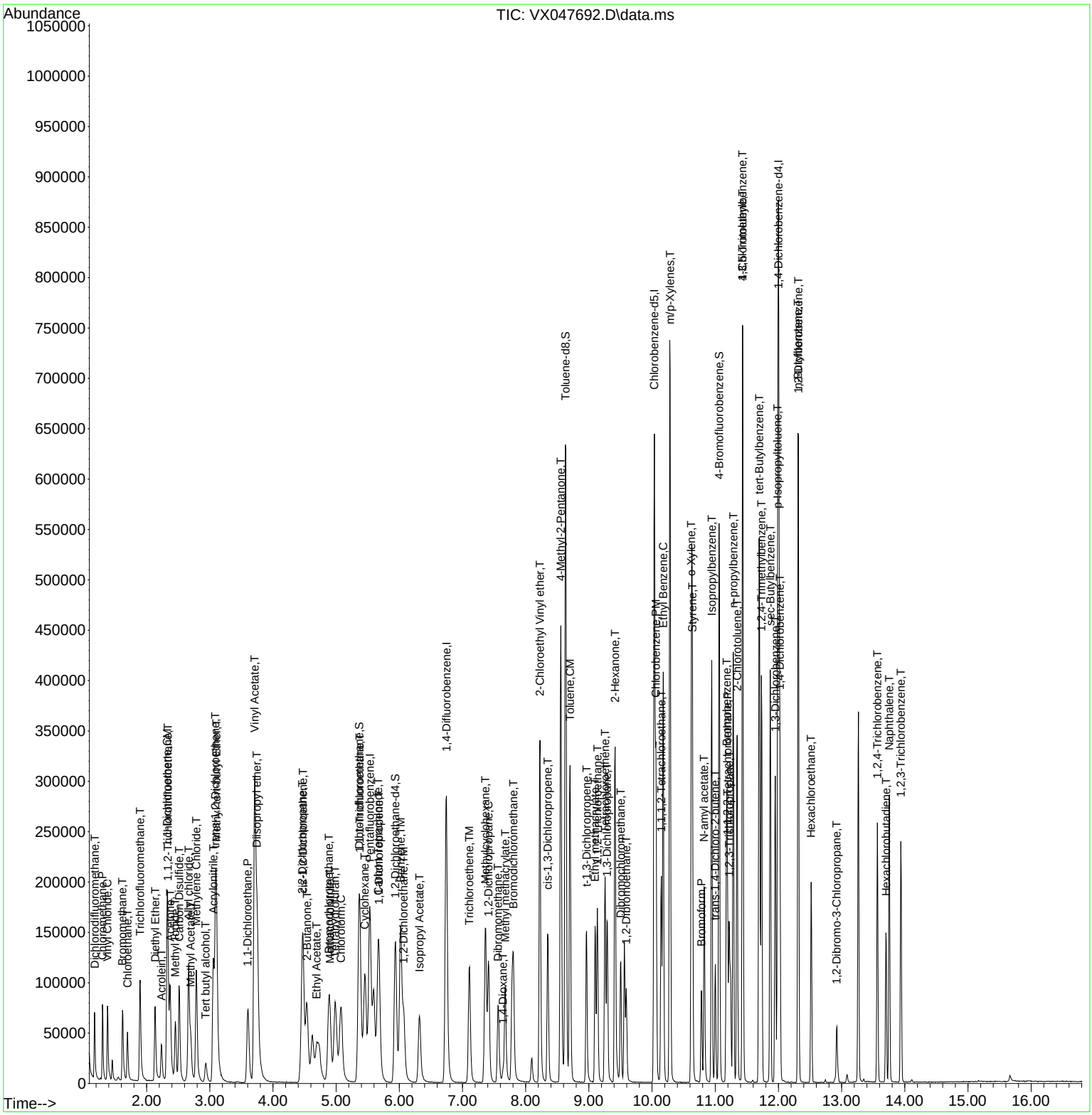
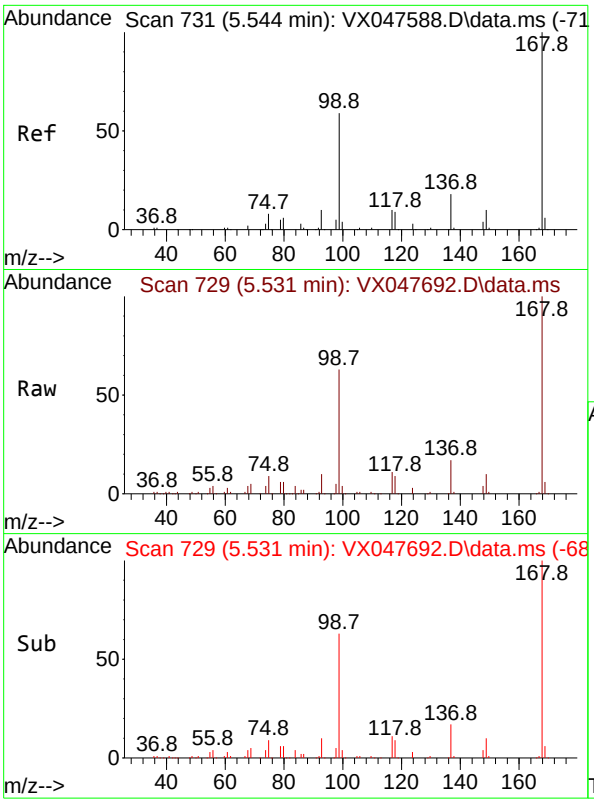
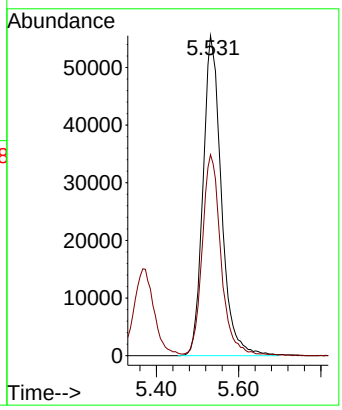




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:168 Resp: 17206

Ion	Ratio	Lower	Upper
168	100		
99	62.6	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Manual Integrations APPROVED

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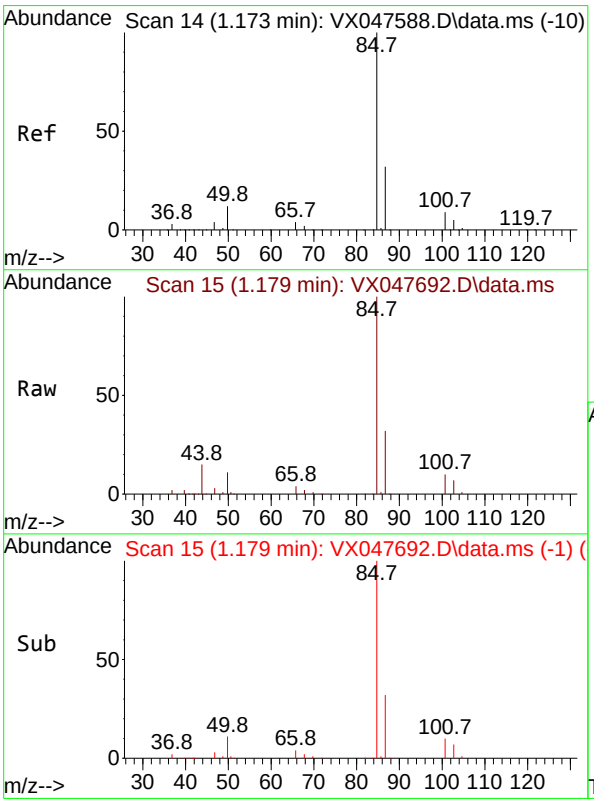
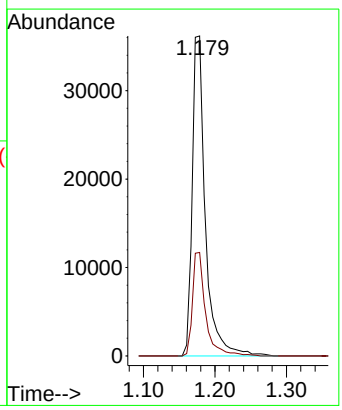
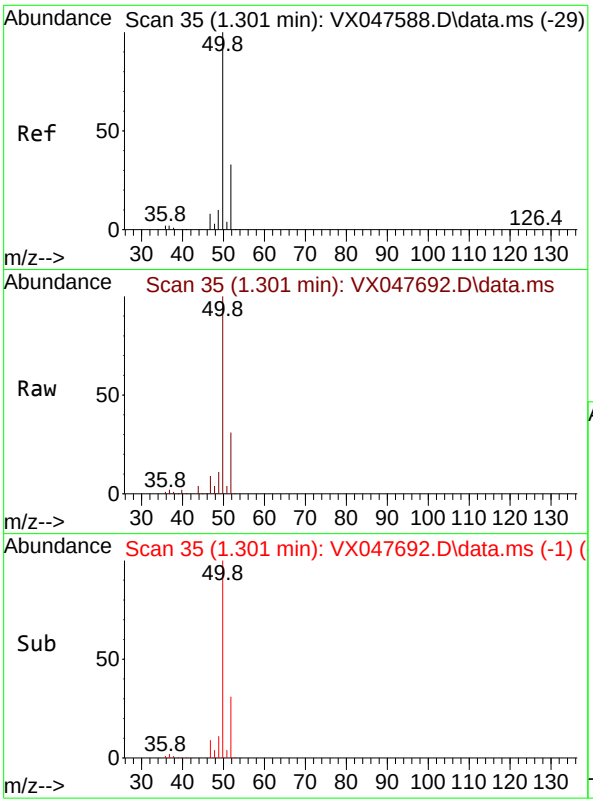


#2
Dichlorodifluoromethane
Concen: 25.947 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 85 Resp: 46231

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.8	47.3

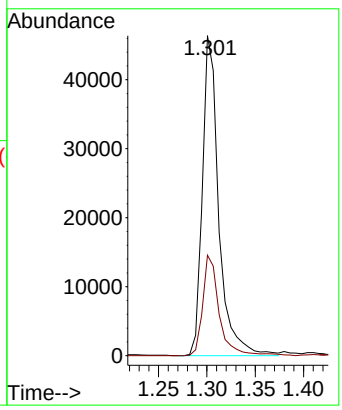




#3
Chloromethane
Concen: 23.427 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 50 Resp: 5486

Ion	Ratio	Lower	Upper
50	100		
52	31.4	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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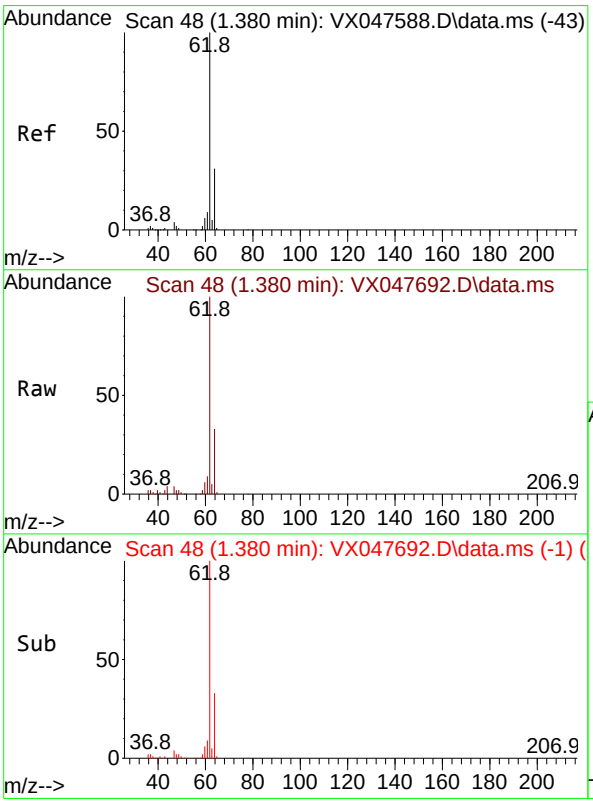
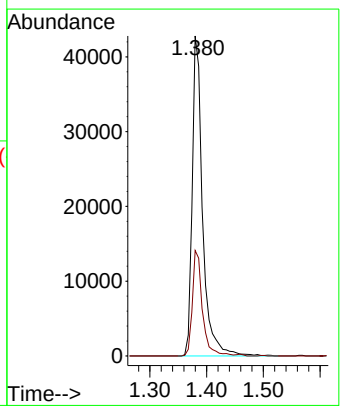
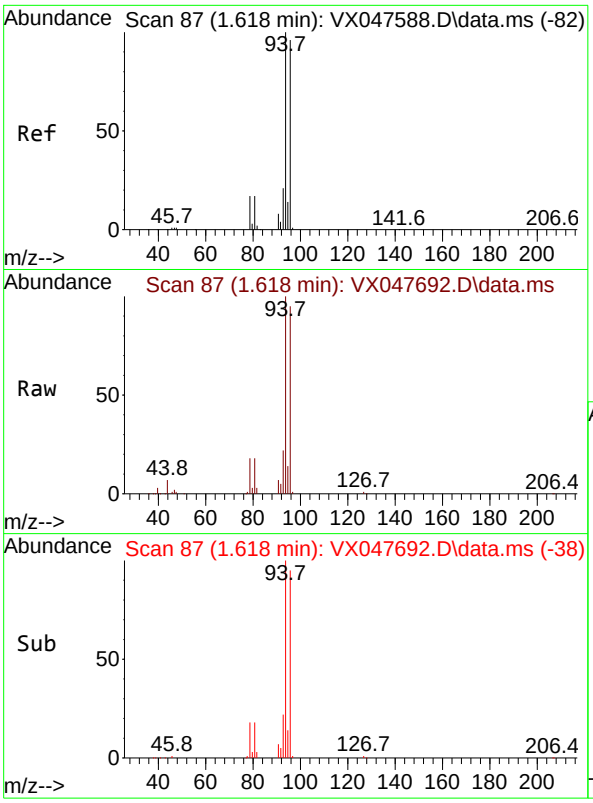


#4
Vinyl Chloride
Concen: 23.834 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 62 Resp: 54636

Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.9	37.3

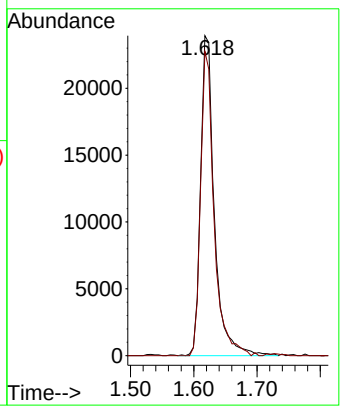




#5
Bromomethane
Concen: 25.042 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 94 Resp: 3640

Ion	Ratio	Lower	Upper
94	100		
96	95.1	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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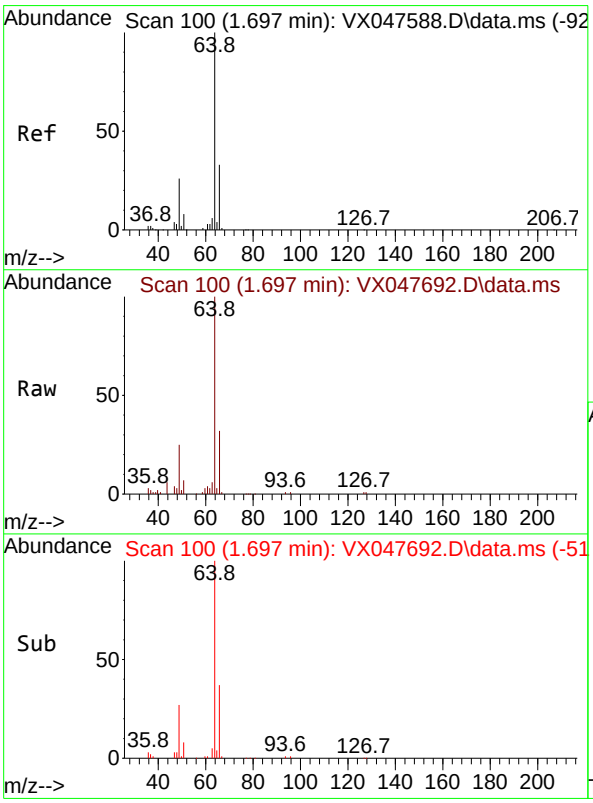
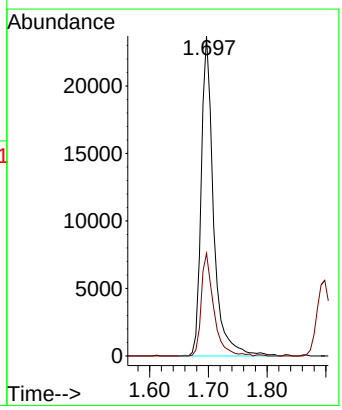
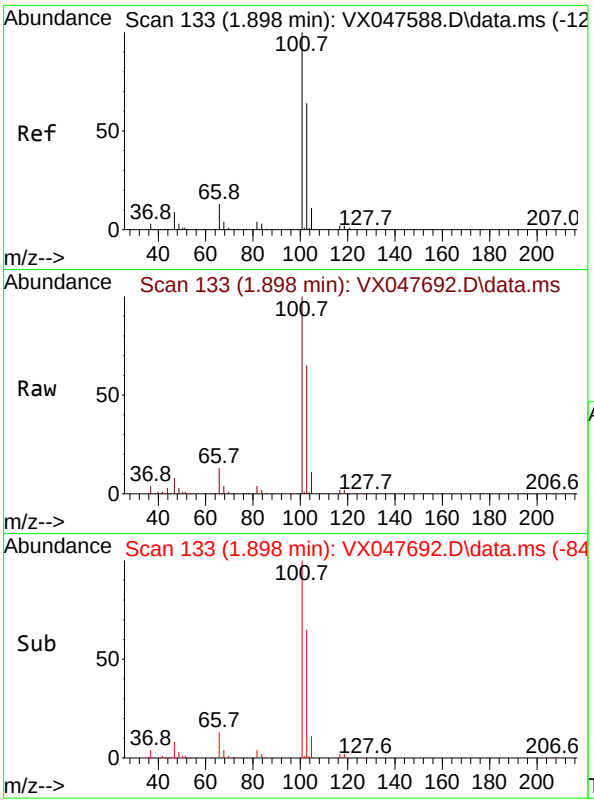


#6
Chloroethane
Concen: 22.634 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 64 Resp: 34677

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.1	39.1

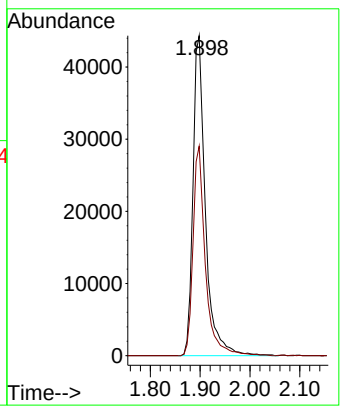




#7
Trichlorofluoromethane
Concen: 22.484 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:101 Resp: 7652

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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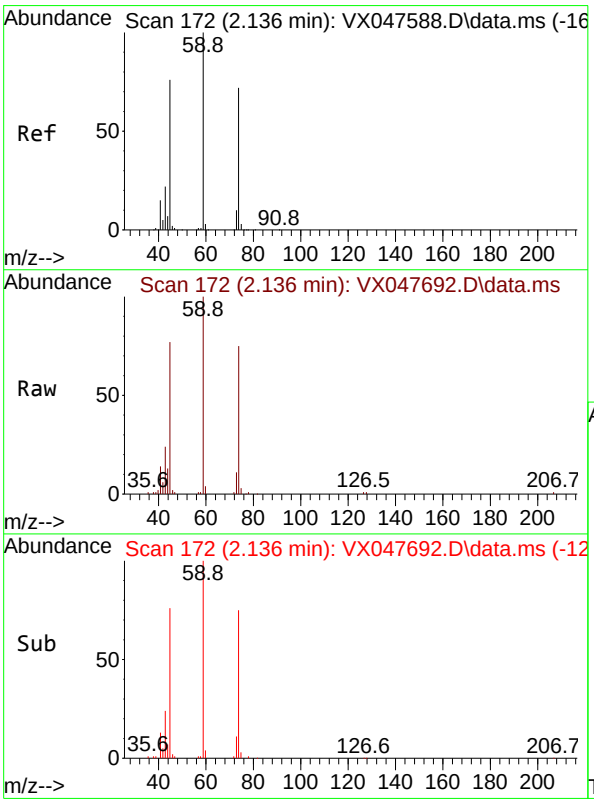
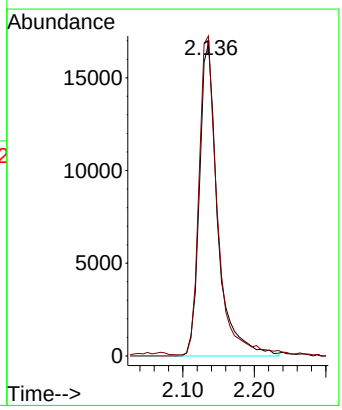
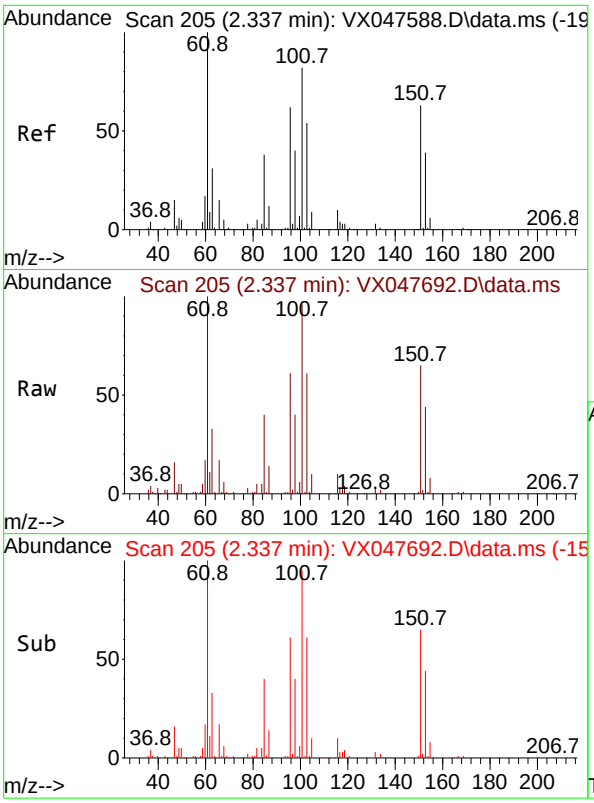


#8
Diethyl Ether
Concen: 21.471 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 74 Resp: 29894

Ion	Ratio	Lower	Upper
74	100		
45	101.8	52.3	156.8

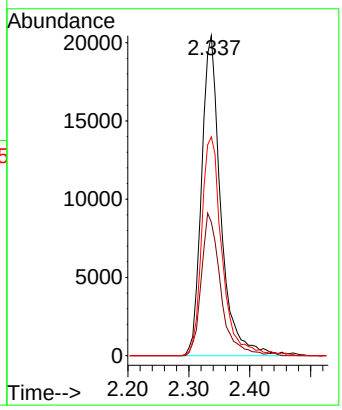




#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.502 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:101 Resp: 4478

Ion	Ratio	Lower	Upper
101	100		
85	44.8	35.5	53.3
151	72.8	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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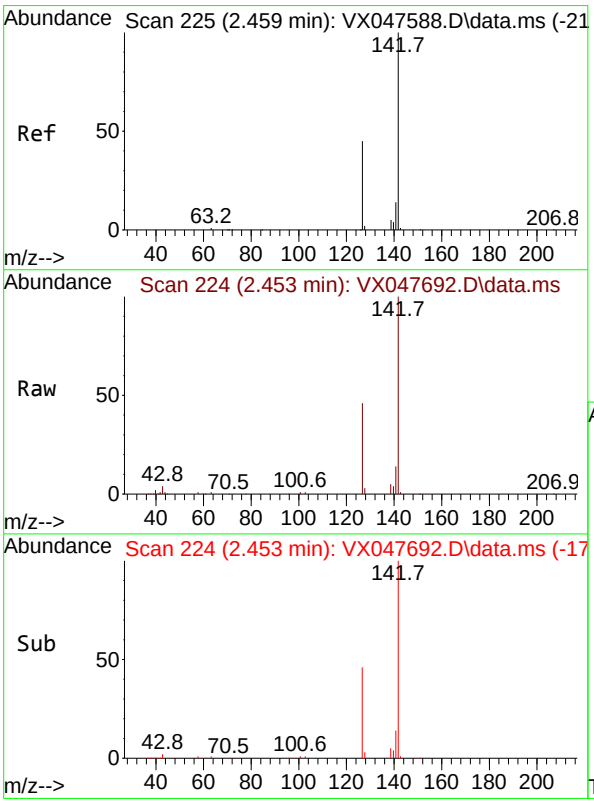
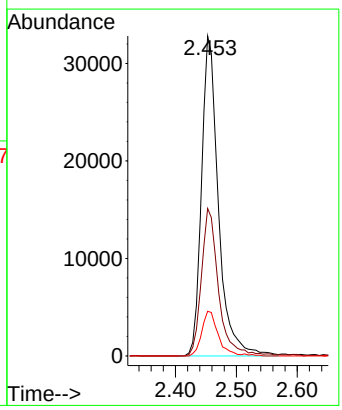
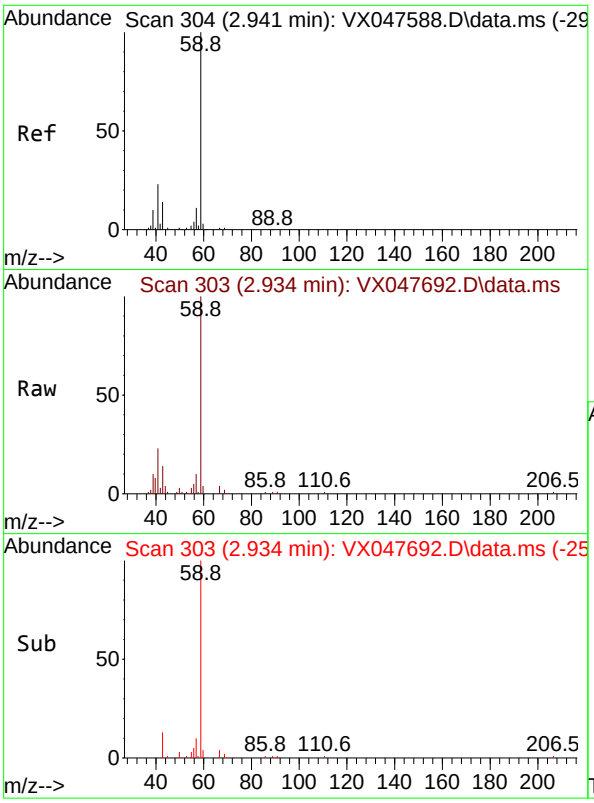


#10
Methyl Iodide
Concen: 20.407 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:142 Resp: 63342

Ion	Ratio	Lower	Upper
142	100		
127	46.7	37.2	55.8
141	13.4	11.4	17.0

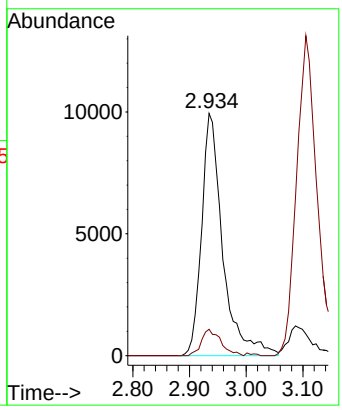




#11
Tert butyl alcohol
Concen: 84.390 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 59 Resp: 2574

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Manual Integrations
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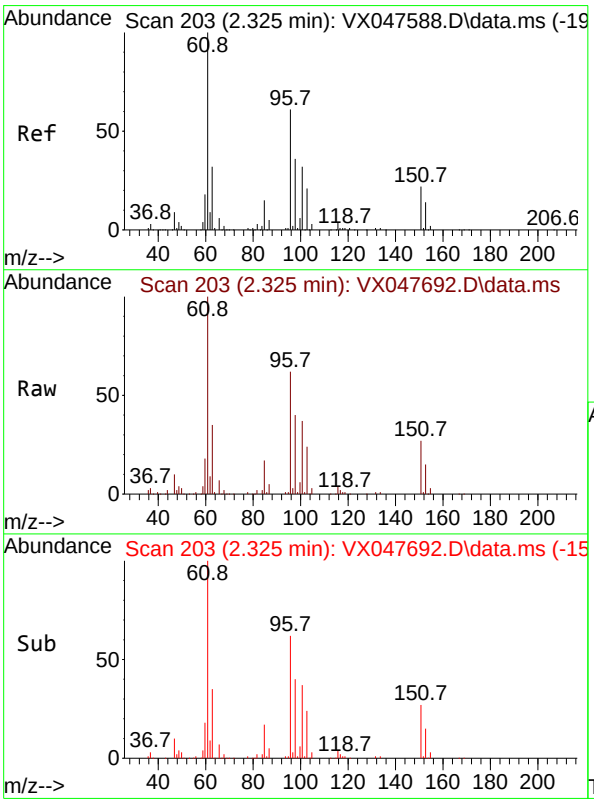
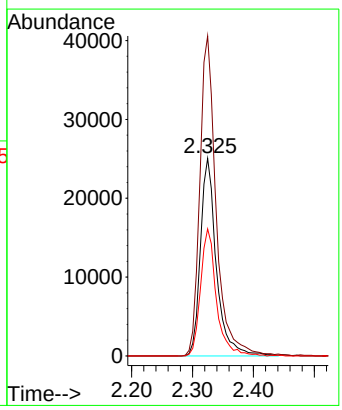
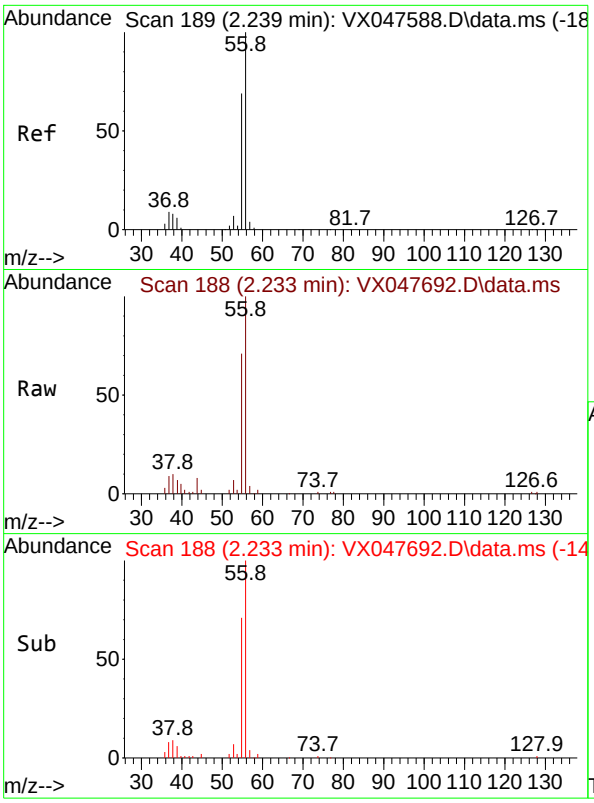


#12
1,1-Dichloroethene
Concen: 22.372 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 96 Resp: 45735

Ion	Ratio	Lower	Upper
96	100		
61	161.9	131.0	196.6
98	64.3	47.7	71.5

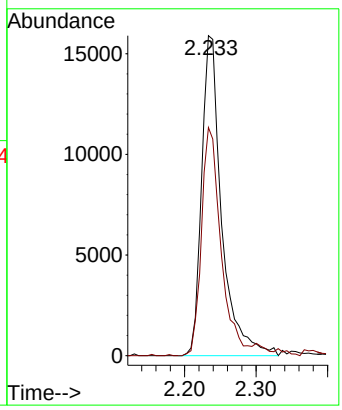




#13
Acrolein
Concen: 109.941 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 56 Resp: 3090

Ion	Ratio	Lower	Upper
56	100		
55	69.5	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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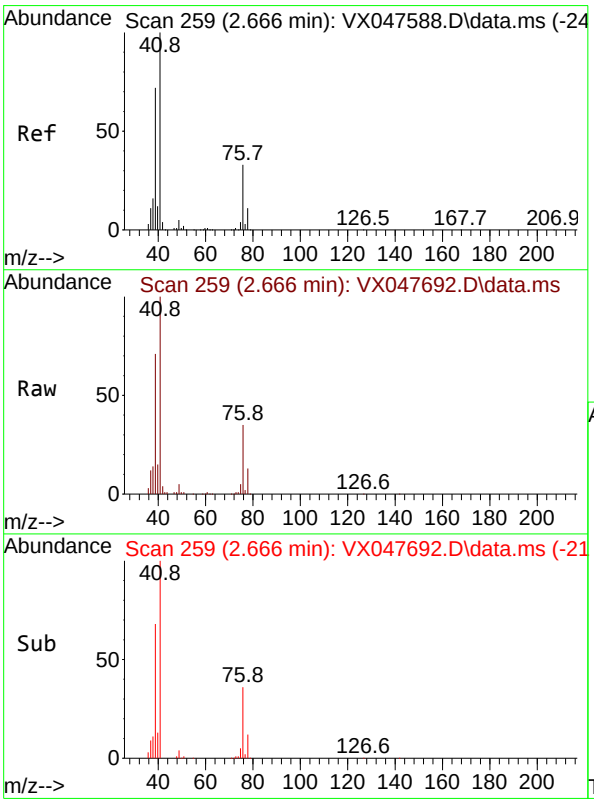
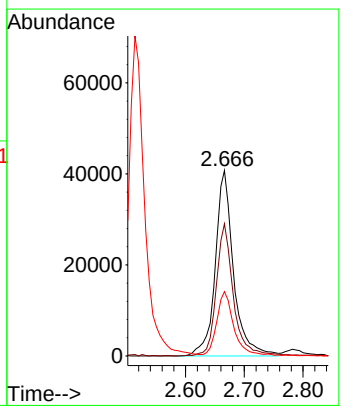
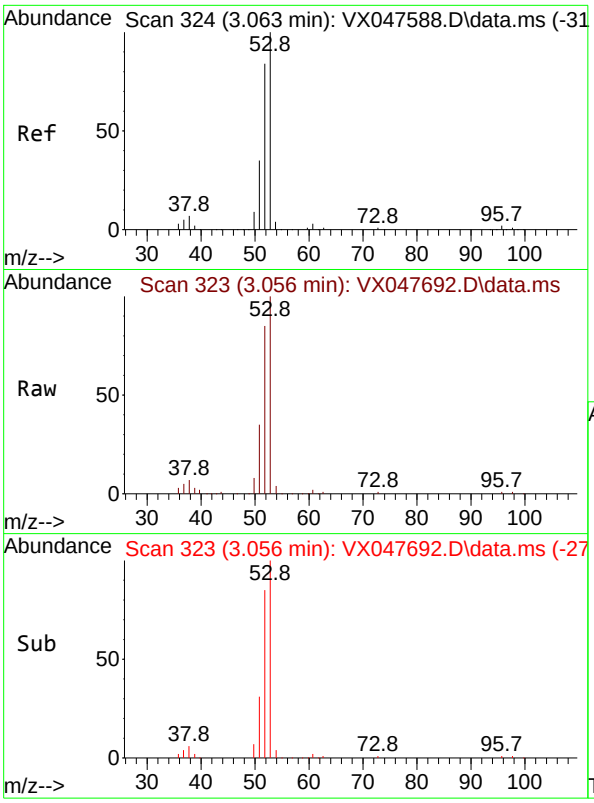


#14
Allyl chloride
Concen: 20.871 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 41 Resp: 88046

Ion	Ratio	Lower	Upper
41	100		
39	66.9	54.7	82.1
76	32.4	25.7	38.5

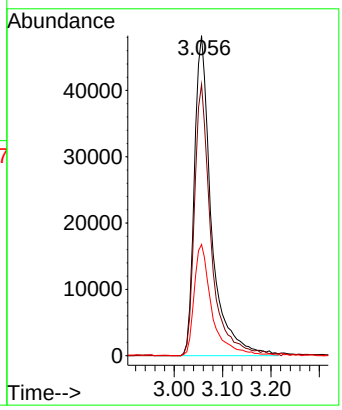




#15
Acrylonitrile
Concen: 104.795 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 53 Resp: 11840

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.2	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Manual Integrations
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Reviewed By :John Carlone 09/23/2025
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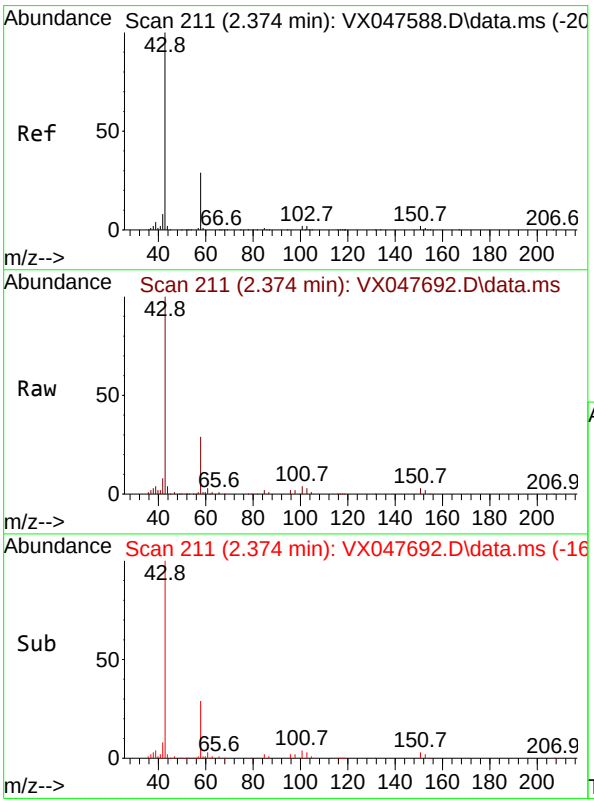
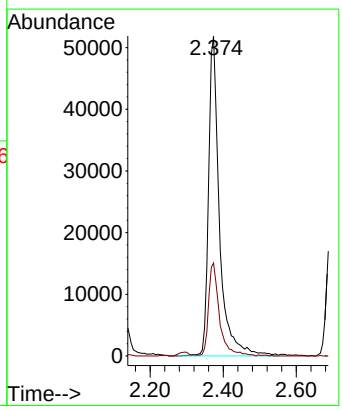
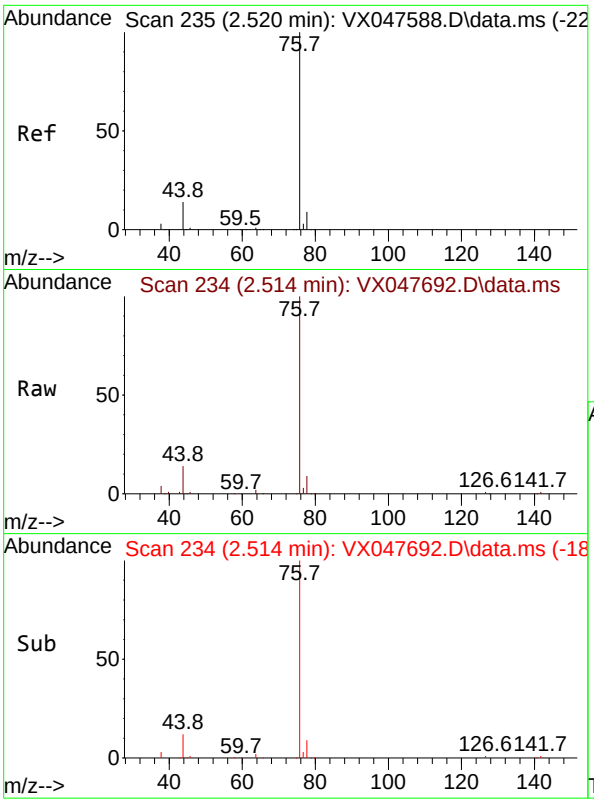


#16
Acetone
Concen: 90.068 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 107259

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.4	35.0





#17
Carbon Disulfide
Concen: 23.316 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 76 Resp: 13048

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.8	10.2

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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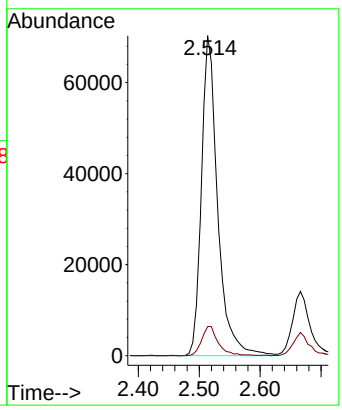
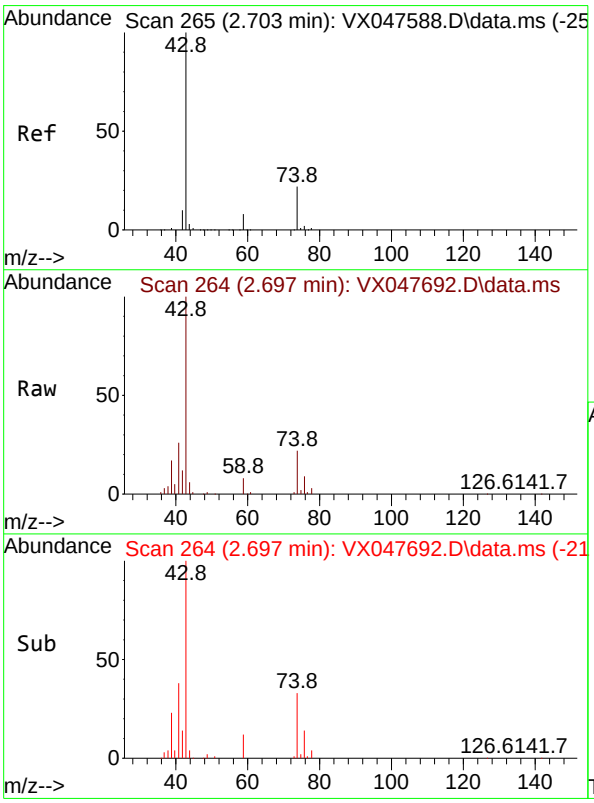
Supervised By :Mahesh Dadoda 09/24/2025

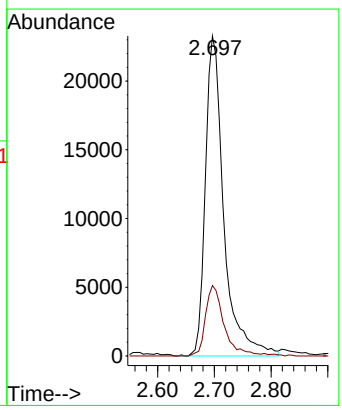


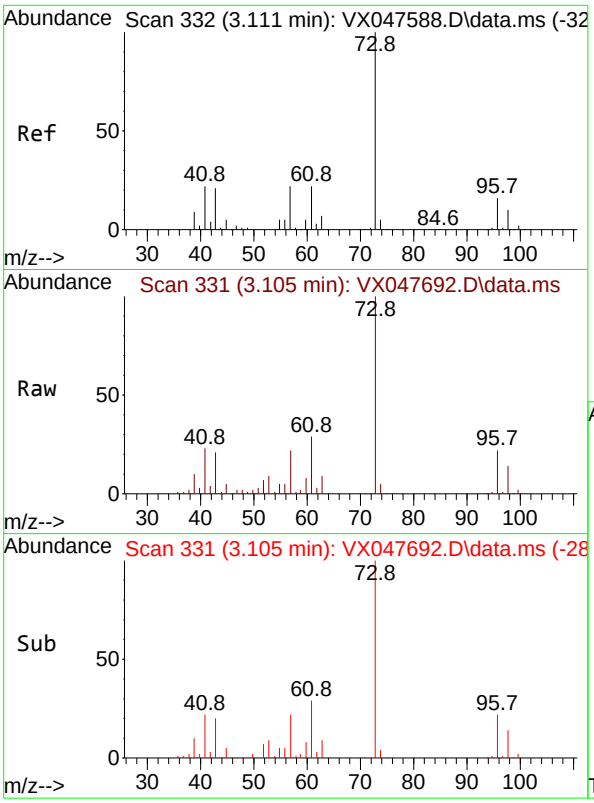


#18
Methyl Acetate
Concen: 19.816 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 52517

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.4	26.2

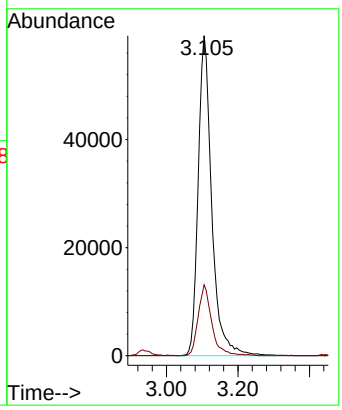




#19
Methyl tert-butyl Ether
Concen: 20.848 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 73 Resp: 15558

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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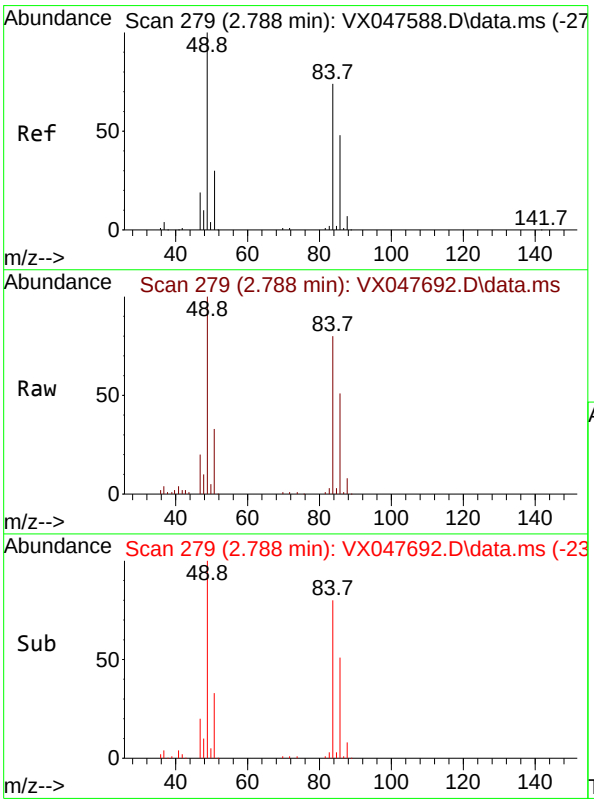
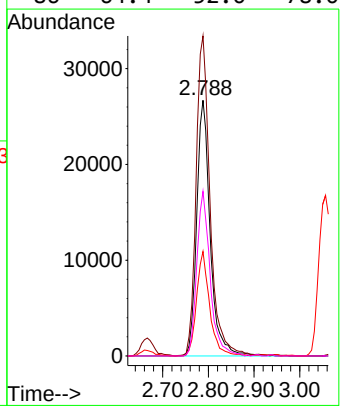
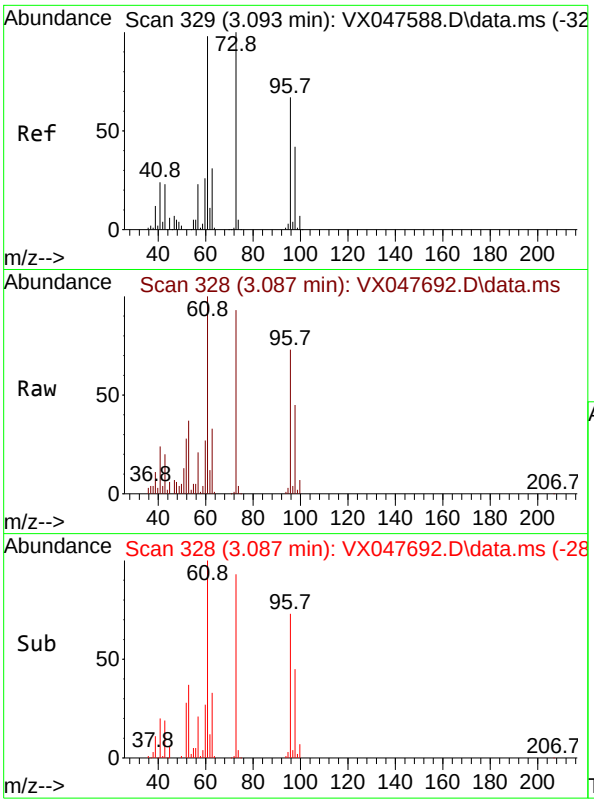


#20
Methylene Chloride
Concen: 21.779 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 84 Resp: 54900

Ion	Ratio	Lower	Upper
84	100		
49	124.9	108.6	162.8
51	40.9	32.6	48.8
86	64.4	52.0	78.0

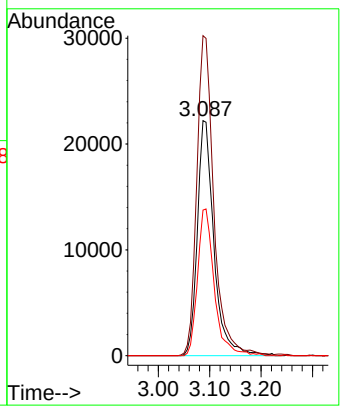




#21
trans-1,2-Dichloroethene
Concen: 22.634 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 96 Resp: 4981

Ion	Ratio	Lower	Upper
96	100		
61	136.2	116.2	174.2
98	61.9	49.3	73.9



Instrument :
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ClientSampleId :
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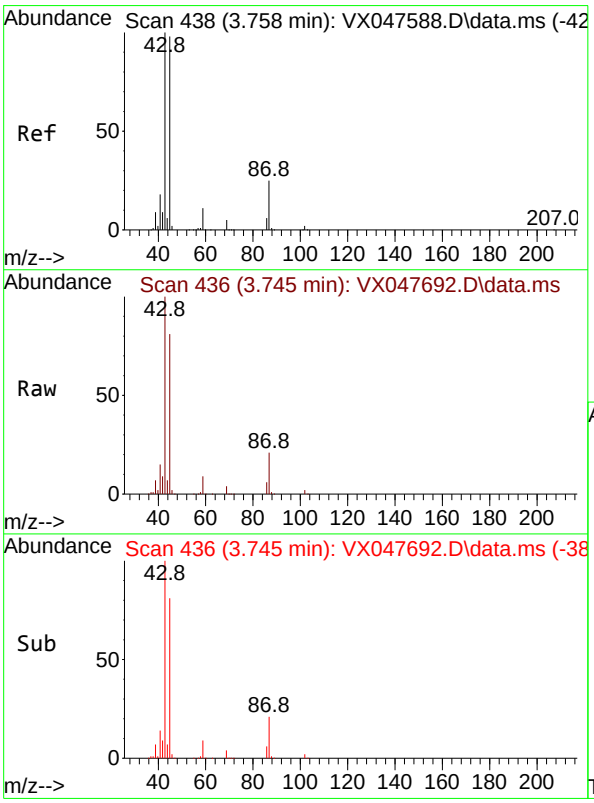
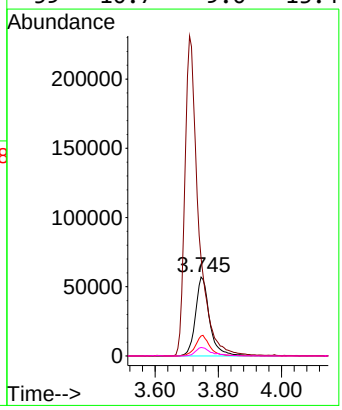
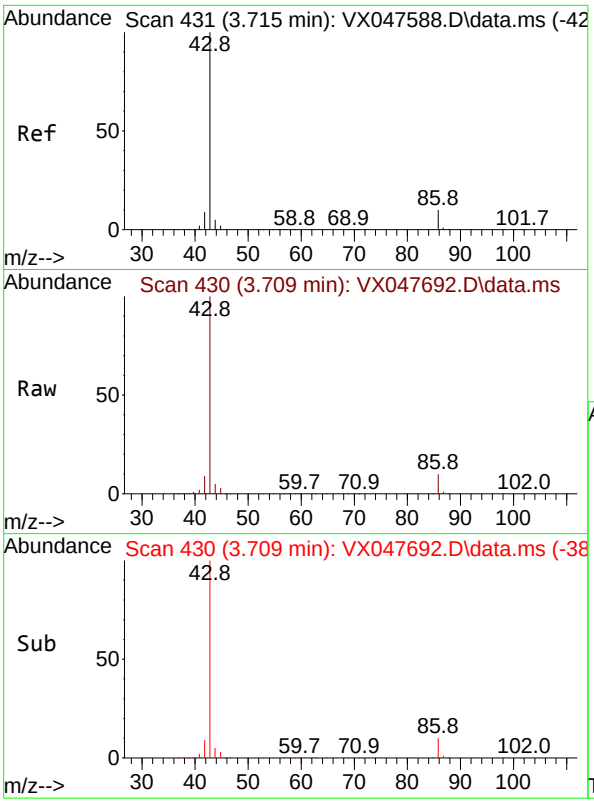


#22
Diisopropyl ether
Concen: 21.714 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 45 Resp: 177530

Ion	Ratio	Lower	Upper
45	100		
43	123.2	81.0	121.4#
87	25.4	20.3	30.5
59	10.7	9.0	13.4

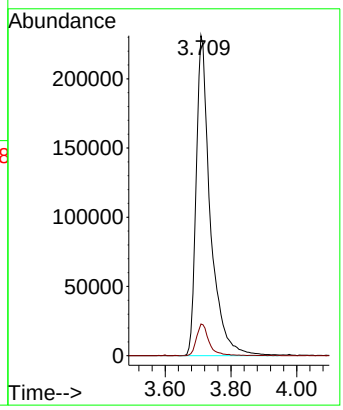




#23
Vinyl Acetate
Concen: 105.372 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 68948

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8



Instrument :
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ClientSampleId :
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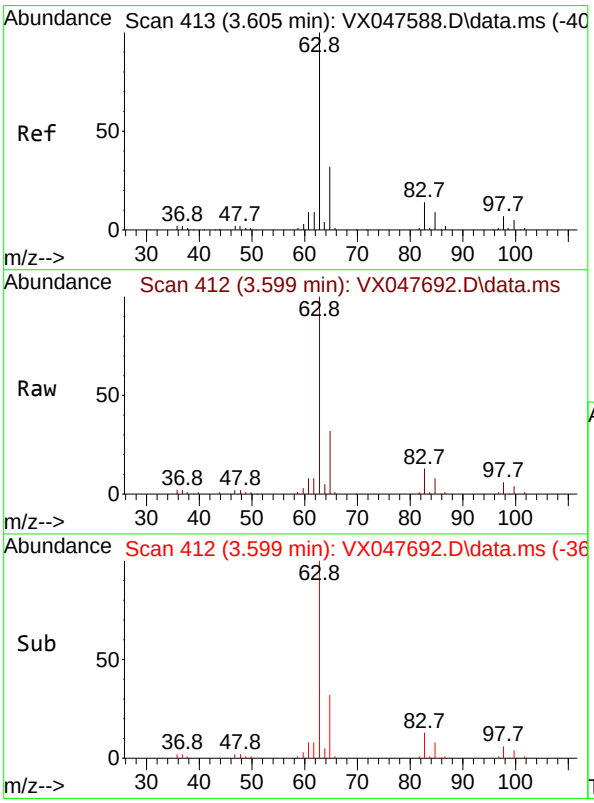
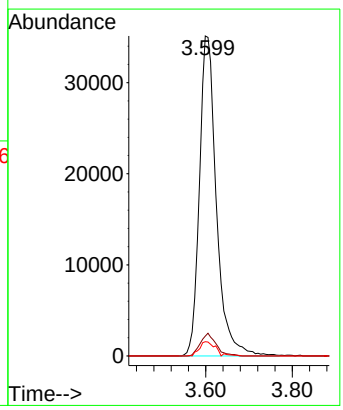
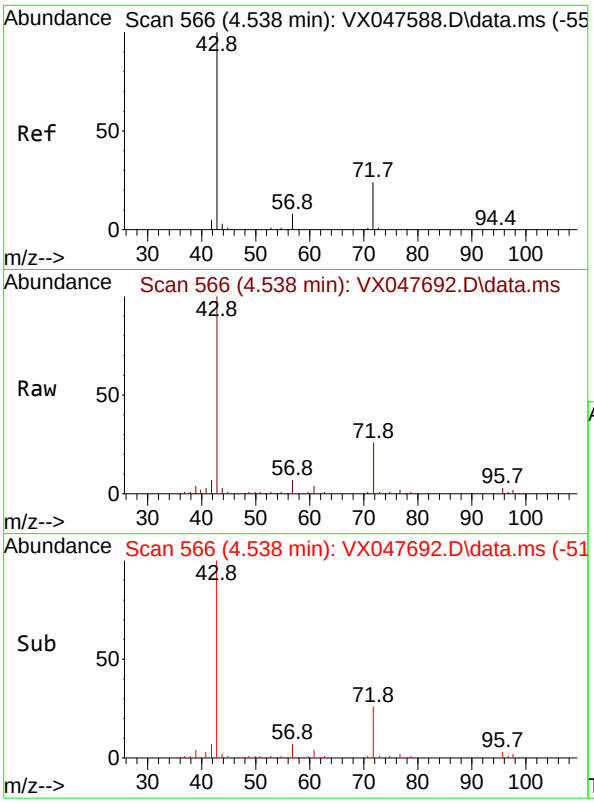


#24
1,1-Dichloroethane
Concen: 21.982 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 63 Resp: 95520

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.4	2.3	6.9





#25
2-Butanone
Concen: 95.121 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 14129

Ion	Ratio	Lower	Upper
43	100		
72	25.3	20.1	30.1

Instrument :
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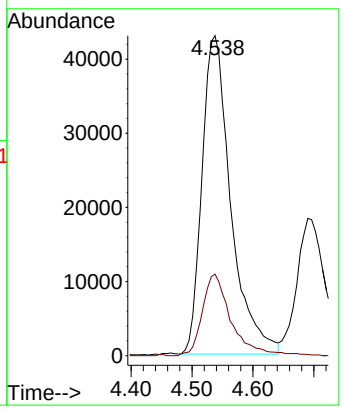
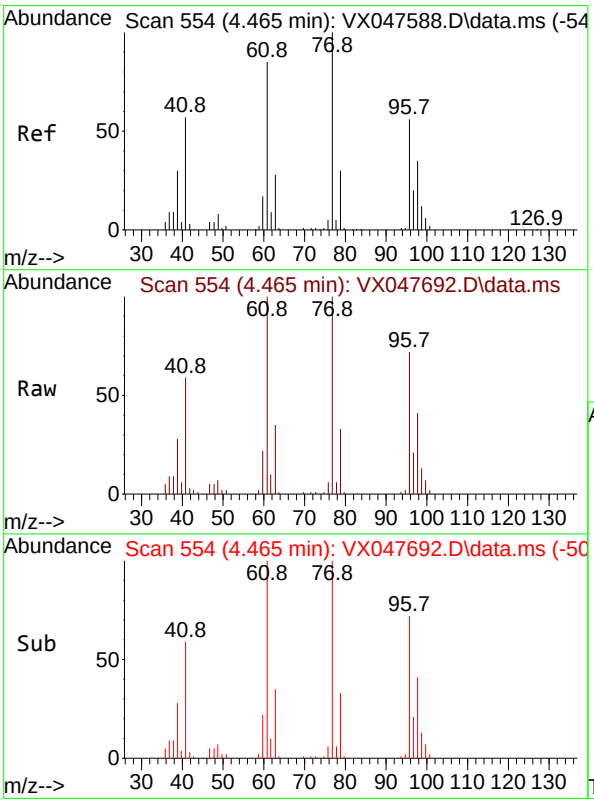
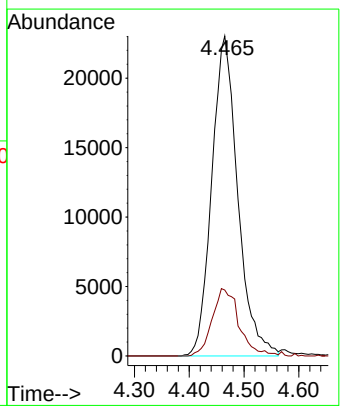


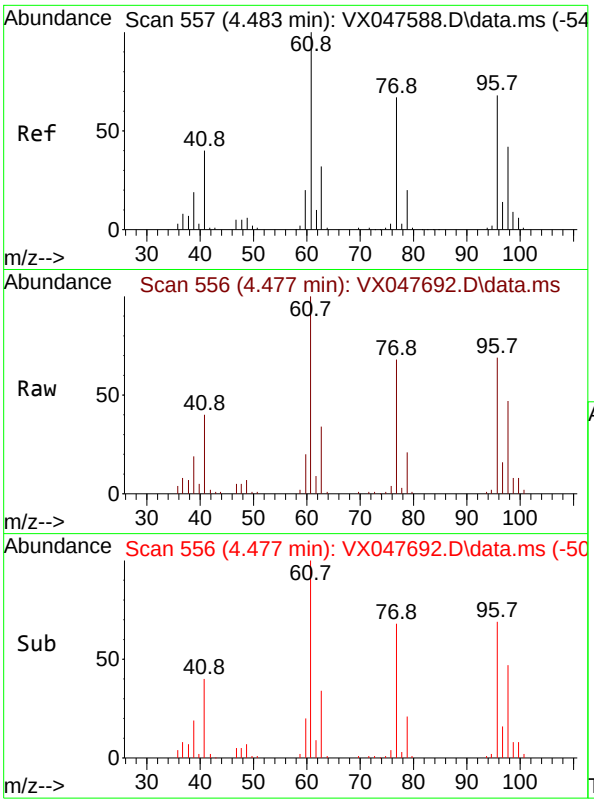


#26
2,2-Dichloropropane
Concen: 20.998 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 77 Resp: 75850

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.9	32.7

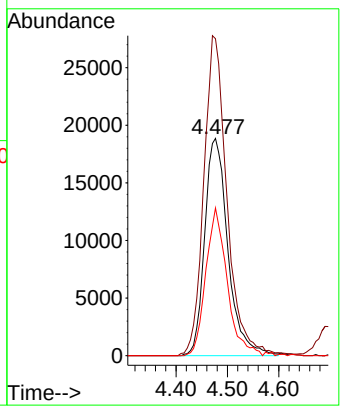




#27
cis-1,2-Dichloroethene
Concen: 21.995 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 96 Resp: 5928

Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	303.2
98	62.3	0.0	127.8



Instrument :
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ClientSampleId :
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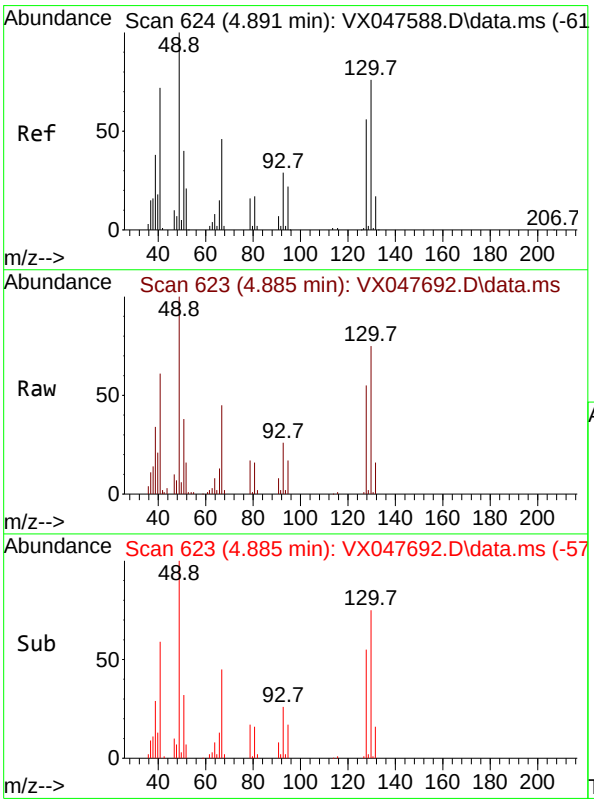
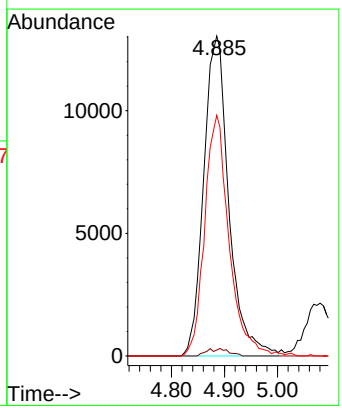
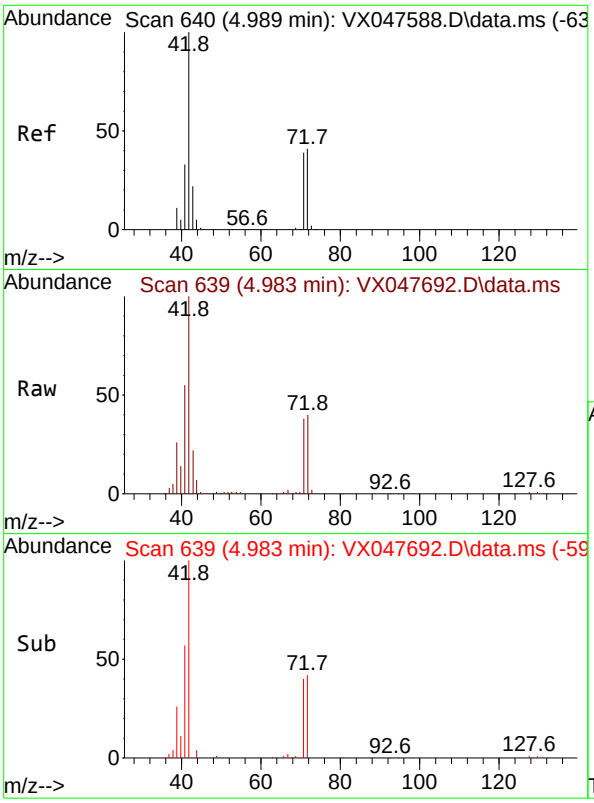


#28
Bromochloromethane
Concen: 22.649 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 49 Resp: 42966

Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	3.2
130	72.9	57.8	86.8

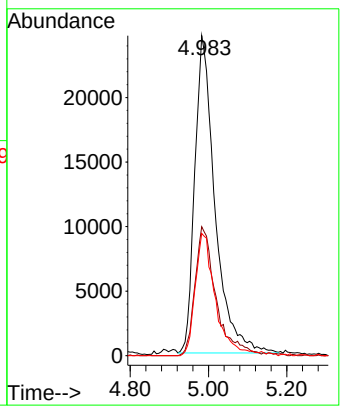




#29
Tetrahydrofuran
Concen: 98.972 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 42 Resp: 8844

Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.2	51.2
71	38.4	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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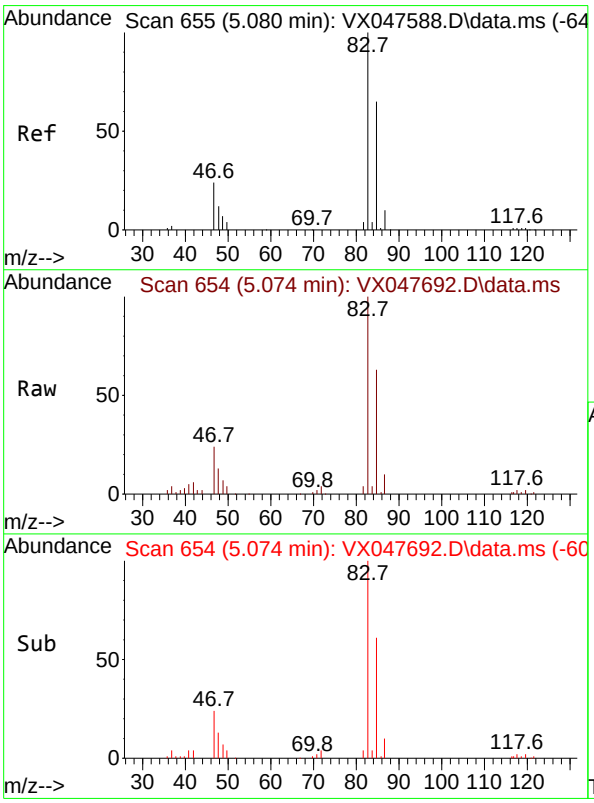
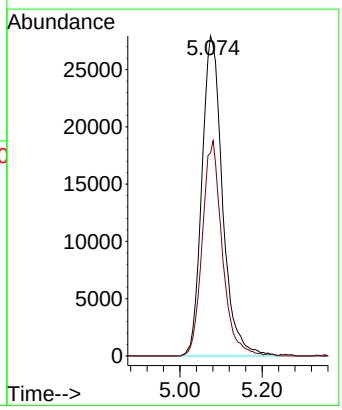
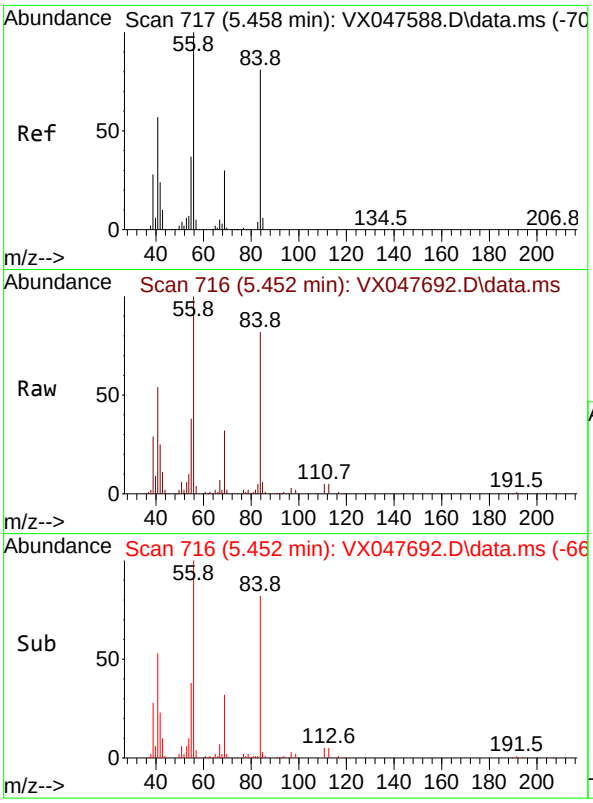


#30
Chloroform
Concen: 22.115 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 83 Resp: 97110

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6





#31
Cyclohexane
Concen: 21.972 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 56 Resp: 7952

Ion	Ratio	Lower	Upper
56	100		
69	31.6	23.8	35.8
84	79.7	64.6	97.0

Instrument :
MSVOA_X
ClientSampleId :
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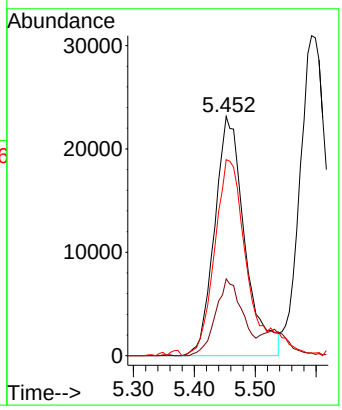
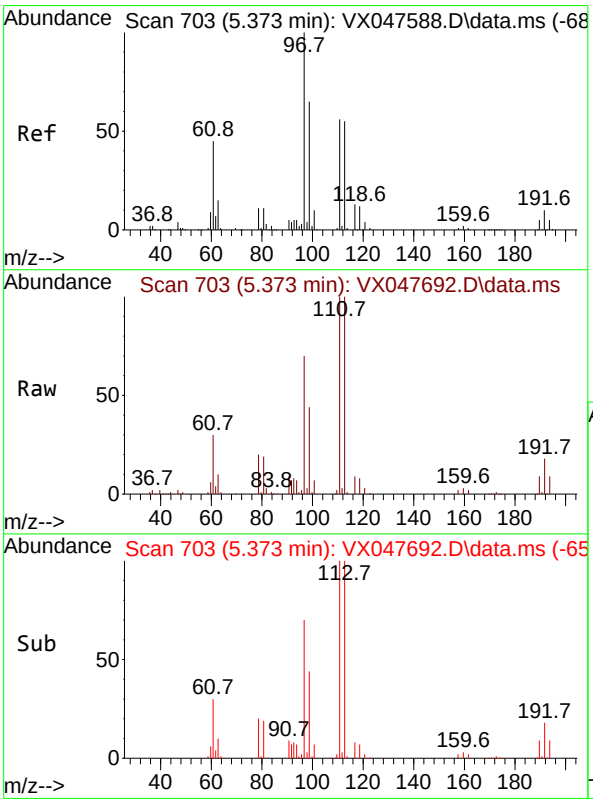
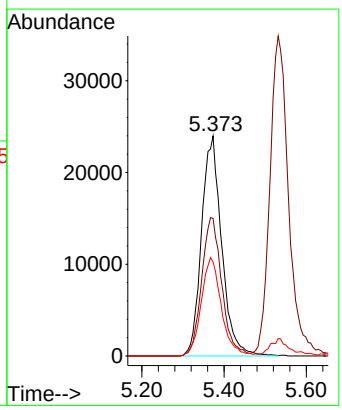


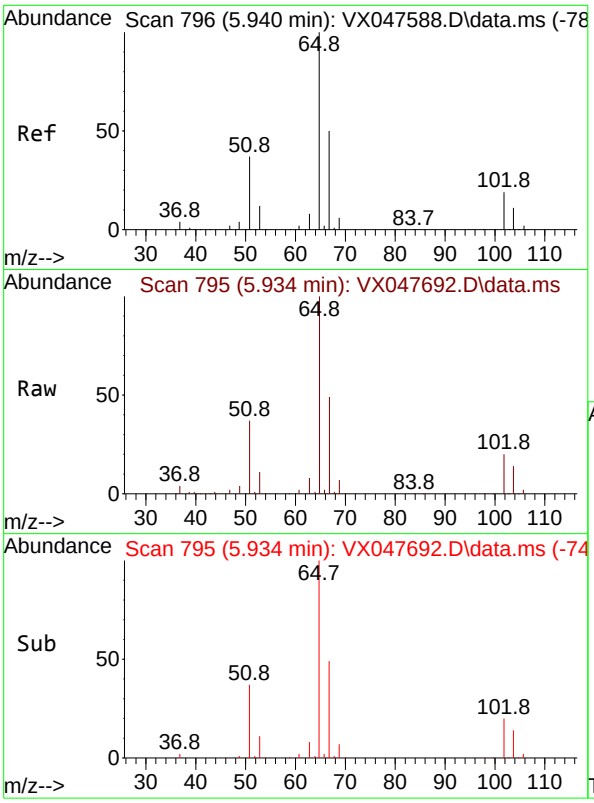


#32
1,1,1-Trichloroethane
Concen: 21.869 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 97 Resp: 81455

Ion	Ratio	Lower	Upper
97	100		
99	62.8	50.6	76.0
61	44.6	35.8	53.8

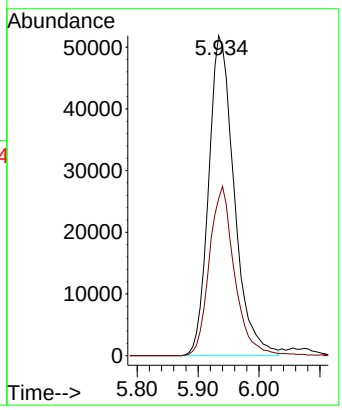




#33
1,2-Dichloroethane-d4
Concen: 55.114 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 65 Resp: 15095

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	103.0



Instrument :
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ClientSampleId :
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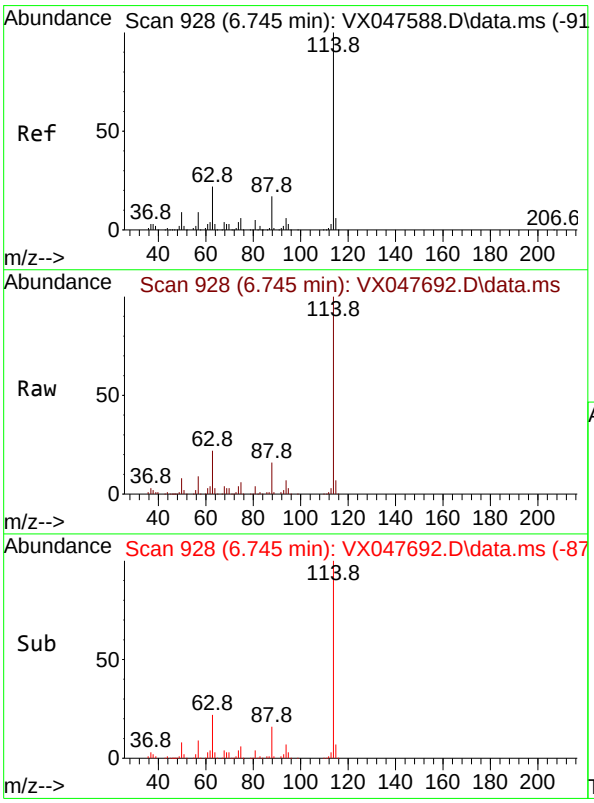
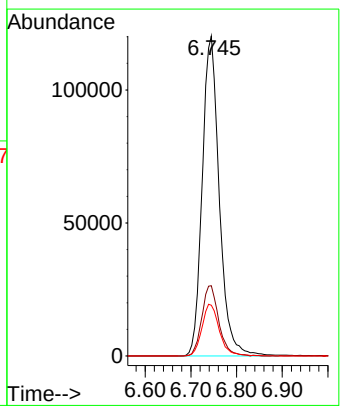
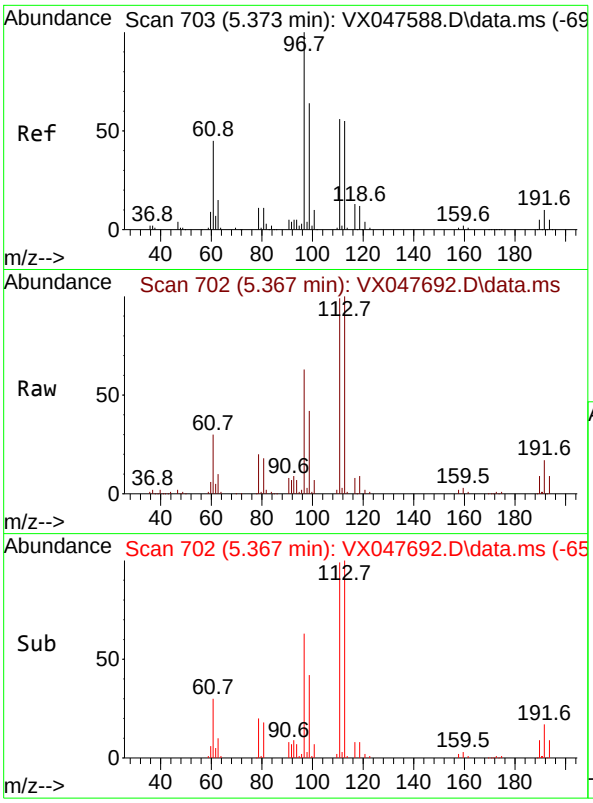


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:114 Resp: 311516

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.0
88	15.8	0.0	34.2

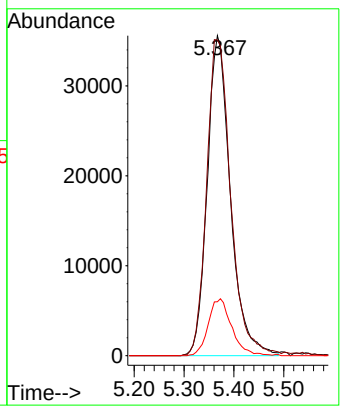




#35
Dibromofluoromethane
Concen: 54.973 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:113 Resp: 11484

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.9	121.3
192	18.0	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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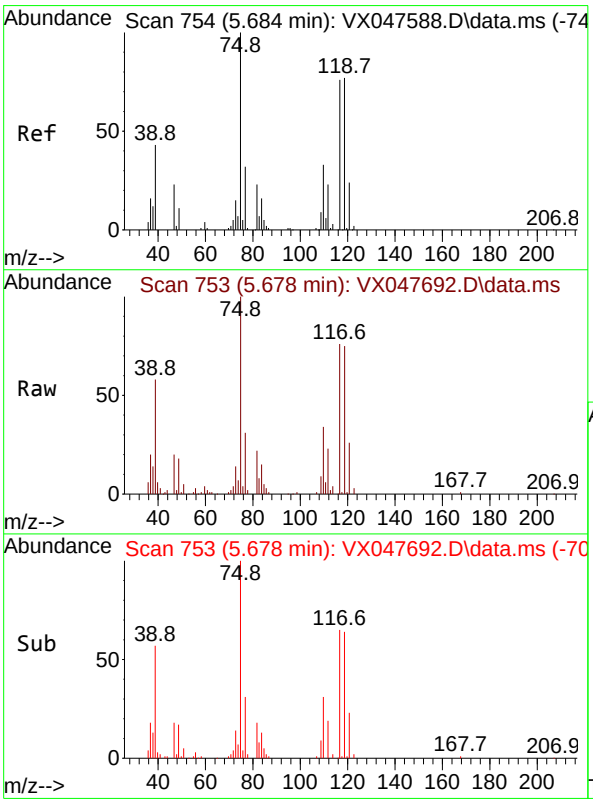
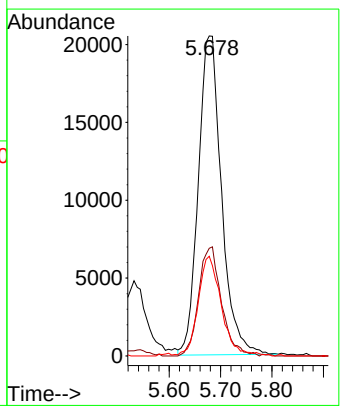
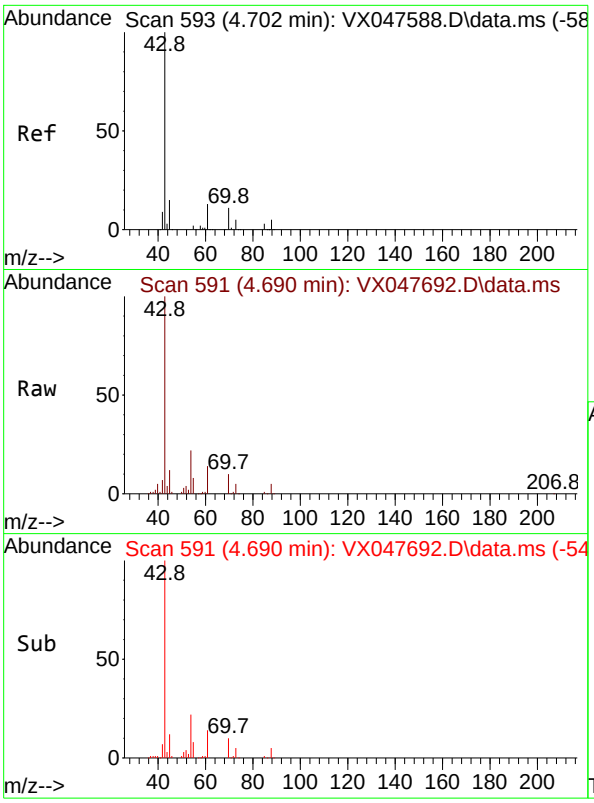


#36
1,1-Dichloropropene
Concen: 21.061 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 64296

Ion	Ratio	Lower	Upper
75	100		
110	33.6	16.7	50.1
77	31.0	24.3	36.5





#37
Ethyl Acetate
Concen: 19.111 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 6246

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	9.9	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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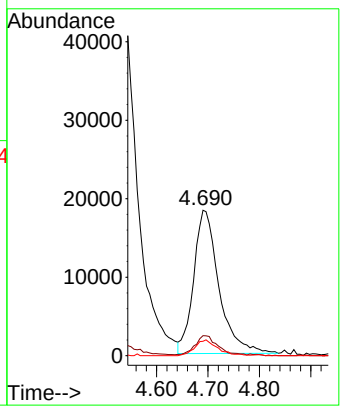
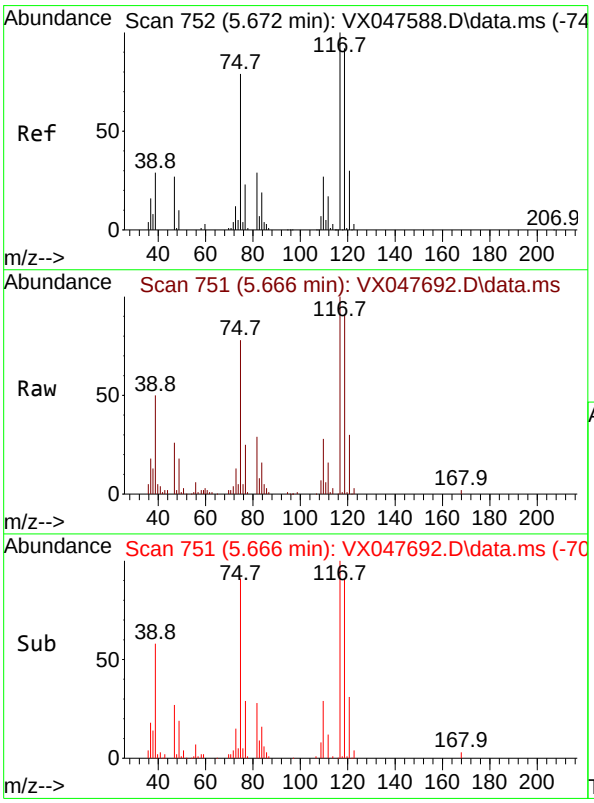
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

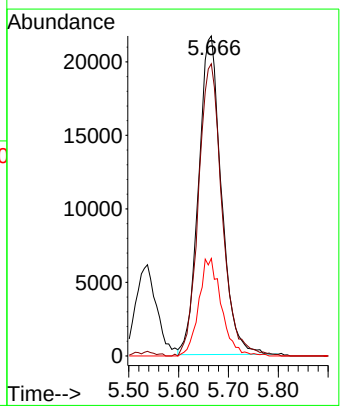


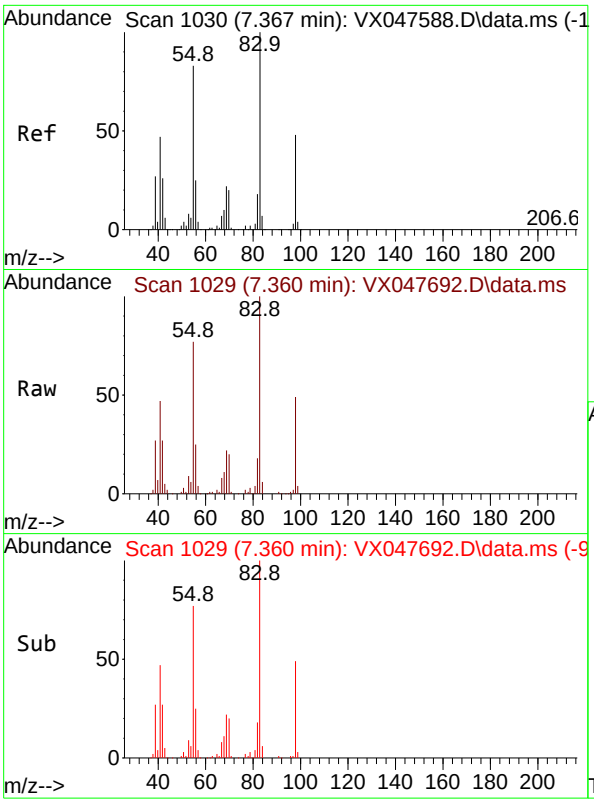


#38
Carbon Tetrachloride
Concen: 20.756 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:117 Resp: 68845

Ion	Ratio	Lower	Upper
117	100		
119	91.8	73.4	110.2
121	30.6	23.8	35.6

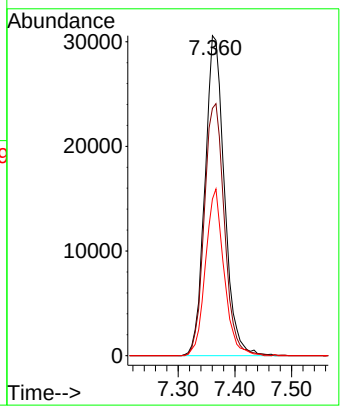




#39
Methylcyclohexane
Concen: 21.057 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 83 Resp: 7297

Ion	Ratio	Lower	Upper
83	100		
55	77.3	66.4	99.6
98	48.9	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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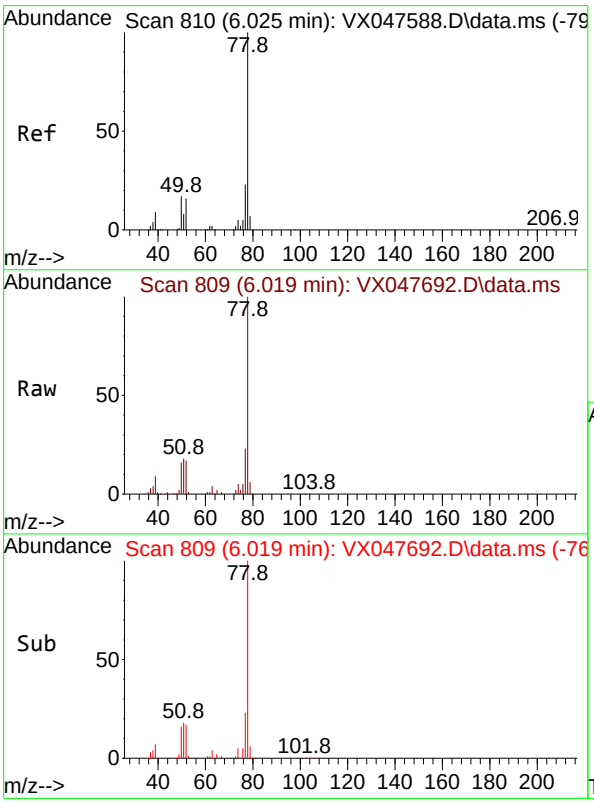
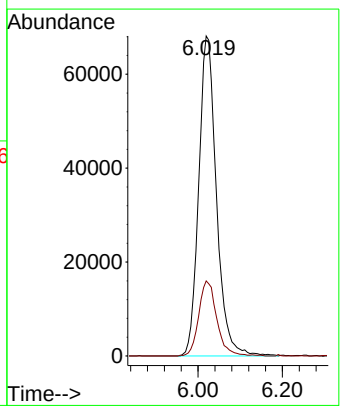
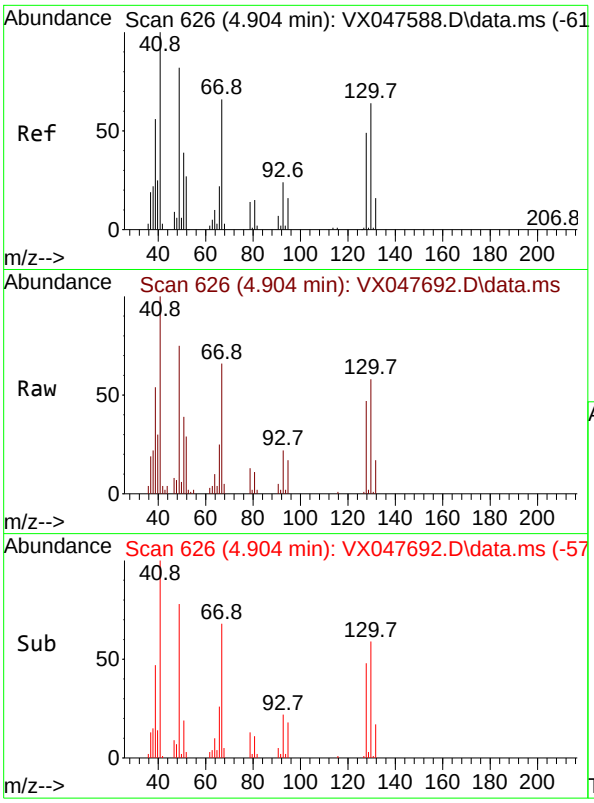


#40
Benzene
Concen: 21.483 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 78 Resp: 199198

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

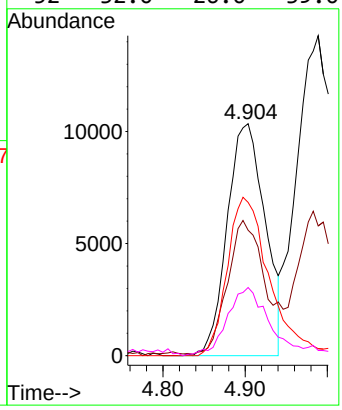




#41
Methacrylonitrile
Concen: 19.708 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 41 Resp: 3325

Ion	Ratio	Lower	Upper
41	100		
39	57.7	43.3	64.9
67	75.3	58.6	87.8
52	32.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
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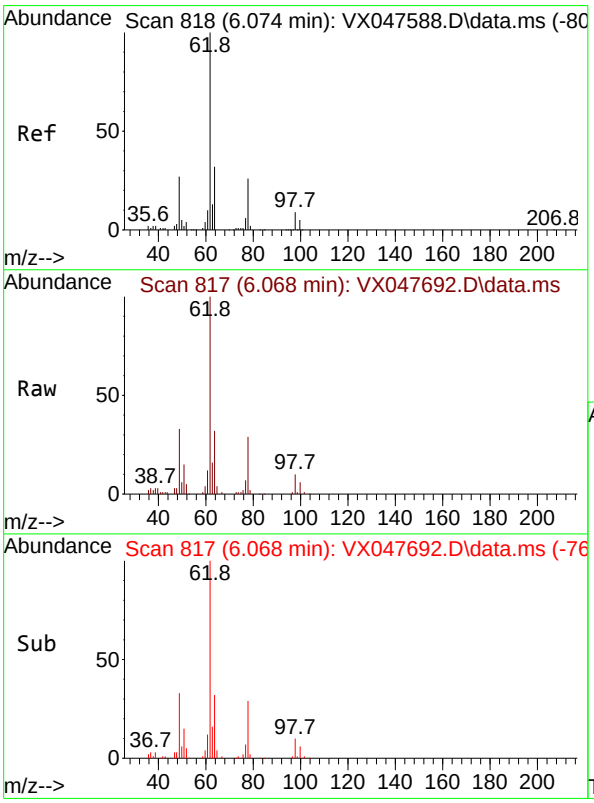
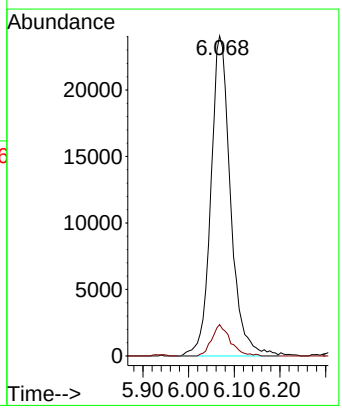
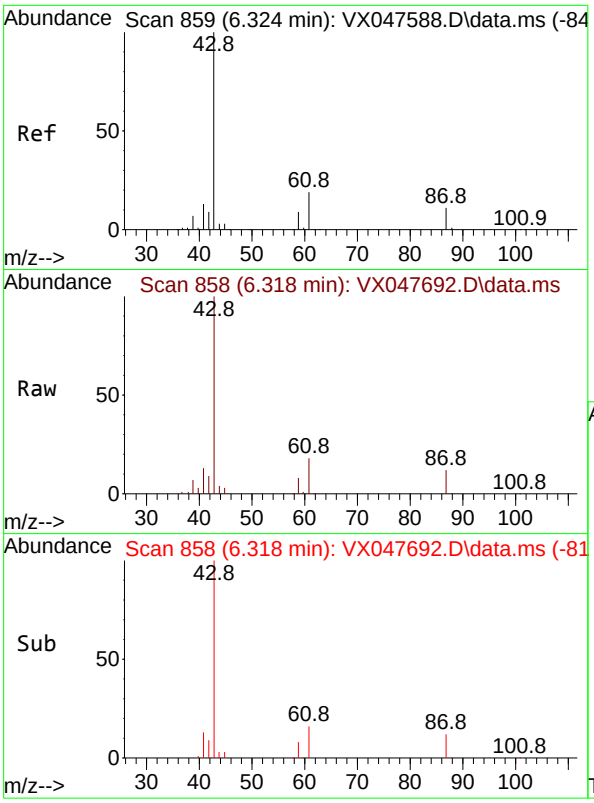


#42
1,2-Dichloroethane
Concen: 20.396 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 62 Resp: 71955

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0

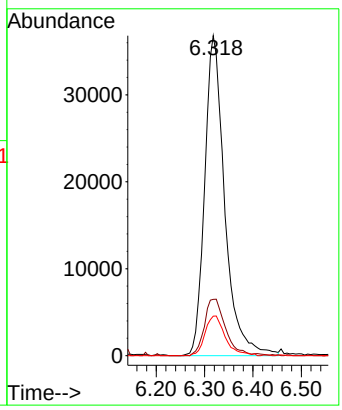




#43
Isopropyl Acetate
Concen: 19.773 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 10599

Ion	Ratio	Lower	Upper
43	100		
61	18.4	15.2	22.8
87	12.5	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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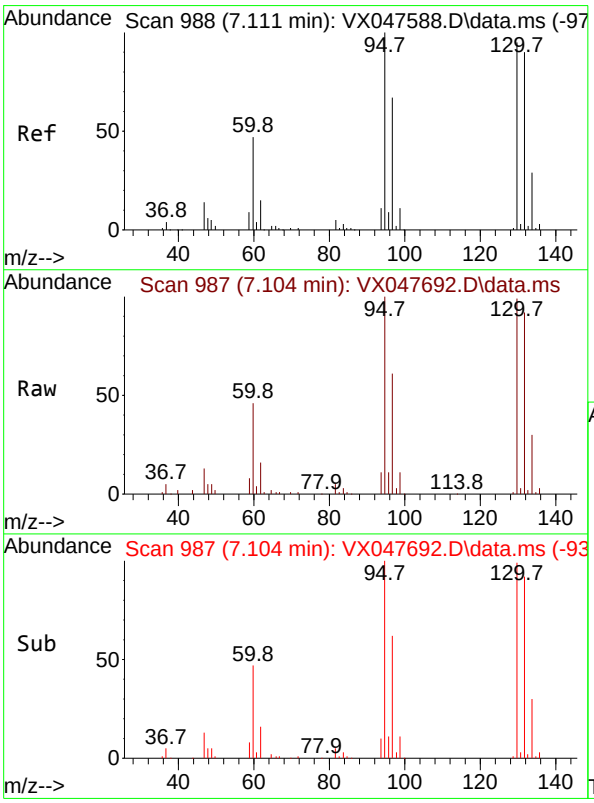
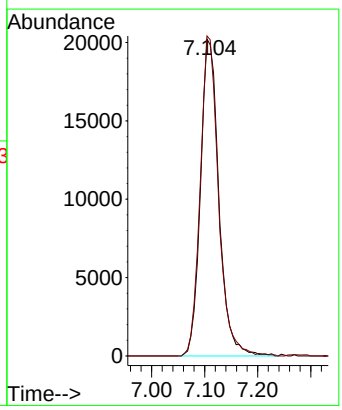
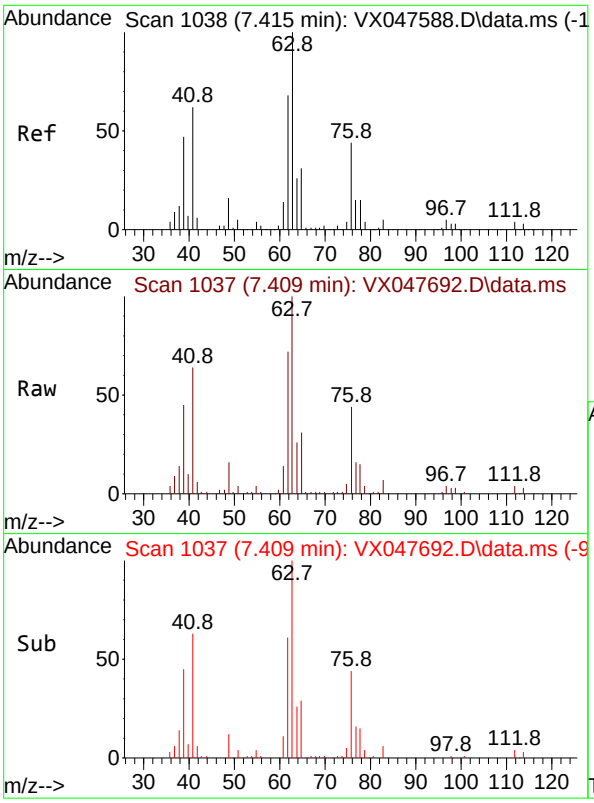


#44
Trichloroethene
Concen: 21.749 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:130 Resp: 48754

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	210.8

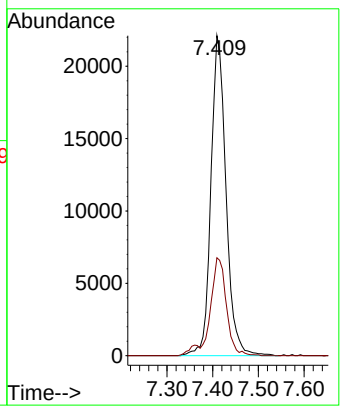




#45
1,2-Dichloropropane
Concen: 21.367 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 63 Resp: 5073

Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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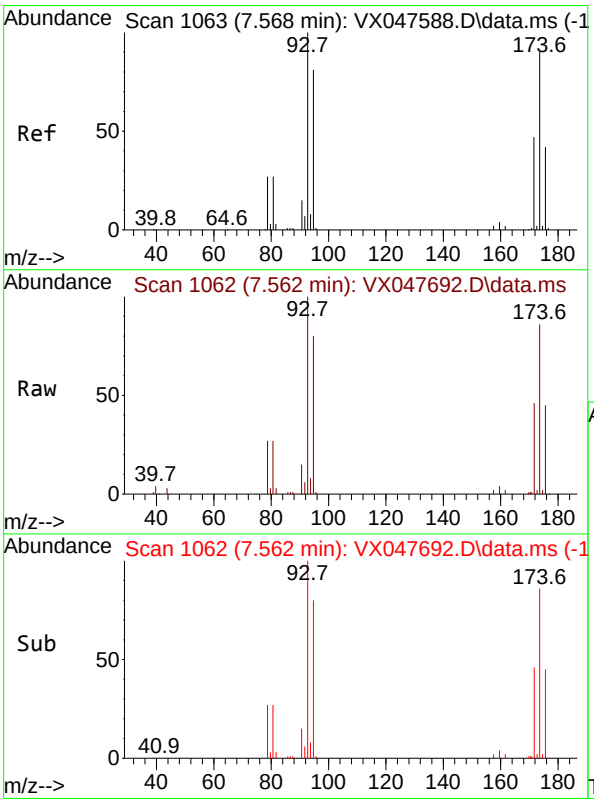
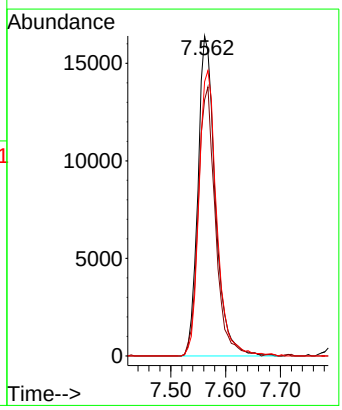
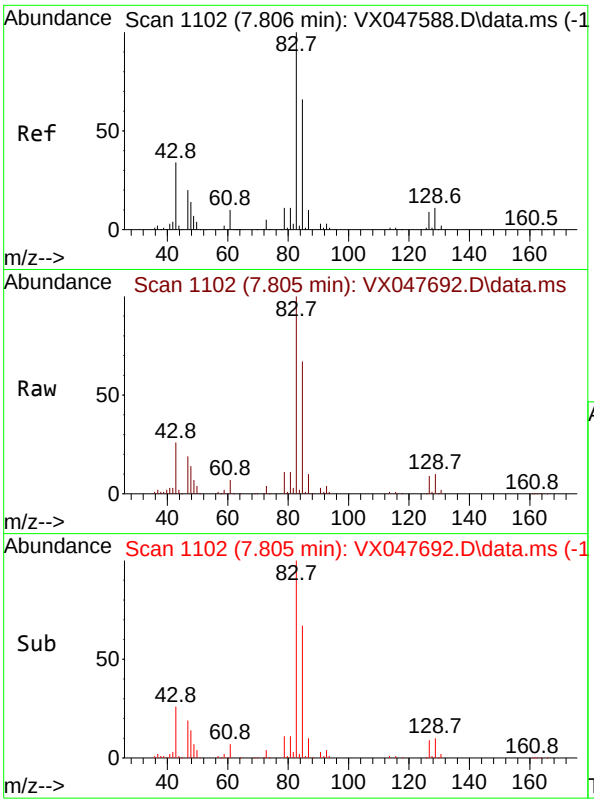


#46
Dibromomethane
Concen: 20.881 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 93 Resp: 36077

Ion	Ratio	Lower	Upper
93	100		
95	83.1	65.0	97.6
174	91.6	71.6	107.4

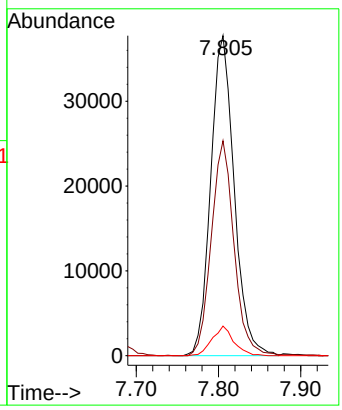




#47
Bromodichloromethane
Concen: 20.997 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 83 Resp: 7486

Ion	Ratio	Lower	Upper
83	100		
85	67.2	52.5	78.7
127	9.3	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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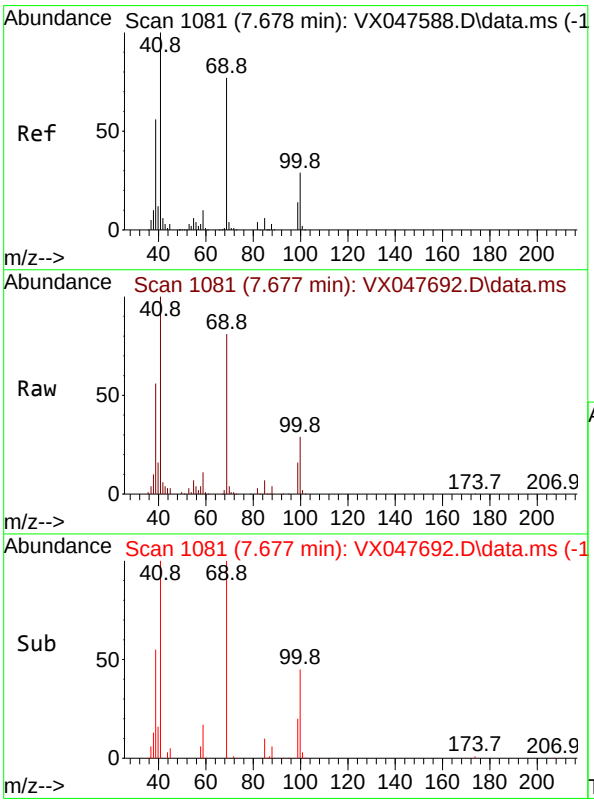
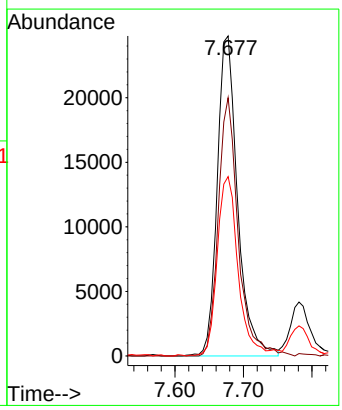
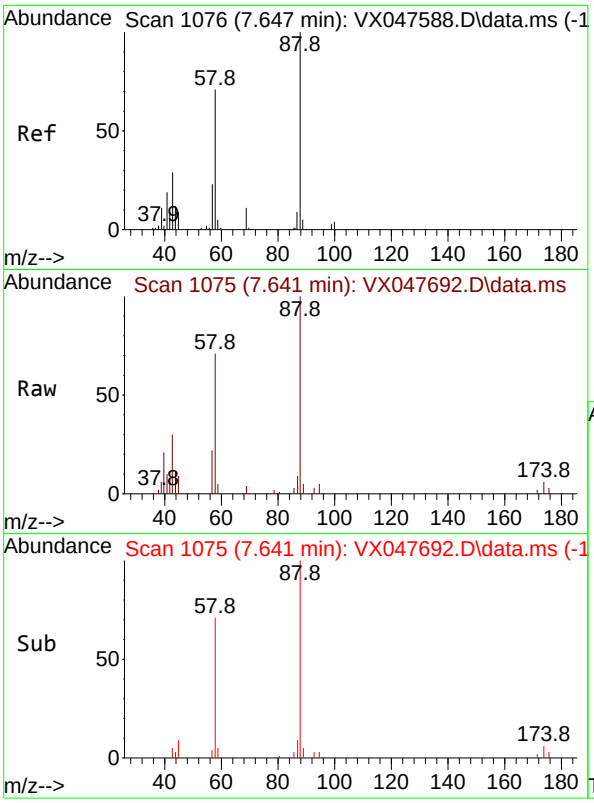


#48
Methyl methacrylate
Concen: 19.152 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 41 Resp: 51141

Ion	Ratio	Lower	Upper
41	100		
69	78.6	61.4	92.2
39	57.2	45.8	68.6

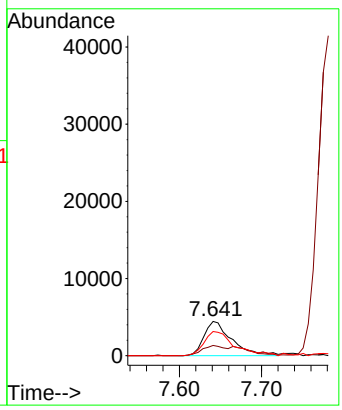




#49
1,4-Dioxane
Concen: 388.865 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 88 Resp: 1049

Ion	Ratio	Lower	Upper
88	100		
43	25.0	30.2	45.2
58	76.3	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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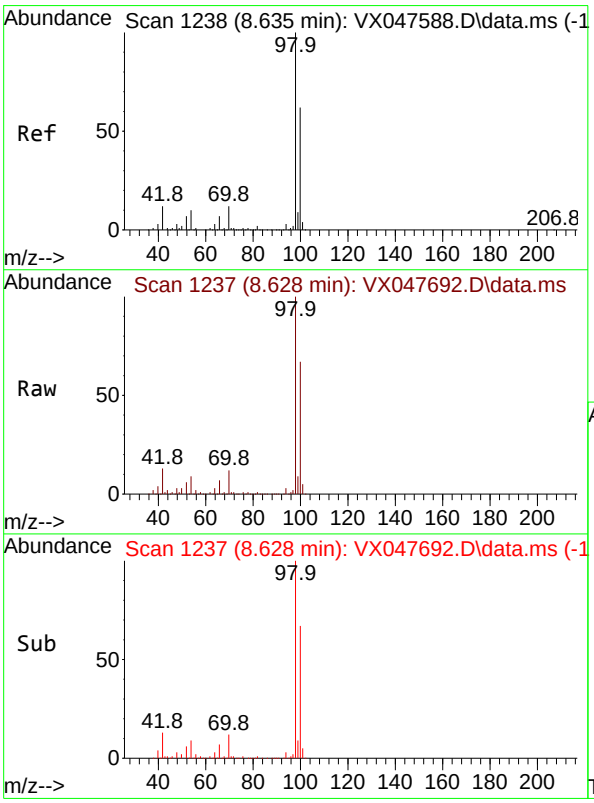
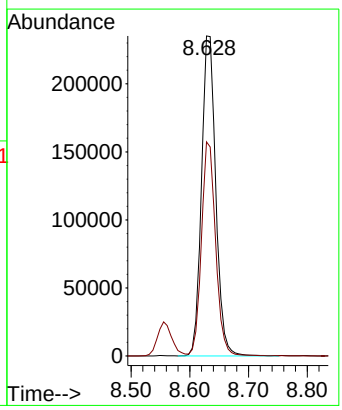
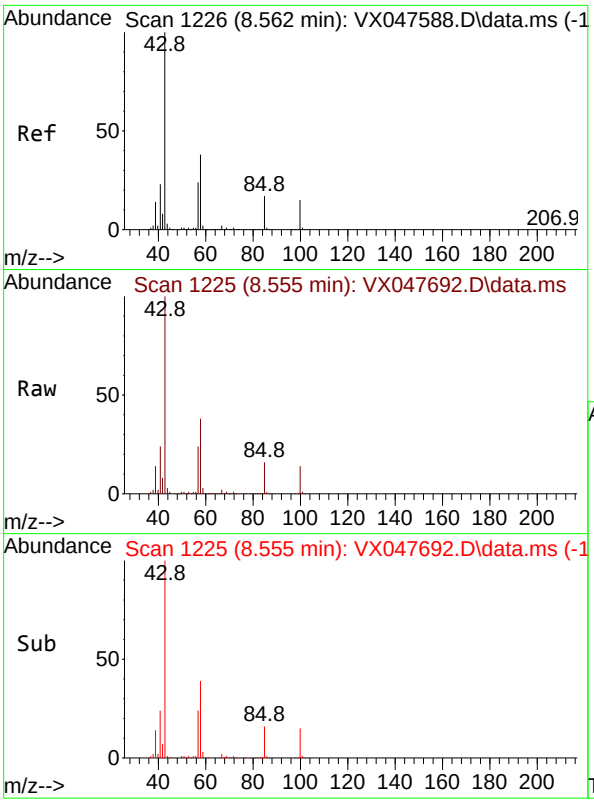


#50
Toluene-d8
Concen: 54.922 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 98 Resp: 397036

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.4

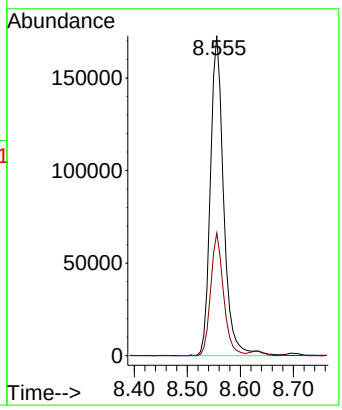




#51
4-Methyl-2-Pentanone
Concen: 101.277 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 30102

Ion	Ratio	Lower	Upper
43	100		
58	37.1	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
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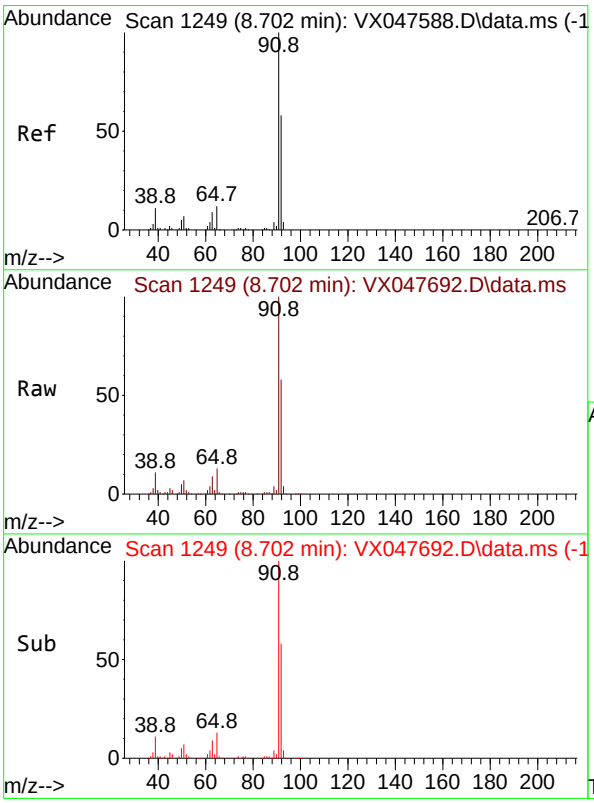
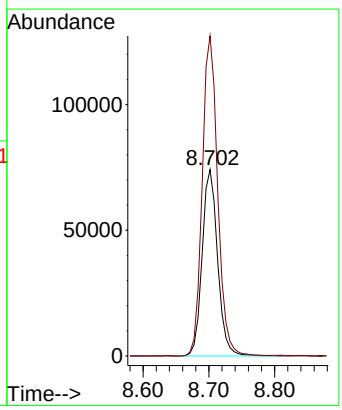
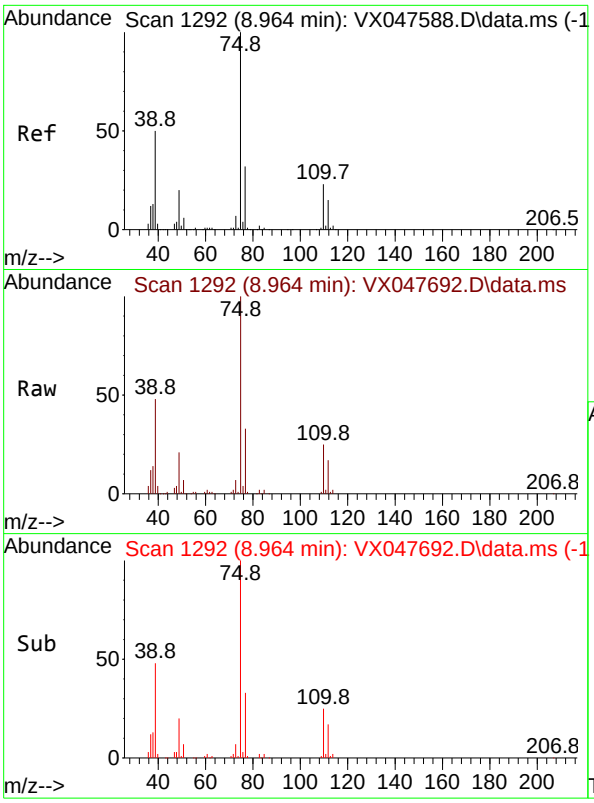


#52
Toluene
Concen: 21.175 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 92 Resp: 120963

Ion	Ratio	Lower	Upper
92	100		
91	172.2	137.1	205.7

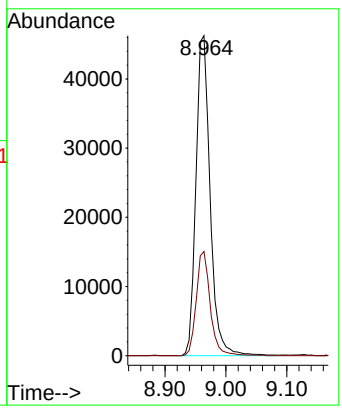




#53
t-1,3-Dichloropropene
Concen: 20.577 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 7483

Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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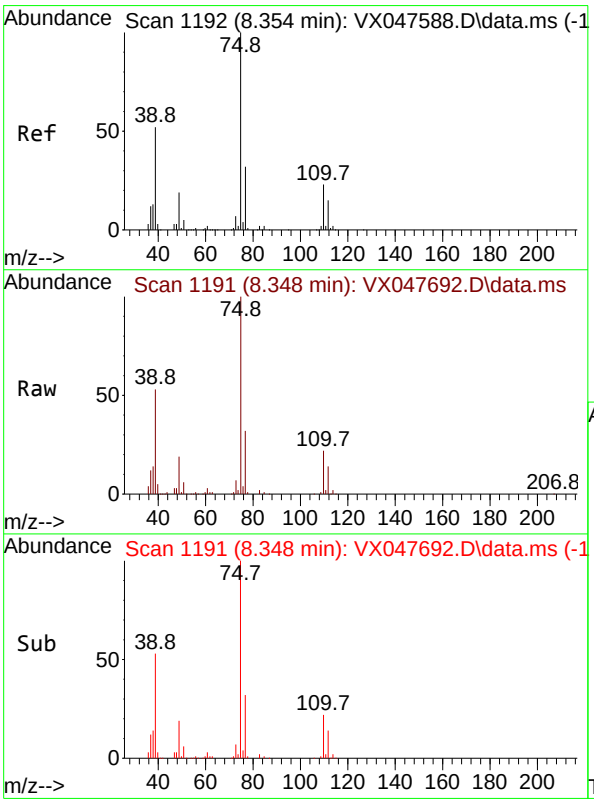
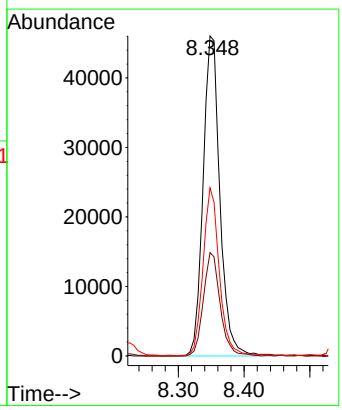
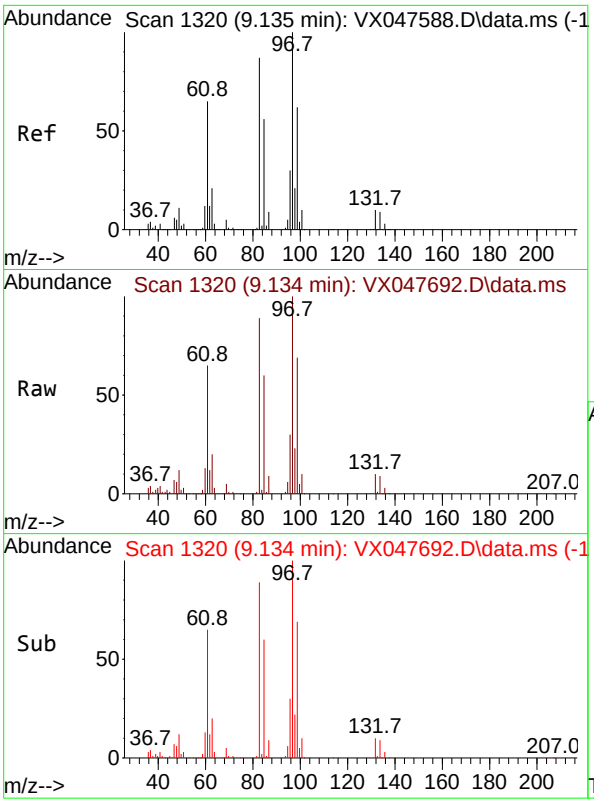


#54
cis-1,3-Dichloropropene
Concen: 21.115 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 82076

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	52.2	41.4	62.2

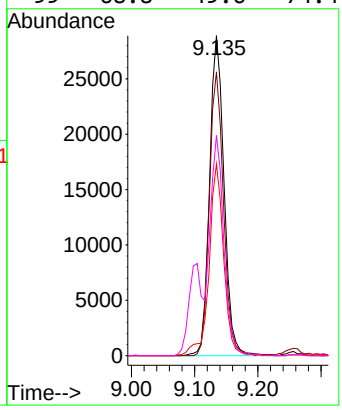




#55
1,1,2-Trichloroethane
Concen: 20.933 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 97 Resp: 4610

Ion	Ratio	Lower	Upper
97	100		
83	88.7	69.6	104.4
85	59.7	45.0	67.6
99	68.8	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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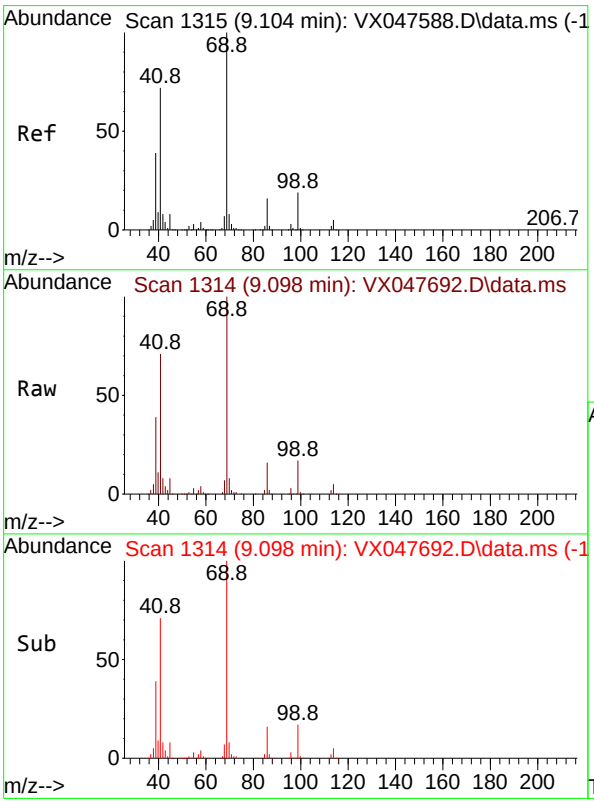
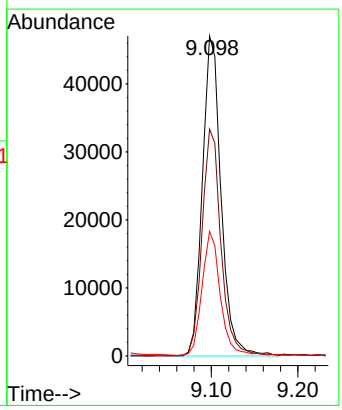
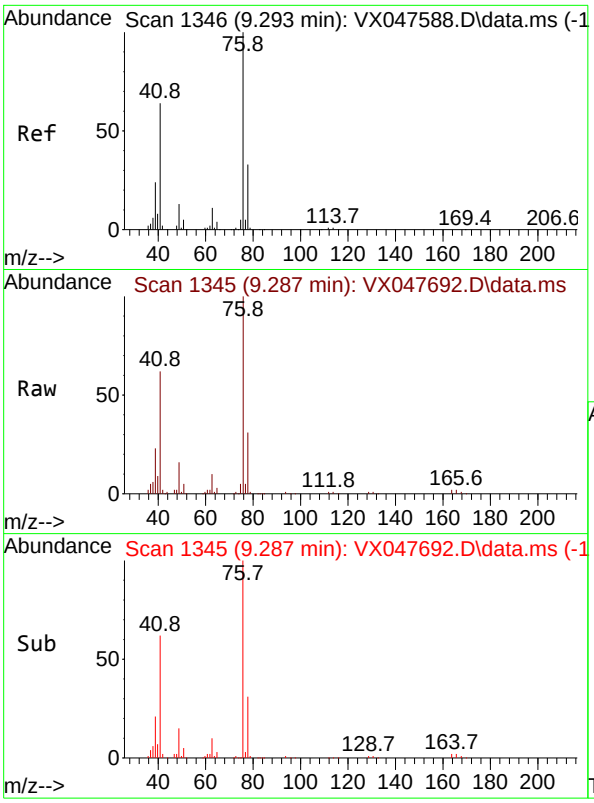


#56
Ethyl methacrylate
Concen: 20.390 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 69 Resp: 70536

Ion	Ratio	Lower	Upper
69	100		
41	71.4	58.6	87.8
39	38.3	31.5	47.3

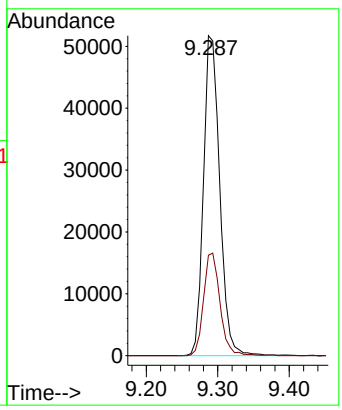




#57
1,3-Dichloropropane
Concen: 21.589 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 76 Resp: 8169

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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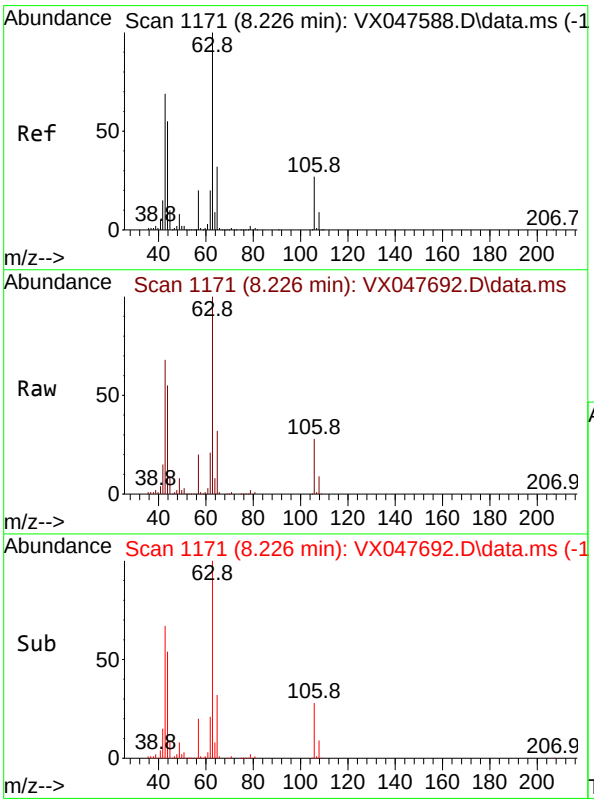
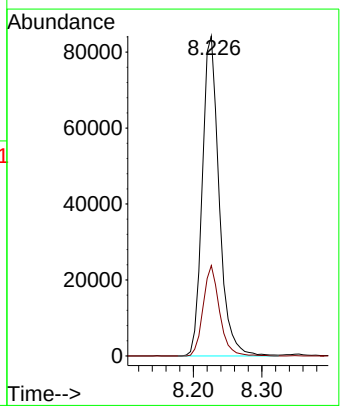
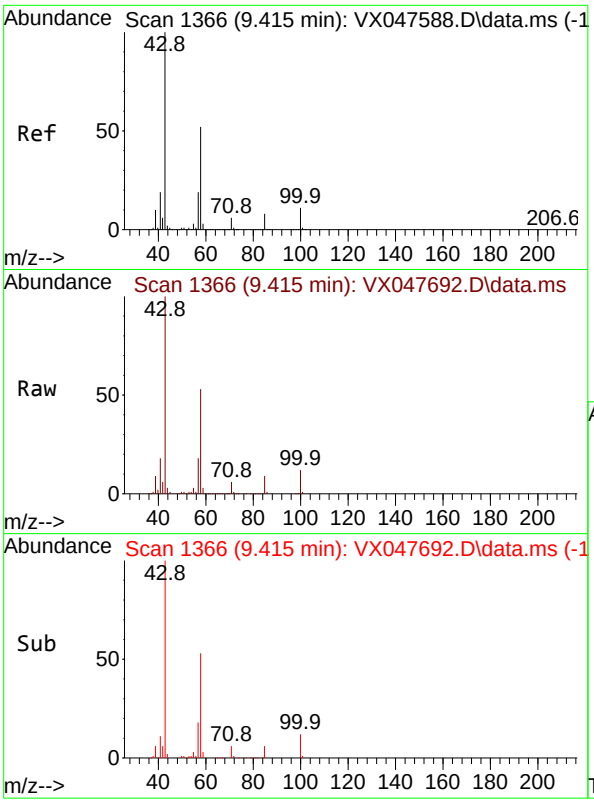


#58
2-Chloroethyl Vinyl ether
Concen: 94.402 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 63 Resp: 144109

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.9	32.9





#59
2-Hexanone
Concen: 96.561 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 20612

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.2

Instrument :
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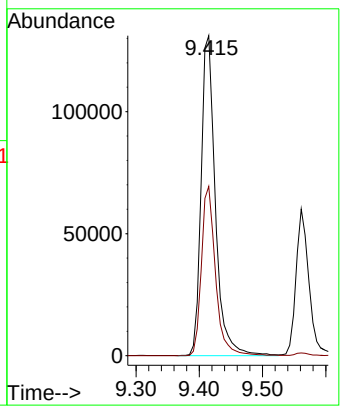
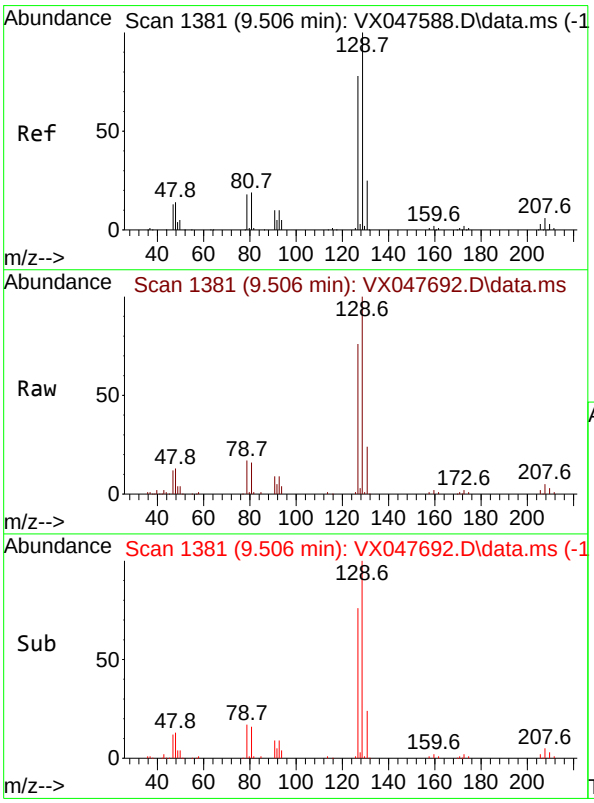
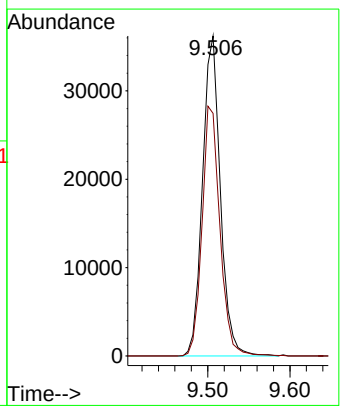


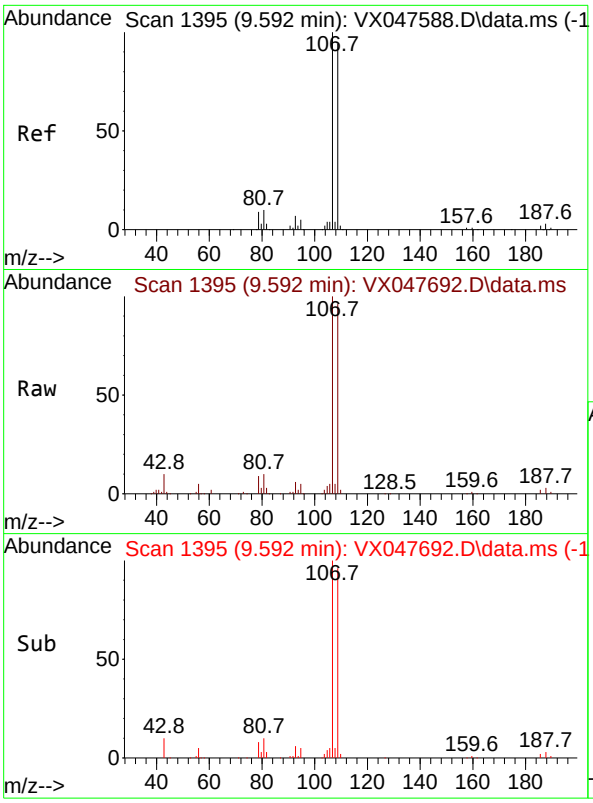


#60
Dibromochloromethane
Concen: 21.491 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:129 Resp: 54546

Ion	Ratio	Lower	Upper
129	100		
127	78.2	38.4	115.2

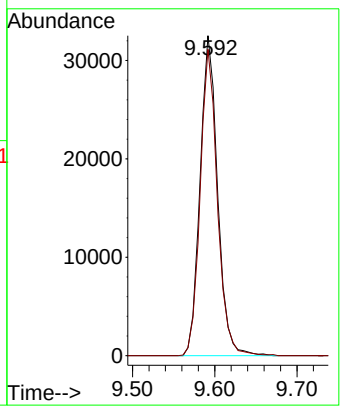




#61
1,2-Dibromoethane
Concen: 21.443 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:107 Resp: 4810

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9



Instrument :
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ClientSampleId :
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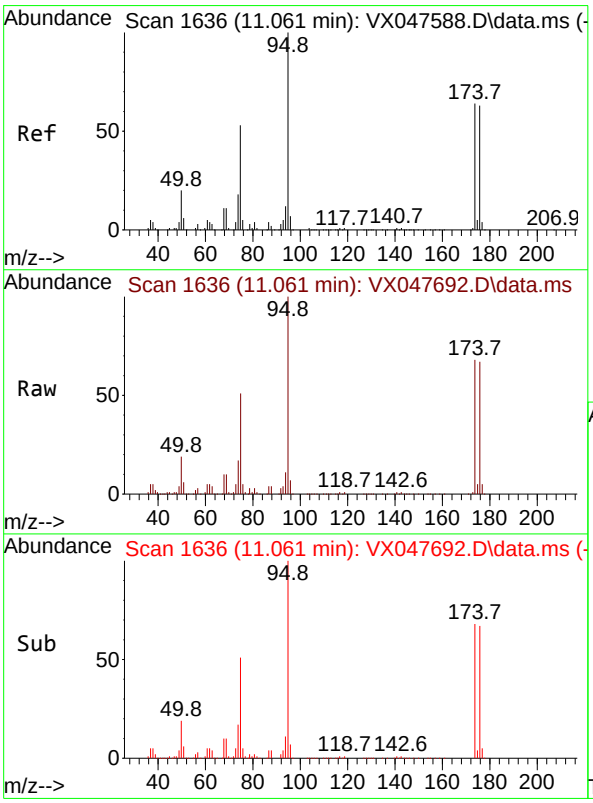
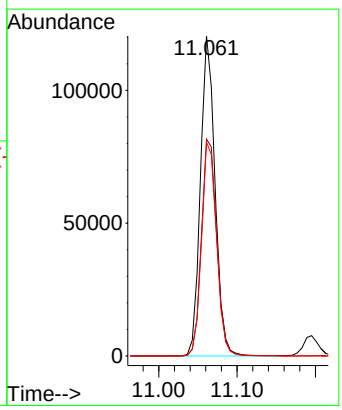
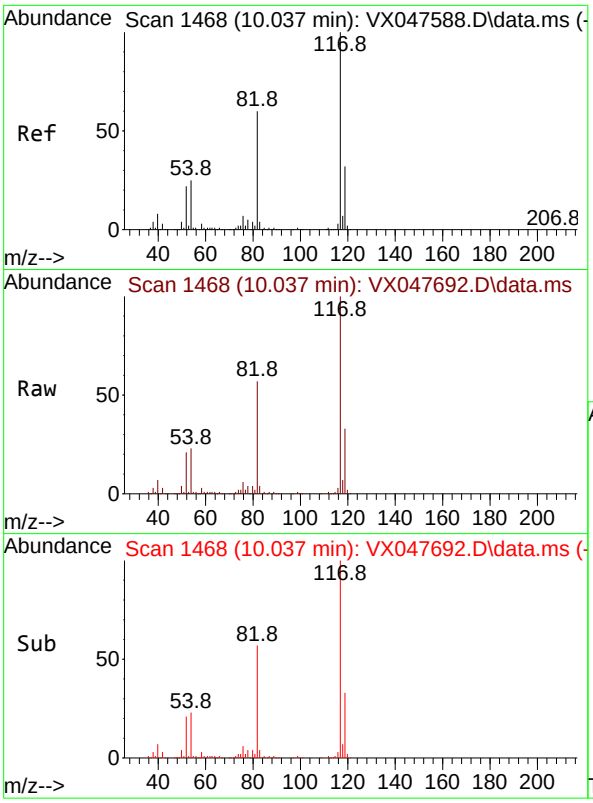


#62
4-Bromofluorobenzene
Concen: 56.816 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 95 Resp: 155877

Ion	Ratio	Lower	Upper
95	100		
174	71.0	0.0	141.6
176	68.5	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:117 Resp: 28321

Ion	Ratio	Lower	Upper
117	100		
82	57.1	47.8	71.6
119	32.6	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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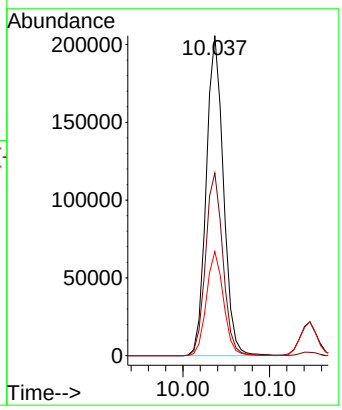
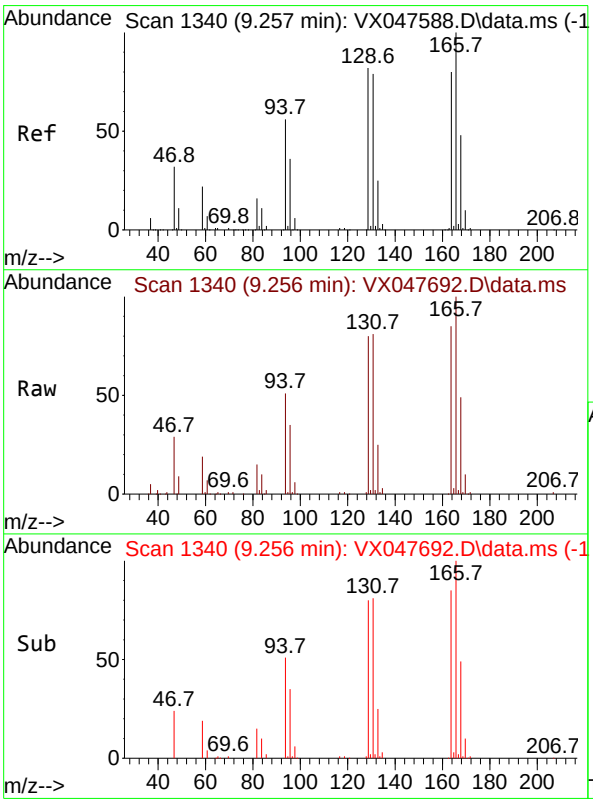
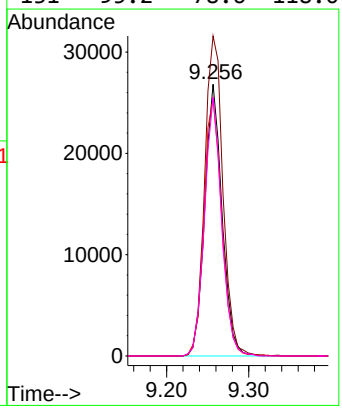


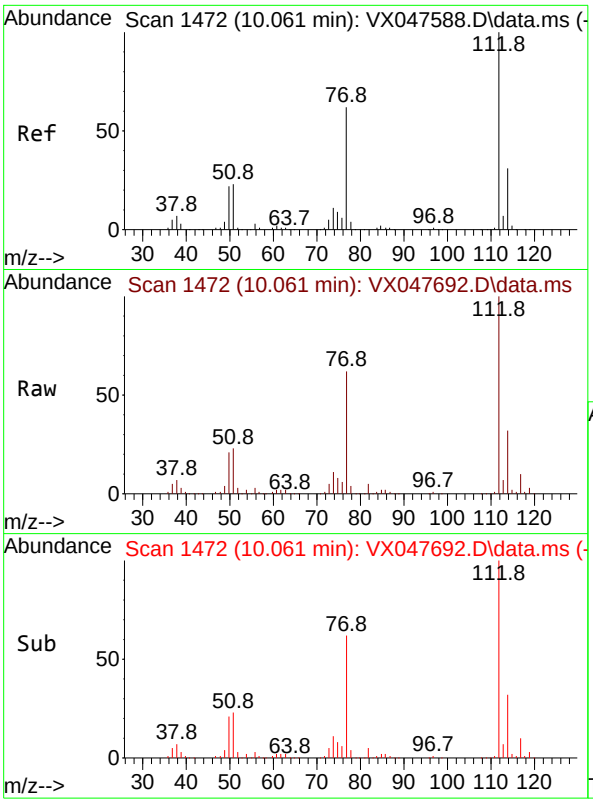


#64
Tetrachloroethene
Concen: 21.330 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:164 Resp: 39380

Ion	Ratio	Lower	Upper
164	100		
166	117.8	100.2	150.2
129	94.7	81.8	122.6
131	95.2	78.6	118.0

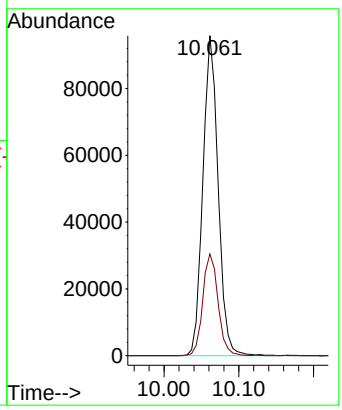




#65
Chlorobenzene
Concen: 21.085 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:112 Resp: 13566

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.1	37.7



Instrument :
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ClientSampleId :
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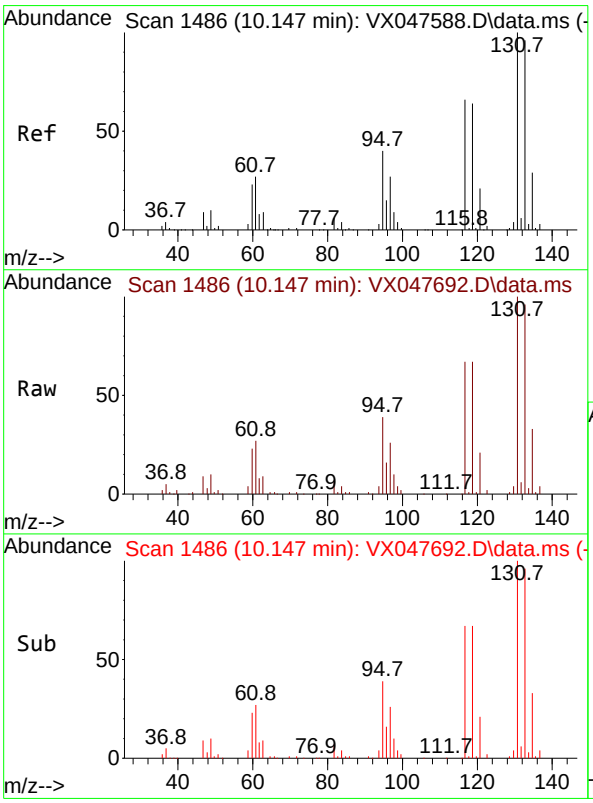
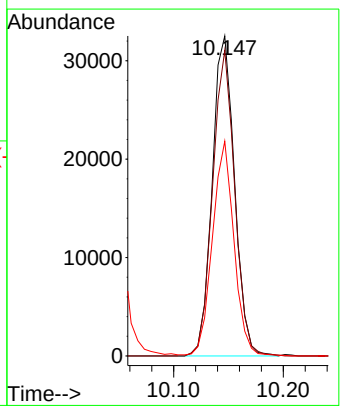
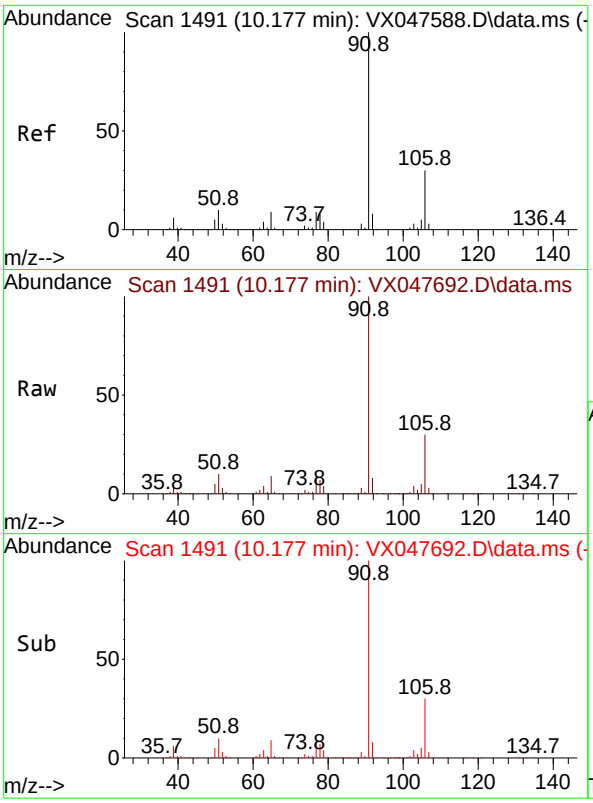


#66
1,1,1,2-Tetrachloroethane
Concen: 20.715 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:131 Resp: 45992

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	142.0
119	65.0	32.0	96.0

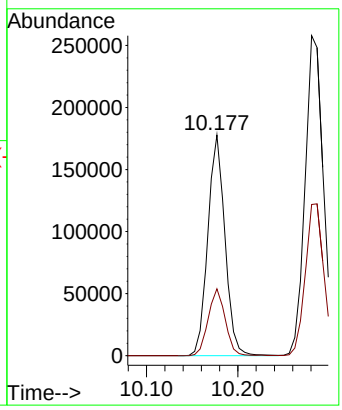




#67
Ethyl Benzene
Concen: 20.809 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 91 Resp: 23100

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
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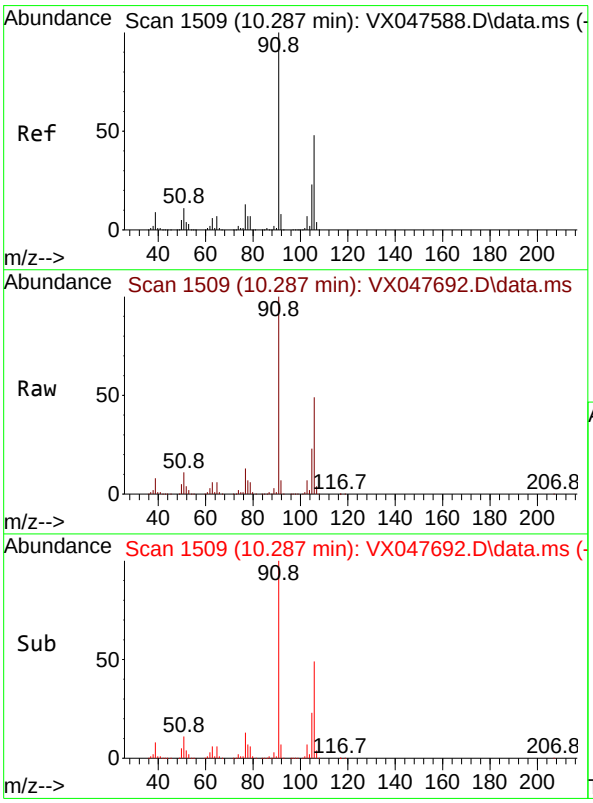
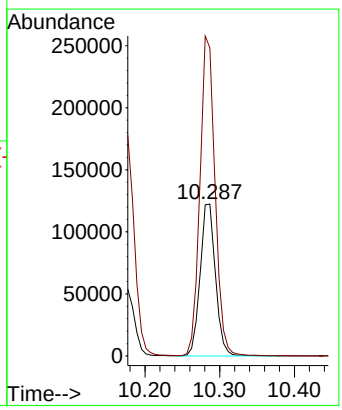
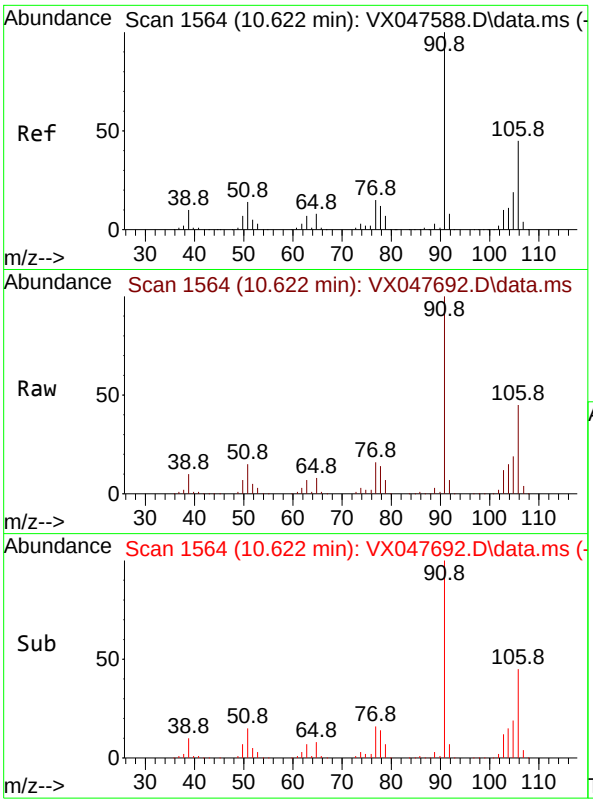


#68
m/p-Xylenes
Concen: 42.274 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:106 Resp: 174681

Ion	Ratio	Lower	Upper
106	100		
91	206.8	167.8	251.8

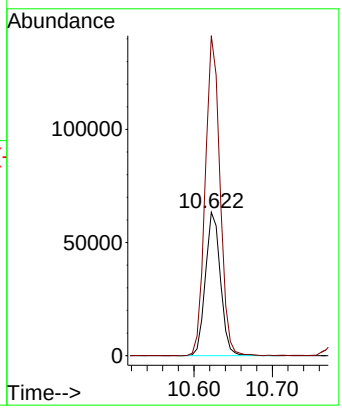




#69
o-Xylene
Concen: 21.029 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:106 Resp: 8404

Ion	Ratio	Lower	Upper
106	100		
91	219.5	111.1	333.4



Instrument :
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ClientSampleId :
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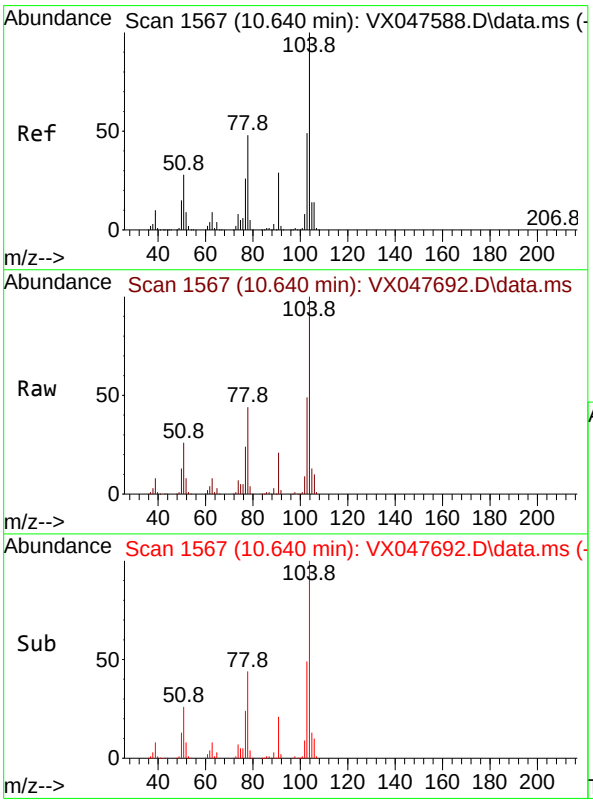
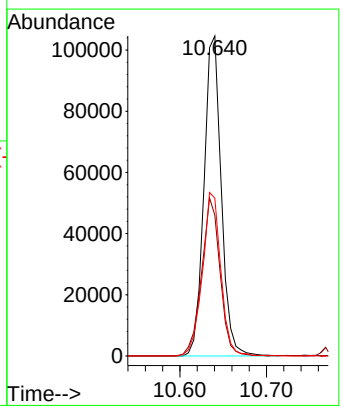
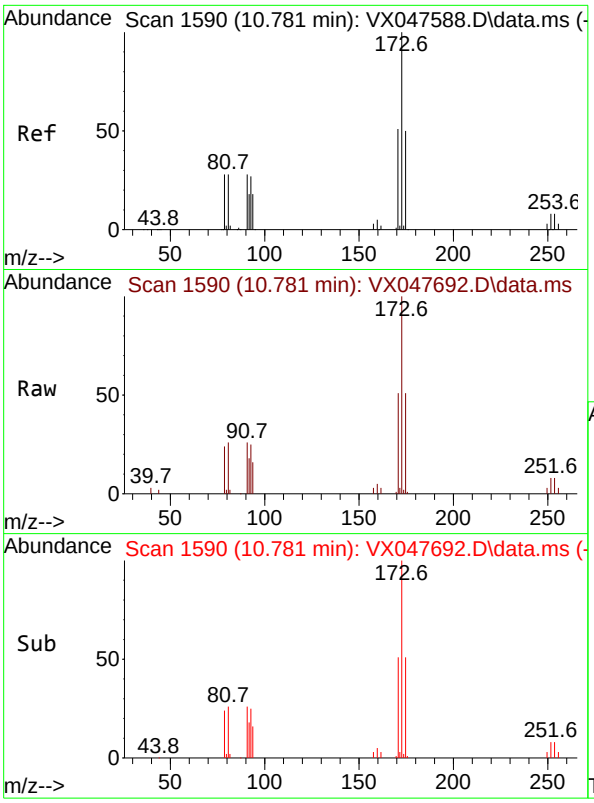


#70
Styrene
Concen: 20.714 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:104 Resp: 145060

Ion	Ratio	Lower	Upper
104	100		
78	52.6	43.1	64.7
103	54.4	43.1	64.7

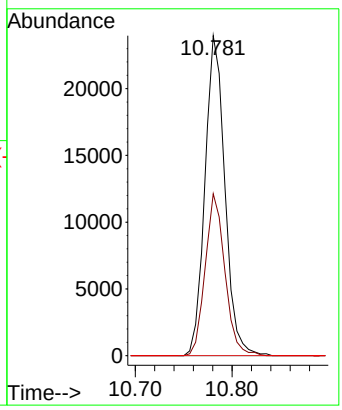




#71
Bromoform
Concen: 20.720 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:173 Resp: 3435

Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
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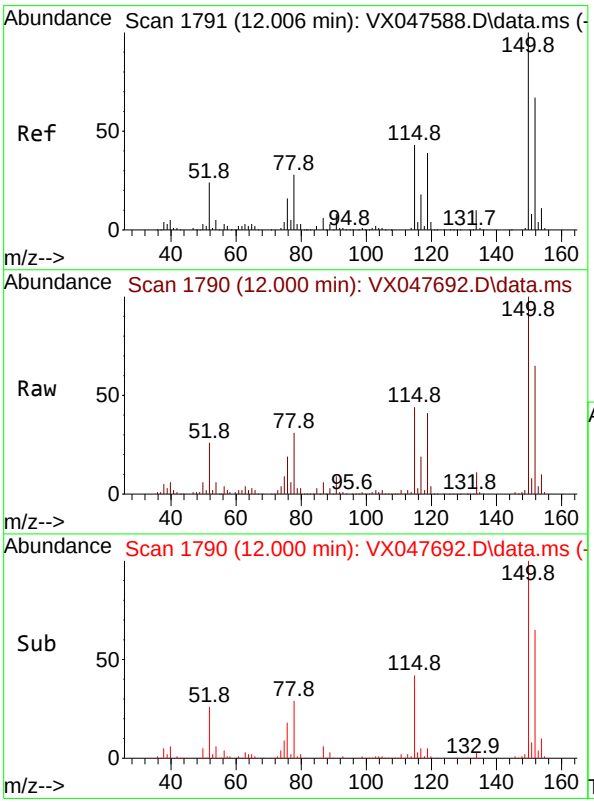
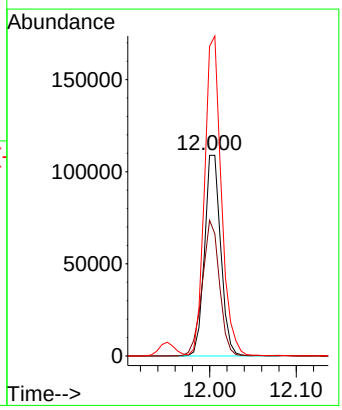
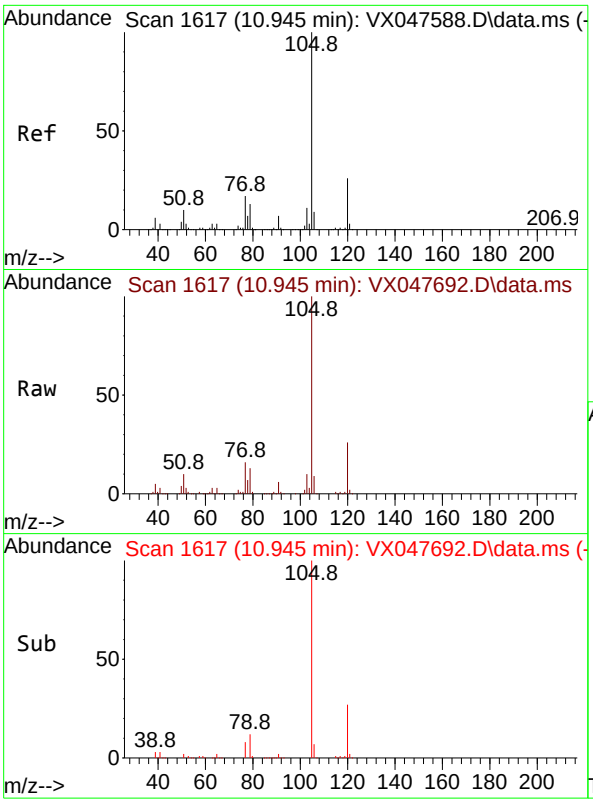


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.000 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:152 Resp: 141526

Ion	Ratio	Lower	Upper
152	100		
115	71.3	44.9	134.5
150	164.5	0.0	352.0

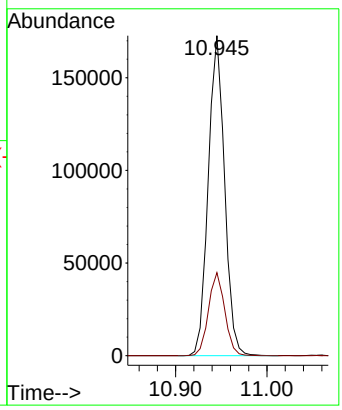




#73
Isopropylbenzene
Concen: 19.897 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:105 Resp: 21408

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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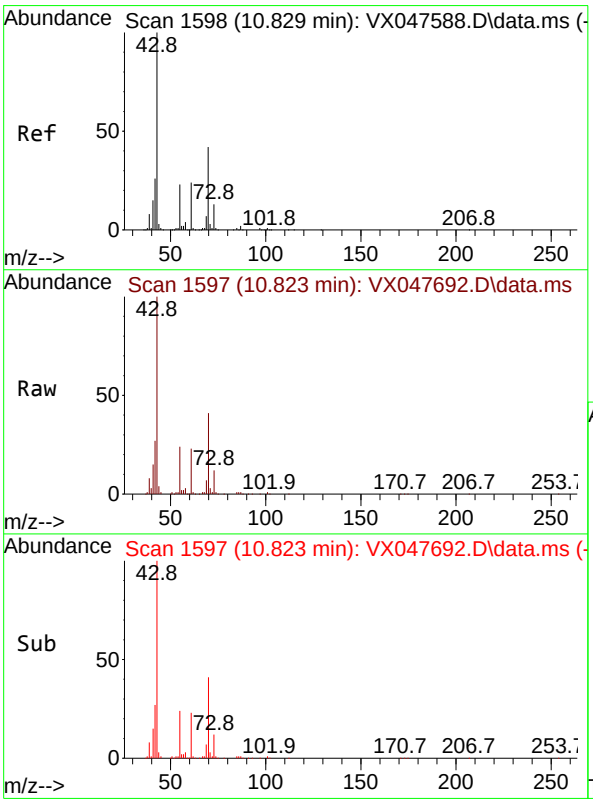
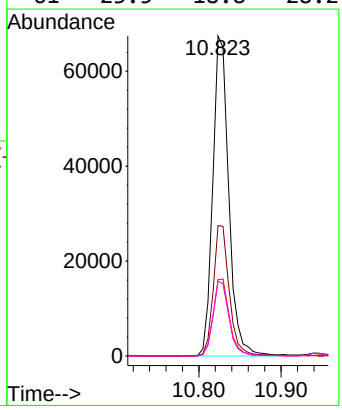
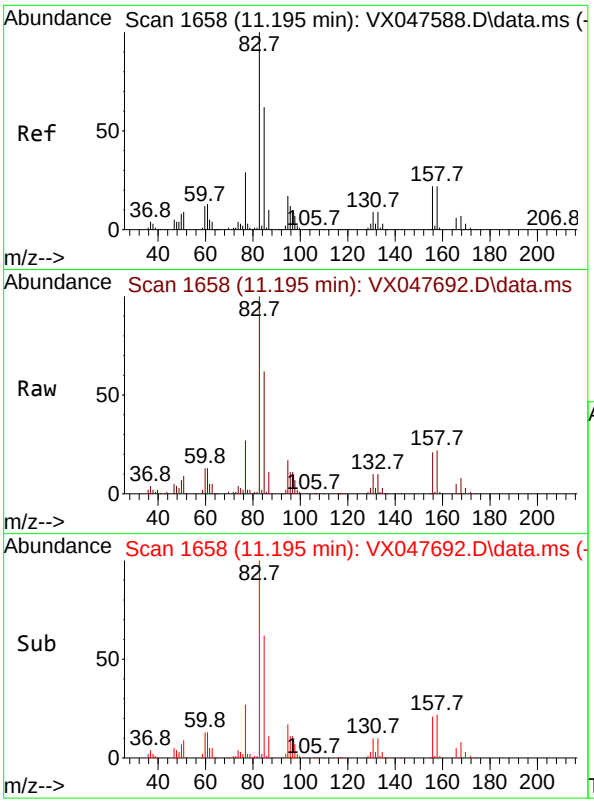


#74
N-amyl acetate
Concen: 18.607 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 91296

Ion	Ratio	Lower	Upper
43	100		
70	40.7	32.0	48.0
55	24.5	18.9	28.3
61	23.5	18.8	28.2

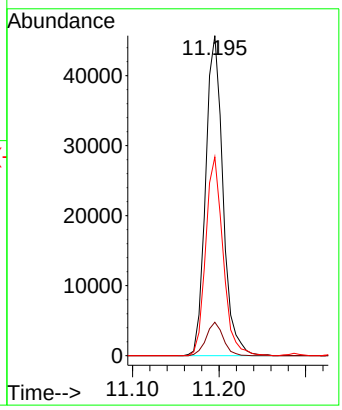




#75
1,1,2,2-Tetrachloroethane
Concen: 19.519 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 83 Resp: 6354

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	62.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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Reviewed By :John Carlone 09/23/2025
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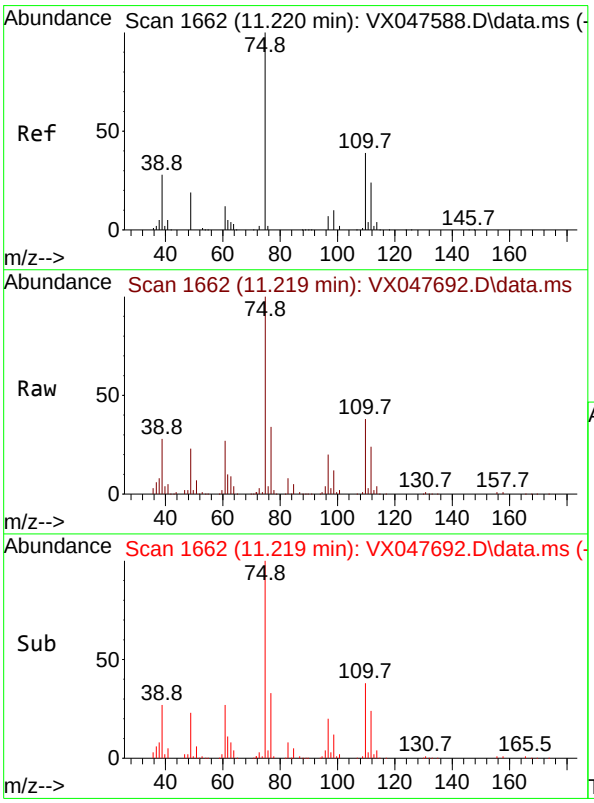
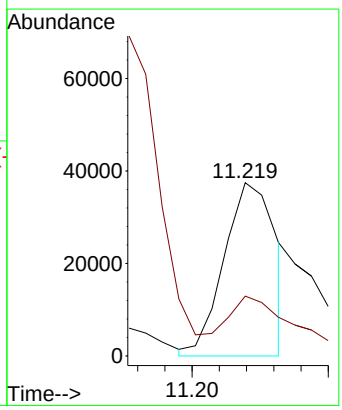
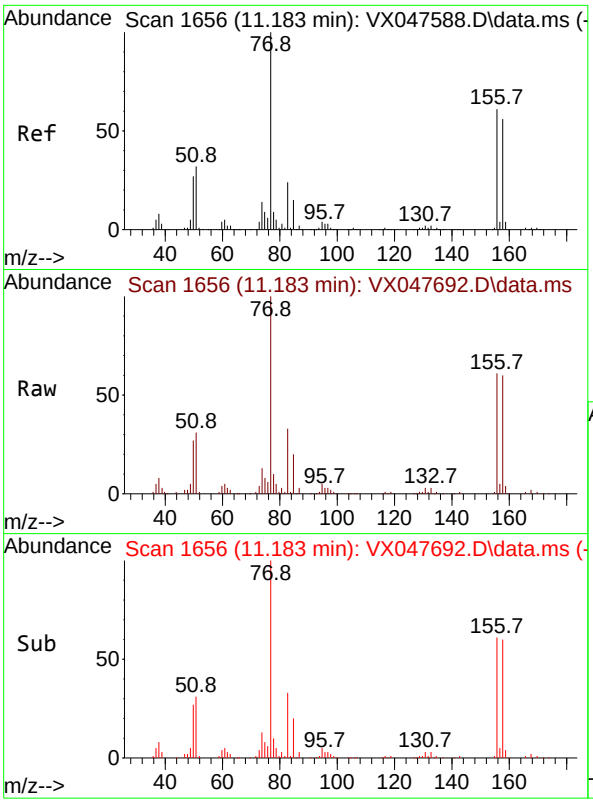


#76
1,2,3-Trichloropropane
Concen: 17.208 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 49310

Ion	Ratio	Lower	Upper
75	100		
77	43.6	18.8	56.4

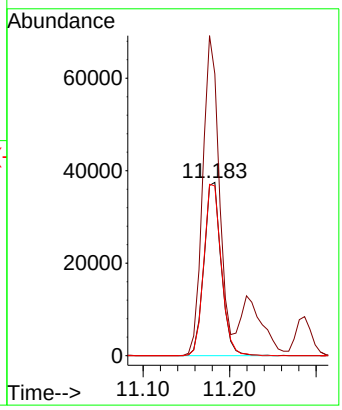




#77
Bromobenzene
Concen: 19.591 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:156 Resp: 5191

Ion	Ratio	Lower	Upper
156	100		
77	176.0	89.7	269.1
158	100.3	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
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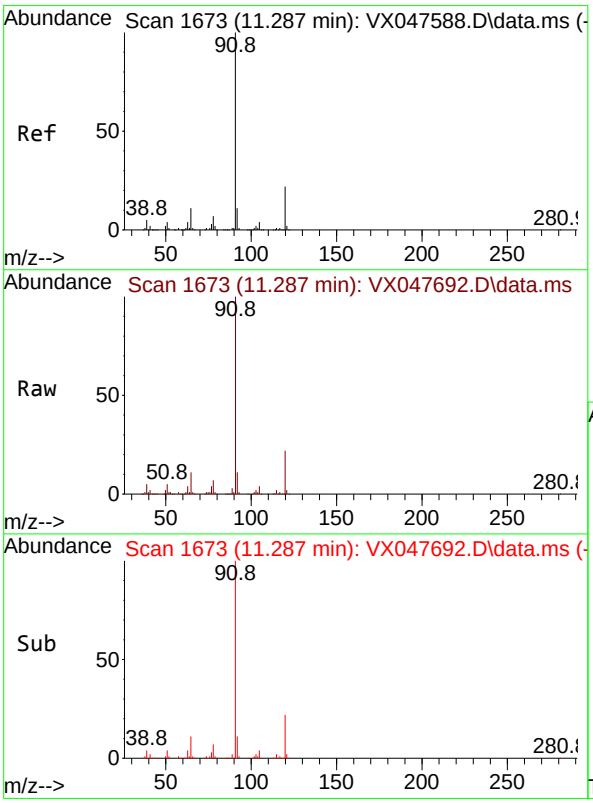
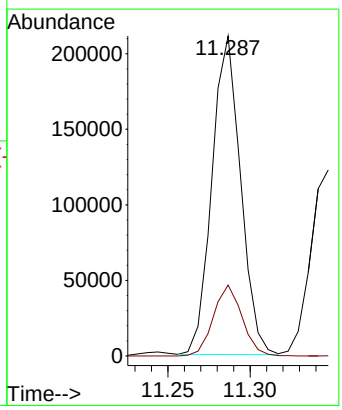
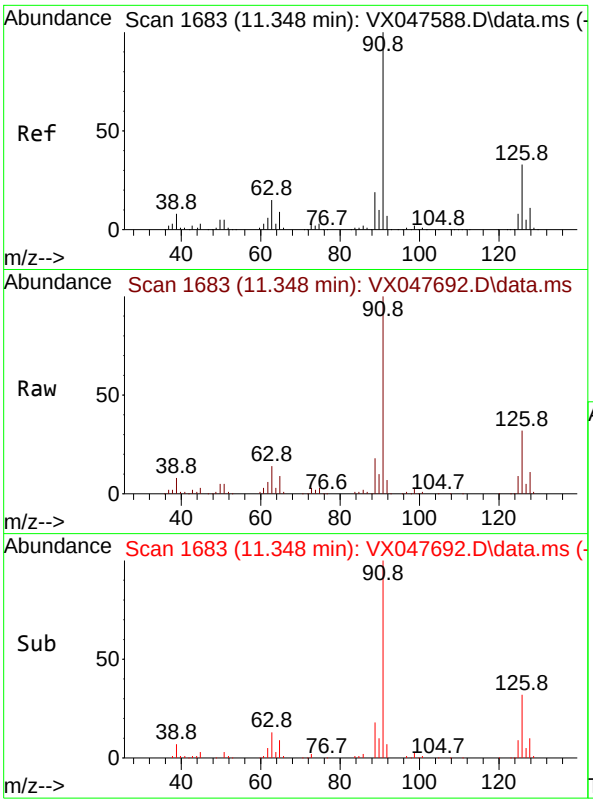


#78
n-propylbenzene
Concen: 20.102 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 91 Resp: 255688

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.1





#79
2-Chlorotoluene
Concen: 20.034 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 91 Resp: 15607

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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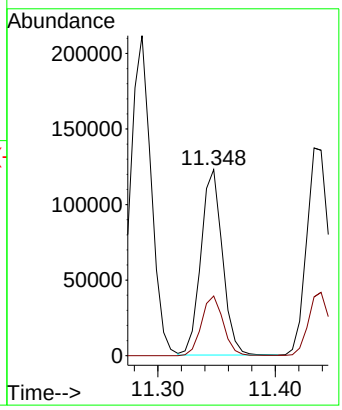
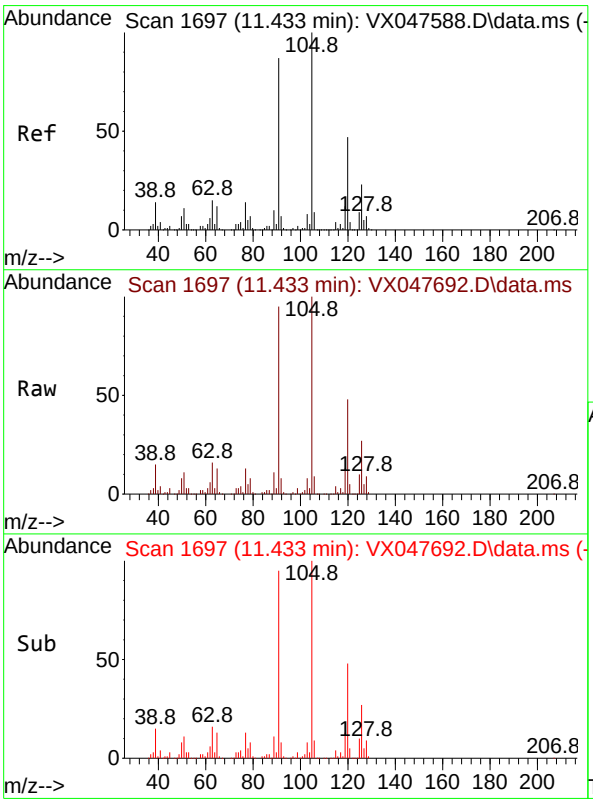
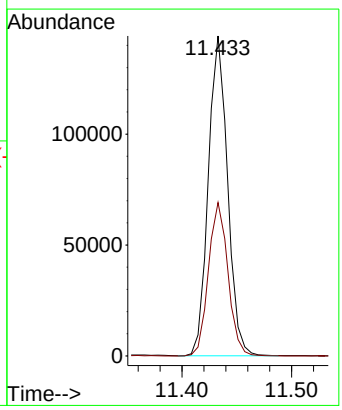


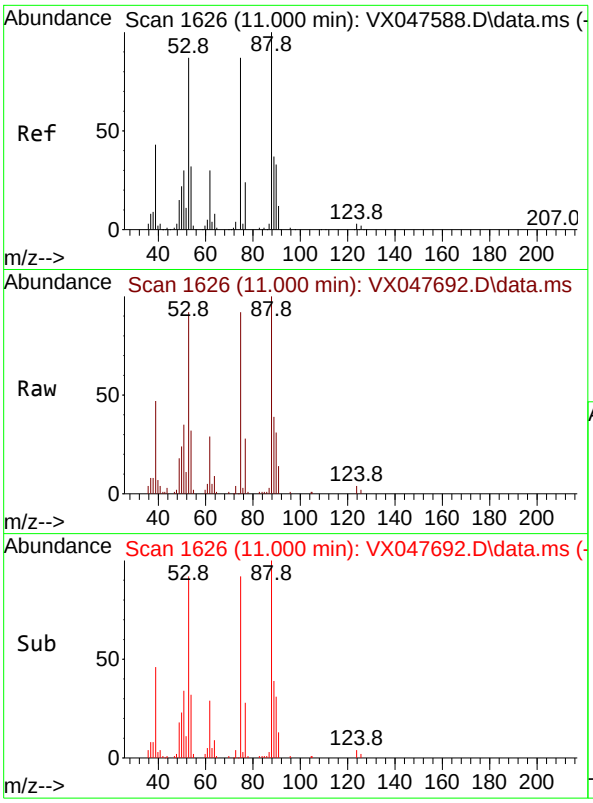


#80
1,3,5-Trimethylbenzene
Concen: 19.903 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:105 Resp: 175941

Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 17.386 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 1953

Ion	Ratio	Lower	Upper
75	100		
53	108.2	83.4	125.2
89	47.2	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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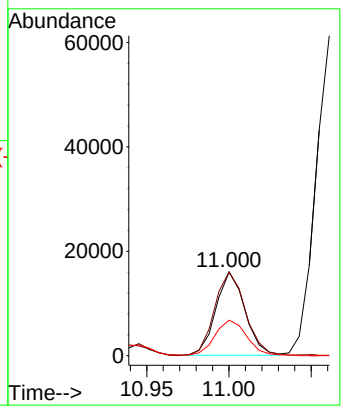
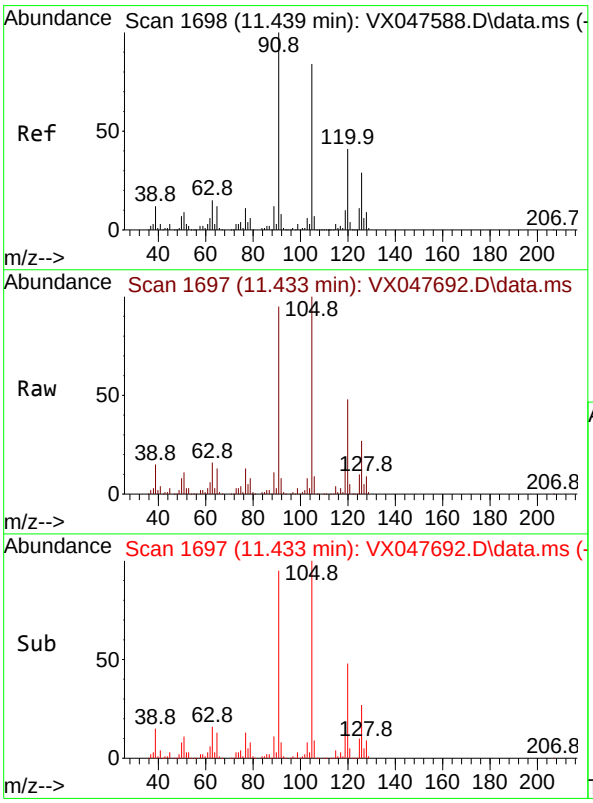
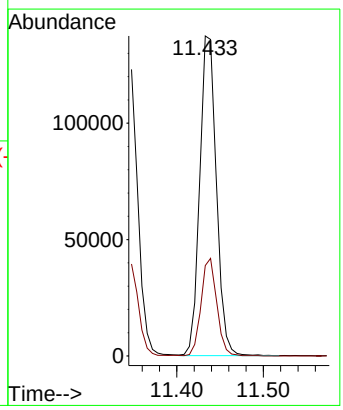


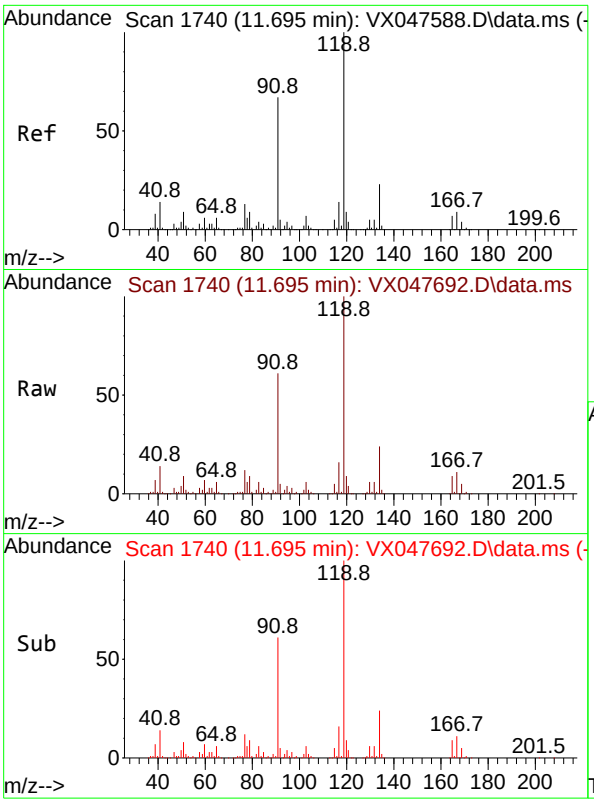


#82
4-Chlorotoluene
Concen: 19.956 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 91 Resp: 183613

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.2	42.6

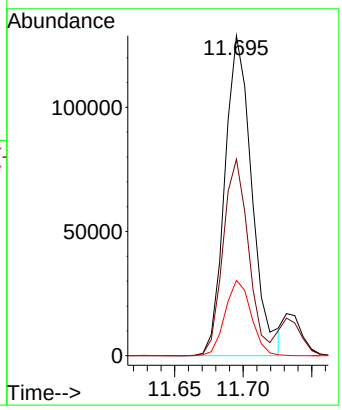




#83
tert-Butylbenzene
Concen: 19.580 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:119 Resp: 17718

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.6	88.8
134	22.6	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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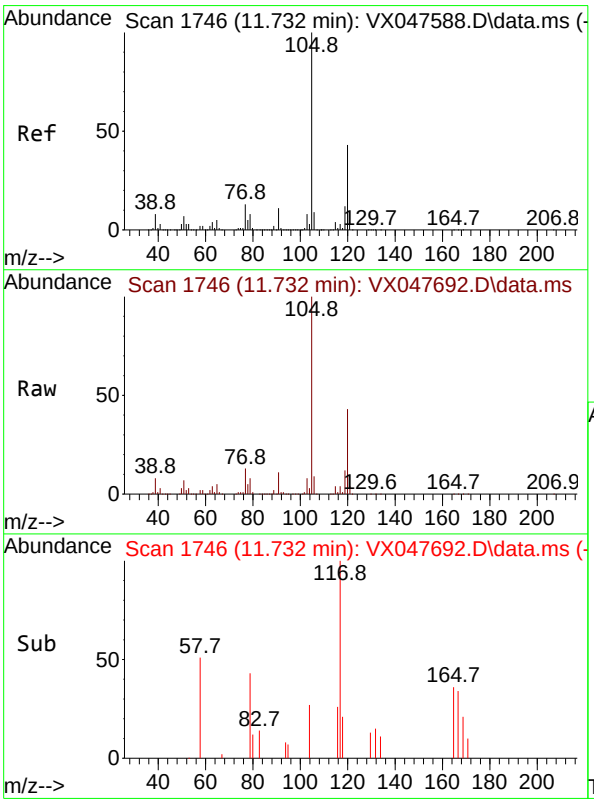
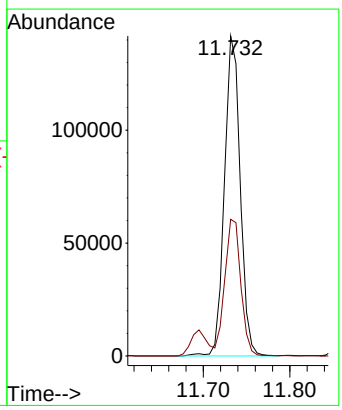
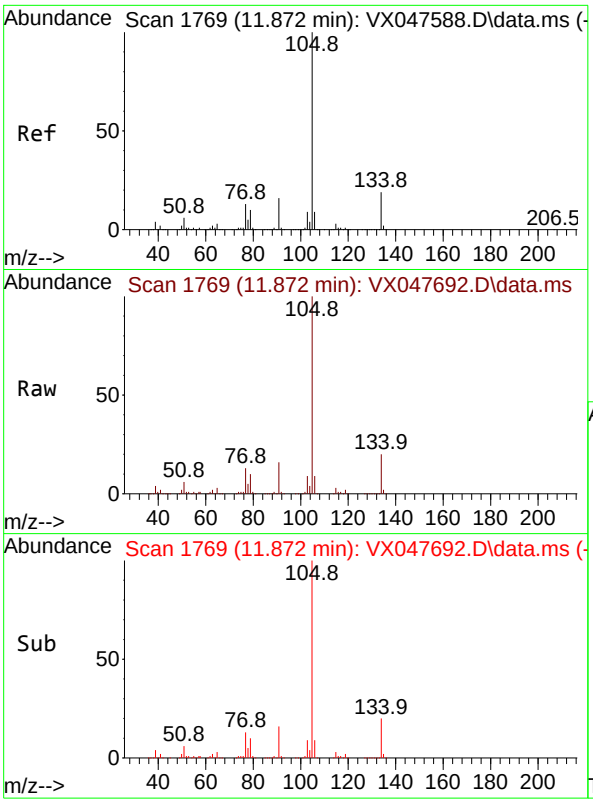


#84
1,2,4-Trimethylbenzene
Concen: 19.993 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:105 Resp: 179182

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1

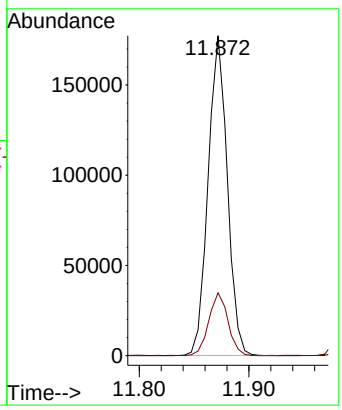




#85
sec-Butylbenzene
Concen: 20.050 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:105 Resp: 21551

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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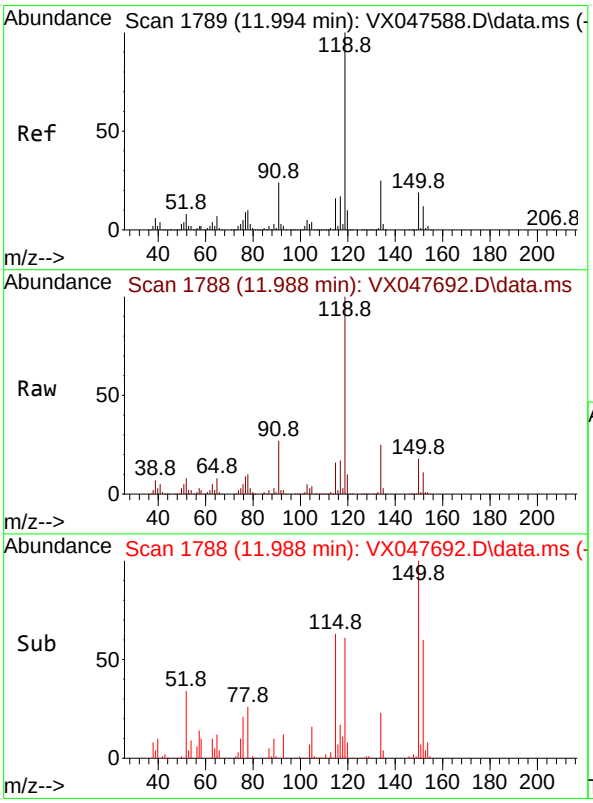
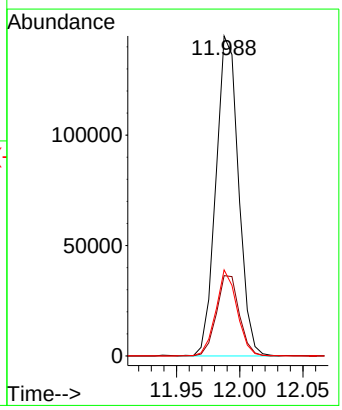
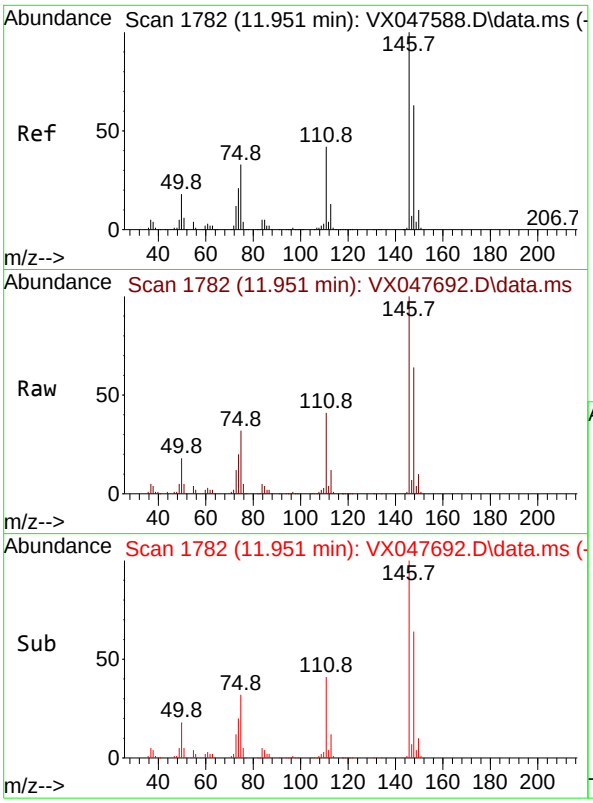


#86
p-Isopropyltoluene
Concen: 19.733 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:119 Resp: 179574

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.8
91	25.3	12.6	37.6

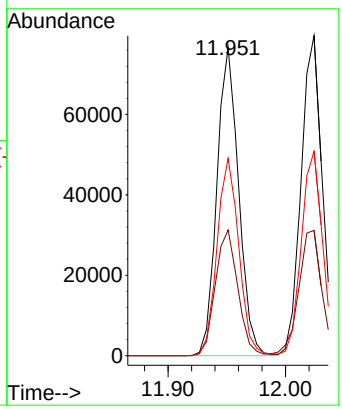




#87
1,3-Dichlorobenzene
Concen: 20.059 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:146 Resp: 9873

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	64.0	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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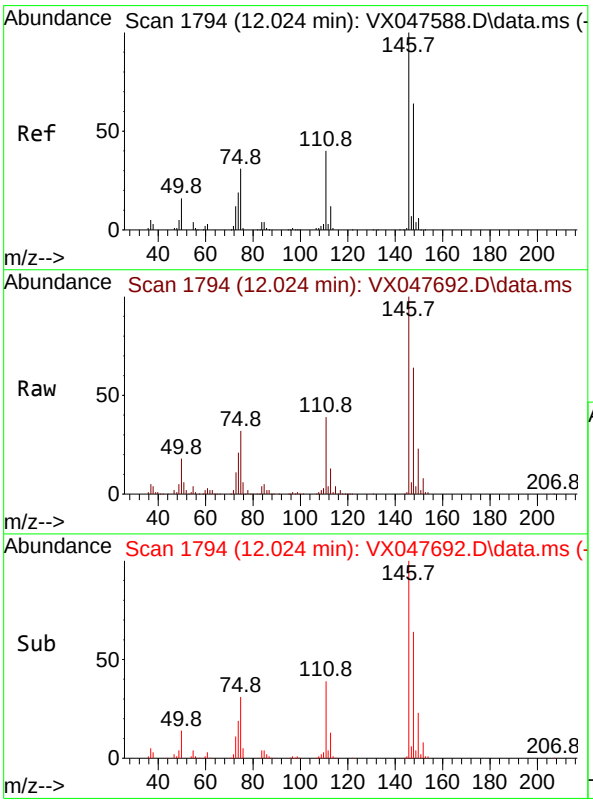
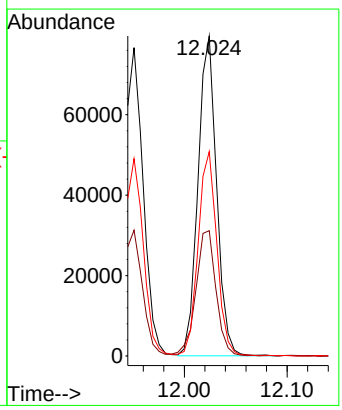
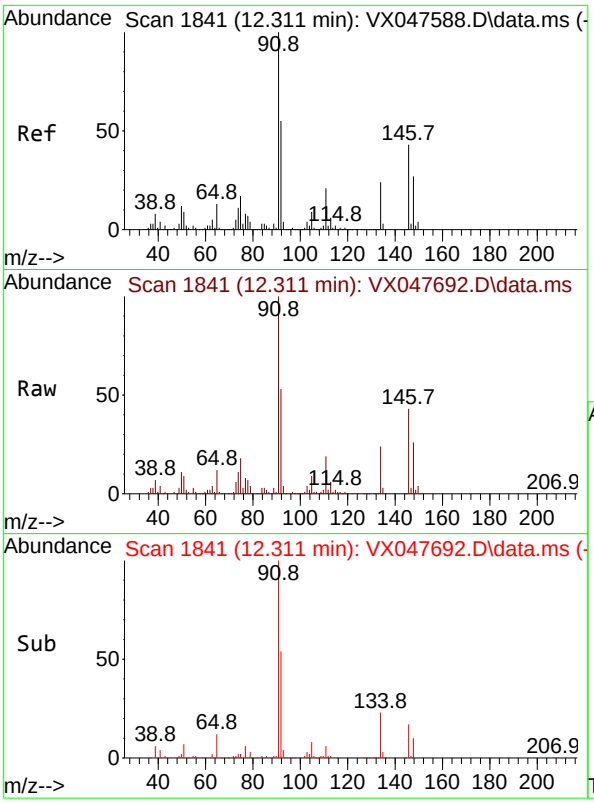


#88
1,4-Dichlorobenzene
Concen: 19.835 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:146 Resp: 100204

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.8	62.4
148	64.3	31.7	95.1

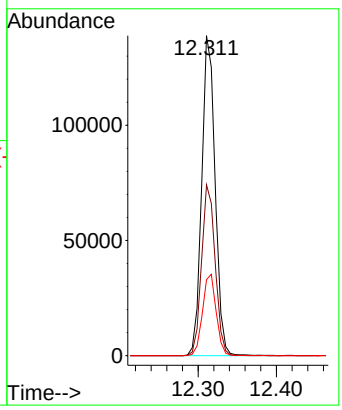




#89
n-Butylbenzene
Concen: 19.598 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 91 Resp: 16502

Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.6	82.7
134	25.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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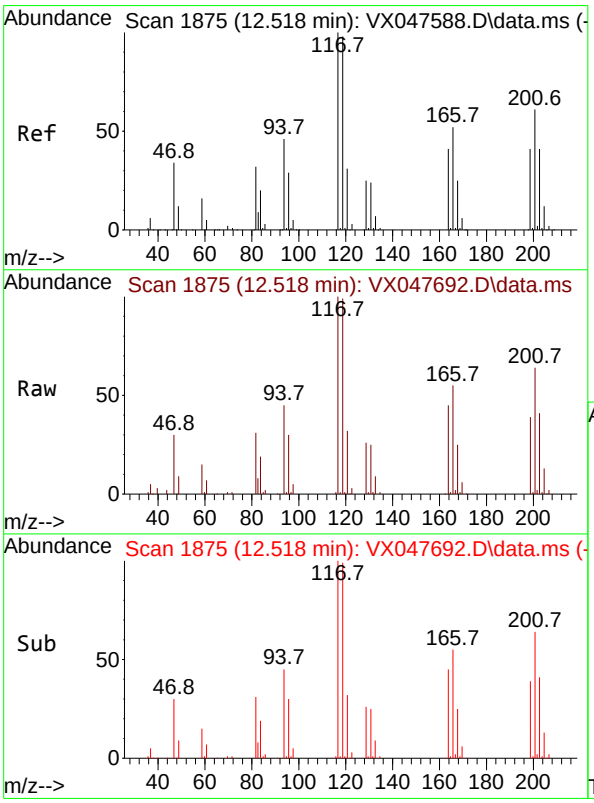
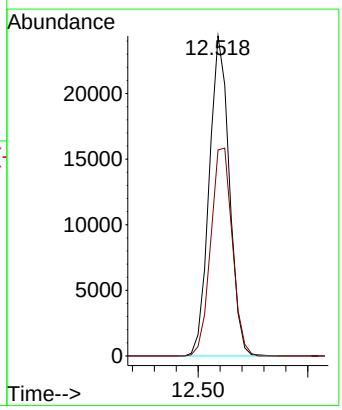
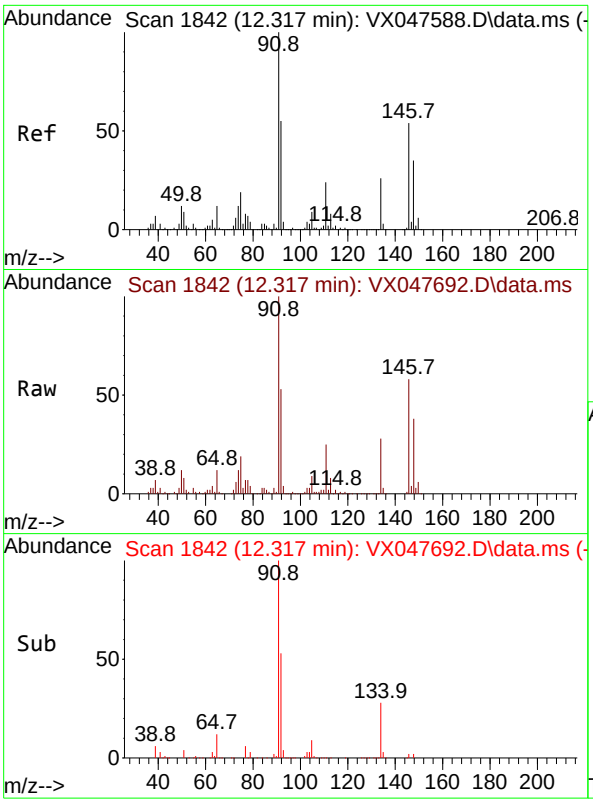


#90
Hexachloroethane
Concen: 19.426 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:117 Resp: 31037

Ion	Ratio	Lower	Upper
117	100		
201	69.8	34.2	102.5

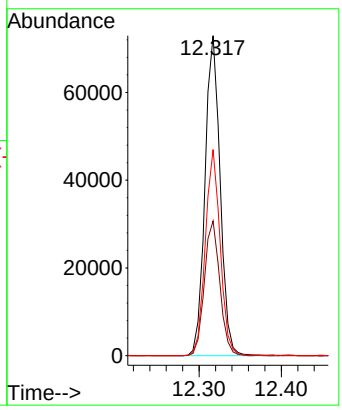




#91
1,2-Dichlorobenzene
Concen: 19.912 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:146 Resp: 9337

Ion	Ratio	Lower	Upper
146	100		
111	42.9	22.2	66.6
148	63.2	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

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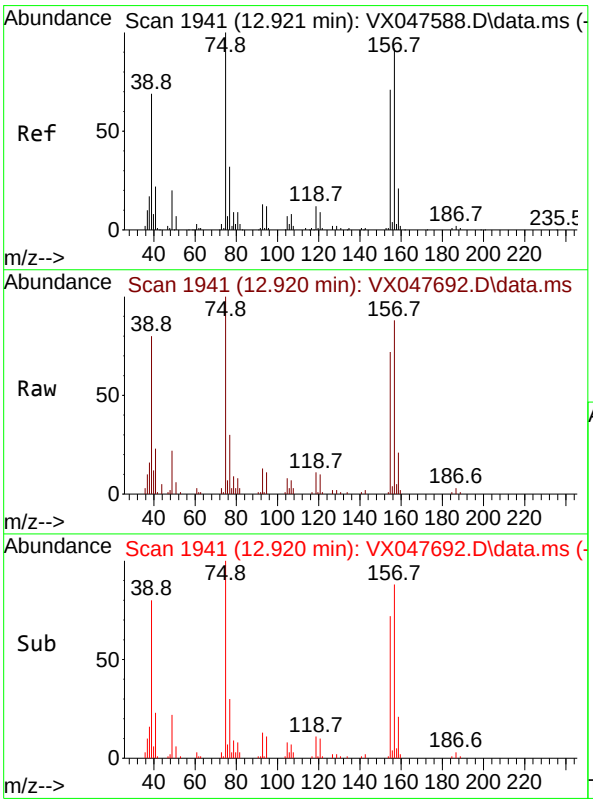
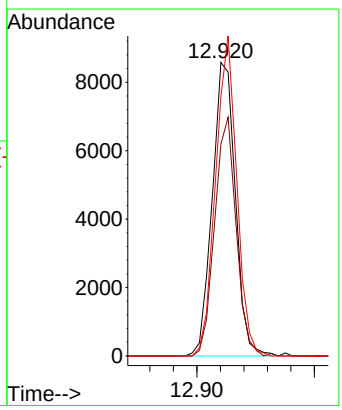
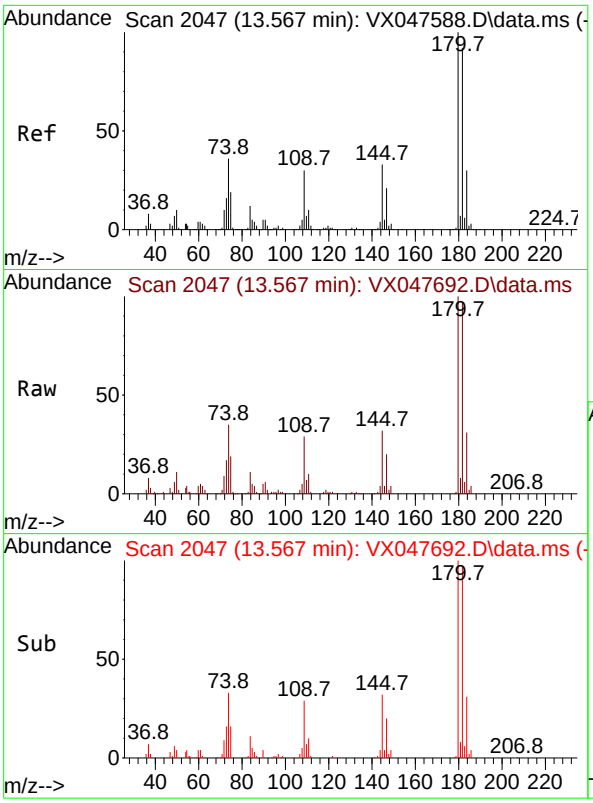


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.764 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 11708

Ion	Ratio	Lower	Upper
75	100		
155	75.8	37.7	113.1
157	99.9	49.8	149.4

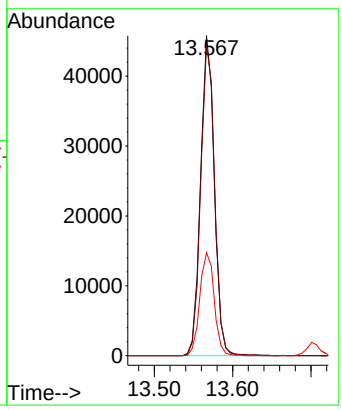




#93
1,2,4-Trichlorobenzene
Concen: 18.272 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:180 Resp: 5568

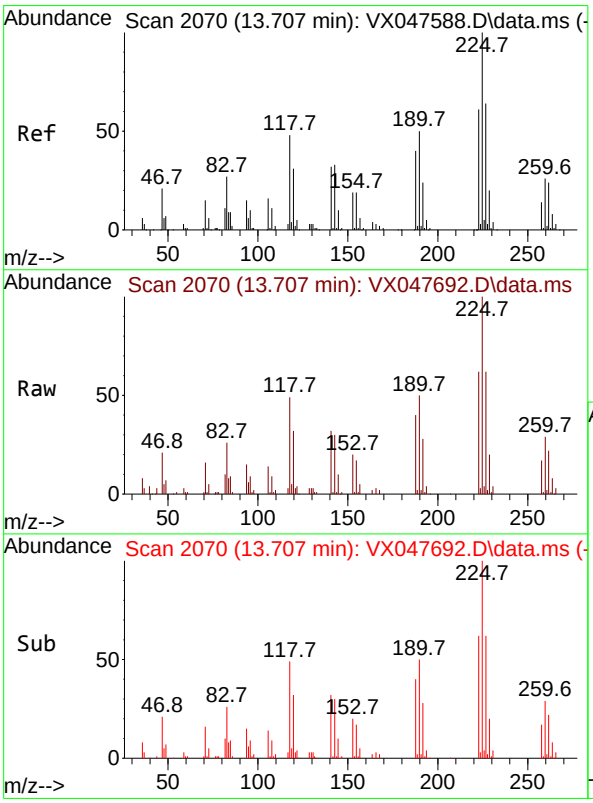
Ion	Ratio	Lower	Upper
180	100		
182	98.3	46.6	139.8
145	33.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Manual Integrations APPROVED

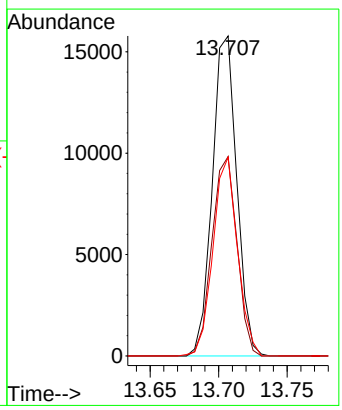
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

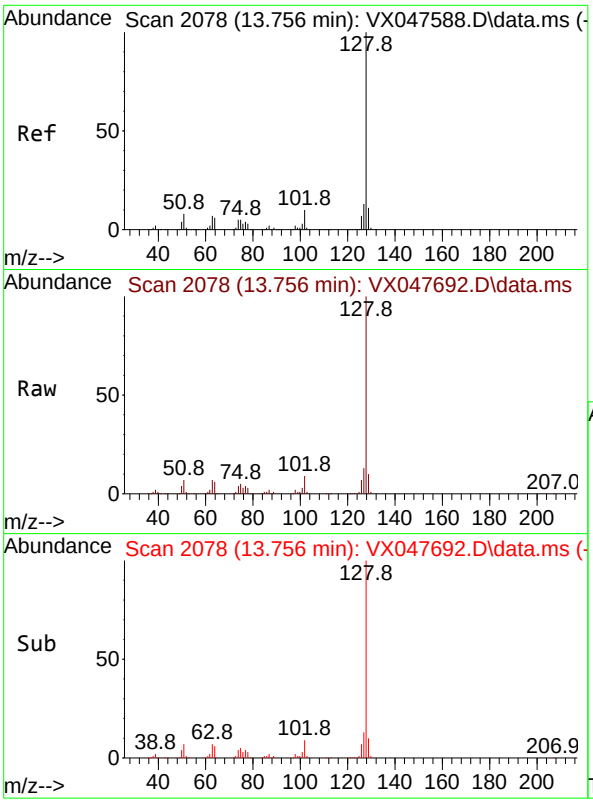


#94
Hexachlorobutadiene
Concen: 18.925 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:225 Resp: 19591

Ion	Ratio	Lower	Upper
225	100		
223	63.6	31.7	95.1
227	62.0	32.0	96.0

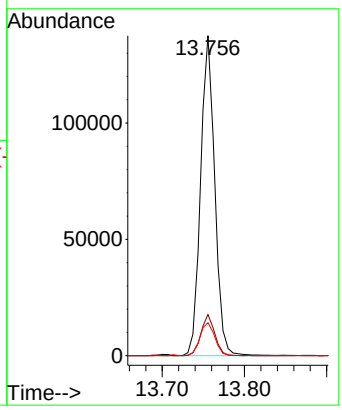




#95
Naphthalene
Concen: 17.732 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:128 Resp: 16456

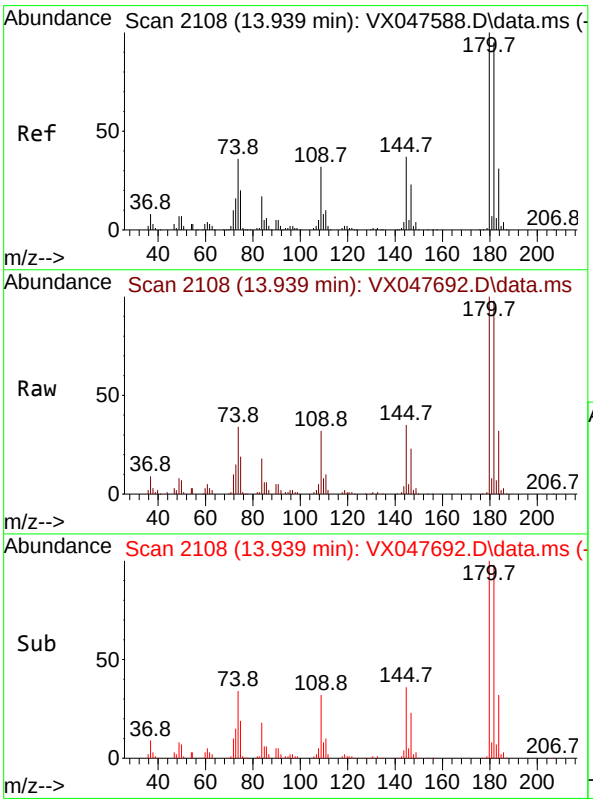
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Manual Integrations
APPROVED

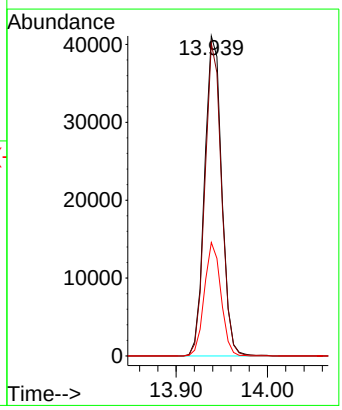
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.711 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:180 Resp: 53045

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.6	142.8
145	34.4	17.9	53.7



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBS02	SDG No.:	Q3097
Lab Sample ID:	VX0923WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047723.D	1	09/23/25 11:15	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.2		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	17.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.4		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	16.5		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	16.6		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.7		0.23	0.75	1.00	ug/L
67-64-1	Acetone	71.7		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.2		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	16.3		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	16.6		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	16.4		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.0		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	16.5		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	16.7		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	78.7		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	15.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	16.2		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	16.8		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	16.6		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	16.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	17.3		0.16	0.50	1.00	ug/L
71-43-2	Benzene	16.7		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	16.5		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	17.5		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	16.8		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	16.6		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	86.0		0.68	2.50	5.00	ug/L
108-88-3	Toluene	16.9		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBS02	SDG No.:	Q3097
Lab Sample ID:	VX0923WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047723.D	1	09/23/25 11:15	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	16.3		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	16.8		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.2		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	83.0		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	17.2		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	17.4		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	17.1		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	16.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	16.7		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	33.9		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	16.9		0.12	0.50	1.00	ug/L
100-42-5	Styrene	16.6		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	16.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	16.4		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	16.6		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	16.9		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.6		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	16.7		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.2		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.2		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.4		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.0		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	46.4		89 - 112		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	182000	5.532				
540-36-3	1,4-Difluorobenzene	323000	6.745				
3114-55-4	Chlorobenzene-d5	290000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	142000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBS02	SDG No.:	Q3097
Lab Sample ID:	VX0923WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047723.D	1	09/23/25 11:15	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	181787	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	322664	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	289792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141661	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	130163	44.983	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 89.960%			
35) Dibromofluoromethane	5.367	113	99865	46.149	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.300%			
50) Toluene-d8	8.635	98	347178	46.366	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.740%			
62) 4-Bromofluorobenzene	11.061	95	132914	46.772	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	36156	19.207	ug/l	99
3) Chloromethane	1.301	50	43445	17.560	ug/l	96
4) Vinyl Chloride	1.380	62	42062	17.368	ug/l	99
5) Bromomethane	1.618	94	28441	18.520	ug/l	96
6) Chloroethane	1.697	64	26753	16.528	ug/l	98
7) Trichlorofluoromethane	1.898	101	59843	16.642	ug/l	98
8) Diethyl Ether	2.136	74	24021	16.330	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	35974	17.109	ug/l	99
10) Methyl Iodide	2.453	142	51945	15.841	ug/l	99
11) Tert butyl alcohol	2.934	59	23851	74.010	ug/l	99
12) 1,1-Dichloroethene	2.325	96	36148	16.737	ug/l	94
13) Acrolein	2.233	56	26313	88.603	ug/l	100
14) Allyl chloride	2.666	41	70142	15.738	ug/l	98
15) Acrylonitrile	3.056	53	100750	84.401	ug/l	99
16) Acetone	2.374	43	90216	71.706	ug/l	98
17) Carbon Disulfide	2.514	76	101957	17.244	ug/l	99
18) Methyl Acetate	2.697	43	46539	16.621	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	128594	16.310	ug/l	98
20) Methylene Chloride	2.788	84	43710	16.413	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	39414	16.950	ug/l	96
22) Diisopropyl ether	3.745	45	144354	16.712	ug/l #	79
23) Vinyl Acetate	3.709	43	575126	83.195	ug/l	99
24) 1,1-Dichloroethane	3.599	63	75728	16.495	ug/l	99
25) 2-Butanone	4.538	43	123517	78.705	ug/l	99
26) 2,2-Dichloropropane	4.465	77	60715	15.910	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	46069	16.177	ug/l	97
28) Bromochloromethane	4.885	49	33685	16.807	ug/l	99
29) Tetrahydrofuran	4.995	42	79140	83.826	ug/l	98
30) Chloroform	5.074	83	77095	16.618	ug/l	98
31) Cyclohexane	5.458	56	63808	16.688	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	64618	16.421	ug/l	97
36) 1,1-Dichloropropene	5.672	75	53594	16.949	ug/l	99
37) Ethyl Acetate	4.696	43	53300	15.743	ug/l	99
38) Carbon Tetrachloride	5.666	117	54702	15.922	ug/l	99
39) Methylcyclohexane	7.360	83	62254	17.344	ug/l	97
40) Benzene	6.025	78	160358	16.697	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	30351	17.365	ug/l		96
42) 1,2-Dichloroethane	6.068	62	60128	16.455	ug/l		98
43) Isopropyl Acetate	6.318	43	90880	16.367	ug/l		99
44) Trichloroethene	7.111	130	40550	17.464	ug/l		95
45) 1,2-Dichloropropane	7.409	63	41341	16.811	ug/l		99
46) Dibromomethane	7.562	93	29969	16.746	ug/l		97
47) Bromodichloromethane	7.806	83	61218	16.577	ug/l		100
48) Methyl methacrylate	7.677	41	44713	16.166	ug/l		98
49) 1,4-Dioxane	7.647	88	10693	382.549	ug/l		94
51) 4-Methyl-2-Pentanone	8.555	43	264665	85.968	ug/l		99
52) Toluene	8.702	92	99779	16.863	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	61393	16.298	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	67677	16.810	ug/l		97
55) 1,1,2-Trichloroethane	9.135	97	39130	17.151	ug/l		99
56) Ethyl methacrylate	9.098	69	60408	16.859	ug/l		98
57) 1,3-Dichloropropane	9.293	76	68685	17.525	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	143660	91.195	ug/l		100
59) 2-Hexanone	9.415	43	183521	83.000	ug/l		99
60) Dibromochloromethane	9.506	129	45346	17.249	ug/l		100
61) 1,2-Dibromoethane	9.592	107	40518	17.435	ug/l		99
64) Tetrachloroethene	9.256	164	32372	17.136	ug/l		98
65) Chlorobenzene	10.061	112	109903	16.694	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.147	131	37383	16.455	ug/l		97
67) Ethyl Benzene	10.177	91	189524	16.684	ug/l		98
68) m/p-Xylenes	10.287	106	143444	33.927	ug/l		100
69) o-Xylene	10.622	106	68954	16.861	ug/l		99
70) Styrene	10.640	104	118603	16.552	ug/l		99
71) Bromoform	10.781	173	28237	16.646	ug/l	#	99
73) Isopropylbenzene	10.945	105	177153	16.449	ug/l		99
74) N-amyl acetate	10.823	43	80035	16.296	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	54058	16.590	ug/l		97
76) 1,2,3-Trichloropropane	11.220	75	49816m	17.368	ug/l		
77) Bromobenzene	11.183	156	43202	16.287	ug/l		98
78) n-propylbenzene	11.287	91	213079	16.736	ug/l		100
79) 2-Chlorotoluene	11.348	91	128239	16.446	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	147832	16.707	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	16574	14.736	ug/l		99
82) 4-Chlorotoluene	11.439	91	153584	16.677	ug/l		100
83) tert-Butylbenzene	11.695	119	149430	16.497	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	150232	16.747	ug/l		100
85) sec-Butylbenzene	11.872	105	181026	16.825	ug/l		100
86) p-Isopropyltoluene	11.994	119	154052	16.913	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	83142	16.875	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	83968	16.605	ug/l		99
89) n-Butylbenzene	12.317	91	144464	17.140	ug/l		99
90) Hexachloroethane	12.518	117	25557	15.981	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	78309	16.683	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	10024	15.194	ug/l		95
93) 1,2,4-Trichlorobenzene	13.567	180	49366	16.182	ug/l		99
94) Hexachlorobutadiene	13.707	225	17786	17.165	ug/l		98
95) Naphthalene	13.756	128	146235	15.742	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	46461	16.373	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
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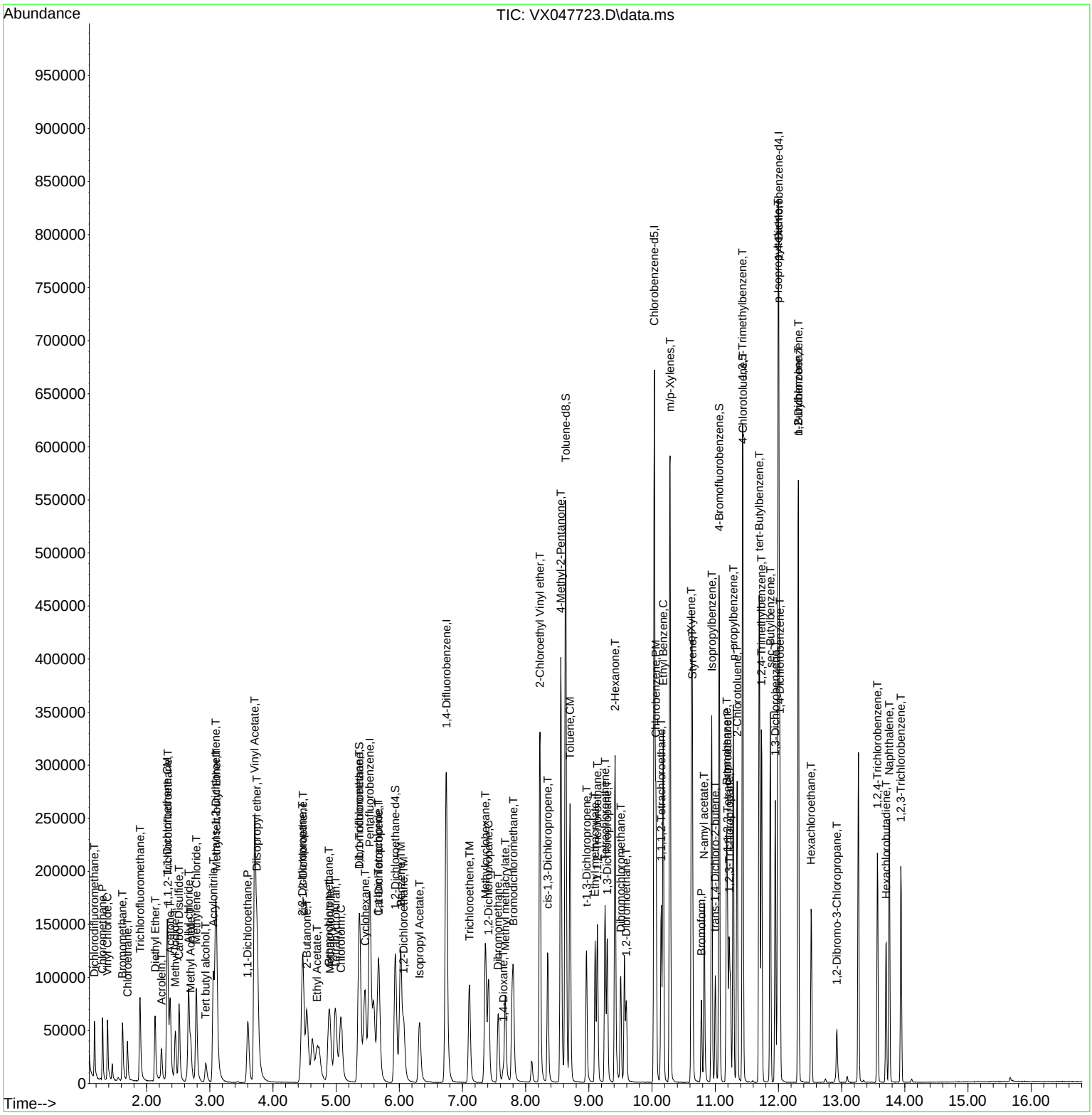
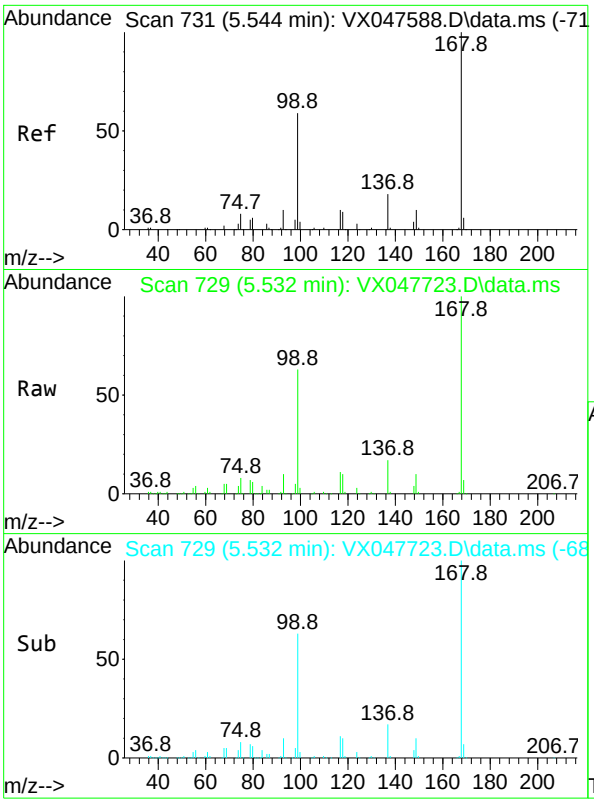
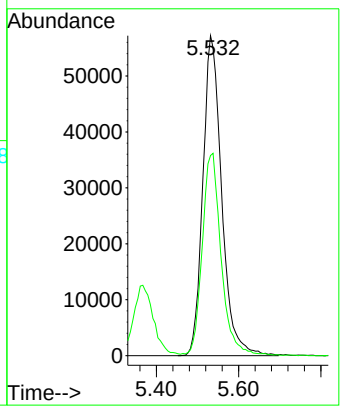




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:168 Resp: 18178

Ion	Ratio	Lower	Upper
168	100		
99	62.3	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
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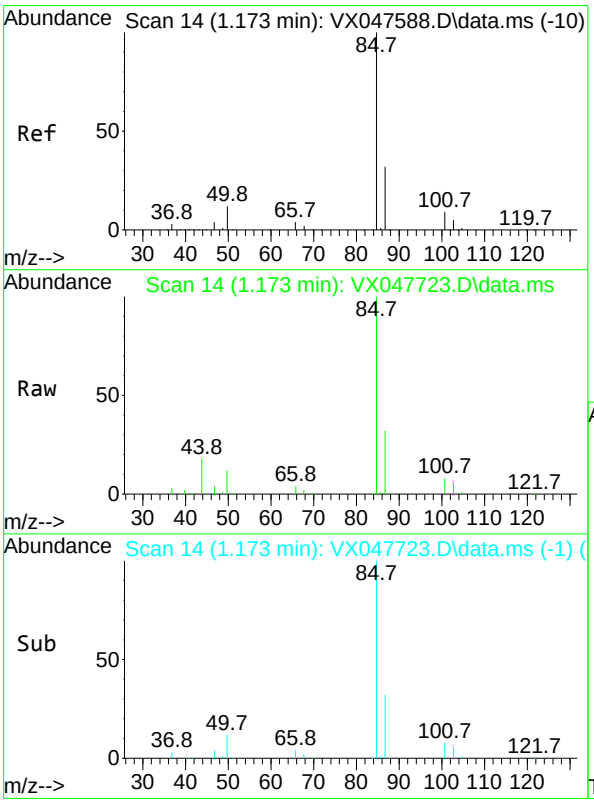
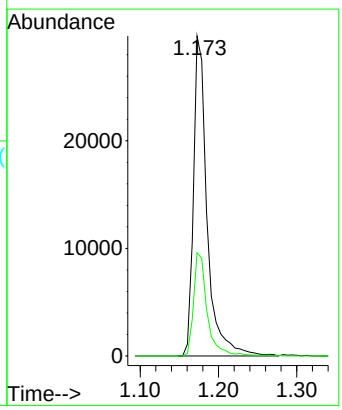
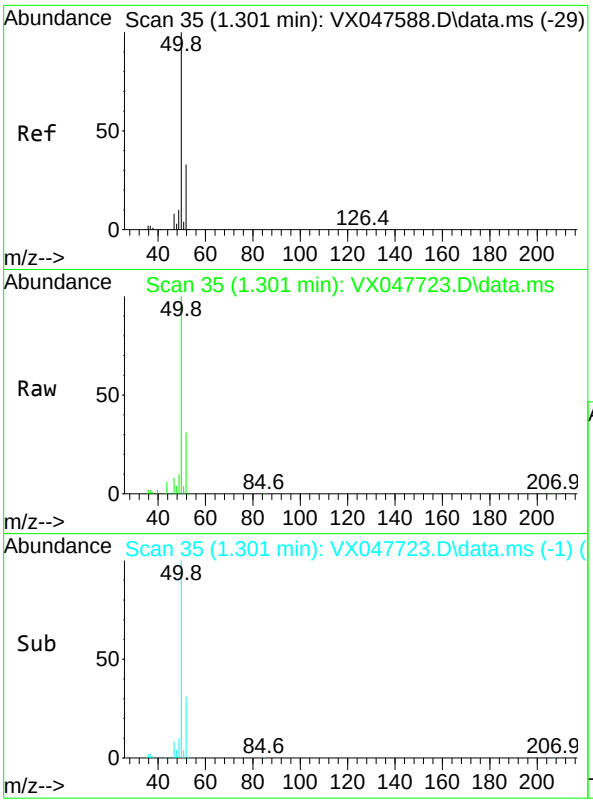


#2
Dichlorodifluoromethane
Concen: 19.207 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 85 Resp: 36156

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.8	47.3

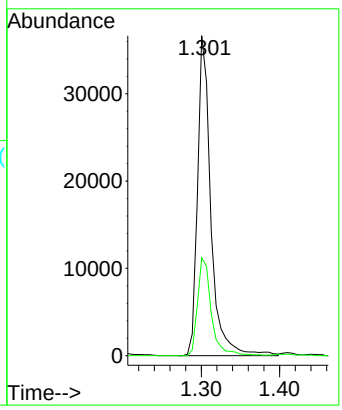




#3
Chloromethane
Concen: 17.560 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 50 Resp: 4344

Ion	Ratio	Lower	Upper
50	100		
52	30.6	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
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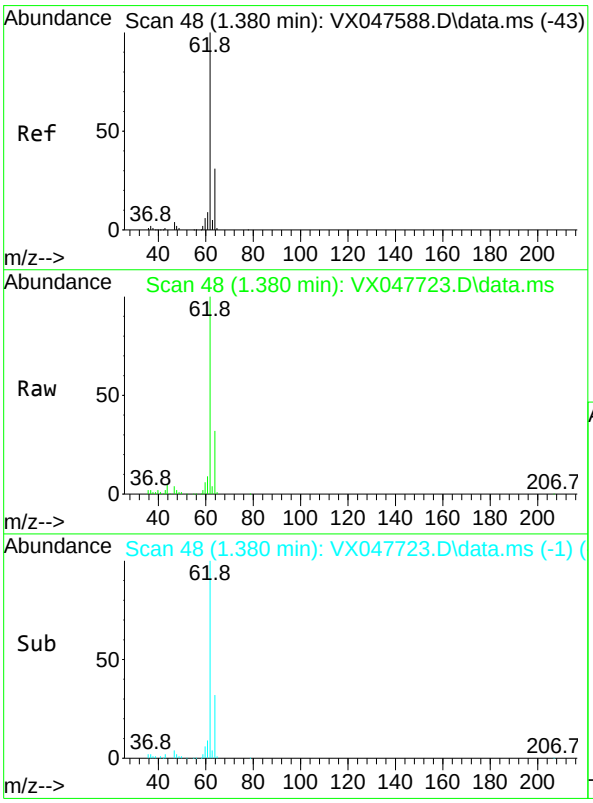
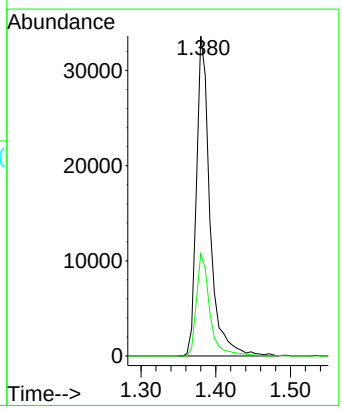
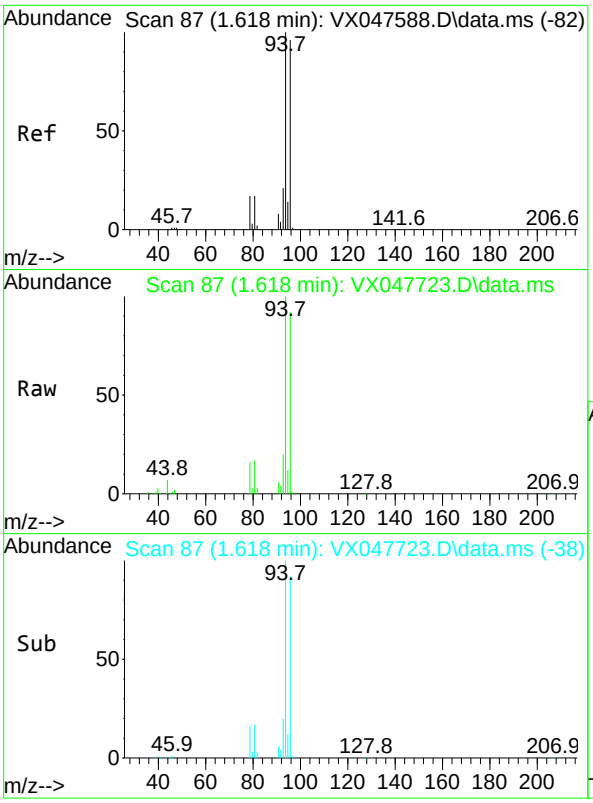


#4
Vinyl Chloride
Concen: 17.368 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 62 Resp: 42062

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.9	37.3

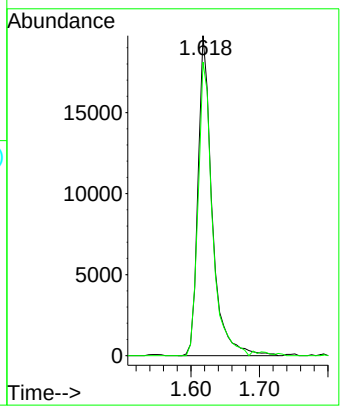




#5
Bromomethane
Concen: 18.520 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 94 Resp: 2844

Ion	Ratio	Lower	Upper
94	100		
96	91.8	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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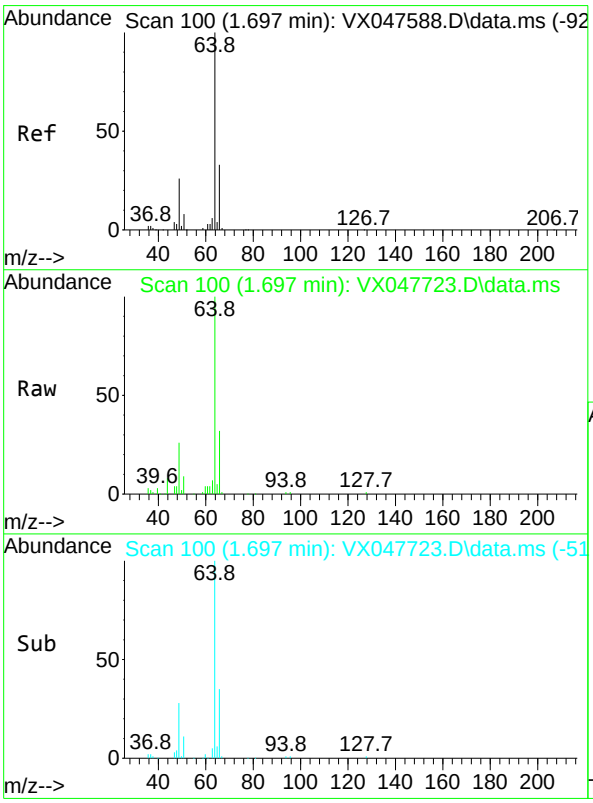
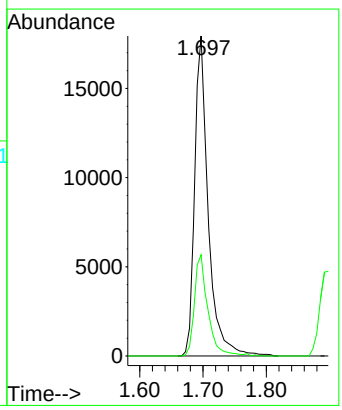
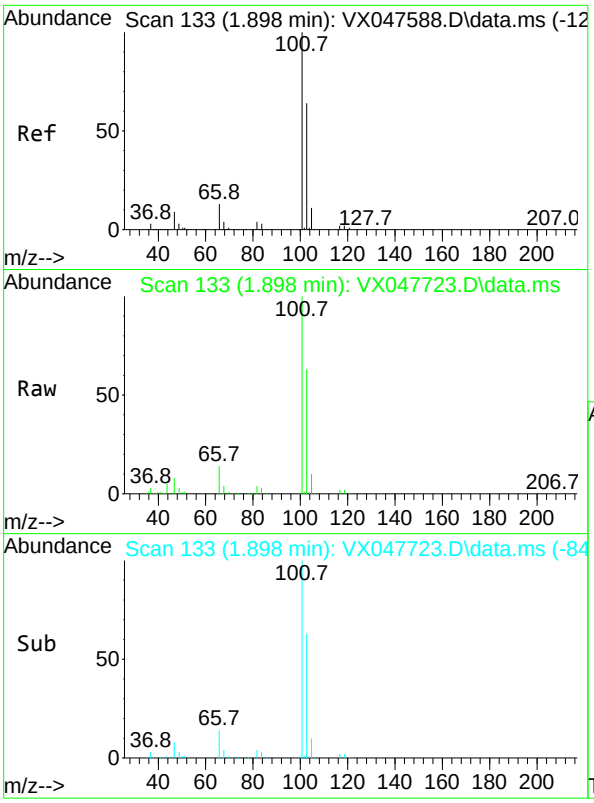


#6
Chloroethane
Concen: 16.528 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 64 Resp: 26753

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.1	39.1

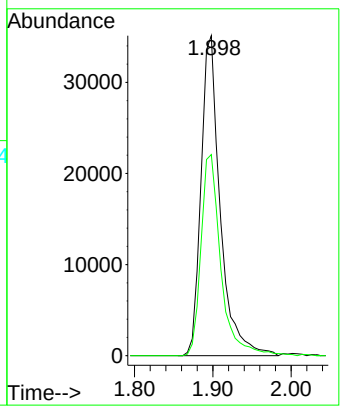




#7
Trichlorofluoromethane
Concen: 16.642 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:101 Resp: 5984

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
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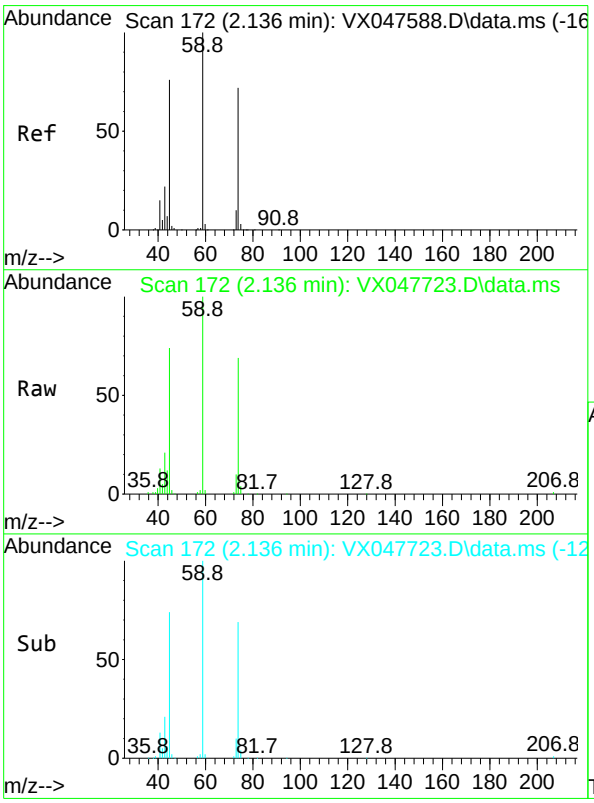
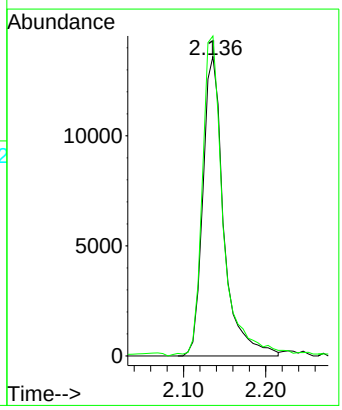
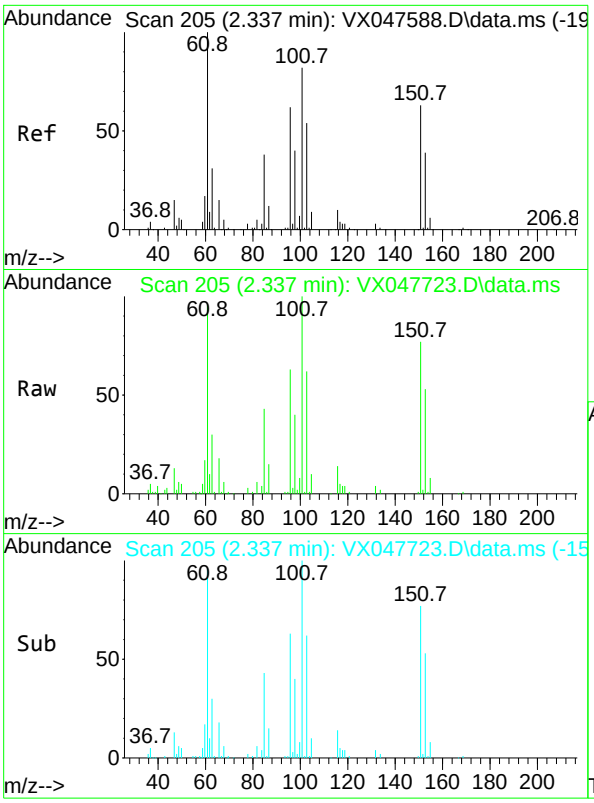


#8
Diethyl Ether
Concen: 16.330 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 74 Resp: 24021

Ion	Ratio	Lower	Upper
74	100		
45	108.1	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.109 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:101 Resp: 3597

Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	75.1	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
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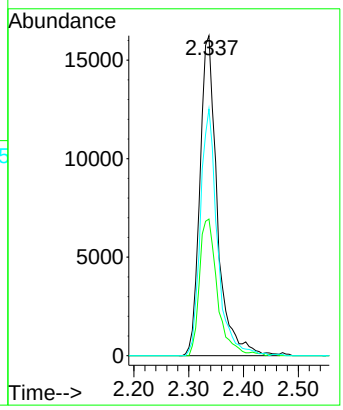
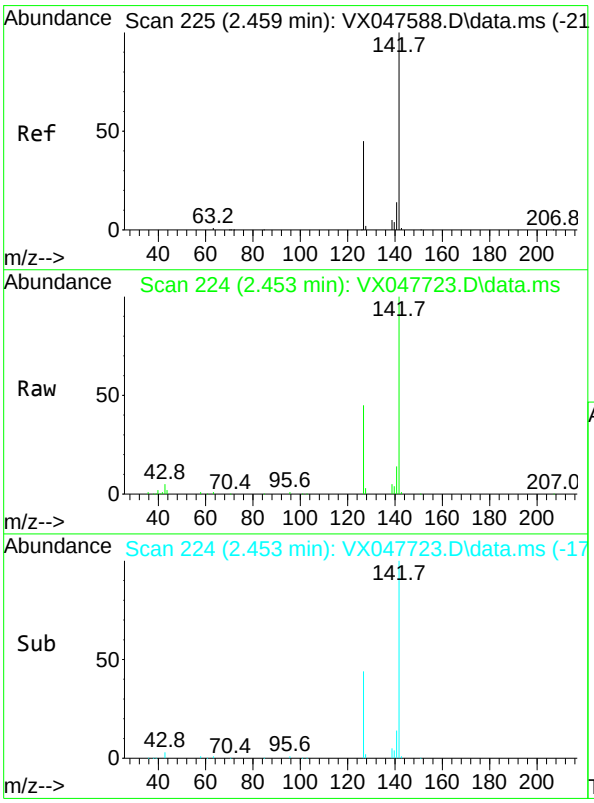
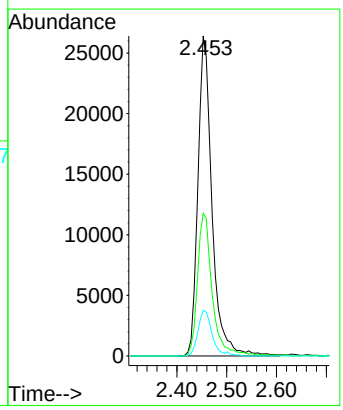


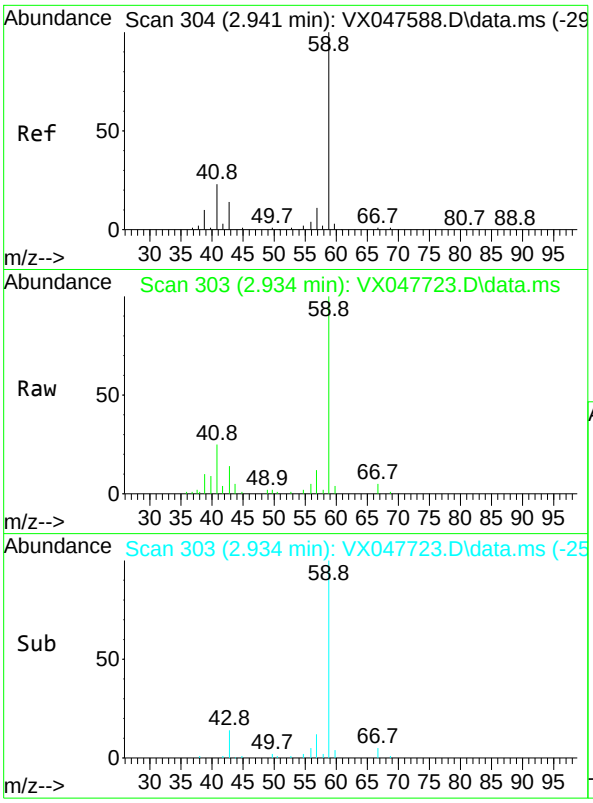


#10
Methyl Iodide
Concen: 15.841 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:142 Resp: 51945

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.2	55.8
141	14.3	11.4	17.0

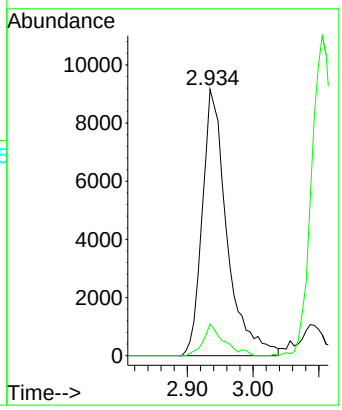




#11
Tert butyl alcohol
Concen: 74.010 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 59 Resp: 2385

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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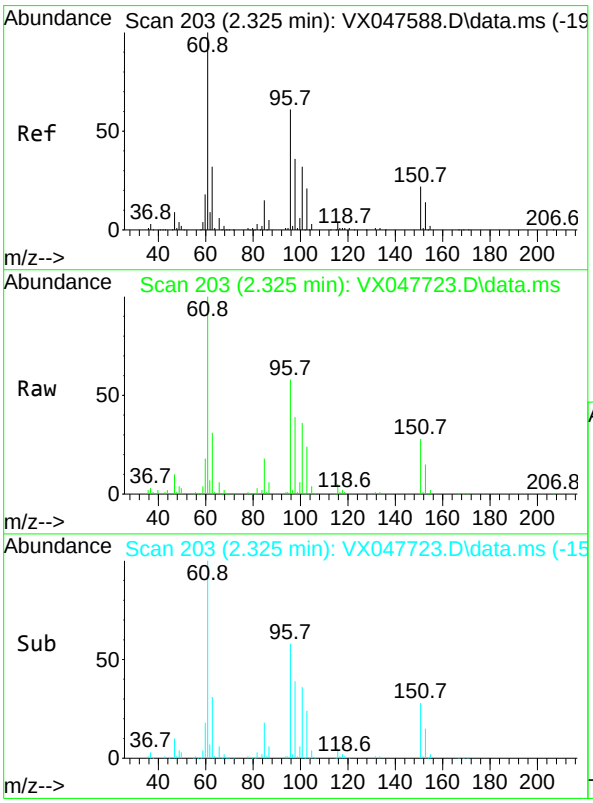
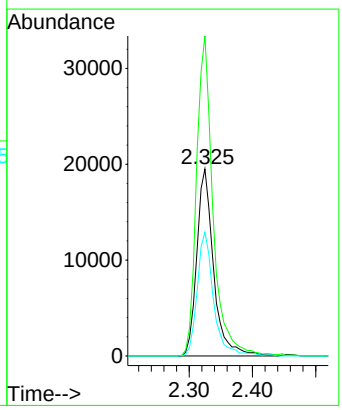
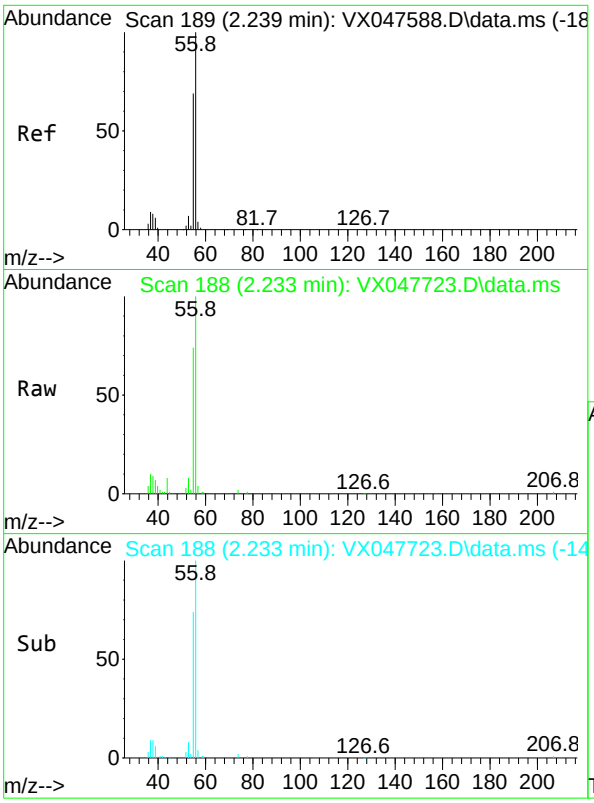


#12
1,1-Dichloroethene
Concen: 16.737 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 96 Resp: 36148

Ion	Ratio	Lower	Upper
96	100		
61	171.1	131.0	196.6
98	66.2	47.7	71.5

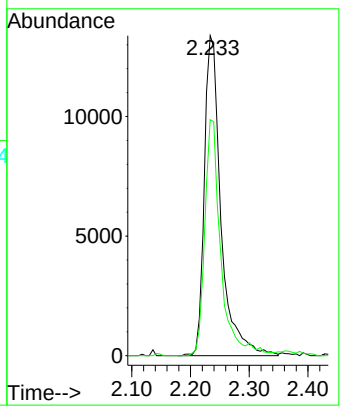




#13
Acrolein
Concen: 88.603 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 56 Resp: 2631

Ion	Ratio	Lower	Upper
56	100		
55	71.4	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
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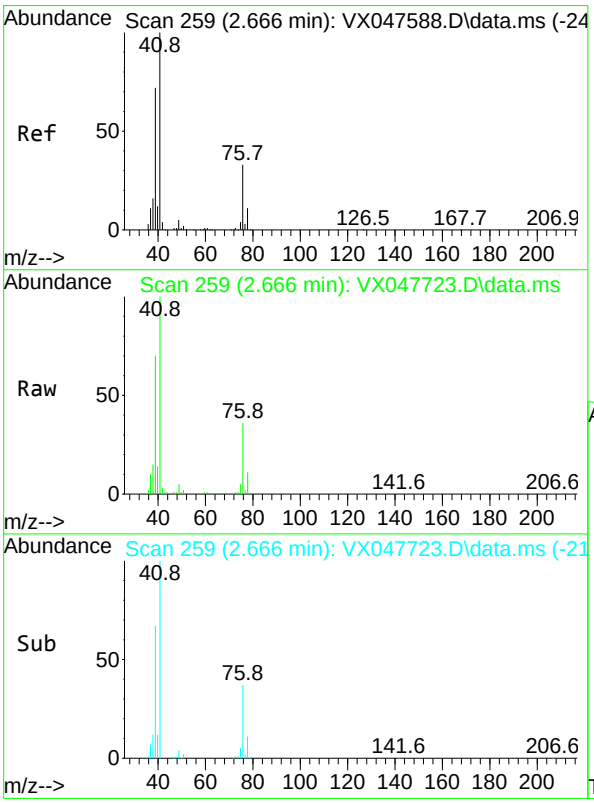
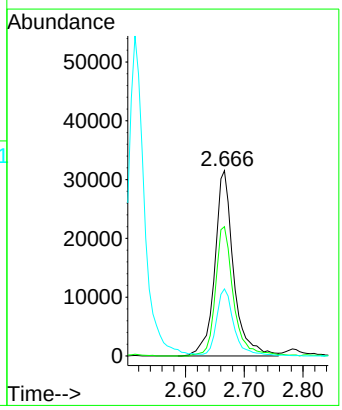
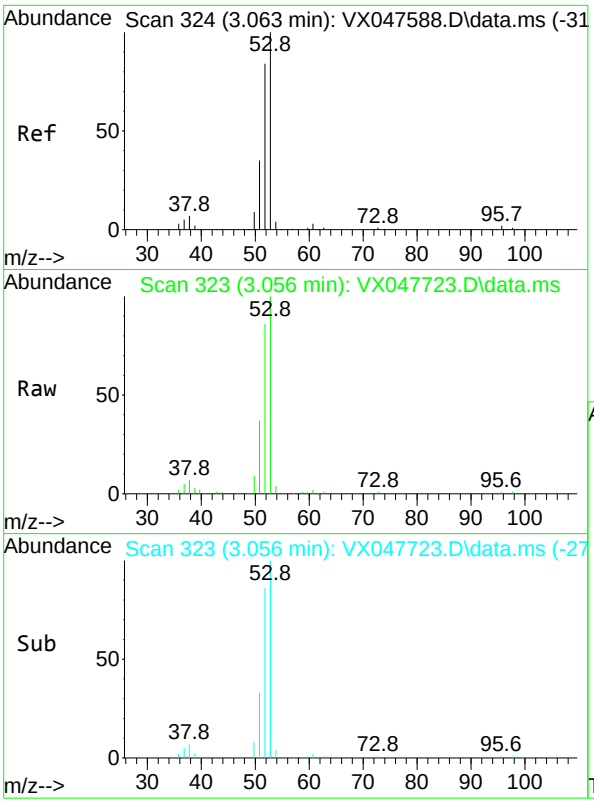


#14
Allyl chloride
Concen: 15.738 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 70142

Ion	Ratio	Lower	Upper
41	100		
39	67.1	54.7	82.1
76	33.8	25.7	38.5

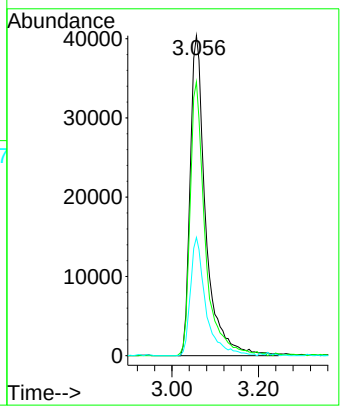




#15
Acrylonitrile
Concen: 84.401 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 53 Resp: 10075

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.7	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
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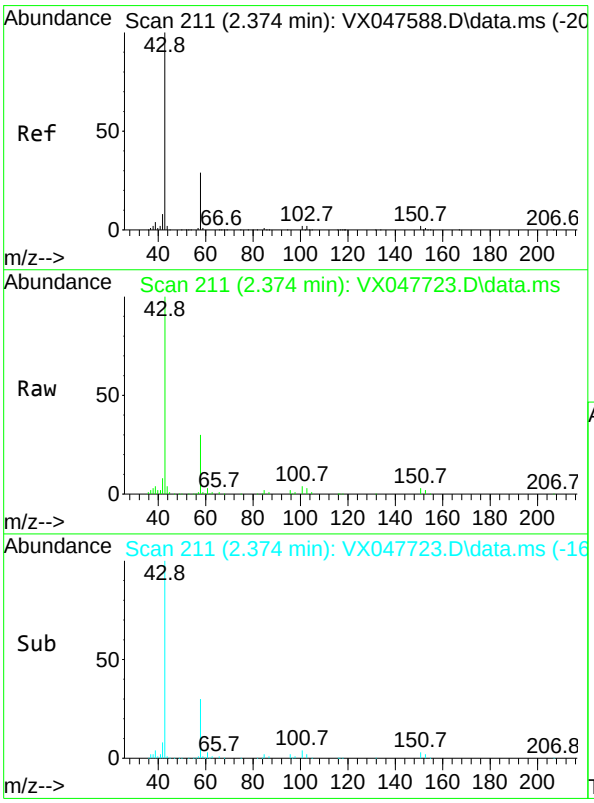
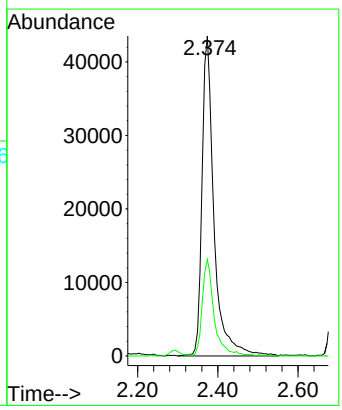
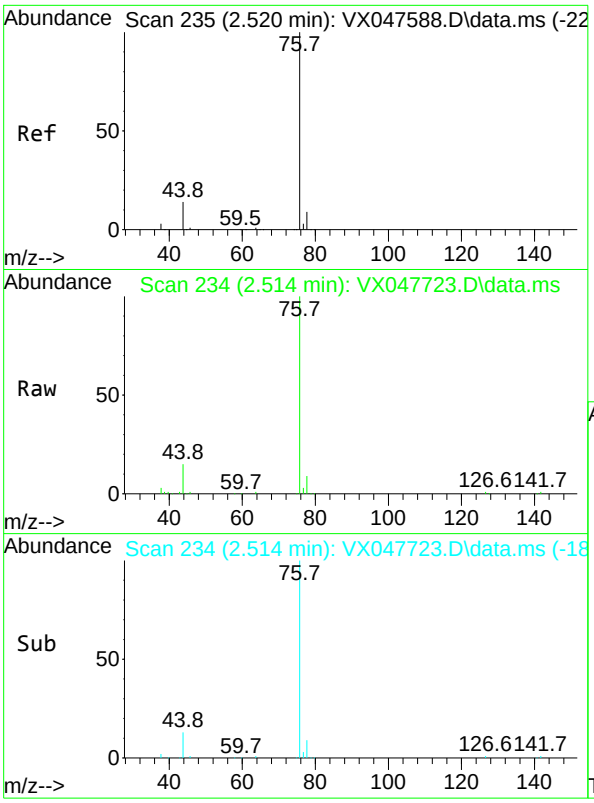


#16
Acetone
Concen: 71.706 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 90216

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.4	35.0

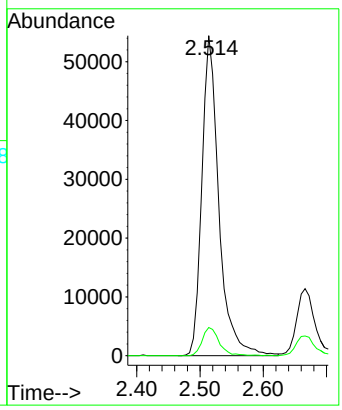




#17
Carbon Disulfide
Concen: 17.244 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 76 Resp: 10195

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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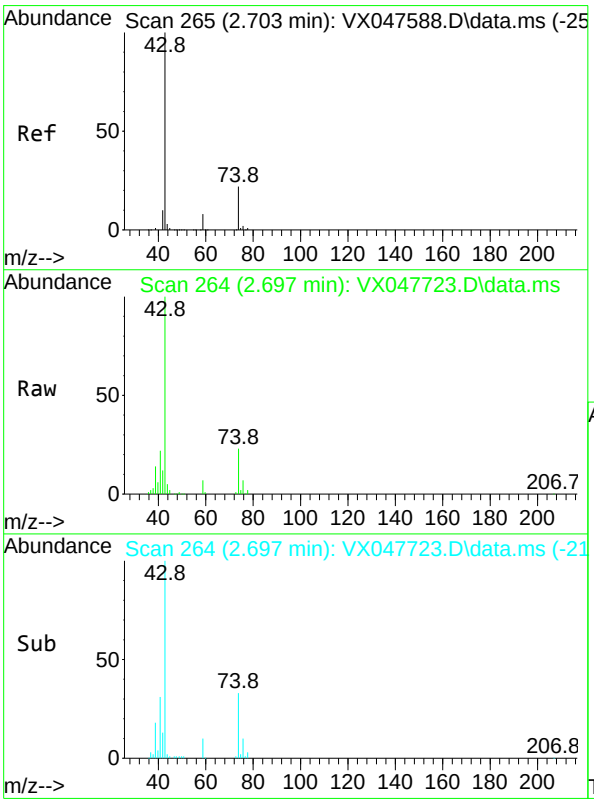
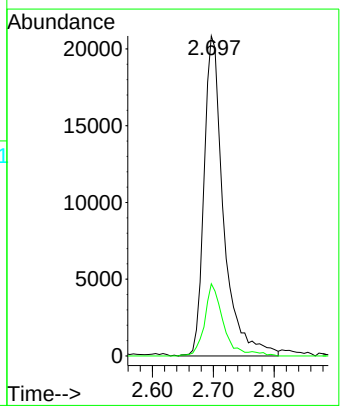
Supervised By :Mahesh Dadoda 09/26/2025

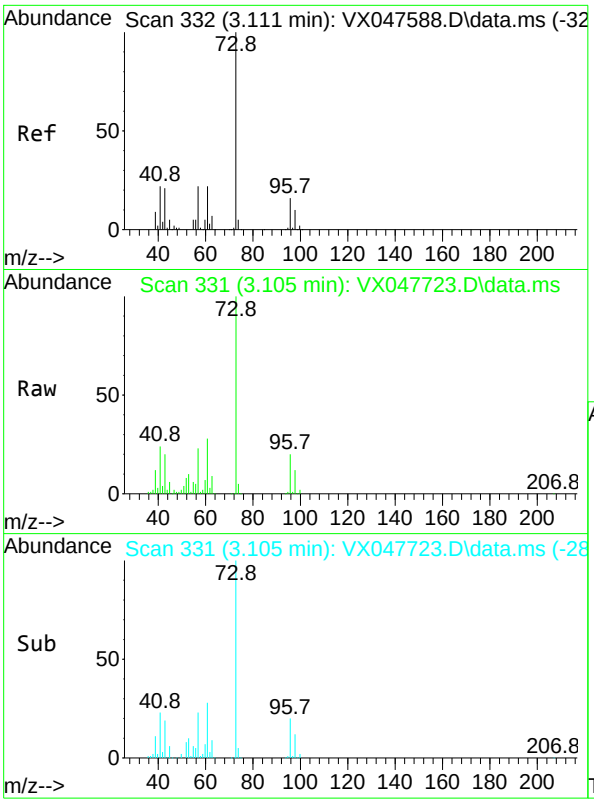


#18
Methyl Acetate
Concen: 16.621 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 46539

Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.4	26.2

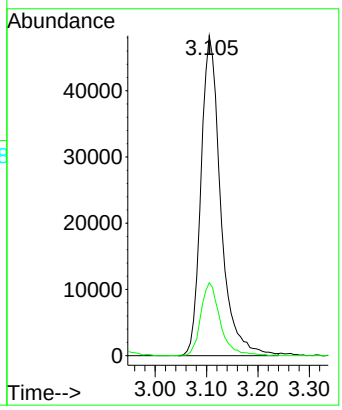




#19
Methyl tert-butyl Ether
Concen: 16.310 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 73 Resp: 12859

Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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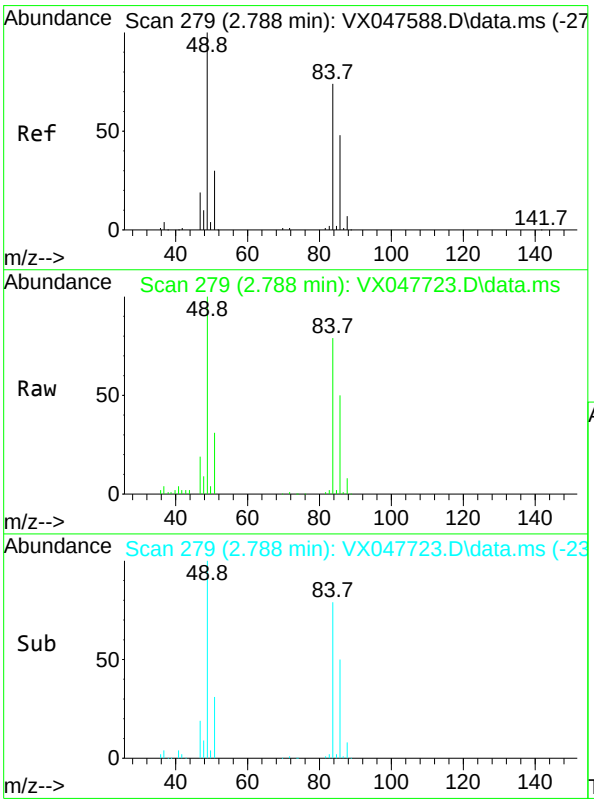
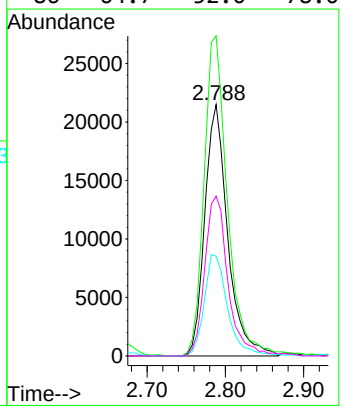
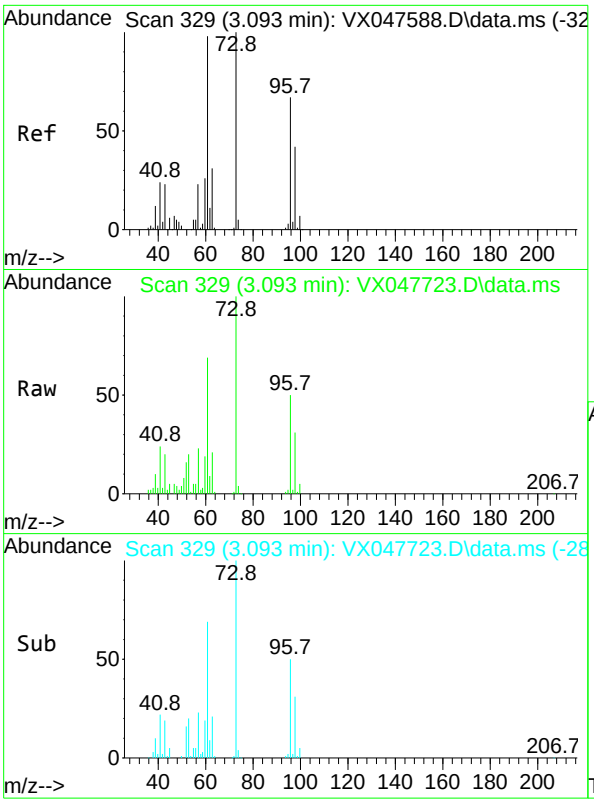


#20
Methylene Chloride
Concen: 16.413 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 84 Resp: 43710

Ion	Ratio	Lower	Upper
84	100		
49	127.3	108.6	162.8
51	39.7	32.6	48.8
86	64.7	52.0	78.0

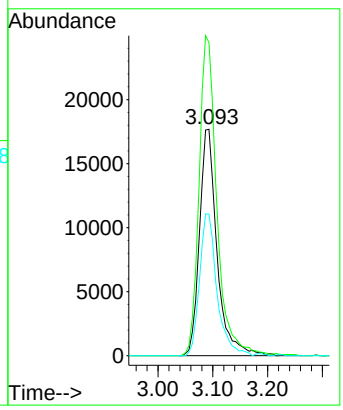




#21
trans-1,2-Dichloroethene
Concen: 16.950 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 96 Resp: 3941

Ion	Ratio	Lower	Upper
96	100		
61	138.3	116.2	174.2
98	62.5	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
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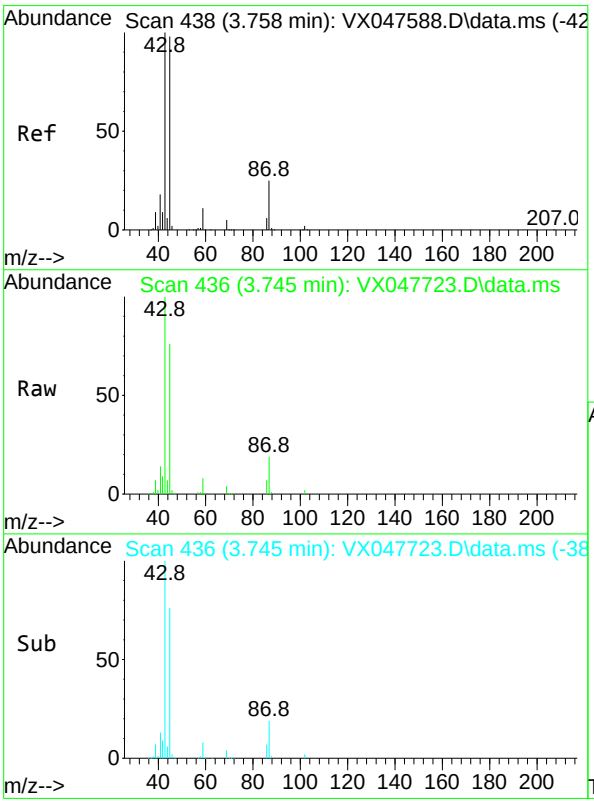
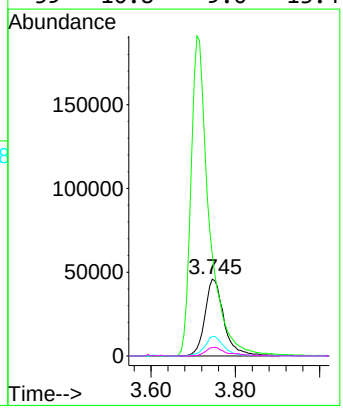
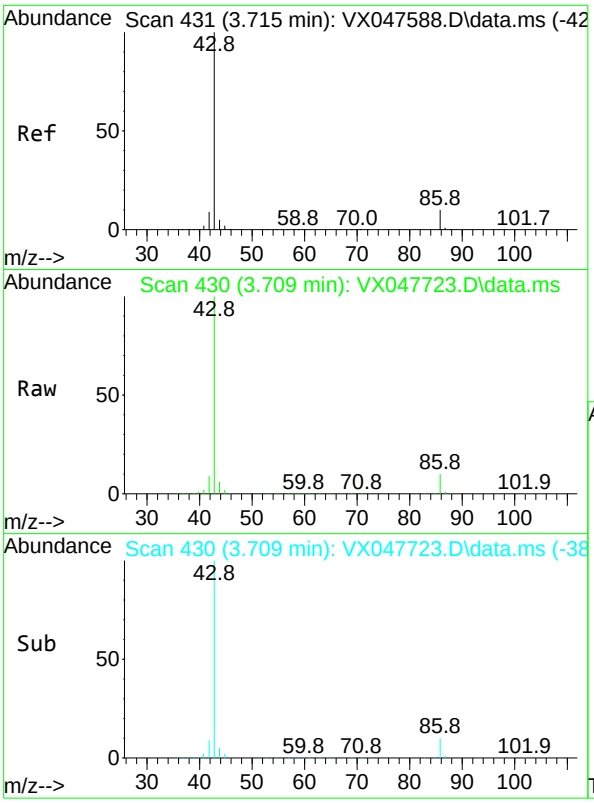


#22
Diisopropyl ether
Concen: 16.712 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 45 Resp: 144354

Ion	Ratio	Lower	Upper
45	100		
43	130.4	81.0	121.4#
87	25.2	20.3	30.5
59	10.8	9.0	13.4





#23
Vinyl Acetate
Concen: 83.195 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 57512

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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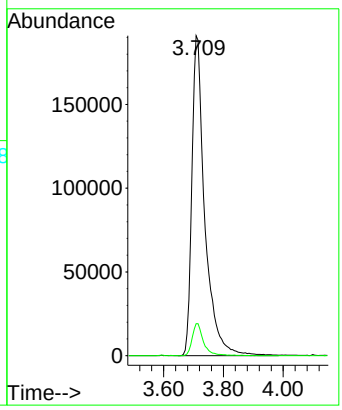
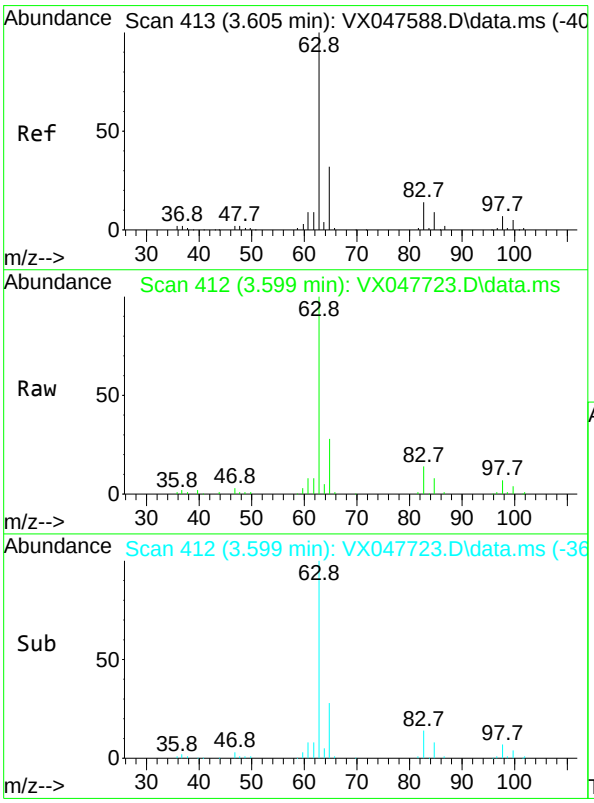
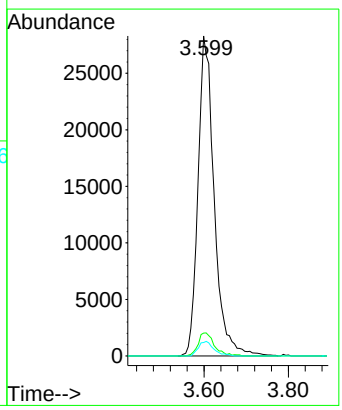


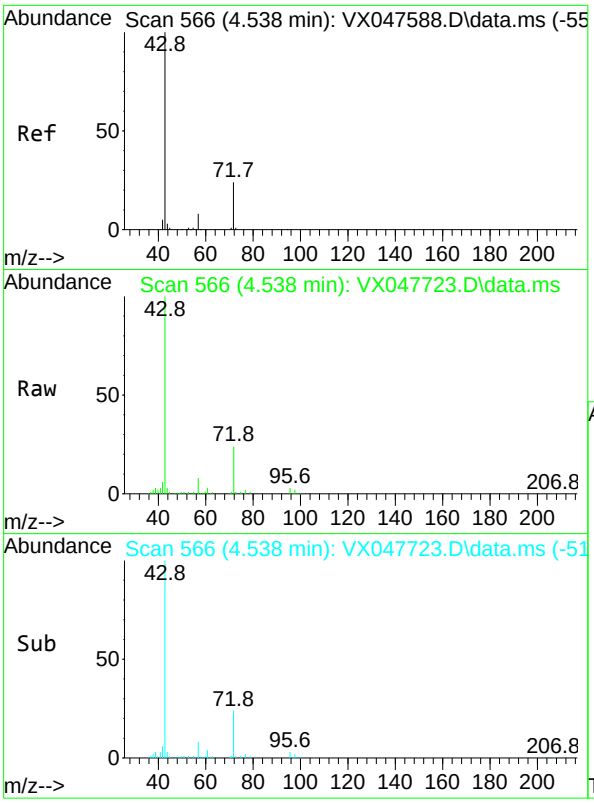


#24
1,1-Dichloroethane
Concen: 16.495 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 75728

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.8	11.2
100	4.2	2.3	6.9





#25
2-Butanone
Concen: 78.705 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 12351

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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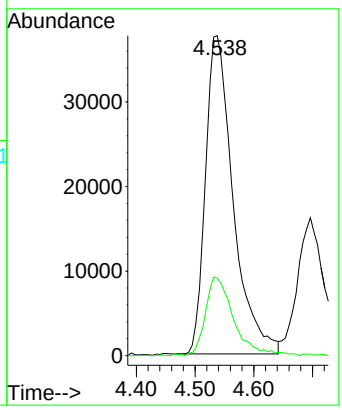
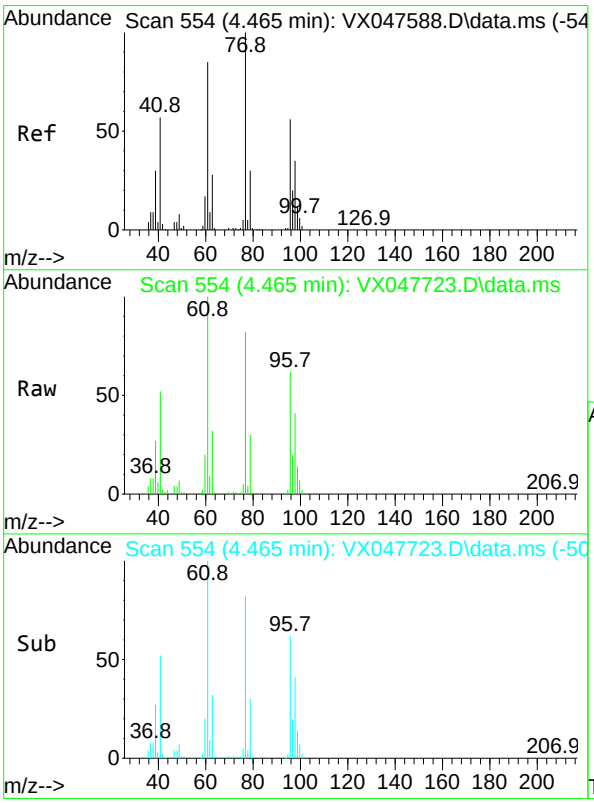
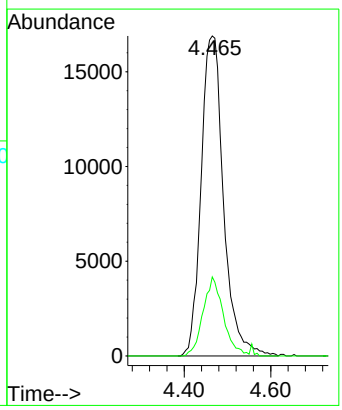


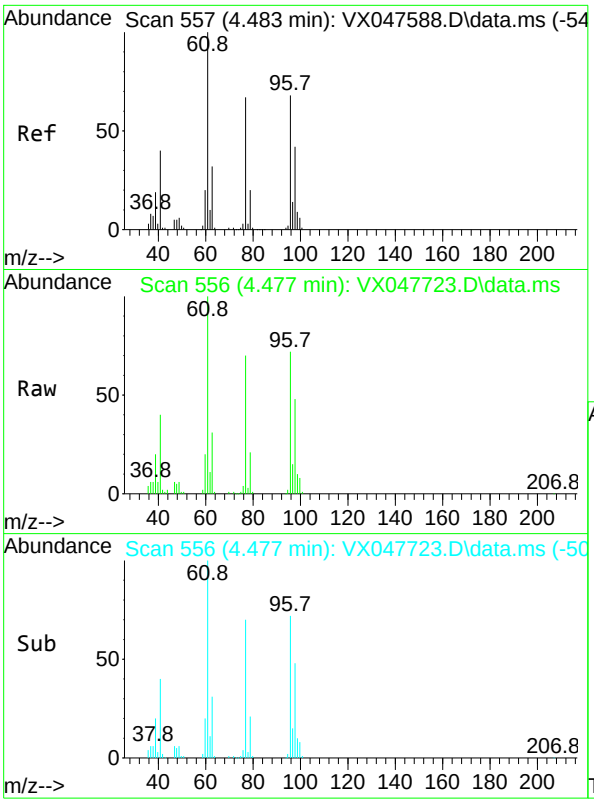


#26
2,2-Dichloropropane
Concen: 15.910 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 77 Resp: 60715

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7

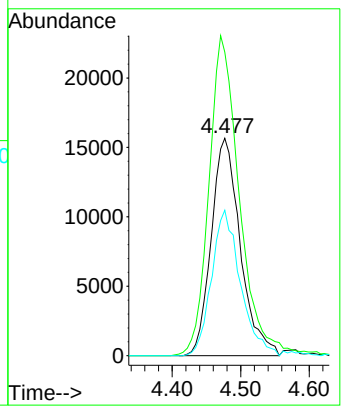




#27
cis-1,2-Dichloroethene
Concen: 16.177 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 96 Resp: 4606

Ion	Ratio	Lower	Upper
96	100		
61	155.1	0.0	303.2
98	66.4	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
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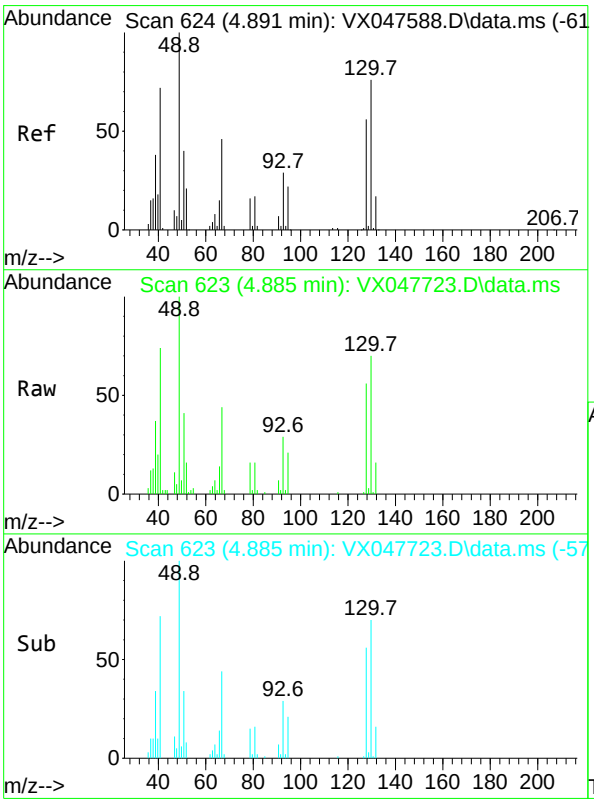
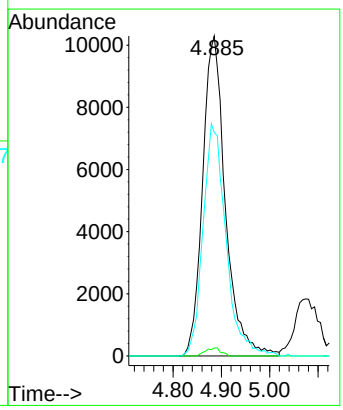
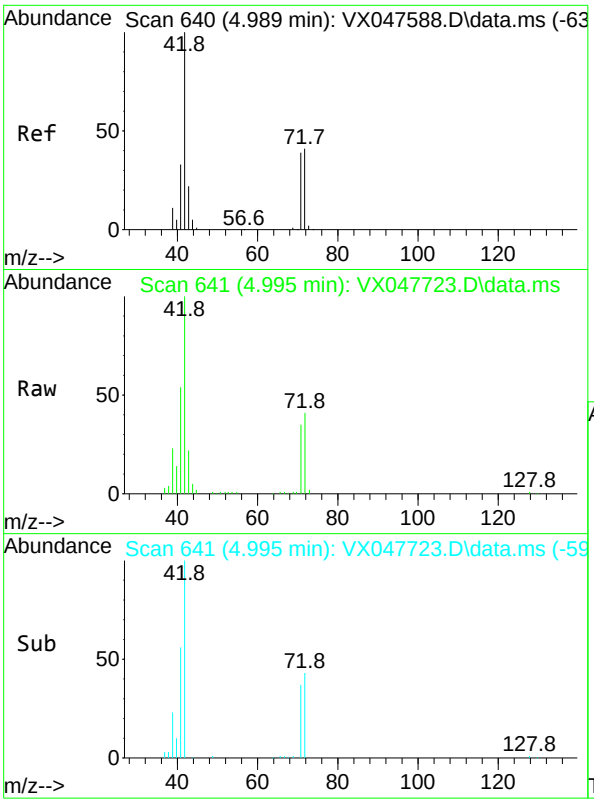


#28
Bromochloromethane
Concen: 16.807 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 49 Resp: 33685

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	73.4	57.8	86.8

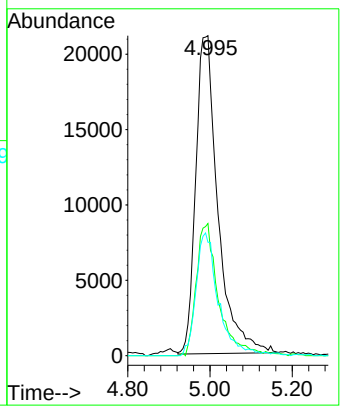




#29
Tetrahydrofuran
Concen: 83.826 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 42 Resp: 7914

Ion	Ratio	Lower	Upper
42	100		
72	41.4	34.2	51.2
71	38.8	31.9	47.9



Instrument :
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ClientSampleId :
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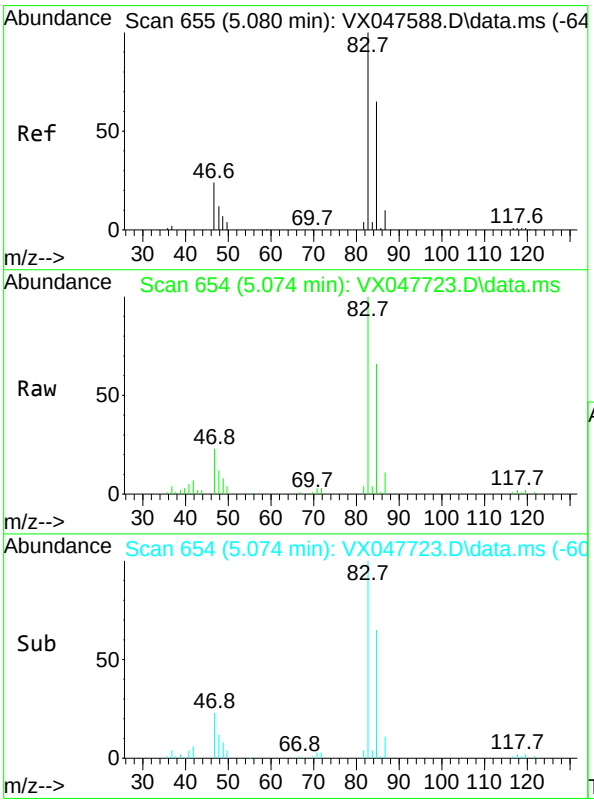
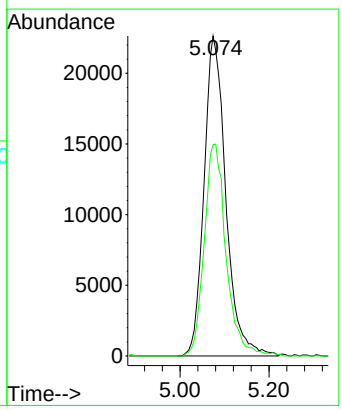
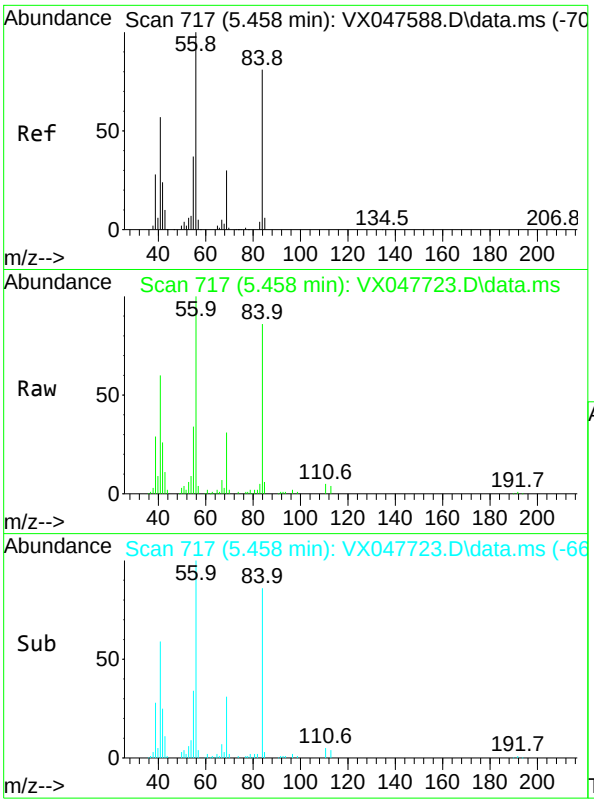


#30
Chloroform
Concen: 16.618 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 77095

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.8	77.6

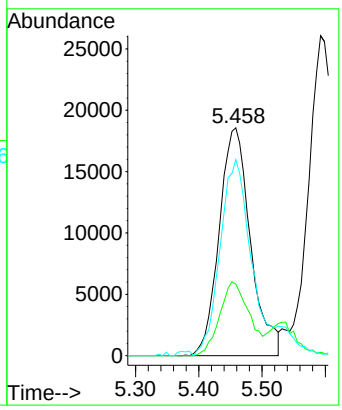




#31
Cyclohexane
Concen: 16.688 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 56 Resp: 6380

Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.8	35.8
84	84.5	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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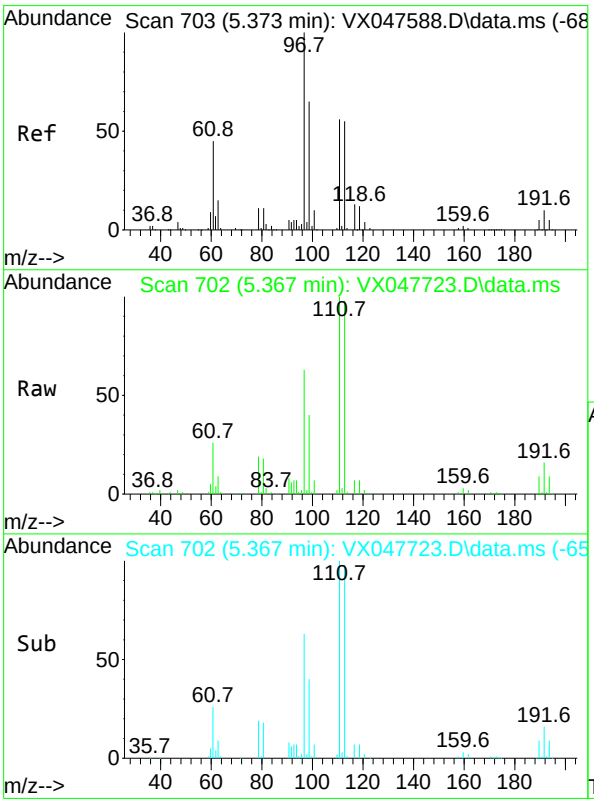
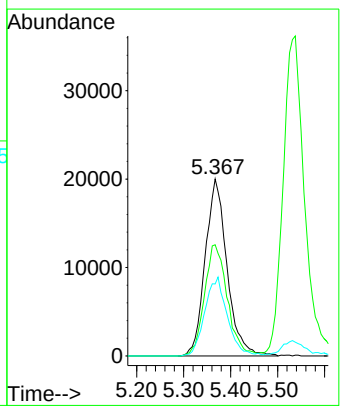
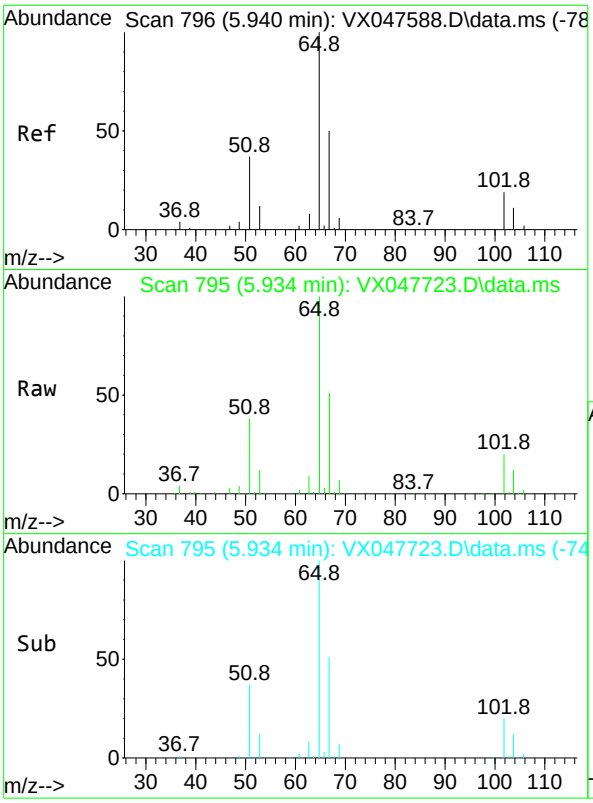


#32
1,1,1-Trichloroethane
Concen: 16.421 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 97 Resp: 64618

Ion	Ratio	Lower	Upper
97	100		
99	65.8	50.6	76.0
61	45.9	35.8	53.8

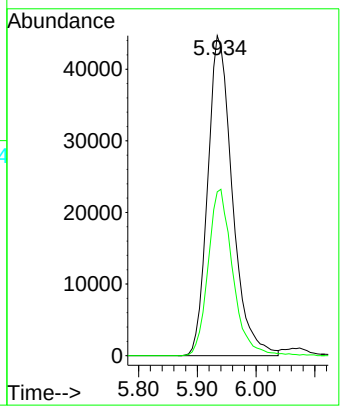




#33
1,2-Dichloroethane-d4
Concen: 44.983 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 65 Resp: 13016

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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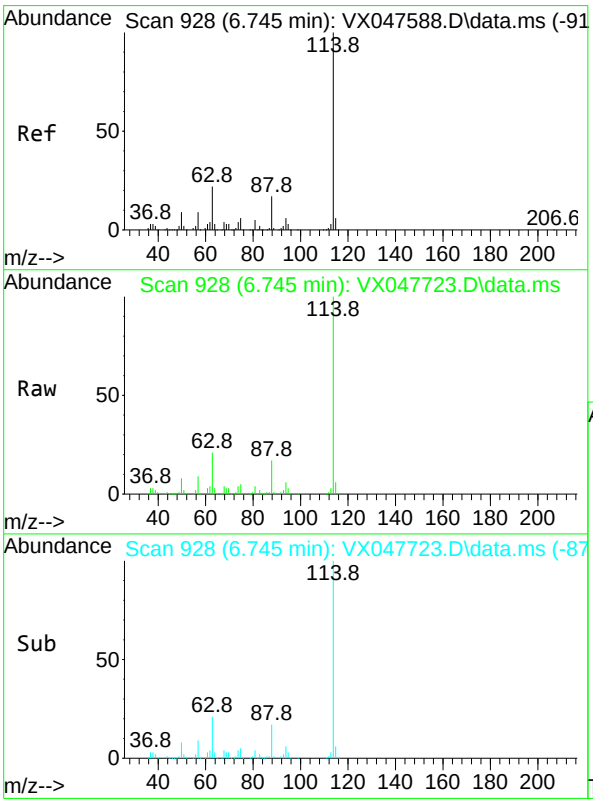
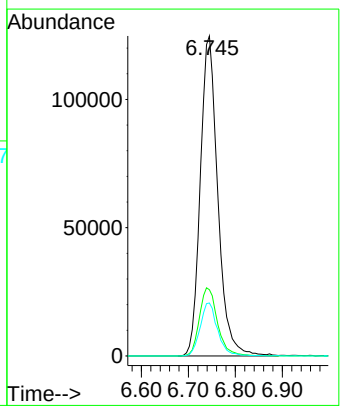
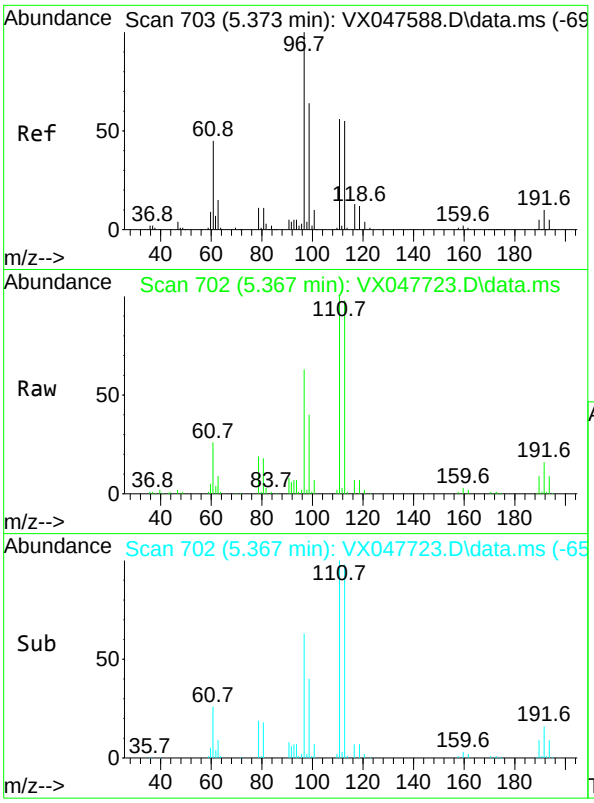


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:114 Resp: 322664

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	16.5	0.0	34.2

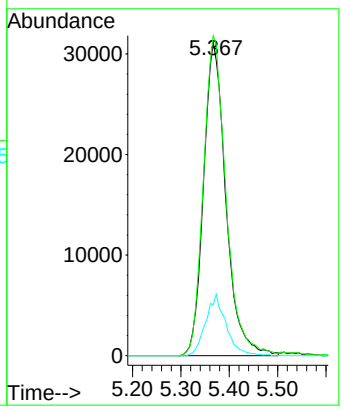




#35
Dibromofluoromethane
Concen: 46.149 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:113 Resp: 9986

Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.9	121.3
192	18.0	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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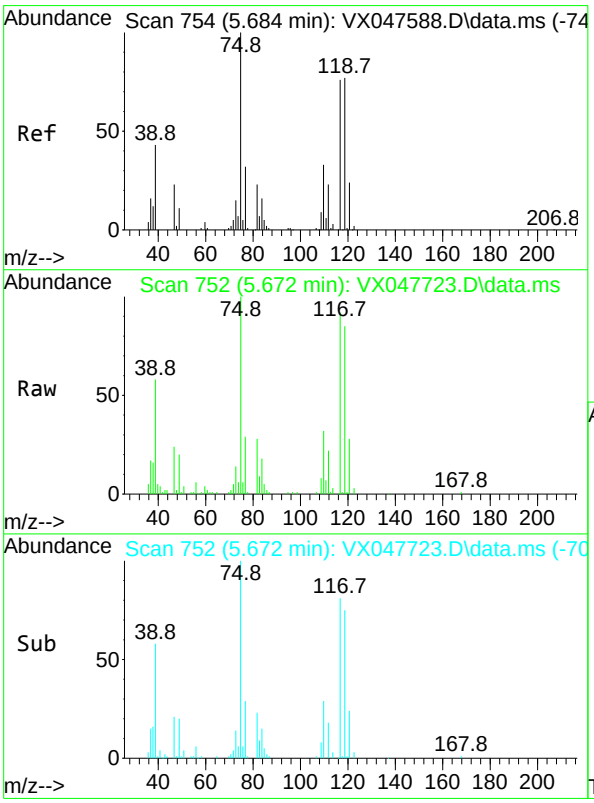
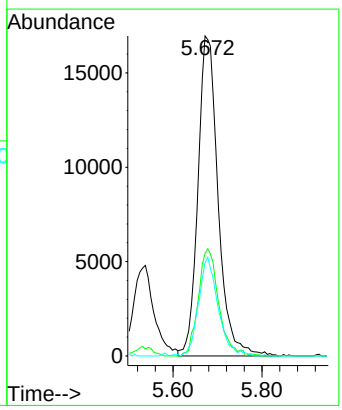
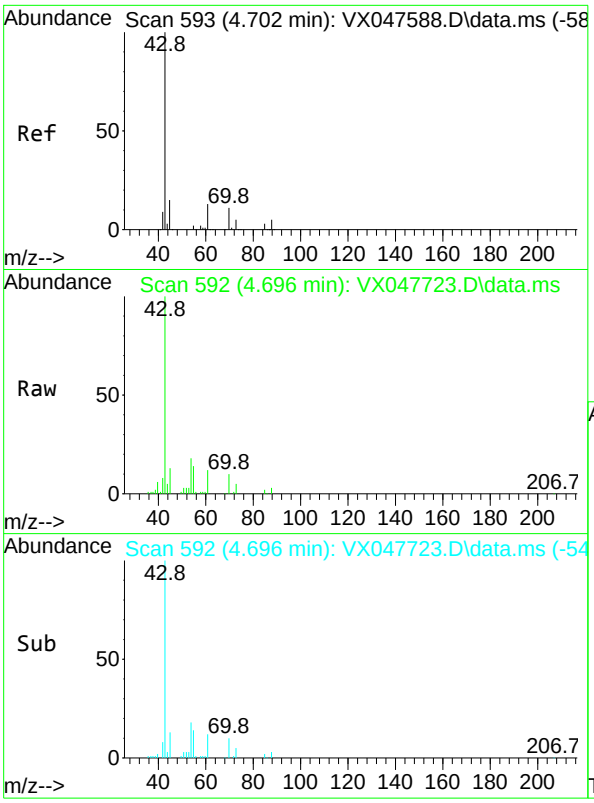


#36
1,1-Dichloropropene
Concen: 16.949 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 53594

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.7	50.1
77	29.8	24.3	36.5





#37
Ethyl Acetate
Concen: 15.743 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 5330

Ion	Ratio	Lower	Upper
43	100		
61	11.6	9.8	14.8
70	10.0	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
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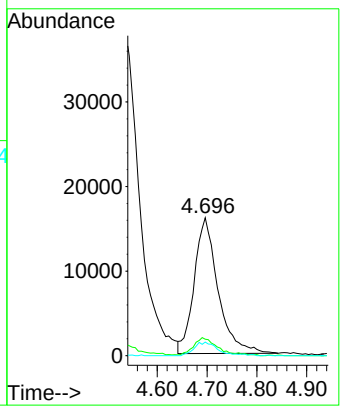
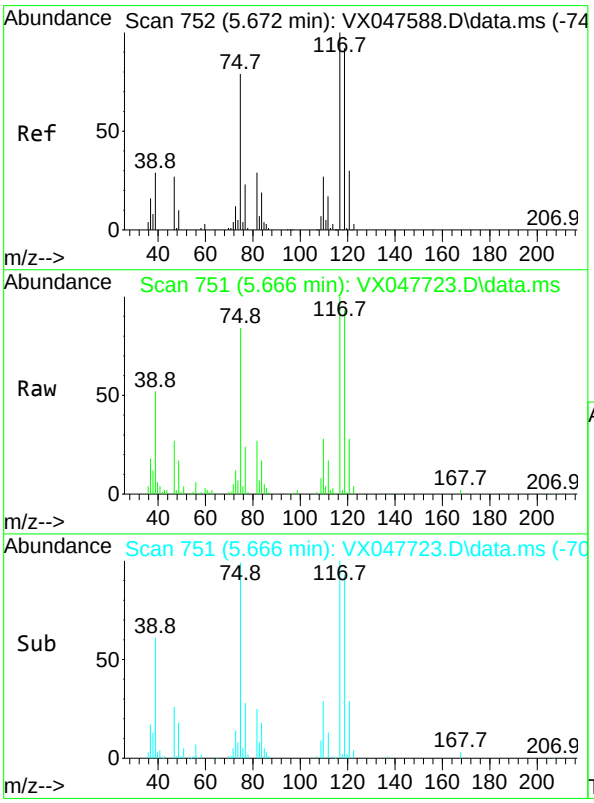
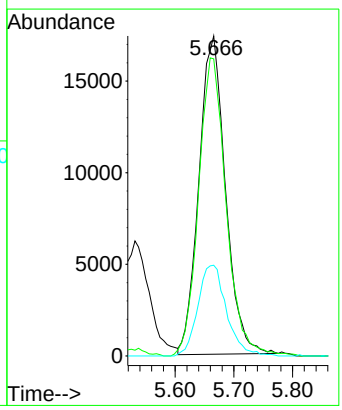


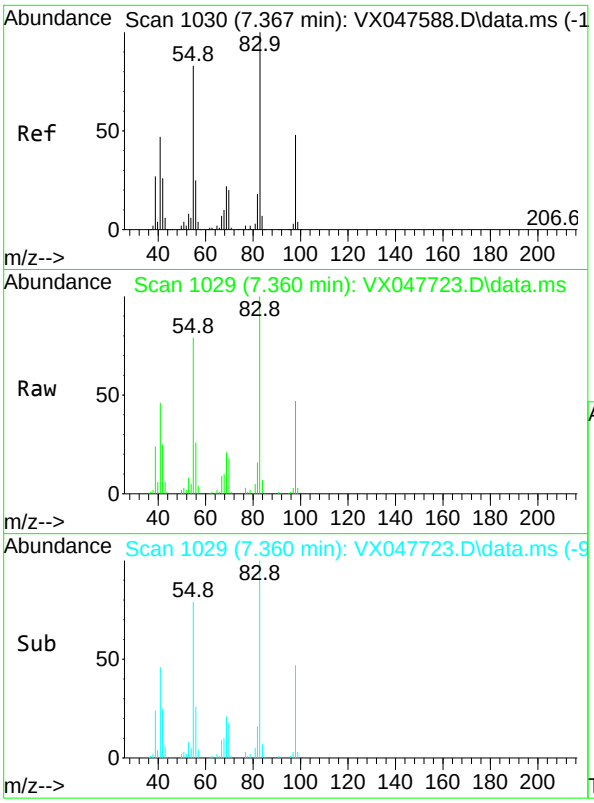


#38
Carbon Tetrachloride
Concen: 15.922 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 54702

Ion	Ratio	Lower	Upper
117	100		
119	92.9	73.4	110.2
121	28.6	23.8	35.6

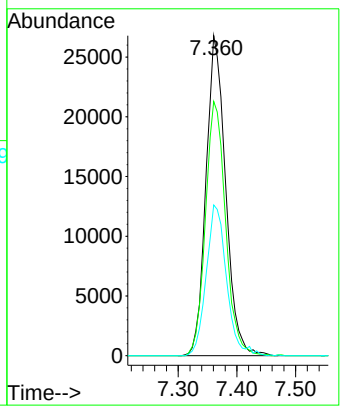




#39
Methylcyclohexane
Concen: 17.344 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 6225

Ion	Ratio	Lower	Upper
83	100		
55	79.4	66.4	99.6
98	47.1	38.1	57.1



Instrument :
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ClientSampleId :
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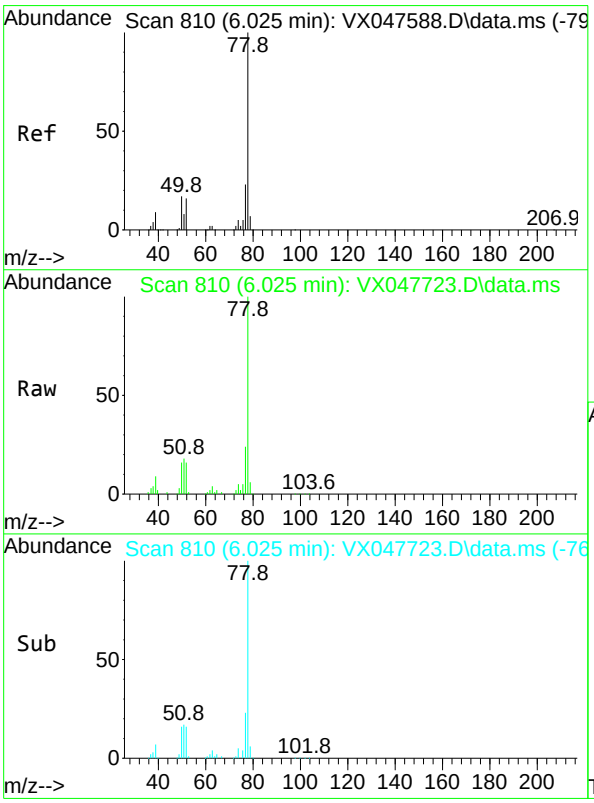
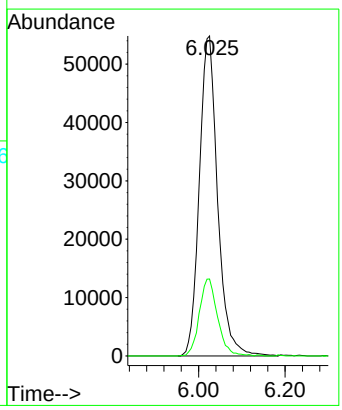
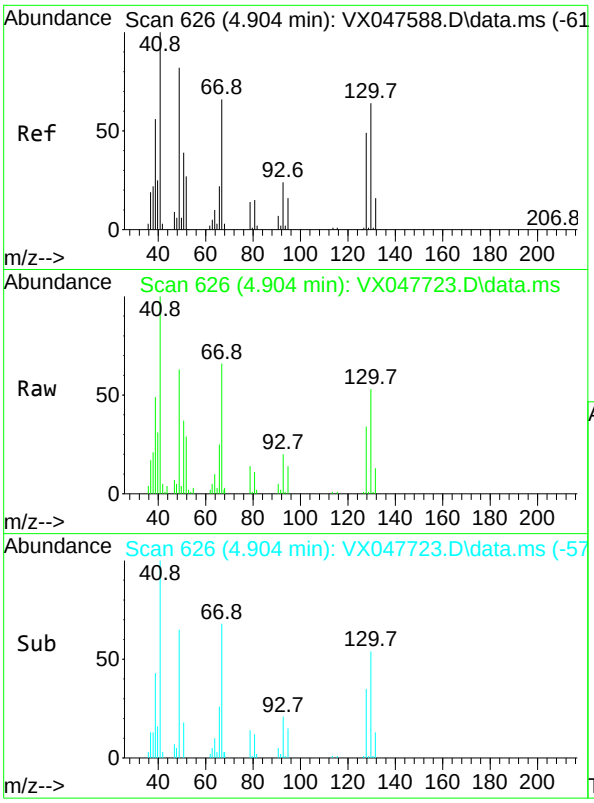


#40
Benzene
Concen: 16.697 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 78 Resp: 160358

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2

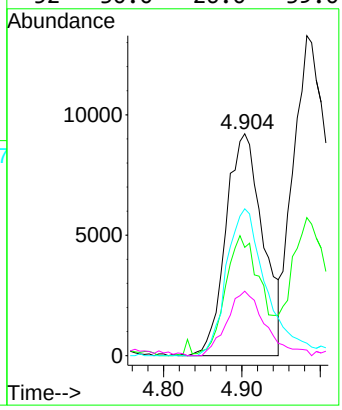




#41
Methacrylonitrile
Concen: 17.365 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 3035

Ion	Ratio	Lower	Upper
41	100		
39	50.0	43.3	64.9
67	70.6	58.6	87.8
52	30.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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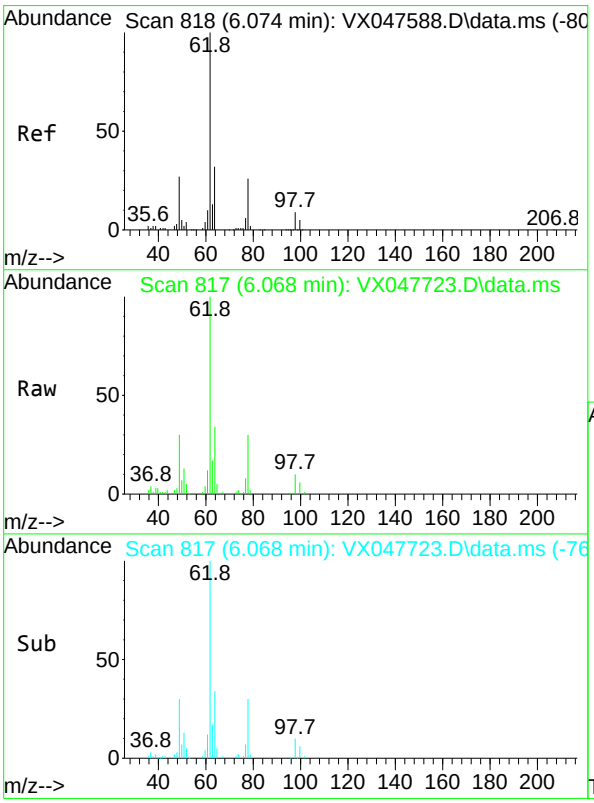
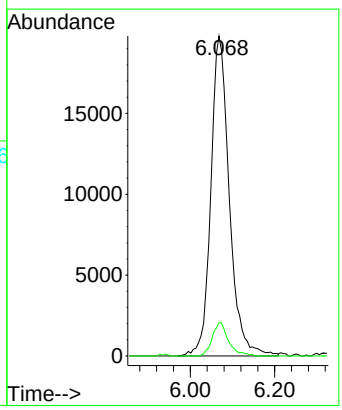
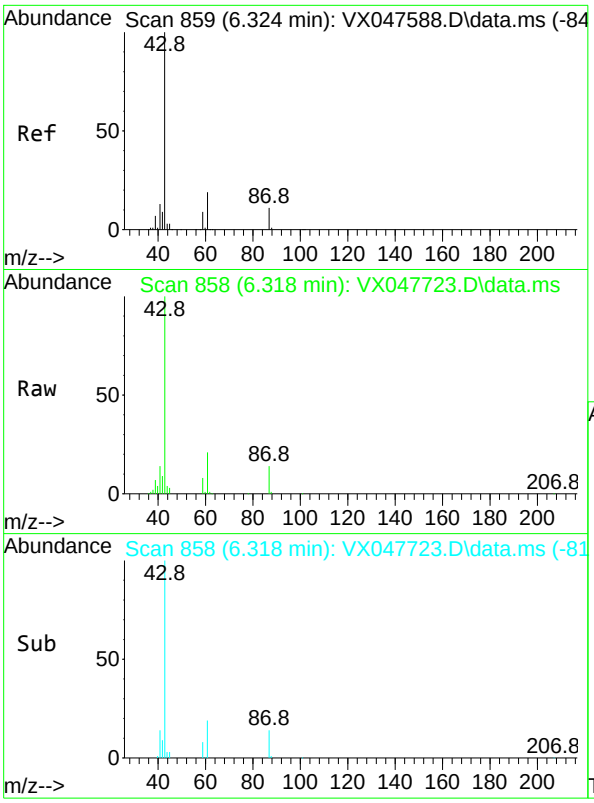


#42
1,2-Dichloroethane
Concen: 16.455 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 62 Resp: 60128

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0

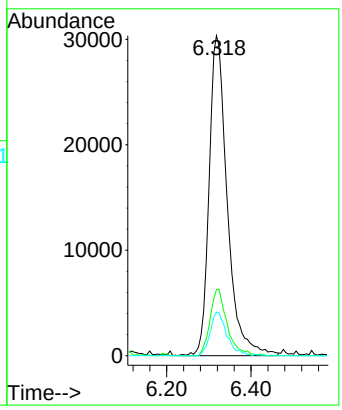




#43
Isopropyl Acetate
Concen: 16.367 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 9088

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.5	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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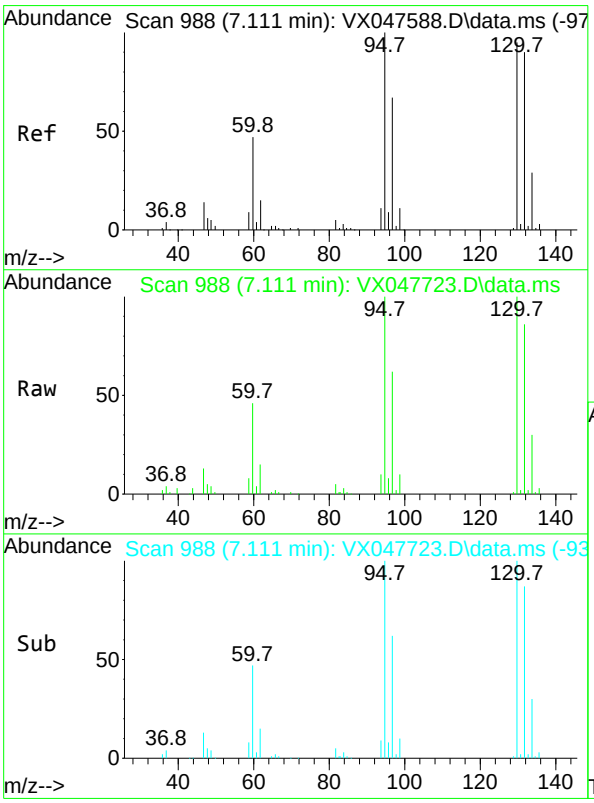
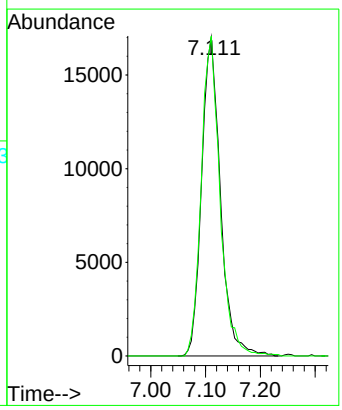
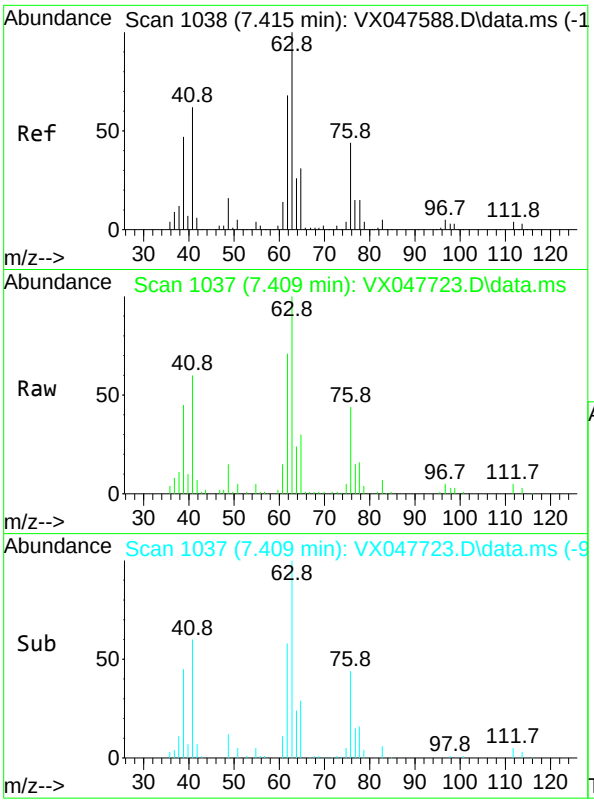


#44
Trichloroethene
Concen: 17.464 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:130 Resp: 40550

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	210.8

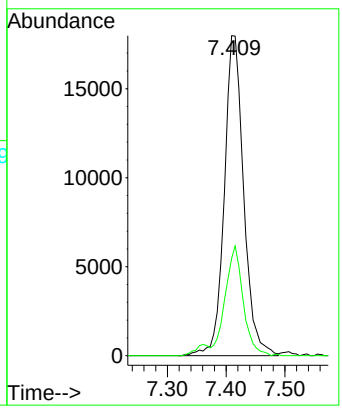




#45
1,2-Dichloropropane
Concen: 16.811 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 4134

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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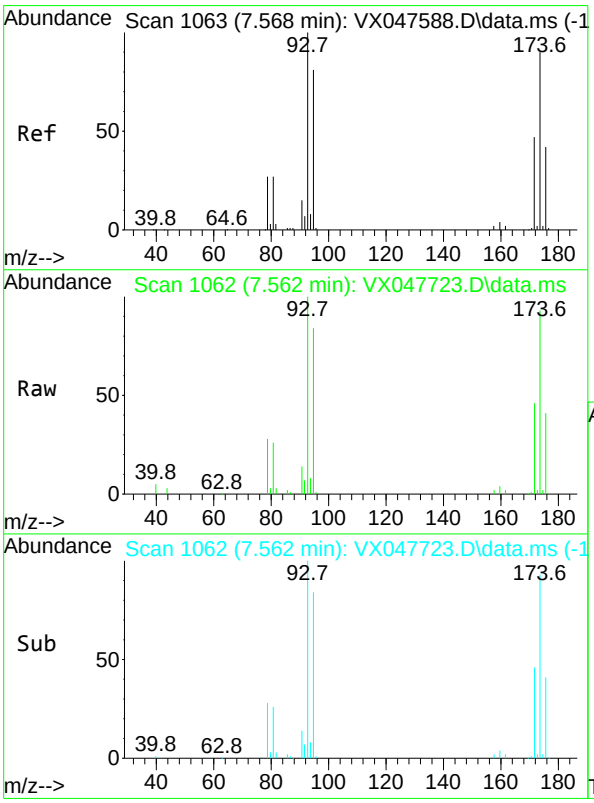
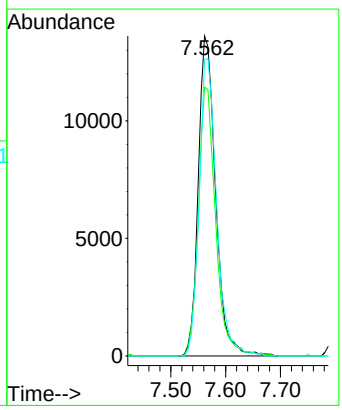
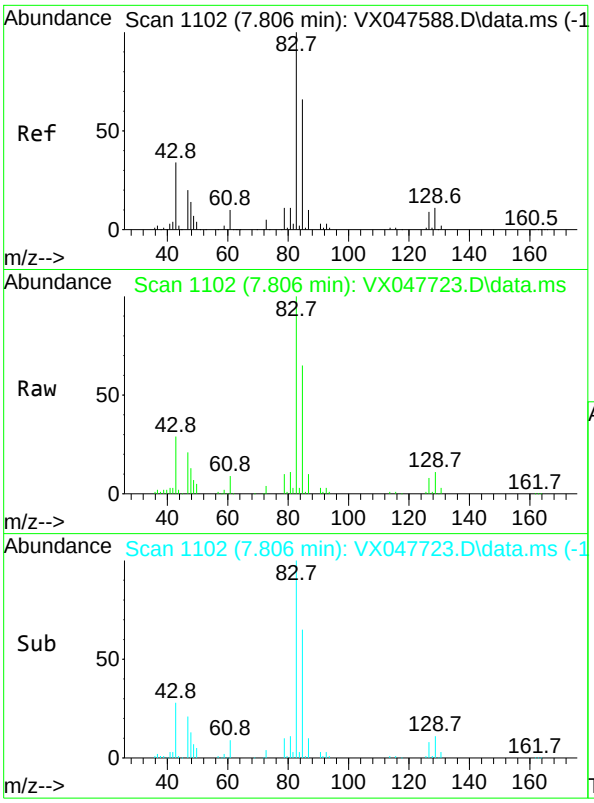


#46
Dibromomethane
Concen: 16.746 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 93 Resp: 29969

Ion	Ratio	Lower	Upper
93	100		
95	83.8	65.0	97.6
174	93.4	71.6	107.4

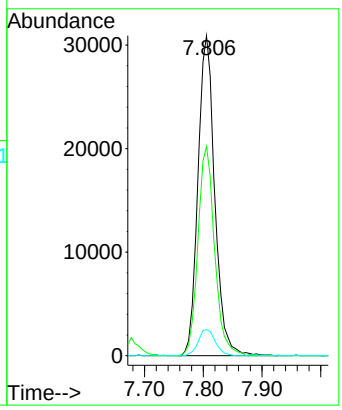




#47
Bromodichloromethane
Concen: 16.577 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 6121

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.5	78.7
127	8.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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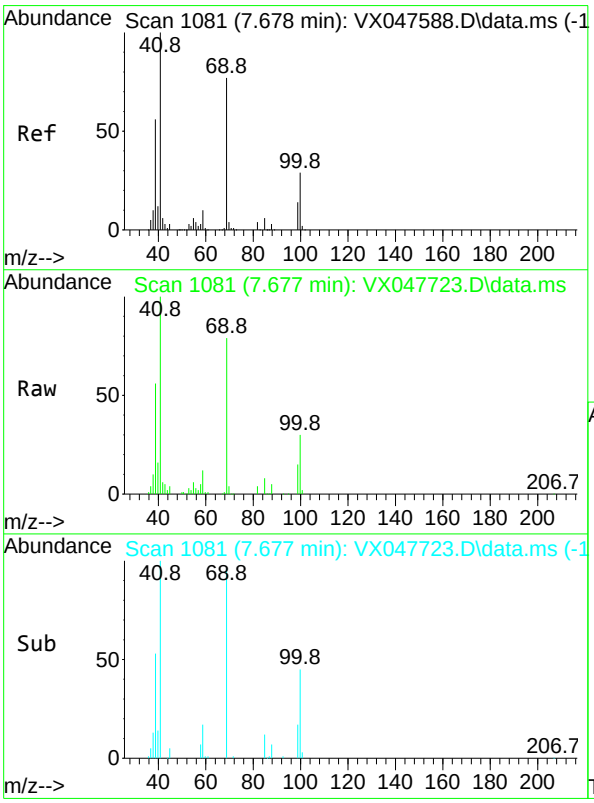
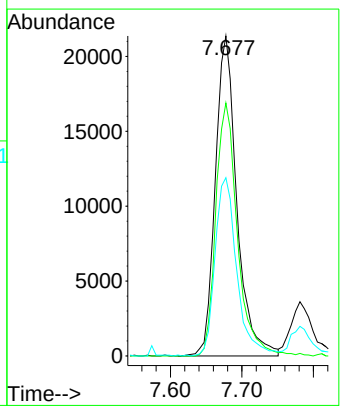
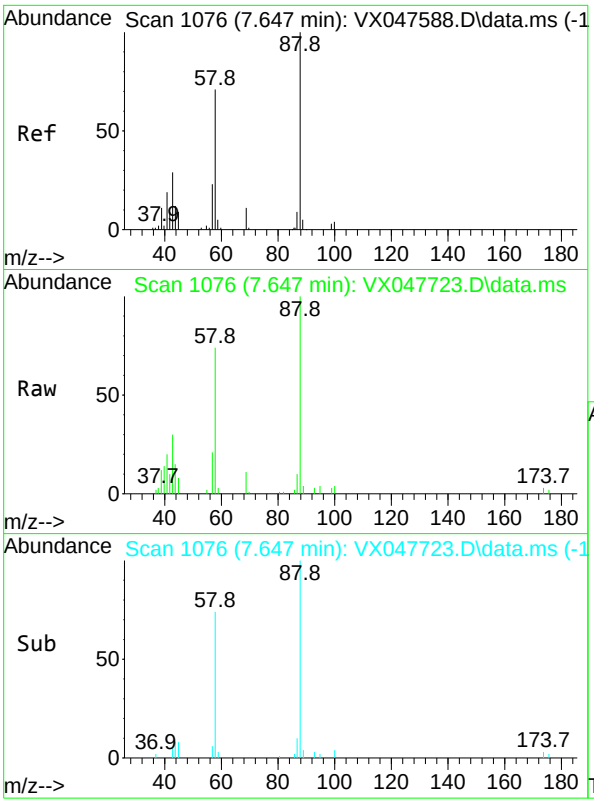


#48
Methyl methacrylate
Concen: 16.166 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 44713

Ion	Ratio	Lower	Upper
41	100		
69	79.6	61.4	92.2
39	56.3	45.8	68.6

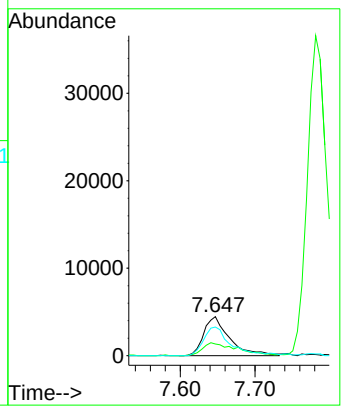




#49
1,4-Dioxane
Concen: 382.549 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 88 Resp: 1069

Ion	Ratio	Lower	Upper
88	100		
43	45.0	30.2	45.2
58	76.6	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
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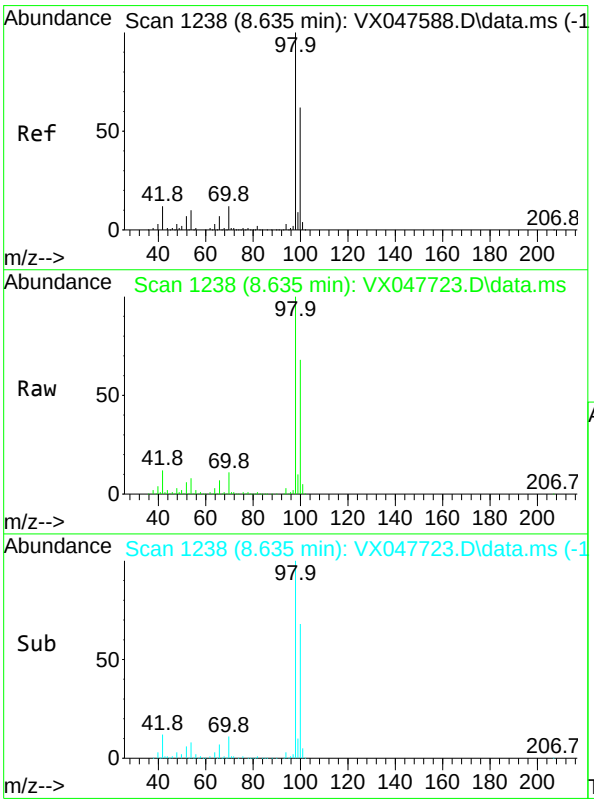
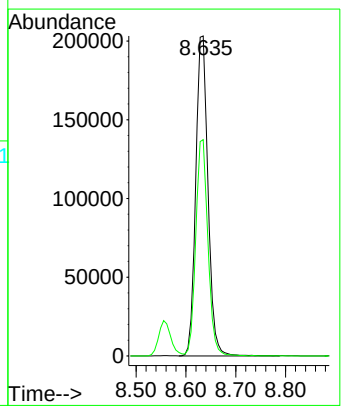
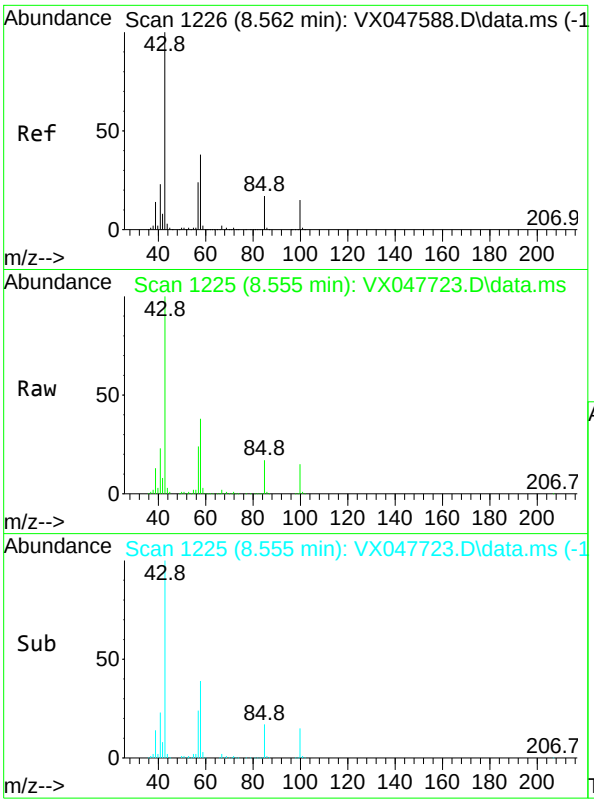


#50
Toluene-d8
Concen: 46.366 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 98 Resp: 347178

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.0	79.4

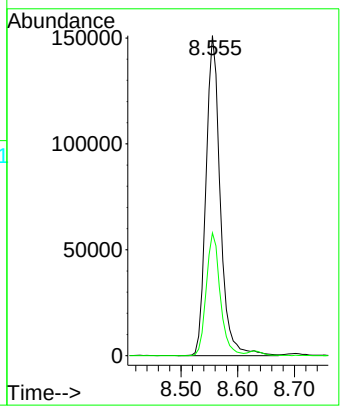




#51
4-Methyl-2-Pentanone
Concen: 85.968 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 26466

Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.3	45.5



Instrument :
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ClientSampleId :
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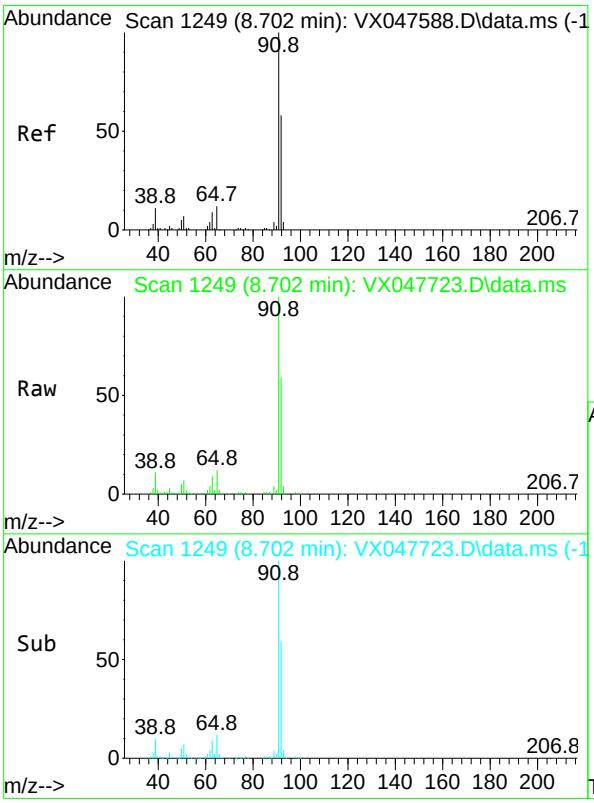
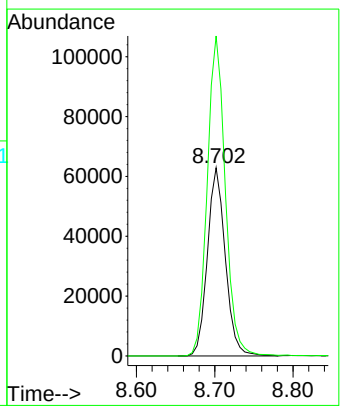
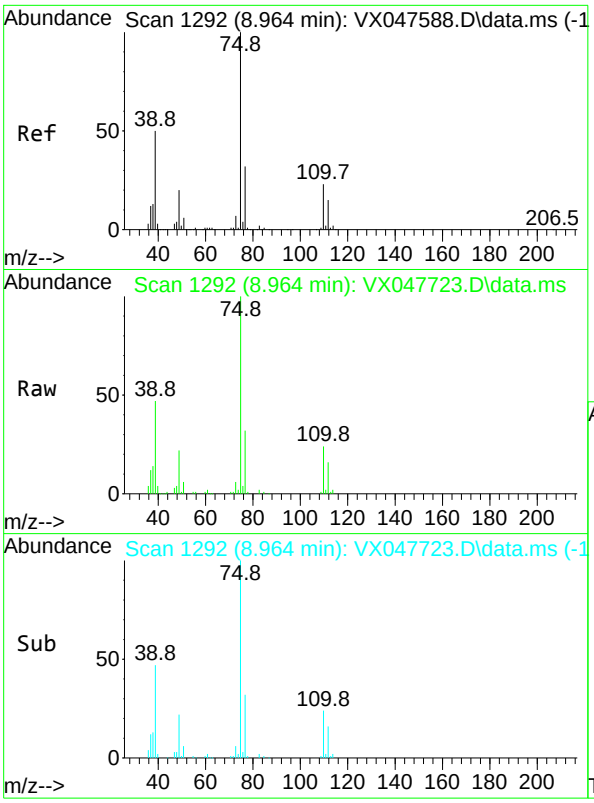


#52
Toluene
Concen: 16.863 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 92 Resp: 99779

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.1	205.7

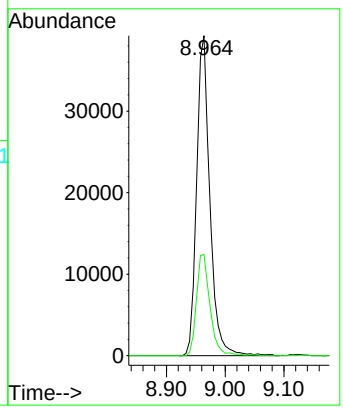




#53
t-1,3-Dichloropropene
Concen: 16.298 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 6139

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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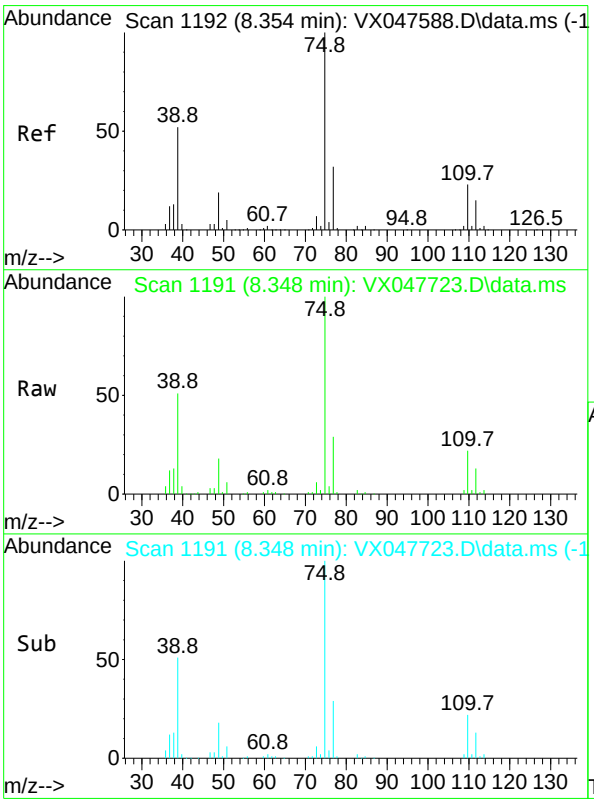
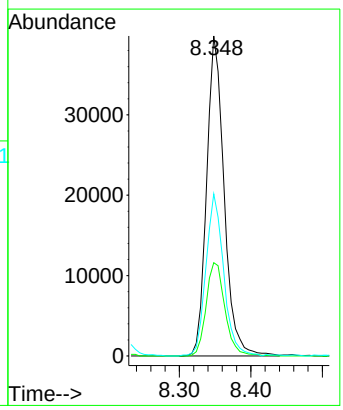
Supervised By :Mahesh Dadoda 09/26/2025

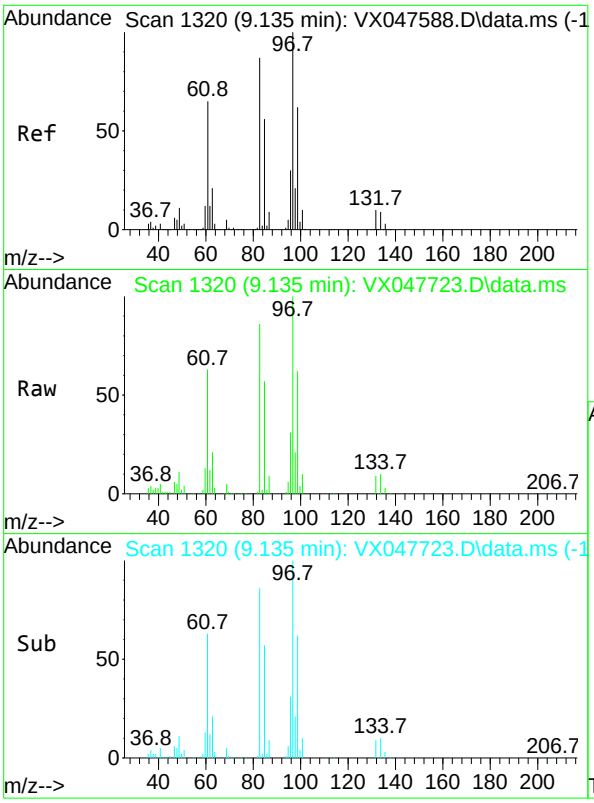


#54
cis-1,3-Dichloropropene
Concen: 16.810 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 67677

Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.8	38.6
39	50.6	41.4	62.2

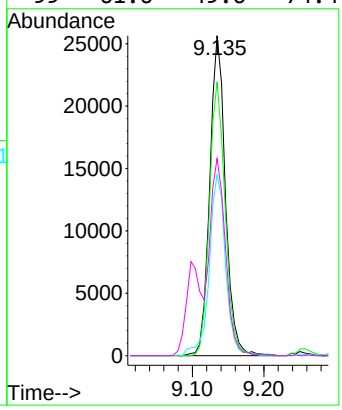




#55
1,1,2-Trichloroethane
Concen: 17.151 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 97 Resp: 3913

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.6	104.4
85	56.5	45.0	67.6
99	61.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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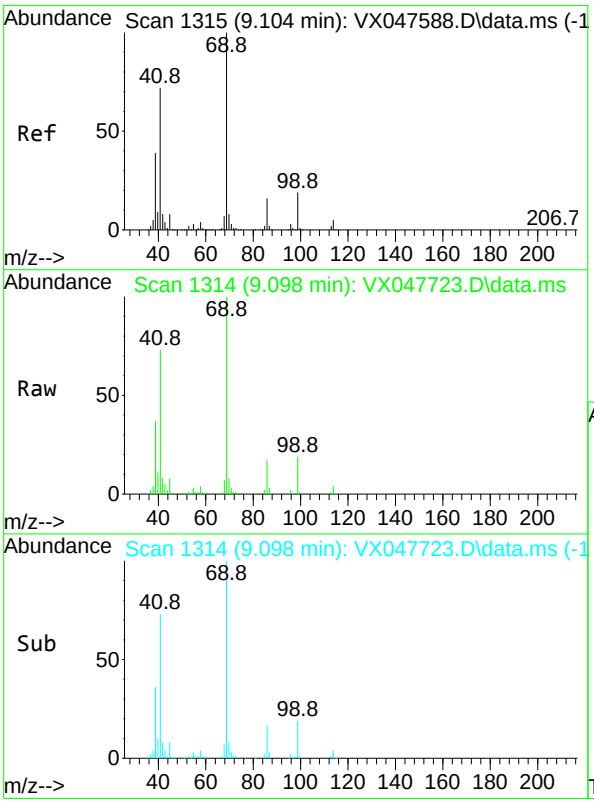
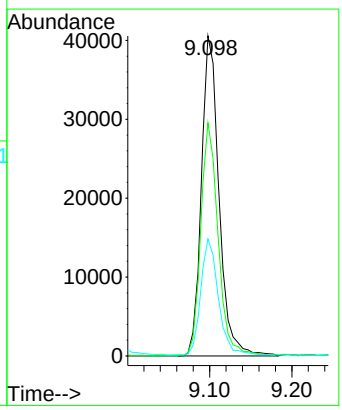
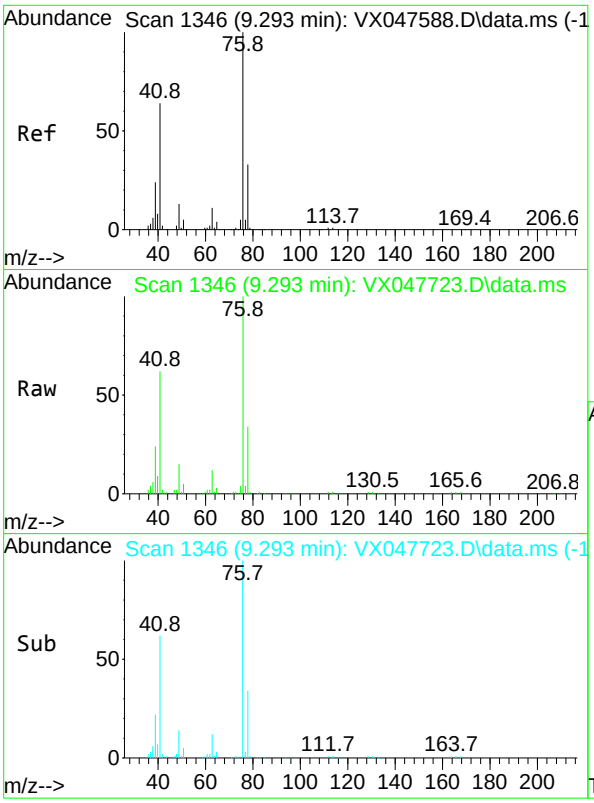


#56
Ethyl methacrylate
Concen: 16.859 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 69 Resp: 60408

Ion	Ratio	Lower	Upper
69	100		
41	71.2	58.6	87.8
39	37.8	31.5	47.3

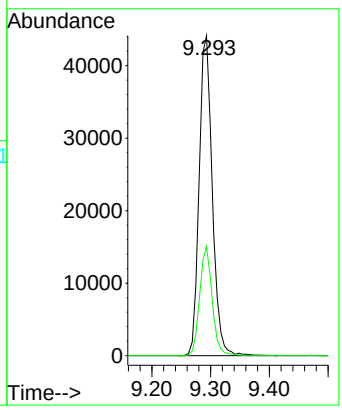




#57
1,3-Dichloropropane
Concen: 17.525 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 76 Resp: 6868

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4



Instrument :
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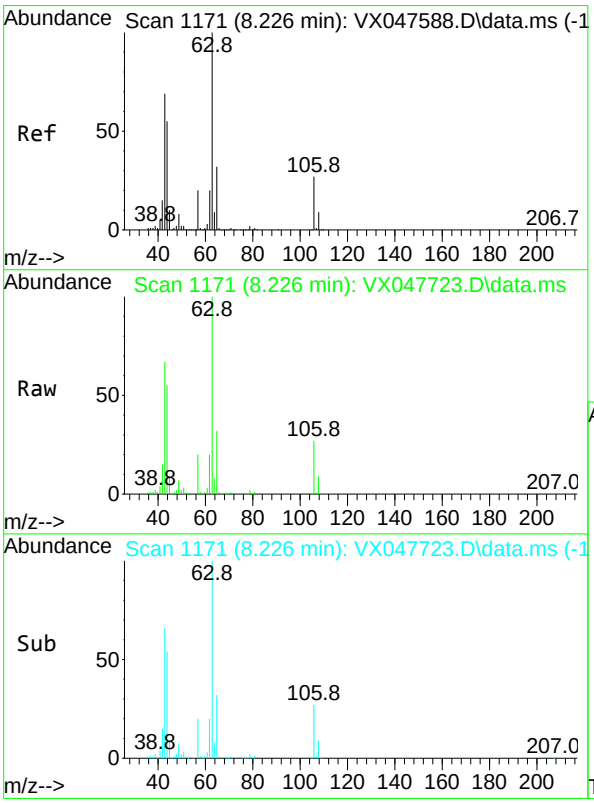
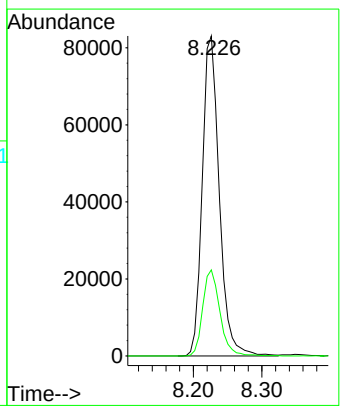
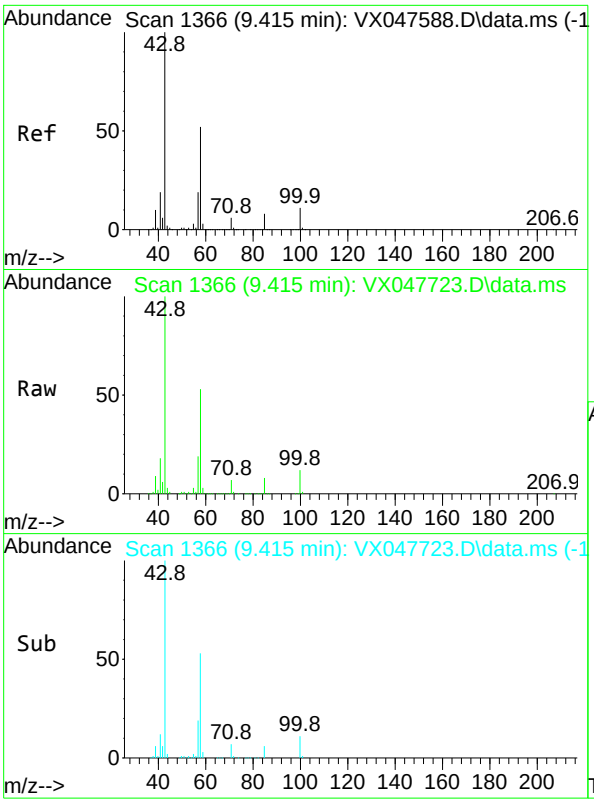


#58
2-Chloroethyl Vinyl ether
Concen: 91.195 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 143660

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.9	32.9

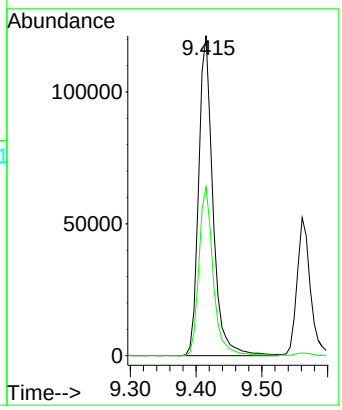




#59
2-Hexanone
Concen: 83.000 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 18352

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2



Instrument :
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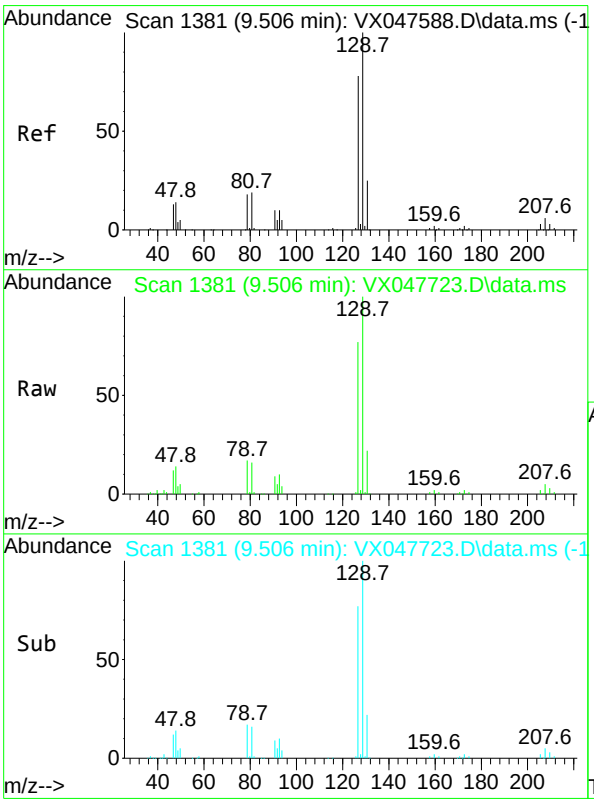
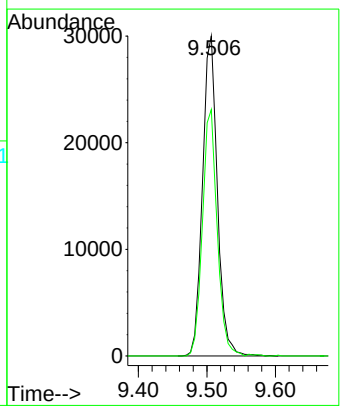
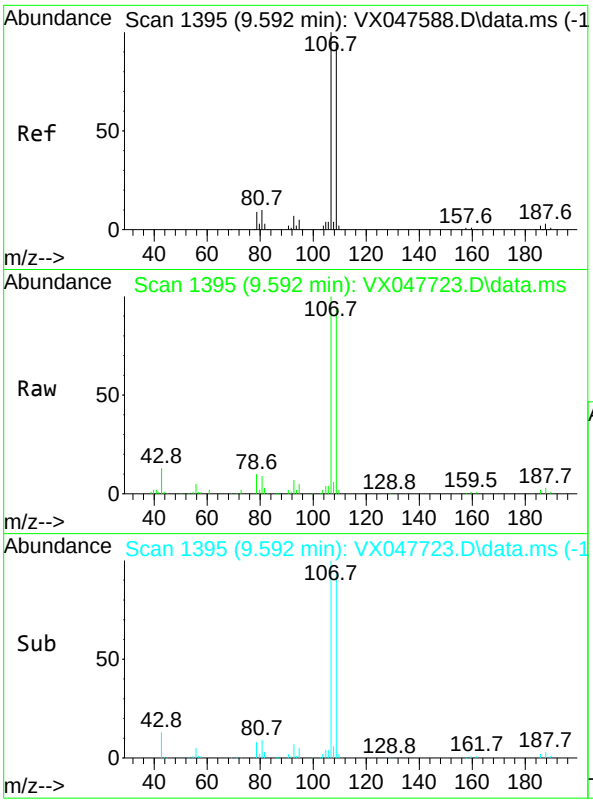


#60
Dibromochloromethane
Concen: 17.249 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:129 Resp: 45346

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.4	115.2

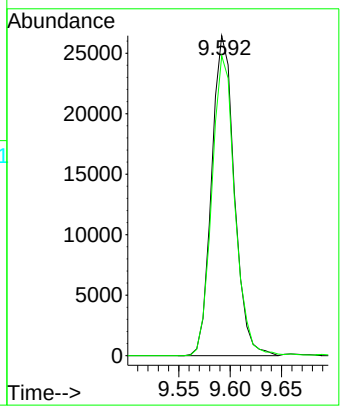




#61
1,2-Dibromoethane
Concen: 17.435 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:107 Resp: 4051

Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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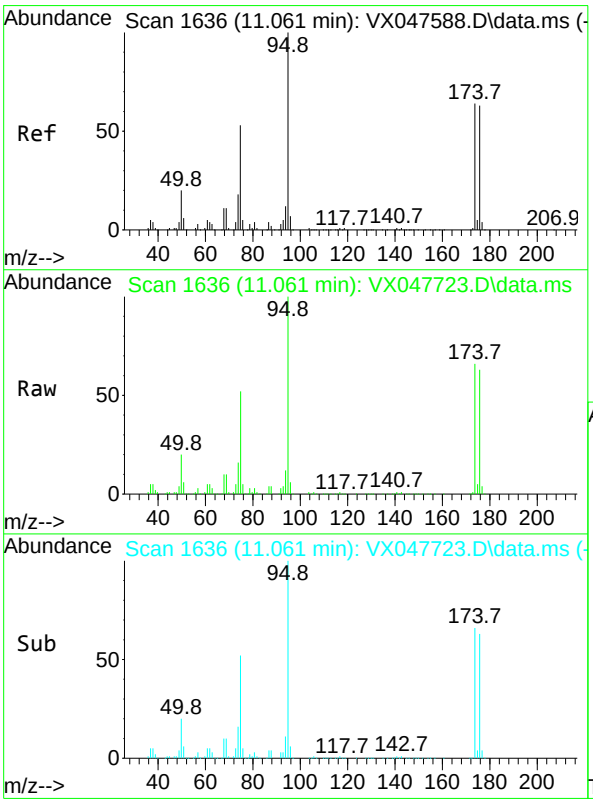
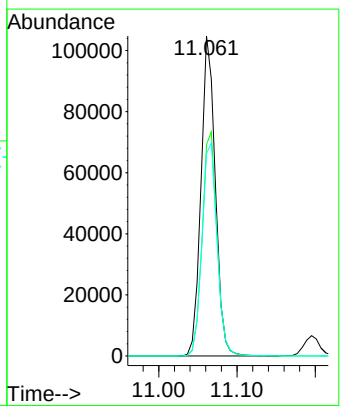
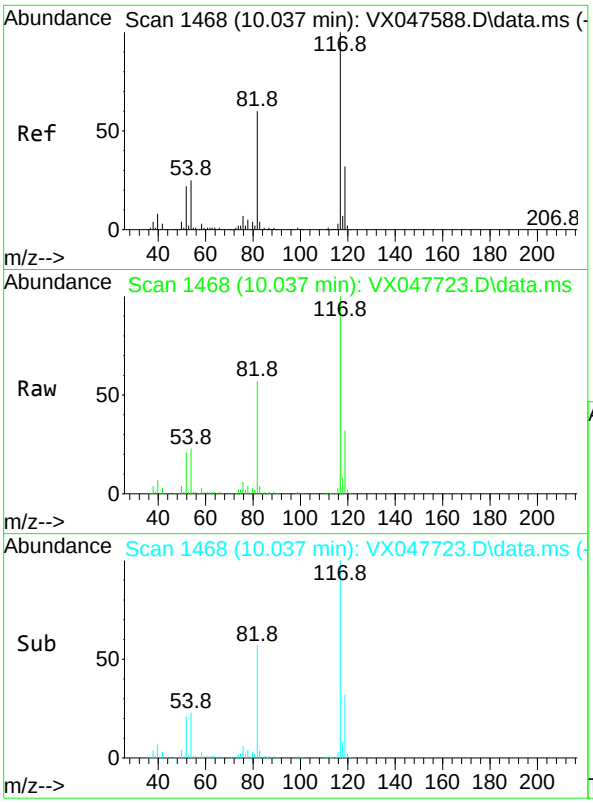


#62
4-Bromofluorobenzene
Concen: 46.772 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 95 Resp: 132914

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.6
176	70.0	0.0	138.4

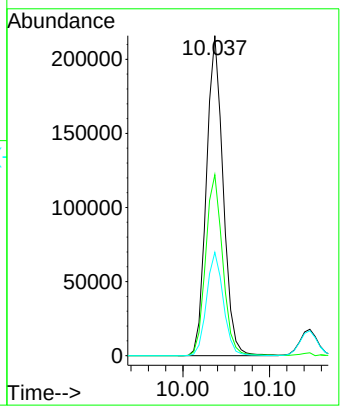




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 28979

Ion	Ratio	Lower	Upper
117	100		
82	56.6	47.8	71.6
119	32.3	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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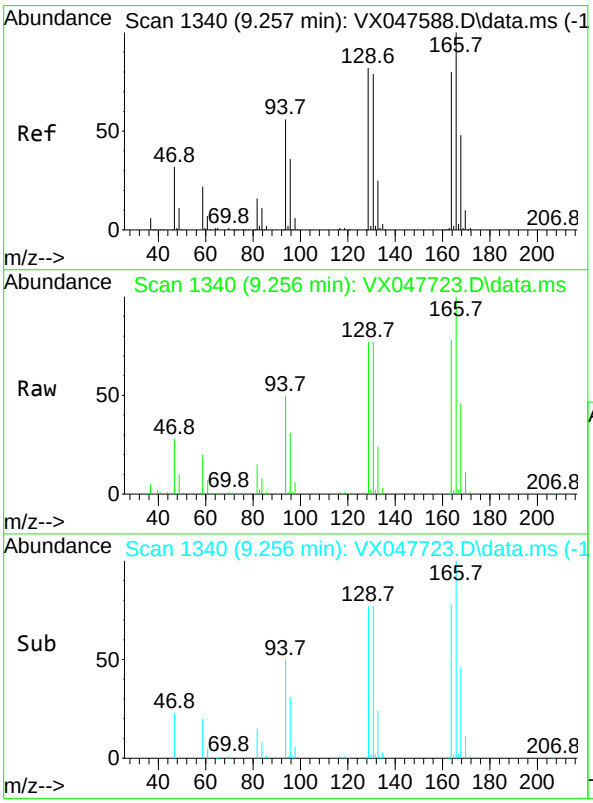
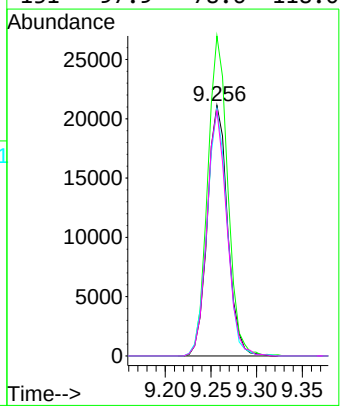
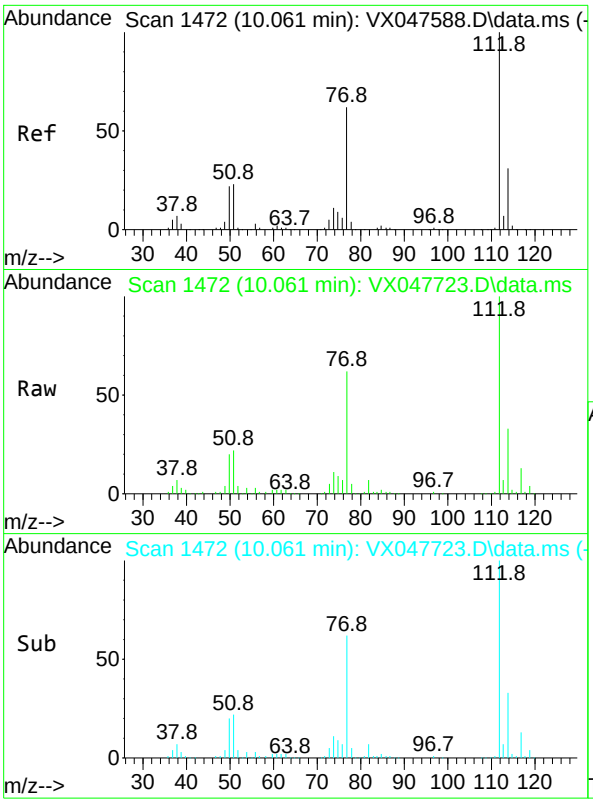


#64
Tetrachloroethene
Concen: 17.136 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:164 Resp: 32372

Ion	Ratio	Lower	Upper
164	100		
166	127.7	100.2	150.2
129	98.8	81.8	122.6
131	97.9	78.6	118.0

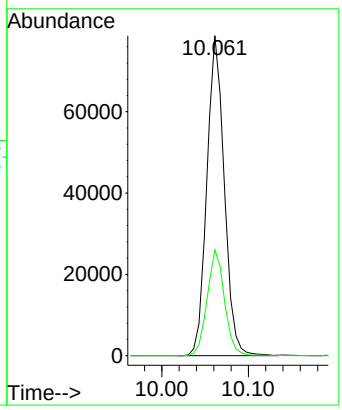




#65
Chlorobenzene
Concen: 16.694 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:112 Resp: 10990

Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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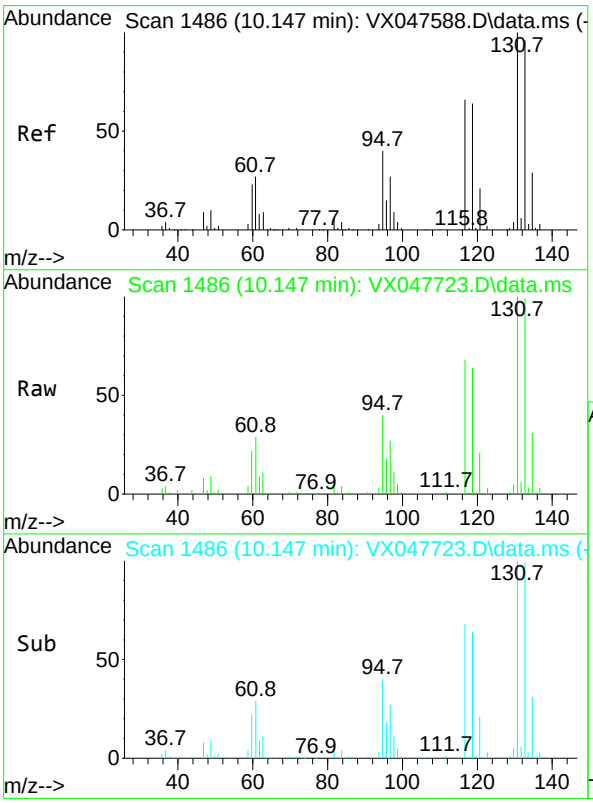
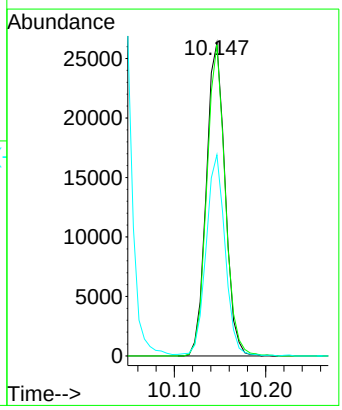
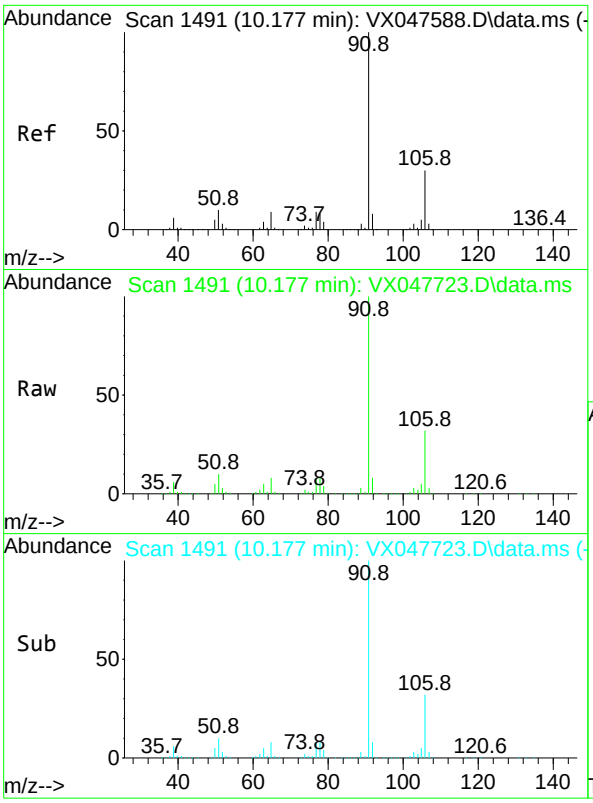


#66
1,1,1,2-Tetrachloroethane
Concen: 16.455 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:131 Resp: 37383

Ion	Ratio	Lower	Upper
131	100		
133	97.8	47.3	142.0
119	65.4	32.0	96.0





#67
Ethyl Benzene
Concen: 16.684 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 18952

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.3	36.5

Instrument :
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ClientSampleId :
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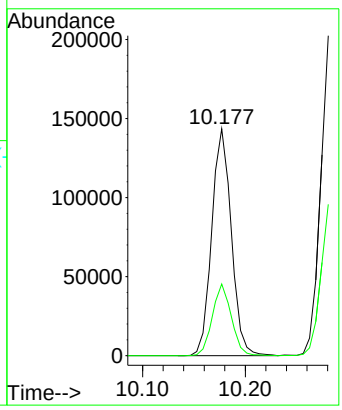
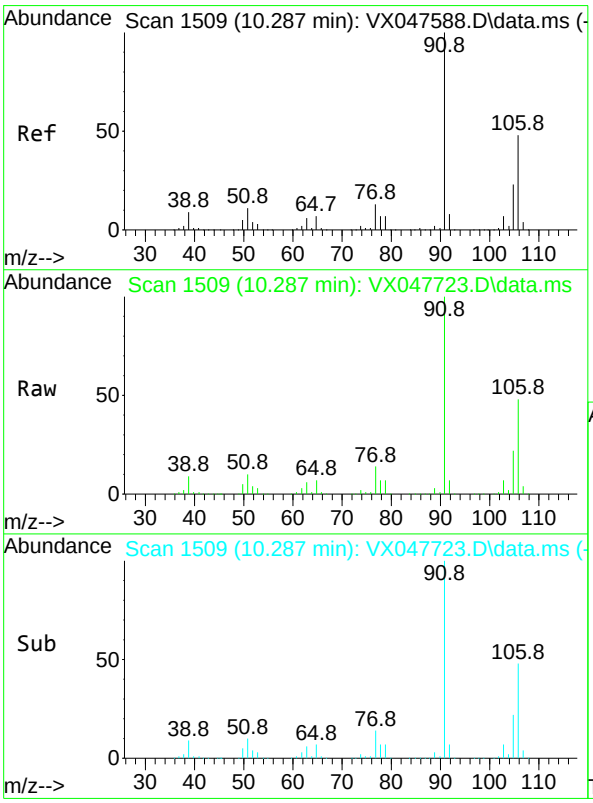
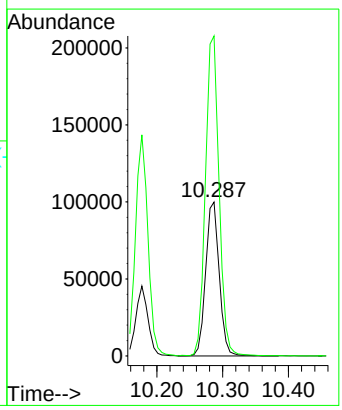


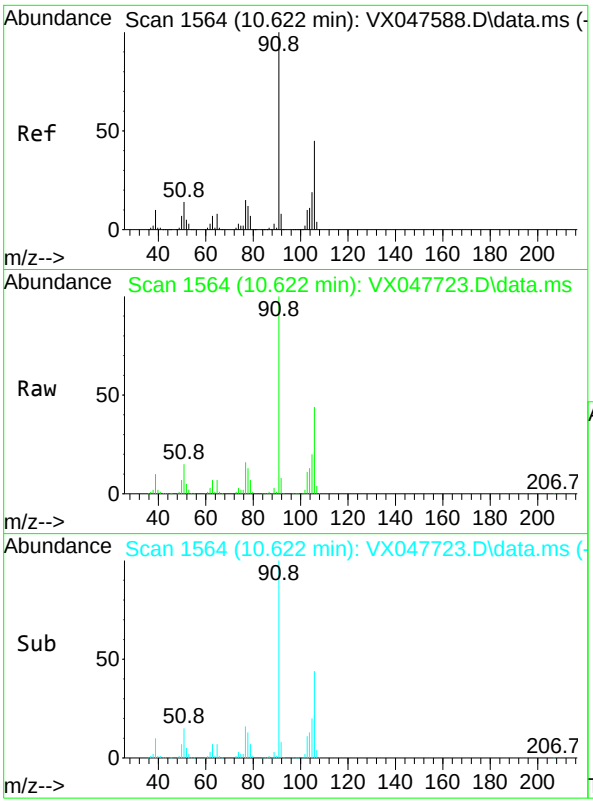


#68
m/p-Xylenes
Concen: 33.927 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:106 Resp: 143444

Ion	Ratio	Lower	Upper
106	100		
91	209.1	167.8	251.8

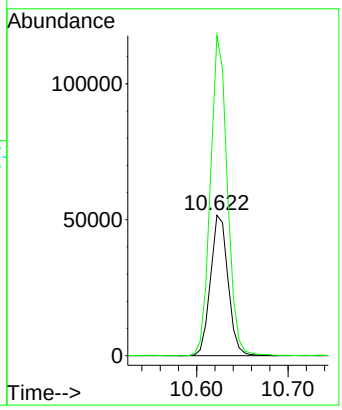




#69
o-Xylene
Concen: 16.861 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:106 Resp: 6895

Ion	Ratio	Lower	Upper
106	100		
91	220.7	111.1	333.4



Instrument :
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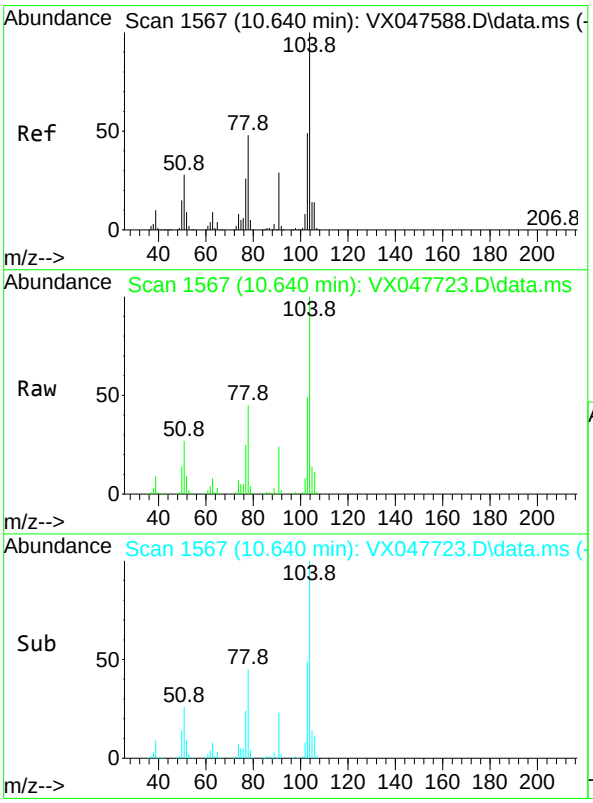
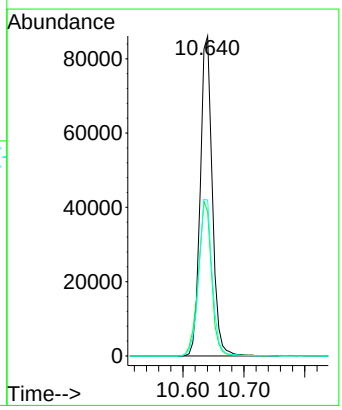
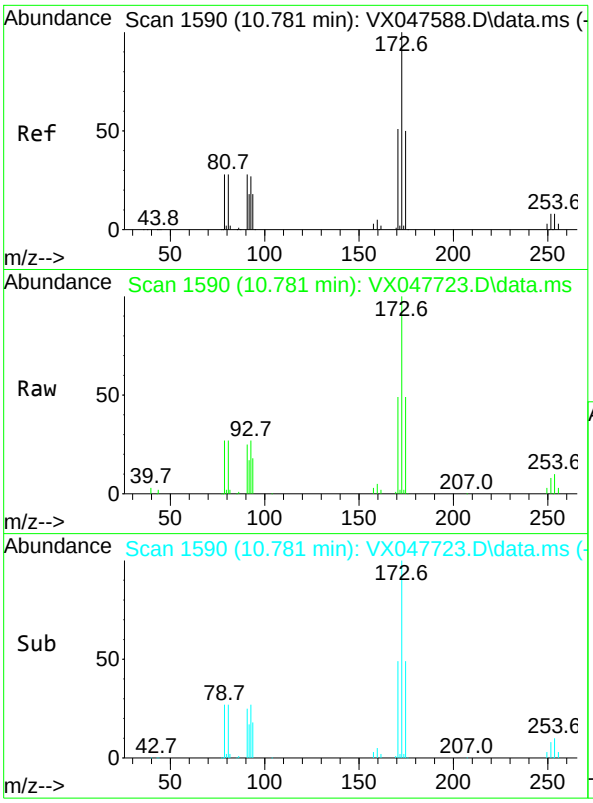


#70
Styrene
Concen: 16.552 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:104 Resp: 118603

Ion	Ratio	Lower	Upper
104	100		
78	53.0	43.1	64.7
103	54.4	43.1	64.7

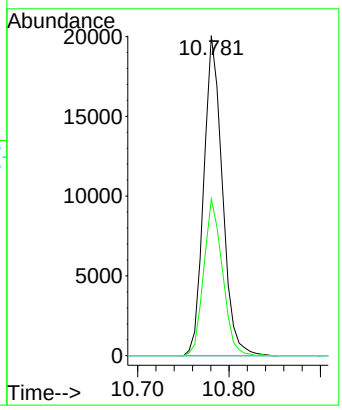




#71
Bromoform
Concen: 16.646 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:173 Resp: 2823

Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
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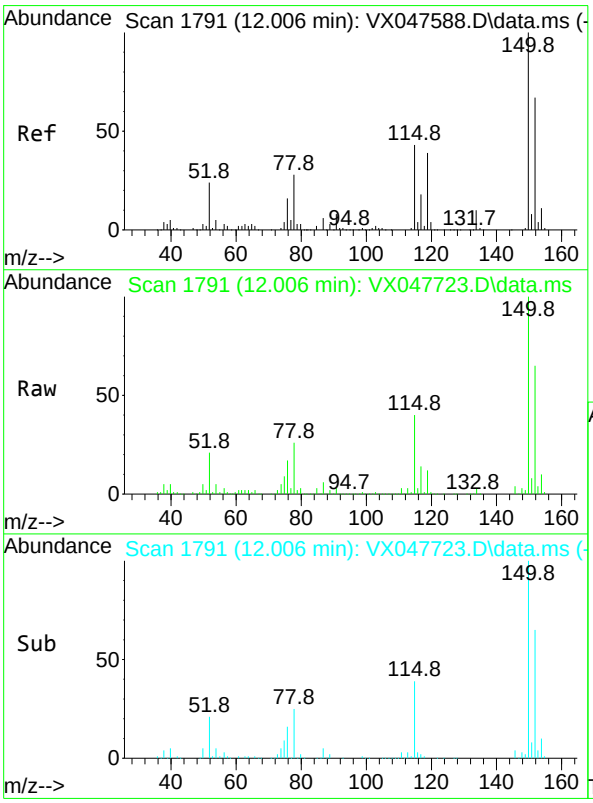
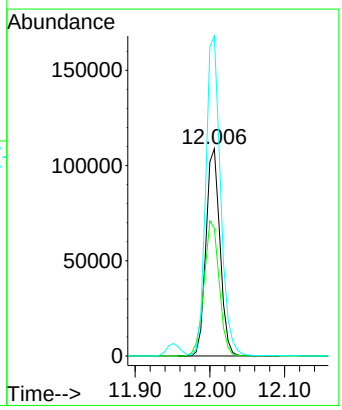
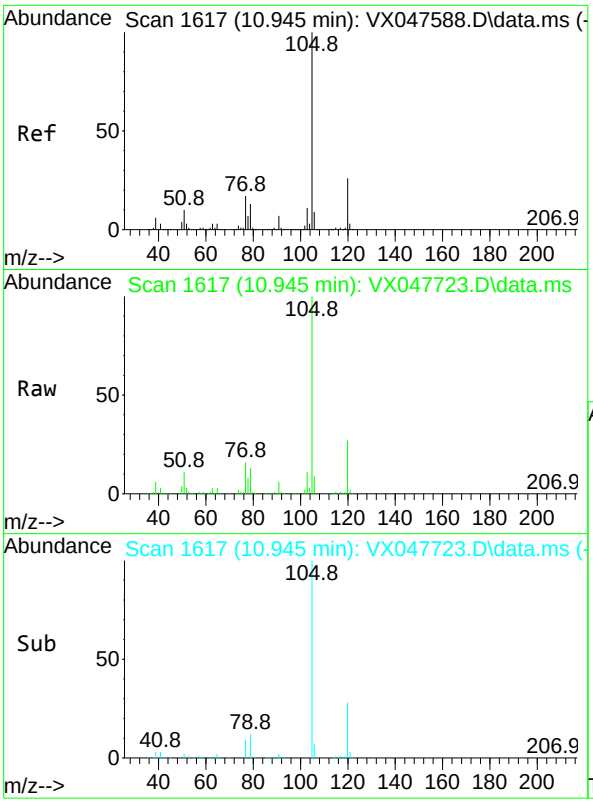


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:152 Resp: 141661

Ion	Ratio	Lower	Upper
152	100		
115	70.3	44.9	134.5
150	161.9	0.0	352.0

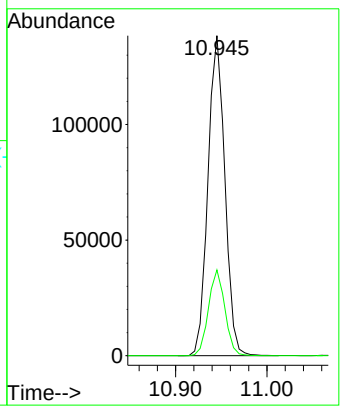




#73
Isopropylbenzene
Concen: 16.449 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 17715

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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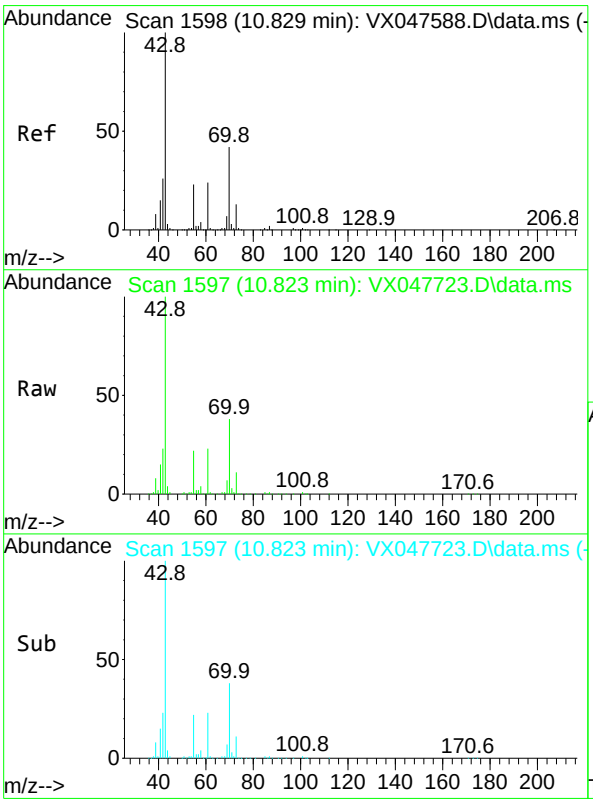
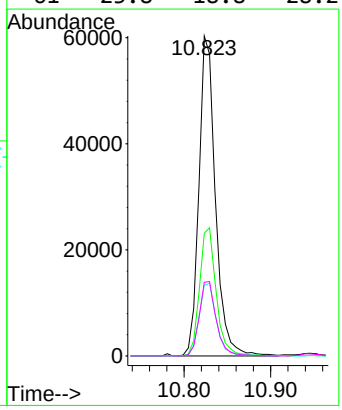
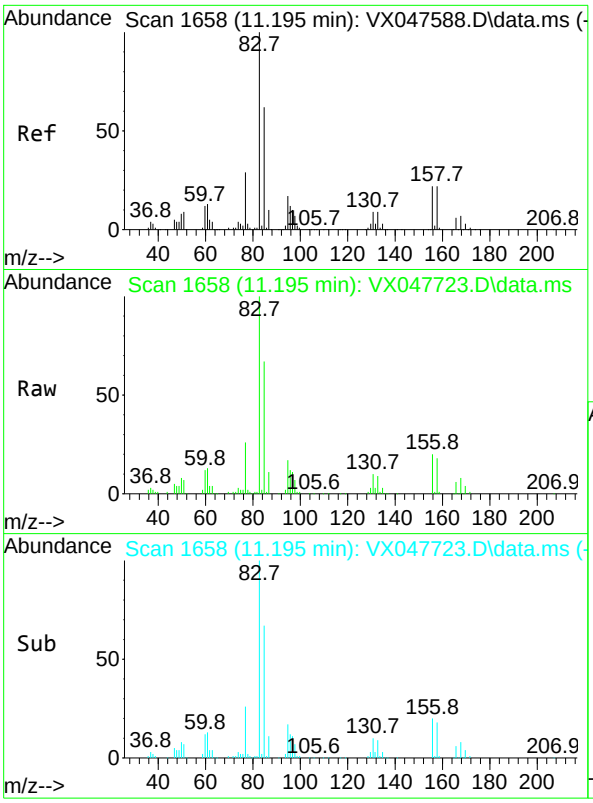


#74
N-amyl acetate
Concen: 16.296 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 80035

Ion	Ratio	Lower	Upper
43	100		
70	40.3	32.0	48.0
55	23.6	18.9	28.3
61	23.8	18.8	28.2

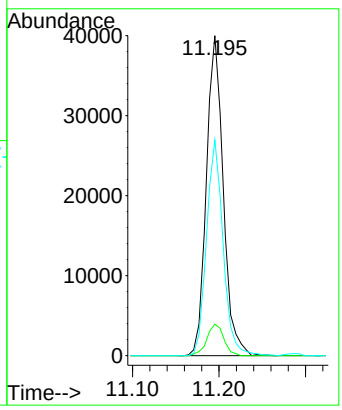




#75
1,1,2,2-Tetrachloroethane
Concen: 16.590 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 5405

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	66.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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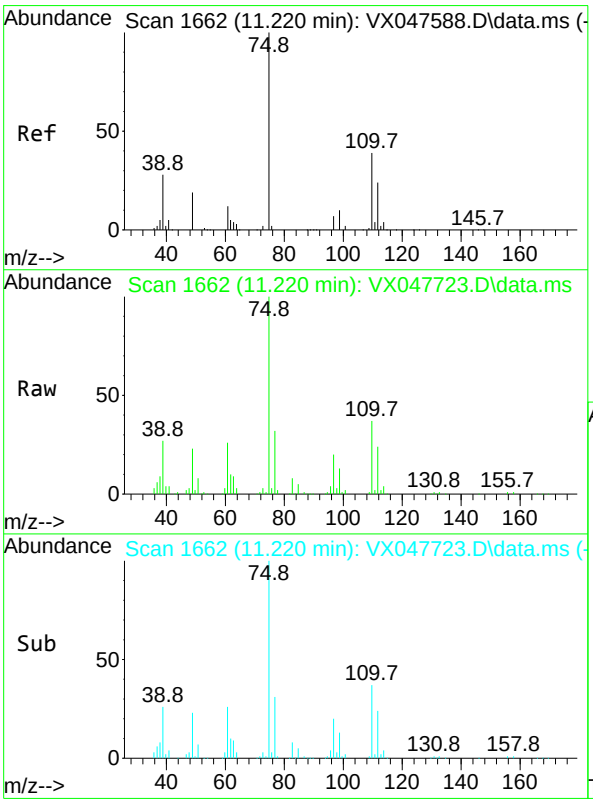
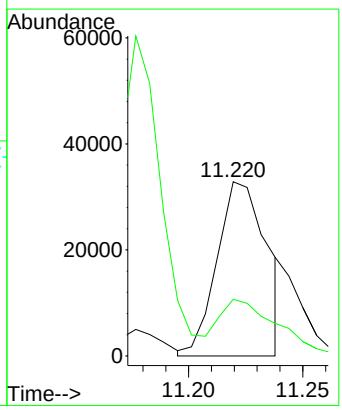
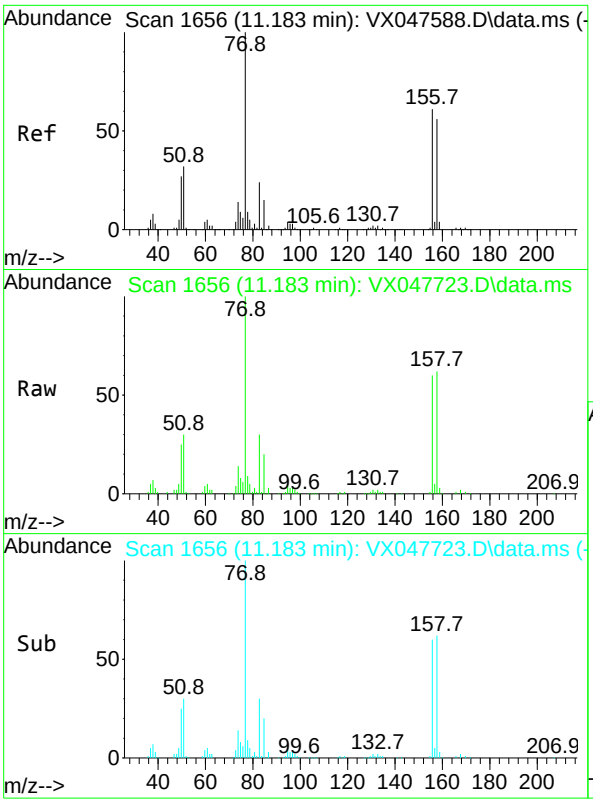


#76
1,2,3-Trichloropropane
Concen: 17.368 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 49816

Ion	Ratio	Lower	Upper
75	100		
77	37.6	18.8	56.4





#77
Bromobenzene
Concen: 16.287 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:156 Resp: 4320

Ion	Ratio	Lower	Upper
156	100		
77	181.8	89.7	269.1
158	98.4	47.9	143.6

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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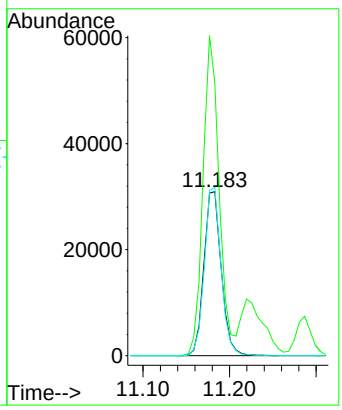
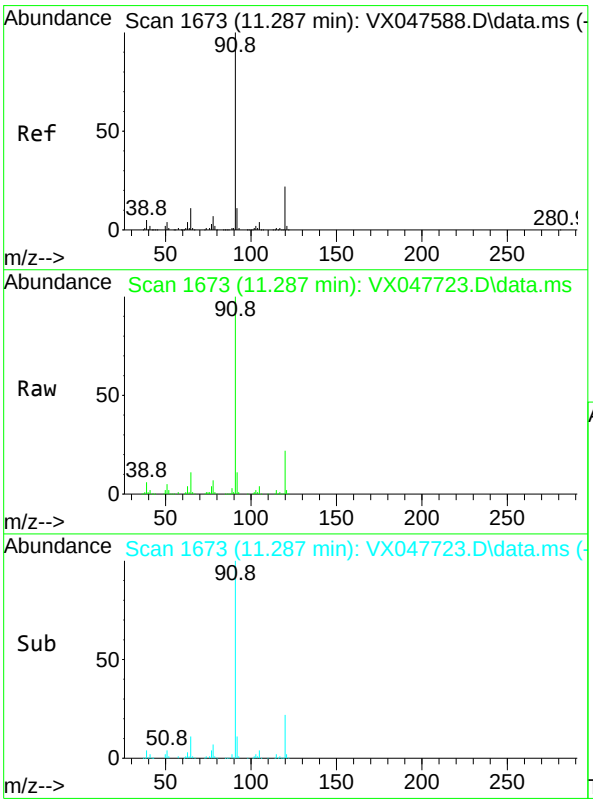
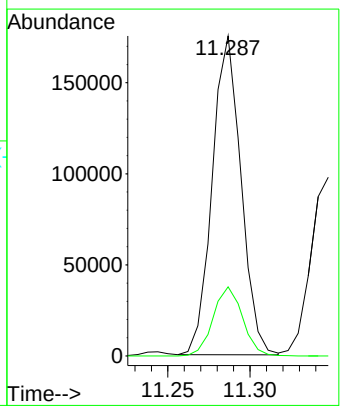


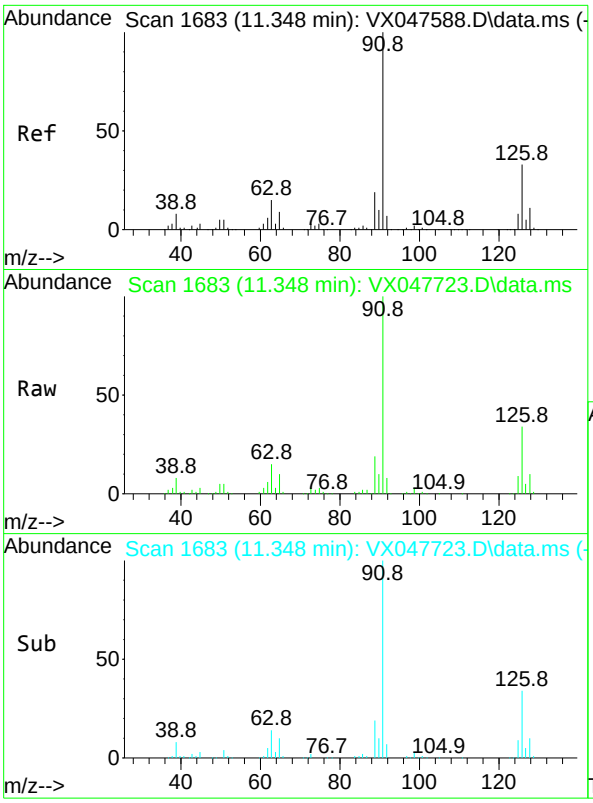


#78
n-propylbenzene
Concen: 16.736 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 213079

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1

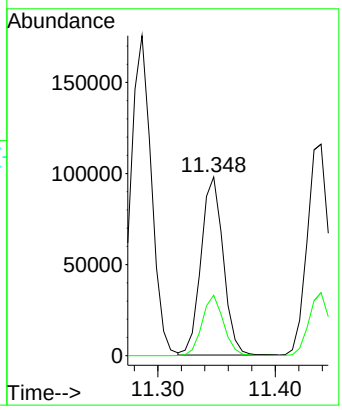




#79
2-Chlorotoluene
Concen: 16.446 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 12823

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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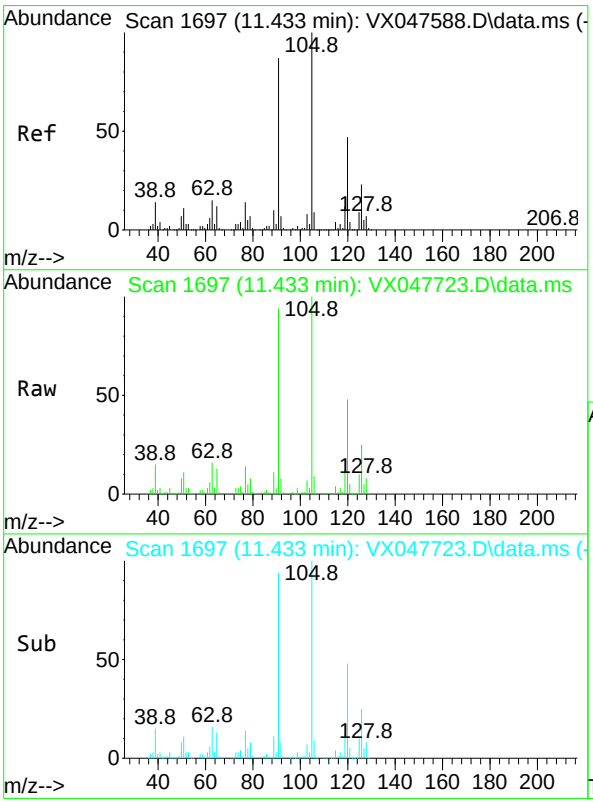
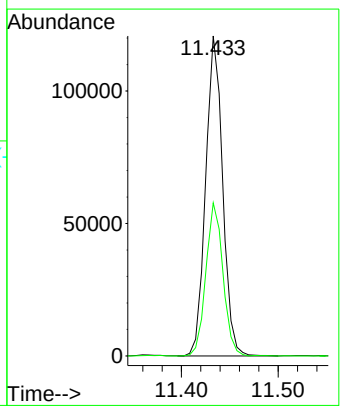
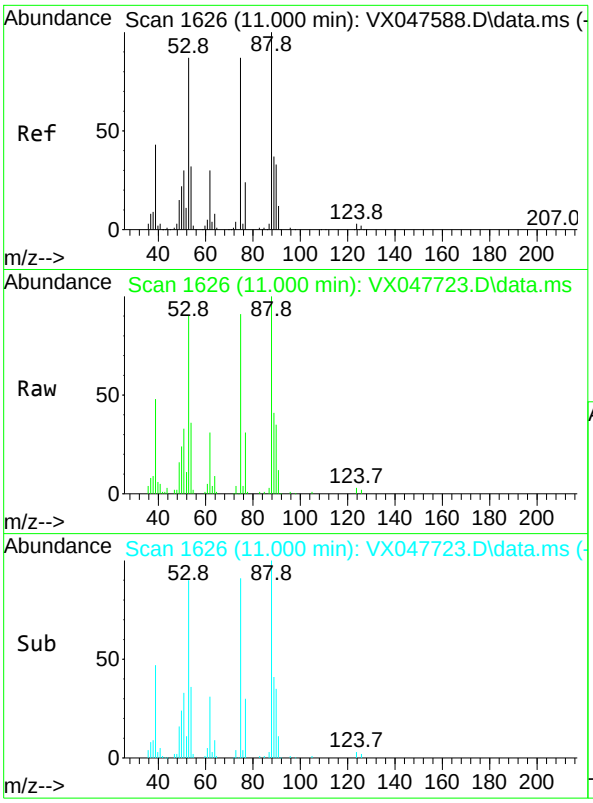


#80
1,3,5-Trimethylbenzene
Concen: 16.707 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 147832

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.6	70.8

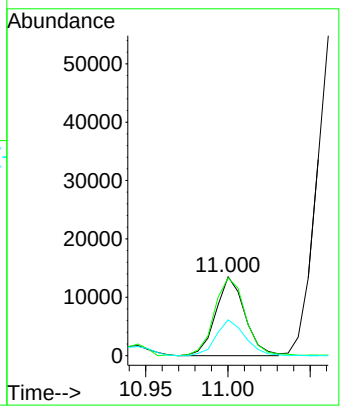




#81
trans-1,4-Dichloro-2-butene
Concen: 14.736 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 1657

Ion	Ratio	Lower	Upper
75	100		
53	105.6	83.4	125.2
89	45.5	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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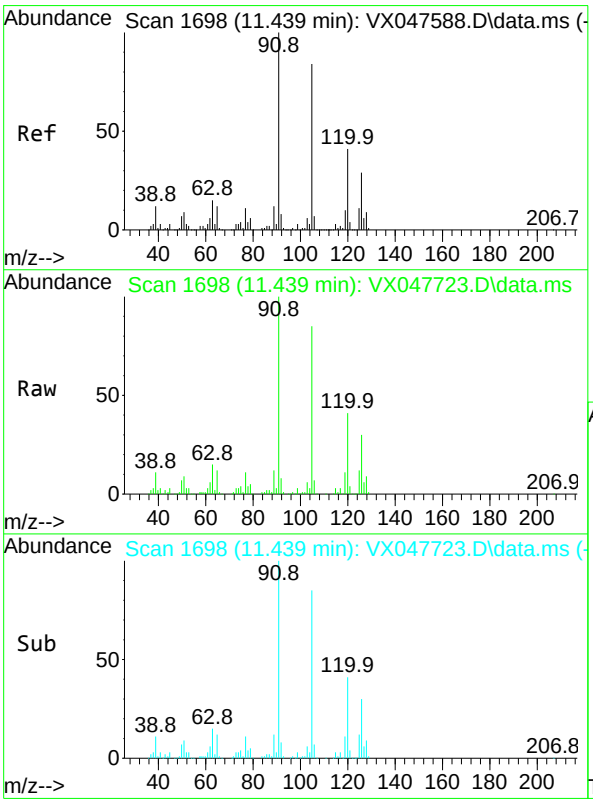
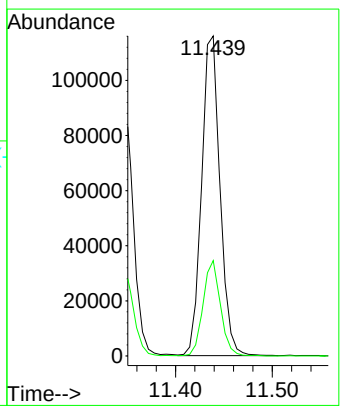
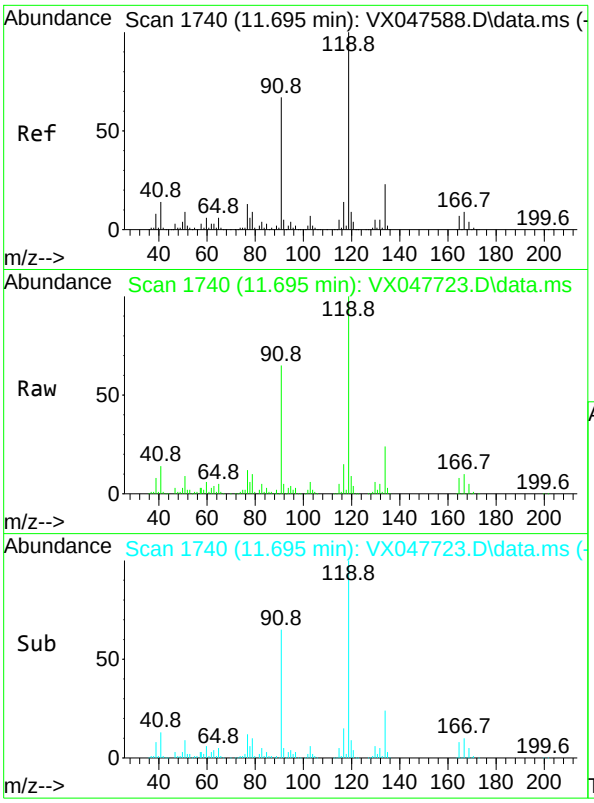


#82
4-Chlorotoluene
Concen: 16.677 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 153584

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.2	42.6

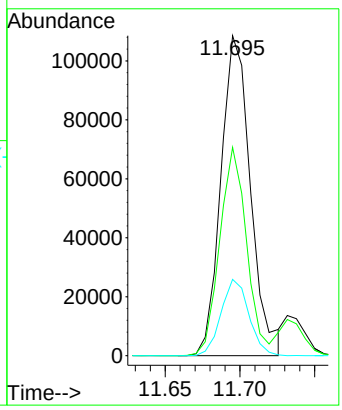




#83
tert-Butylbenzene
Concen: 16.497 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:119 Resp: 14943

Ion	Ratio	Lower	Upper
119	100		
91	59.0	29.6	88.8
134	22.4	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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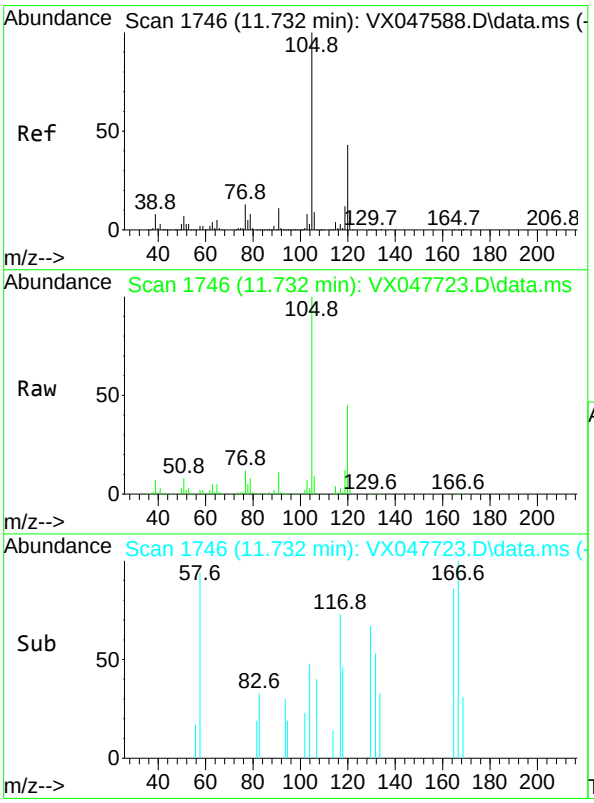
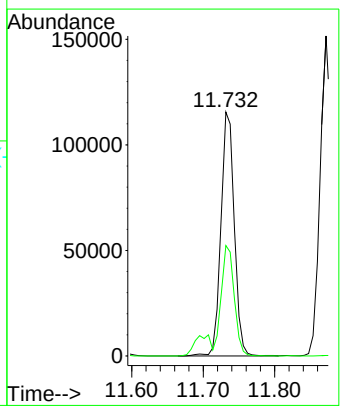
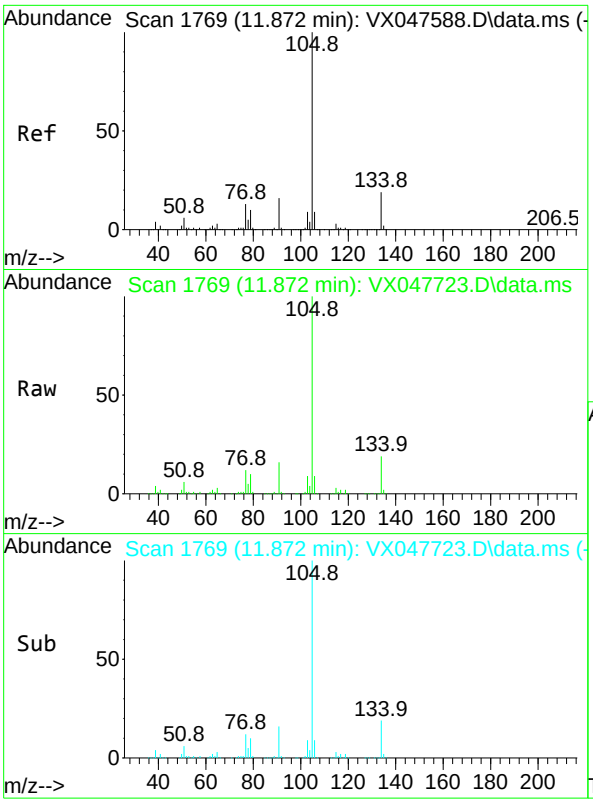


#84
1,2,4-Trimethylbenzene
Concen: 16.747 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 150232

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

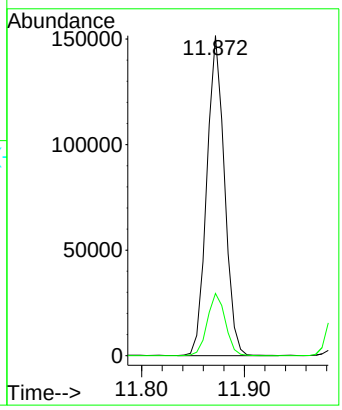




#85
sec-Butylbenzene
Concen: 16.825 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 18102

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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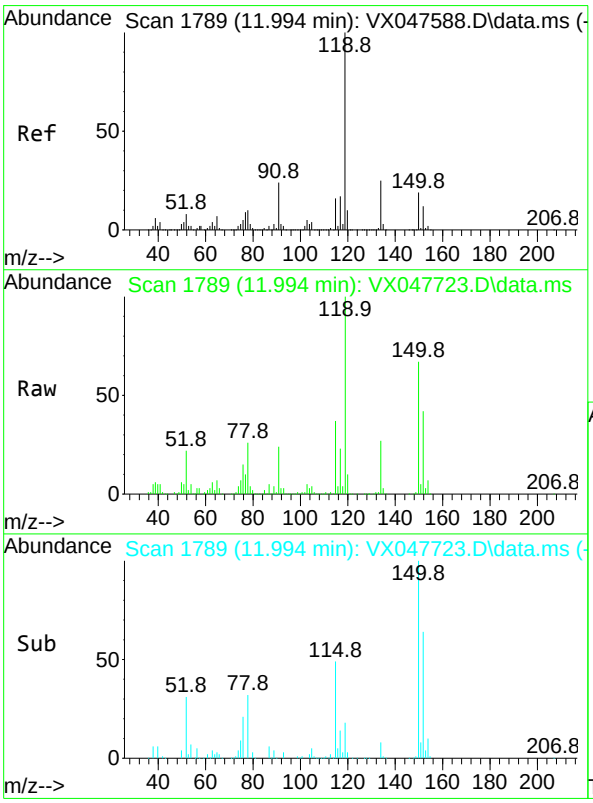
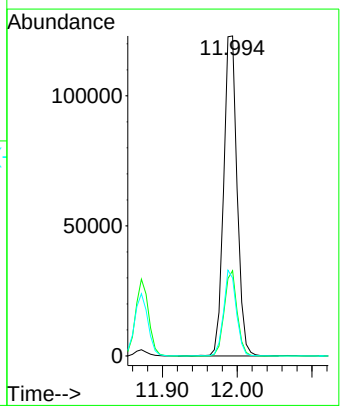
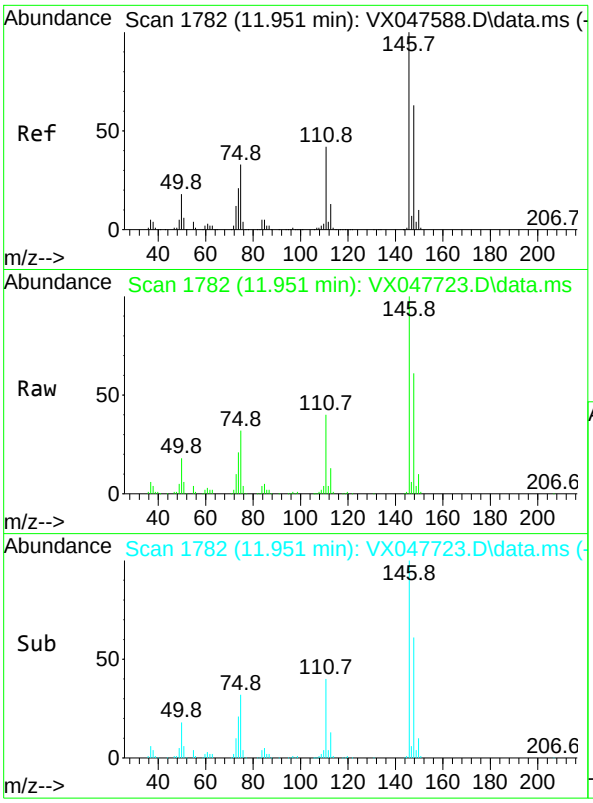


#86
p-Isopropyltoluene
Concen: 16.913 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:119 Resp: 154052

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.8
91	25.5	12.6	37.6

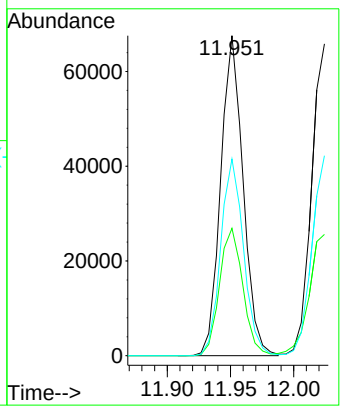




#87
1,3-Dichlorobenzene
Concen: 16.875 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:146 Resp: 8314

Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.5	64.5
148	62.7	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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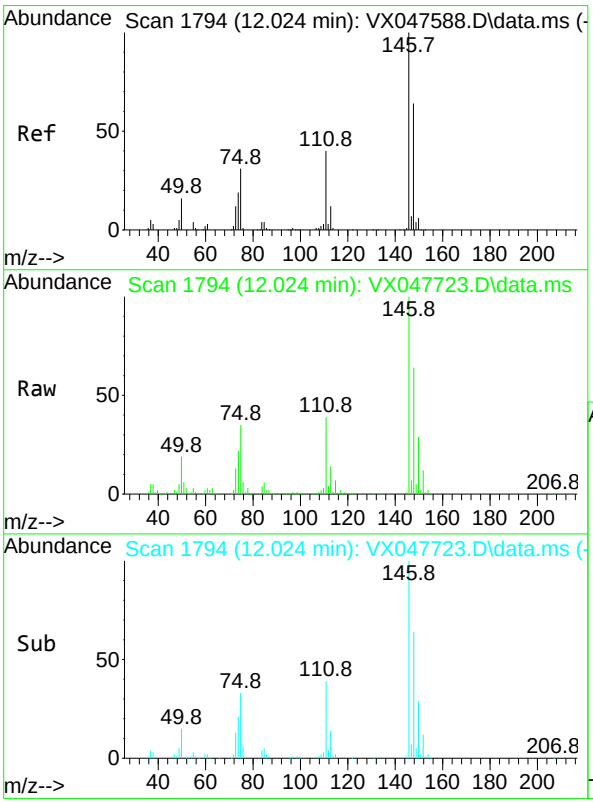
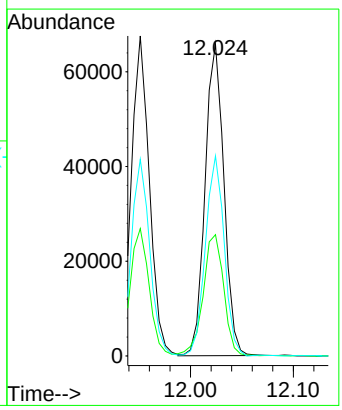
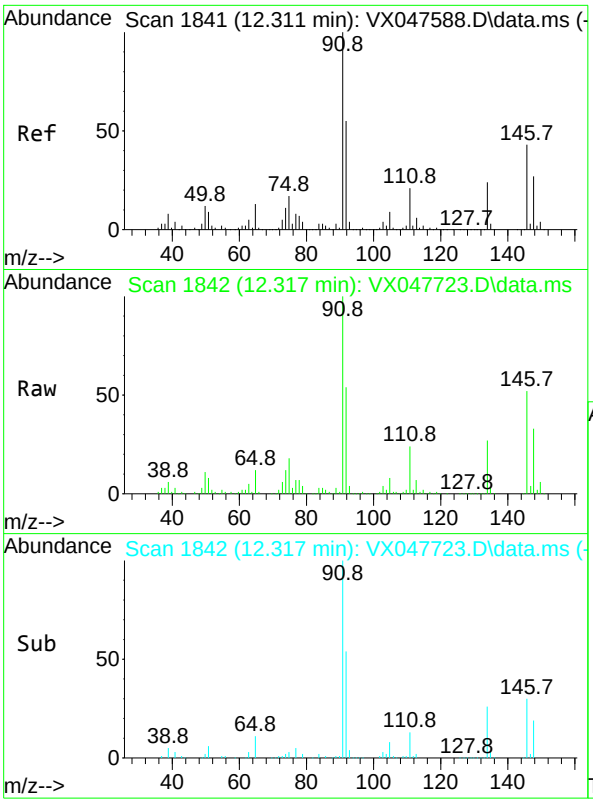


#88
1,4-Dichlorobenzene
Concen: 16.605 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:146 Resp: 83968

Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.8	62.4
148	63.9	31.7	95.1

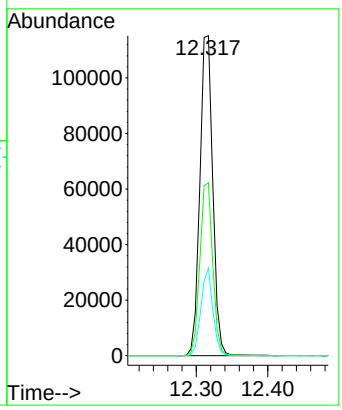




#89
n-Butylbenzene
Concen: 17.140 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 14446

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.6	82.7
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

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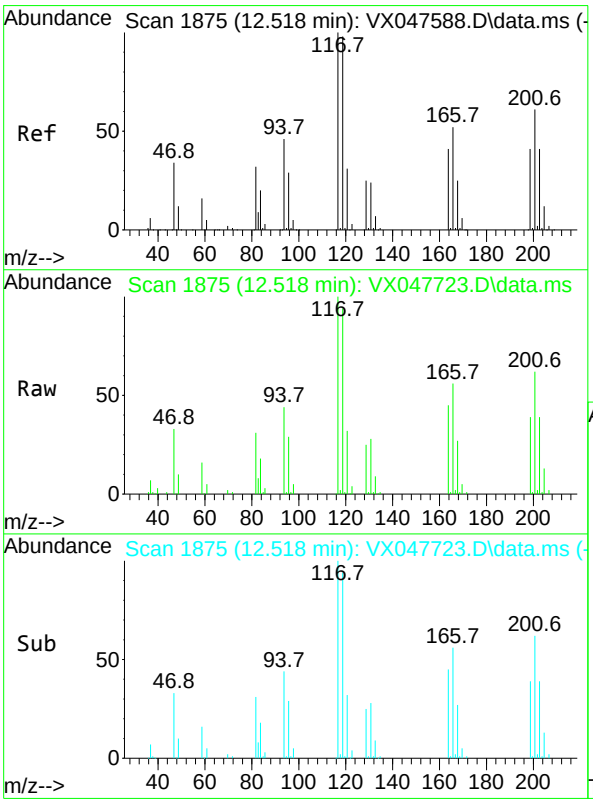
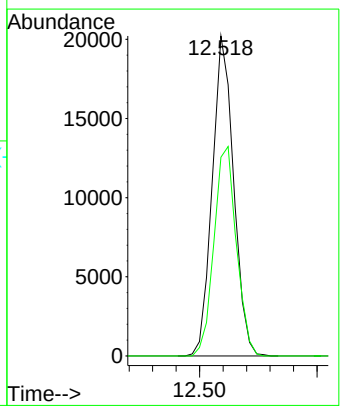
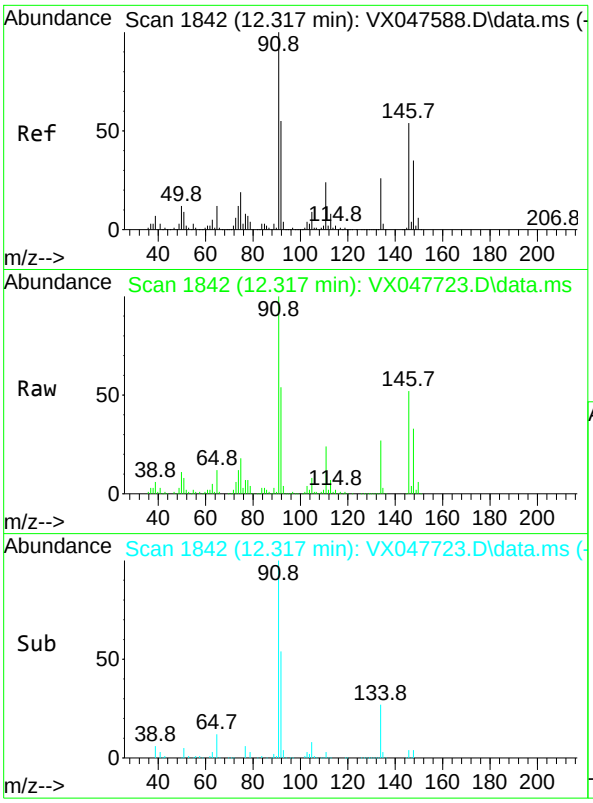


#90
Hexachloroethane
Concen: 15.981 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 25557

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5

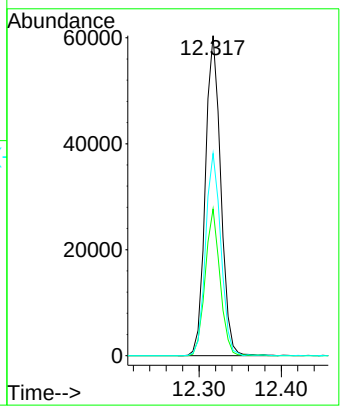




#91
1,2-Dichlorobenzene
Concen: 16.683 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:146 Resp: 7830

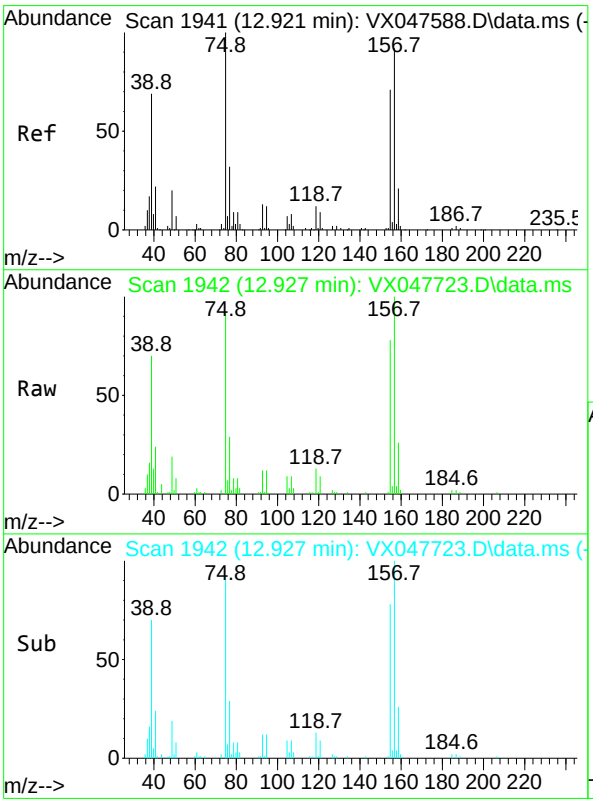
Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	62.9	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

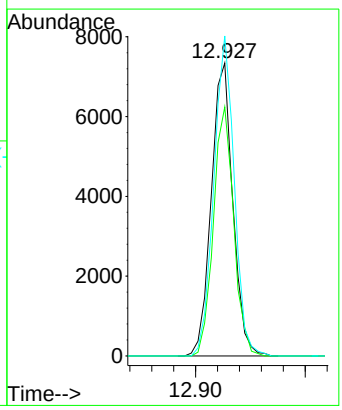
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

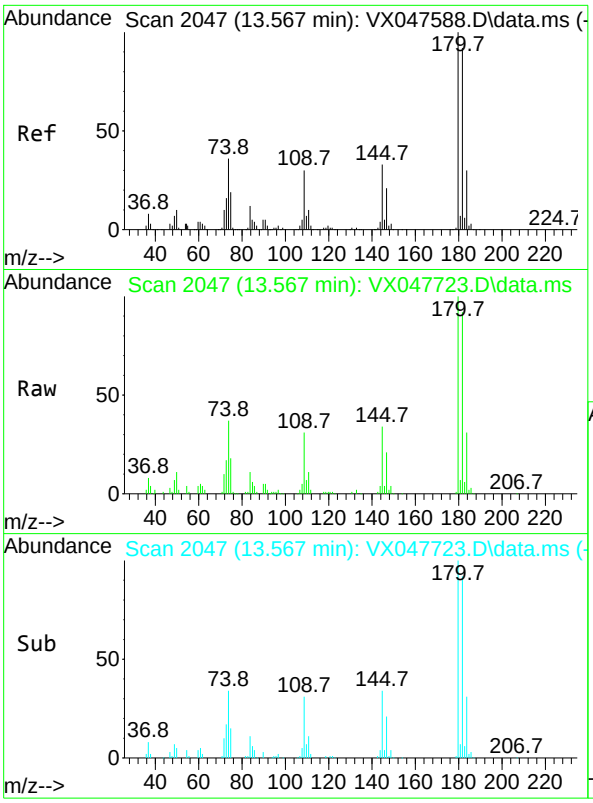


#92
1,2-Dibromo-3-Chloropropane
Concen: 15.194 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 10024

Ion	Ratio	Lower	Upper
75	100		
155	79.9	37.7	113.1
157	103.6	49.8	149.4

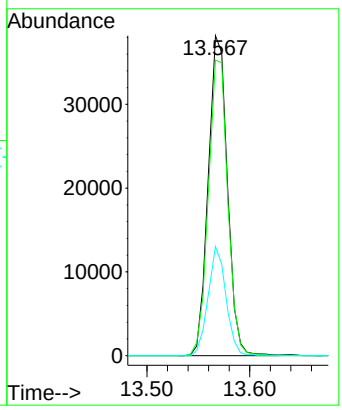




#93
1,2,4-Trichlorobenzene
Concen: 16.182 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:180 Resp: 4936

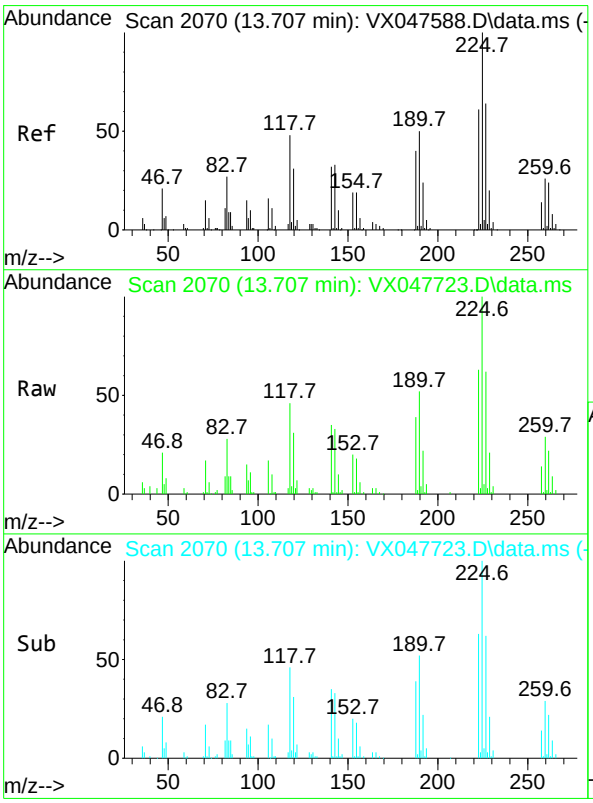
Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.6	139.8
145	31.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

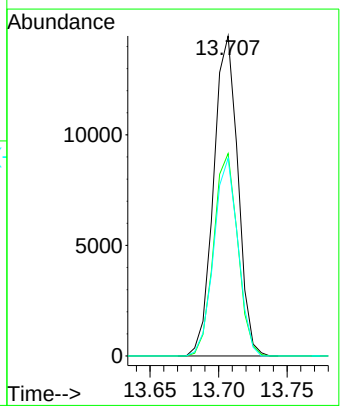
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

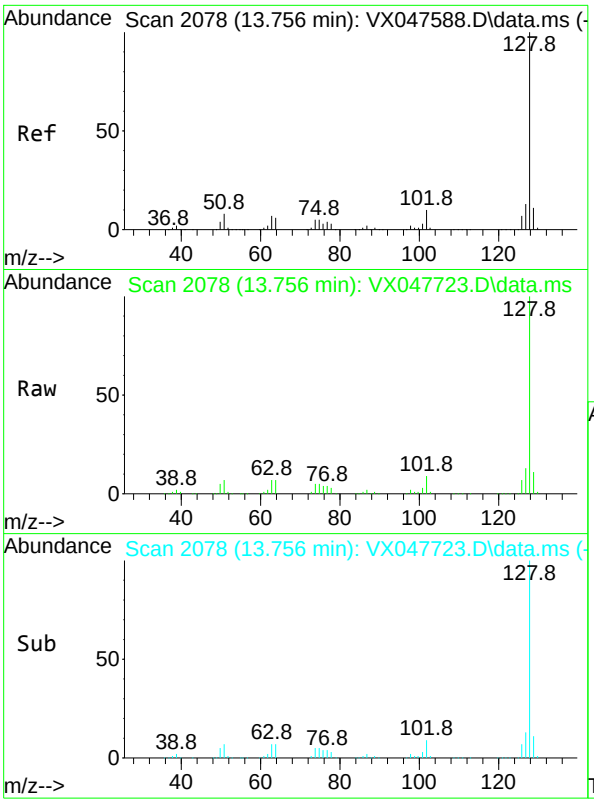


#94
Hexachlorobutadiene
Concen: 17.165 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:225 Resp: 17786

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.7	95.1
227	61.4	32.0	96.0

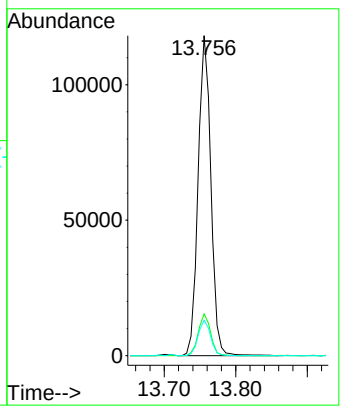




#95
Naphthalene
Concen: 15.742 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:128 Resp: 14623

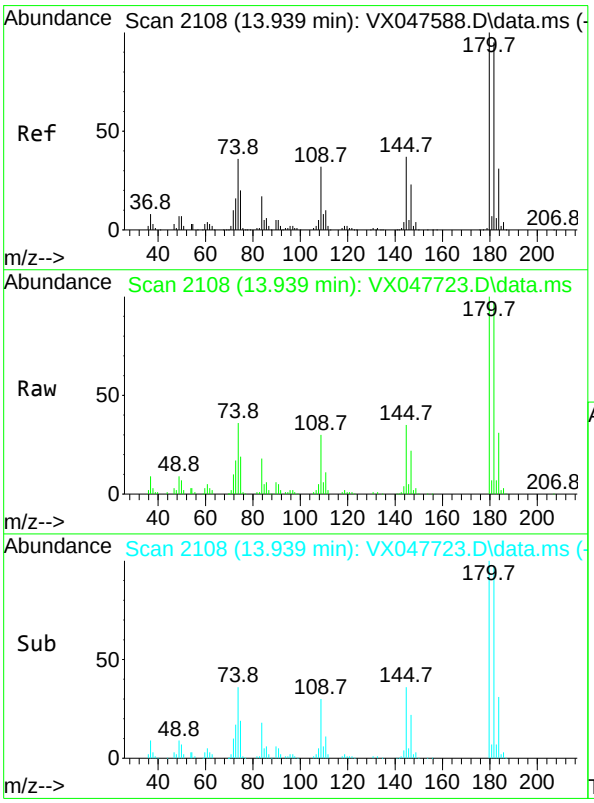
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Manual Integrations
APPROVED

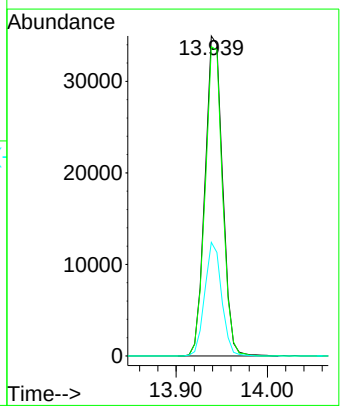
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 16.373 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:180 Resp: 46461

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.6	142.8
145	34.1	17.9	53.7



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBS03	SDG No.:	Q3097
Lab Sample ID:	VX0923WBS03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047748.D	1	09/24/25 03:53	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	23.6		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	21.7		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	22.4		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	23.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.0		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.9		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.2		0.23	0.75	1.00	ug/L
67-64-1	Acetone	87.7		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	20.9		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.6		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	22.4		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	20.7		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.4		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.0		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	20.9		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	110		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.9		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	19.1		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	21.3		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.2		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.1		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.9		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	21.3		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.0		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.7		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	21.1		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBS03	SDG No.:	Q3097
Lab Sample ID:	VX0923WBS03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047748.D	1	09/24/25 03:53	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.8		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.1		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.7		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	21.2		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.0		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	21.4		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.8		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	42.3		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.9		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.7		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	20.9		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.6		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.6		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.5		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.7		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.4		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.8		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.7		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.0		81 - 118		98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	157000	5.544				
540-36-3	1,4-Difluorobenzene	284000	6.751				
3114-55-4	Chlorobenzene-d5	254000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	124000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0923WBS03	SDG No.:	Q3097
Lab Sample ID:	VX0923WBS03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047748.D	1	09/24/25 03:53	VX092325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	156932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	284011	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	123765	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	122385	48.994	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.980%			
35) Dibromofluoromethane	5.373	113	96590	50.711	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.420%			
50) Toluene-d8	8.635	98	333541	50.607	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.220%			
62) 4-Bromofluorobenzene	11.061	95	127747	51.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	38327	23.585	ug/l	98
3) Chloromethane	1.301	50	46331	21.693	ug/l	95
4) Vinyl Chloride	1.380	62	46862	22.415	ug/l	97
5) Bromomethane	1.618	94	31202	23.536	ug/l	96
6) Chloroethane	1.697	64	29347	21.002	ug/l	95
7) Trichlorofluoromethane	1.898	101	64984	20.934	ug/l	98
8) Diethyl Ether	2.136	74	25934	20.423	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	38130	21.007	ug/l	100
10) Methyl Iodide	2.459	142	56731	20.040	ug/l	99
11) Tert butyl alcohol	2.941	59	29775	107.025	ug/l	100
12) 1,1-Dichloroethene	2.325	96	39463	21.165	ug/l	99
13) Acrolein	2.239	56	25496	99.449	ug/l	99
14) Allyl chloride	2.666	41	72907	18.949	ug/l	97
15) Acrylonitrile	3.056	53	116513	113.065	ug/l	99
16) Acetone	2.374	43	95237	87.685	ug/l	100
17) Carbon Disulfide	2.514	76	106524	20.869	ug/l	99
18) Methyl Acetate	2.703	43	54144	22.400	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	140115	20.586	ug/l	100
20) Methylene Chloride	2.788	84	47681	20.740	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	42881	21.362	ug/l	94
22) Diisopropyl ether	3.751	45	155798	20.894	ug/l #	82
23) Vinyl Acetate	3.715	43	617433	103.461	ug/l	100
24) 1,1-Dichloroethane	3.605	63	83274	21.012	ug/l	100
25) 2-Butanone	4.544	43	144925	106.972	ug/l	96
26) 2,2-Dichloropropane	4.471	77	42968	13.043	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	51366	20.894	ug/l	95
28) Bromochloromethane	4.891	49	33021	19.085	ug/l	100
29) Tetrahydrofuran	4.989	42	93114	114.248	ug/l	99
30) Chloroform	5.087	83	85486	21.345	ug/l	96
31) Cyclohexane	5.464	56	69116	20.939	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	71907	21.168	ug/l	99
36) 1,1-Dichloropropene	5.678	75	56214	20.197	ug/l	98
37) Ethyl Acetate	4.702	43	63237	21.220	ug/l	100
38) Carbon Tetrachloride	5.666	117	59490	19.672	ug/l	96
39) Methylcyclohexane	7.367	83	63625	20.138	ug/l	94
40) Benzene	6.025	78	176451	20.873	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	33379	21.696	ug/l		99
42) 1,2-Dichloroethane	6.074	62	65506	20.366	ug/l		98
43) Isopropyl Acetate	6.330	43	102233	20.917	ug/l		99
44) Trichloroethene	7.117	130	43438	21.254	ug/l		88
45) 1,2-Dichloropropane	7.415	63	45508	21.024	ug/l		97
46) Dibromomethane	7.568	93	32646	20.725	ug/l		97
47) Bromodichloromethane	7.806	83	67223	20.681	ug/l		99
48) Methyl methacrylate	7.678	41	49967	20.524	ug/l		97
49) 1,4-Dioxane	7.653	88	12395	503.790	ug/l		98
51) 4-Methyl-2-Pentanone	8.561	43	310191	114.468	ug/l		100
52) Toluene	8.702	92	109881	21.098	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	62267	18.780	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	67811	19.135	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	43533	21.677	ug/l		98
56) Ethyl methacrylate	9.104	69	67219	21.313	ug/l		96
57) 1,3-Dichloropropane	9.293	76	74746	21.667	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	148860	105.735	ug/l		100
59) 2-Hexanone	9.415	43	217174	111.587	ug/l		99
60) Dibromochloromethane	9.506	129	48986	21.170	ug/l		99
61) 1,2-Dibromoethane	9.592	107	45047	22.022	ug/l		99
64) Tetrachloroethene	9.256	164	35498	21.442	ug/l		100
65) Chlorobenzene	10.061	112	119644	20.738	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.147	131	41811	21.001	ug/l		99
67) Ethyl Benzene	10.177	91	206630	20.757	ug/l		99
68) m/p-Xylenes	10.287	106	156597	42.264	ug/l		98
69) o-Xylene	10.622	106	75062	20.945	ug/l		99
70) Styrene	10.640	104	129679	20.651	ug/l		99
71) Bromoform	10.781	173	31001	20.854	ug/l	#	100
73) Isopropylbenzene	10.945	105	193342	20.548	ug/l		100
74) N-amyl acetate	10.829	43	88563	20.640	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	61446	21.584	ug/l		97
76) 1,2,3-Trichloropropane	11.220	75	48514m	19.360	ug/l		
77) Bromobenzene	11.183	156	48182	20.791	ug/l		97
78) n-propylbenzene	11.287	91	228489	20.542	ug/l		100
79) 2-Chlorotoluene	11.348	91	140664	20.647	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	160516	20.764	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	15843	16.123	ug/l		97
82) 4-Chlorotoluene	11.439	91	166032	20.635	ug/l		99
83) tert-Butylbenzene	11.695	119	160239	20.248	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	161967	20.665	ug/l		100
85) sec-Butylbenzene	11.872	105	196176	20.870	ug/l		99
86) p-Isopropyltoluene	11.994	119	161751	20.326	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	88665	20.598	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	90738	20.539	ug/l		99
89) n-Butylbenzene	12.311	91	148126	20.116	ug/l		98
90) Hexachloroethane	12.518	117	28222	20.199	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	84704	20.655	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	11756	20.397	ug/l		94
93) 1,2,4-Trichlorobenzene	13.567	180	52777	19.802	ug/l		99
94) Hexachlorobutadiene	13.707	225	18191	20.094	ug/l		98
95) Naphthalene	13.756	128	164732	20.298	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	51341	20.708	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
VX0923WBS03

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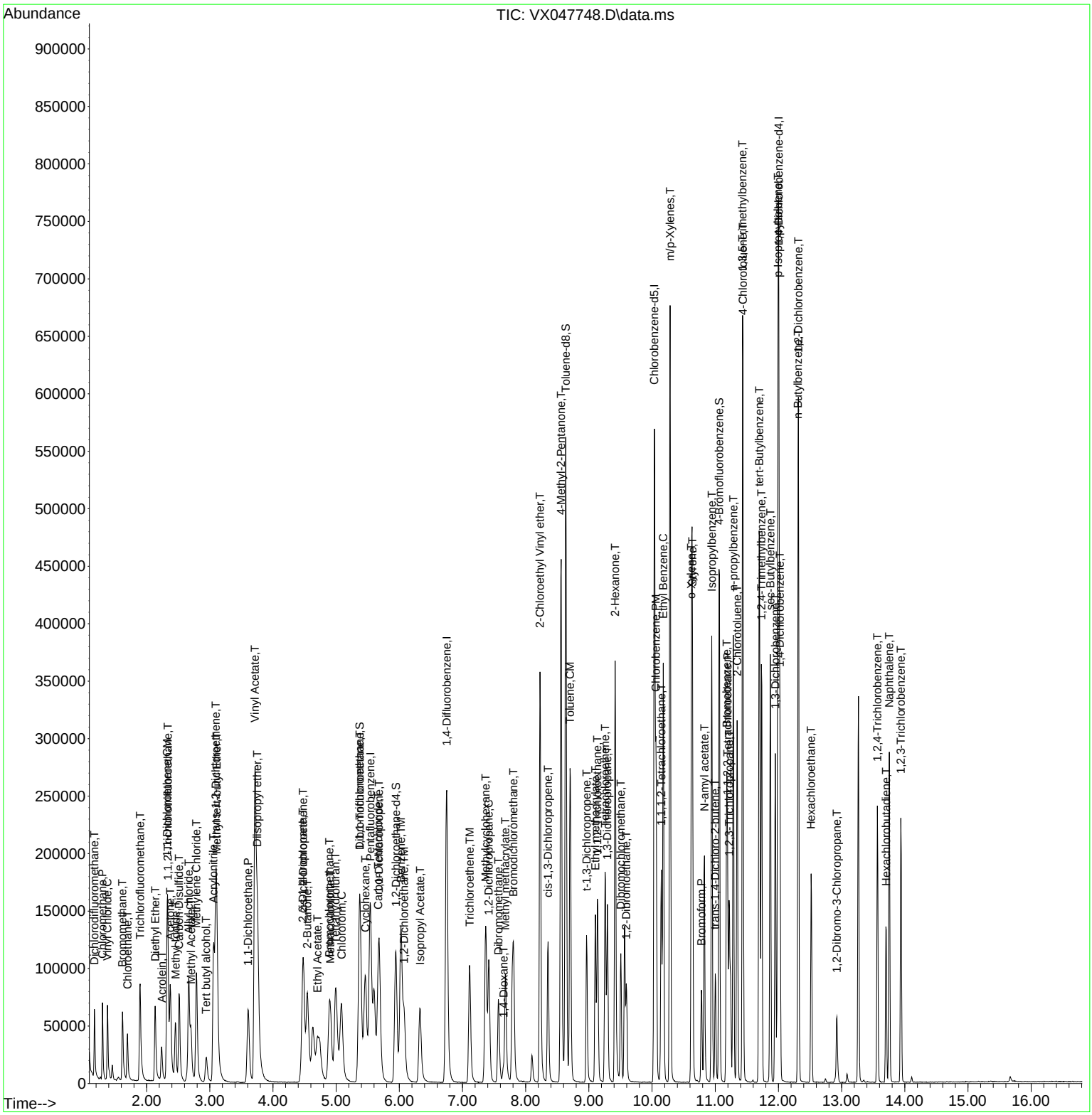
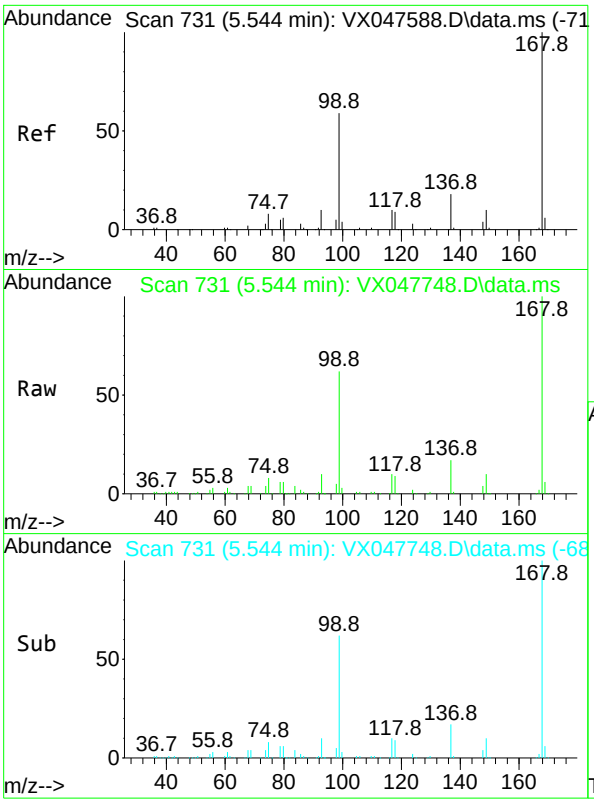
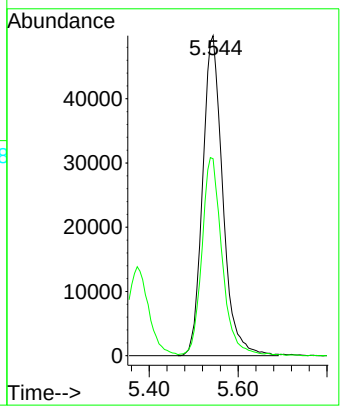




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:168 Resp: 15693

Ion	Ratio	Lower	Upper
168	100		
99	61.3	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
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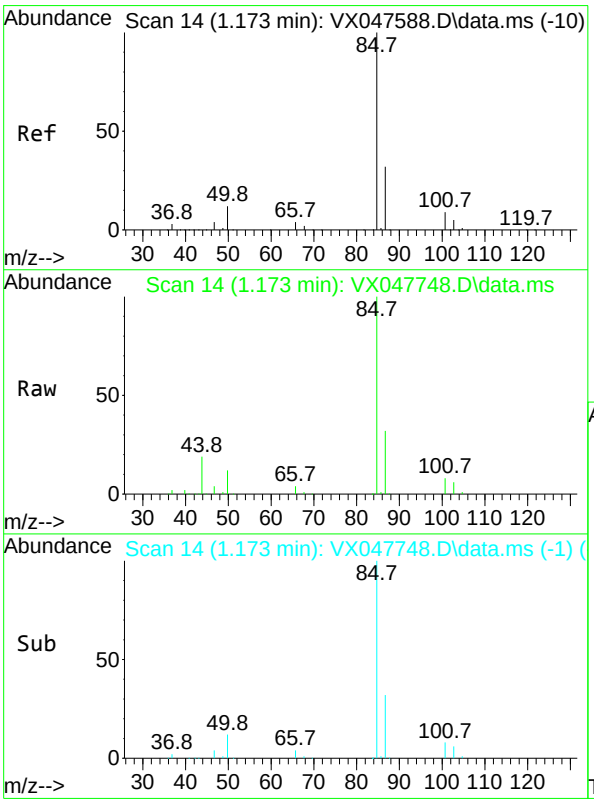
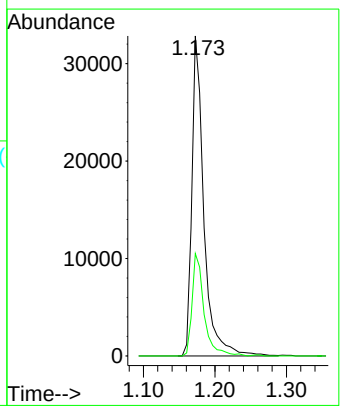
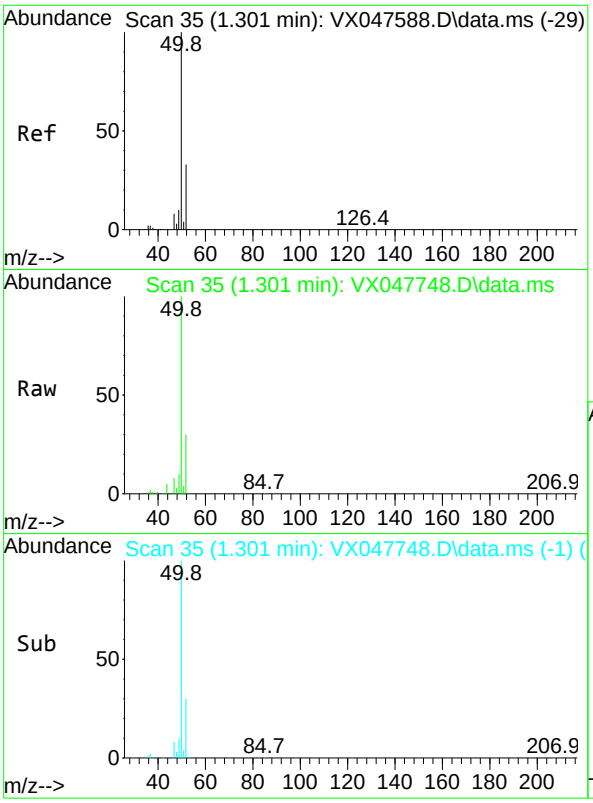


#2
Dichlorodifluoromethane
Concen: 23.585 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 85 Resp: 38327

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.8	47.3

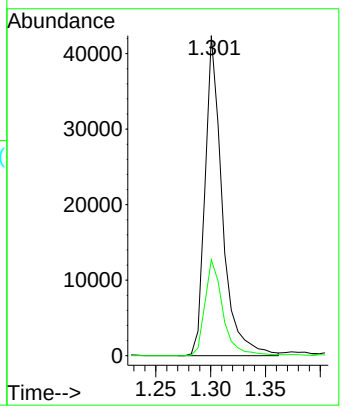




#3
Chloromethane
Concen: 21.693 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 50 Resp: 4633

Ion	Ratio	Lower	Upper
50	100		
52	30.0	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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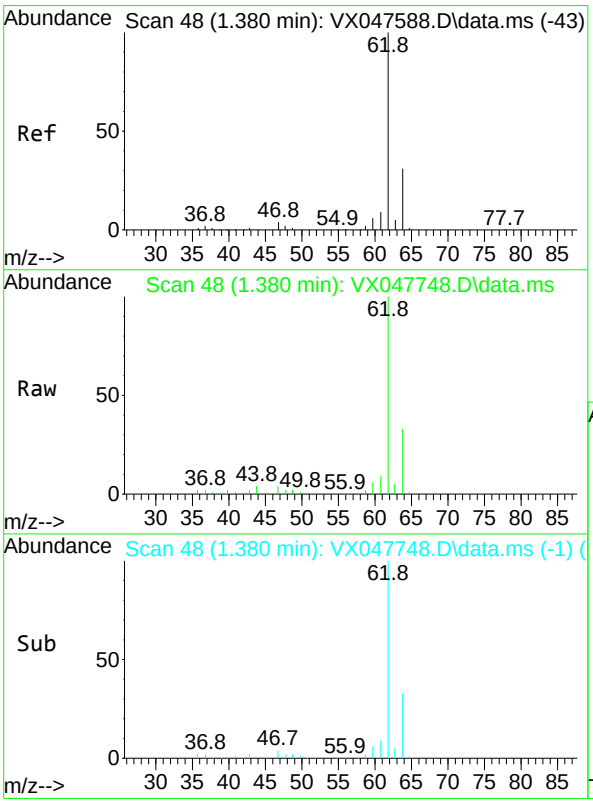
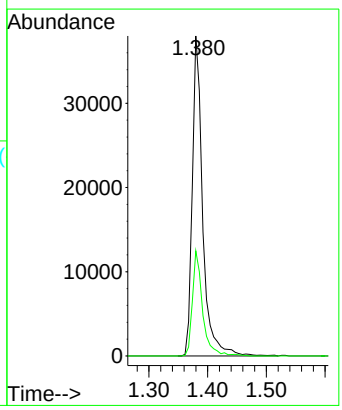
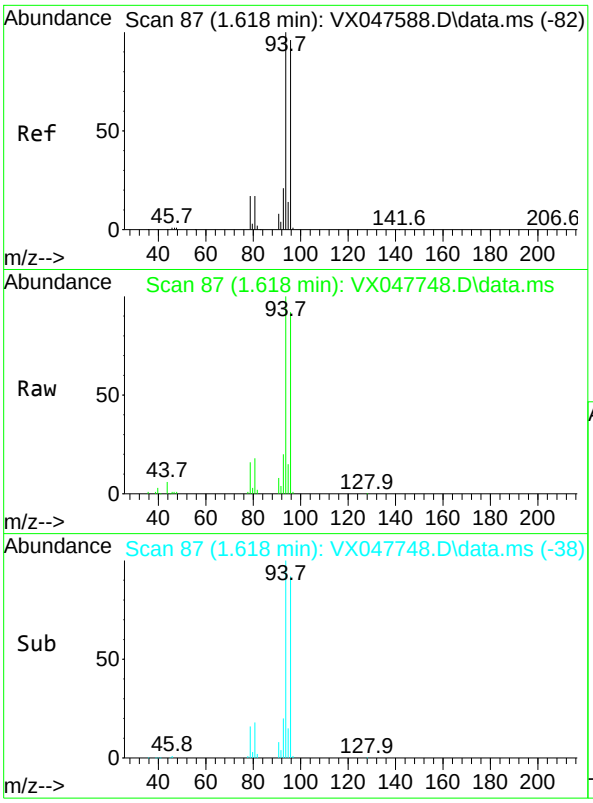


#4
Vinyl Chloride
Concen: 22.415 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 62 Resp: 46862

Ion	Ratio	Lower	Upper
62	100		
64	32.9	24.9	37.3





#5
Bromomethane
Concen: 23.536 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 94 Resp: 3120

Ion	Ratio	Lower	Upper
94	100		
96	92.0	76.6	115.0

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
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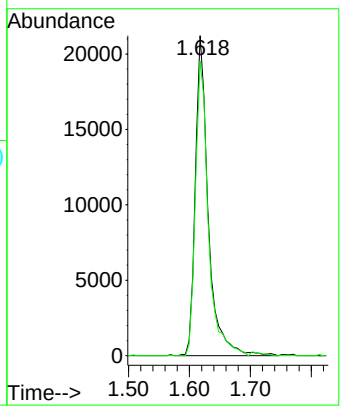
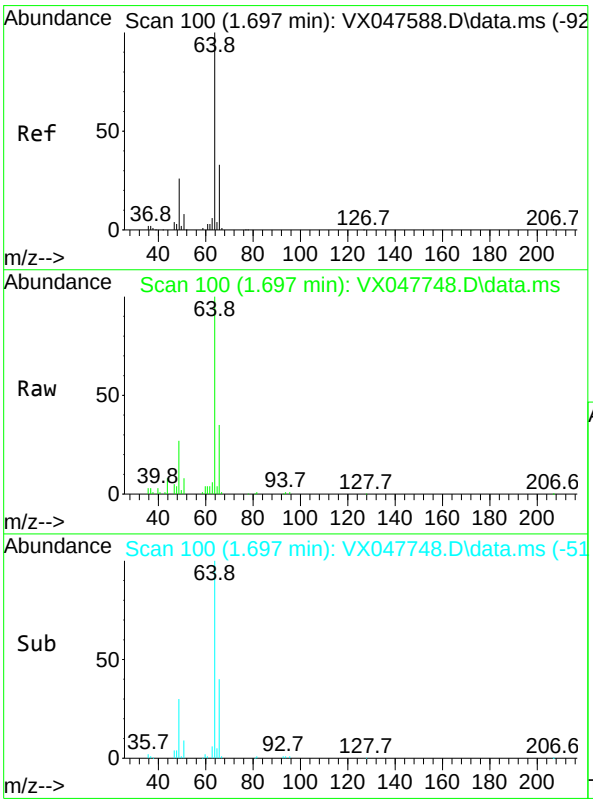
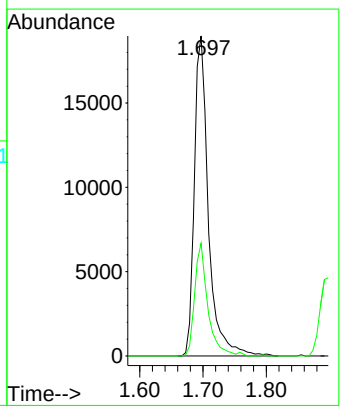


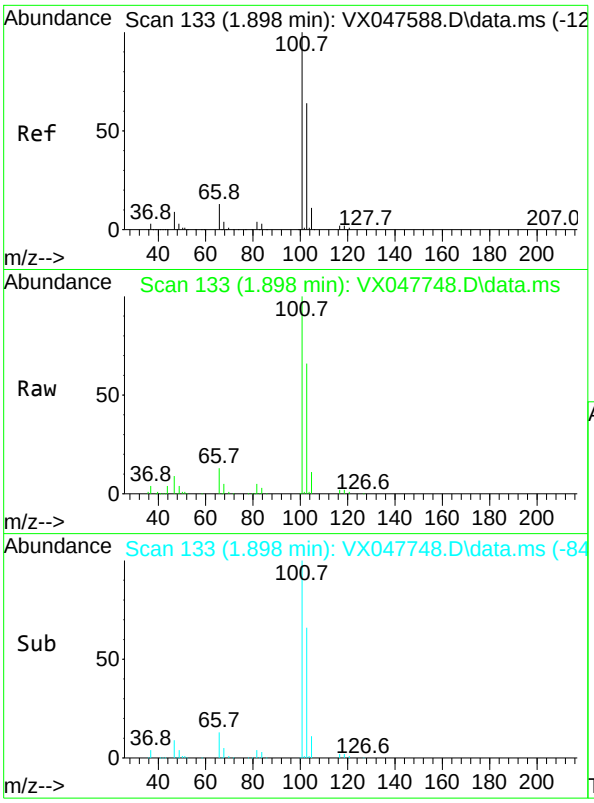


#6
Chloroethane
Concen: 21.002 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 64 Resp: 29347

Ion	Ratio	Lower	Upper
64	100		
66	35.2	26.1	39.1

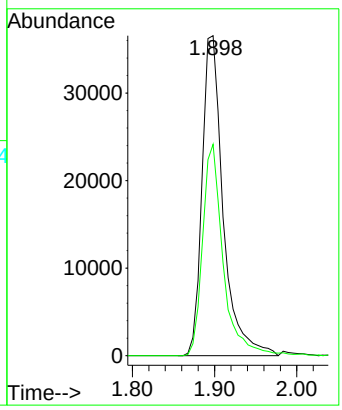




#7
Trichlorofluoromethane
Concen: 20.934 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:101 Resp: 6498

Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations APPROVED

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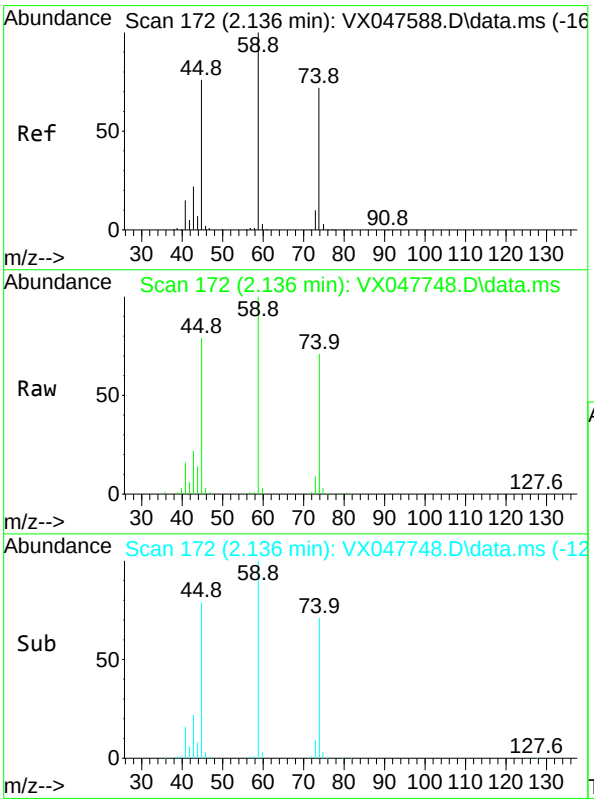
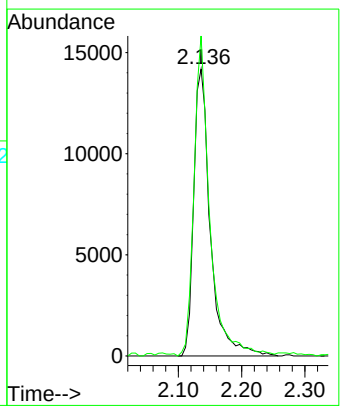
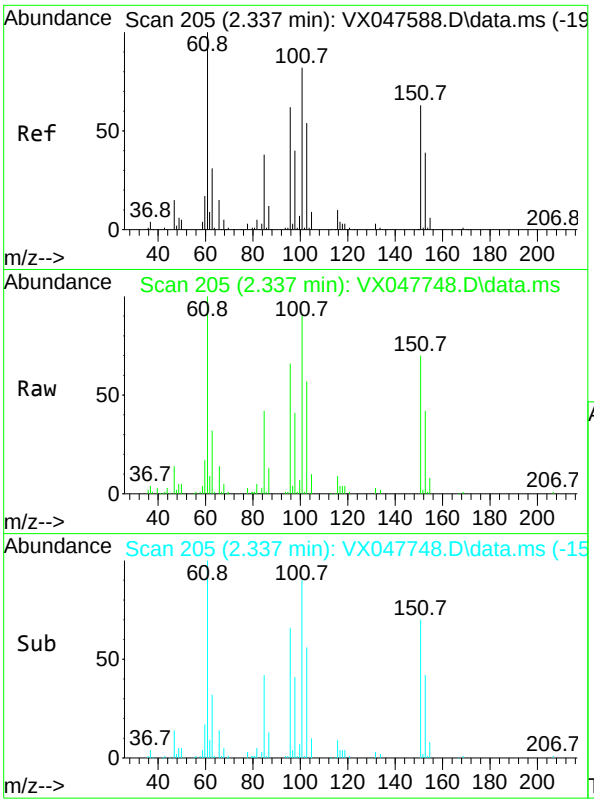


#8
Diethyl Ether
Concen: 20.423 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 74 Resp: 25934

Ion	Ratio	Lower	Upper
74	100		
45	106.7	52.3	156.8

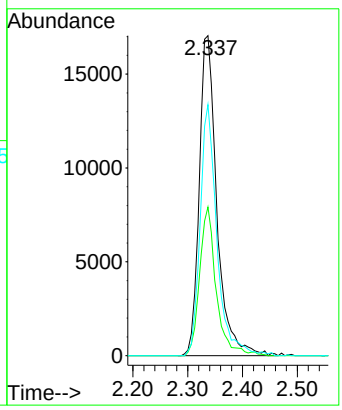




#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.007 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:101 Resp: 3813

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.5	53.3
151	74.3	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
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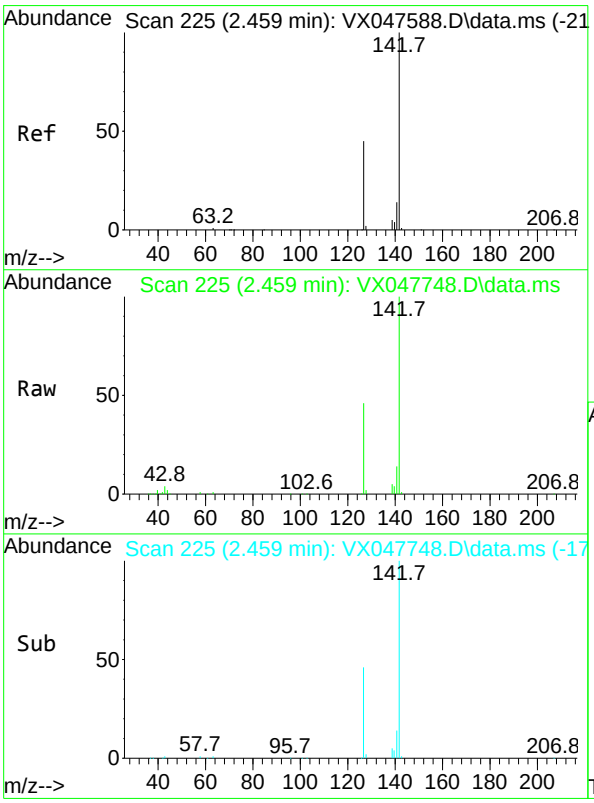
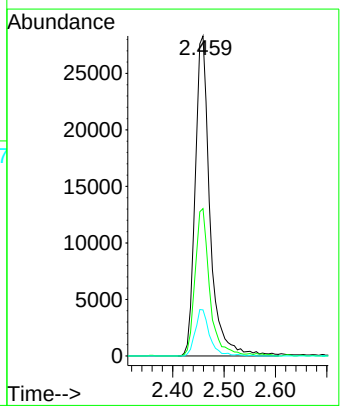
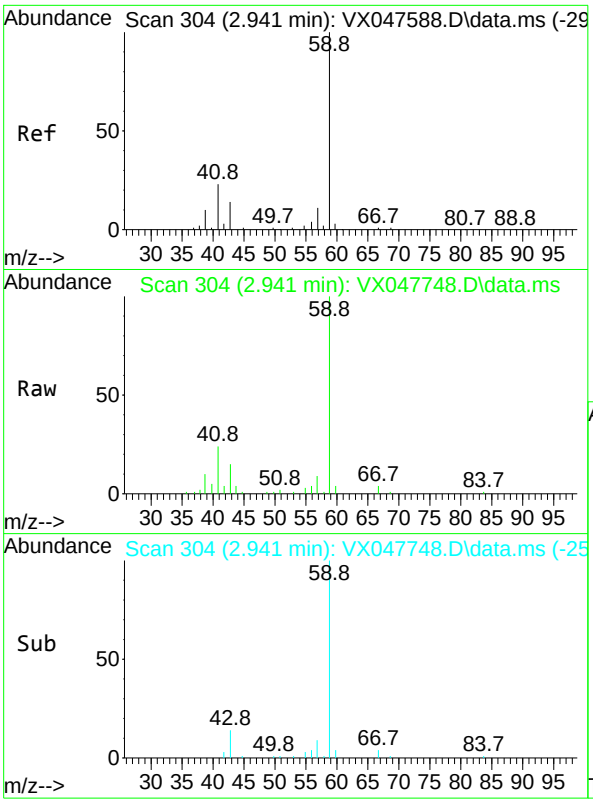


#10
Methyl Iodide
Concen: 20.040 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:142 Resp: 56731

Ion	Ratio	Lower	Upper
142	100		
127	45.4	37.2	55.8
141	13.9	11.4	17.0

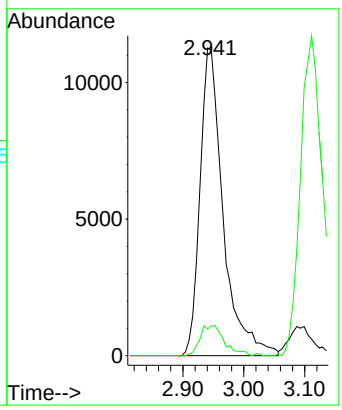




#11
Tert butyl alcohol
Concen: 107.025 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 59 Resp: 2977

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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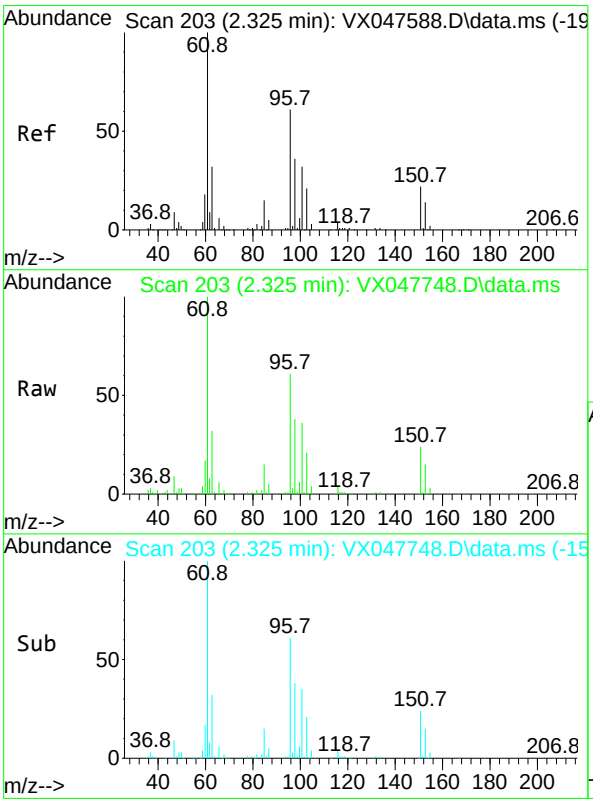
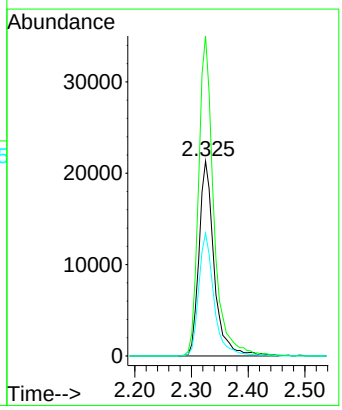
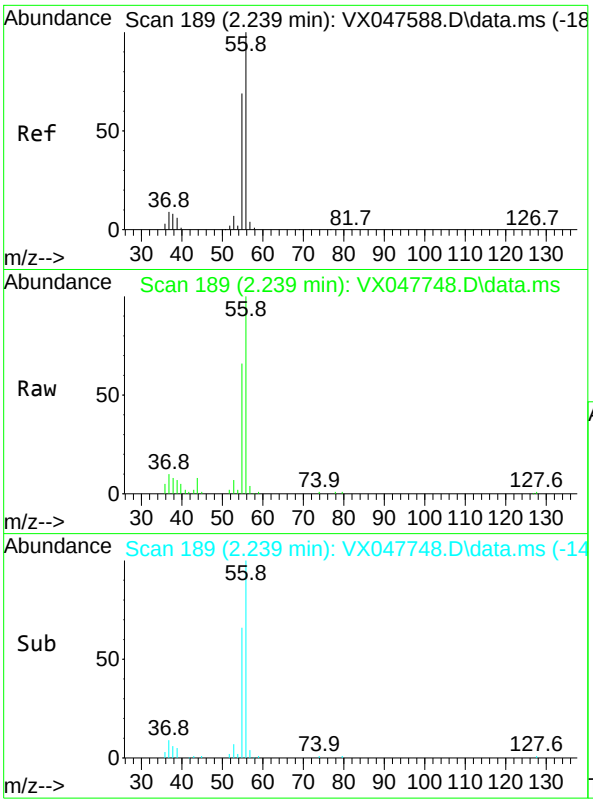


#12
1,1-Dichloroethene
Concen: 21.165 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 96 Resp: 39463

Ion	Ratio	Lower	Upper
96	100		
61	164.2	131.0	196.6
98	63.1	47.7	71.5

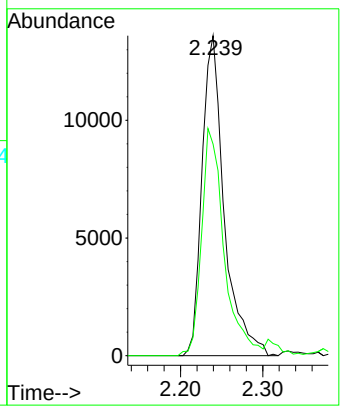




#13
Acrolein
Concen: 99.449 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 56 Resp: 2549

Ion	Ratio	Lower	Upper
56	100		
55	72.0	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
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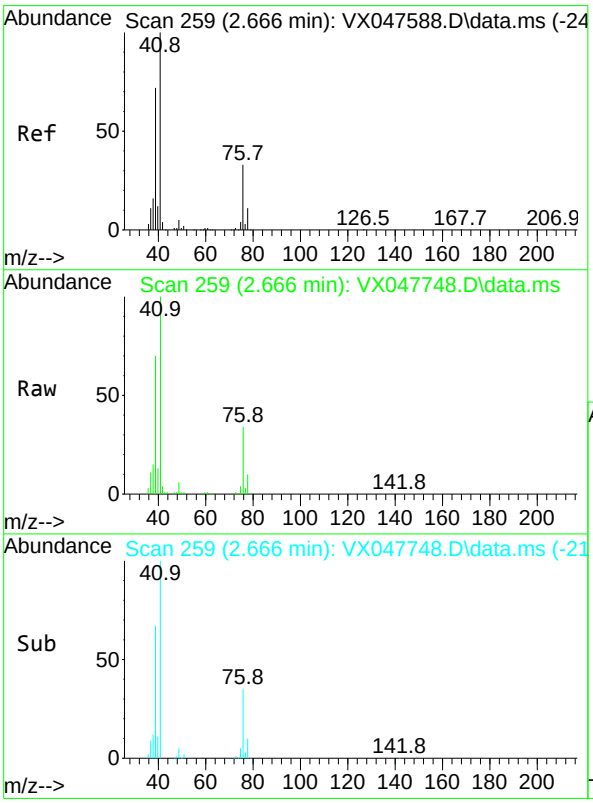
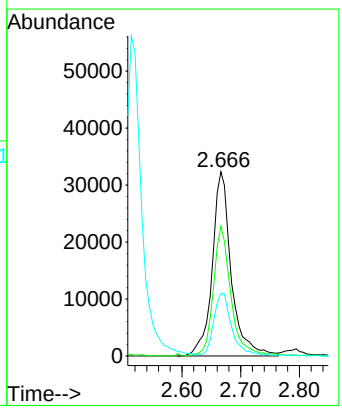
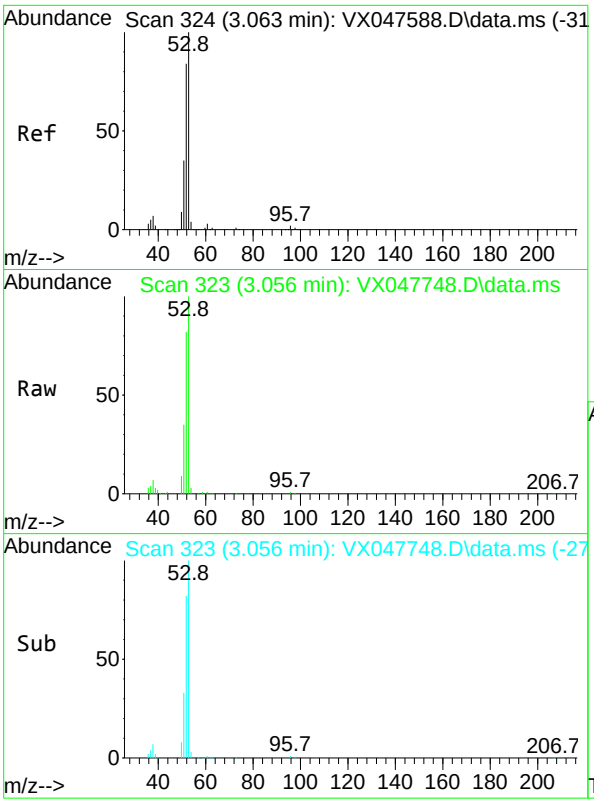


#14
Allyl chloride
Concen: 18.949 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 72907

Ion	Ratio	Lower	Upper
41	100		
39	65.0	54.7	82.1
76	31.9	25.7	38.5

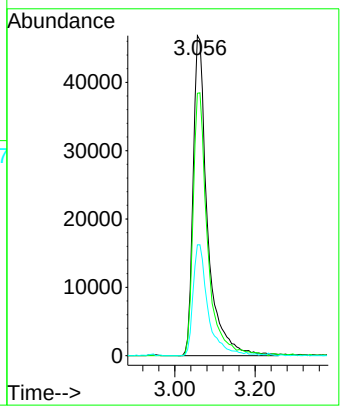




#15
Acrylonitrile
Concen: 113.065 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 53 Resp: 11651

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.4	99.6
51	36.5	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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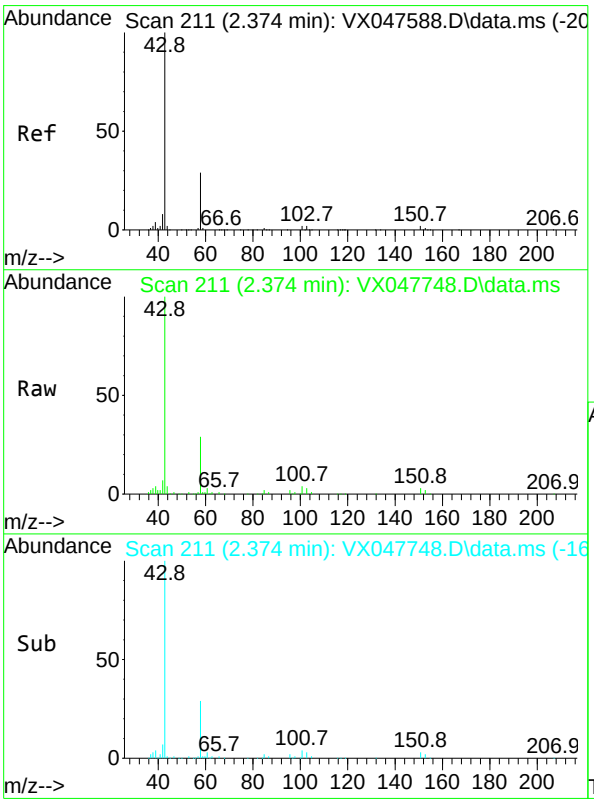
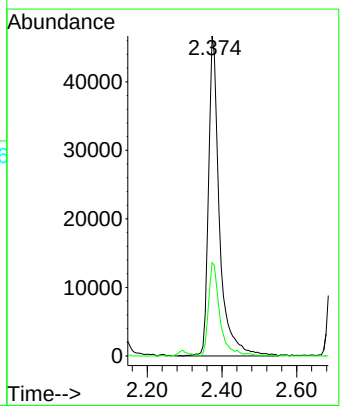
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

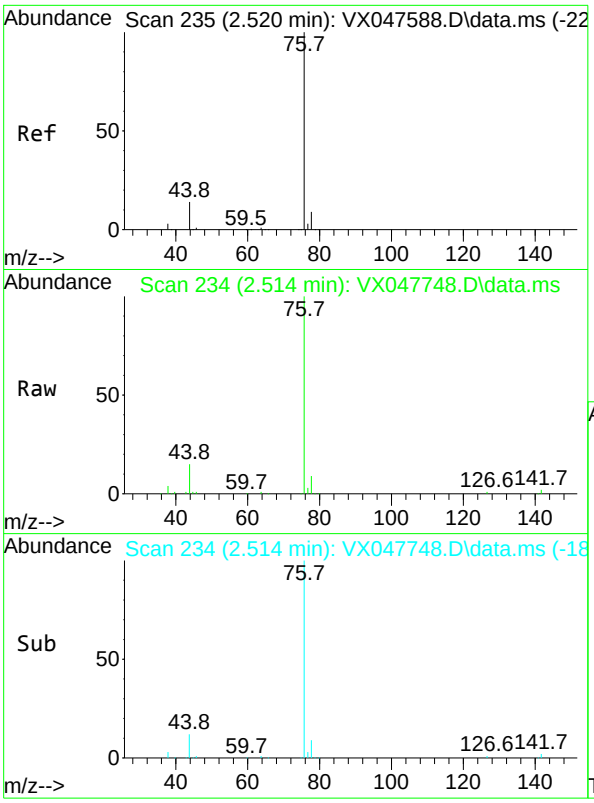


#16
Acetone
Concen: 87.685 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 95237

Ion	Ratio	Lower	Upper
43	100		
58	29.1	23.4	35.0

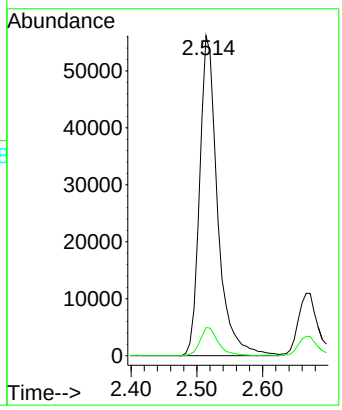




#17
Carbon Disulfide
Concen: 20.869 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 76 Resp: 10652

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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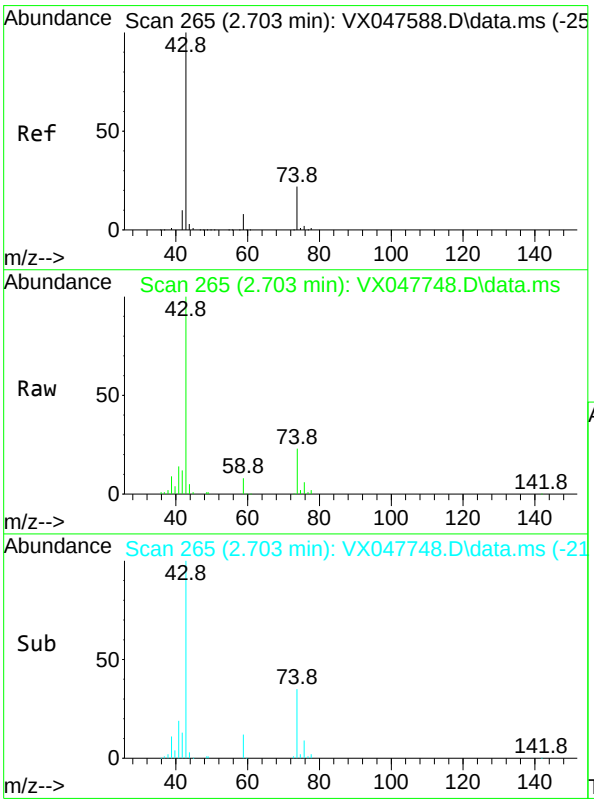
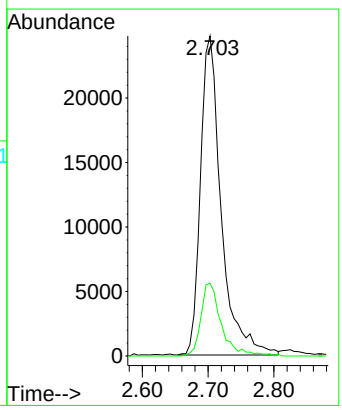
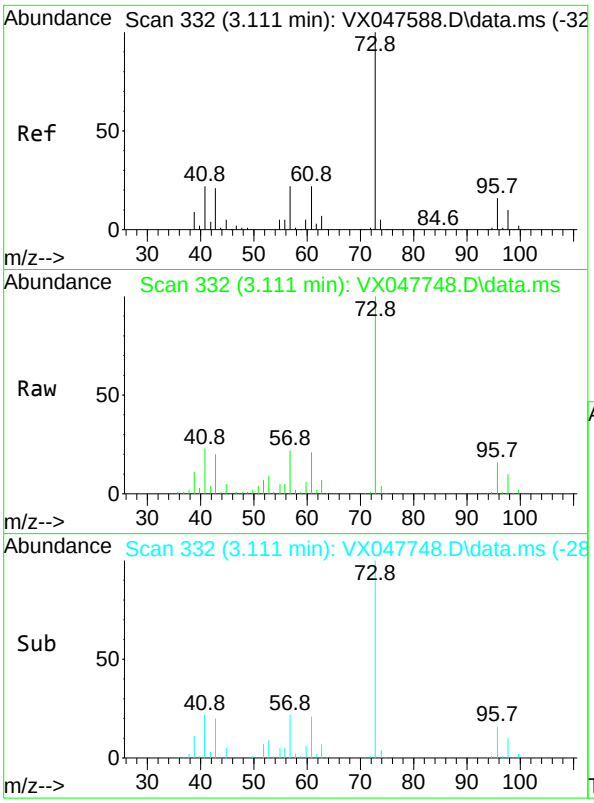


#18
Methyl Acetate
Concen: 22.400 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 54144

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.4	26.2

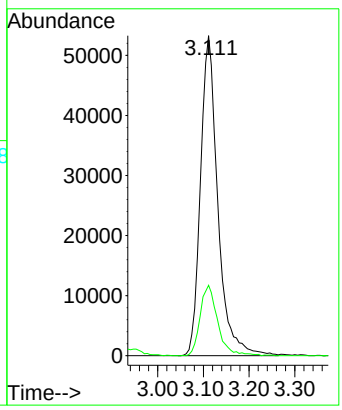




#19
Methyl tert-butyl Ether
Concen: 20.586 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 73 Resp: 14011

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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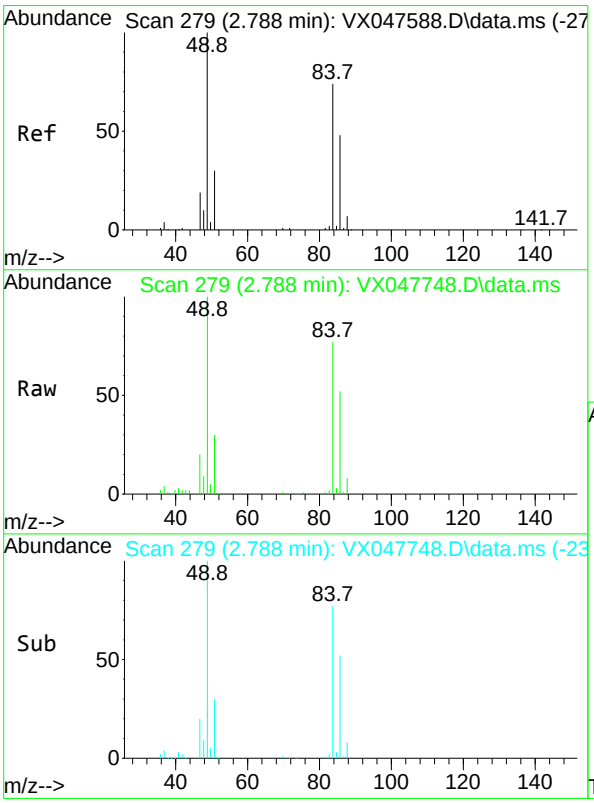
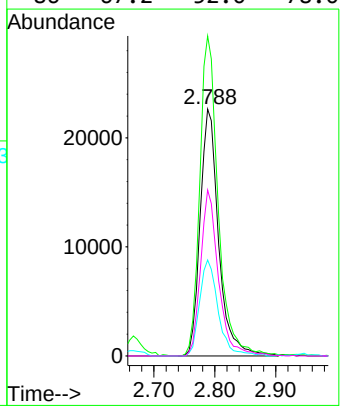
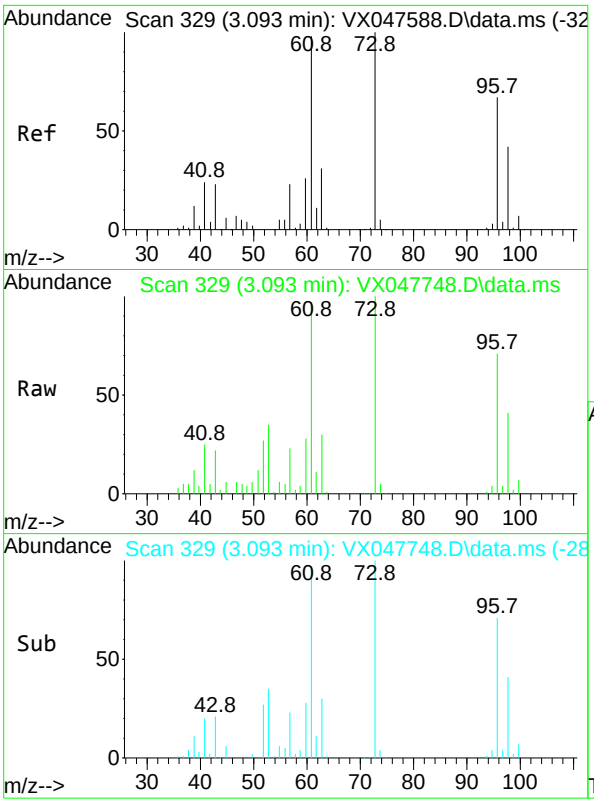


#20
Methylene Chloride
Concen: 20.740 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 84 Resp: 47681

Ion	Ratio	Lower	Upper
84	100		
49	129.6	108.6	162.8
51	38.9	32.6	48.8
86	67.2	52.0	78.0

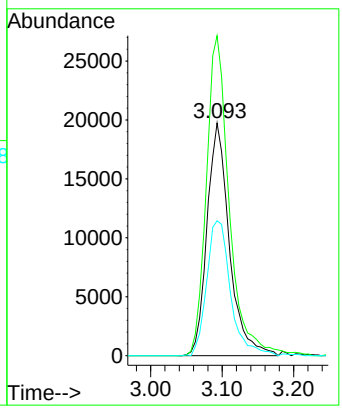




#21
trans-1,2-Dichloroethene
Concen: 21.362 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 96 Resp: 4288

Ion	Ratio	Lower	Upper
96	100		
61	137.6	116.2	174.2
98	58.0	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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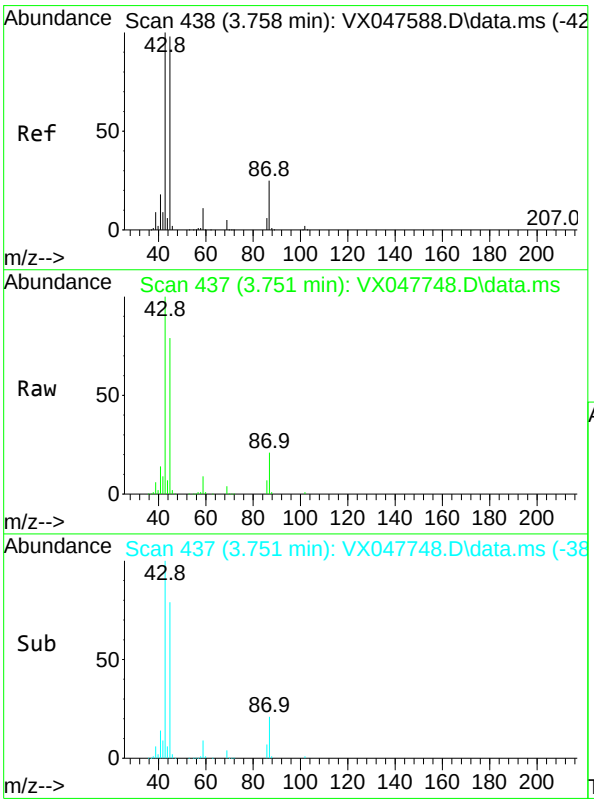
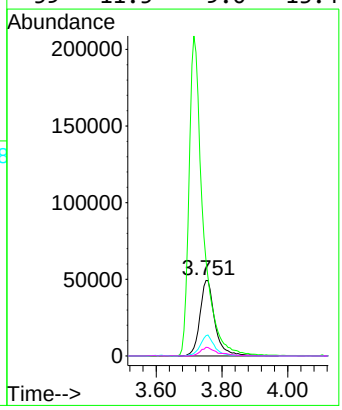
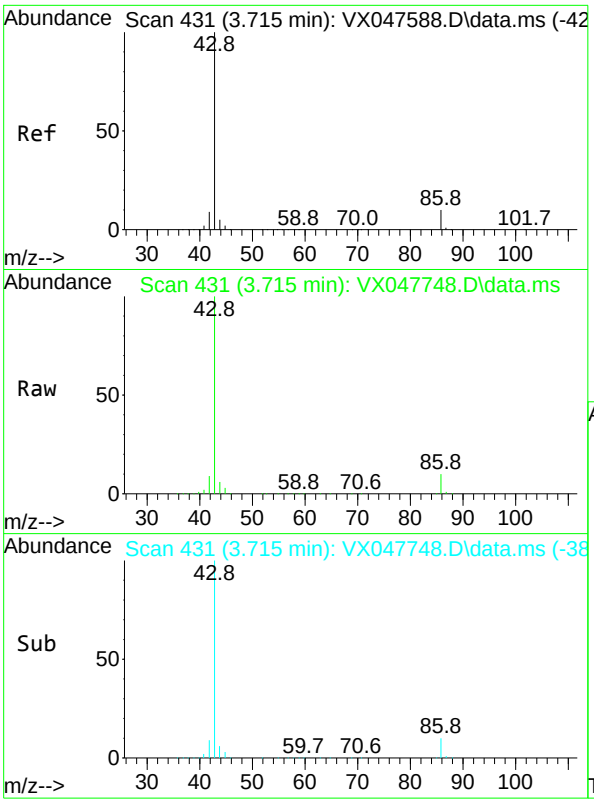


#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 45 Resp: 155798

Ion	Ratio	Lower	Upper
45	100		
43	125.6	81.0	121.4#
87	26.9	20.3	30.5
59	11.5	9.0	13.4





#23
Vinyl Acetate
Concen: 103.461 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 61743

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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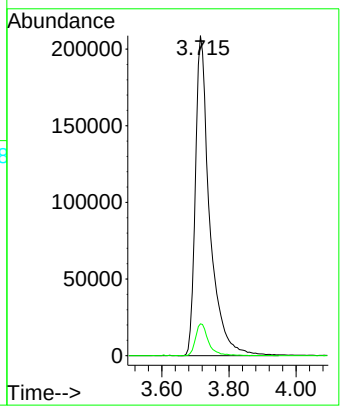
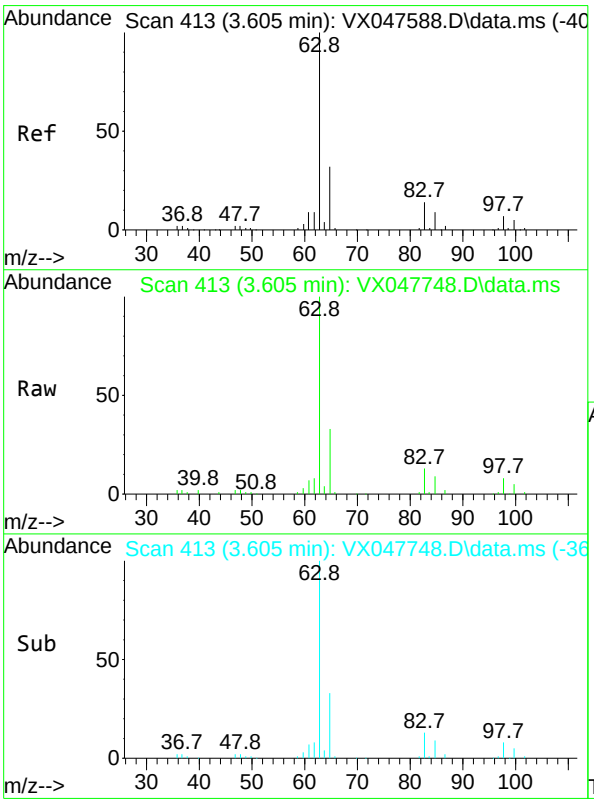
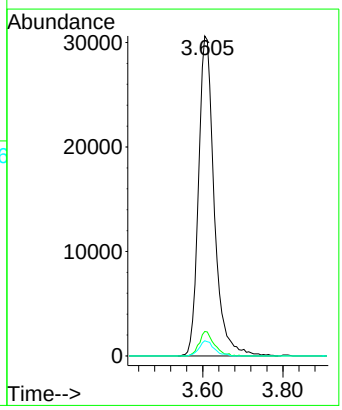


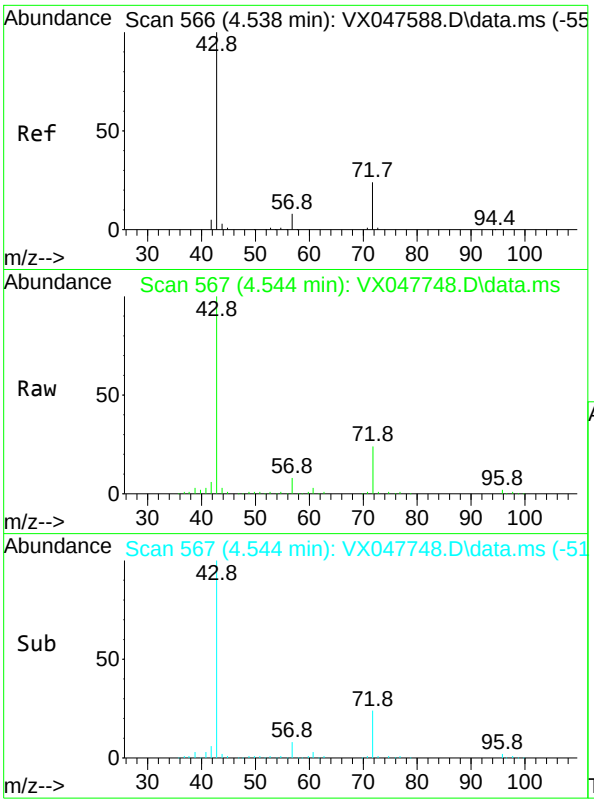


#24
1,1-Dichloroethane
Concen: 21.012 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 83274

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.8	11.2
100	4.8	2.3	6.9

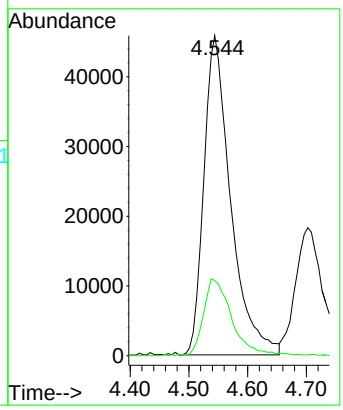




#25
2-Butanone
Concen: 106.972 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 14492

Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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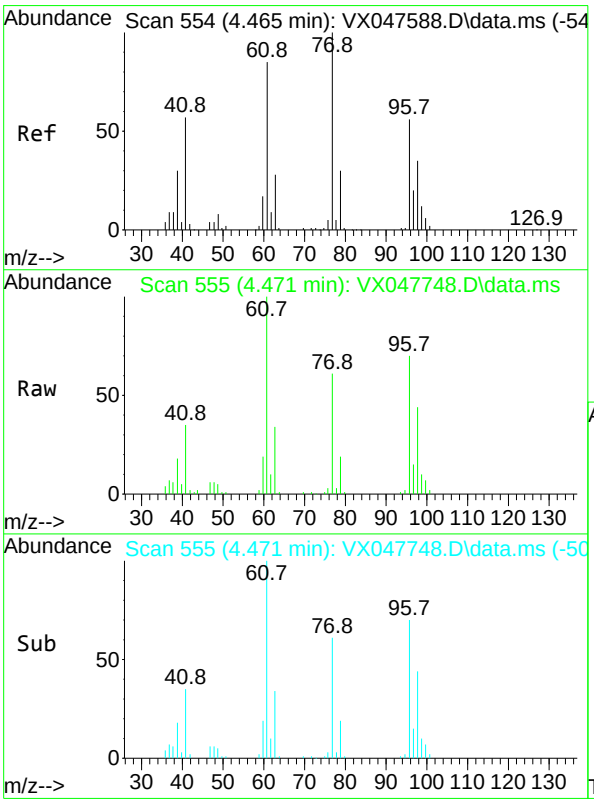
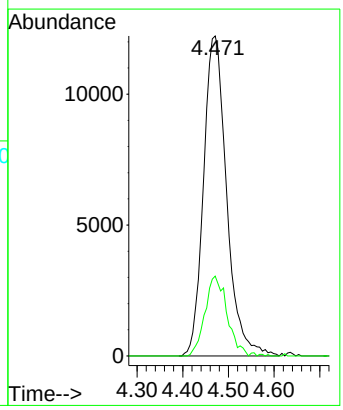
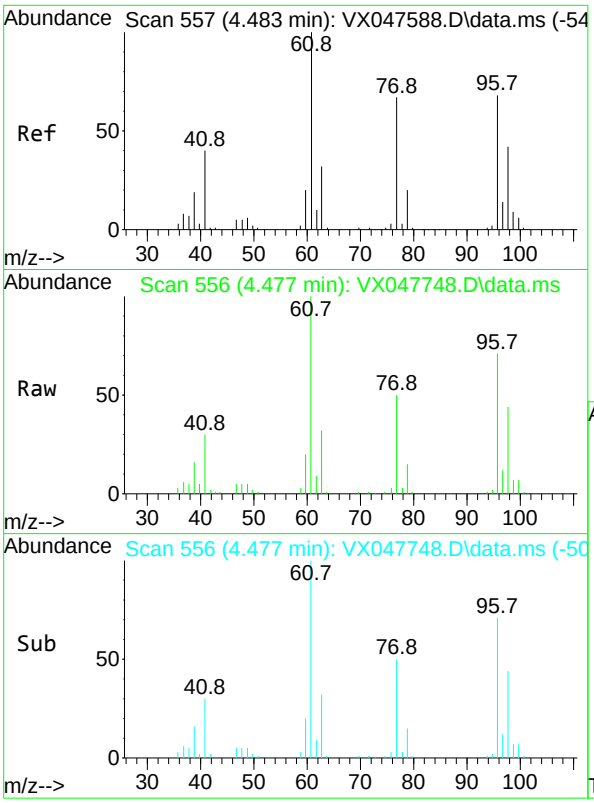


#26
2,2-Dichloropropane
Concen: 13.043 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 77 Resp: 42968

Ion	Ratio	Lower	Upper
77	100		
97	23.7	10.9	32.7

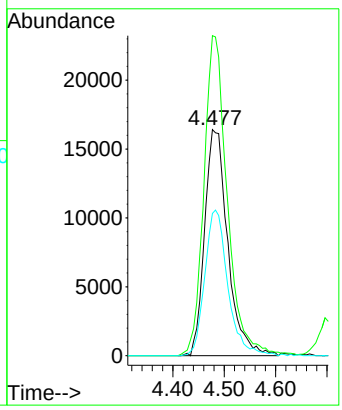




#27
cis-1,2-Dichloroethene
Concen: 20.894 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 96 Resp: 5136

Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	303.2
98	64.2	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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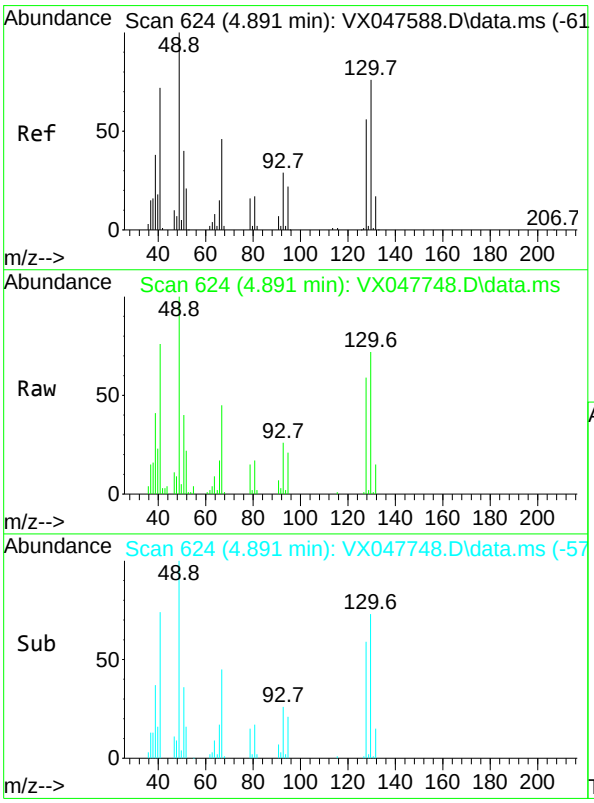
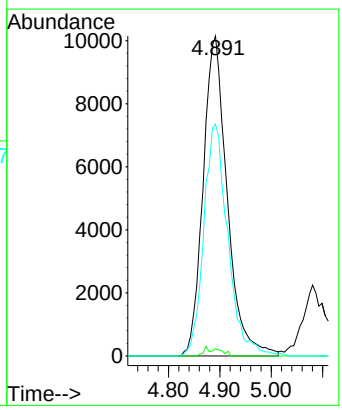
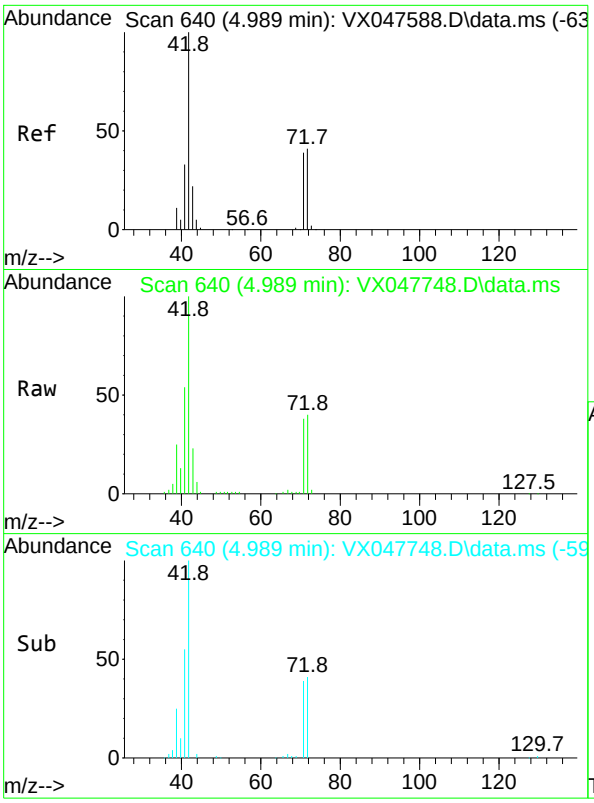


#28
Bromochloromethane
Concen: 19.085 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 49 Resp: 33021

Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.2
130	72.6	57.8	86.8





#29
Tetrahydrofuran
Concen: 114.248 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 42 Resp: 9311

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.0	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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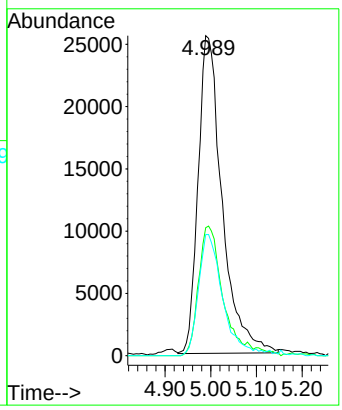
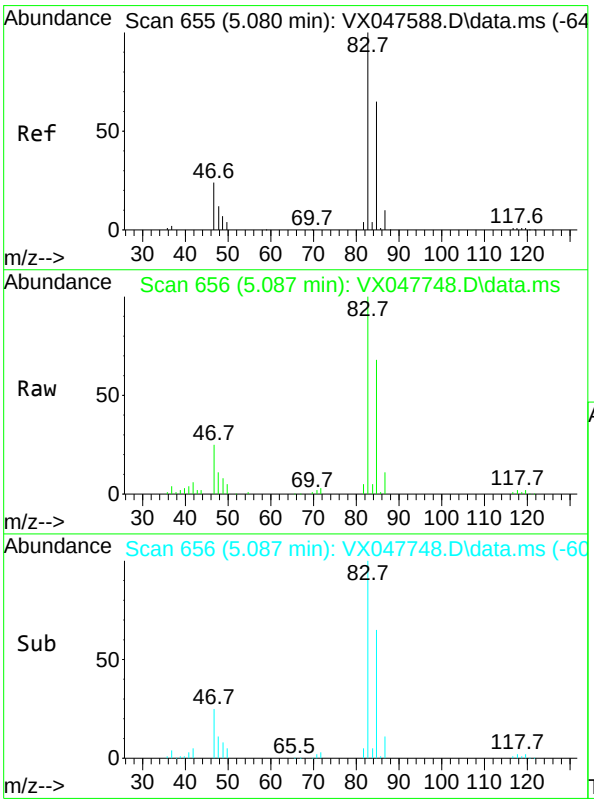
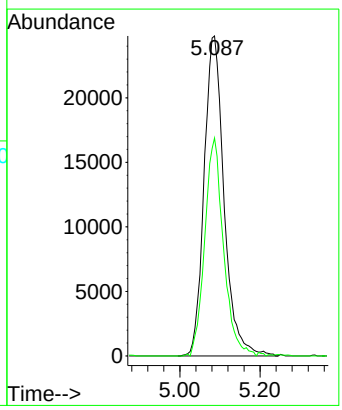


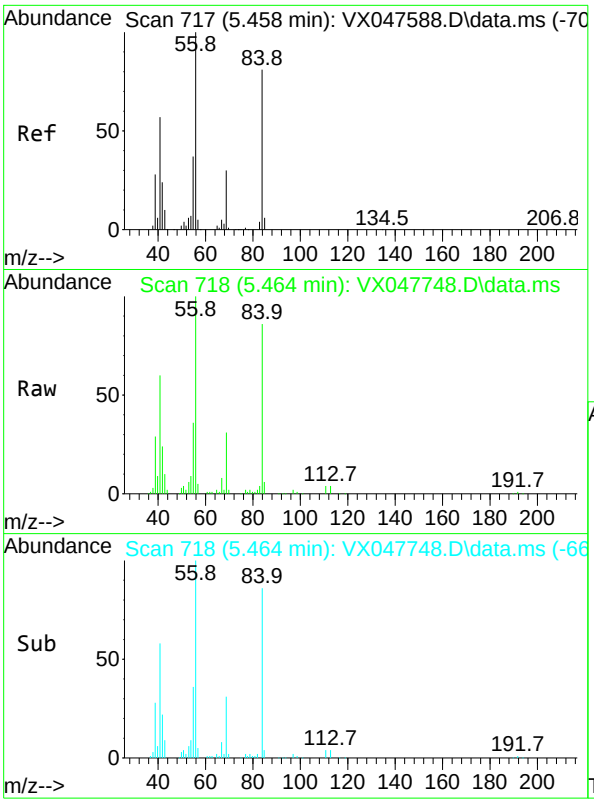


#30
Chloroform
Concen: 21.345 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 85486

Ion	Ratio	Lower	Upper
83	100		
85	68.1	51.8	77.6

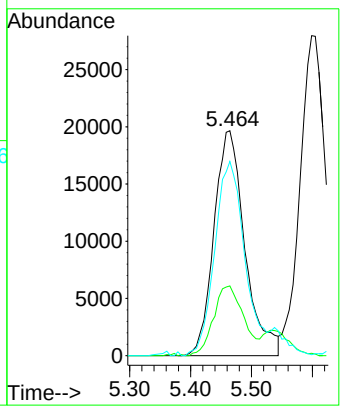




#31
Cyclohexane
Concen: 20.939 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 56 Resp: 6911

Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.8	35.8
84	84.6	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
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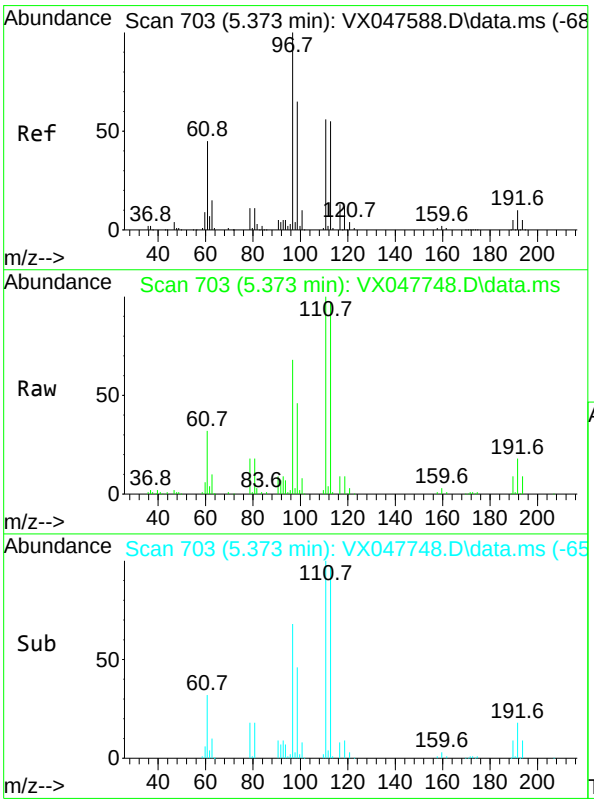
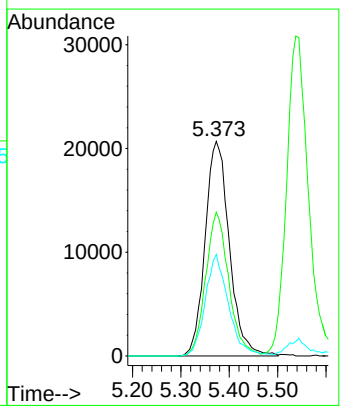
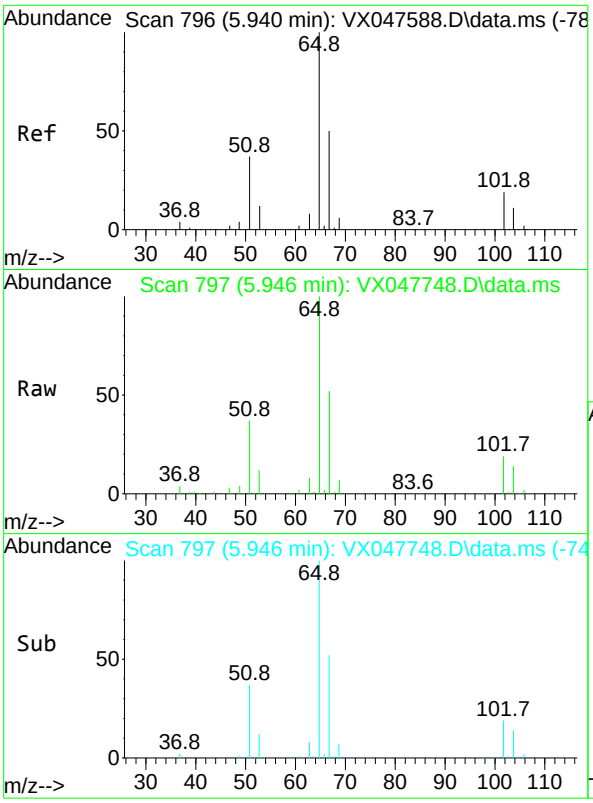


#32
1,1,1-Trichloroethane
Concen: 21.168 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 97 Resp: 71907

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	45.4	35.8	53.8

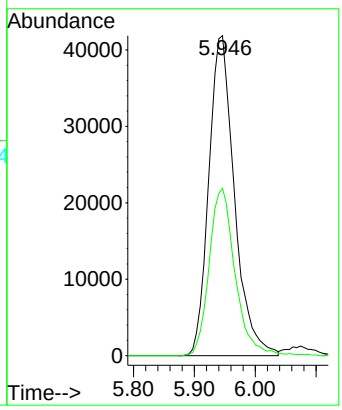




#33
1,2-Dichloroethane-d4
Concen: 48.994 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 65 Resp: 12238

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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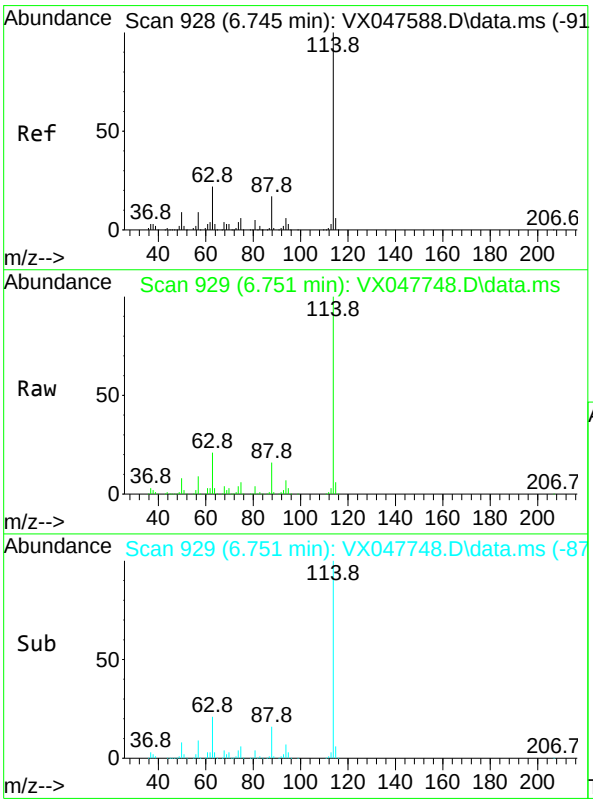
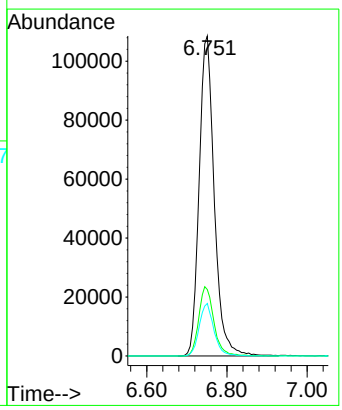
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

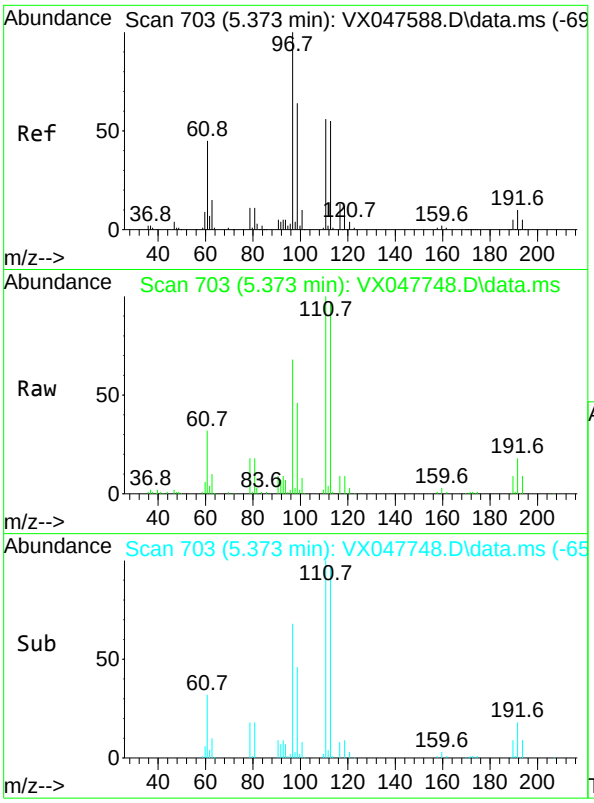


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:114 Resp: 284011

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	44.0
88	16.4	0.0	34.2

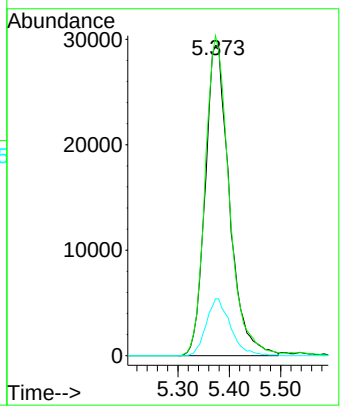




#35
Dibromofluoromethane
Concen: 50.711 ug/l
RT: 5.373 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:113 Resp: 9659(

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	18.4	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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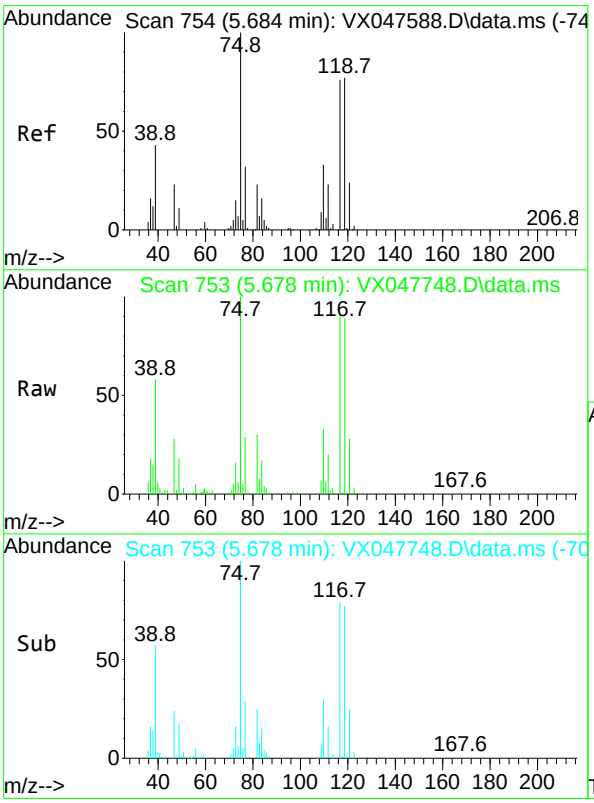
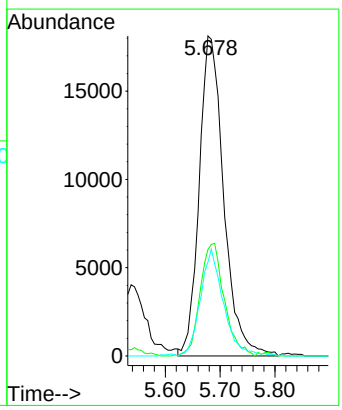
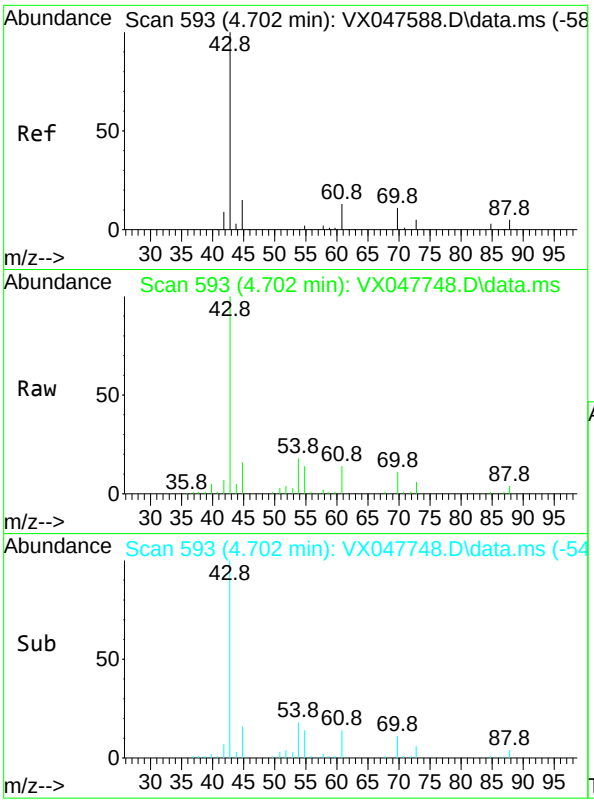


#36
1,1-Dichloropropene
Concen: 20.197 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 56214

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	31.5	24.3	36.5





#37
Ethyl Acetate
Concen: 21.220 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 6323

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	10.2	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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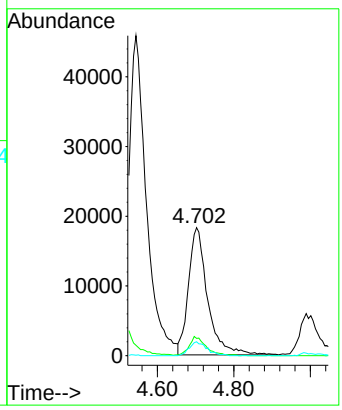
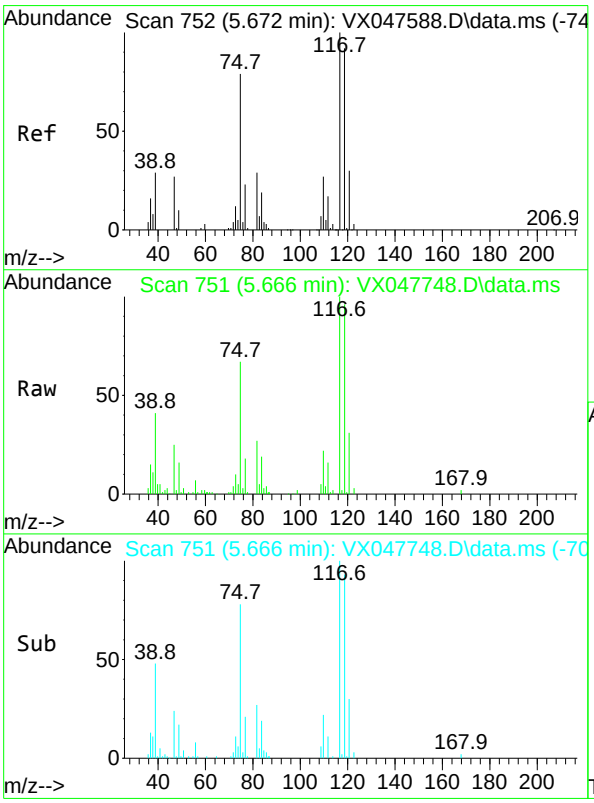
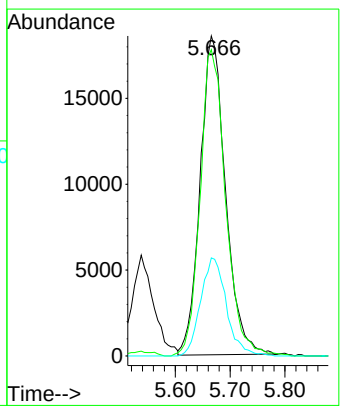


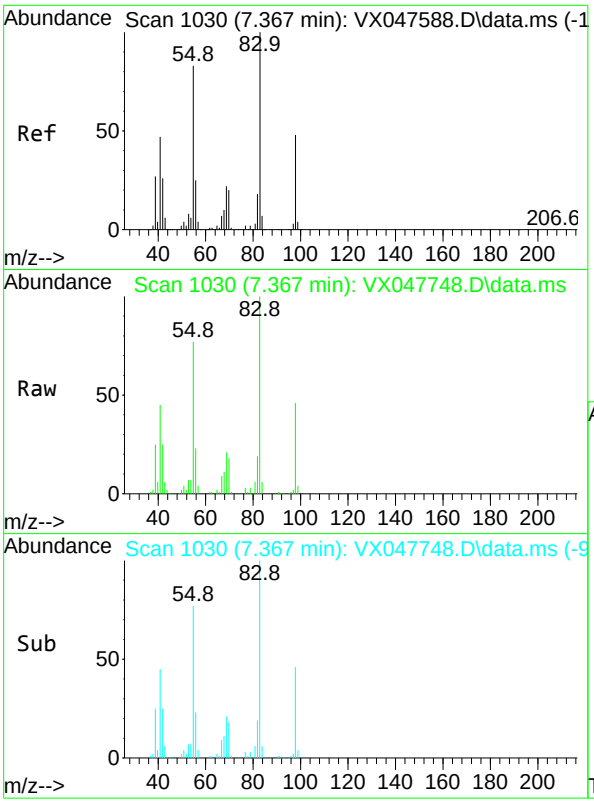


#38
Carbon Tetrachloride
Concen: 19.672 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 59490

Ion	Ratio	Lower	Upper
117	100		
119	95.6	73.4	110.2
121	30.8	23.8	35.6

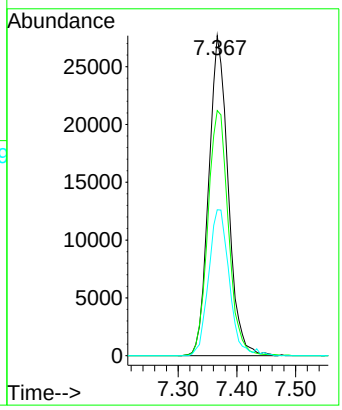




#39
Methylcyclohexane
Concen: 20.138 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 6362

Ion	Ratio	Lower	Upper
83	100		
55	76.6	66.4	99.6
98	45.6	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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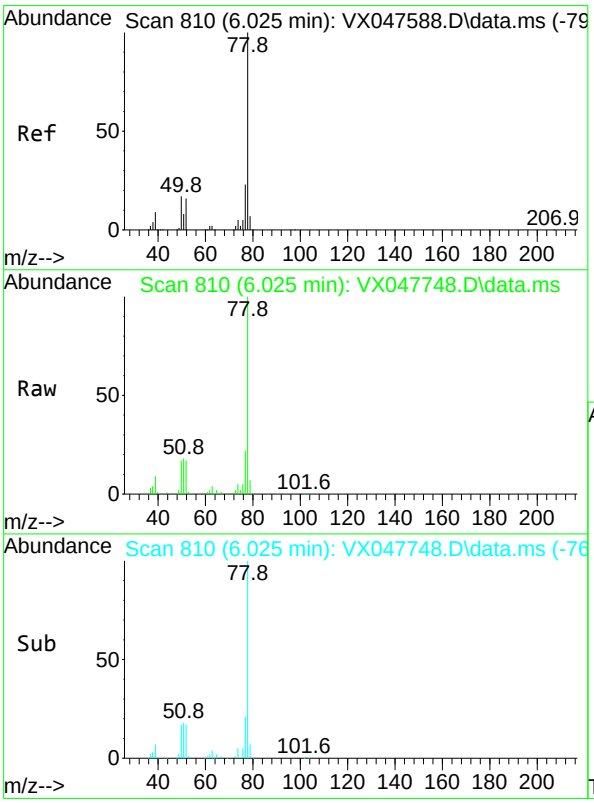
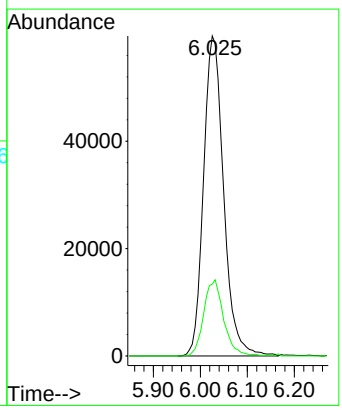
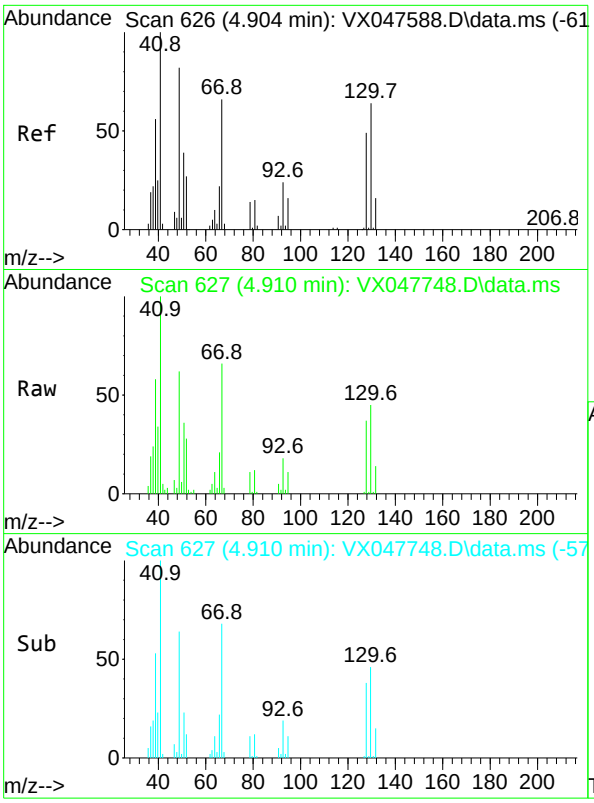


#40
Benzene
Concen: 20.873 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 78 Resp: 176451

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.8	28.2

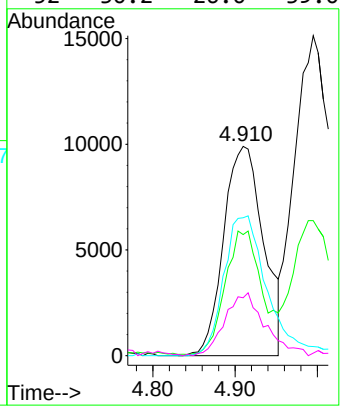




#41
Methacrylonitrile
Concen: 21.696 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 3337

Ion	Ratio	Lower	Upper
41	100		
39	54.8	43.3	64.9
67	73.2	58.6	87.8
52	30.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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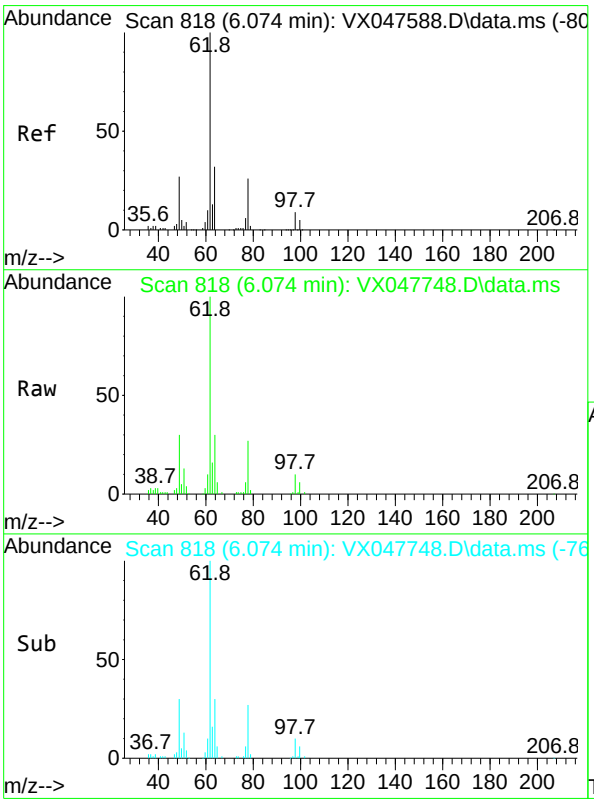
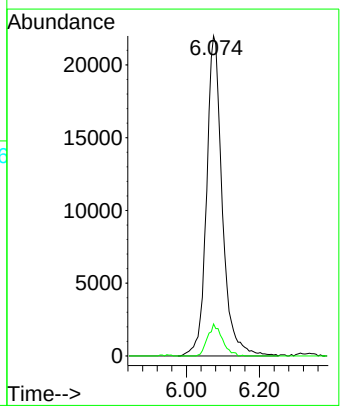
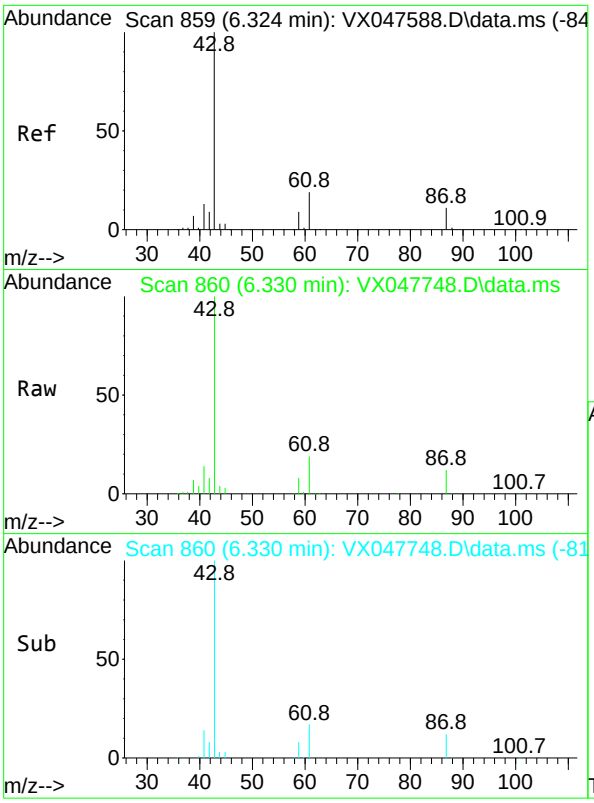


#42
1,2-Dichloroethane
Concen: 20.366 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 62 Resp: 65506

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0

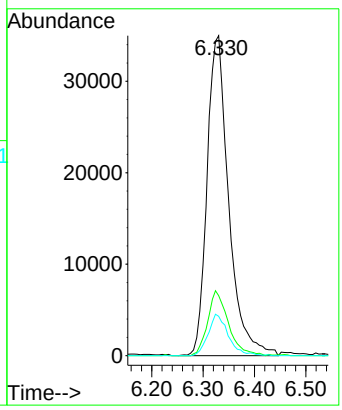




#43
Isopropyl Acetate
Concen: 20.917 ug/l
RT: 6.330 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 10223

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.1	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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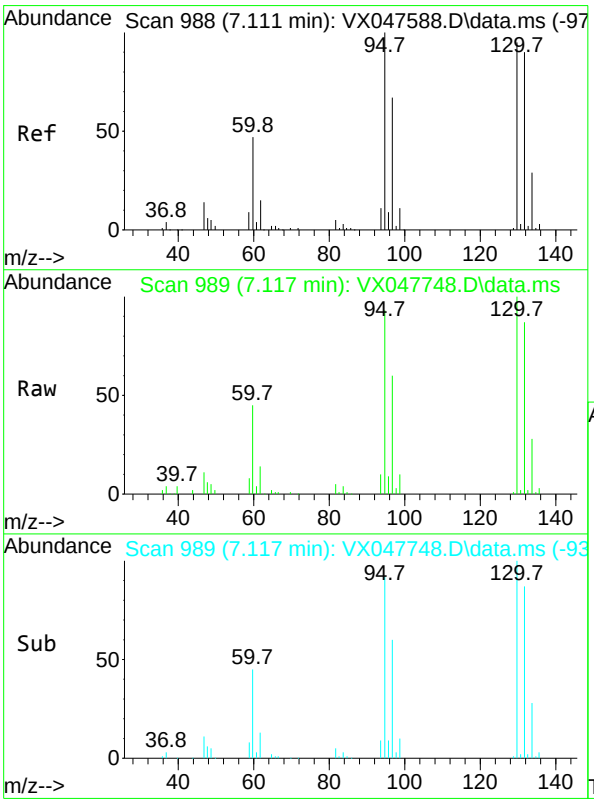
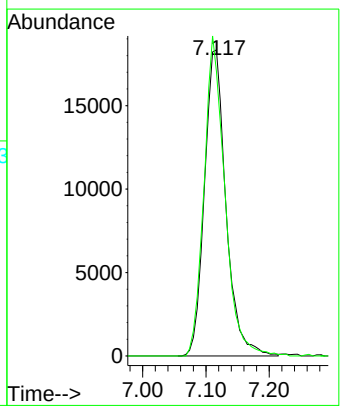
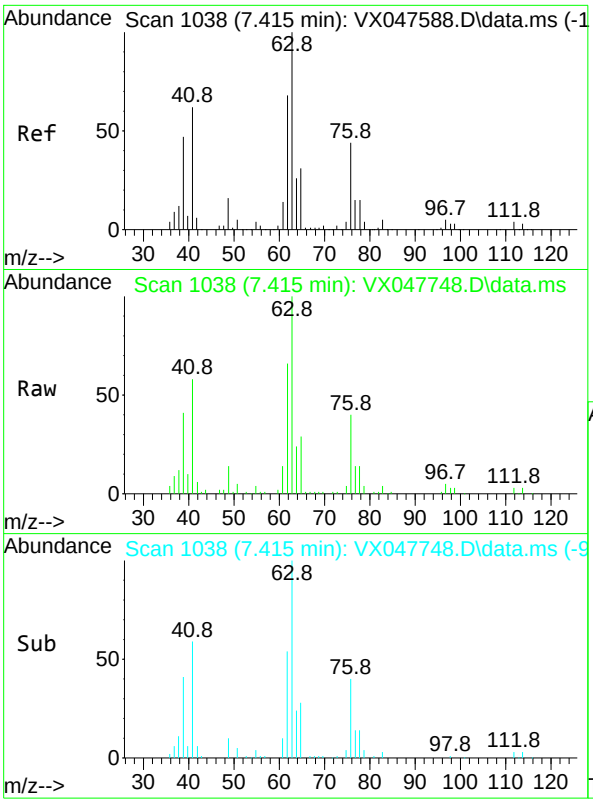


#44
Trichloroethene
Concen: 21.254 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:130 Resp: 43438

Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	210.8

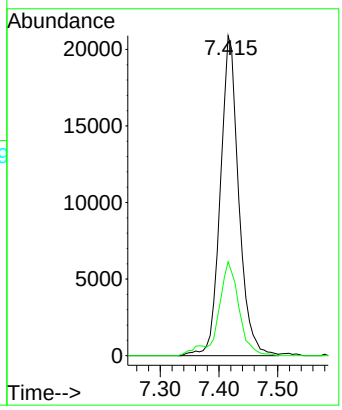




#45
1,2-Dichloropropane
Concen: 21.024 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 4550

Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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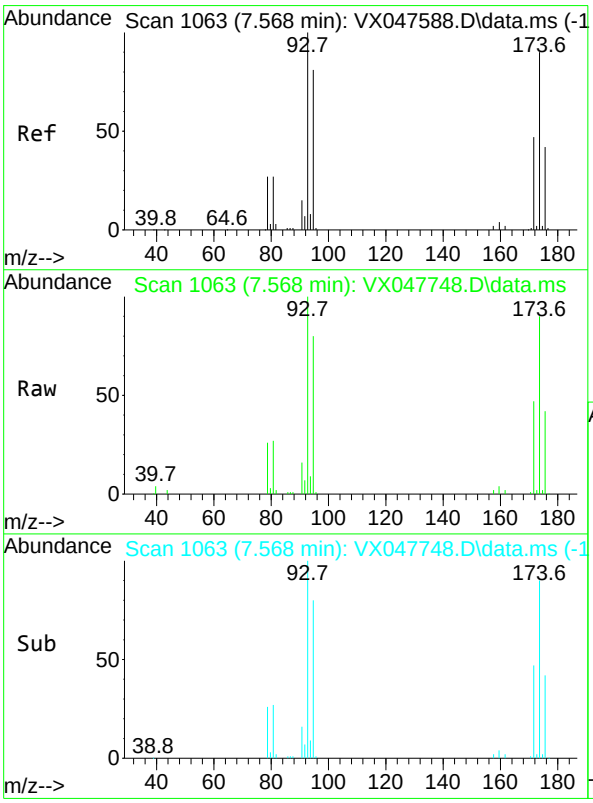
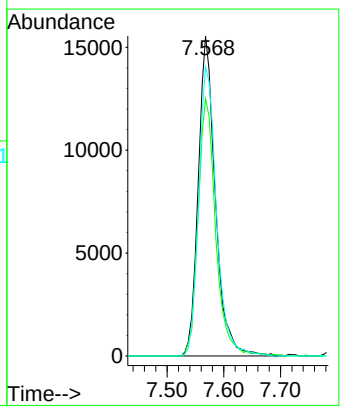
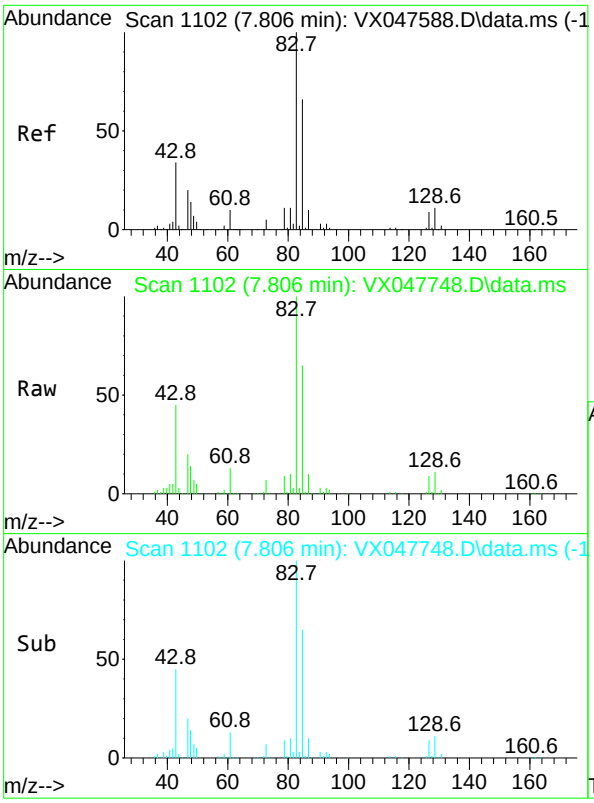


#46
Dibromomethane
Concen: 20.725 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 93 Resp: 32646

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	93.9	71.6	107.4

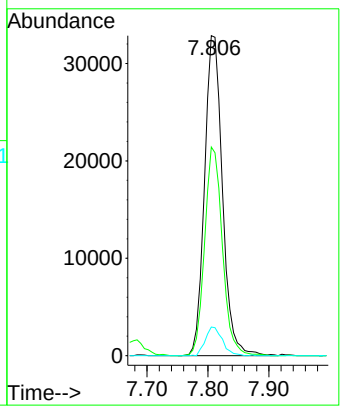




#47
Bromodichloromethane
Concen: 20.681 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 6722

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.5	78.7
127	8.9	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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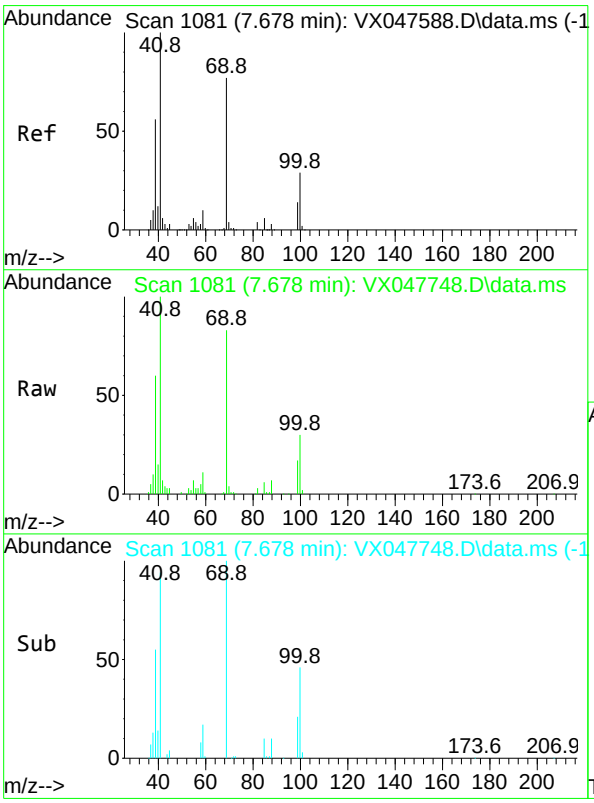
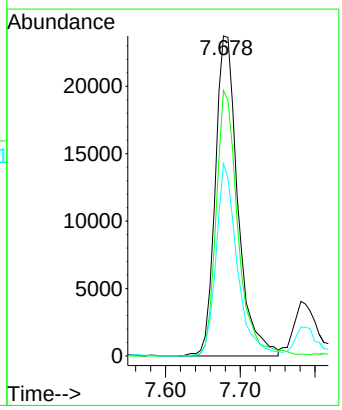
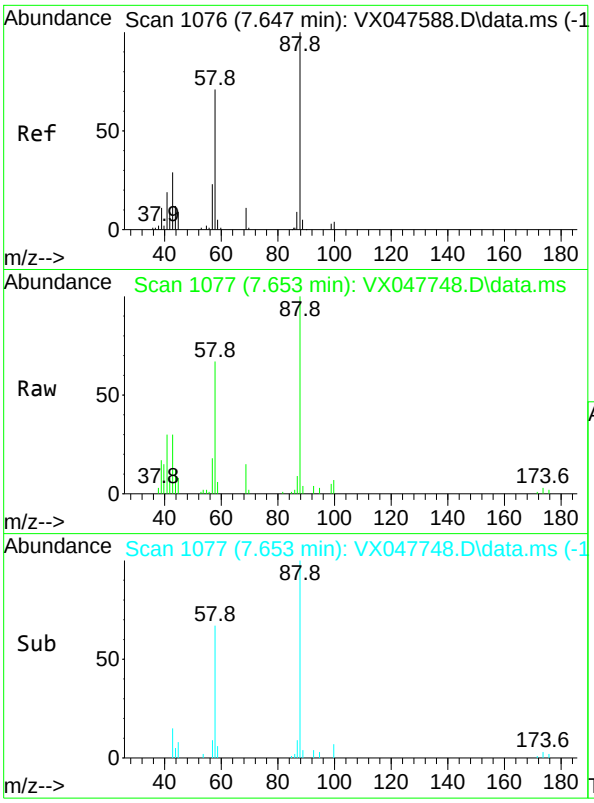


#48
Methyl methacrylate
Concen: 20.524 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 49967

Ion	Ratio	Lower	Upper
41	100		
69	80.1	61.4	92.2
39	56.5	45.8	68.6

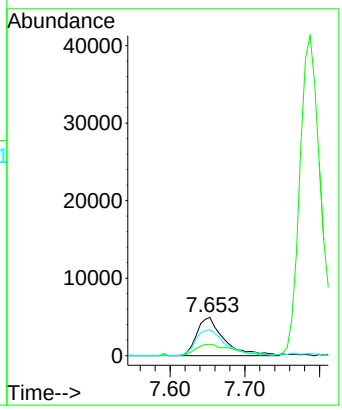




#49
1,4-Dioxane
Concen: 503.790 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 88 Resp: 1239

Ion	Ratio	Lower	Upper
88	100		
43	40.4	30.2	45.2
58	75.2	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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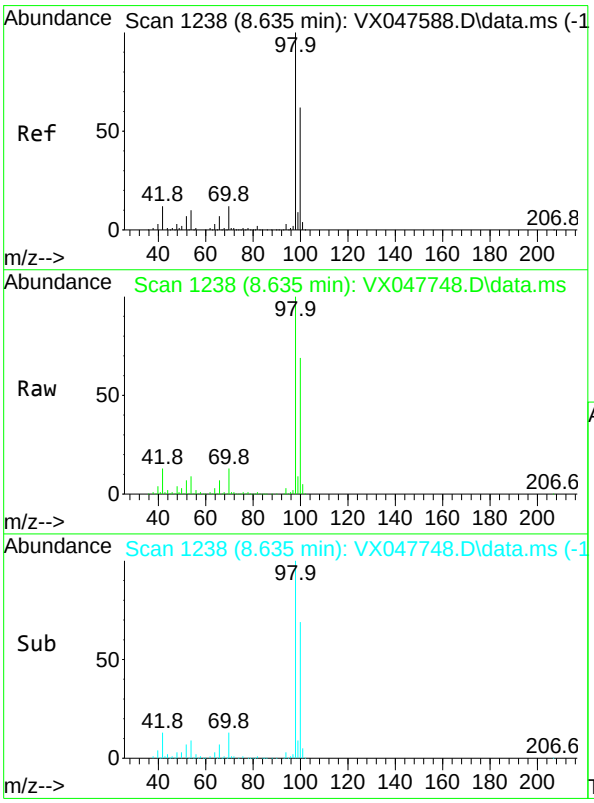
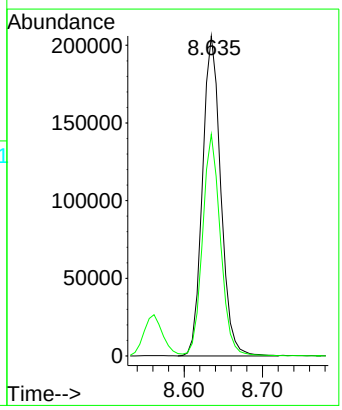
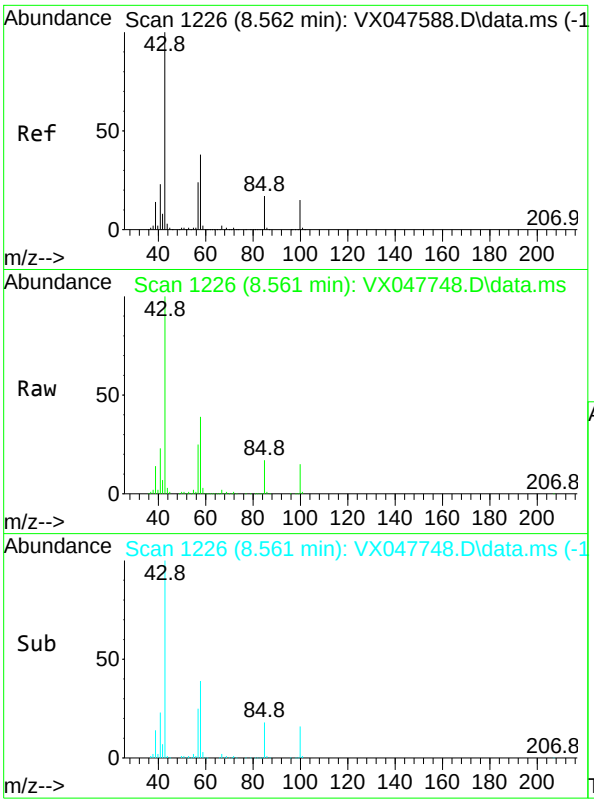


#50
Toluene-d8
Concen: 50.607 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 98 Resp: 333541

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4

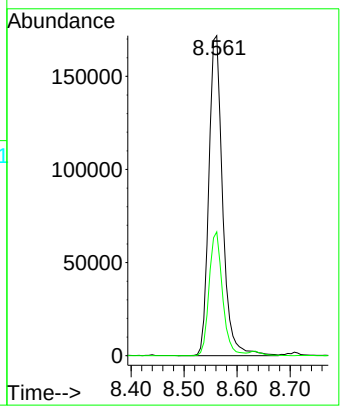




#51
4-Methyl-2-Pentanone
Concen: 114.468 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 31019

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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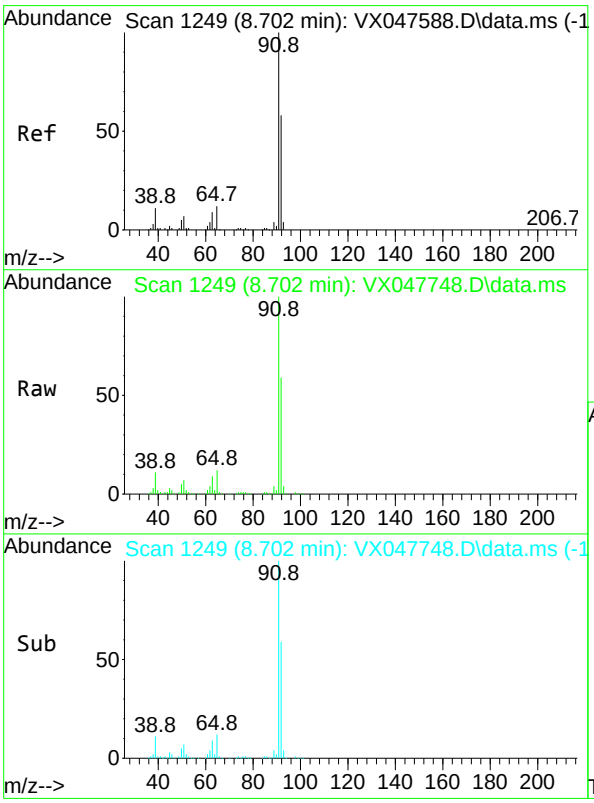
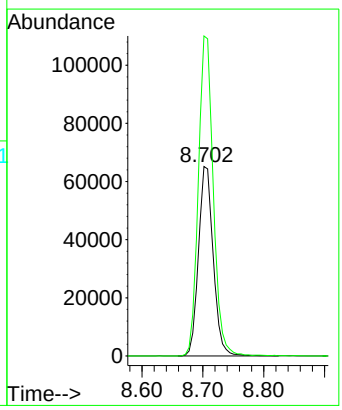
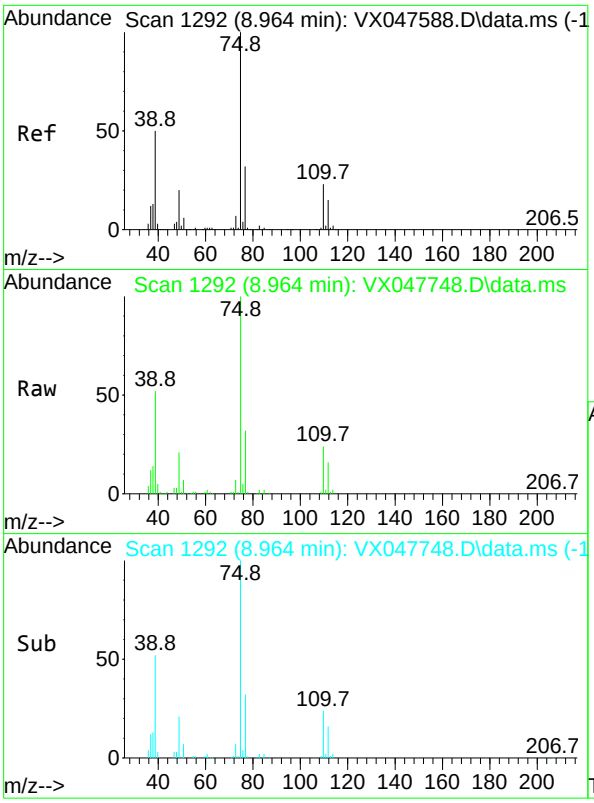


#52
Toluene
Concen: 21.098 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 92 Resp: 109881

Ion	Ratio	Lower	Upper
92	100		
91	170.9	137.1	205.7

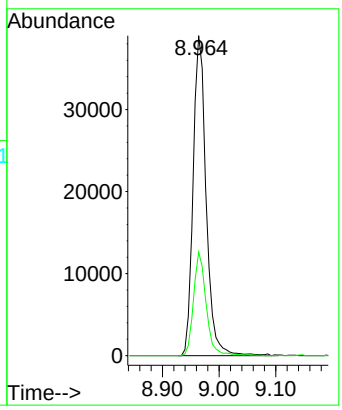




#53
t-1,3-Dichloropropene
Concen: 18.780 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 6226

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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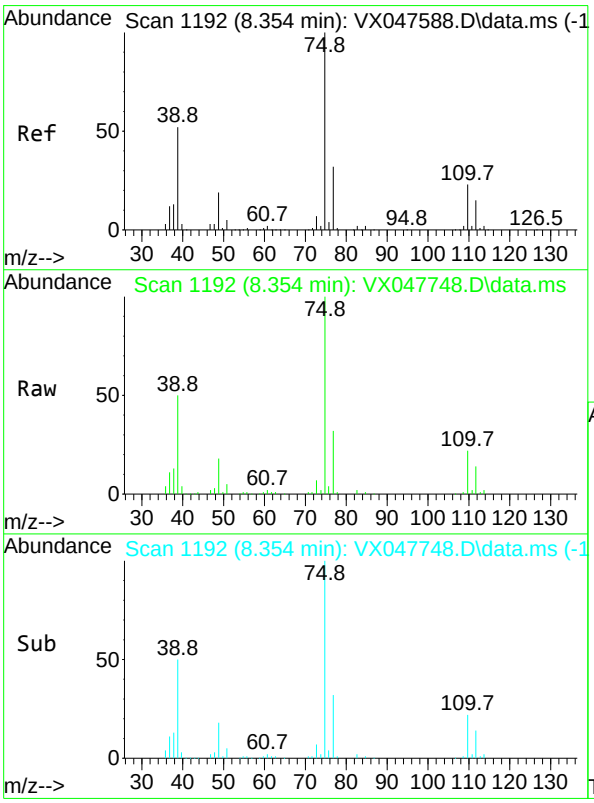
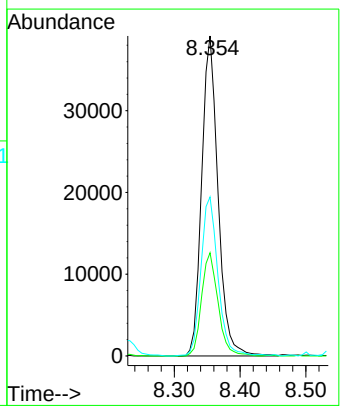
Supervised By :Mahesh Dadoda 09/26/2025

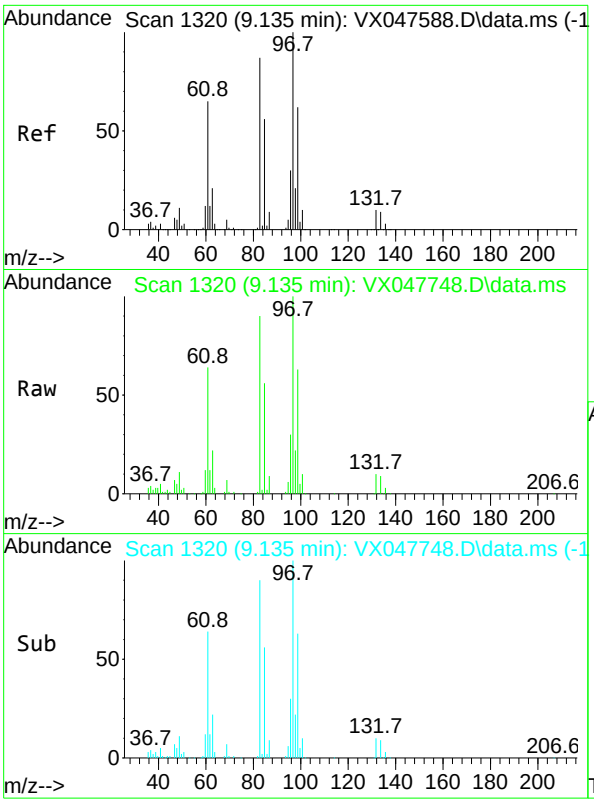


#54
cis-1,3-Dichloropropene
Concen: 19.135 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 67811

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	49.5	41.4	62.2

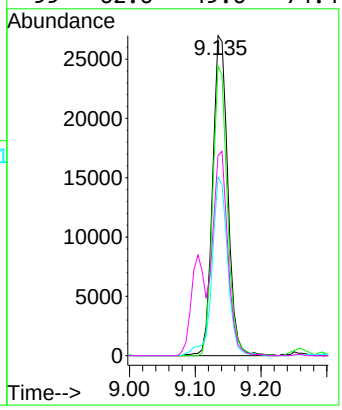




#55
1,1,2-Trichloroethane
Concen: 21.677 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 97 Resp: 4353

Ion	Ratio	Lower	Upper
97	100		
83	90.4	69.6	104.4
85	55.8	45.0	67.6
99	62.6	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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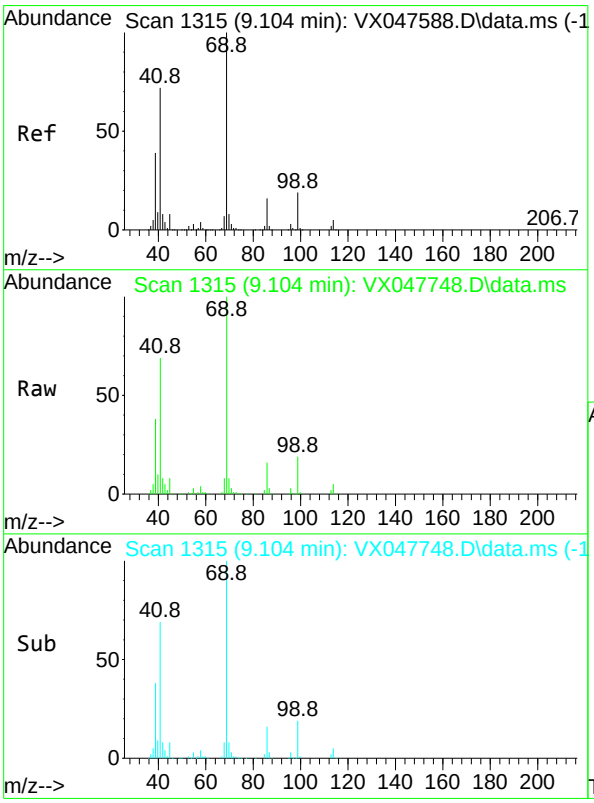
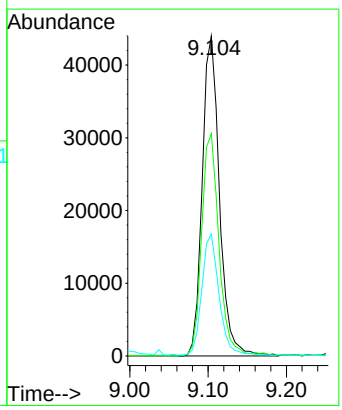
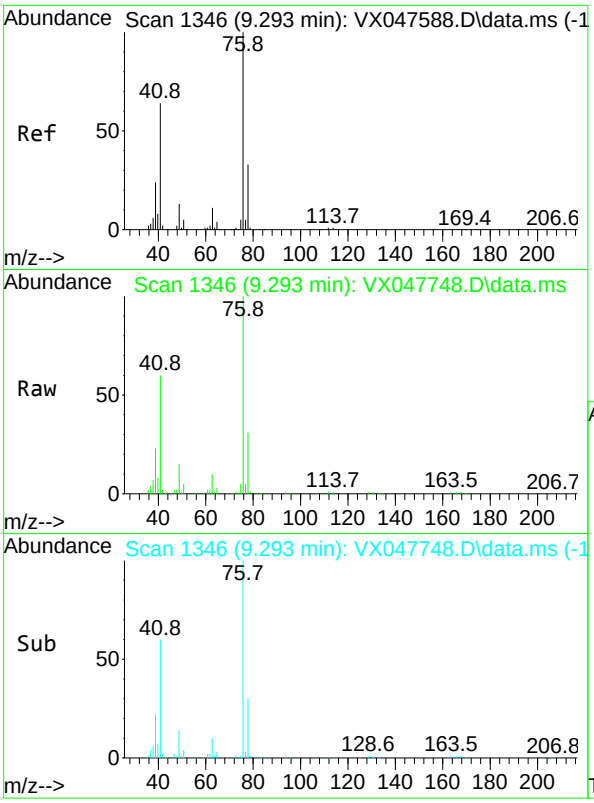


#56
Ethyl methacrylate
Concen: 21.313 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 69 Resp: 67219

Ion	Ratio	Lower	Upper
69	100		
41	69.3	58.6	87.8
39	37.7	31.5	47.3

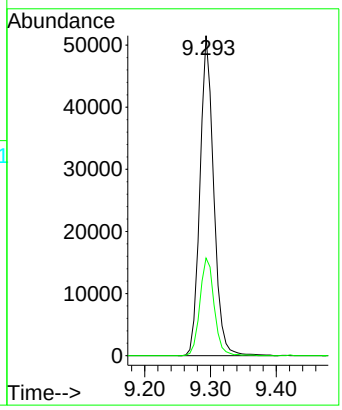




#57
1,3-Dichloropropane
Concen: 21.667 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 76 Resp: 7474

Ion	Ratio	Lower	Upper
76	100		
78	31.7	26.2	39.4



Instrument :
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VX0923WBS03

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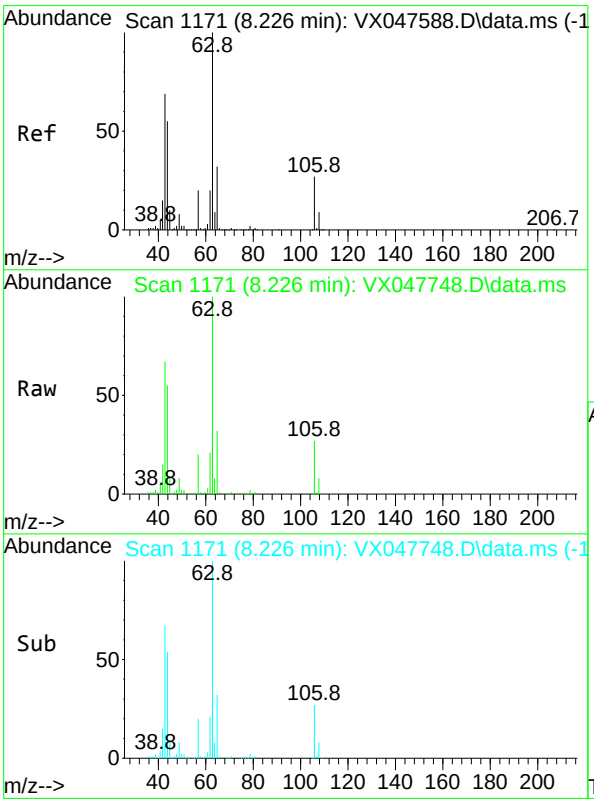
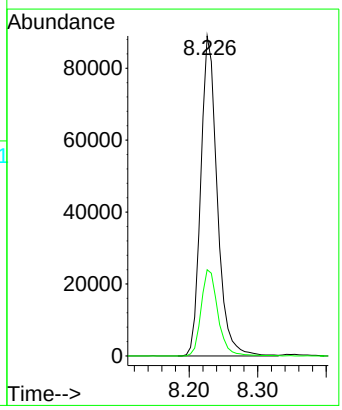
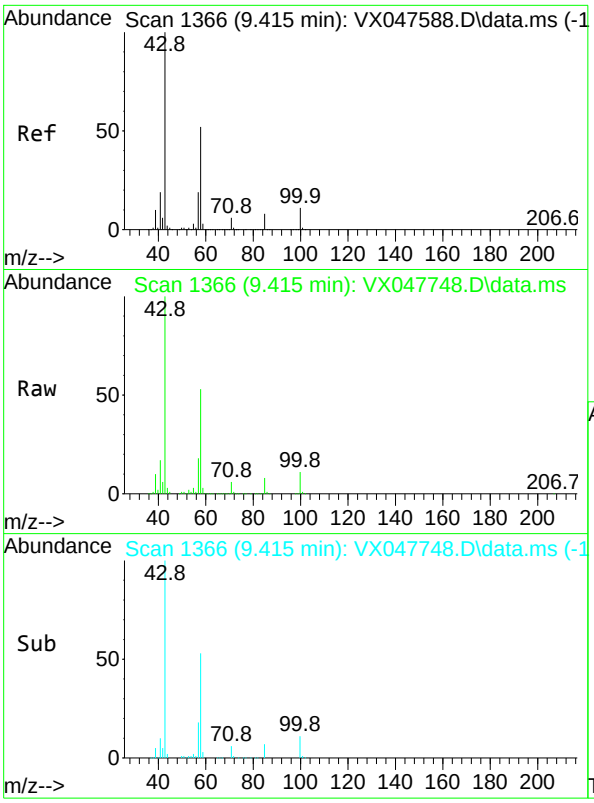


#58
2-Chloroethyl Vinyl ether
Concen: 105.735 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 148860

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9

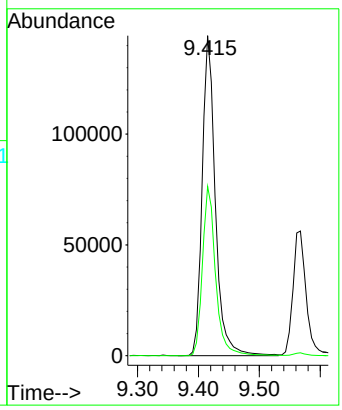




#59
2-Hexanone
Concen: 111.587 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 21717

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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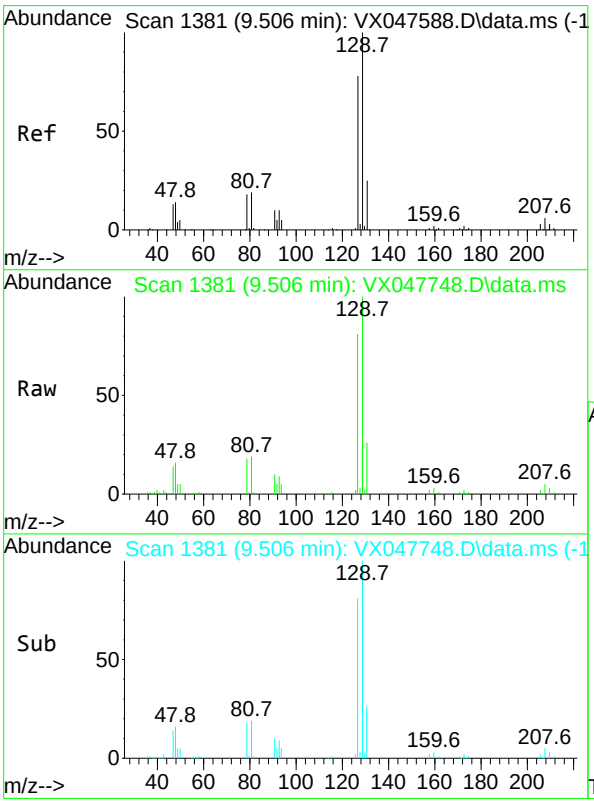
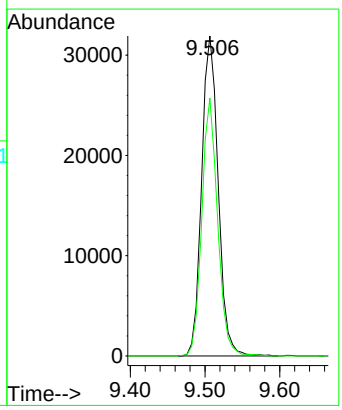
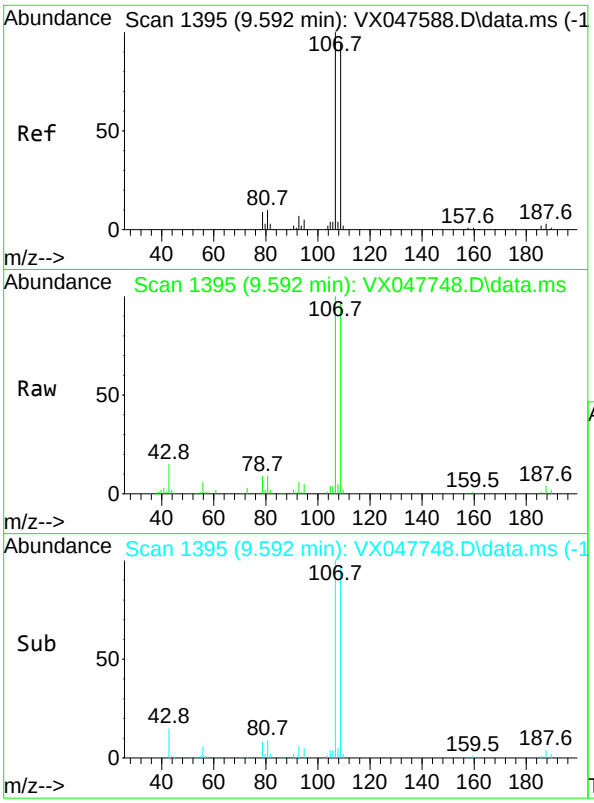


#60
Dibromochloromethane
Concen: 21.170 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:129 Resp: 48986

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.4	115.2

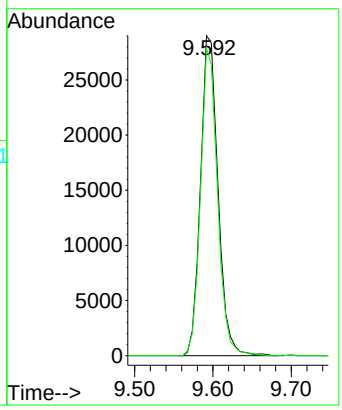




#61
1,2-Dibromoethane
Concen: 22.022 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:107 Resp: 4504

Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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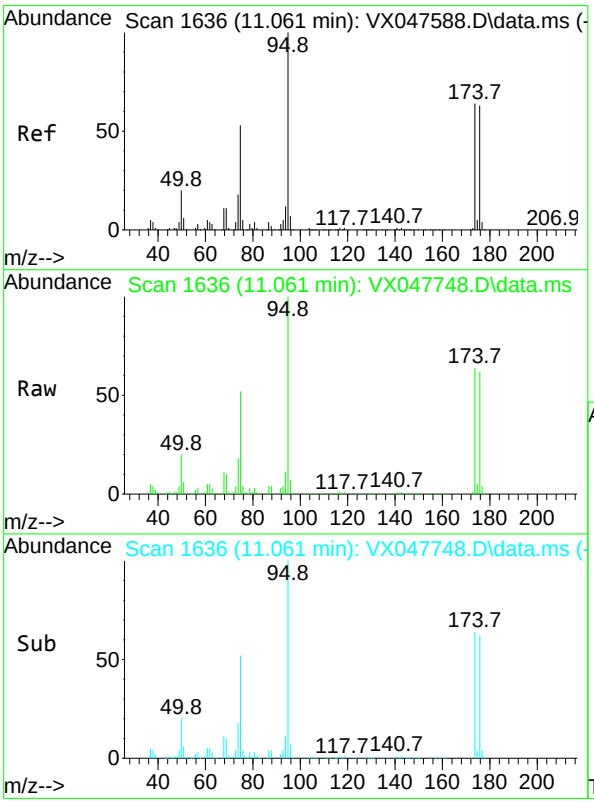
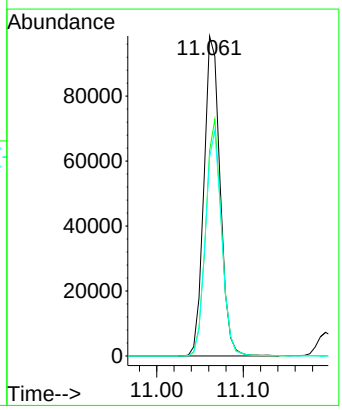
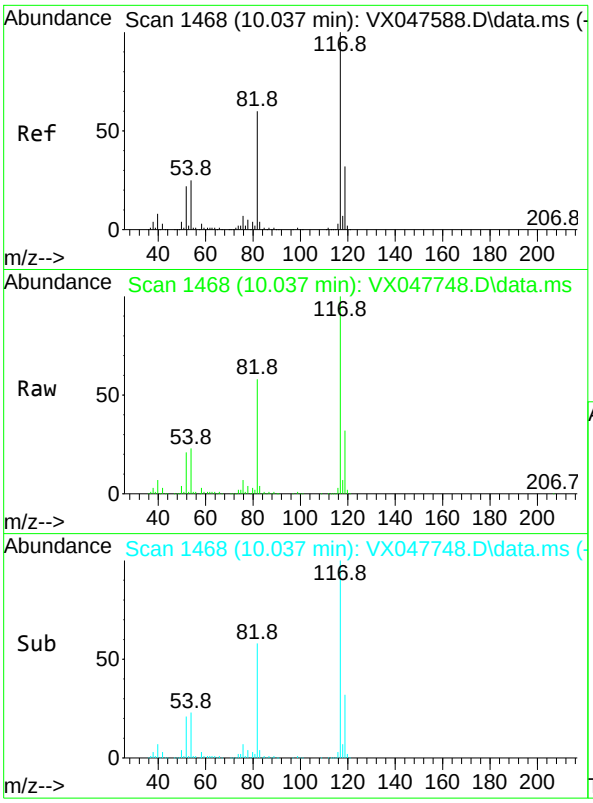


#62
4-Bromofluorobenzene
Concen: 51.072 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 95 Resp: 127747

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.6
176	70.7	0.0	138.4

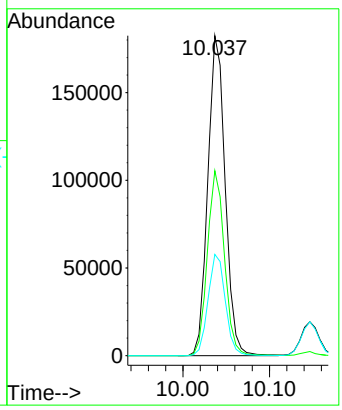




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 25395

Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.8	71.6
119	31.7	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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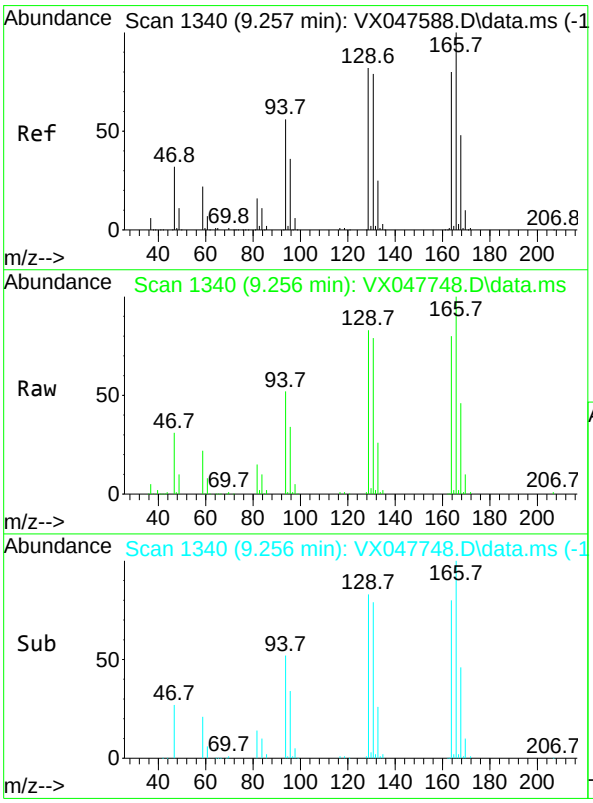
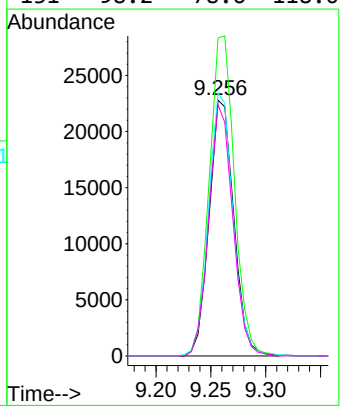
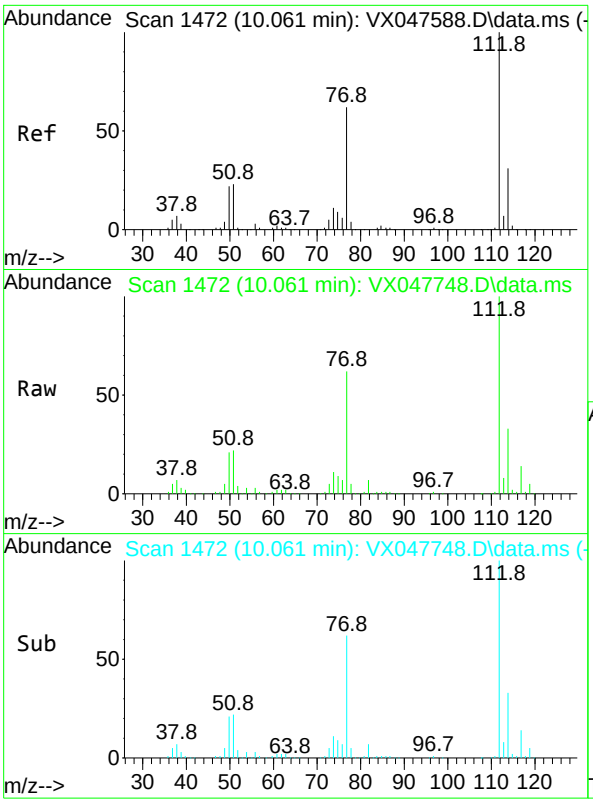


#64
Tetrachloroethene
Concen: 21.442 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:164 Resp: 35498

Ion	Ratio	Lower	Upper
164	100		
166	124.3	100.2	150.2
129	102.7	81.8	122.6
131	98.2	78.6	118.0

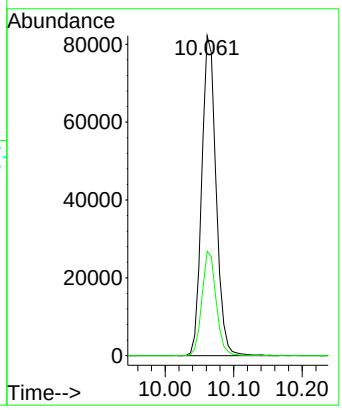




#65
Chlorobenzene
Concen: 20.738 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:112 Resp: 11964

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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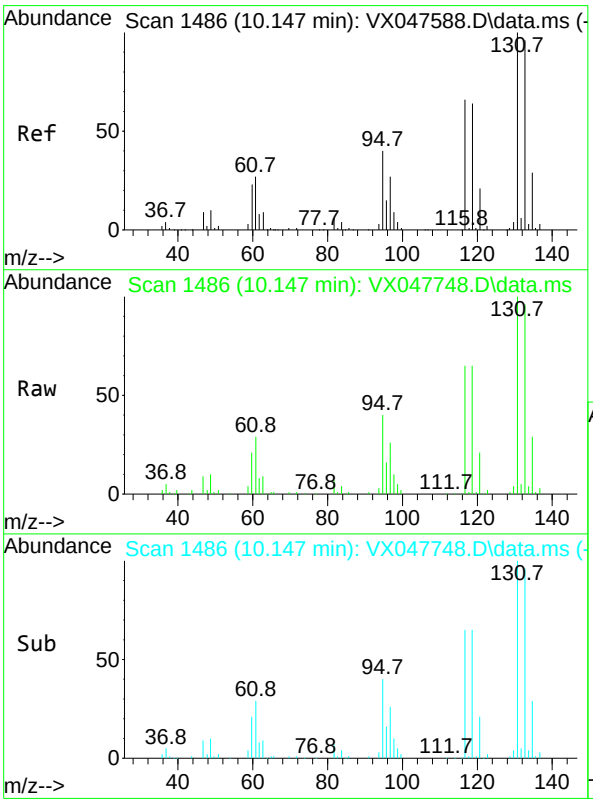
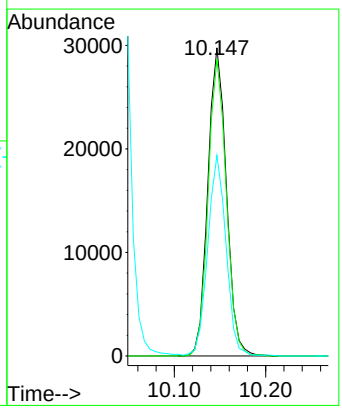
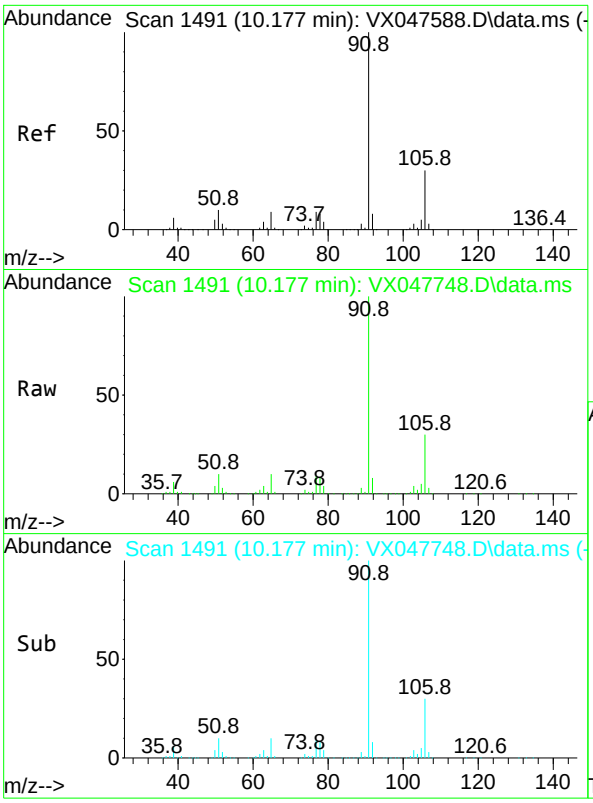


#66
1,1,1,2-Tetrachloroethane
Concen: 21.001 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:131 Resp: 41811

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.3	142.0
119	64.4	32.0	96.0

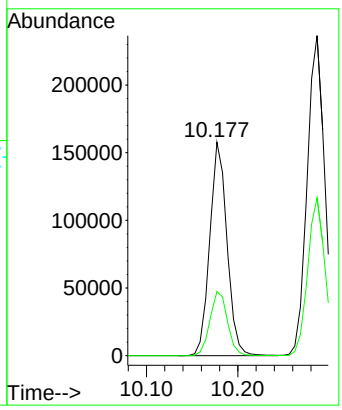




#67
Ethyl Benzene
Concen: 20.757 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 20663

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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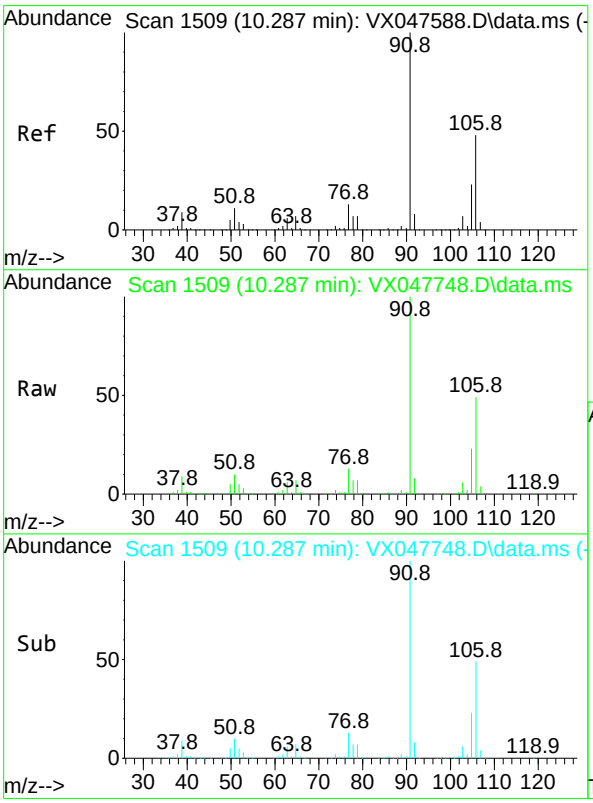
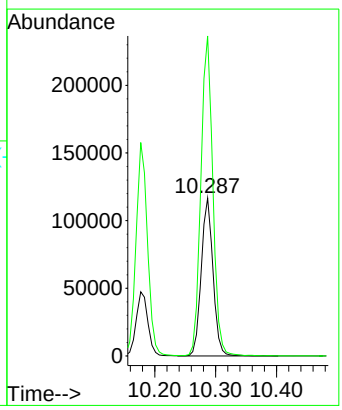
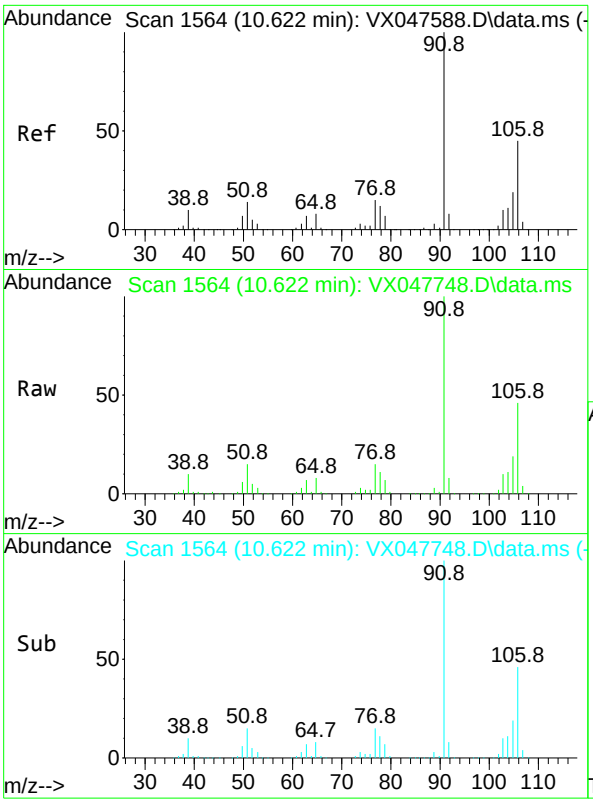


#68
m/p-Xylenes
Concen: 42.264 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:106 Resp: 156597

Ion	Ratio	Lower	Upper
106	100		
91	206.5	167.8	251.8

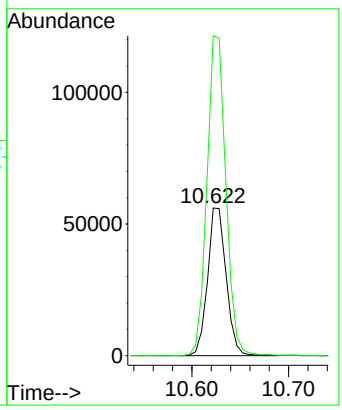




#69
o-Xylene
Concen: 20.945 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:106 Resp: 7506

Ion	Ratio	Lower	Upper
106	100		
91	221.1	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
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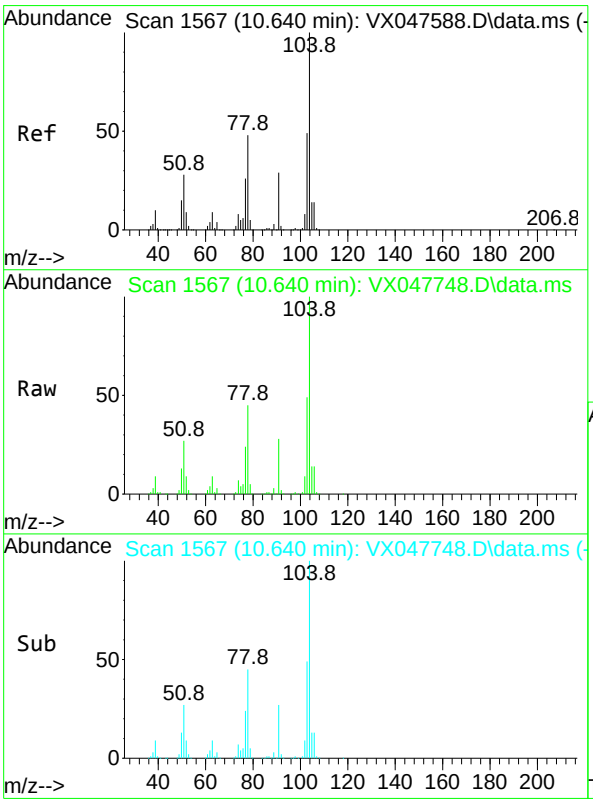
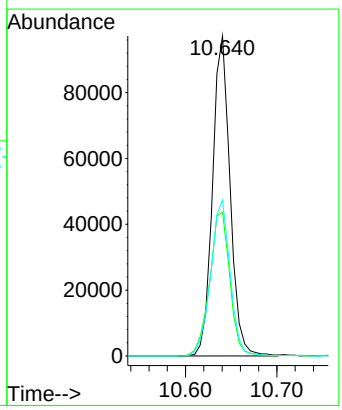
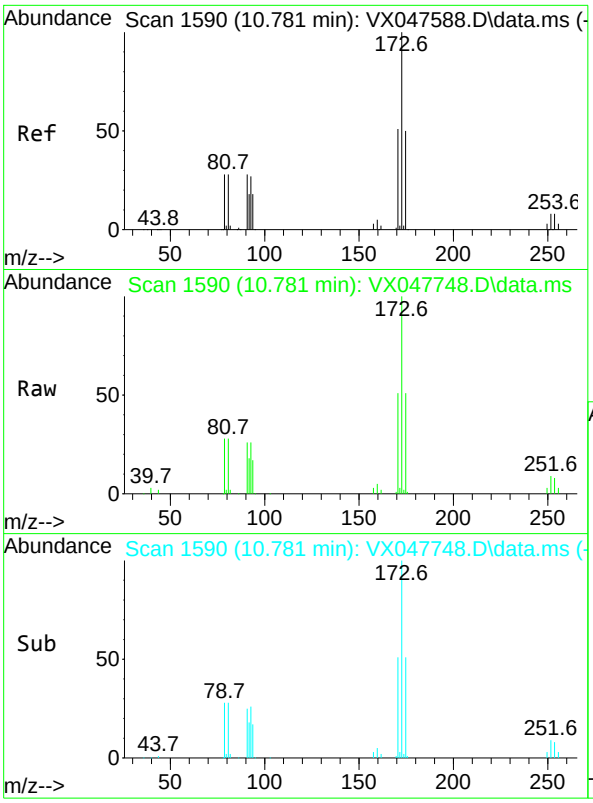


#70
Styrene
Concen: 20.651 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:104 Resp: 129679

Ion	Ratio	Lower	Upper
104	100		
78	51.9	43.1	64.7
103	53.9	43.1	64.7

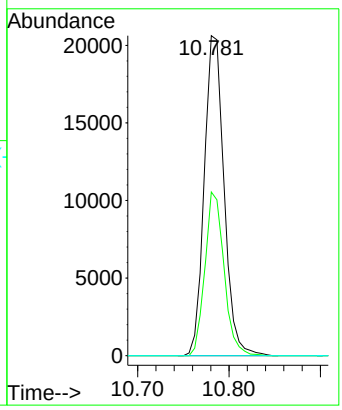




#71
Bromoform
Concen: 20.854 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:173 Resp: 3100

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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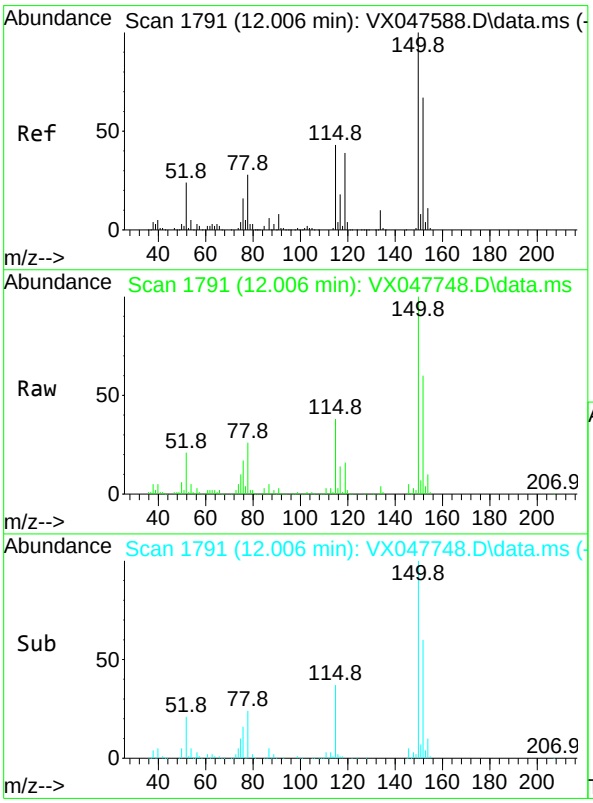
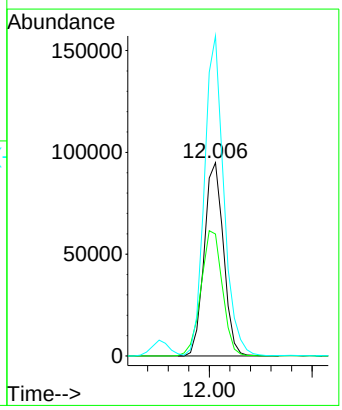
Supervised By :Mahesh Dadoda 09/26/2025

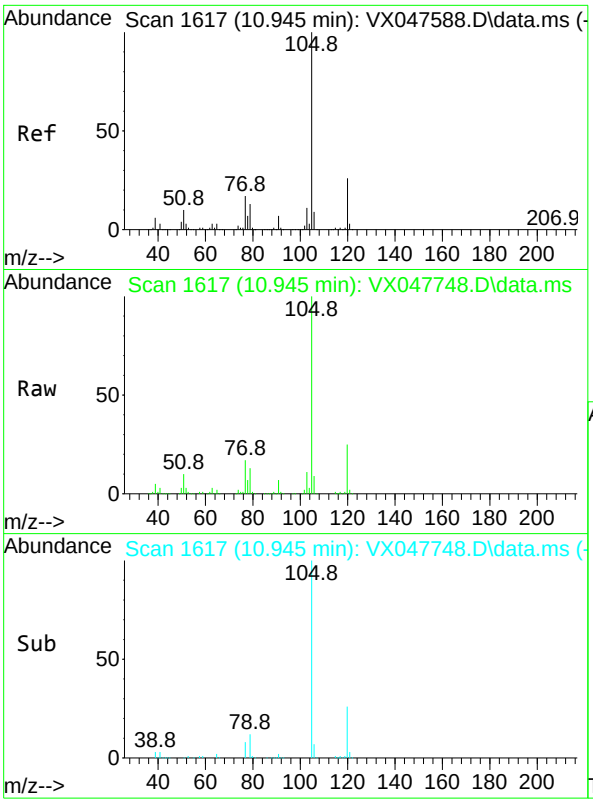


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:152 Resp: 123765

Ion	Ratio	Lower	Upper
152	100		
115	71.9	44.9	134.5
150	166.4	0.0	352.0

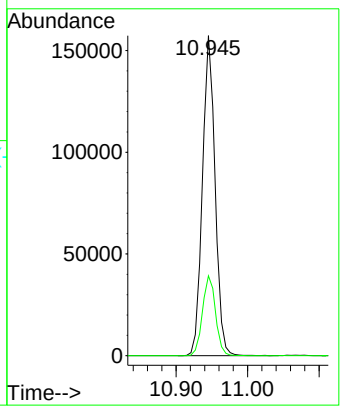




#73
Isopropylbenzene
Concen: 20.548 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 19334

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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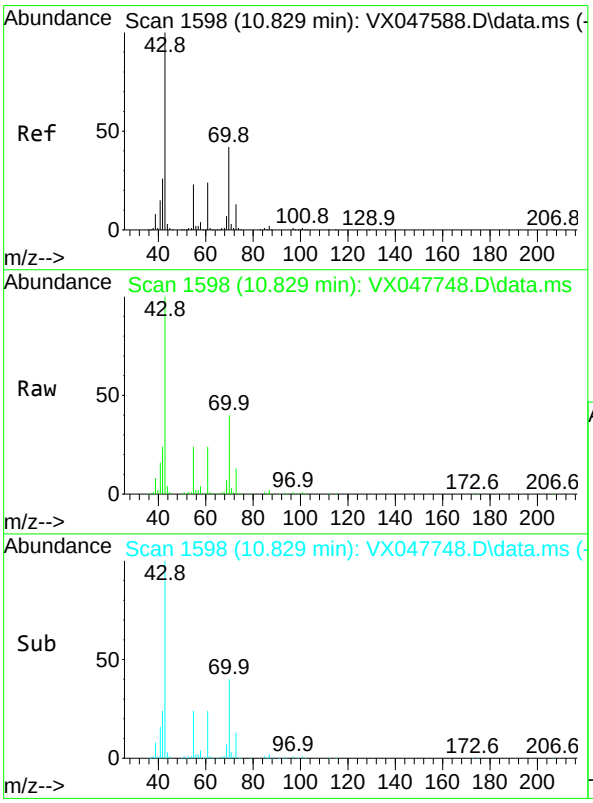
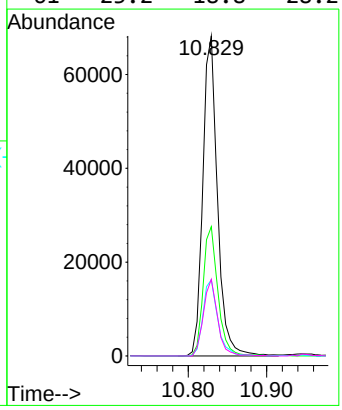
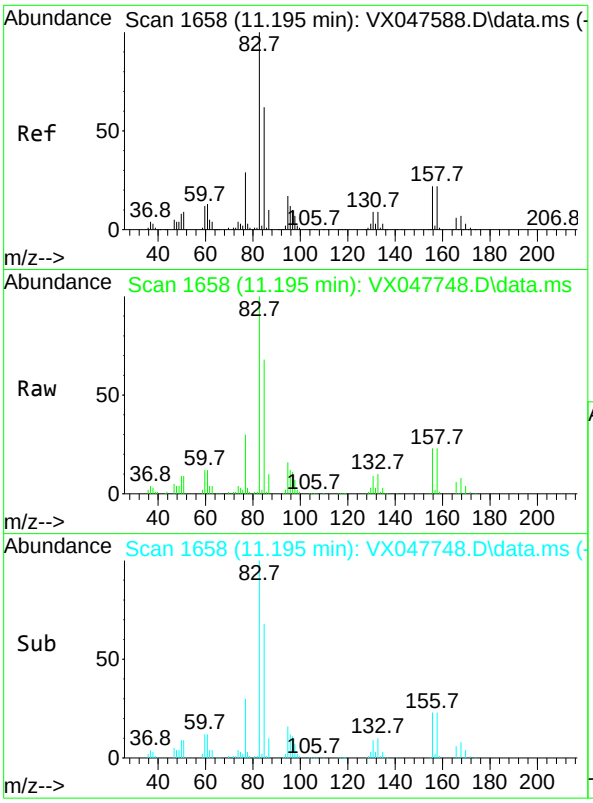


#74
N-amyl acetate
Concen: 20.640 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 88563

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	24.1	18.9	28.3
61	23.2	18.8	28.2

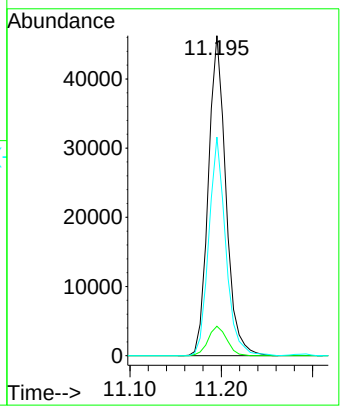




#75
1,1,2,2-Tetrachloroethane
Concen: 21.584 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 6144

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	66.0	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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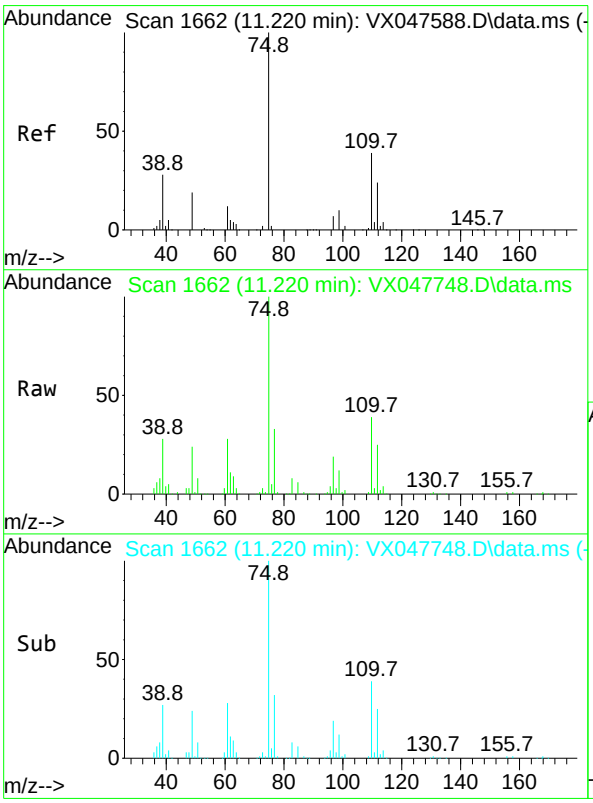
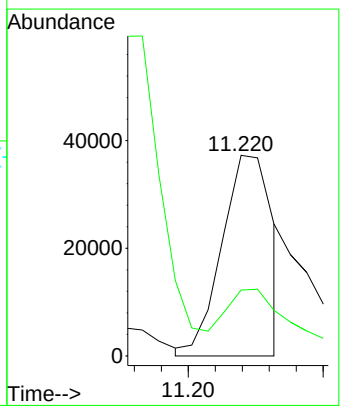
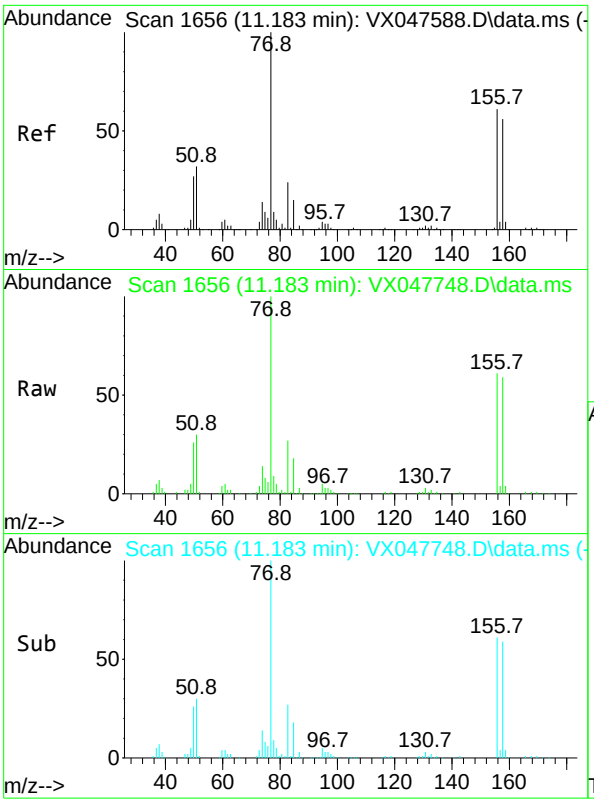


#76
1,2,3-Trichloropropane
Concen: 19.360 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 48514

Ion	Ratio	Lower	Upper
75	100		
77	44.0	18.8	56.4

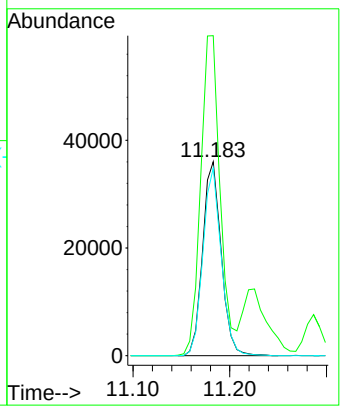




#77
Bromobenzene
Concen: 20.791 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:156 Resp: 4818

Ion	Ratio	Lower	Upper
156	100		
77	173.7	89.7	269.1
158	95.4	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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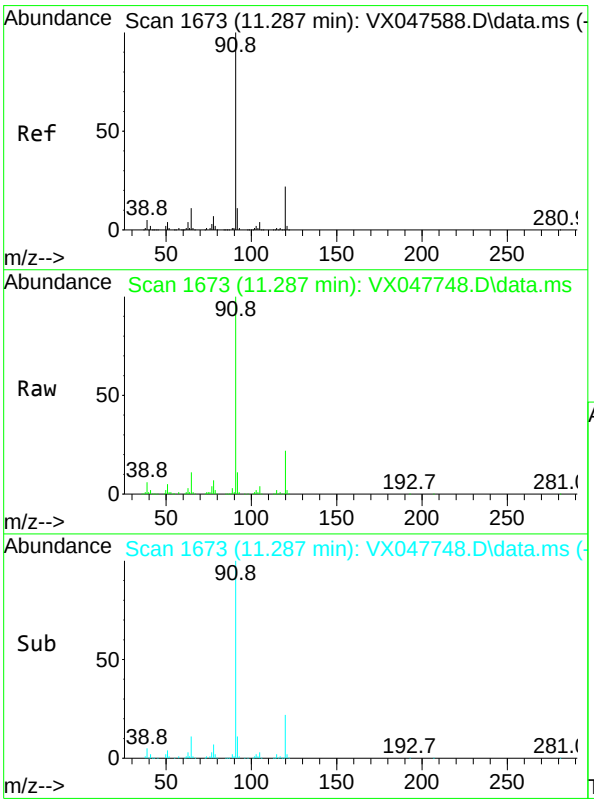
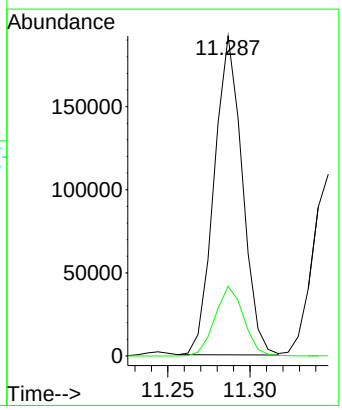
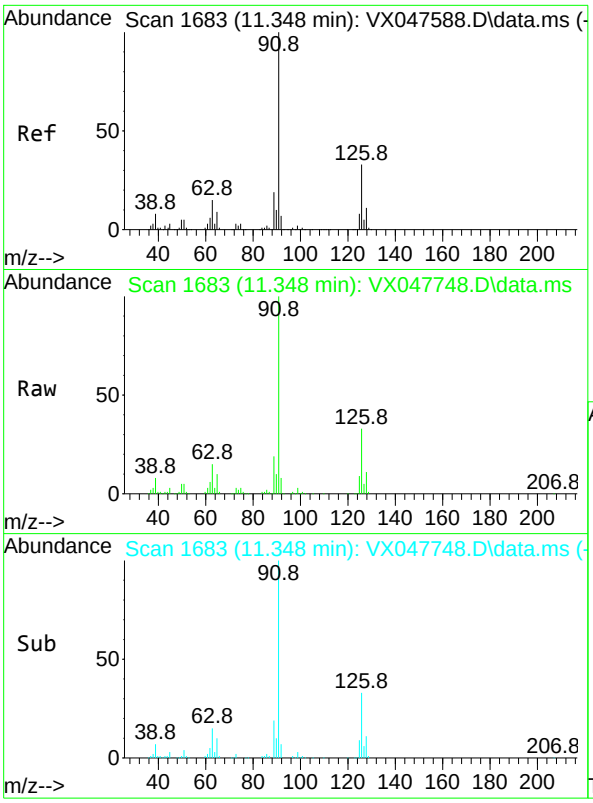


#78
n-propylbenzene
Concen: 20.542 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 228489

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1

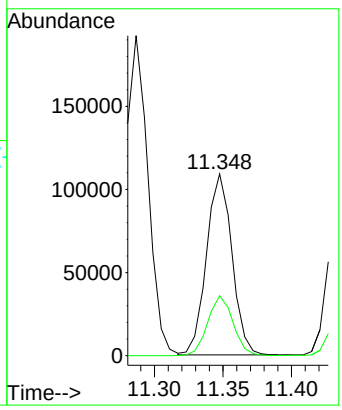




#79
2-Chlorotoluene
Concen: 20.647 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 14066

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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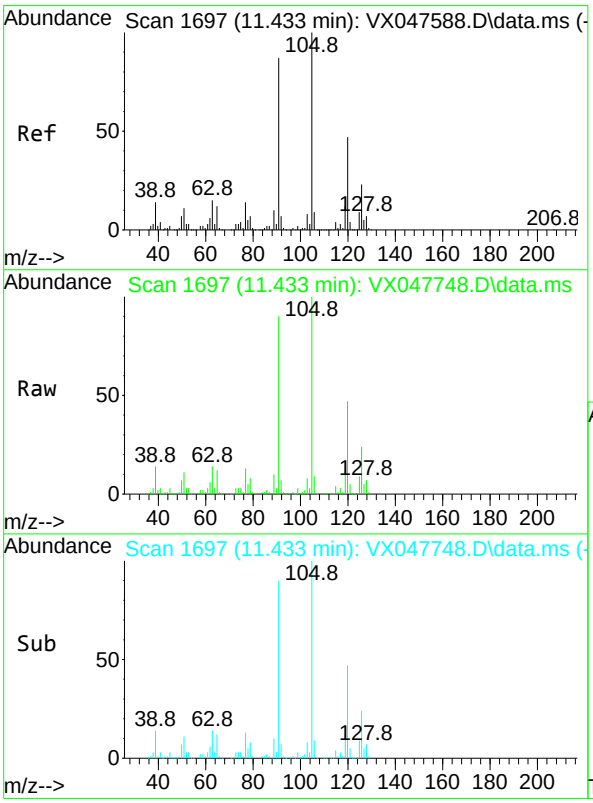
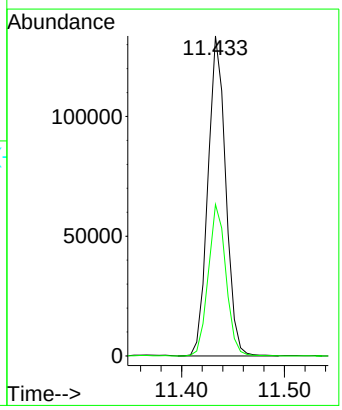
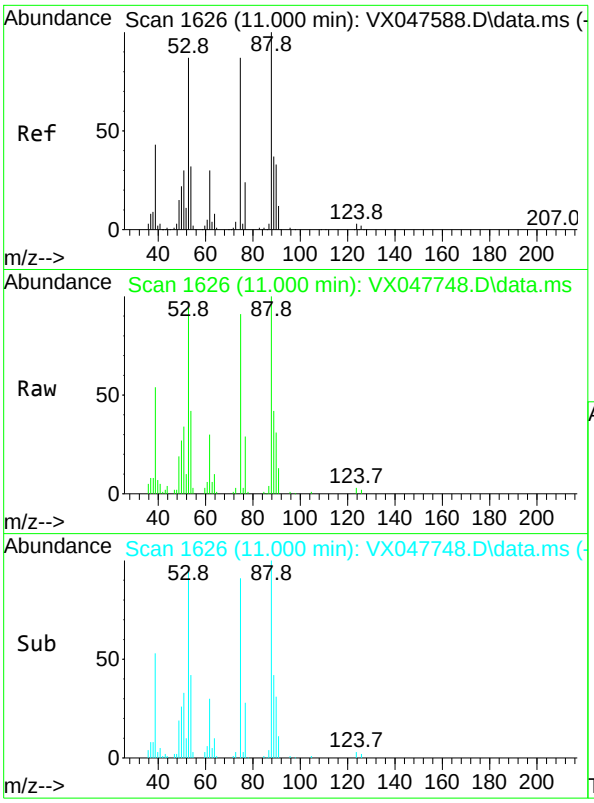


#80
1,3,5-Trimethylbenzene
Concen: 20.764 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 160516

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.6	70.8

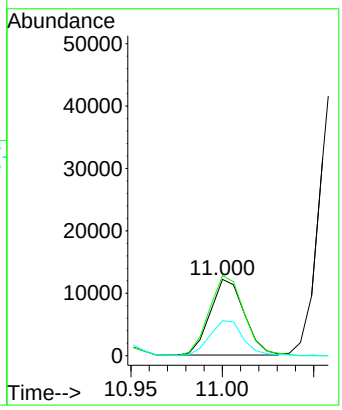




#81
trans-1,4-Dichloro-2-butene
Concen: 16.123 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 1584

Ion	Ratio	Lower	Upper
75	100		
53	108.2	83.4	125.2
89	45.5	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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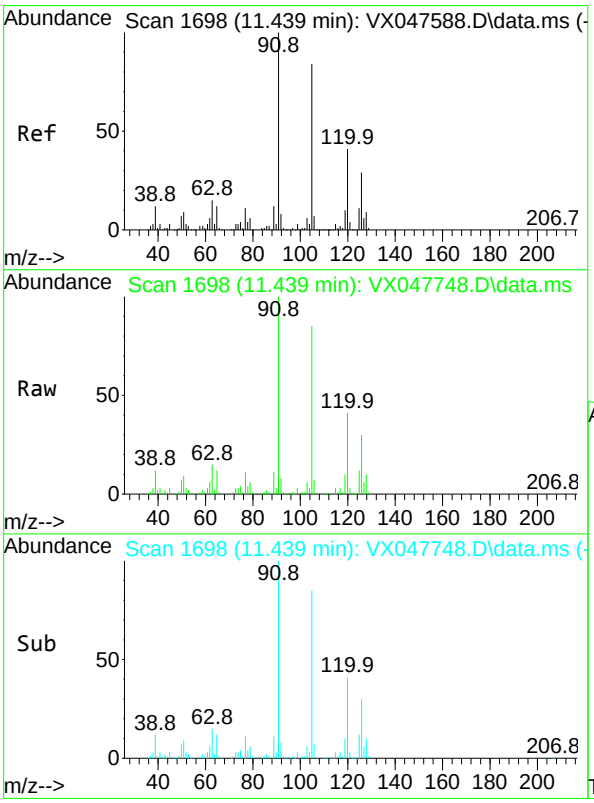
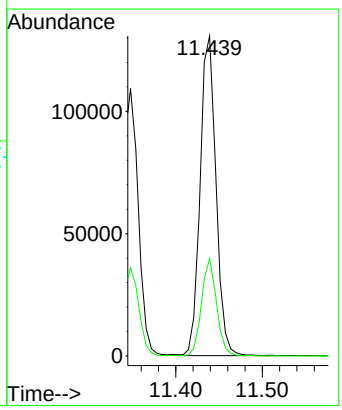
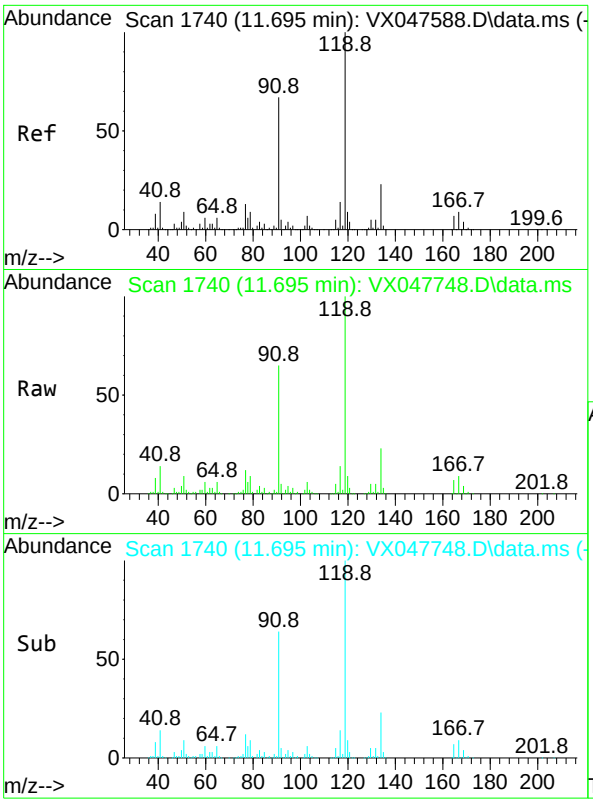


#82
4-Chlorotoluene
Concen: 20.635 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 166032

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.2	42.6

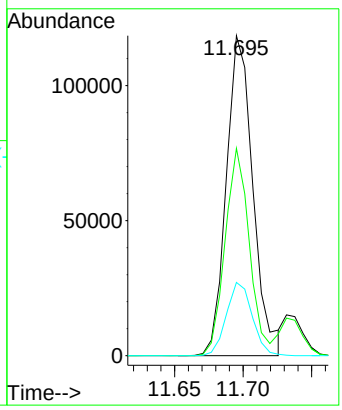




#83
tert-Butylbenzene
Concen: 20.248 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:119 Resp: 16023

Ion	Ratio	Lower	Upper
119	100		
91	59.0	29.6	88.8
134	22.2	11.0	33.0



Instrument :
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ClientSampleId :
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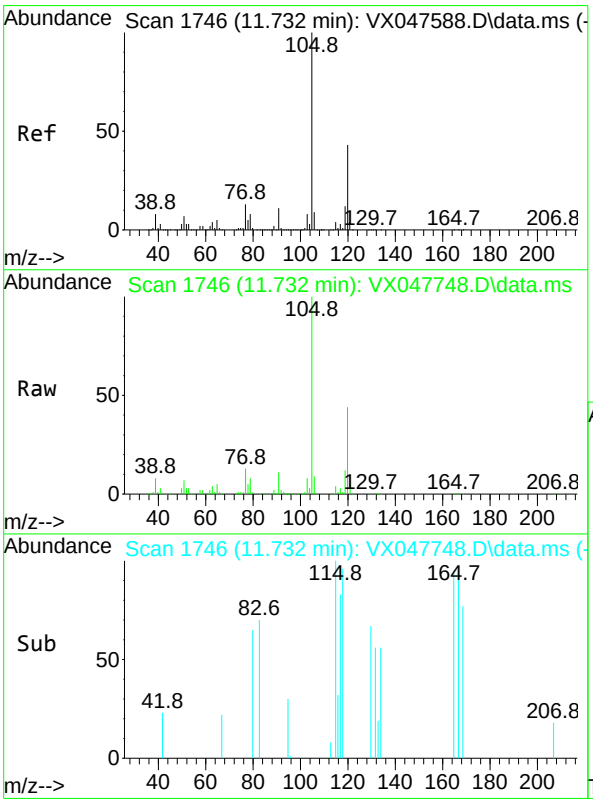
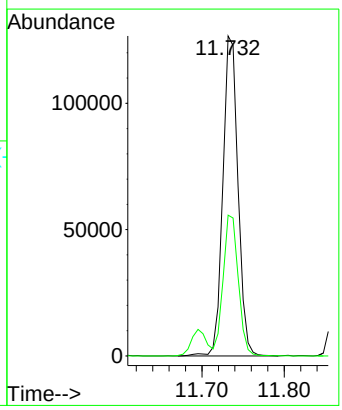
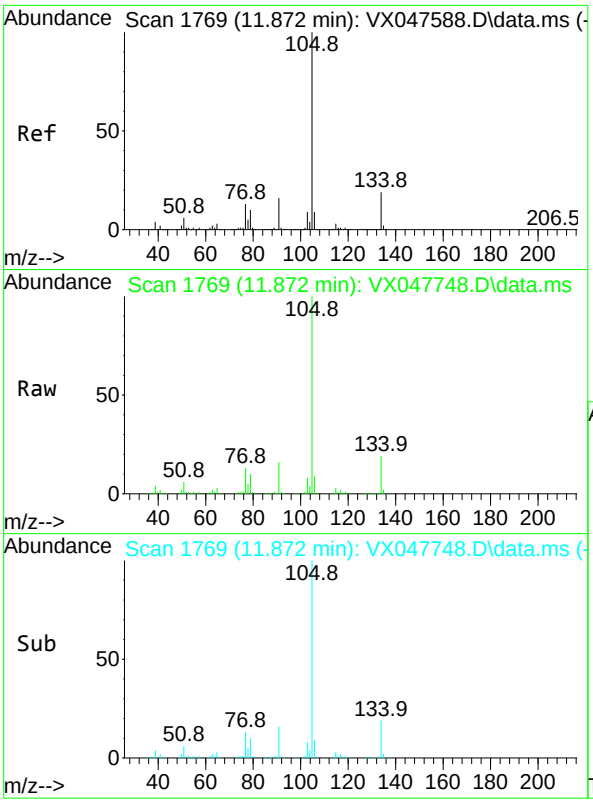


#84
1,2,4-Trimethylbenzene
Concen: 20.665 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 161967

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

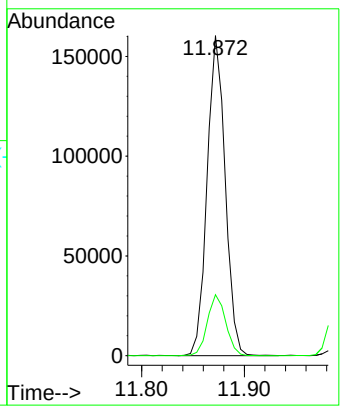




#85
sec-Butylbenzene
Concen: 20.870 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 19617

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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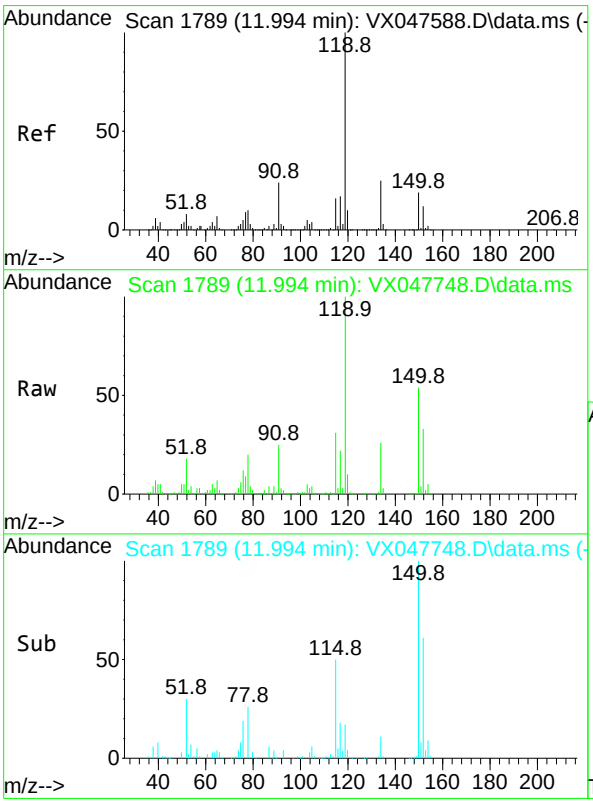
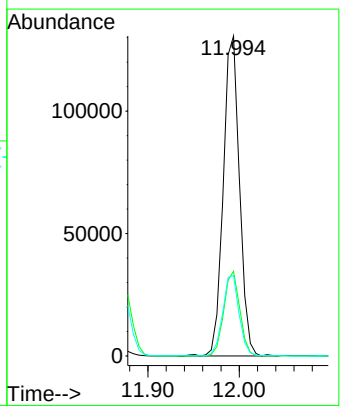
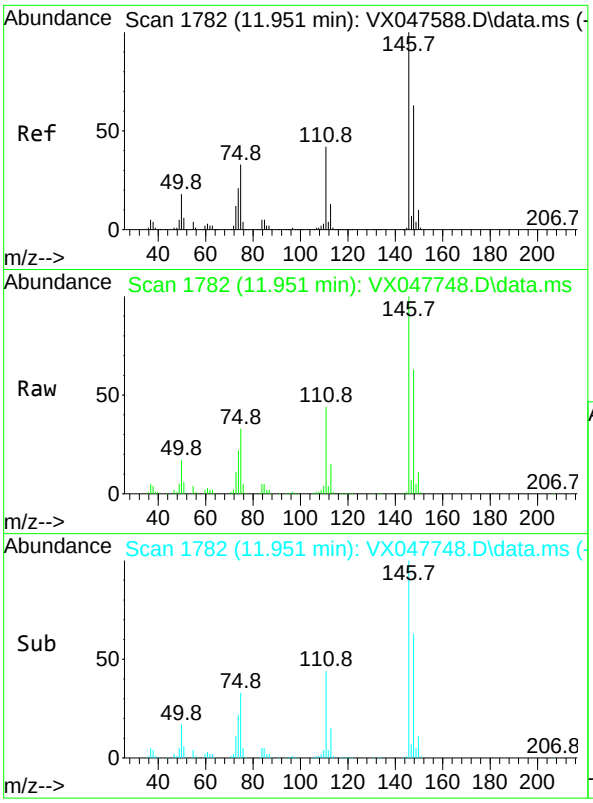


#86
p-Isopropyltoluene
Concen: 20.326 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:119 Resp: 161751

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	25.6	12.6	37.6

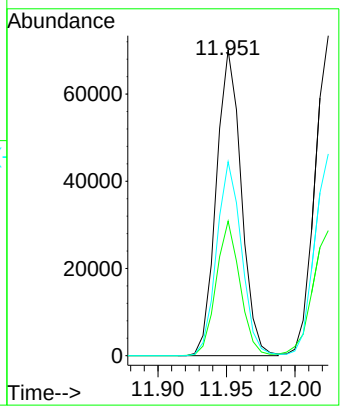




#87
1,3-Dichlorobenzene
Concen: 20.598 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:146 Resp: 8866

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	63.3	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

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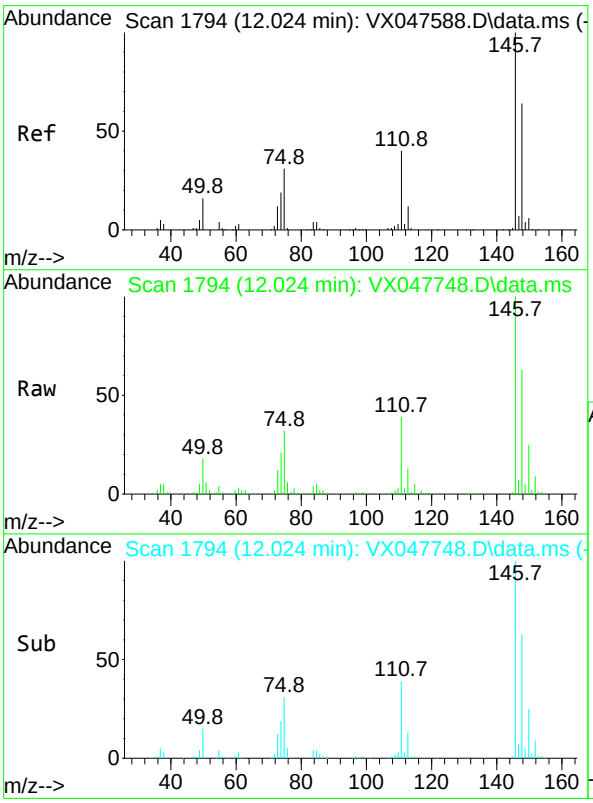
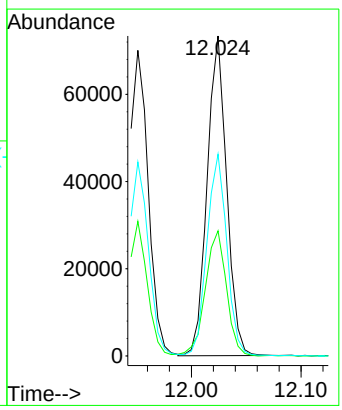
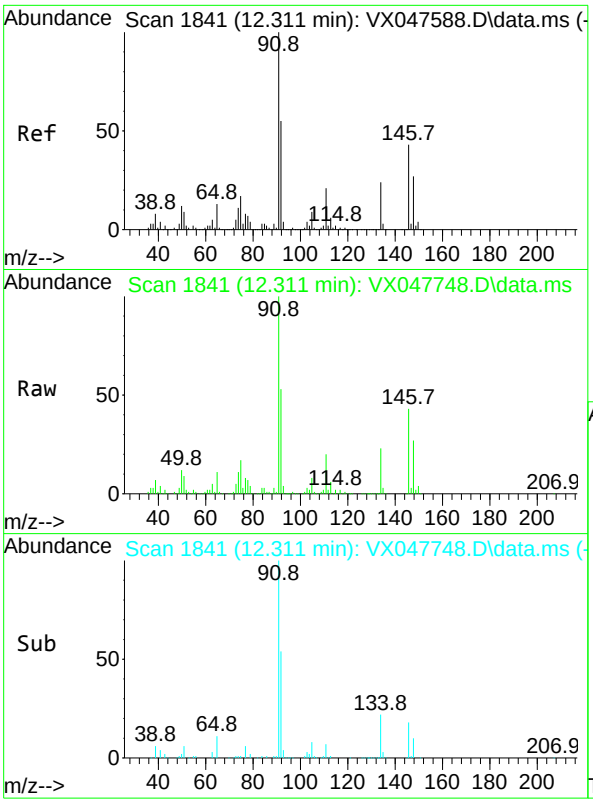


#88
1,4-Dichlorobenzene
Concen: 20.539 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:146 Resp: 90738

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.4
148	64.3	31.7	95.1





#89
n-Butylbenzene
Concen: 20.116 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 14812

Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.6	82.7
134	24.7	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
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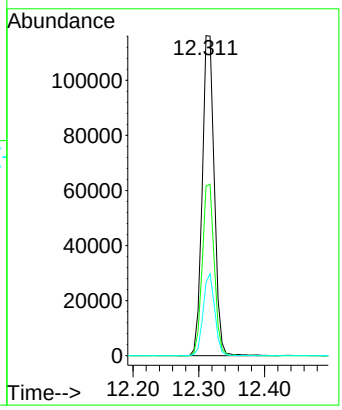
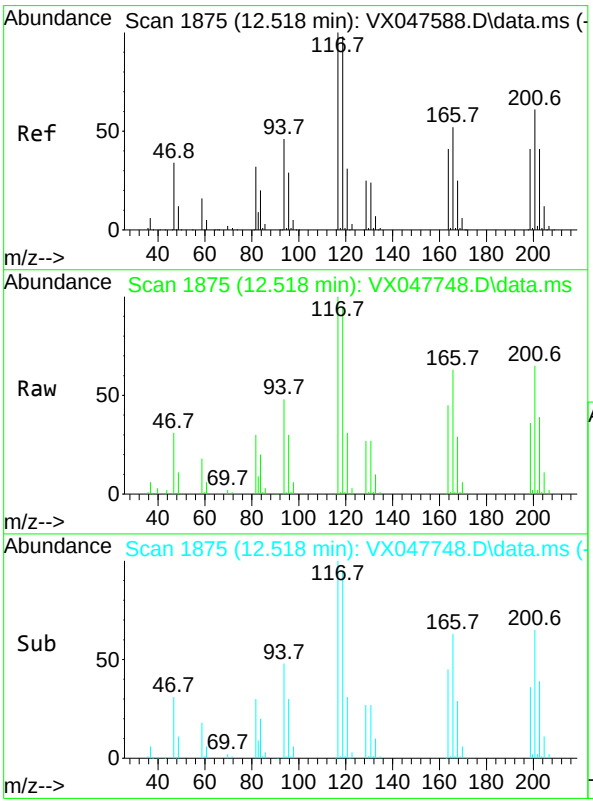
Supervised By :Mahesh Dadoda 09/26/2025

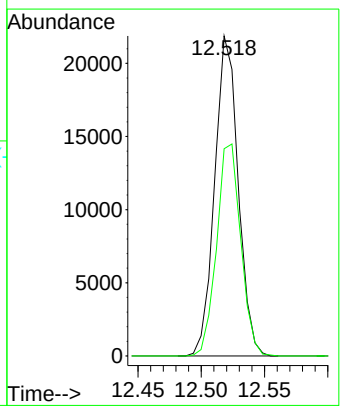


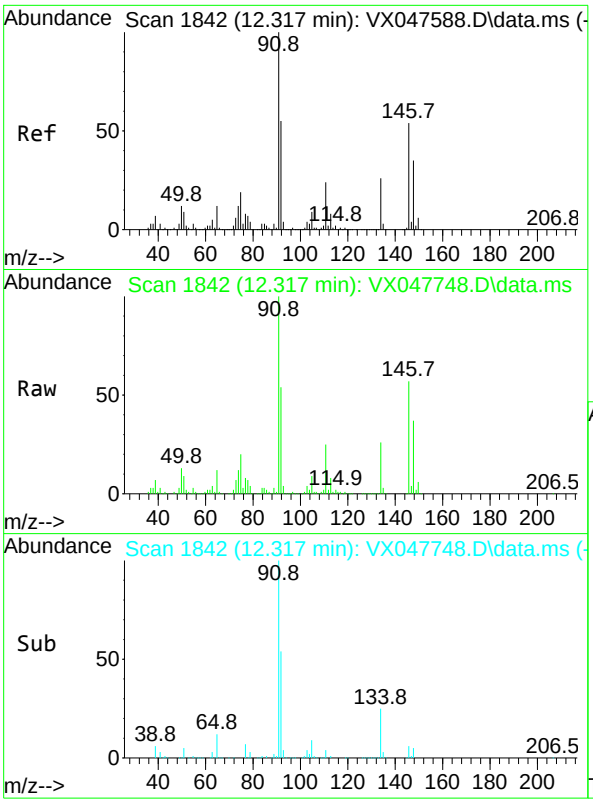


#90
Hexachloroethane
Concen: 20.199 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 28222

Ion	Ratio	Lower	Upper
117	100		
201	68.0	34.2	102.5

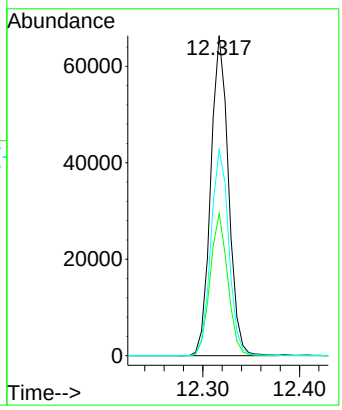




#91
1,2-Dichlorobenzene
Concen: 20.655 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:146 Resp: 8470

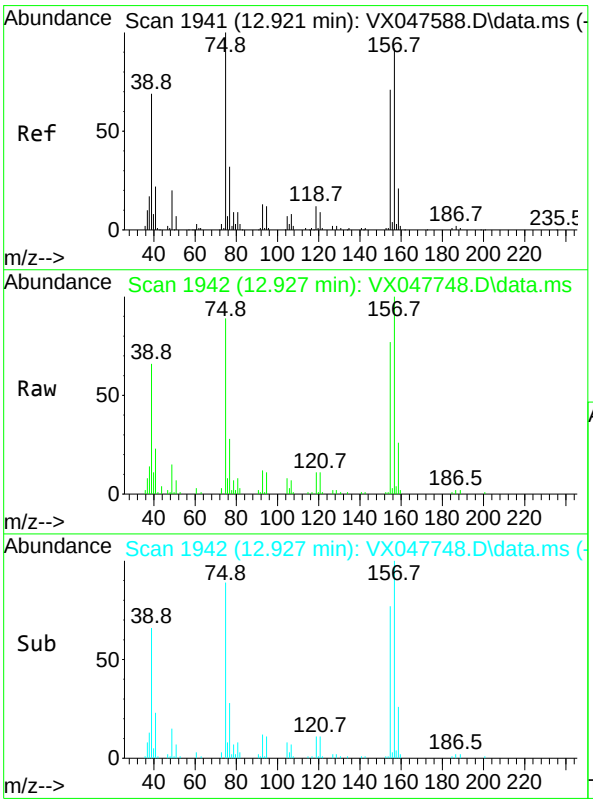
Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.2	66.6
148	65.0	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

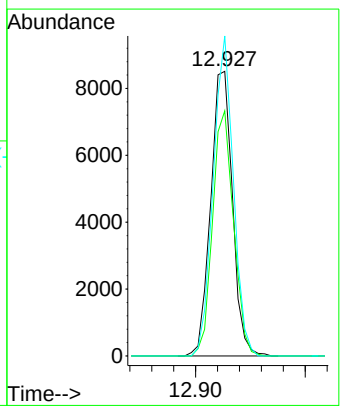
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

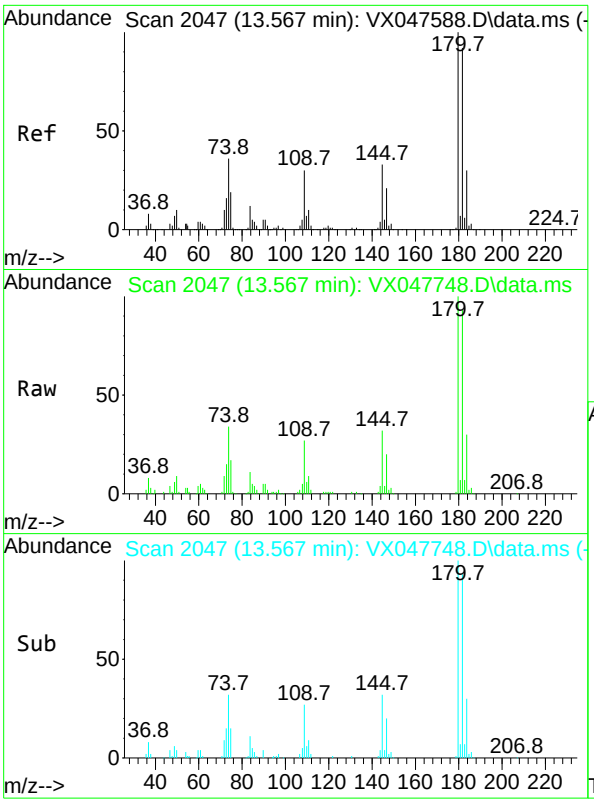


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.397 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 11756

Ion	Ratio	Lower	Upper
75	100		
155	82.8	37.7	113.1
157	104.0	49.8	149.4

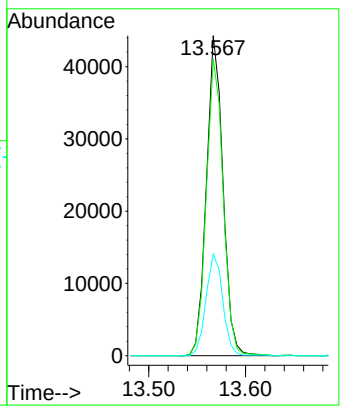




#93
1,2,4-Trichlorobenzene
Concen: 19.802 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:180 Resp: 5277

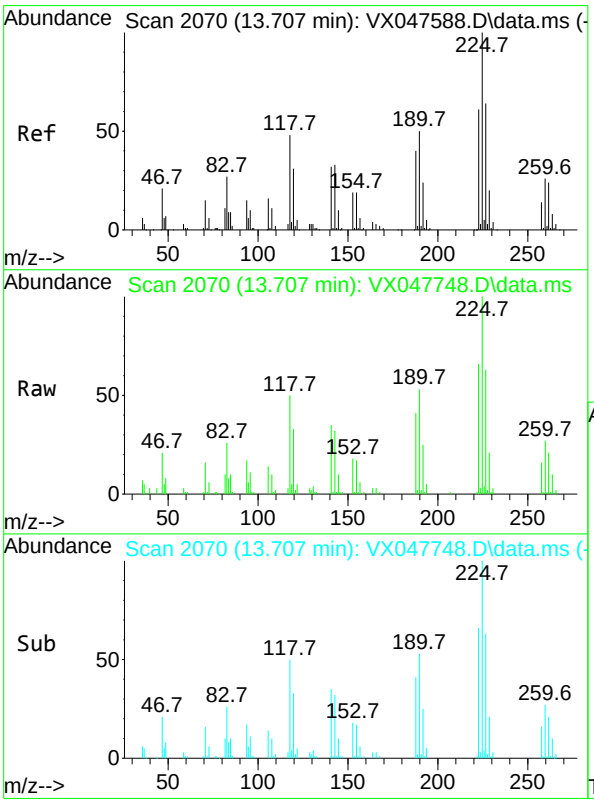
Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.6	139.8
145	32.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

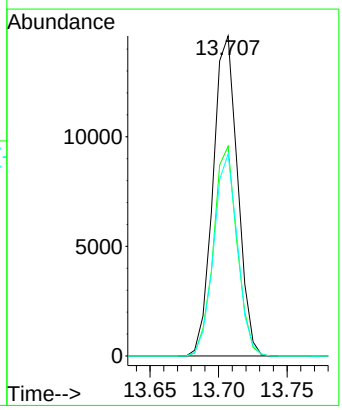
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025

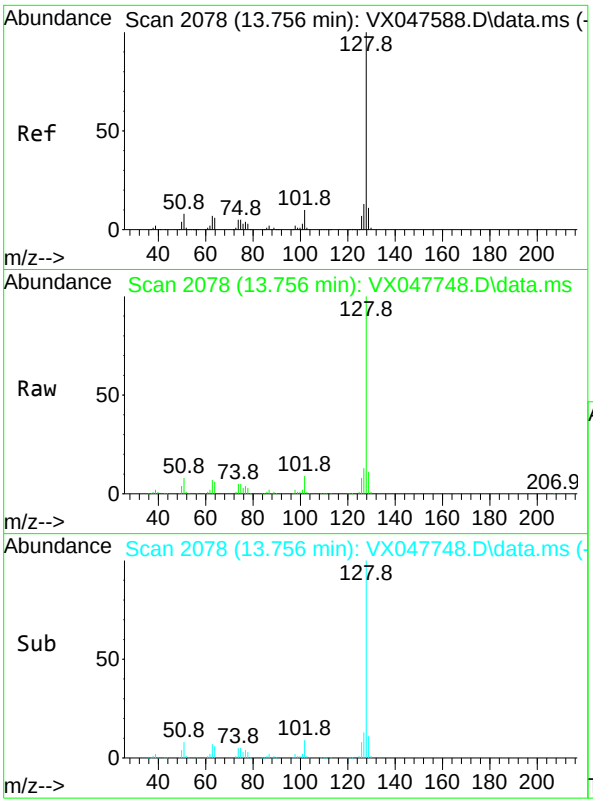


#94
Hexachlorobutadiene
Concen: 20.094 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:225 Resp: 18191

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.7	95.1
227	61.1	32.0	96.0

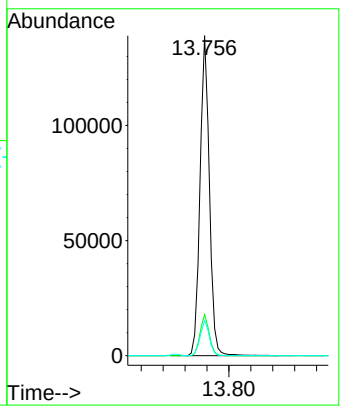




#95
Naphthalene
Concen: 20.298 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:128 Resp: 16473

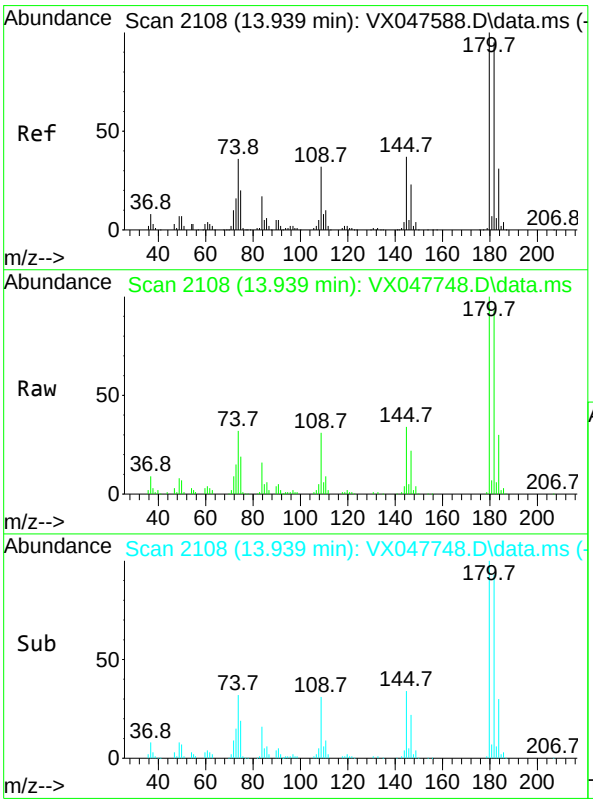
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.7	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Manual Integrations
APPROVED

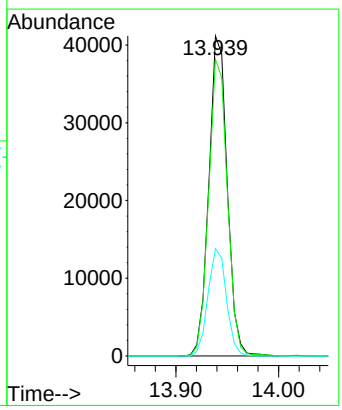
Reviewed By :John Carlone 09/24/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.708 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:180 Resp: 51341

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.6	142.8
145	33.5	17.9	53.7



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0924WBS01	SDG No.:	Q3097
Lab Sample ID:	VX0924WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047772.D	1	09/24/25 13:59	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.1		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	19.8		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	20.1		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	21.7		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.7		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.1		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.4		0.23	0.75	1.00	ug/L
67-64-1	Acetone	94.5		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	19.8		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.6		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	20.7		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.3		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.5		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	18.9		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.0		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	21.0		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	20.1		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.6		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.4		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.0		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.1		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.6		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	19.8		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0924WBS01	SDG No.:	Q3097
Lab Sample ID:	VX0924WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047772.D	1	09/24/25 13:59	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.0		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.7		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	100		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	20.1		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.2		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.1		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.1		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.5		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	19.4		0.12	0.50	1.00	ug/L
100-42-5	Styrene	19.3		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	19.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.7		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.2		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.6		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.9		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.0		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.0		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		80 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	54.7		89 - 112		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		85 - 114		111%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	161000	5.538				
540-36-3	1,4-Difluorobenzene	288000	6.745				
3114-55-4	Chlorobenzene-d5	265000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	129000	12.006				

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX0924WBS01	SDG No.:	Q3097
Lab Sample ID:	VX0924WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047772.D	1	09/24/25 13:59	VX092425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047772.D
Acq On : 24 Sep 2025 13:59
Operator : JC/MD
Sample : VX0924WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 01:13:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	160966	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	287921	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	264714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	129236	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	135679	52.955	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.900%			
35) Dibromofluoromethane	5.367	113	107014	55.420	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.840%			
50) Toluene-d8	8.629	98	365795	54.748	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 109.500%			
62) 4-Bromofluorobenzene	11.061	95	141293	55.720	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	35092	21.053	ug/l	100
3) Chloromethane	1.301	50	43274	19.754	ug/l	99
4) Vinyl Chloride	1.380	62	43176	20.134	ug/l	97
5) Bromomethane	1.618	94	29555	21.735	ug/l	97
6) Chloroethane	1.697	64	28179	19.661	ug/l	97
7) Trichlorofluoromethane	1.898	101	60839	19.107	ug/l	95
8) Diethyl Ether	2.136	74	26212	20.125	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	37011	19.879	ug/l	98
10) Methyl Iodide	2.453	142	53711	18.498	ug/l	99
11) Tert butyl alcohol	2.941	59	25420	89.081	ug/l	99
12) 1,1-Dichloroethene	2.325	96	37164	19.433	ug/l	96
13) Acrolein	2.233	56	22946	87.260	ug/l	99
14) Allyl chloride	2.666	41	73616	18.654	ug/l	97
15) Acrylonitrile	3.056	53	110803	104.829	ug/l	98
16) Acetone	2.374	43	105276	94.499	ug/l	97
17) Carbon Disulfide	2.514	76	103479	19.765	ug/l	99
18) Methyl Acetate	2.697	43	51214	20.657	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	136607	19.568	ug/l	97
20) Methylene Chloride	2.788	84	47324	20.068	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	41747	20.276	ug/l	92
22) Diisopropyl ether	3.751	45	153137	20.023	ug/l	98
23) Vinyl Acetate	3.709	43	604927	98.825	ug/l	100
24) 1,1-Dichloroethane	3.599	63	79300	19.508	ug/l	98
25) 2-Butanone	4.538	43	141867	102.090	ug/l	100
26) 2,2-Dichloropropane	4.465	77	63397	18.761	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	50441	20.004	ug/l	98
28) Bromochloromethane	4.879	49	37245	20.987	ug/l	98
29) Tetrahydrofuran	4.989	42	83194	99.518	ug/l	99
30) Chloroform	5.074	83	82364	20.050	ug/l	100
31) Cyclohexane	5.452	56	64054	18.919	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	68180	19.567	ug/l	99
36) 1,1-Dichloropropene	5.678	75	52624	18.651	ug/l	98
37) Ethyl Acetate	4.690	43	59383	19.656	ug/l	98
38) Carbon Tetrachloride	5.660	117	56770	18.518	ug/l	96
39) Methylcyclohexane	7.367	83	58835	18.369	ug/l	97
40) Benzene	6.025	78	171230	19.980	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047772.D
Acq On : 24 Sep 2025 13:59
Operator : JC/MD
Sample : VX0924WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 01:13:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	30851	19.781	ug/l		96
42) 1,2-Dichloroethane	6.068	62	62217	19.081	ug/l		99
43) Isopropyl Acetate	6.318	43	96880	19.553	ug/l		99
44) Trichloroethene	7.104	130	41002	19.790	ug/l		98
45) 1,2-Dichloropropane	7.415	63	43710	19.919	ug/l		97
46) Dibromomethane	7.562	93	31385	19.654	ug/l		95
47) Bromodichloromethane	7.805	83	64722	19.641	ug/l		99
48) Methyl methacrylate	7.677	41	48200	19.530	ug/l		98
49) 1,4-Dioxane	7.647	88	11736	470.527	ug/l		97
51) 4-Methyl-2-Pentanone	8.555	43	289193	105.270	ug/l		99
52) Toluene	8.702	92	104564	19.804	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	63962	19.030	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	70664	19.669	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	42278	20.766	ug/l		98
56) Ethyl methacrylate	9.098	69	62475	19.540	ug/l		98
57) 1,3-Dichloropropane	9.293	76	73306	20.961	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	144993	101.954	ug/l		99
59) 2-Hexanone	9.415	43	202304	102.535	ug/l		99
60) Dibromochloromethane	9.506	129	47122	20.088	ug/l		99
61) 1,2-Dibromoethane	9.592	107	44045	21.240	ug/l		100
64) Tetrachloroethene	9.256	164	32977	19.110	ug/l		98
65) Chlorobenzene	10.061	112	118026	19.626	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.147	131	40597	19.563	ug/l		99
67) Ethyl Benzene	10.177	91	197704	19.053	ug/l		99
68) m/p-Xylenes	10.287	106	148875	38.547	ug/l		99
69) o-Xylene	10.622	106	72324	19.361	ug/l		98
70) Styrene	10.634	104	126494	19.325	ug/l		98
71) Bromoform	10.781	173	30430	19.638	ug/l	#	96
73) Isopropylbenzene	10.945	105	183812	18.708	ug/l		99
74) N-amyl acetate	10.829	43	84398	18.837	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	60136	20.230	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	46823m	17.894	ug/l		
77) Bromobenzene	11.183	156	47200	19.505	ug/l		97
78) n-propylbenzene	11.287	91	219305	18.882	ug/l		100
79) 2-Chlorotoluene	11.348	91	133694	18.794	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	152588	18.903	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.000	75	17467	17.023	ug/l		94
82) 4-Chlorotoluene	11.439	91	159461	18.979	ug/l		99
83) tert-Butylbenzene	11.695	119	150008	18.153	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	155933	19.053	ug/l		98
85) sec-Butylbenzene	11.872	105	184409	18.788	ug/l		100
86) p-Isopropyltoluene	11.988	119	155061	18.660	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	86052	19.145	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	86839	18.824	ug/l		97
89) n-Butylbenzene	12.311	91	143536	18.668	ug/l		98
90) Hexachloroethane	12.518	117	26384	18.084	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	83853	19.582	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	11106	18.453	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	52549	18.882	ug/l		98
94) Hexachlorobutadiene	13.707	225	17306	18.307	ug/l		99
95) Naphthalene	13.756	128	156255	18.438	ug/l		99
96) 1,2,3-Trichlorobenzene	13.939	180	49161	18.990	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047772.D
Acq On : 24 Sep 2025 13:59
Operator : JC/MD
Sample : VX0924WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 25 01:13:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations APPROVED

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047772.D
Acq On : 24 Sep 2025 13:59
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ClientSampleId :
VX0924WBS01

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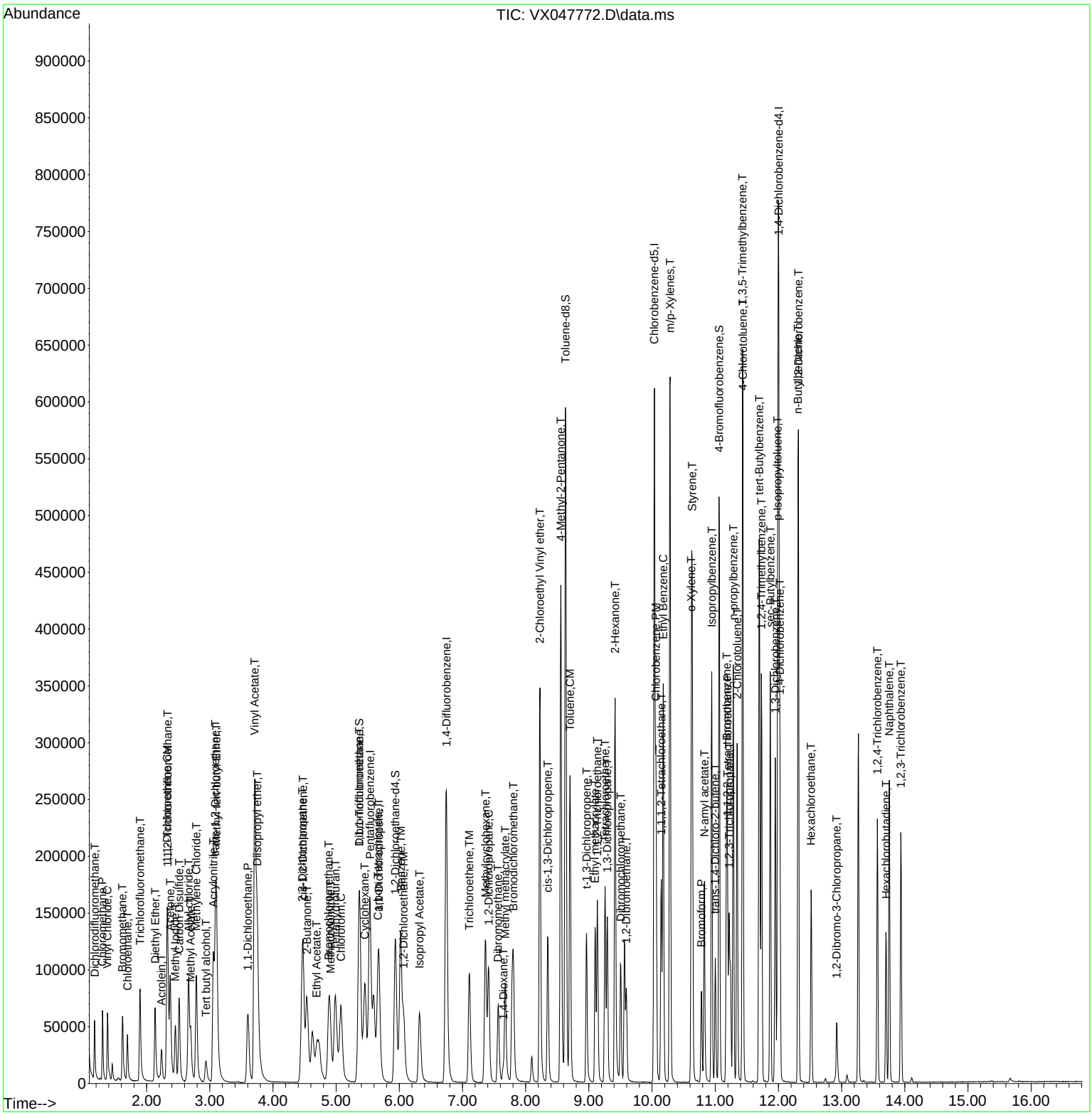
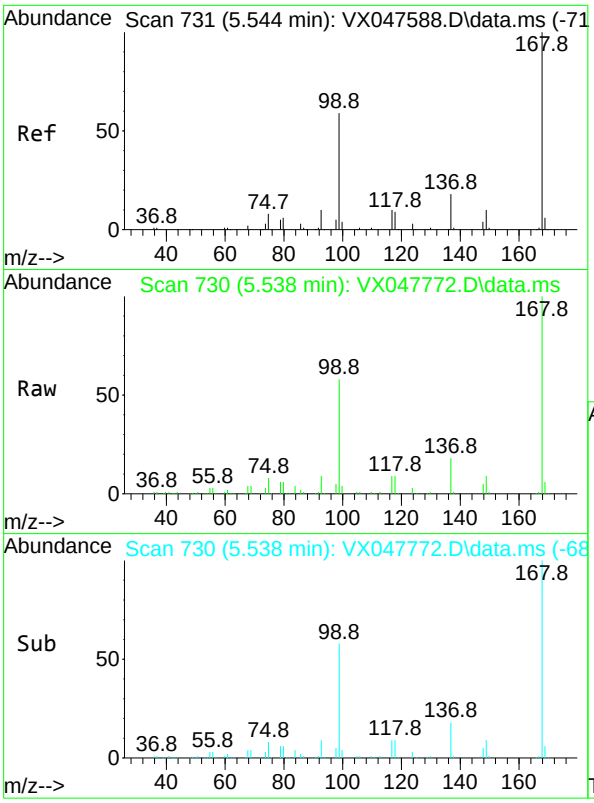
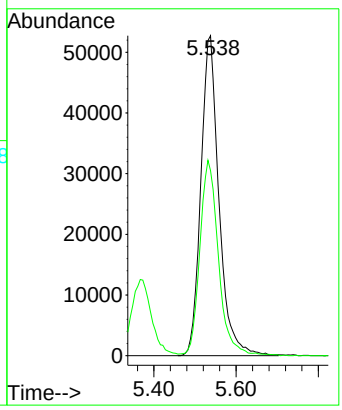




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:168 Resp: 16096

Ion	Ratio	Lower	Upper
168	100		
99	57.6	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations
APPROVED

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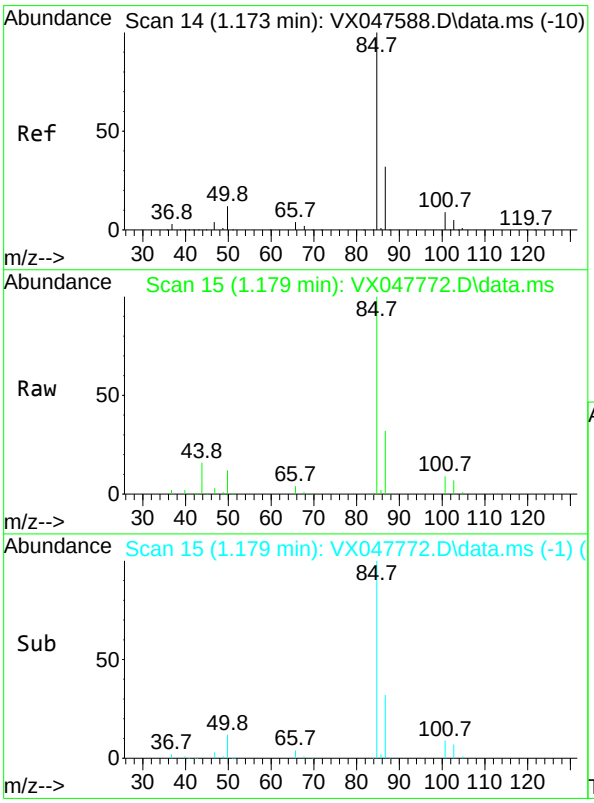
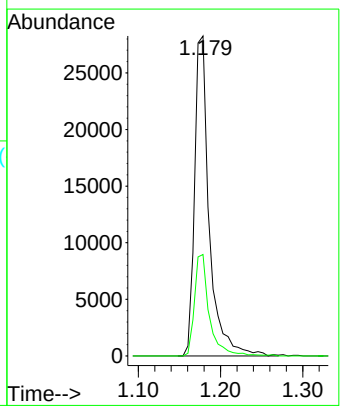
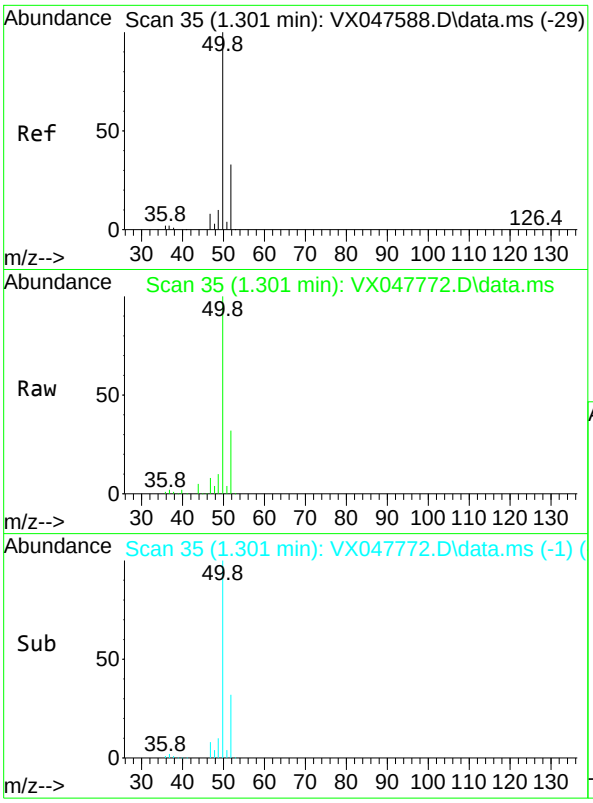


#2
Dichlorodifluoromethane
Concen: 21.053 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 85 Resp: 35092

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3

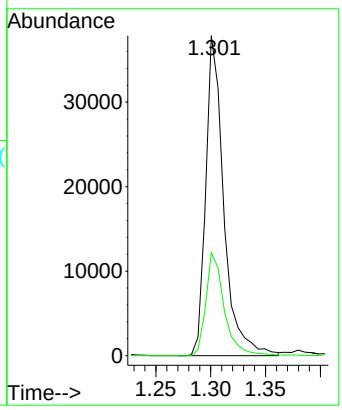




#3
Chloromethane
Concen: 19.754 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 50 Resp: 4327

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/25/2025
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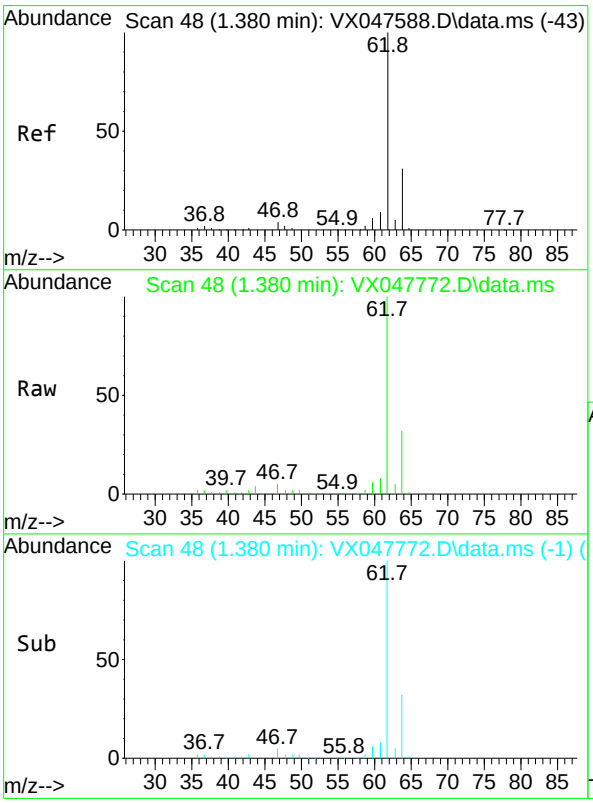
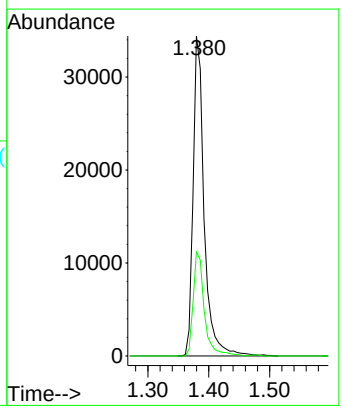
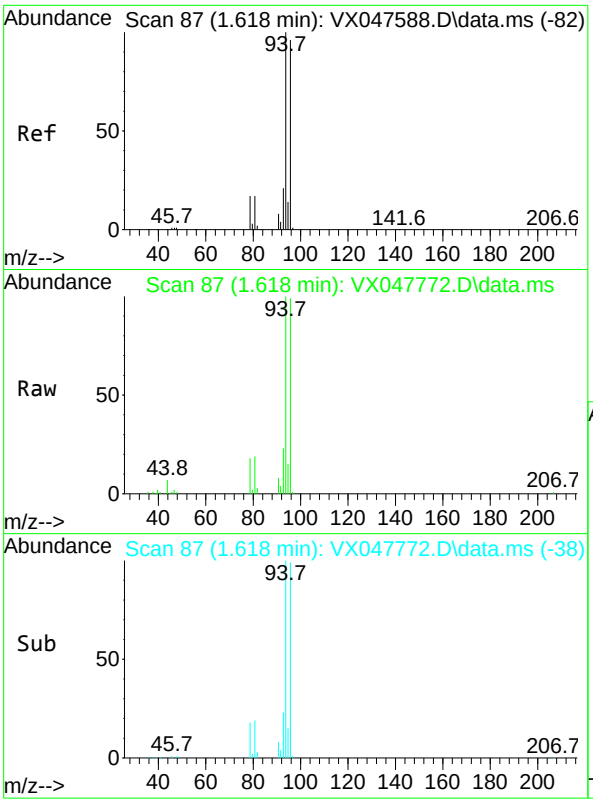


#4
Vinyl Chloride
Concen: 20.134 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 62 Resp: 43176

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.9	37.3

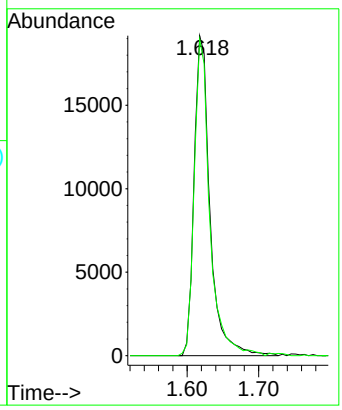




#5
Bromomethane
Concen: 21.735 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 94 Resp: 2955

Ion	Ratio	Lower	Upper
94	100		
96	98.9	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations
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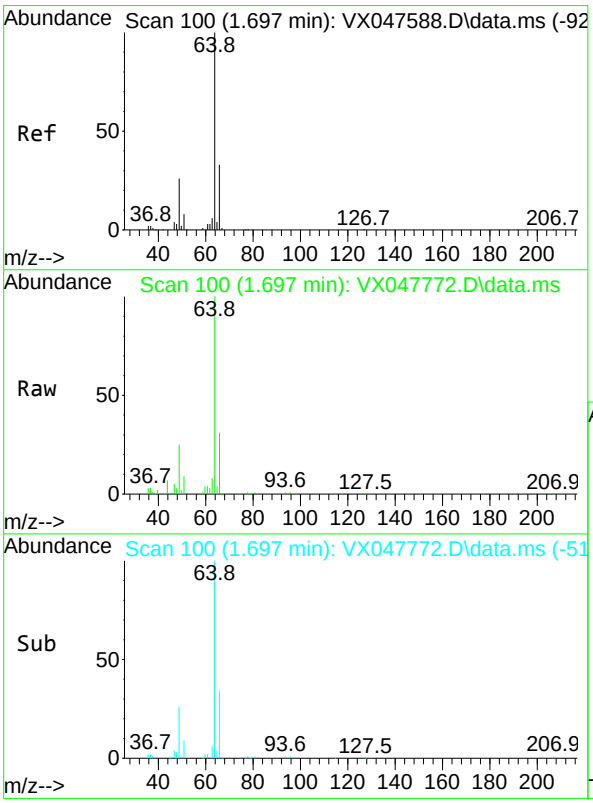
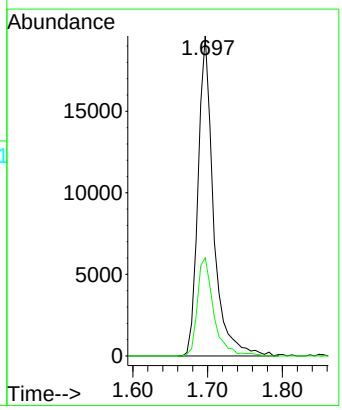
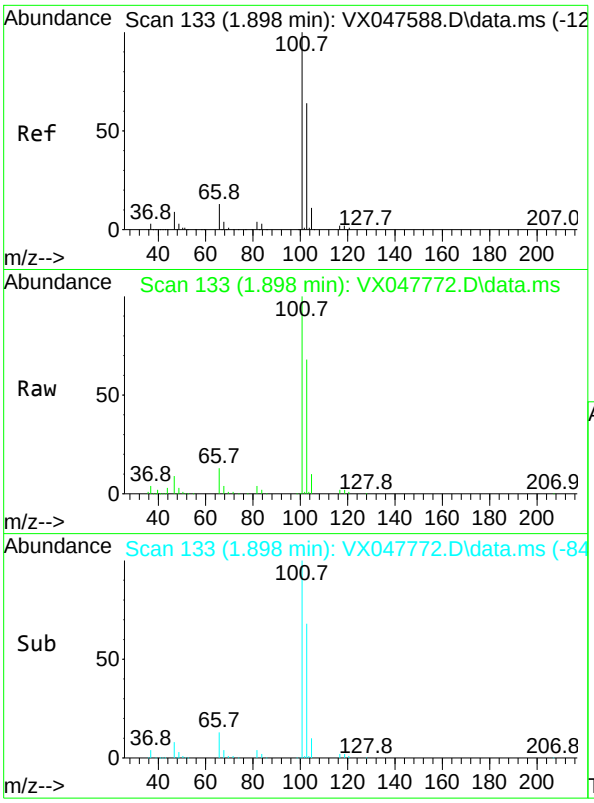


#6
Chloroethane
Concen: 19.661 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 64 Resp: 28179

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.1	39.1

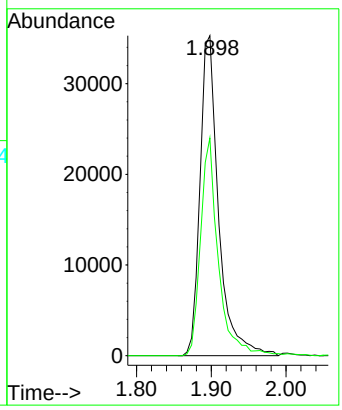




#7
Trichlorofluoromethane
Concen: 19.107 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:101 Resp: 6083

Ion	Ratio	Lower	Upper
101	100		
103	68.0	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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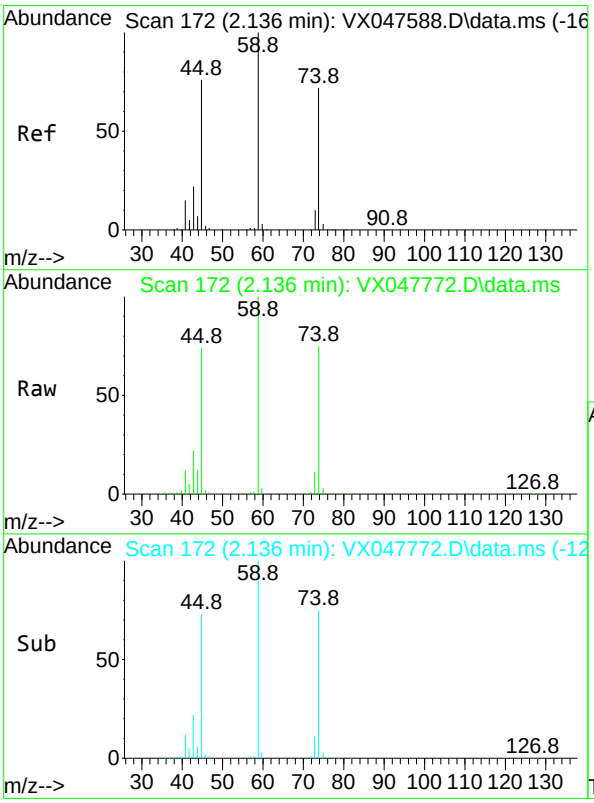
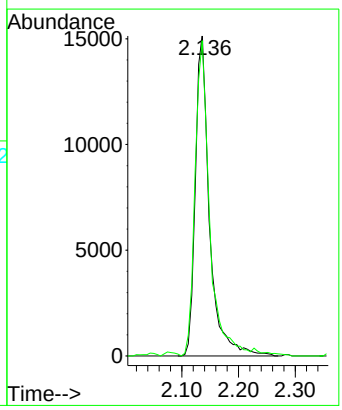
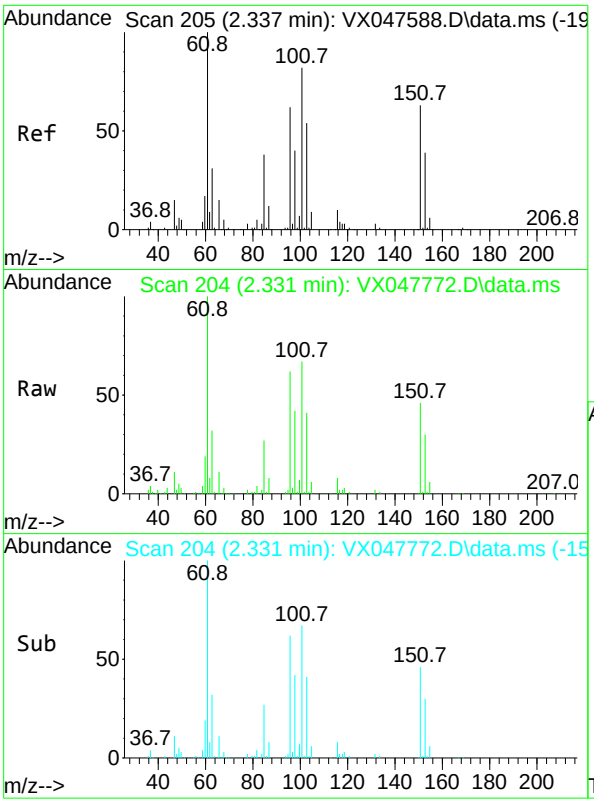


#8
Diethyl Ether
Concen: 20.125 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 74 Resp: 26212

Ion	Ratio	Lower	Upper
74	100		
45	101.5	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.879 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:101 Resp: 3701

Ion	Ratio	Lower	Upper
101	100		
85	42.6	35.5	53.3
151	73.0	59.4	89.0

Instrument :
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Manual Integrations
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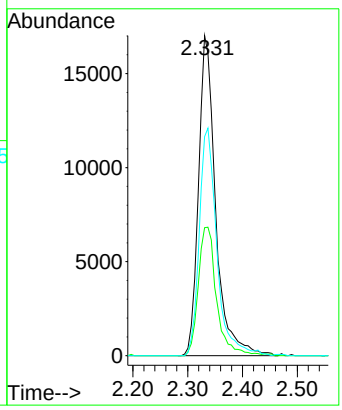
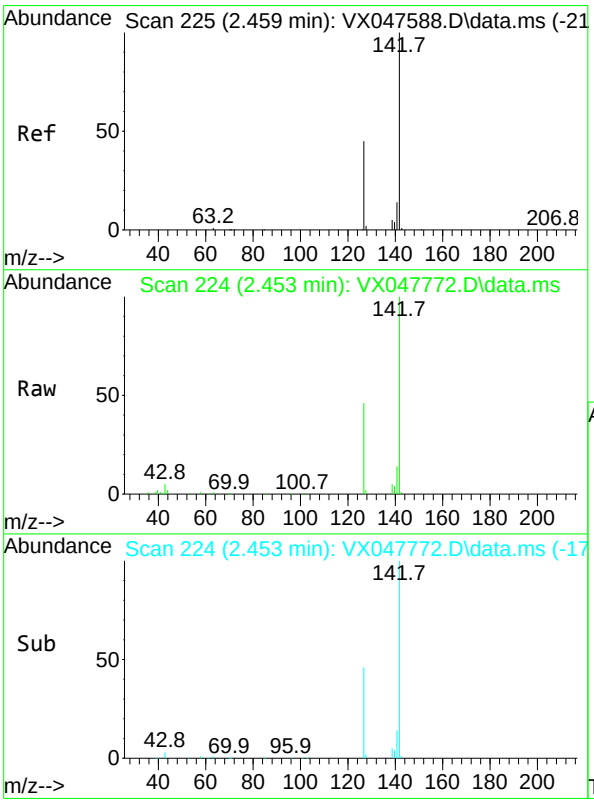
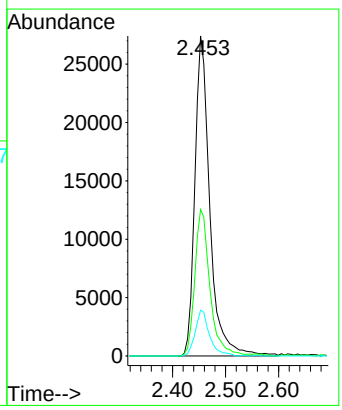


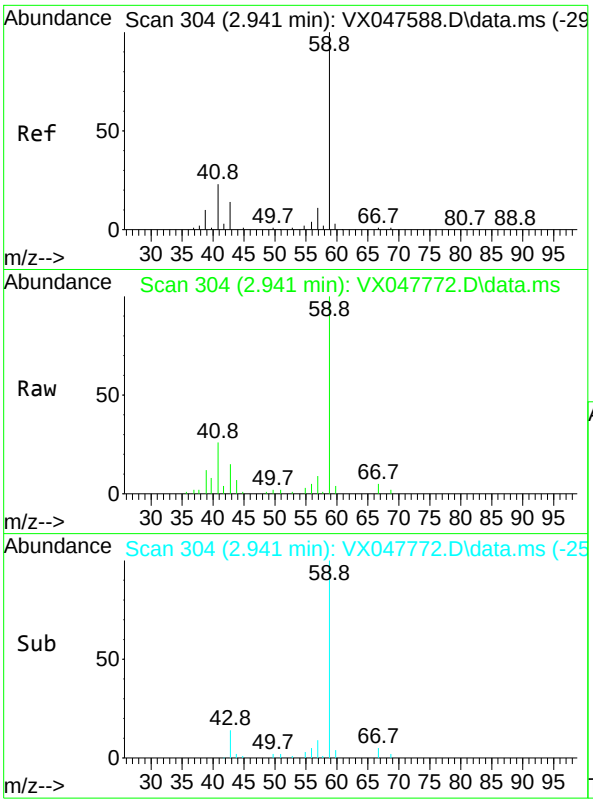


#10
Methyl Iodide
Concen: 18.498 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:142 Resp: 53711

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.2	55.8
141	13.7	11.4	17.0

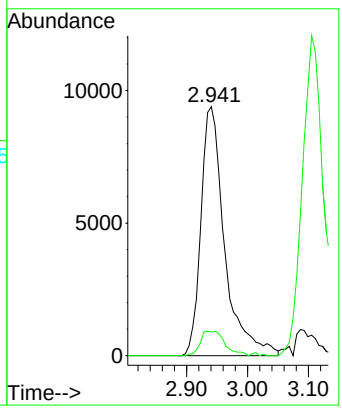




#11
Tert butyl alcohol
Concen: 89.081 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 59 Resp: 2542

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
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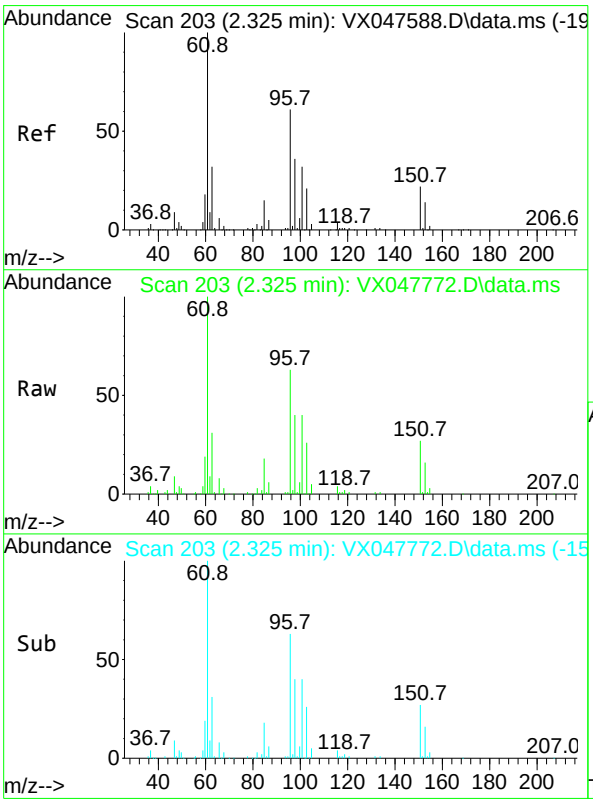
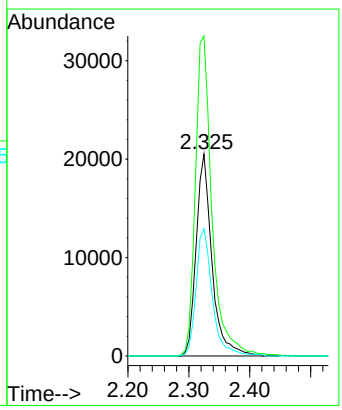
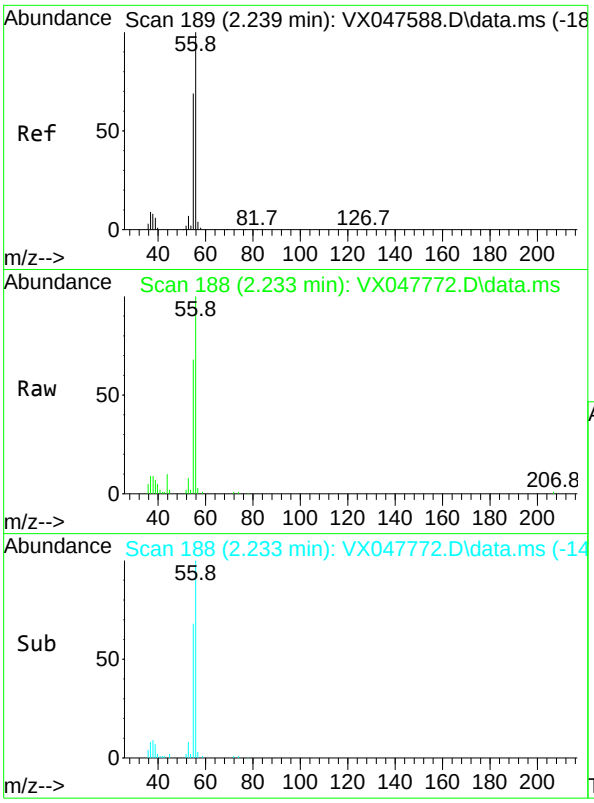


#12
1,1-Dichloroethene
Concen: 19.433 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 96 Resp: 37164

Ion	Ratio	Lower	Upper
96	100		
61	158.5	131.0	196.6
98	63.0	47.7	71.5

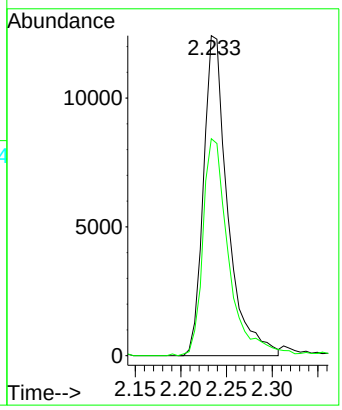




#13
Acrolein
Concen: 87.260 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 56 Resp: 2294

Ion	Ratio	Lower	Upper
56	100		
55	72.2	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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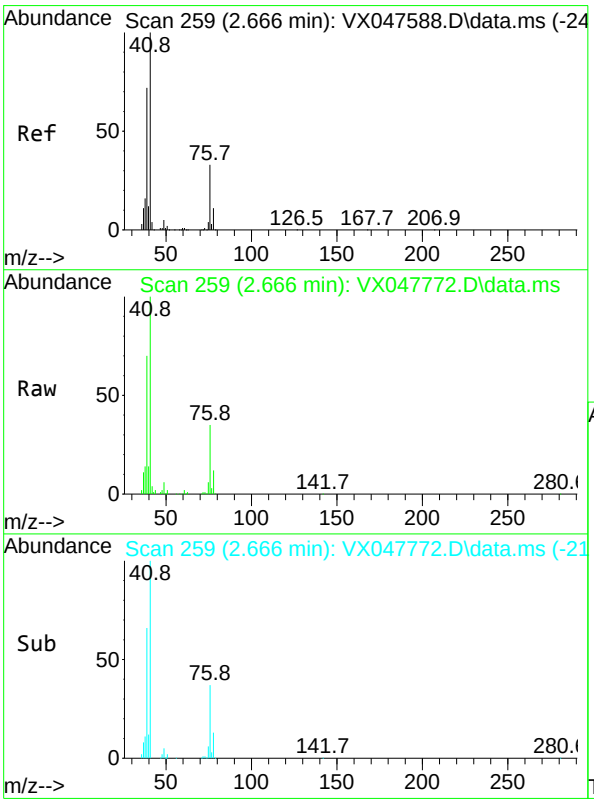
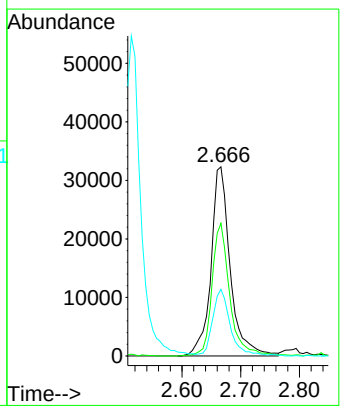
Supervised By :Mahesh Dadoda 09/26/2025

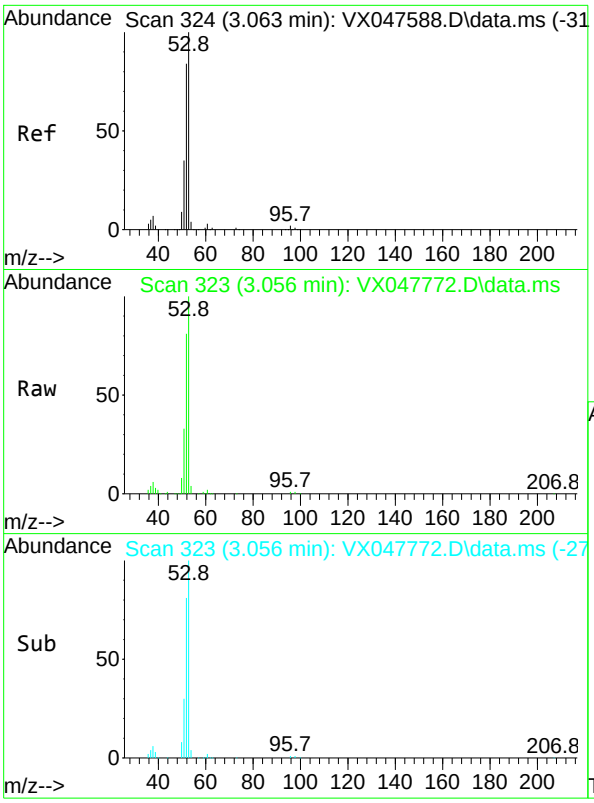


#14
Allyl chloride
Concen: 18.654 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 41 Resp: 73616

Ion	Ratio	Lower	Upper
41	100		
39	64.8	54.7	82.1
76	32.5	25.7	38.5

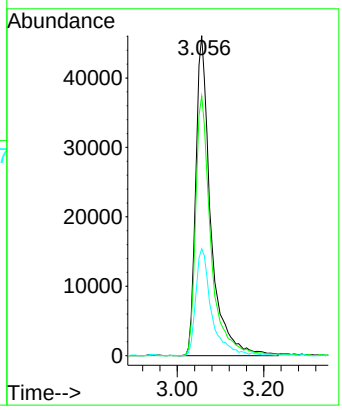




#15
Acrylonitrile
Concen: 104.829 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 53 Resp: 11080

Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.4	99.6
51	34.9	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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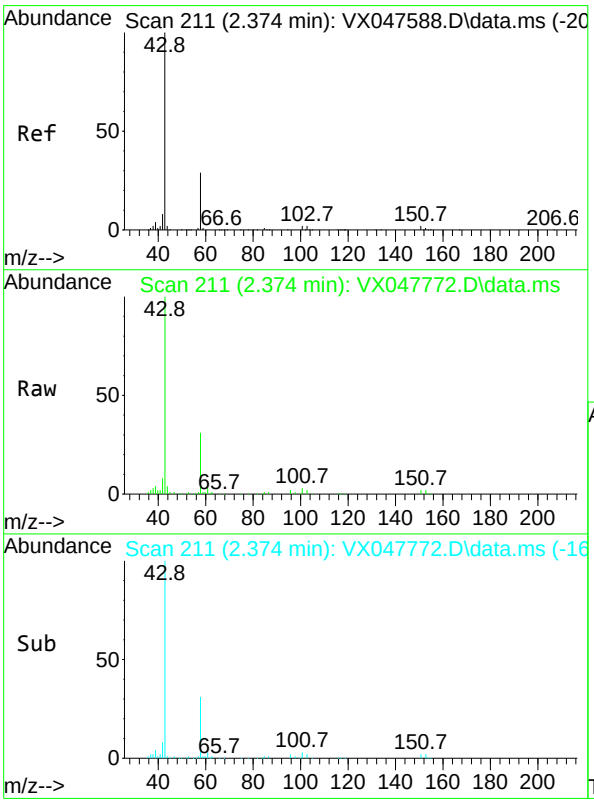
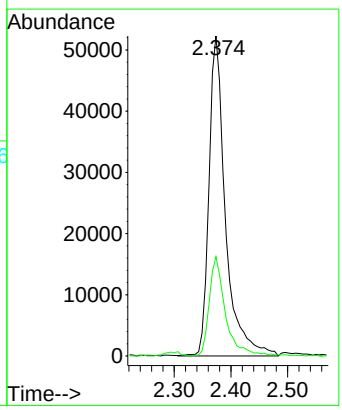
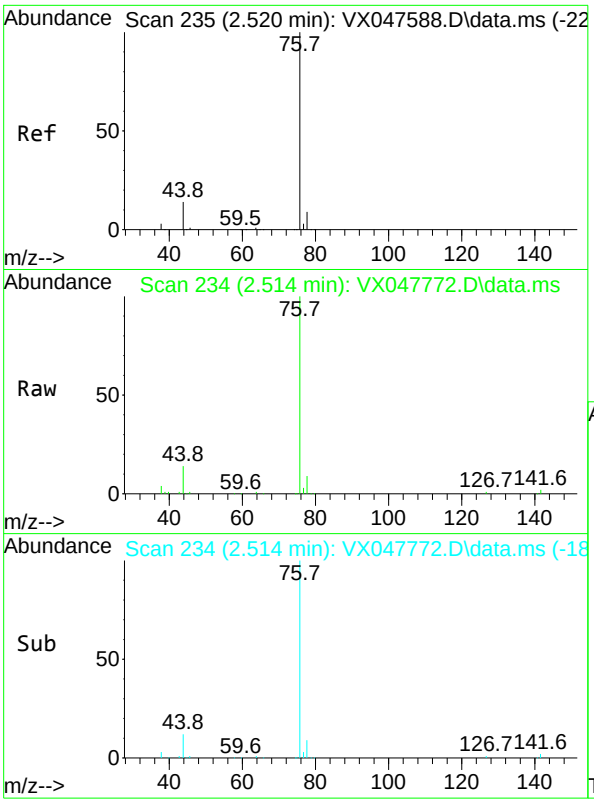


#16
Acetone
Concen: 94.499 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 105276

Ion	Ratio	Lower	Upper
43	100		
58	30.7	23.4	35.0

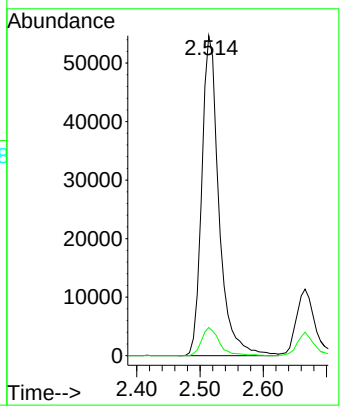




#17
Carbon Disulfide
Concen: 19.765 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 76 Resp: 10347

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2



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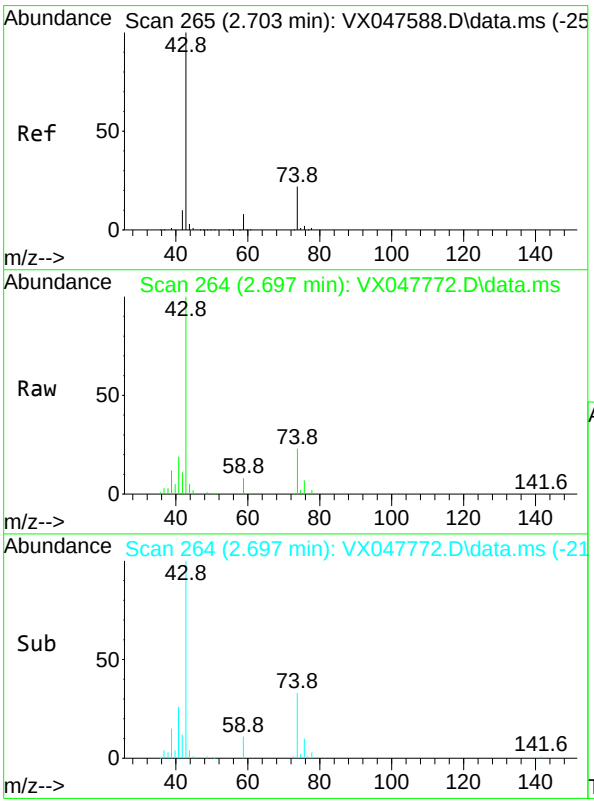
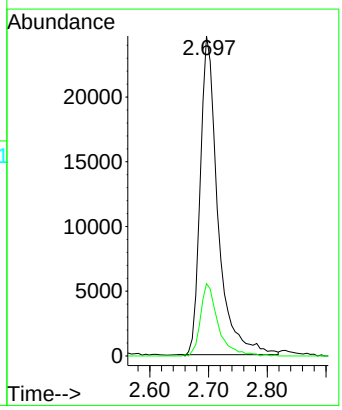
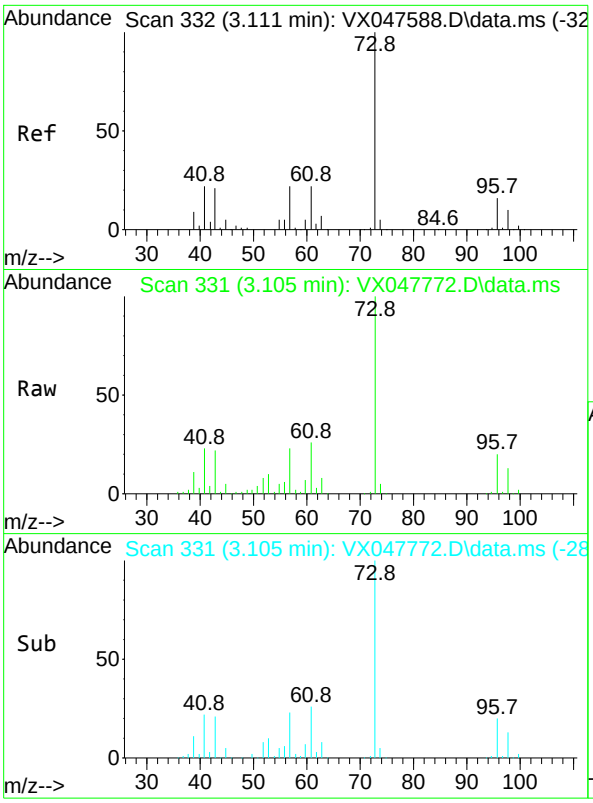


#18
Methyl Acetate
Concen: 20.657 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 51214

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.4	26.2

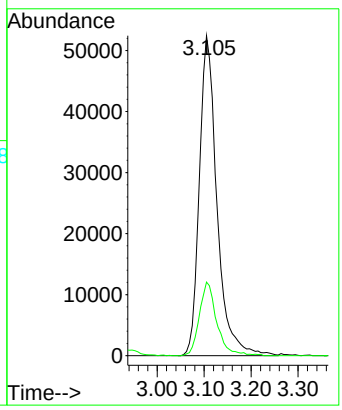




#19
Methyl tert-butyl Ether
Concen: 19.568 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 73 Resp: 13660

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
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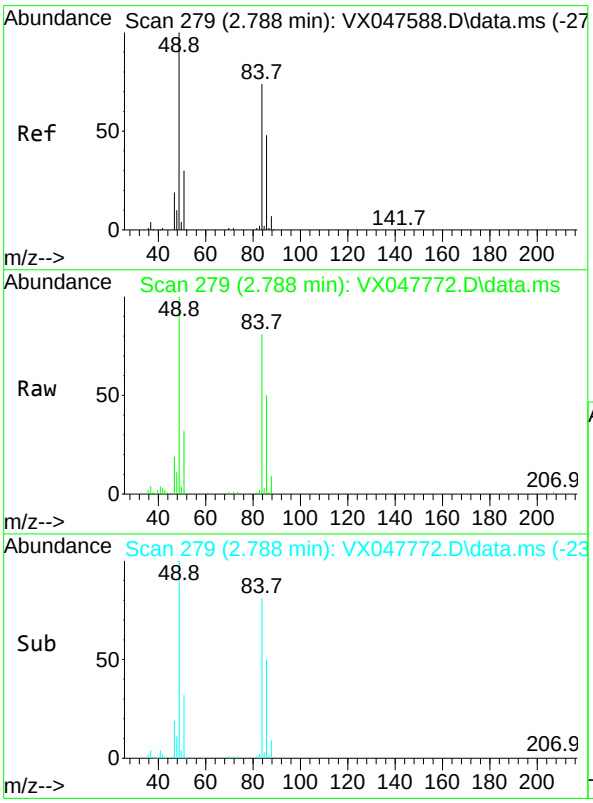
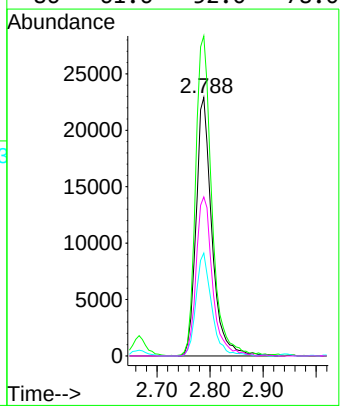
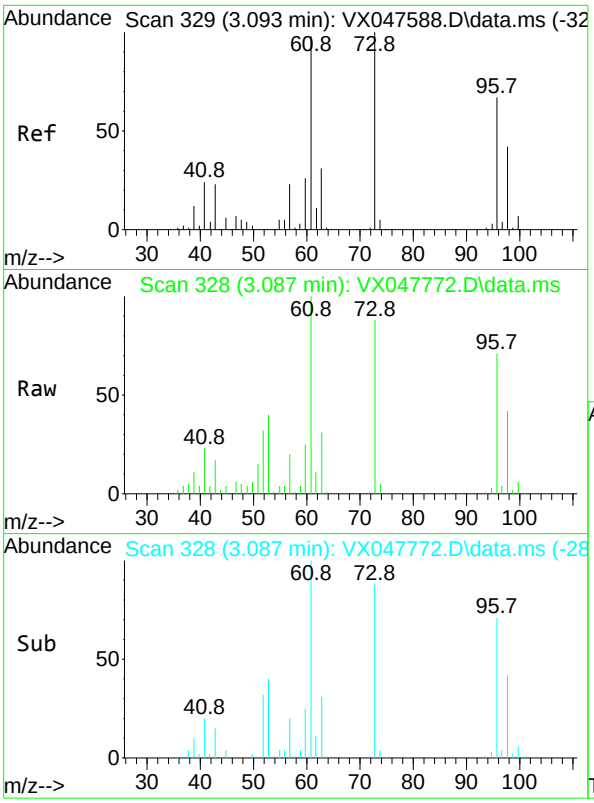


#20
Methylene Chloride
Concen: 20.068 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 84 Resp: 47324

Ion	Ratio	Lower	Upper
84	100		
49	123.6	108.6	162.8
51	39.8	32.6	48.8
86	61.6	52.0	78.0

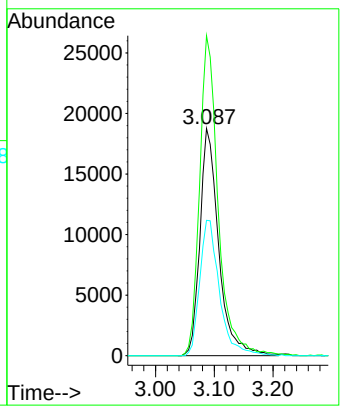




#21
trans-1,2-Dichloroethene
Concen: 20.276 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 96 Resp: 4174

Ion	Ratio	Lower	Upper
96	100		
61	134.2	116.2	174.2
98	56.8	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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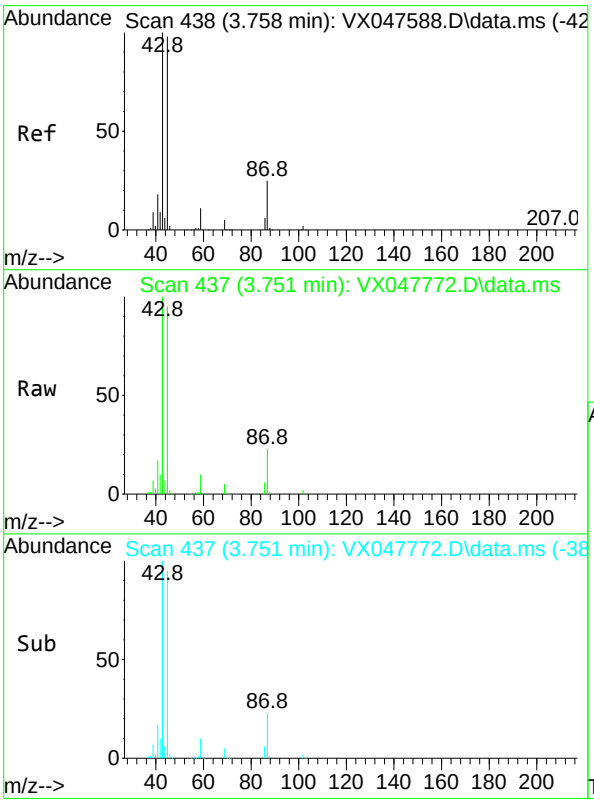
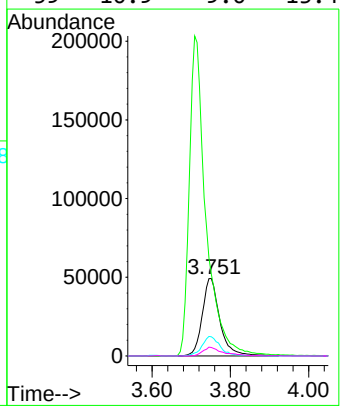
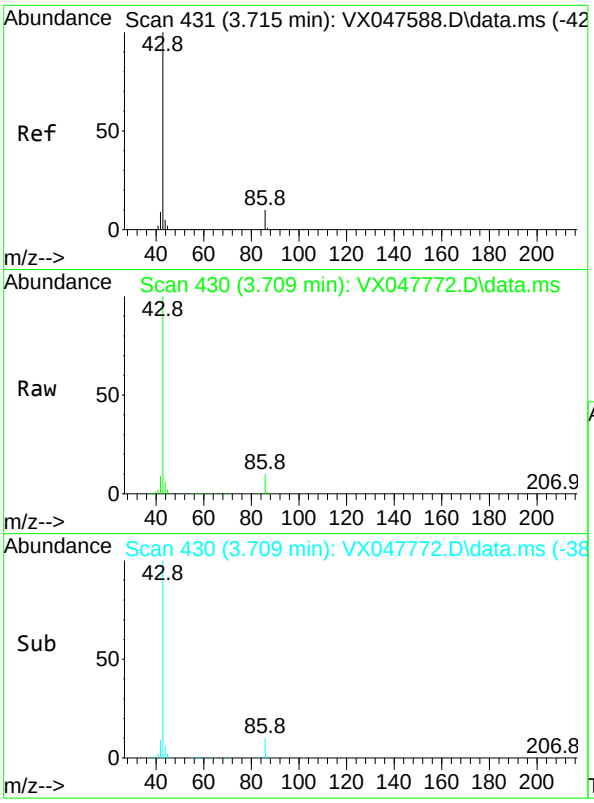


#22
Diisopropyl ether
Concen: 20.023 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 45 Resp: 153137

Ion	Ratio	Lower	Upper
45	100		
43	103.9	81.0	121.4
87	24.8	20.3	30.5
59	10.9	9.0	13.4

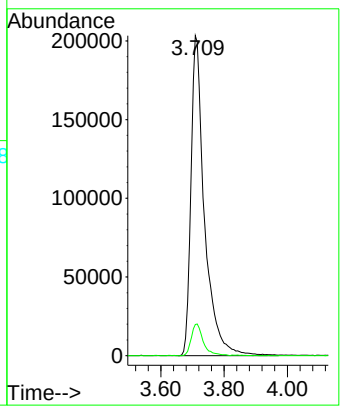




#23
Vinyl Acetate
Concen: 98.825 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 60492

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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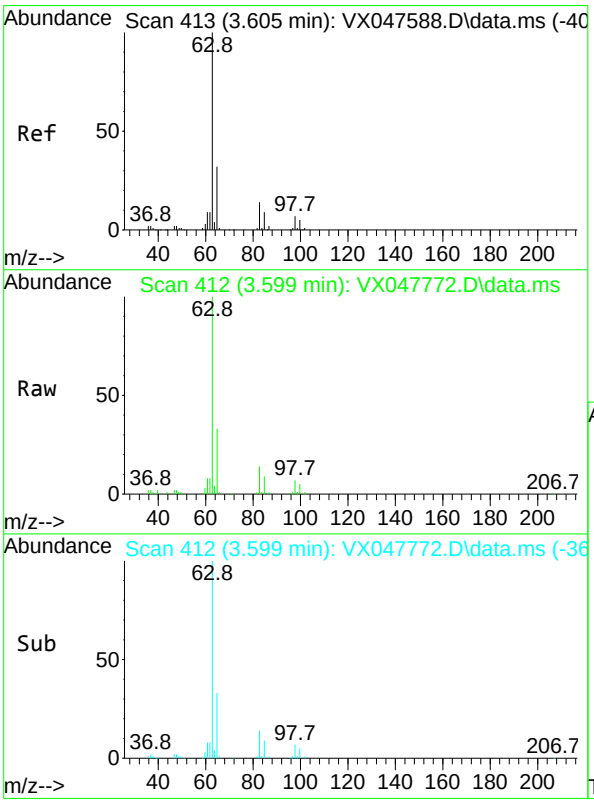
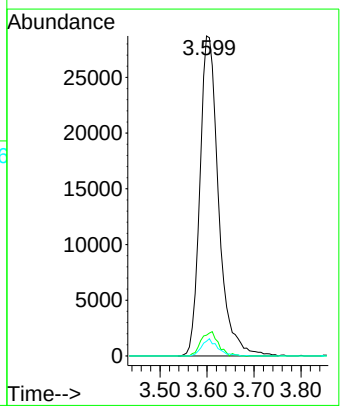
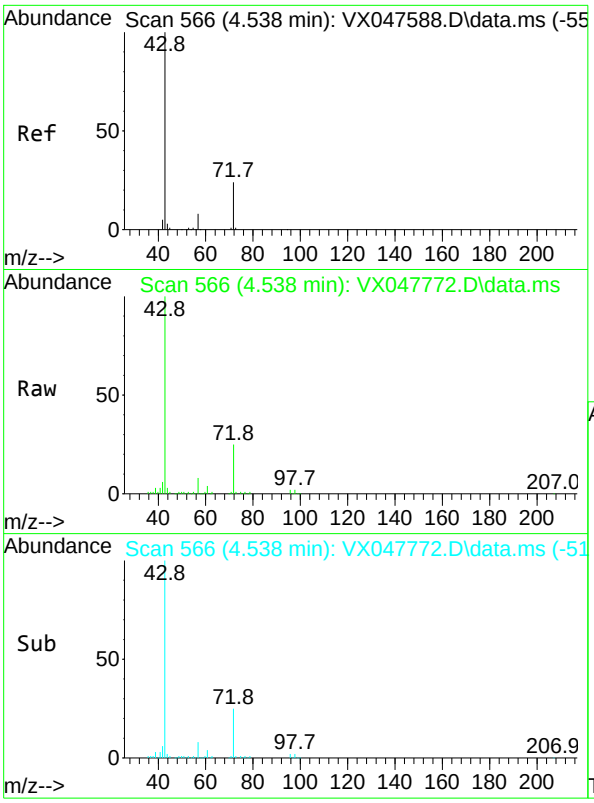


#24
1,1-Dichloroethane
Concen: 19.508 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 63 Resp: 79300

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.8	11.2
100	4.6	2.3	6.9

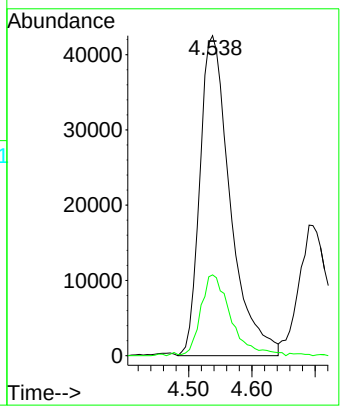




#25
2-Butanone
Concen: 102.090 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 14186

Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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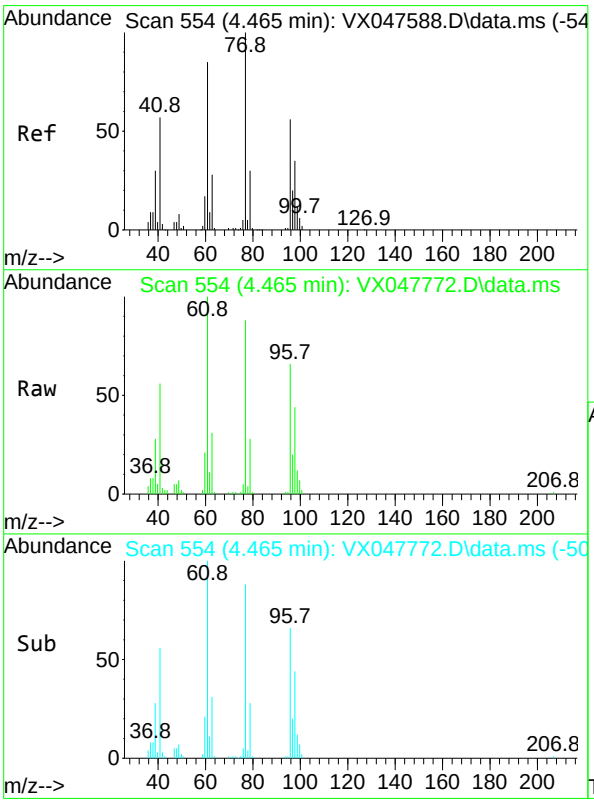
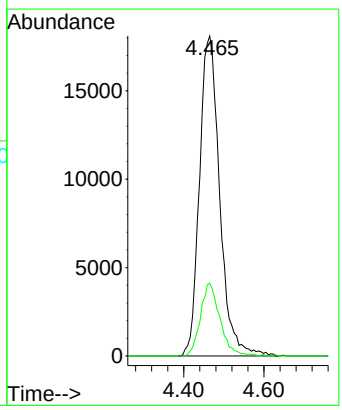
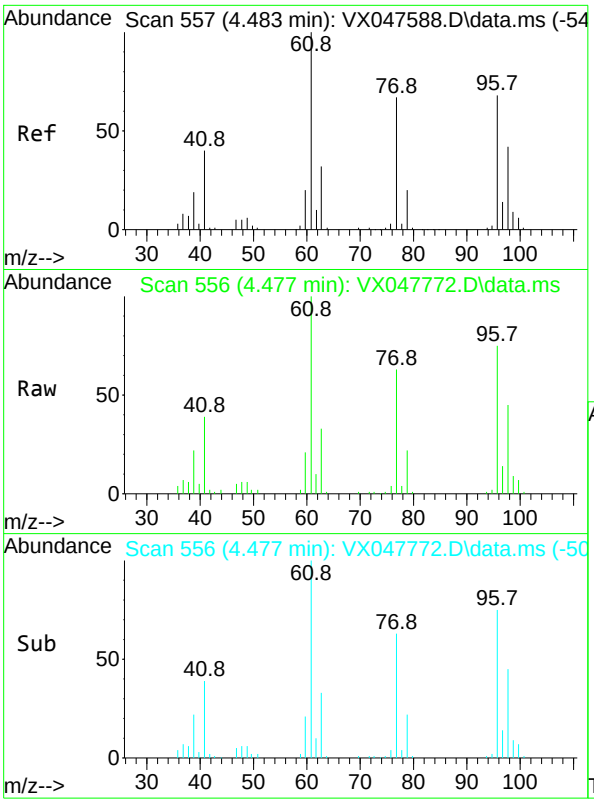


#26
2,2-Dichloropropane
Concen: 18.761 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 77 Resp: 63397

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.9	32.7

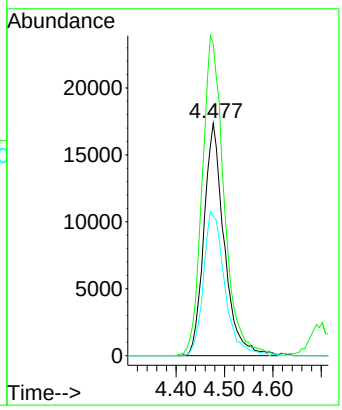




#27
cis-1,2-Dichloroethene
Concen: 20.004 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 96 Resp: 5044

Ion	Ratio	Lower	Upper
96	100		
61	148.8	0.0	303.2
98	65.3	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
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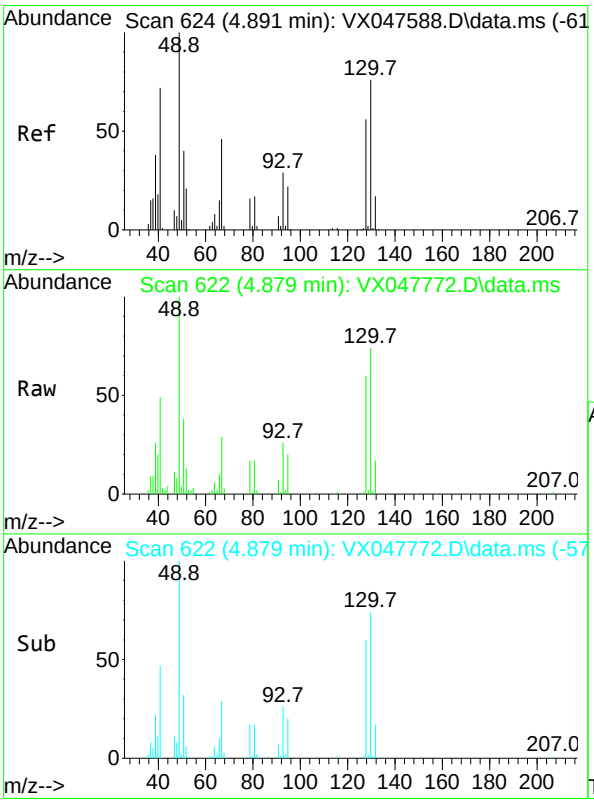
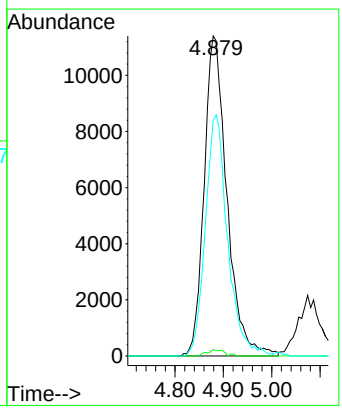
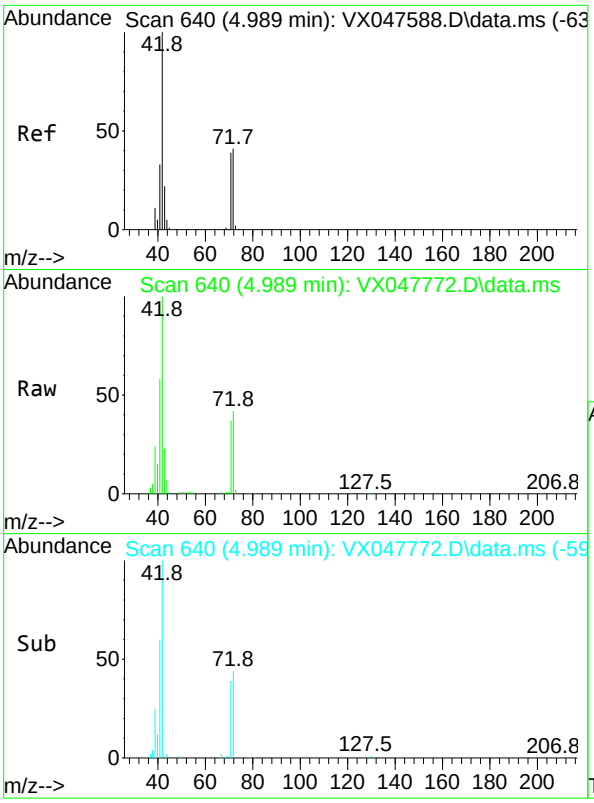


#28
Bromochloromethane
Concen: 20.987 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 49 Resp: 37245

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.2
130	73.7	57.8	86.8

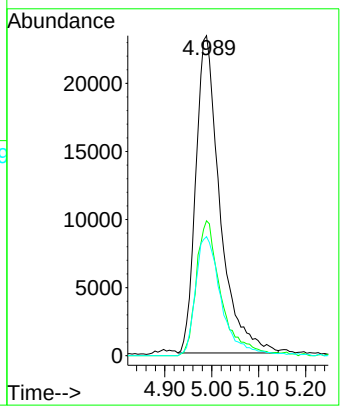




#29
Tetrahydrofuran
Concen: 99.518 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 42 Resp: 8319

Ion	Ratio	Lower	Upper
42	100		
72	43.6	34.2	51.2
71	40.3	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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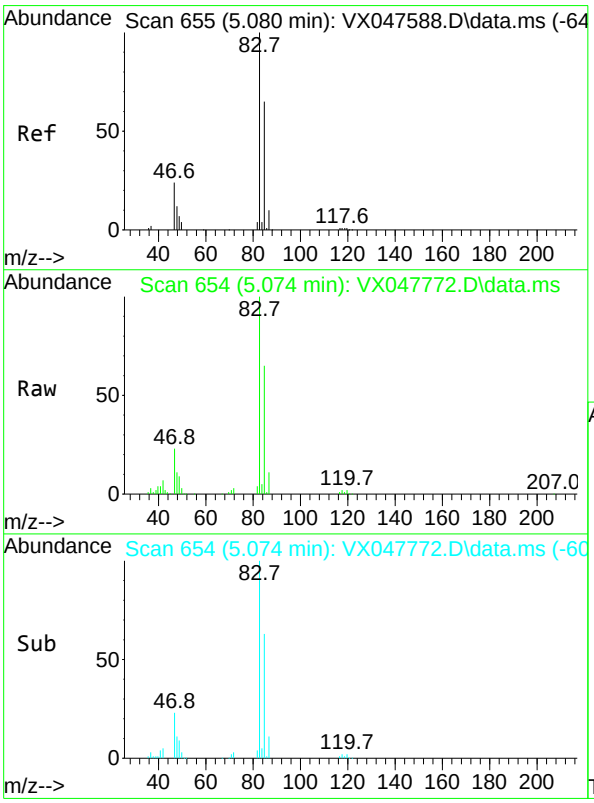
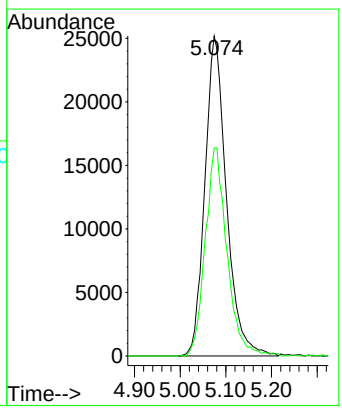
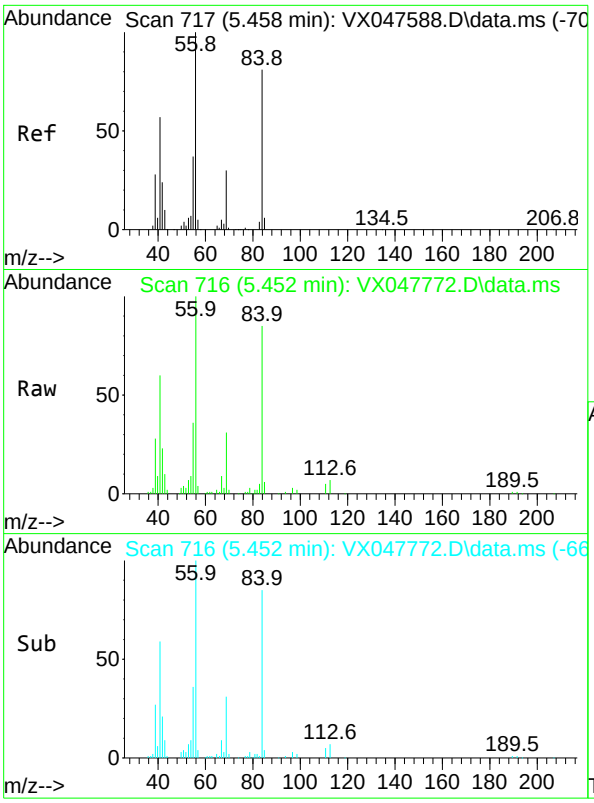


#30
Chloroform
Concen: 20.050 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 83 Resp: 82364

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.8	77.6

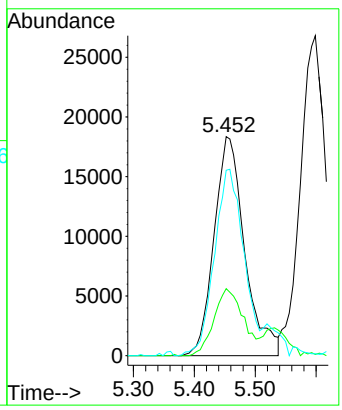




#31
Cyclohexane
Concen: 18.919 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 56 Resp: 6405

Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.8	35.8
84	84.7	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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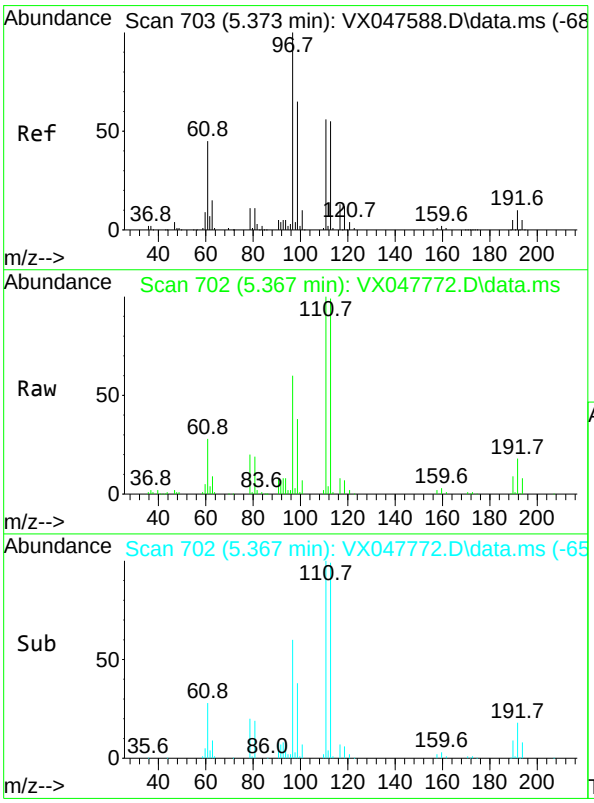
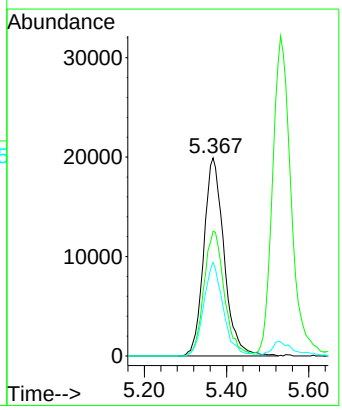
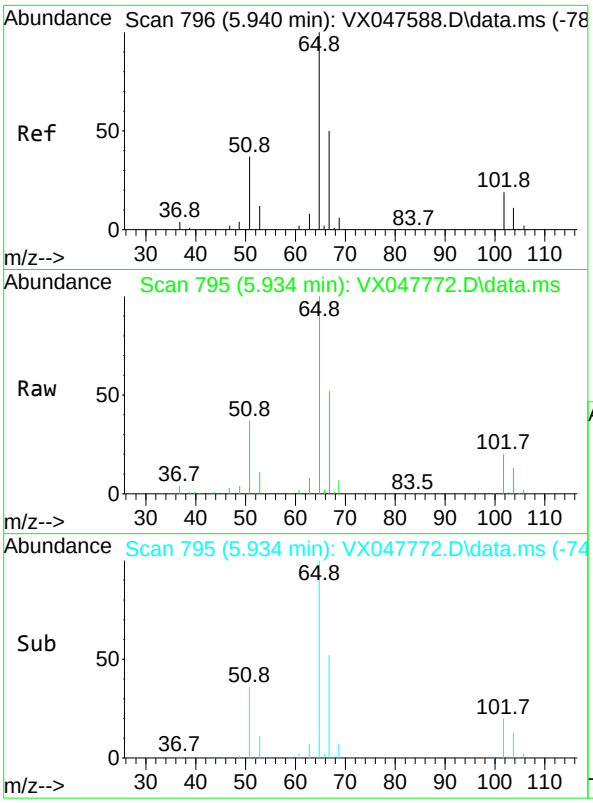


#32
1,1,1-Trichloroethane
Concen: 19.567 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 97 Resp: 68180

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.6	76.0
61	45.5	35.8	53.8

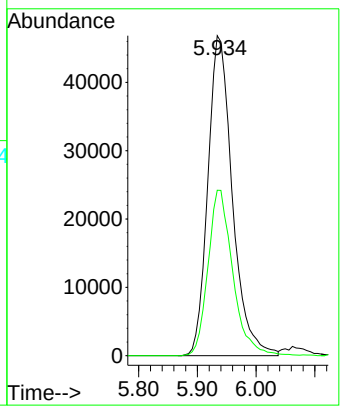




#33
1,2-Dichloroethane-d4
Concen: 52.955 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 65 Resp: 13567

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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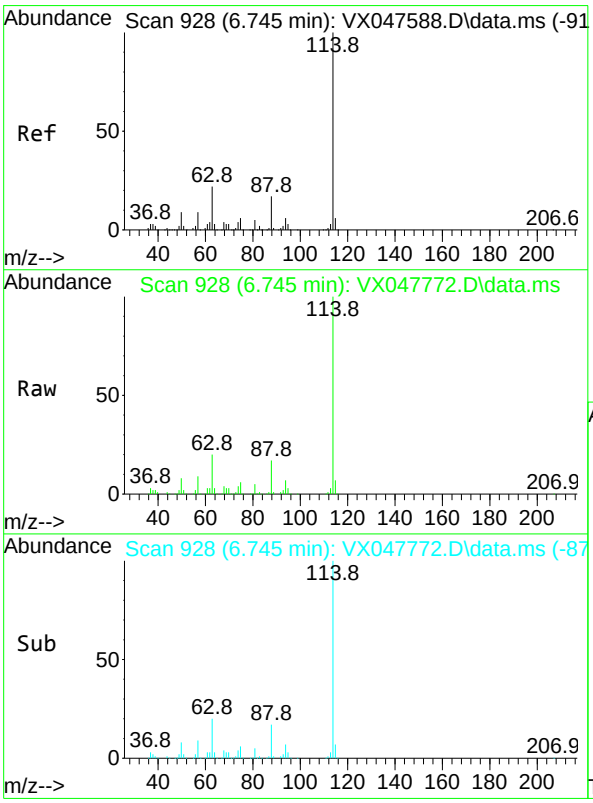
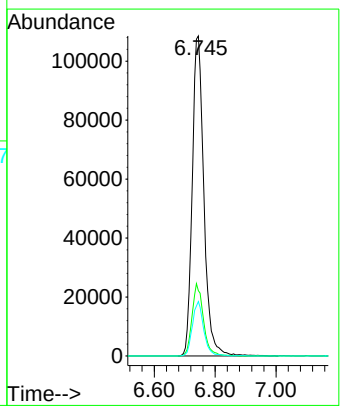
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

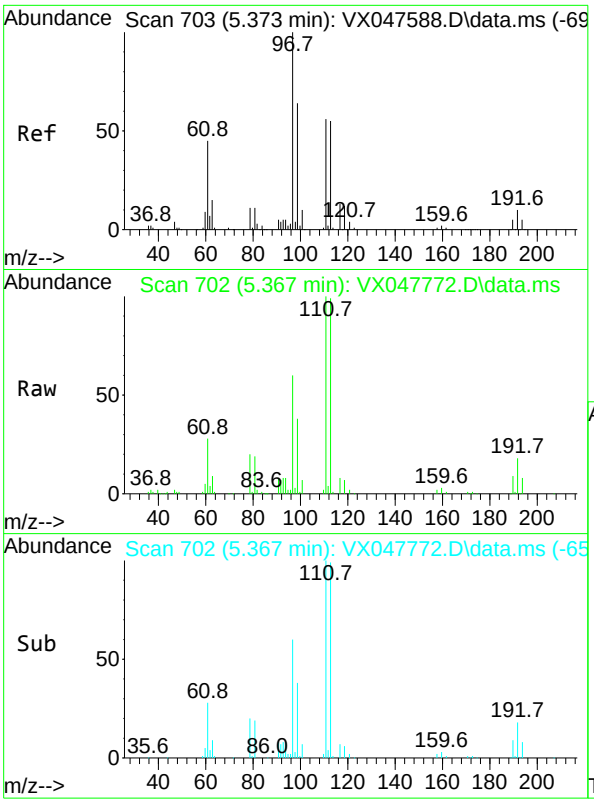


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:114 Resp: 287921

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	44.0
88	17.0	0.0	34.2

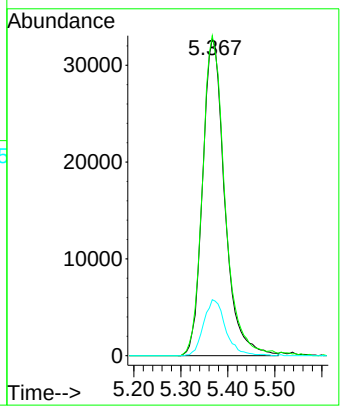




#35
Dibromofluoromethane
Concen: 55.420 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:113 Resp: 10701

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	17.7	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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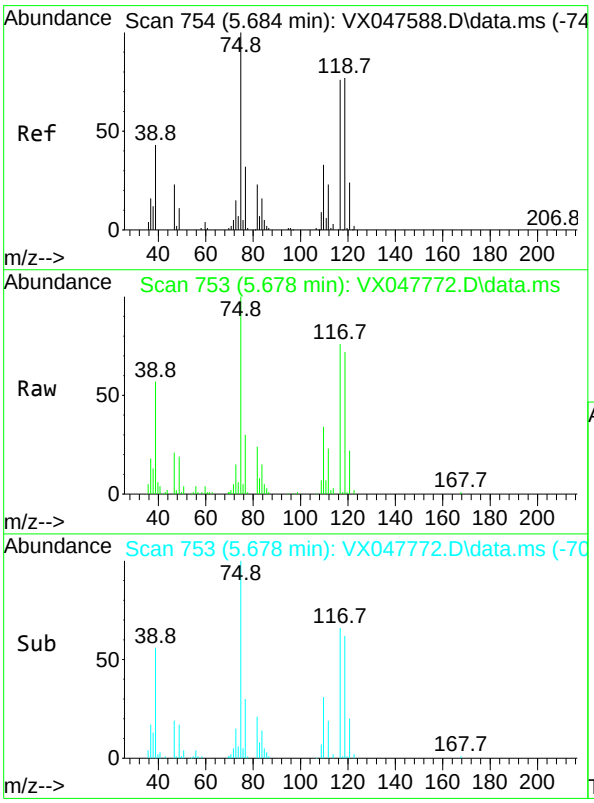
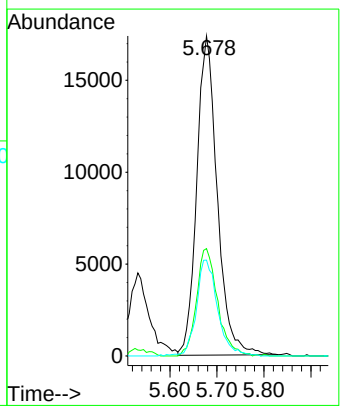
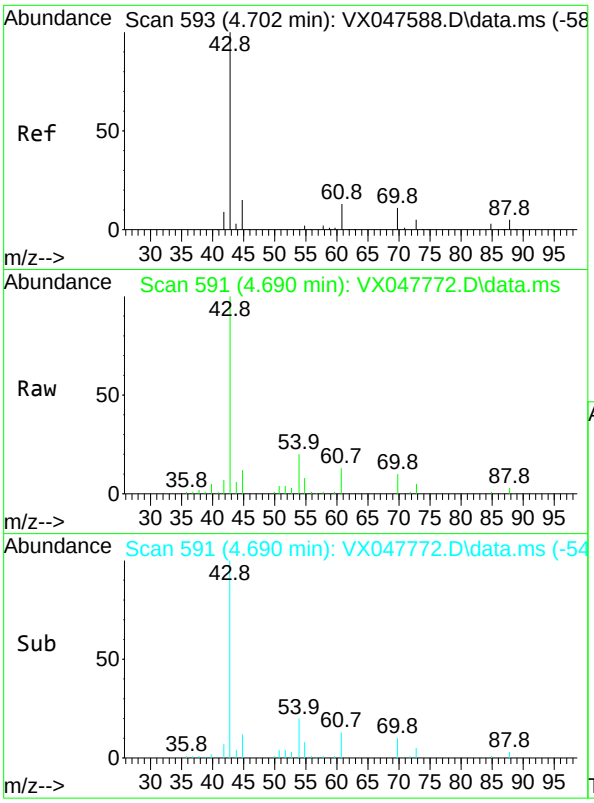


#36
1,1-Dichloropropene
Concen: 18.651 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 52624

Ion	Ratio	Lower	Upper
75	100		
110	34.7	16.7	50.1
77	31.2	24.3	36.5





#37
Ethyl Acetate
Concen: 19.656 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 5938

Ion	Ratio	Lower	Upper
43	100		
61	10.9	9.8	14.8
70	9.8	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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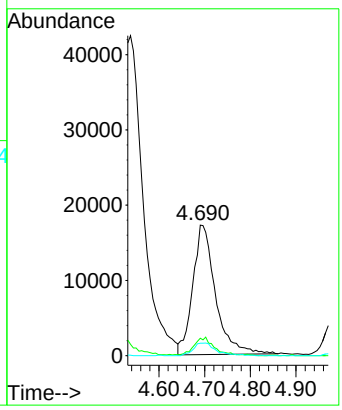
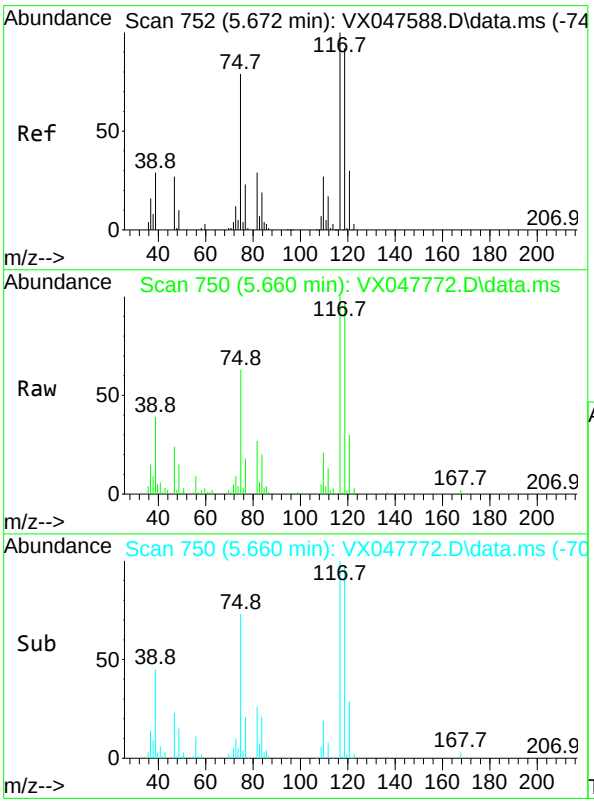
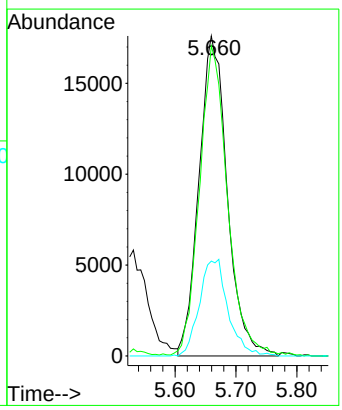


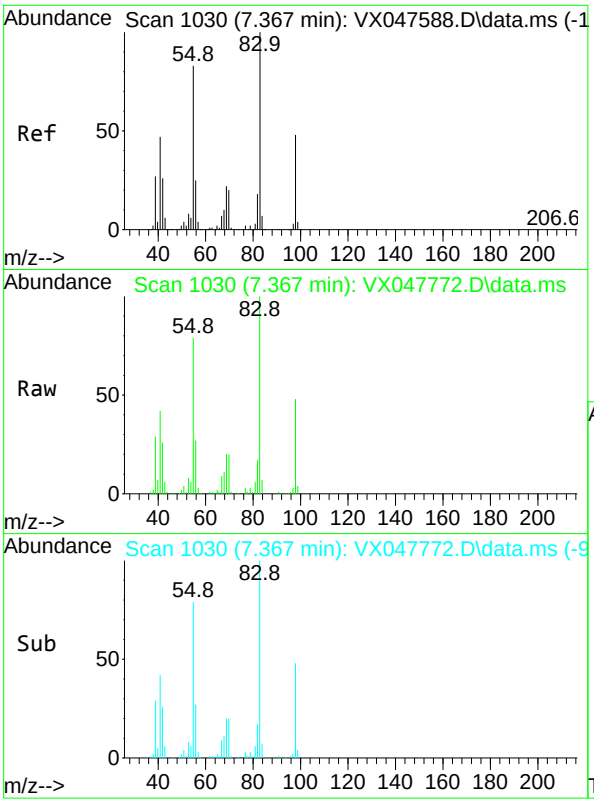


#38
Carbon Tetrachloride
Concen: 18.518 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:117 Resp: 56770

Ion	Ratio	Lower	Upper
117	100		
119	96.2	73.4	110.2
121	29.7	23.8	35.6

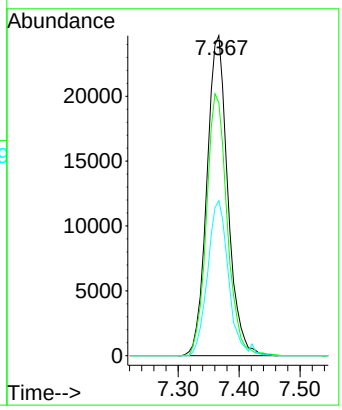




#39
Methylcyclohexane
Concen: 18.369 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 83 Resp: 5883

Ion	Ratio	Lower	Upper
83	100		
55	79.0	66.4	99.6
98	48.5	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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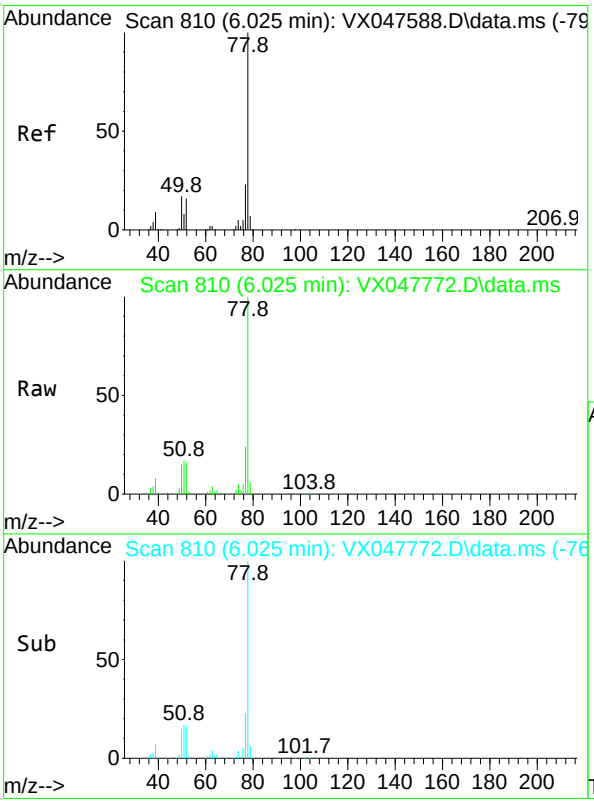
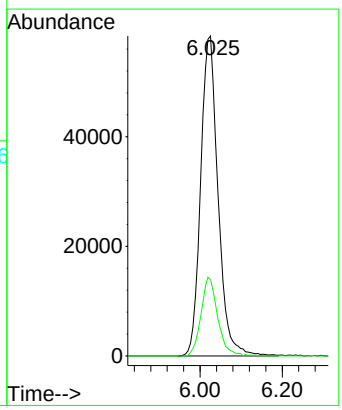
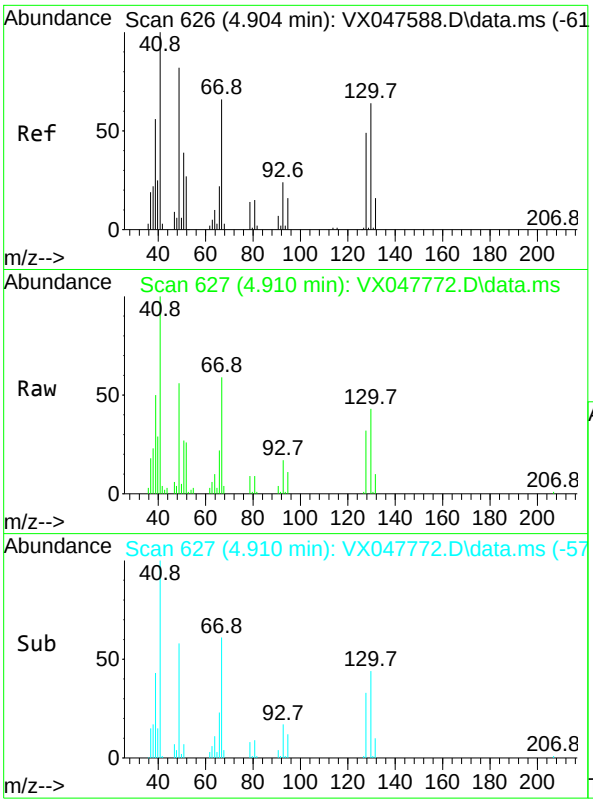


#40
Benzene
Concen: 19.980 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 78 Resp: 171230

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2

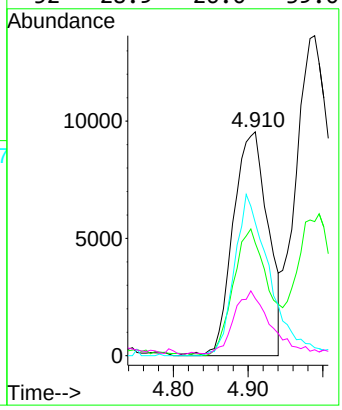




#41
Methacrylonitrile
Concen: 19.781 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 41 Resp: 3085

Ion	Ratio	Lower	Upper
41	100		
39	57.3	43.3	64.9
67	74.5	58.6	87.8
52	28.9	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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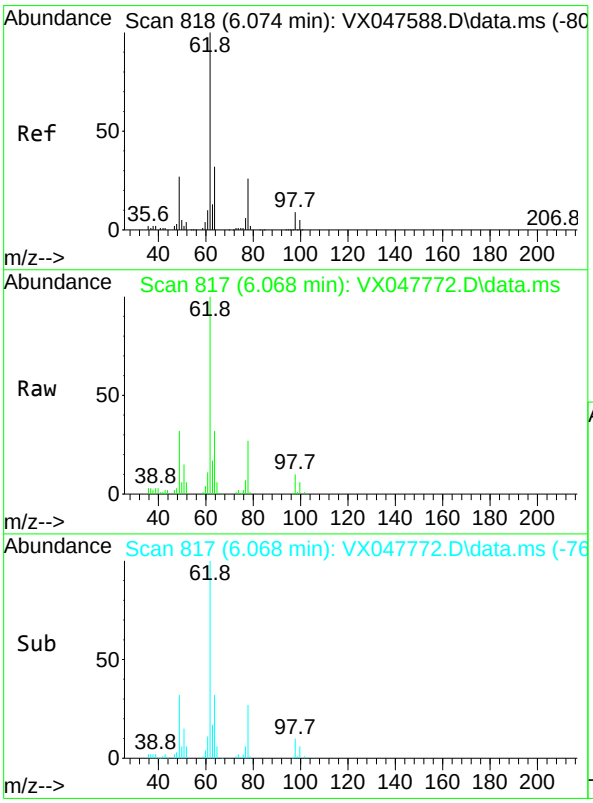
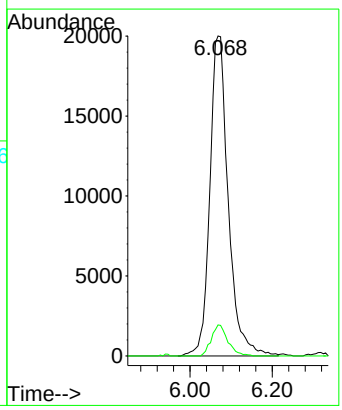
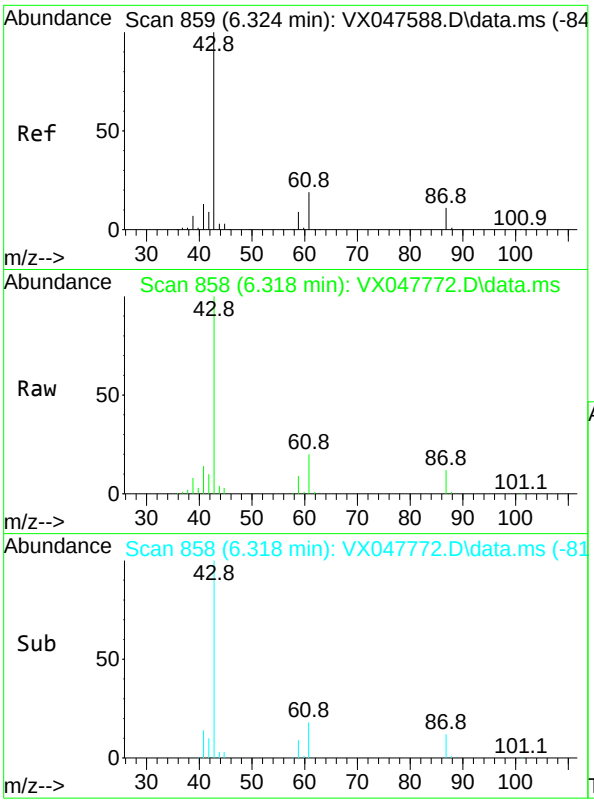


#42
1,2-Dichloroethane
Concen: 19.081 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 62 Resp: 62217

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

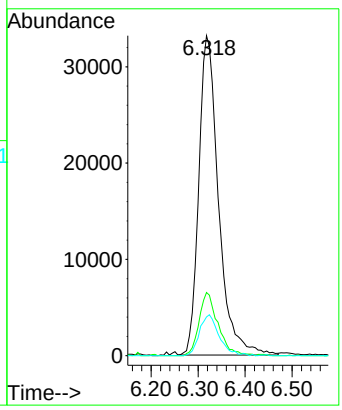




#43
Isopropyl Acetate
Concen: 19.553 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 9688

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.8	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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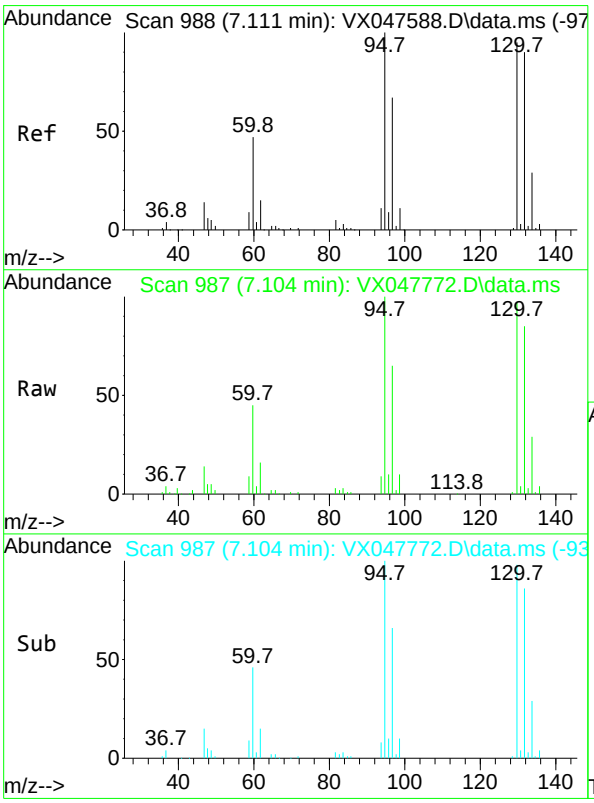
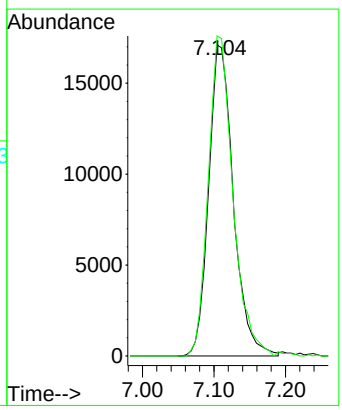
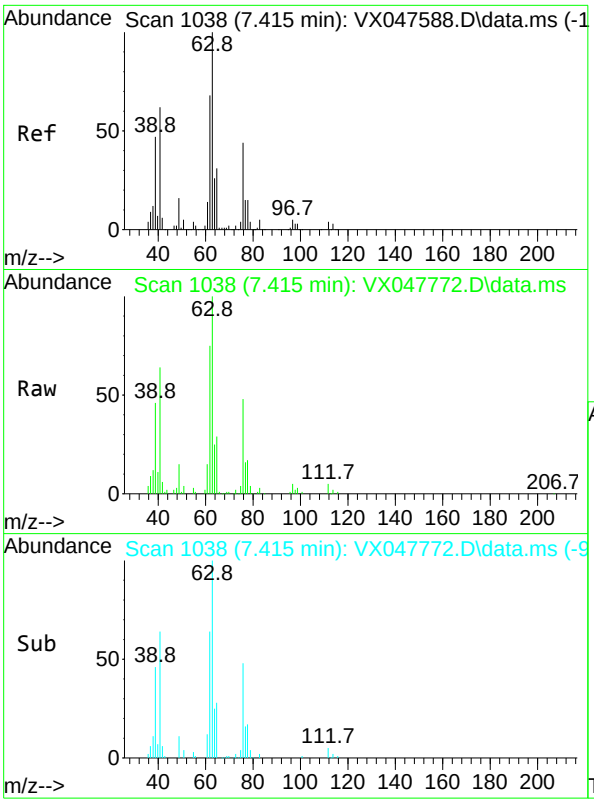


#44
Trichloroethene
Concen: 19.790 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:130 Resp: 41002

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	210.8

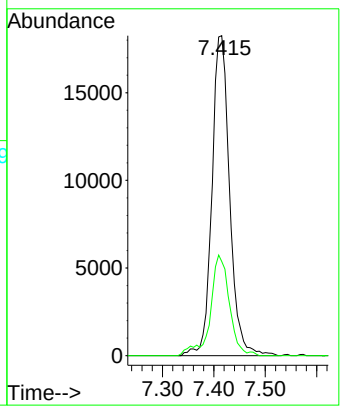




#45
1,2-Dichloropropane
Concen: 19.919 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 63 Resp: 4371

Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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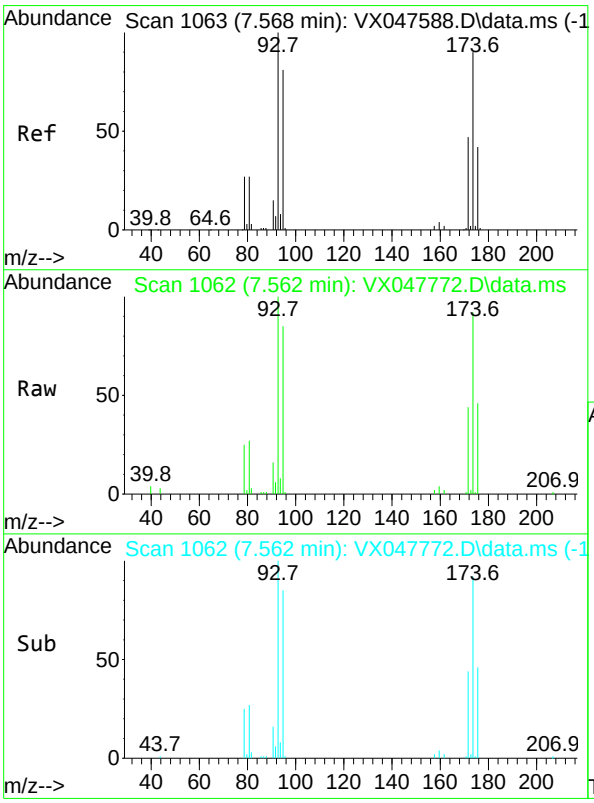
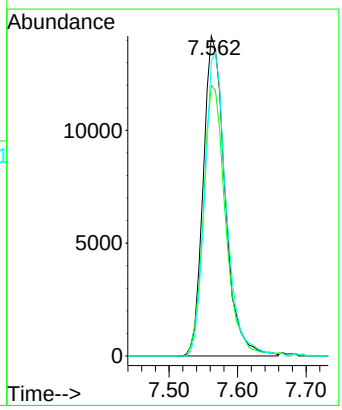
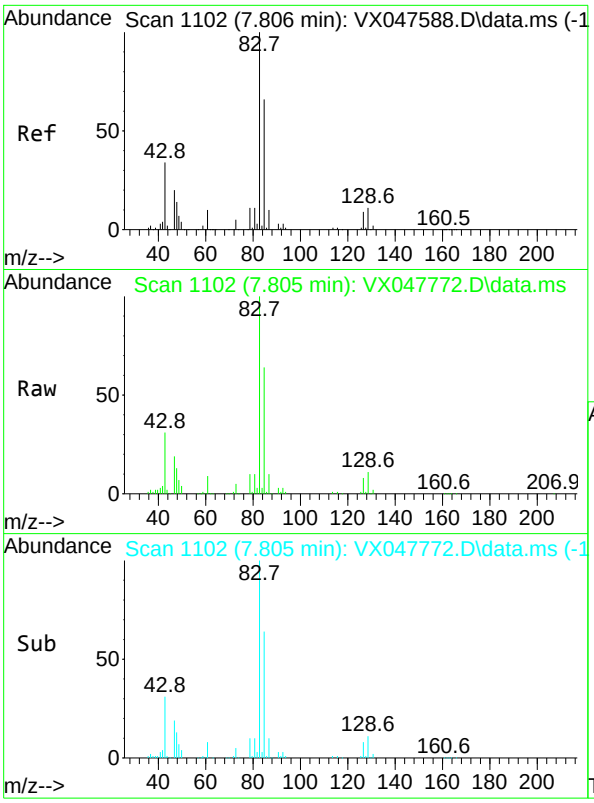


#46
Dibromomethane
Concen: 19.654 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 93 Resp: 31385

Ion	Ratio	Lower	Upper
93	100		
95	86.3	65.0	97.6
174	93.9	71.6	107.4

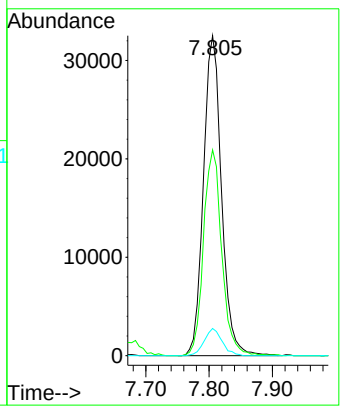




#47
Bromodichloromethane
Concen: 19.641 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 83 Resp: 6472

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7
127	8.5	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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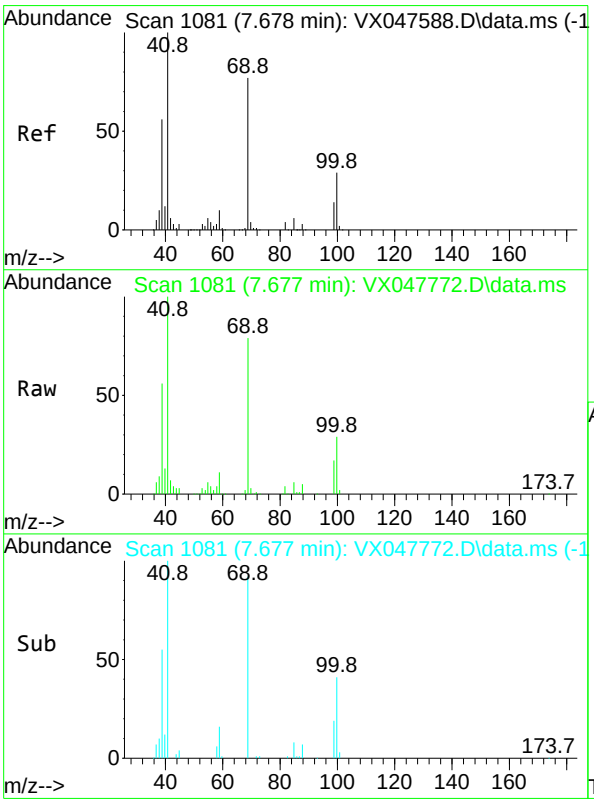
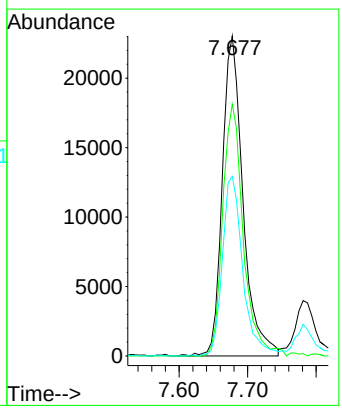
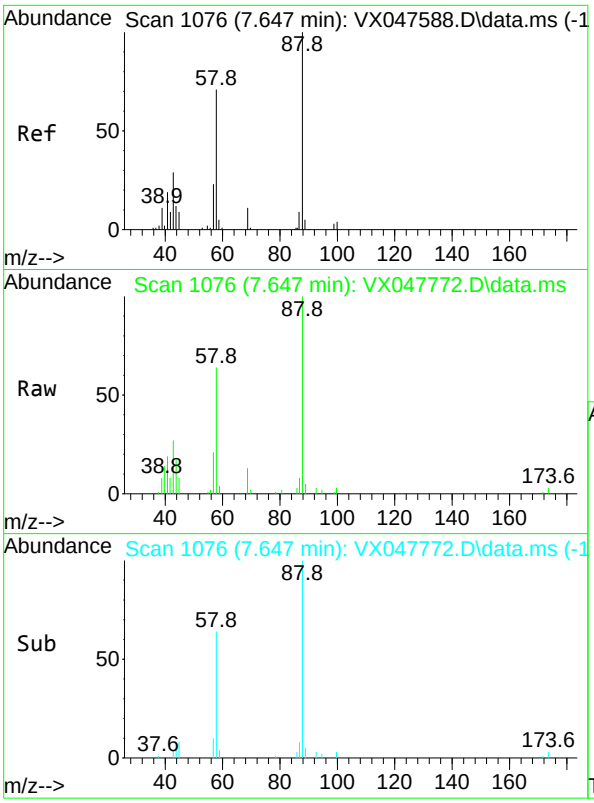


#48
Methyl methacrylate
Concen: 19.530 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 41 Resp: 48200

Ion	Ratio	Lower	Upper
41	100		
69	78.1	61.4	92.2
39	55.4	45.8	68.6





#49
1,4-Dioxane
Concen: 470.527 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 88 Resp: 1173

Ion	Ratio	Lower	Upper
88	100		
43	42.4	30.2	45.2
58	74.2	59.5	89.3

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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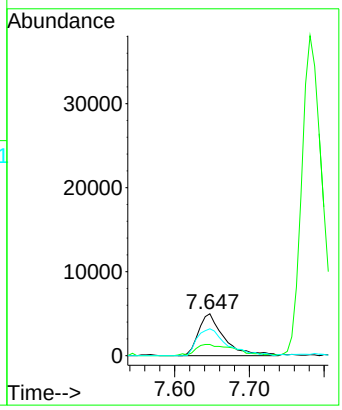
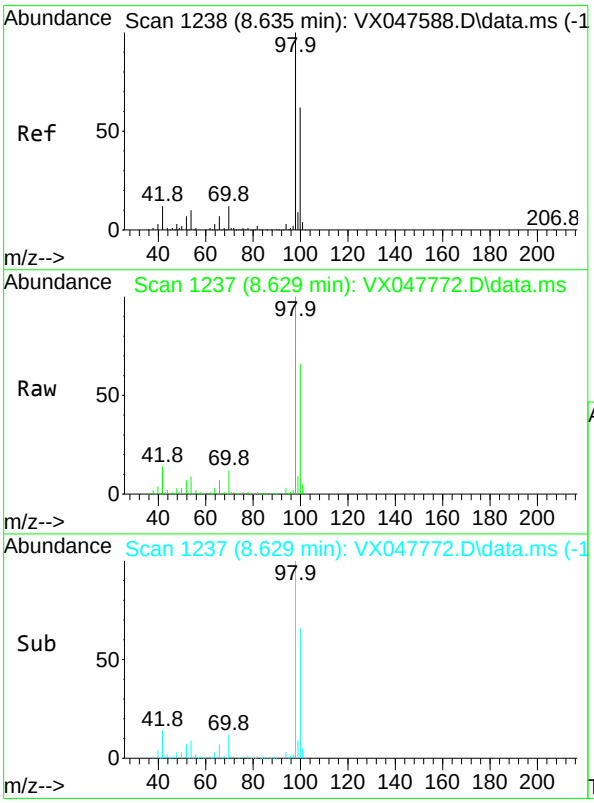
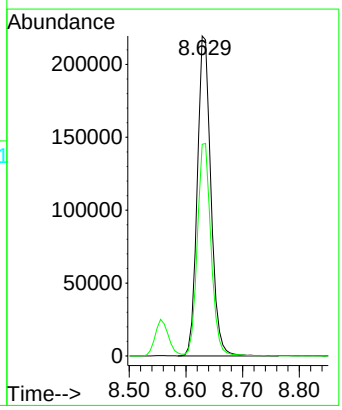


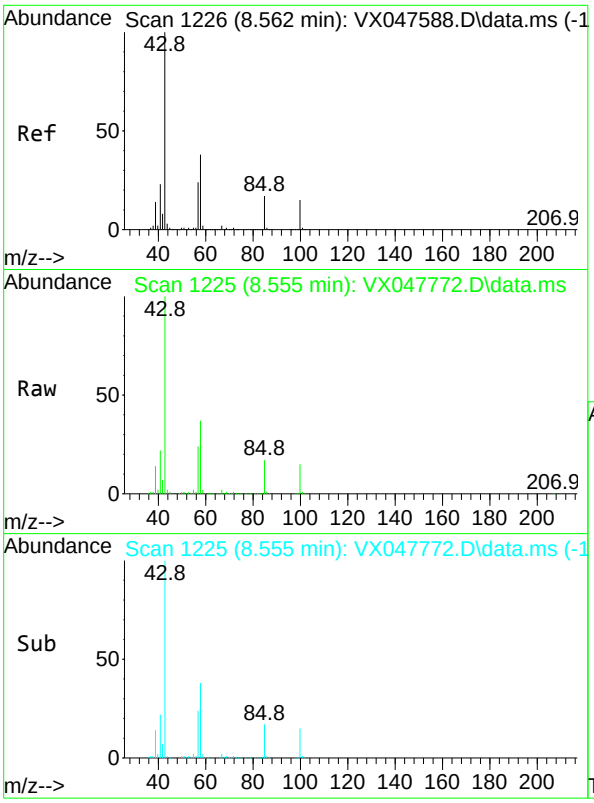


#50
Toluene-d8
Concen: 54.748 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 98 Resp: 365795

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4

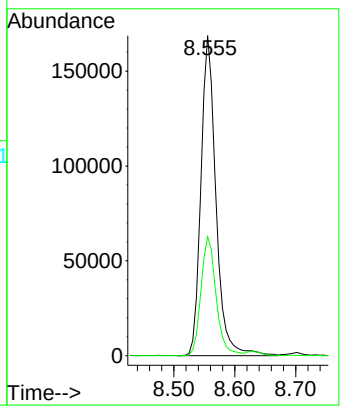




#51
4-Methyl-2-Pentanone
Concen: 105.270 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 28919

Ion	Ratio	Lower	Upper
43	100		
58	37.3	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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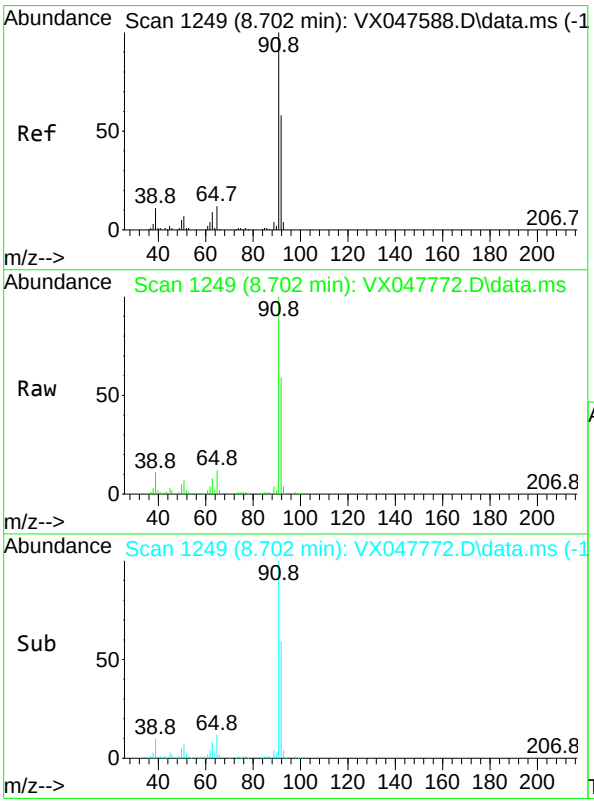
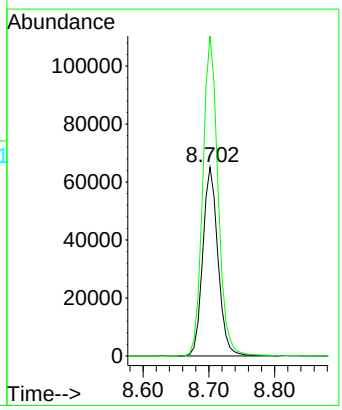
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

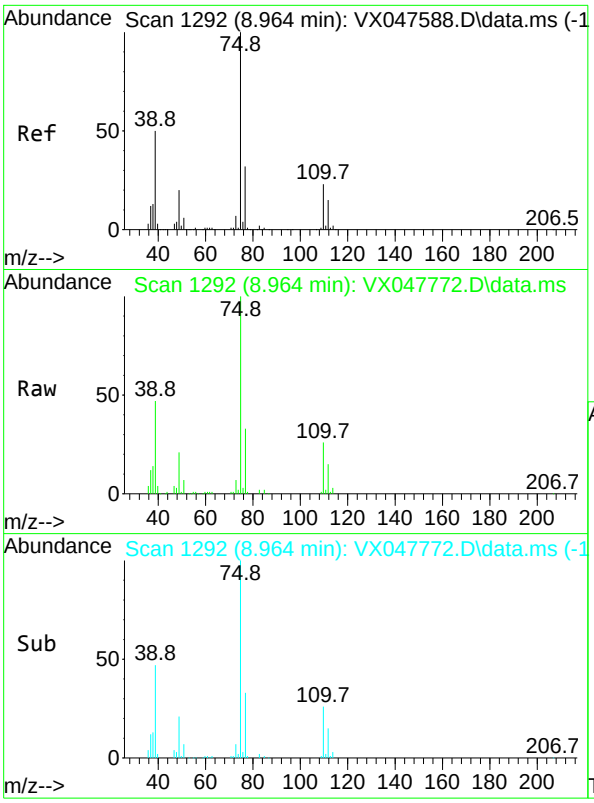


#52
Toluene
Concen: 19.804 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 92 Resp: 104564

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7

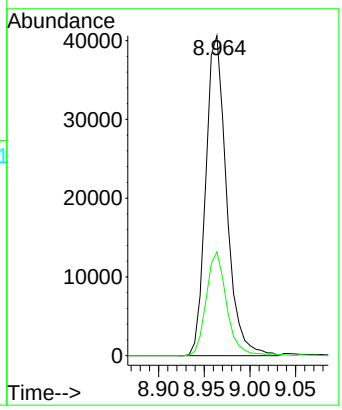




#53
t-1,3-Dichloropropene
Concen: 19.030 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 6396

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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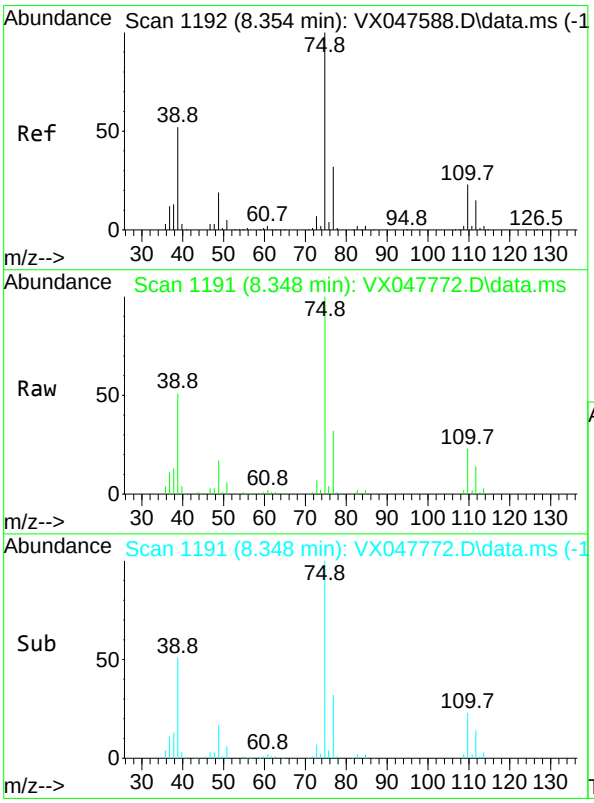
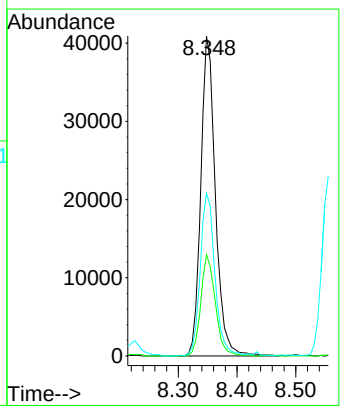
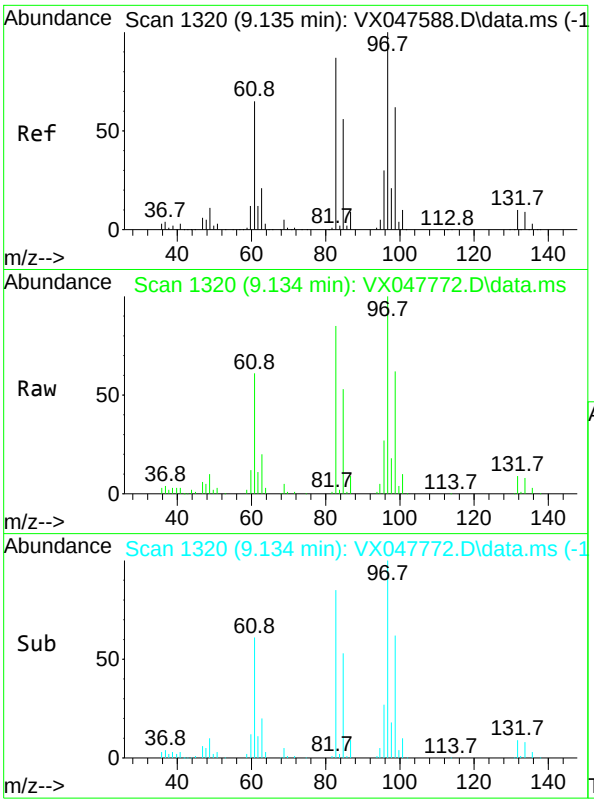


#54
cis-1,3-Dichloropropene
Concen: 19.669 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 70664

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.8	38.6
39	49.7	41.4	62.2

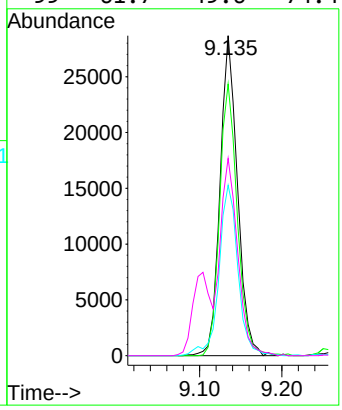




#55
1,1,2-Trichloroethane
Concen: 20.766 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 97 Resp: 4227

Ion	Ratio	Lower	Upper
97	100		
83	84.9	69.6	104.4
85	53.3	45.0	67.6
99	61.7	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
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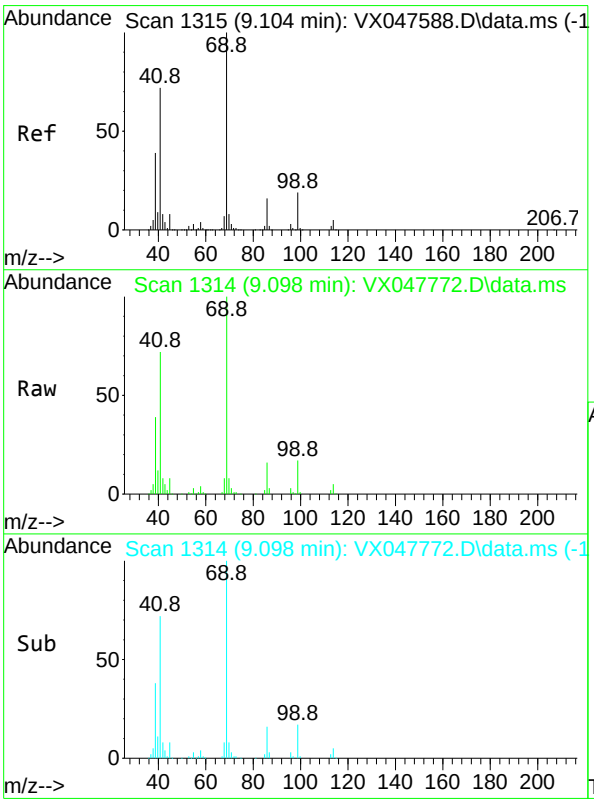
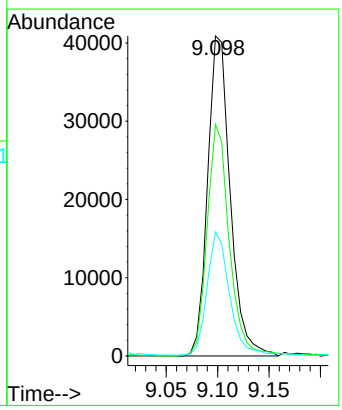
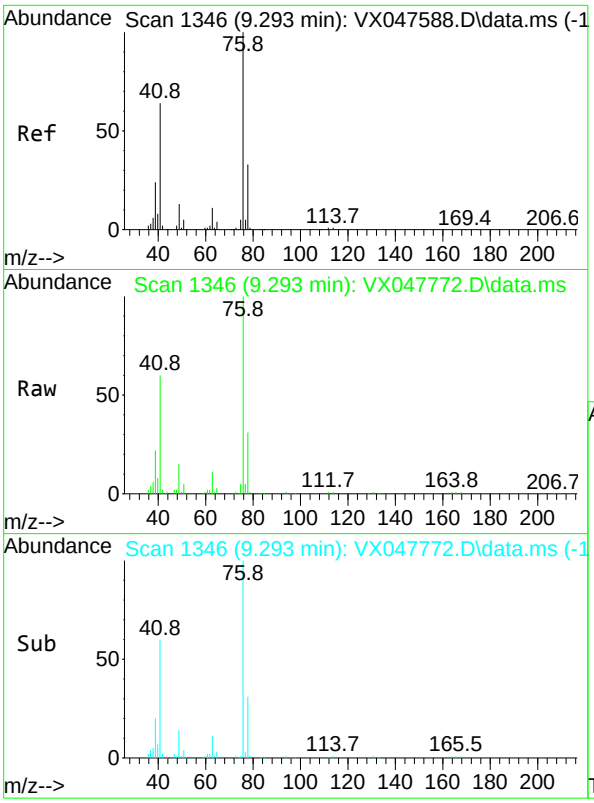


#56
Ethyl methacrylate
Concen: 19.540 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 69 Resp: 62475

Ion	Ratio	Lower	Upper
69	100		
41	71.4	58.6	87.8
39	39.0	31.5	47.3

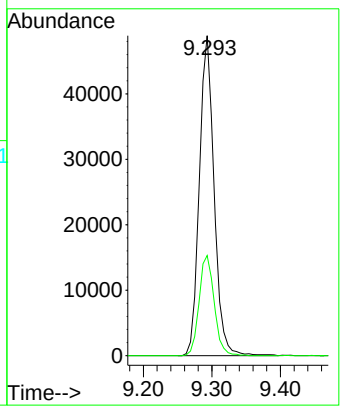




#57
1,3-Dichloropropane
Concen: 20.961 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 76 Resp: 7330

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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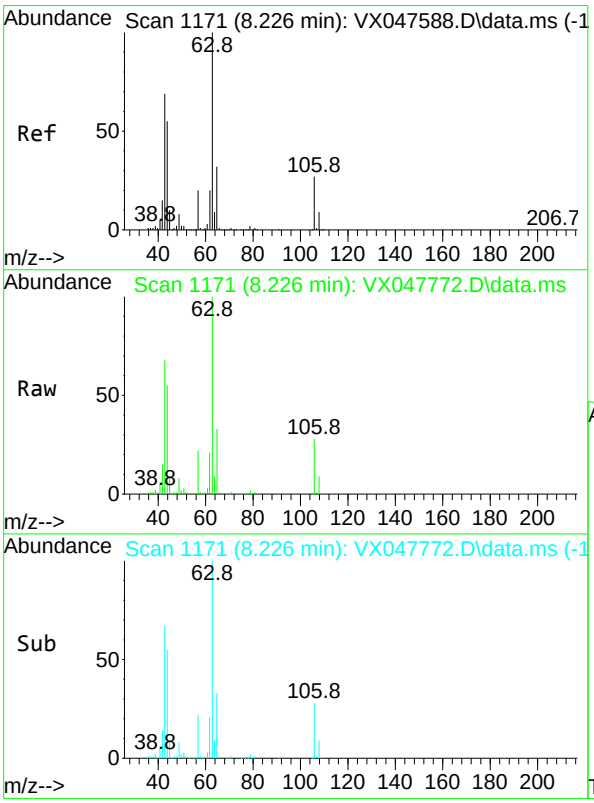
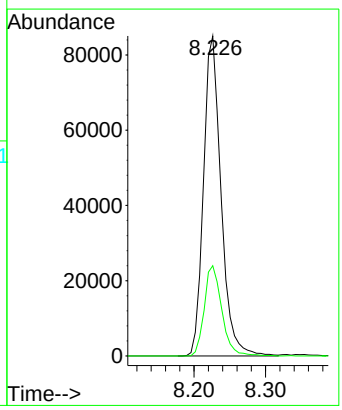
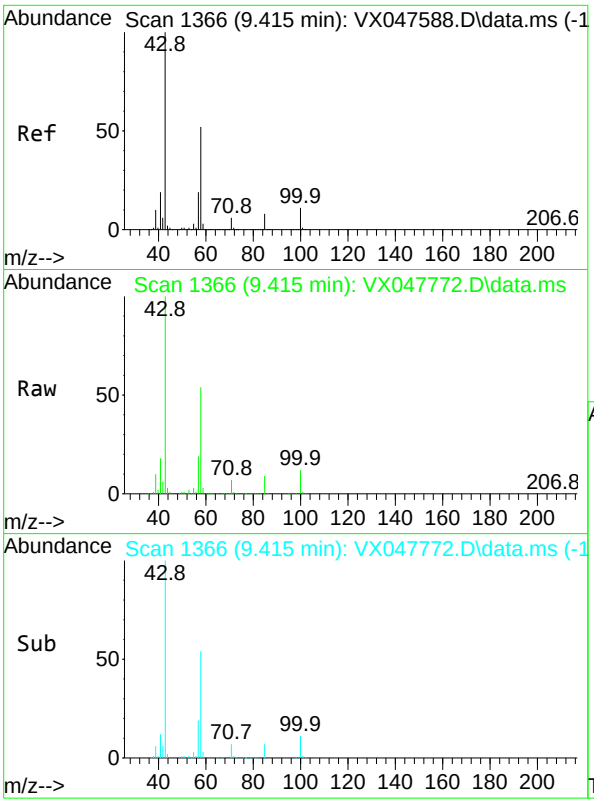


#58
2-Chloroethyl Vinyl ether
Concen: 101.954 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 63 Resp: 144993

Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.9	32.9

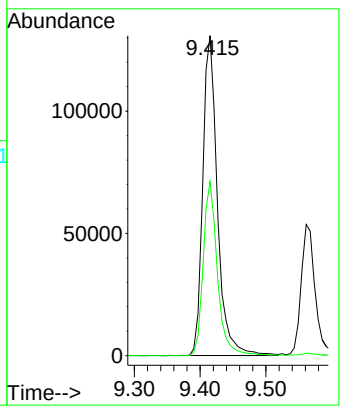




#59
2-Hexanone
Concen: 102.535 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 20230

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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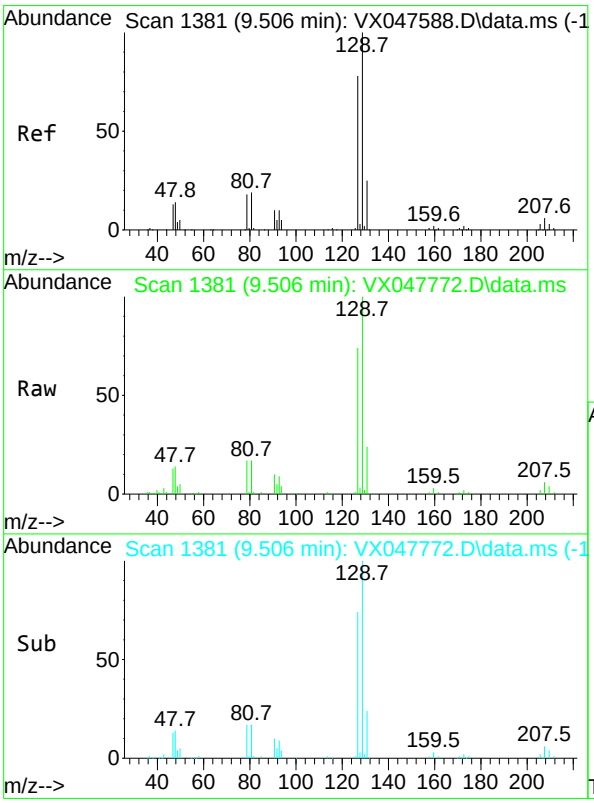
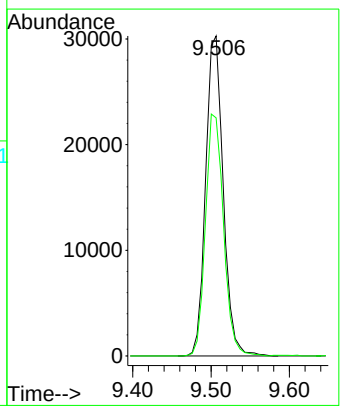
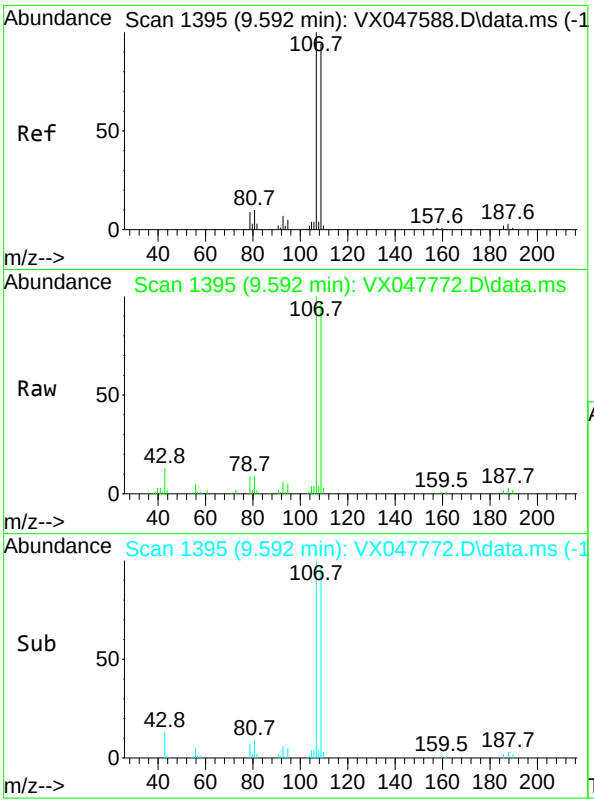


#60
Dibromochloromethane
Concen: 20.088 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:129 Resp: 47122

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2

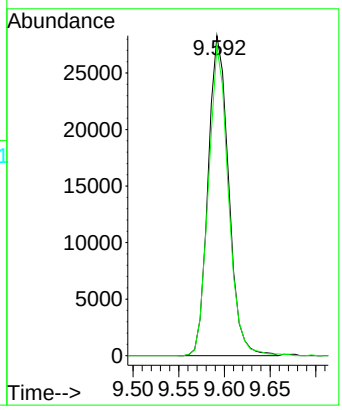




#61
1,2-Dibromoethane
Concen: 21.240 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:107 Resp: 4404

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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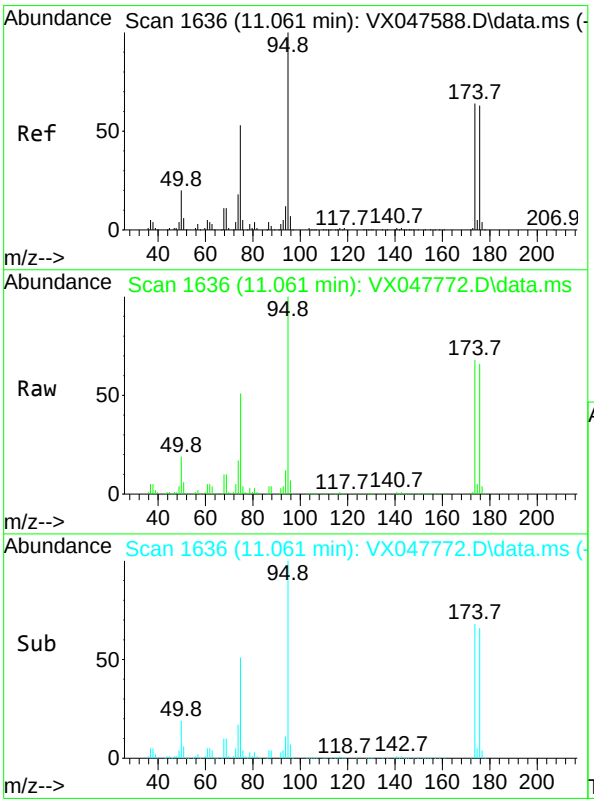
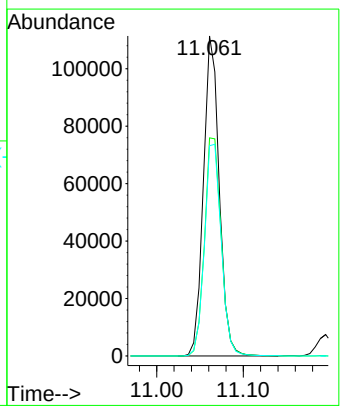
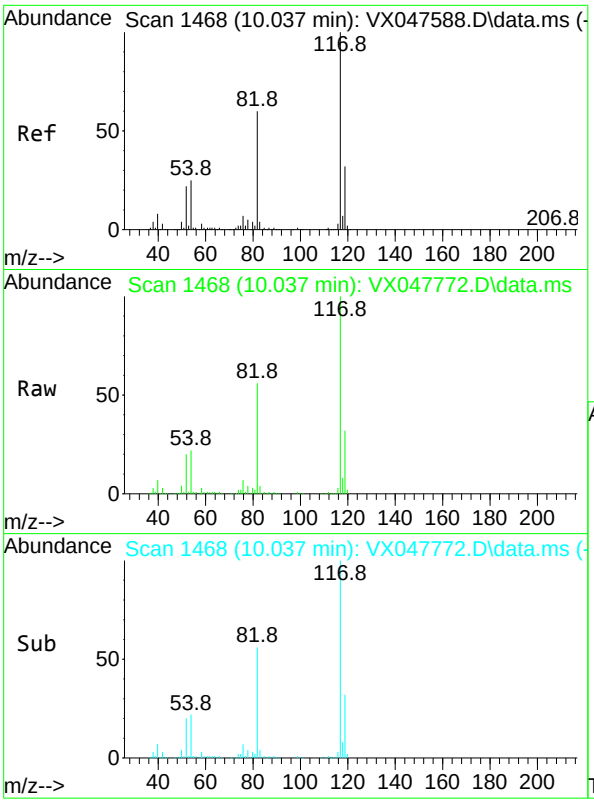


#62
4-Bromofluorobenzene
Concen: 55.720 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 95 Resp: 141293

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	141.6
176	70.4	0.0	138.4

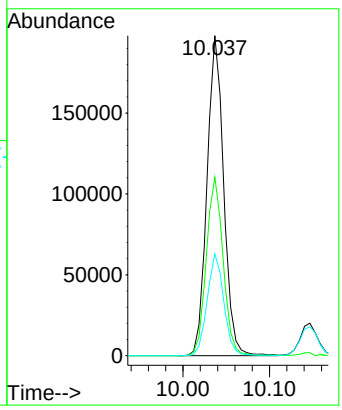




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:117 Resp: 26471

Ion	Ratio	Lower	Upper
117	100		
82	55.8	47.8	71.6
119	31.8	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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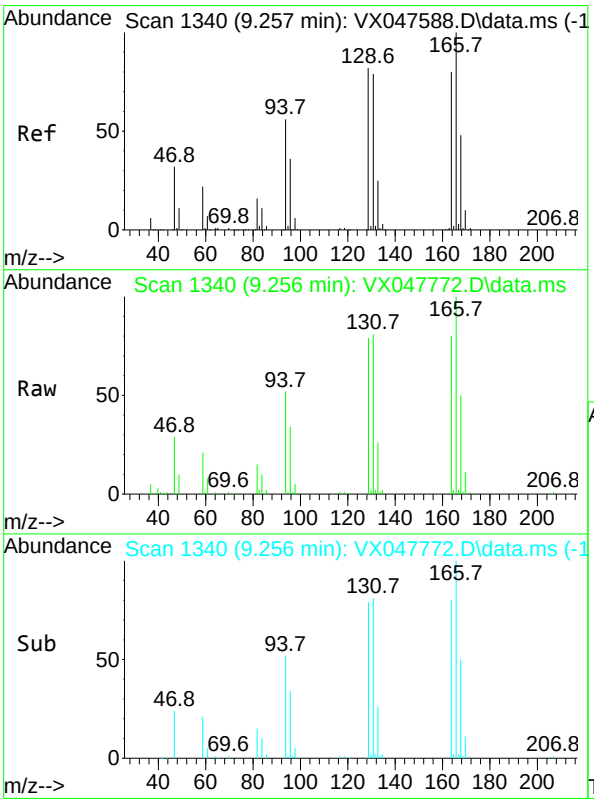
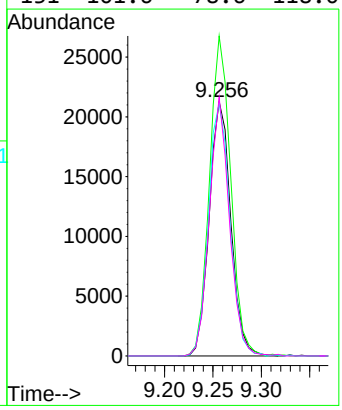
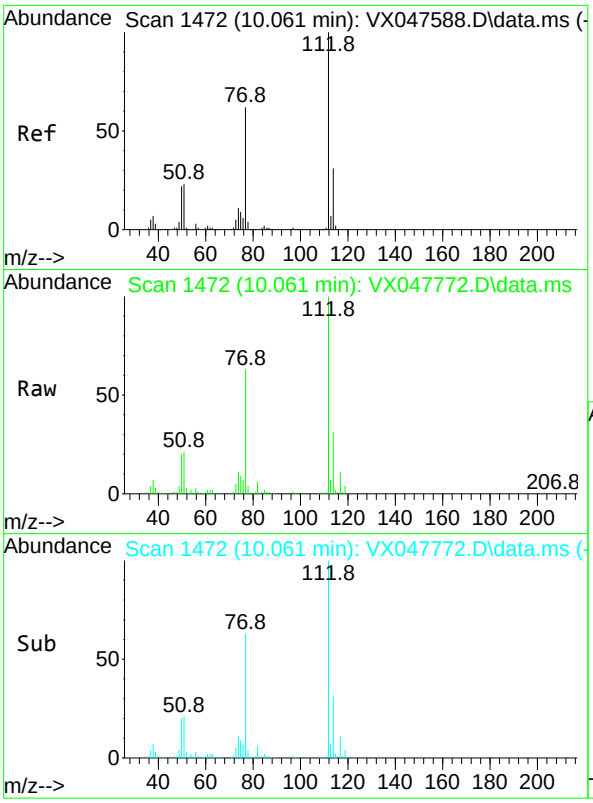


#64
Tetrachloroethene
Concen: 19.110 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:164 Resp: 32977

Ion	Ratio	Lower	Upper
164	100		
166	125.7	100.2	150.2
129	99.2	81.8	122.6
131	101.6	78.6	118.0

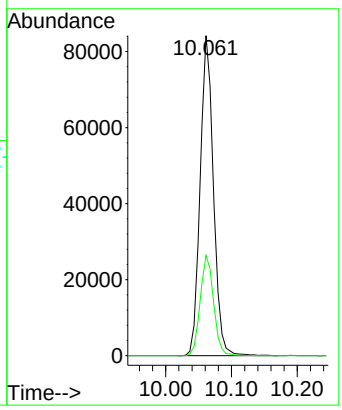




#65
Chlorobenzene
Concen: 19.626 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:112 Resp: 11802

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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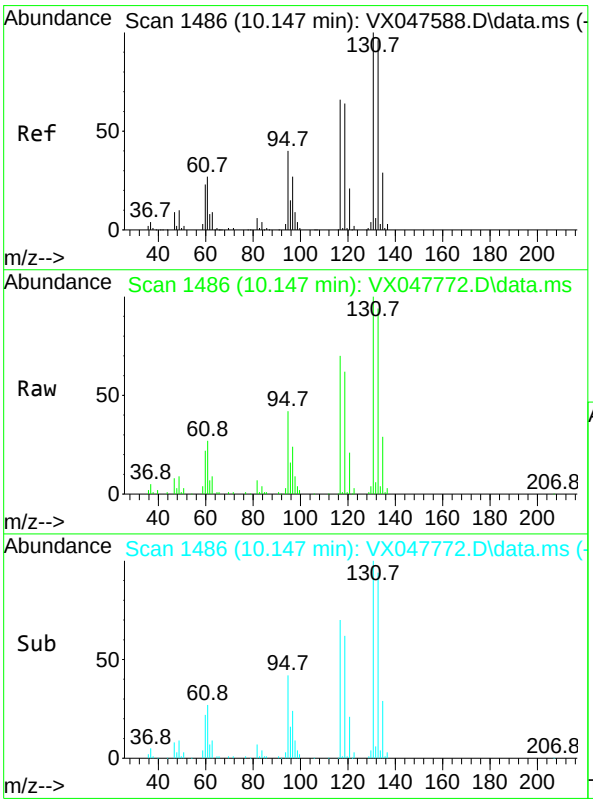
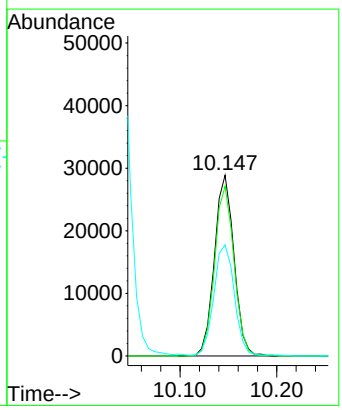
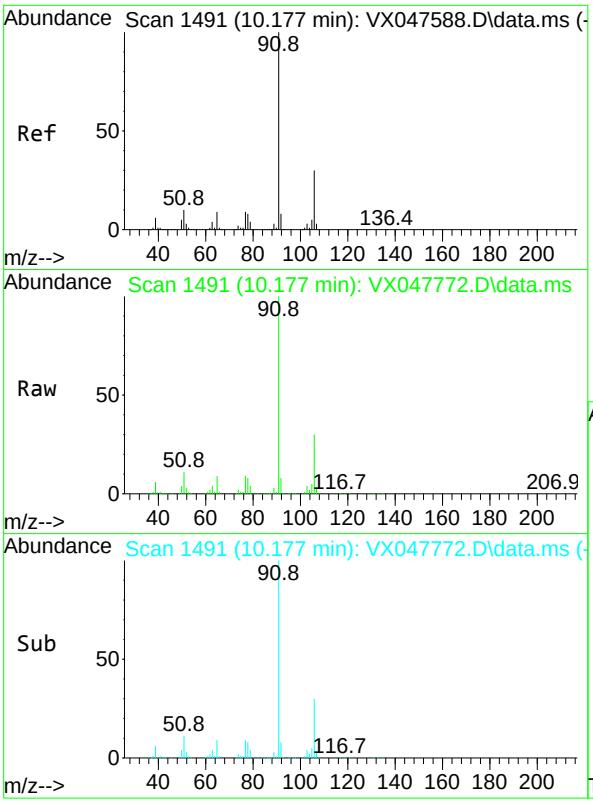


#66
1,1,1,2-Tetrachloroethane
Concen: 19.563 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:131 Resp: 40597

Ion	Ratio	Lower	Upper
131	100		
133	93.4	47.3	142.0
119	63.7	32.0	96.0





#67
Ethyl Benzene
Concen: 19.053 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 91 Resp: 19770

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations
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Reviewed By :John Carlone 09/25/2025
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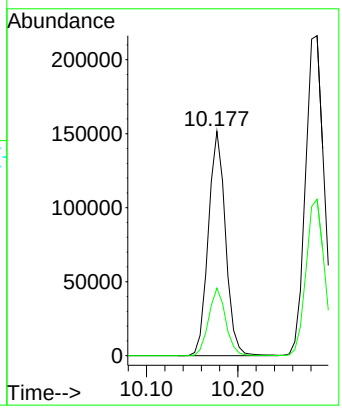
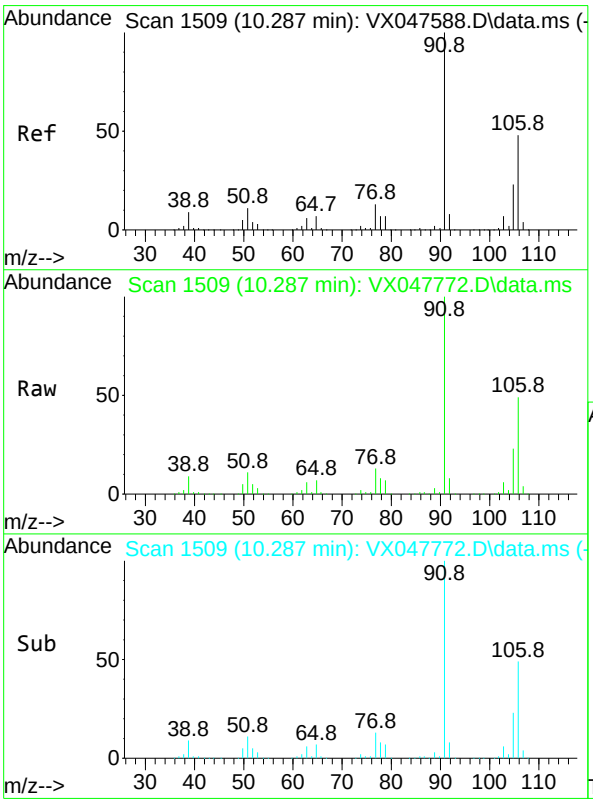
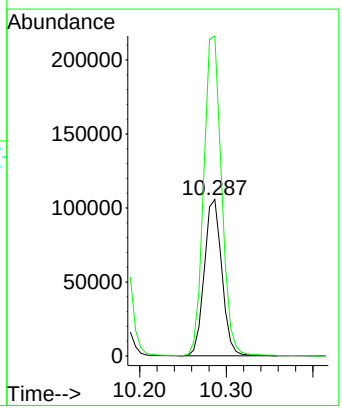


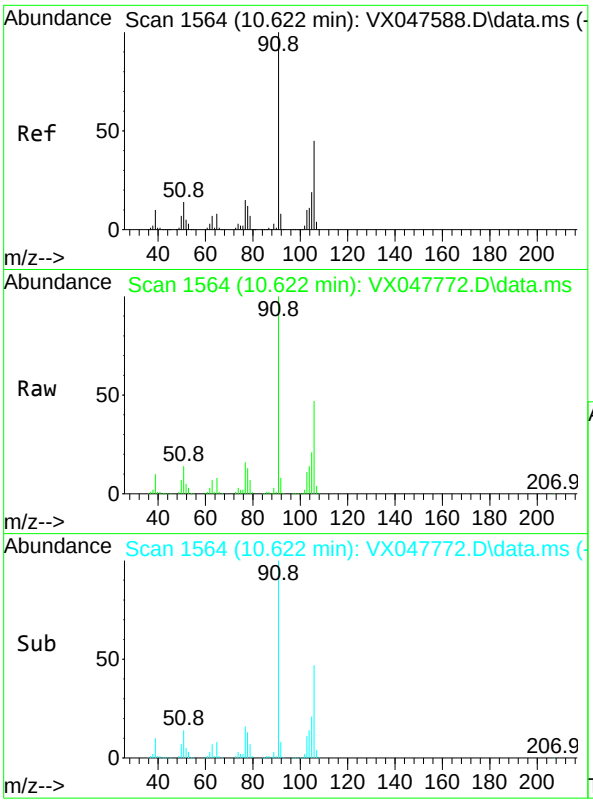


#68
m/p-Xylenes
Concen: 38.547 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:106 Resp: 148875

Ion	Ratio	Lower	Upper
106	100		
91	208.4	167.8	251.8





#69
o-Xylene
Concen: 19.361 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:106 Resp: 7232

Ion	Ratio	Lower	Upper
106	100		
91	218.6	111.1	333.4

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations
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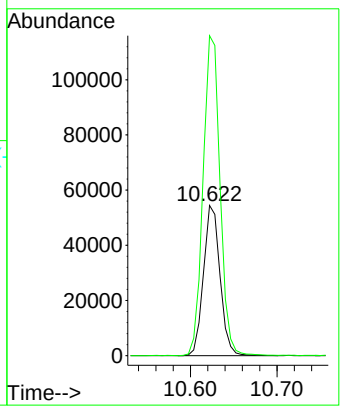
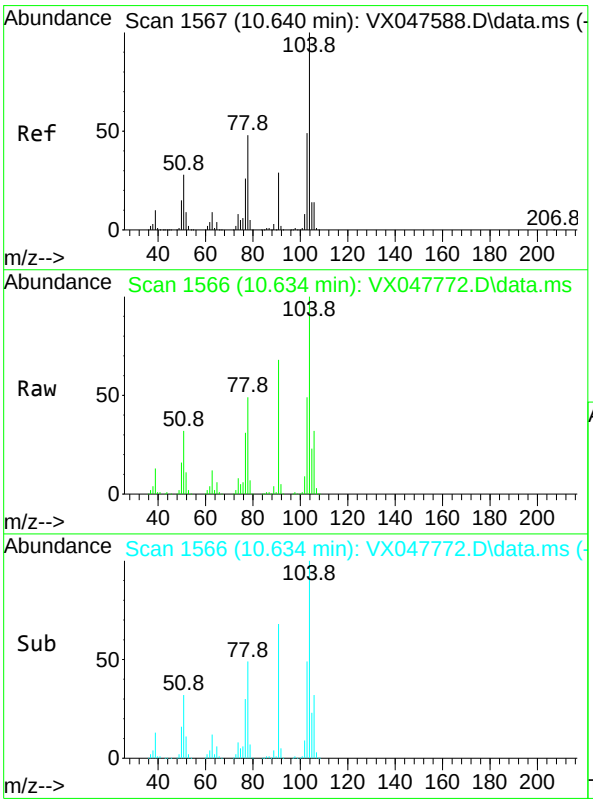
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

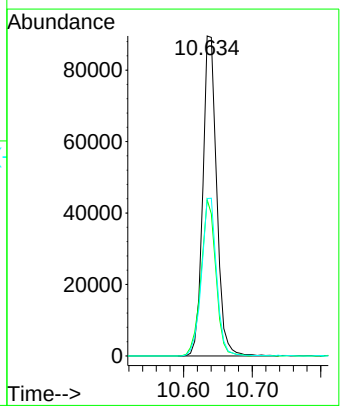


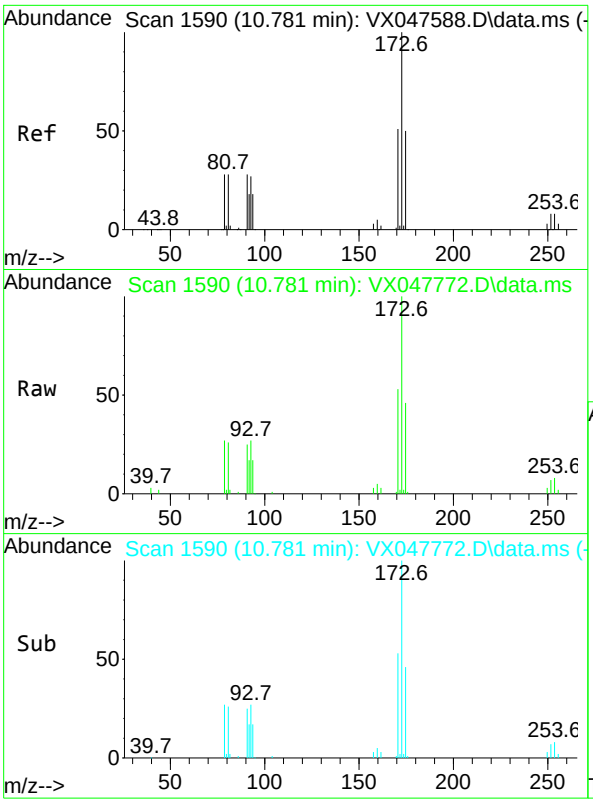


#70
Styrene
Concen: 19.325 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:104 Resp: 126494

Ion	Ratio	Lower	Upper
104	100		
78	51.9	43.1	64.7
103	53.4	43.1	64.7

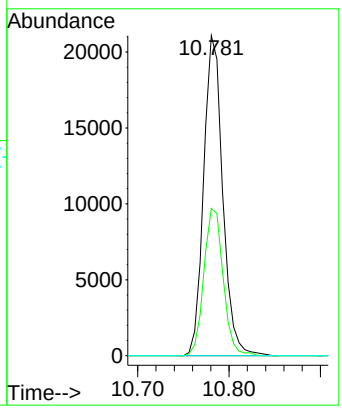




#71
Bromoform
Concen: 19.638 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:173 Resp: 3043

Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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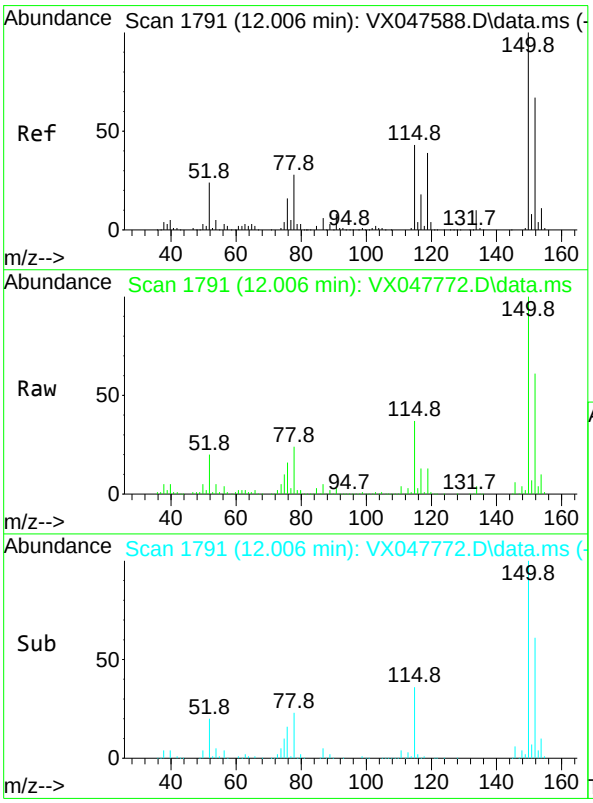
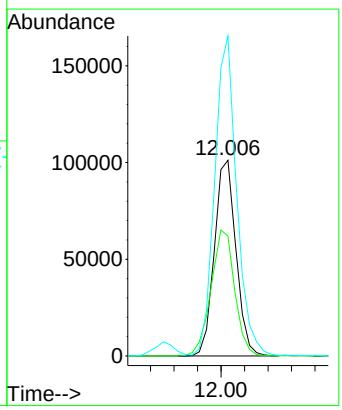
Supervised By :Mahesh Dadoda 09/26/2025

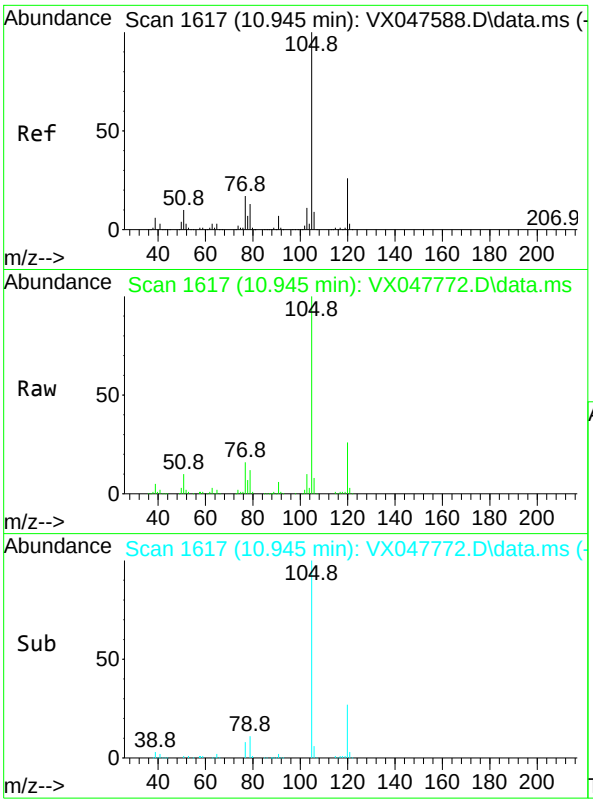


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:152 Resp: 129236

Ion	Ratio	Lower	Upper
152	100		
115	70.6	44.9	134.5
150	166.8	0.0	352.0

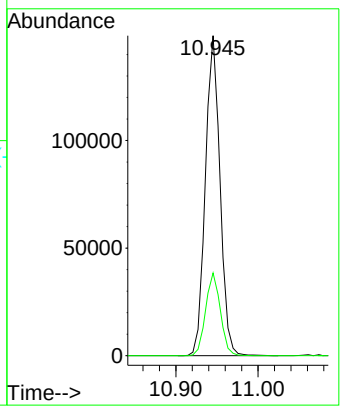




#73
Isopropylbenzene
Concen: 18.708 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:105 Resp: 18381

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
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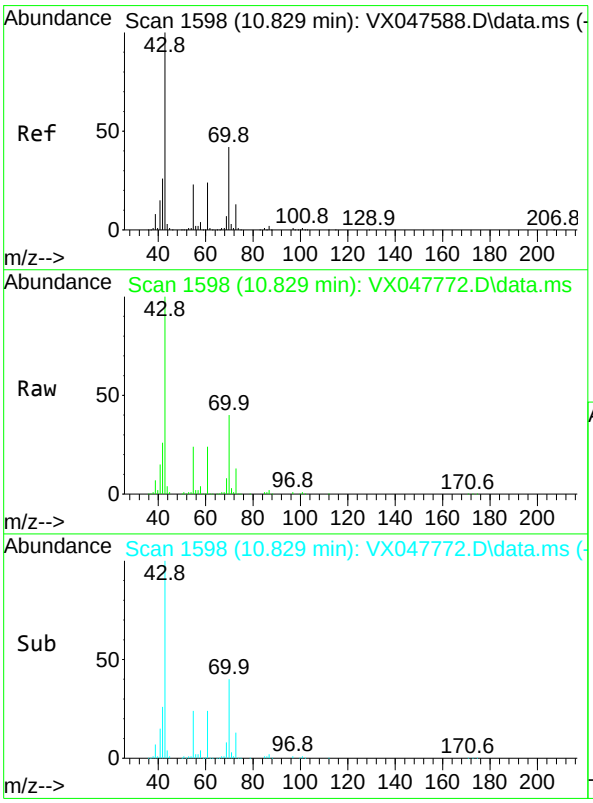
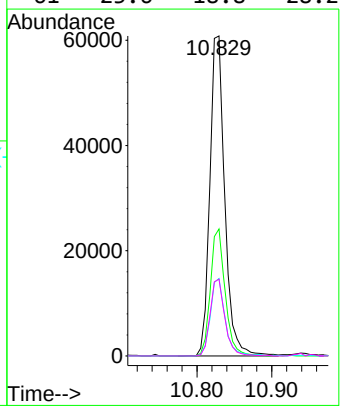
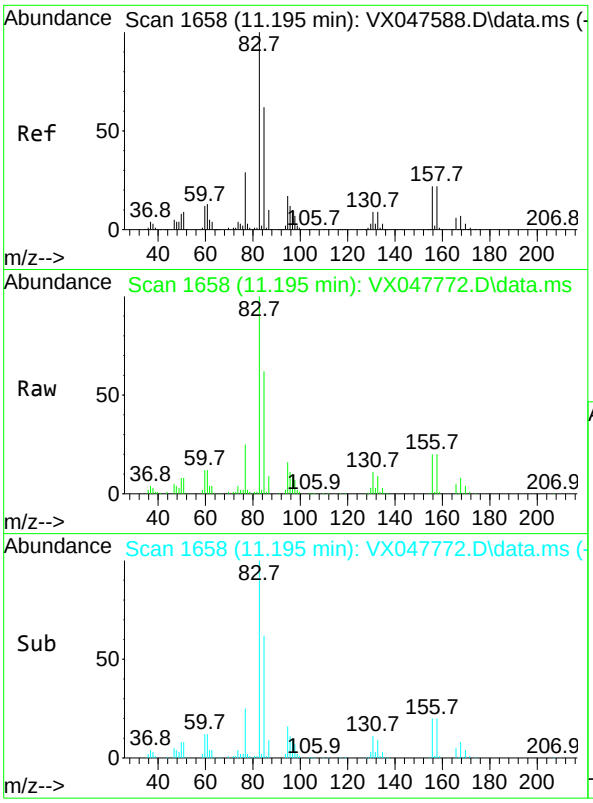


#74
N-amyl acetate
Concen: 18.837 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 84398

Ion	Ratio	Lower	Upper
43	100		
70	39.3	32.0	48.0
55	24.1	18.9	28.3
61	23.6	18.8	28.2

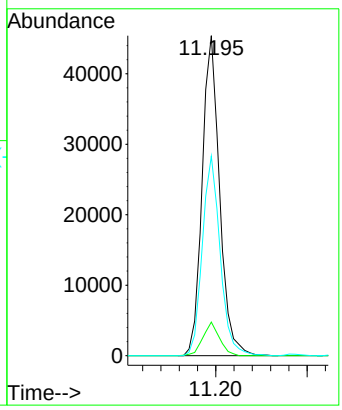




#75
1,1,2,2-Tetrachloroethane
Concen: 20.230 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 83 Resp: 6013

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	63.8	31.6	95.0



Instrument :
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ClientSampleId :
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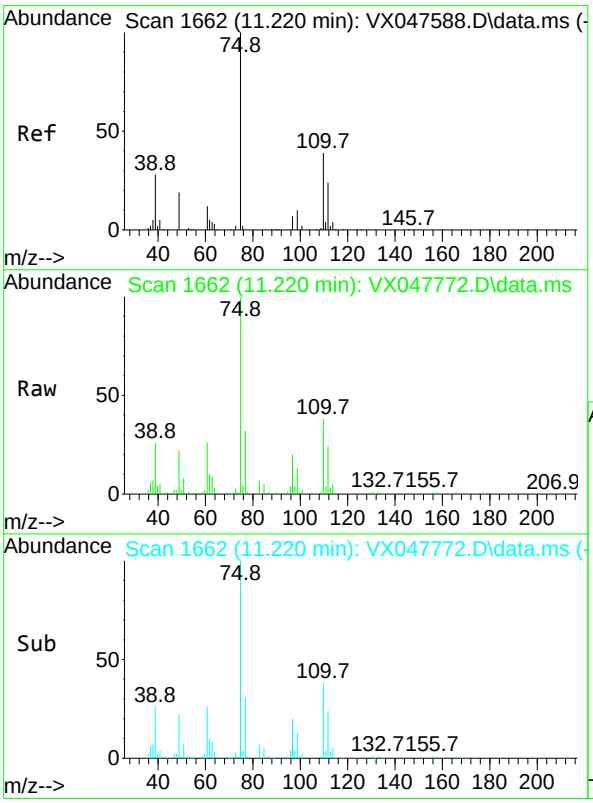
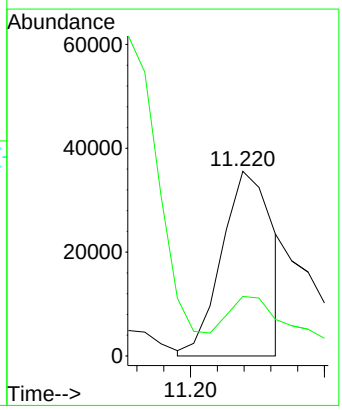
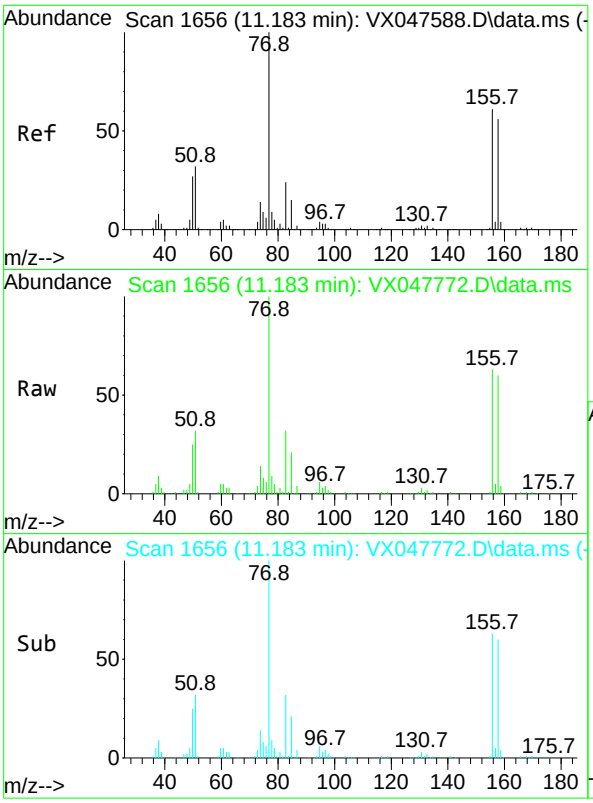


#76
1,2,3-Trichloropropane
Concen: 17.894 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 46823

Ion	Ratio	Lower	Upper
75	100		
77	42.3	18.8	56.4

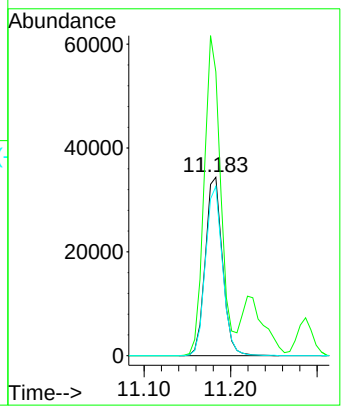




#77
Bromobenzene
Concen: 19.505 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:156 Resp: 4720

Ion	Ratio	Lower	Upper
156	100		
77	174.3	89.7	269.1
158	94.8	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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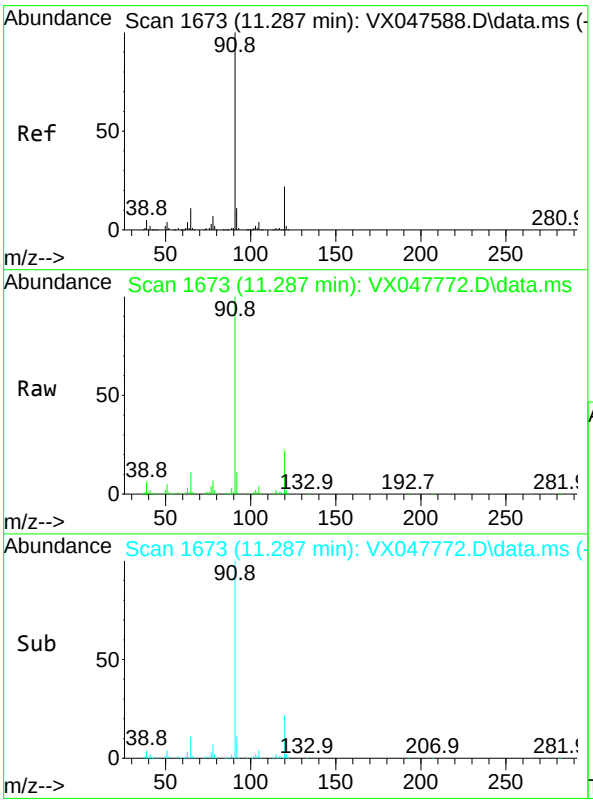
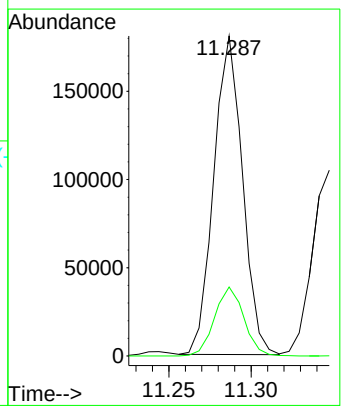
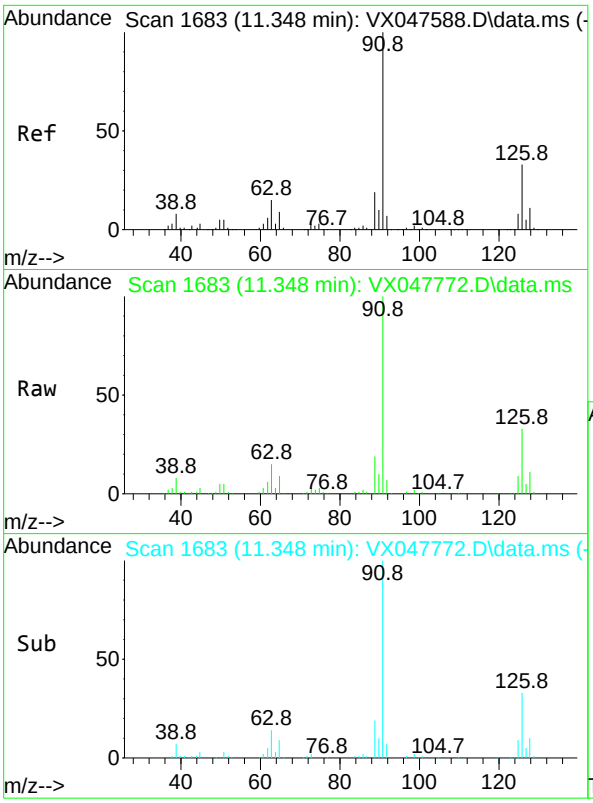


#78
n-propylbenzene
Concen: 18.882 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 91 Resp: 219305

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1

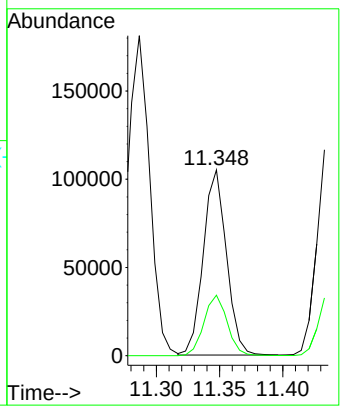




#79
2-Chlorotoluene
Concen: 18.794 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 91 Resp: 13369

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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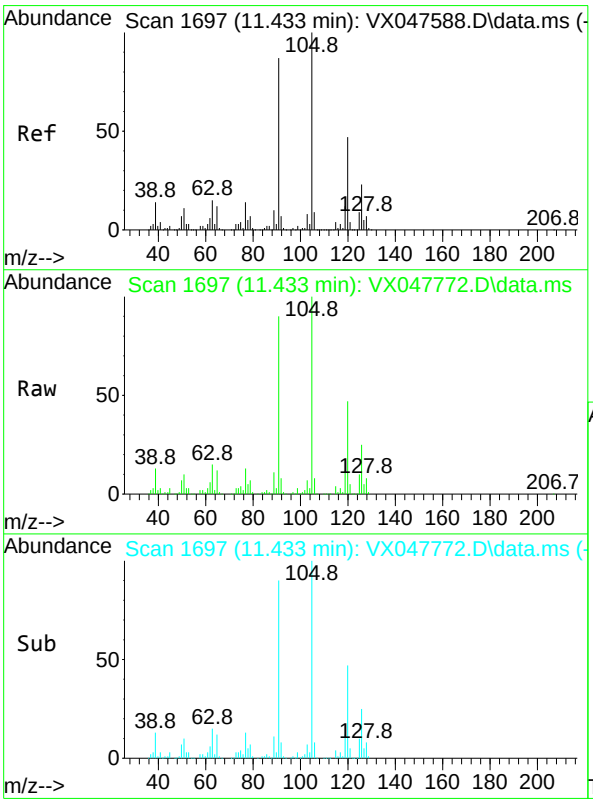
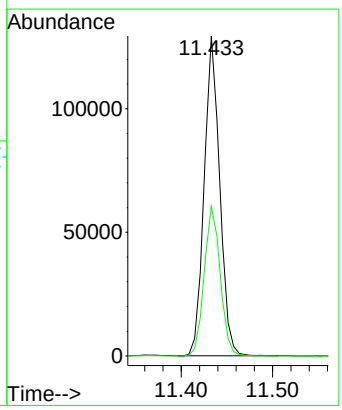
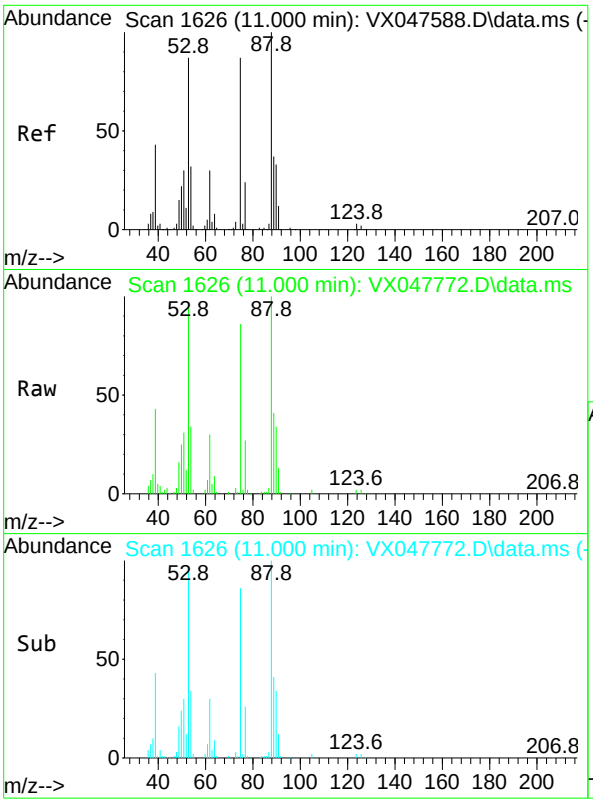


#80
1,3,5-Trimethylbenzene
Concen: 18.903 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:105 Resp: 152588

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.6	70.8

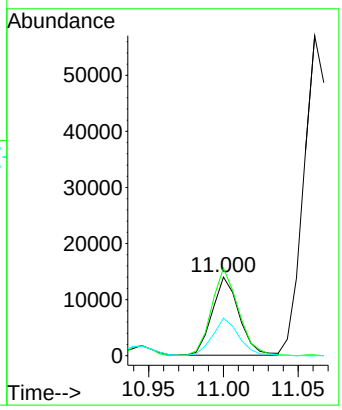




#81
trans-1,4-Dichloro-2-butene
Concen: 17.023 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 1746

Ion	Ratio	Lower	Upper
75	100		
53	111.6	83.4	125.2
89	47.5	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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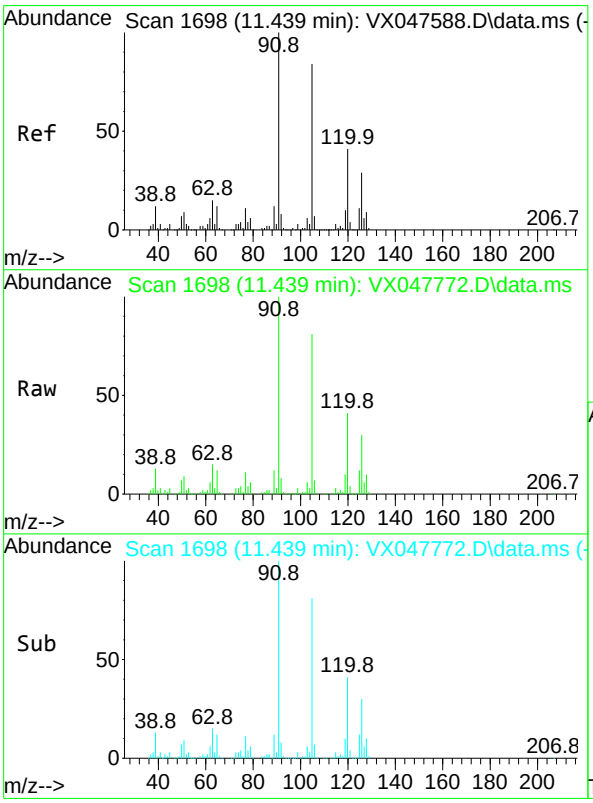
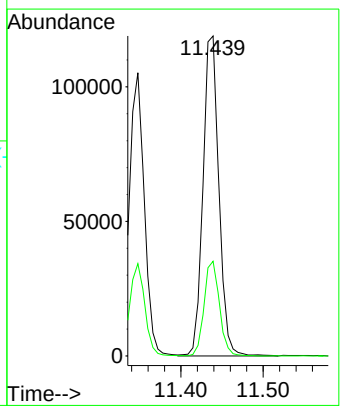
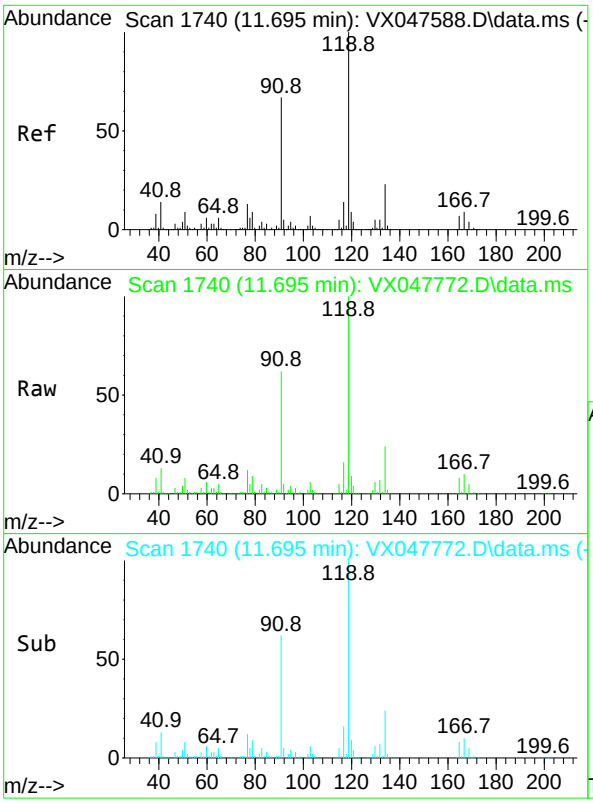


#82
4-Chlorotoluene
Concen: 18.979 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 91 Resp: 159461

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6

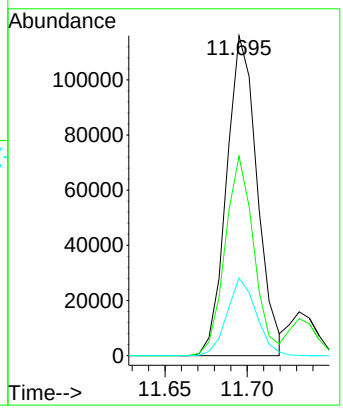




#83
tert-Butylbenzene
Concen: 18.153 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:119 Resp: 15000

Ion	Ratio	Lower	Upper
119	100		
91	58.8	29.6	88.8
134	23.2	11.0	33.0



Instrument :
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ClientSampleId :
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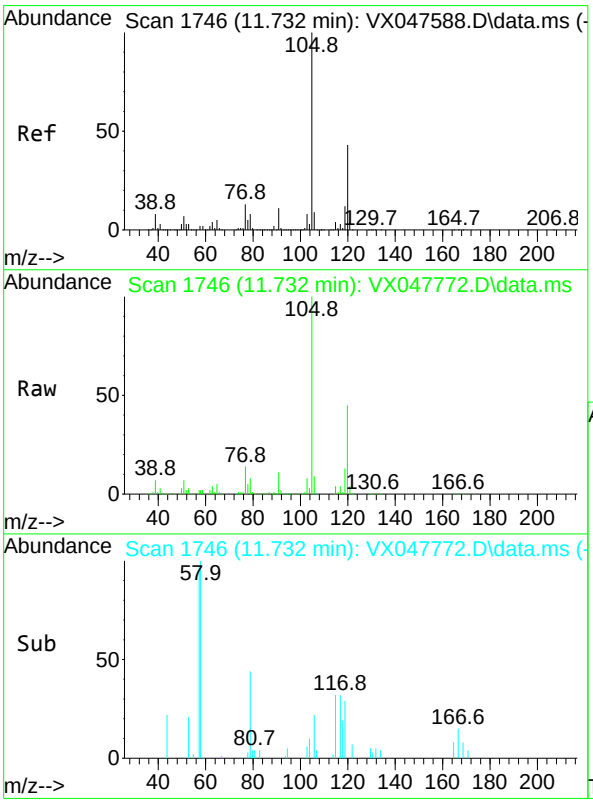
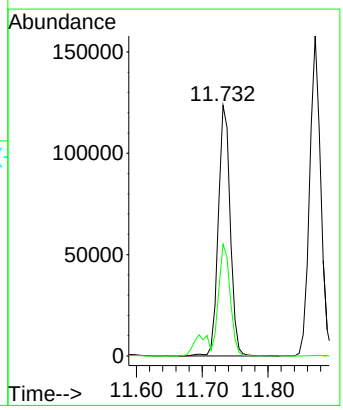
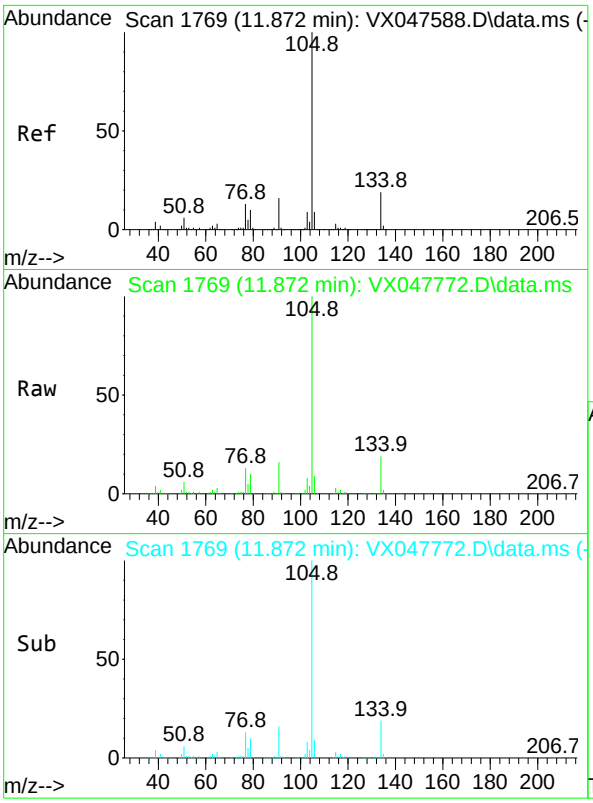


#84
1,2,4-Trimethylbenzene
Concen: 19.053 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:105 Resp: 155933

Ion	Ratio	Lower	Upper
105	100		
120	43.1	22.1	66.1

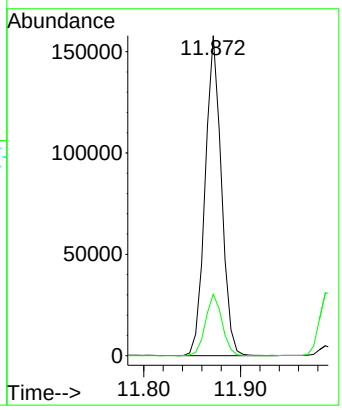




#85
sec-Butylbenzene
Concen: 18.788 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:105 Resp: 18440

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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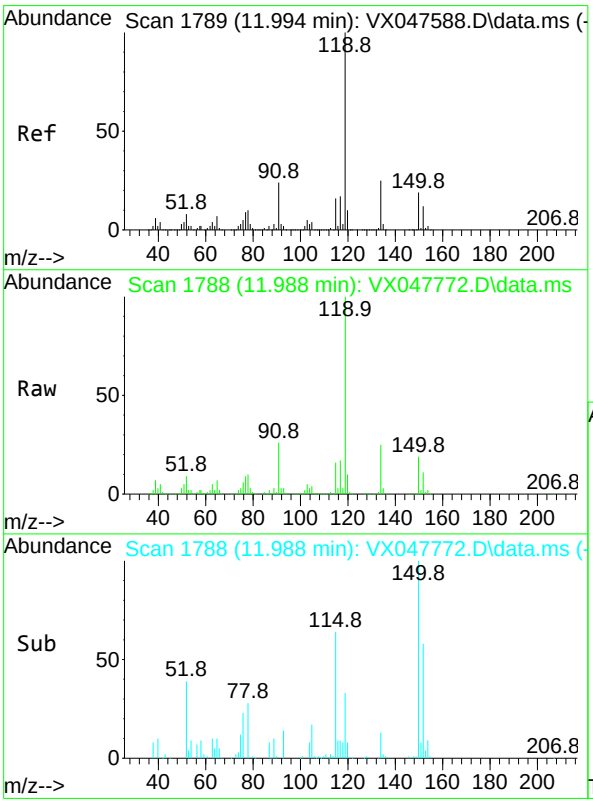
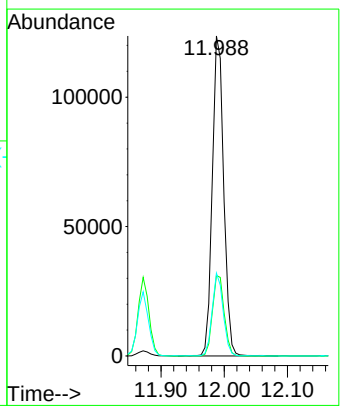
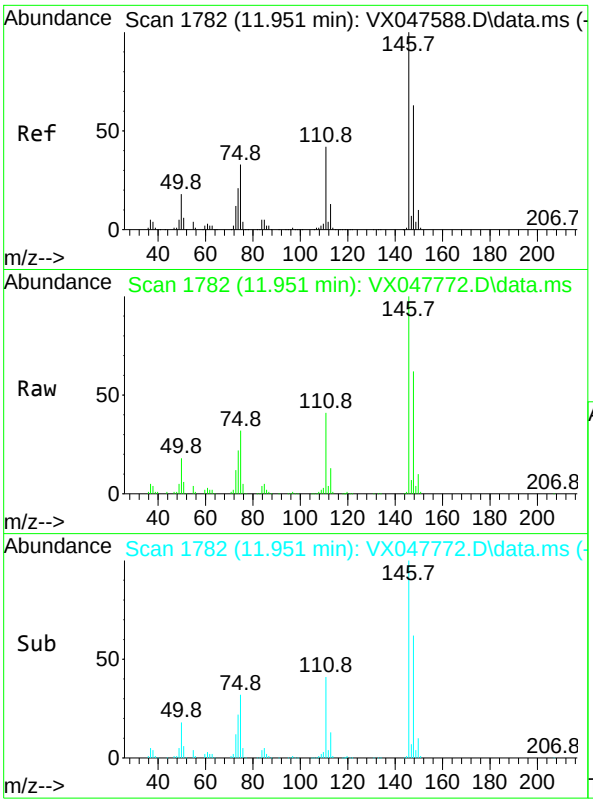


#86
p-Isopropyltoluene
Concen: 18.660 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:119 Resp: 155061

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.1	12.6	37.6

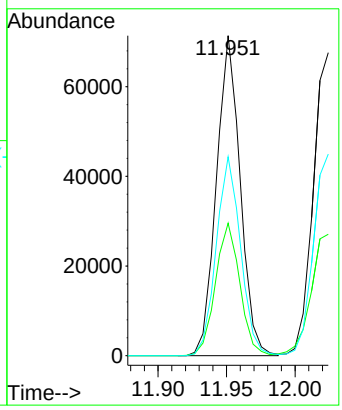




#87
1,3-Dichlorobenzene
Concen: 19.145 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:146 Resp: 8605

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.5	64.5
148	63.8	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

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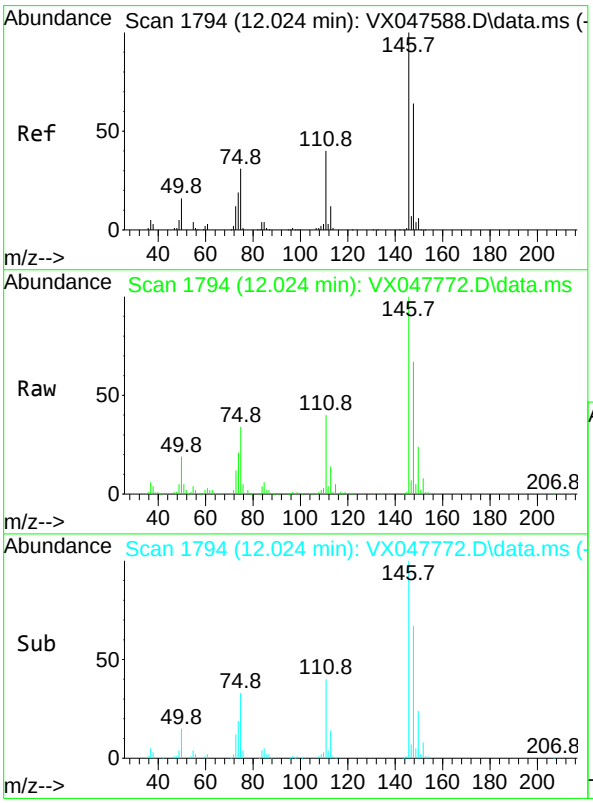
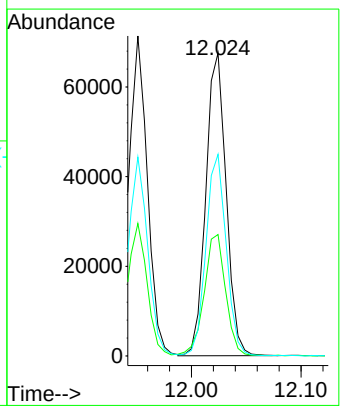
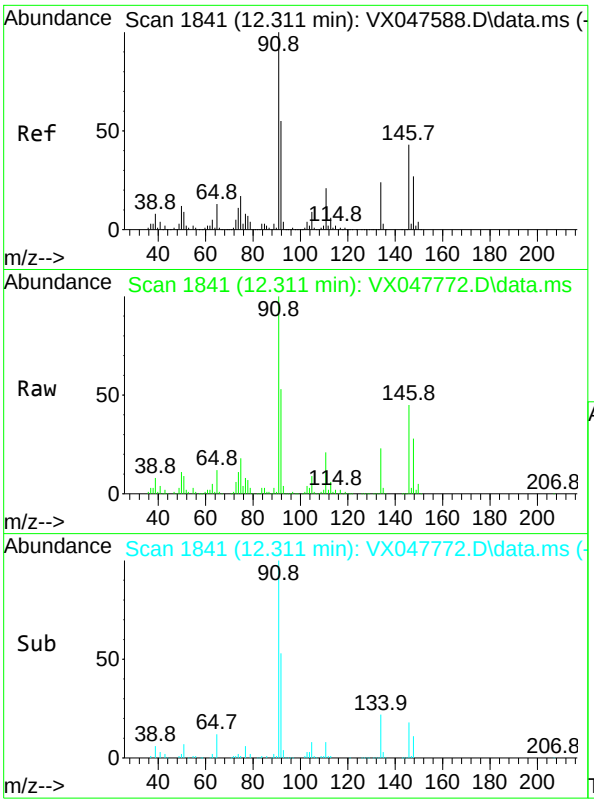


#88
1,4-Dichlorobenzene
Concen: 18.824 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:146 Resp: 86839

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.8	62.4
148	66.3	31.7	95.1

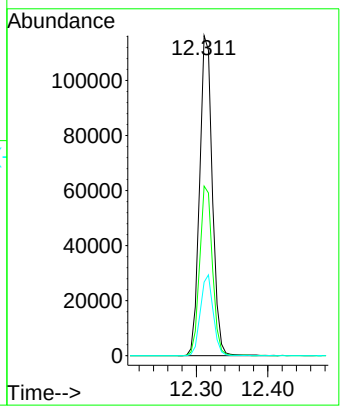




#89
n-Butylbenzene
Concen: 18.668 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 91 Resp: 14353

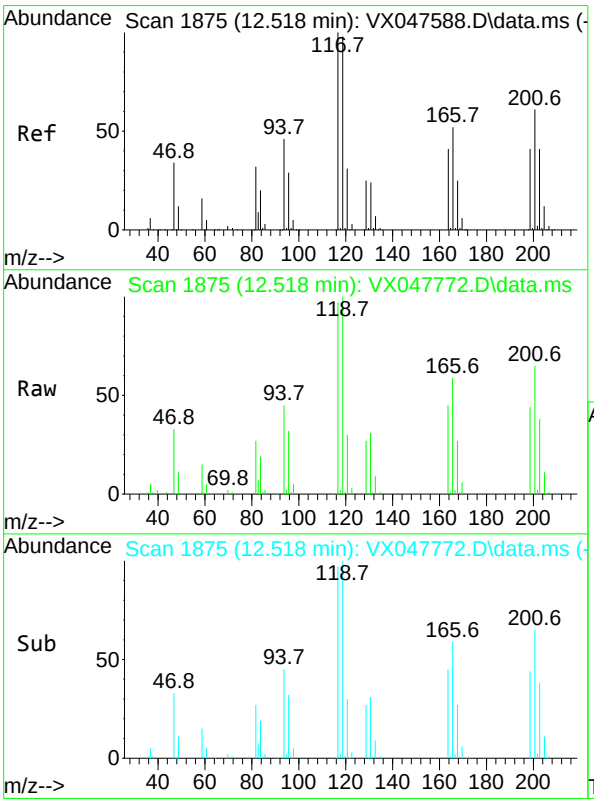
Ion	Ratio	Lower	Upper
91	100		
92	53.2	27.6	82.7
134	25.4	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations APPROVED

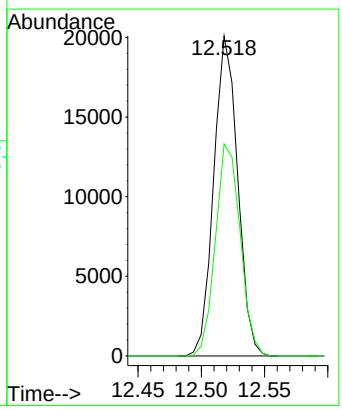
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

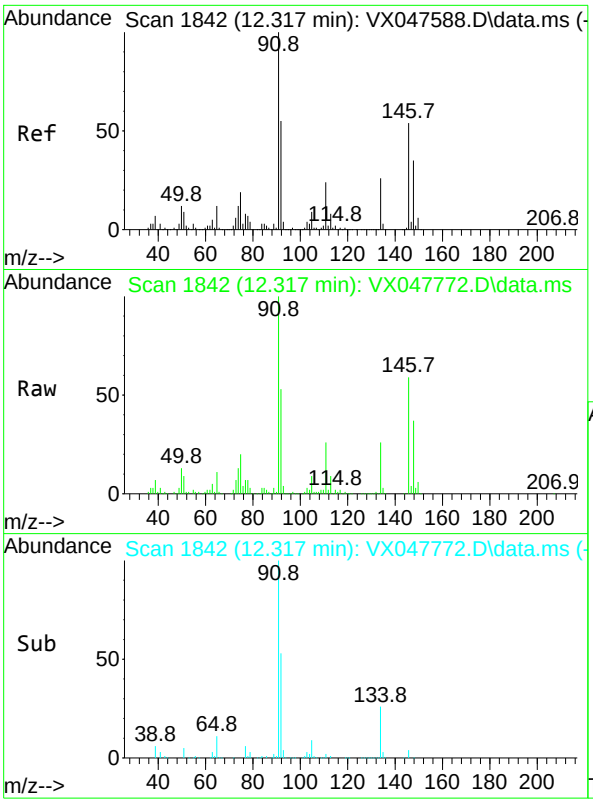


#90
Hexachloroethane
Concen: 18.084 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:117 Resp: 26384

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5

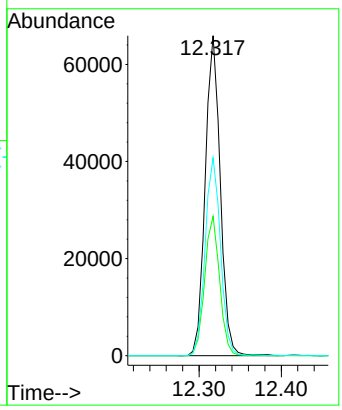




#91
1,2-Dichlorobenzene
Concen: 19.582 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:146 Resp: 8385

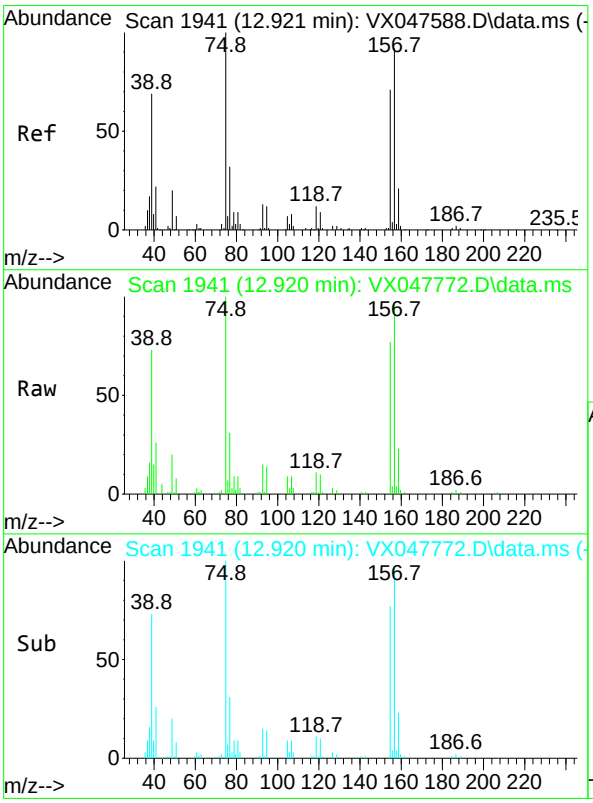
Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.2	66.6
148	63.2	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations
APPROVED

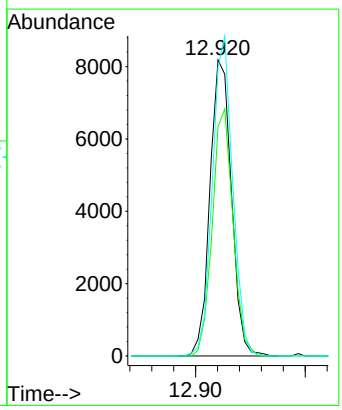
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

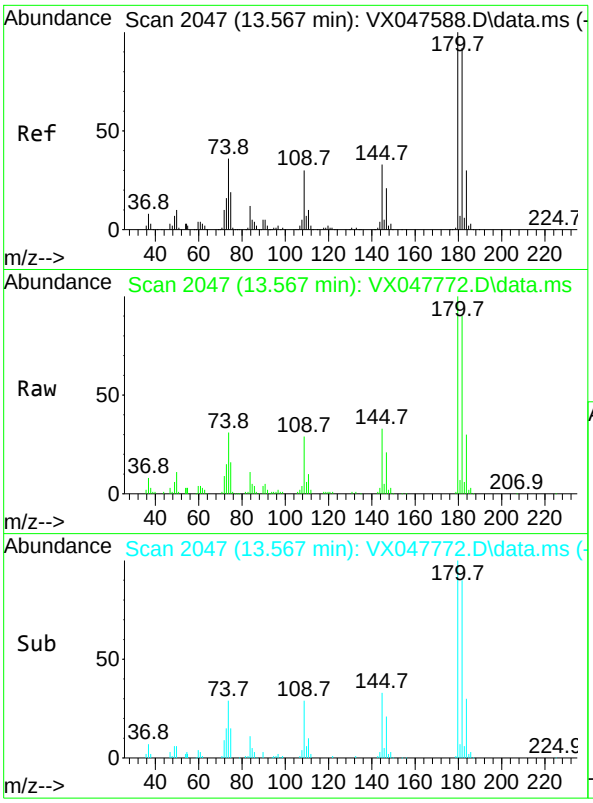


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.453 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 11106

Ion	Ratio	Lower	Upper
75	100		
155	80.4	37.7	113.1
157	102.5	49.8	149.4

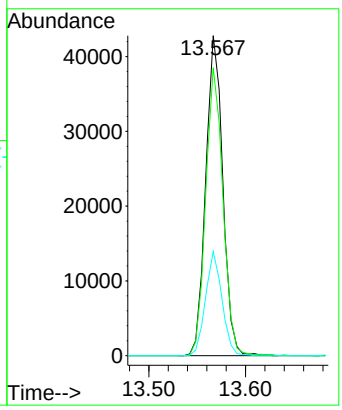




#93
1,2,4-Trichlorobenzene
Concen: 18.882 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:180 Resp: 5254

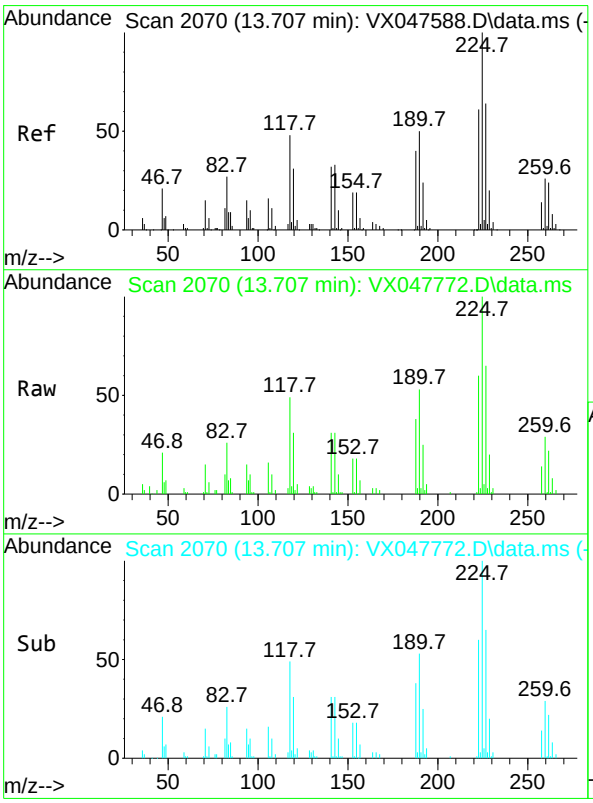
Ion	Ratio	Lower	Upper
180	100		
182	91.3	46.6	139.8
145	31.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations APPROVED

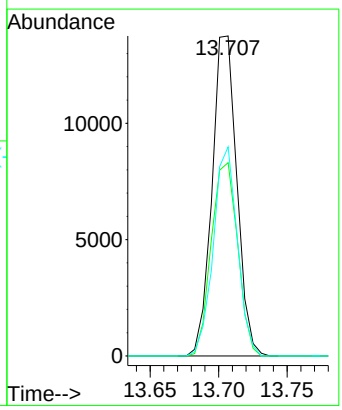
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025

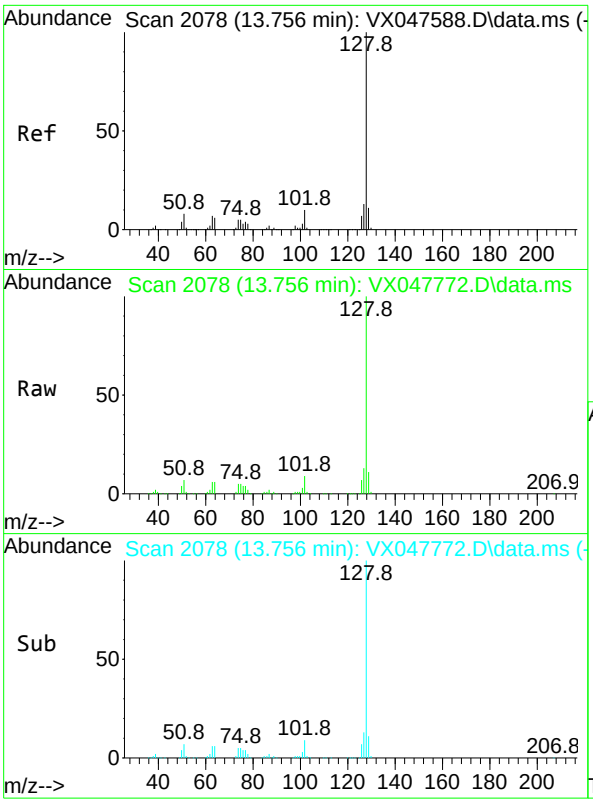


#94
Hexachlorobutadiene
Concen: 18.307 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:225 Resp: 17306

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.7	95.1
227	63.2	32.0	96.0

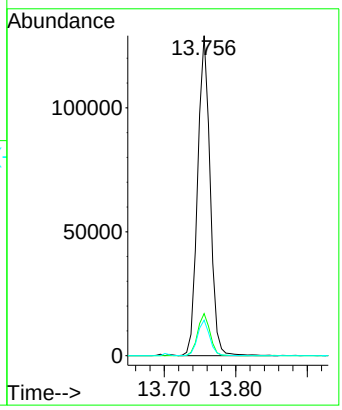




#95
Naphthalene
Concen: 18.438 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:128 Resp: 15625

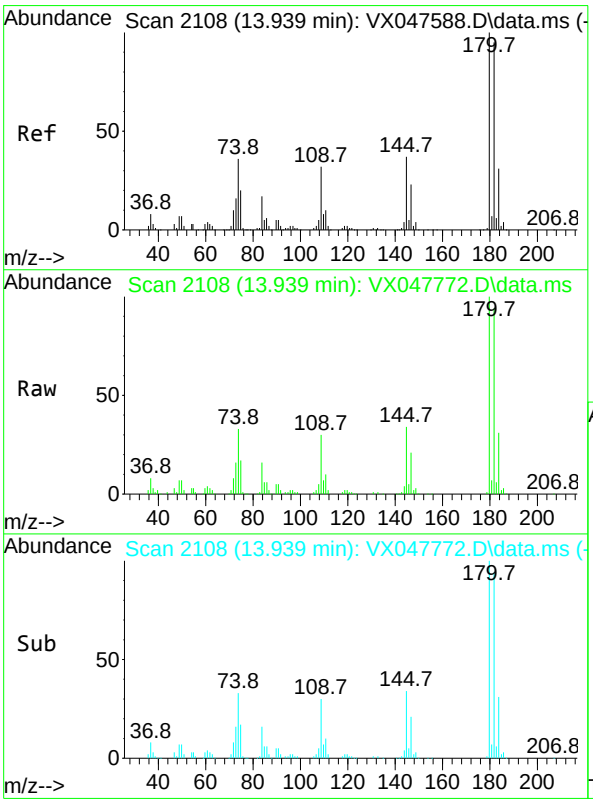
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Manual Integrations
APPROVED

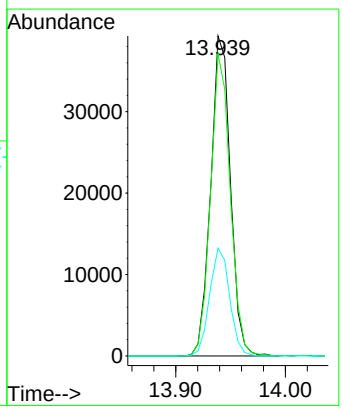
Reviewed By :John Carlone 09/25/2025
Supervised By :Mahesh Dadoda 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.990 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:180 Resp: 49161

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.6	142.8
145	34.3	17.9	53.7



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MS	SDG No.:	Q3097
Lab Sample ID:	Q3097-02MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047715.D	1	09/22/25 18:58	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	64.1		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	59.5		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	60.1		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	59.4		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	56.2		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	55.9		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	59.7		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	56.5		0.23	0.75	1.00	ug/L
67-64-1	Acetone	240		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	57.7		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	56.0		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	56.2		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	55.3		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	56.7		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	55.8		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	52.9		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	290		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	52.2		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	56.3		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	62.0		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	55.4		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	54.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	51.2		0.16	0.50	1.00	ug/L
71-43-2	Benzene	54.9		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	53.8		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	350	E	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	54.0		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	53.5		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	290		0.68	2.50	5.00	ug/L
108-88-3	Toluene	53.6		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MS	SDG No.:	Q3097
Lab Sample ID:	Q3097-02MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047715.D	1	09/22/25 18:58	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	53.1		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	52.4		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	54.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	280		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	55.7		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	56.8		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	52.5		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	53.9		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	52.7		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	53.8		0.12	0.50	1.00	ug/L
100-42-5	Styrene	53.7		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	54.8		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	52.2		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	55.4		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	51.8		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	51.0		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	53.1		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	53.7		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	51.0		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	50.6		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.2		81 - 118		114%	SPK: 50
1868-53-7	Dibromofluoromethane	57.7		80 - 119		115%	SPK: 50
2037-26-5	Toluene-d8	56.6	*	89 - 112		113%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.8		85 - 114		114%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	150000	5.544				
540-36-3	1,4-Difluorobenzene	270000	6.751				
3114-55-4	Chlorobenzene-d5	241000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	117000	12.006				

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MS	SDG No.:	Q3097
Lab Sample ID:	Q3097-02MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047715.D	1	09/22/25 18:58	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047715.D
Acq On : 22 Sep 2025 18:58
Operator : JC/MD
Sample : Q3097-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 23 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	149702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	270395	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241438	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	116537	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	136329	57.212	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.420%			
35) Dibromofluoromethane	5.379	113	104622	57.693	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 115.380%			
50) Toluene-d8	8.635	98	355310	56.625	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 113.260%#			
62) 4-Bromofluorobenzene	11.061	95	135314	56.821	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	99437	64.145	ug/l	97
3) Chloromethane	1.301	50	121167	59.472	ug/l	98
4) Vinyl Chloride	1.380	62	119871	60.105	ug/l	99
5) Bromomethane	1.611	94	75160	59.431	ug/l	97
6) Chloroethane	1.691	64	74872	56.170	ug/l	98
7) Trichlorofluoromethane	1.892	101	165420	55.862	ug/l	100
8) Diethyl Ether	2.136	74	66928	55.251	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	103354	59.690	ug/l	98
10) Methyl Iodide	2.453	142	147783	54.725	ug/l	99
11) Tert butyl alcohol	2.947	59	74712	281.519	ug/l	99
12) 1,1-Dichloroethene	2.325	96	100429	56.465	ug/l	94
13) Acrolein	2.239	56	73140	299.067	ug/l	99
14) Allyl chloride	2.666	41	192183	52.363	ug/l	97
15) Acrylonitrile	3.056	53	296136	301.252	ug/l	99
16) Acetone	2.373	43	247040	238.436	ug/l	97
17) Carbon Disulfide	2.514	76	280776	57.664	ug/l	99
18) Methyl Acetate	2.703	43	129577	56.196	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	363711	56.018	ug/l	98
20) Methylene Chloride	2.788	84	121271	55.296	ug/l	99
21) trans-1,2-Dichloroethene	3.093	96	108564	56.694	ug/l	95
22) Diisopropyl ether	3.751	45	393686	55.347	ug/l #	84
23) Vinyl Acetate	3.715	43	1552184	272.655	ug/l	99
24) 1,1-Dichloroethane	3.611	63	210842	55.769	ug/l	99
25) 2-Butanone	4.544	43	372626	288.325	ug/l	100
26) 2,2-Dichloropropane	4.471	77	139487	44.385	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	132021	56.296	ug/l	96
28) Bromochloromethane	4.891	49	102352	62.013	ug/l	100
29) Tetrahydrofuran	4.995	42	251898	323.998	ug/l	100
30) Chloroform	5.080	83	211676	55.407	ug/l	98
31) Cyclohexane	5.464	56	166612	52.913	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	176354	54.421	ug/l	99
36) 1,1-Dichloropropene	5.684	75	138105	52.118	ug/l	98
37) Ethyl Acetate	4.696	43	147529	51.998	ug/l	99
38) Carbon Tetrachloride	5.666	117	150271	52.194	ug/l	98
39) Methylcyclohexane	7.367	83	153865	51.153	ug/l	97
40) Benzene	6.025	78	441675	54.879	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047715.D
Acq On : 22 Sep 2025 18:58
Operator : JC/MD
Sample : Q3097-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 23 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	83638	57.102	ug/l	98
42) 1,2-Dichloroethane	6.074	62	164680	53.778	ug/l	100
43) Isopropyl Acetate	6.324	43	248562	53.417	ug/l	99
44) Trichloroethene	7.110	130	676102	347.474	ug/l	95
45) 1,2-Dichloropropane	7.415	63	111385	54.048	ug/l	99
46) Dibromomethane	7.568	93	81291	54.206	ug/l	98
47) Bromodichloromethane	7.805	83	165717	53.549	ug/l	95
48) Methyl methacrylate	7.677	41	128265	55.339	ug/l	98
49) 1,4-Dioxane	7.647	88	32109	1370.775	ug/l	98
51) 4-Methyl-2-Pentanone	8.561	43	741126	287.265	ug/l	100
52) Toluene	8.702	92	265691	53.583	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	167635	53.106	ug/l	99
54) cis-1,3-Dichloropropene	8.354	75	176915	52.436	ug/l	99
55) 1,1,2-Trichloroethane	9.134	97	104411	54.609	ug/l	99
56) Ethyl methacrylate	9.104	69	170443	56.764	ug/l	97
57) 1,3-Dichloropropane	9.293	76	182893	55.685	ug/l	99
59) 2-Hexanone	9.415	43	516181	278.577	ug/l	98
60) Dibromochloromethane	9.506	129	122647	55.672	ug/l	99
61) 1,2-Dibromoethane	9.592	107	110705	56.847	ug/l	100
64) Tetrachloroethene	9.256	164	82663	52.520	ug/l	97
65) Chlorobenzene	10.061	112	295700	53.911	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.147	131	103240	54.546	ug/l	99
67) Ethyl Benzene	10.177	91	498788	52.704	ug/l	100
68) m/p-Xylenes	10.287	106	376275	106.818	ug/l	99
69) o-Xylene	10.628	106	183279	53.793	ug/l	99
70) Styrene	10.640	104	320866	53.747	ug/l	99
71) Bromoform	10.781	173	77485	54.826	ug/l	98
73) Isopropylbenzene	10.945	105	462634	52.217	ug/l	100
74) N-amyl acetate	10.829	43	210910	52.202	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	148503	55.400	ug/l	100
76) 1,2,3-Trichloropropane	11.226	75	113686m	48.182	ug/l	
77) Bromobenzene	11.183	156	116912	53.577	ug/l	98
78) n-propylbenzene	11.287	91	542797	51.826	ug/l	99
79) 2-Chlorotoluene	11.348	91	332315	51.805	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	377938	51.921	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	46664	50.434	ug/l	100
82) 4-Chlorotoluene	11.439	91	393591	51.951	ug/l	99
83) tert-Butylbenzene	11.695	119	383158	51.420	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	384015	52.035	ug/l	100
85) sec-Butylbenzene	11.872	105	455269	51.437	ug/l	100
86) p-Isopropyltoluene	11.994	119	382834	51.091	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	209966	51.804	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	212167	51.003	ug/l	99
89) n-Butylbenzene	12.317	91	348901	50.321	ug/l	99
90) Hexachloroethane	12.518	117	67085	50.993	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	204964	53.080	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	29122	53.660	ug/l	94
93) 1,2,4-Trichlorobenzene	13.567	180	127943	50.982	ug/l	99
94) Hexachlorobutadiene	13.707	225	38825	45.547	ug/l	98
95) Naphthalene	13.756	128	410695	53.743	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	118190	50.629	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047715.D
Acq On : 22 Sep 2025 18:58
Operator : JC/MD
Sample : Q3097-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 23 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations APPROVED

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047715.D
Acq On : 22 Sep 2025 18:58
Operator : JC/MD
Sample : Q3097-02MS
Misc : 5.0mL/MSVOA_X/WATER
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Quant Time: Sep 23 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
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Instrument :
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ClientSampleId :
RE103D2-20250911MS

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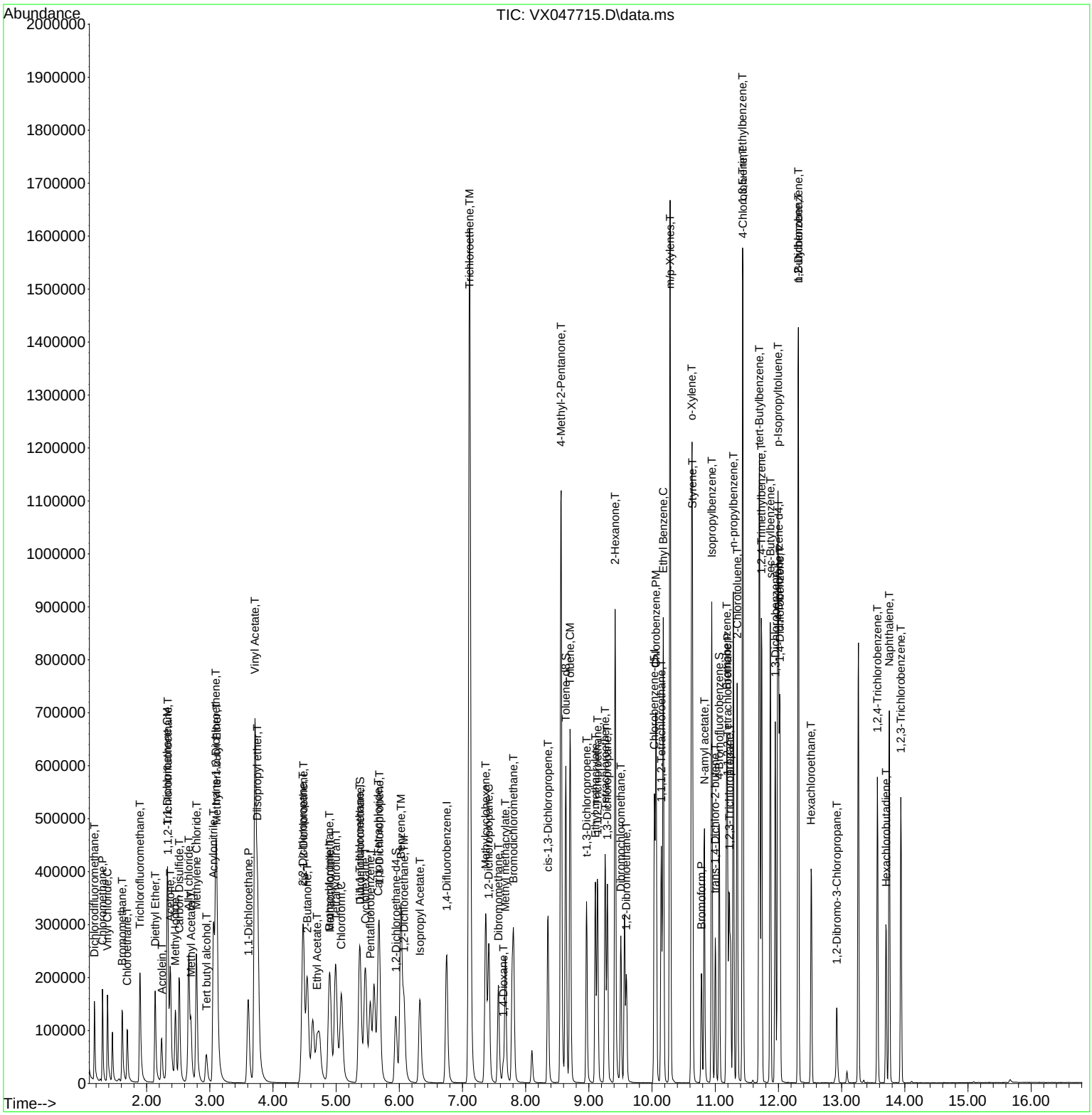
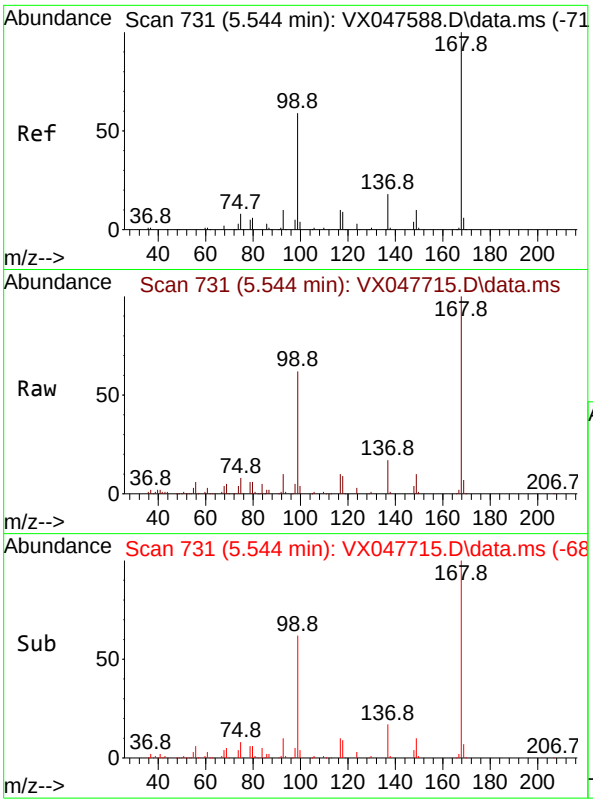
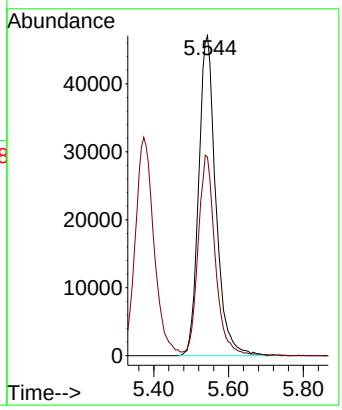




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:168 Resp: 14970

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
APPROVED

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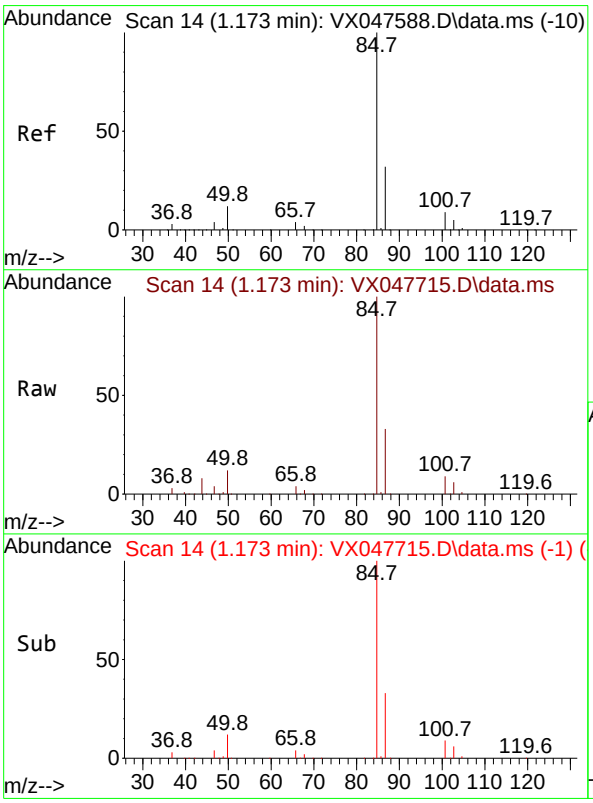
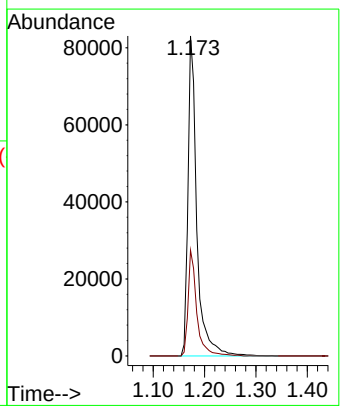
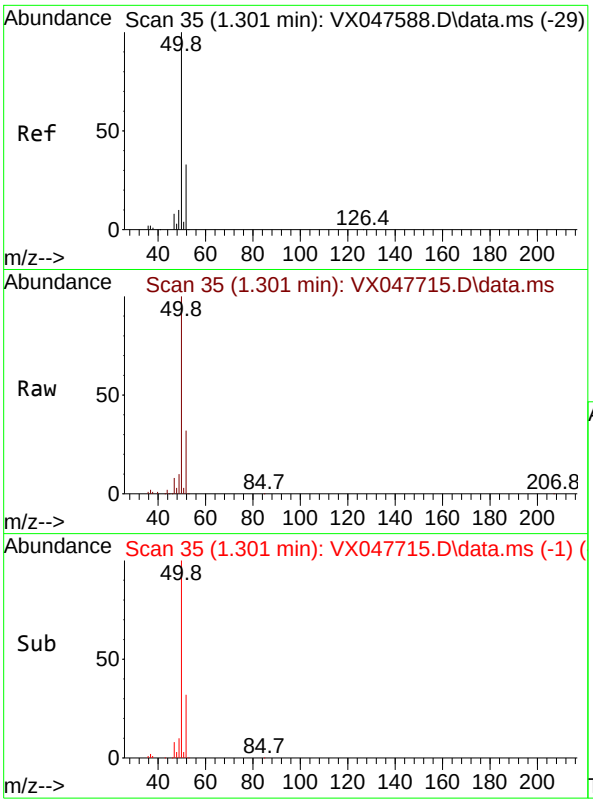


#2
Dichlorodifluoromethane
Concen: 64.145 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 85 Resp: 99437

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.8	47.3

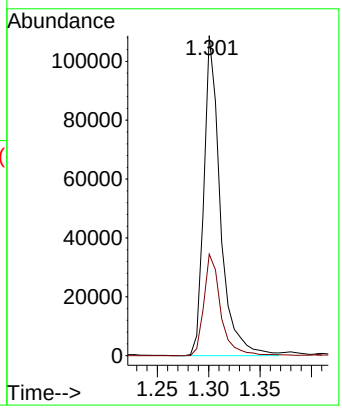




#3
Chloromethane
Concen: 59.472 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 50 Resp: 12116

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
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Reviewed By :John Carlone 09/23/2025
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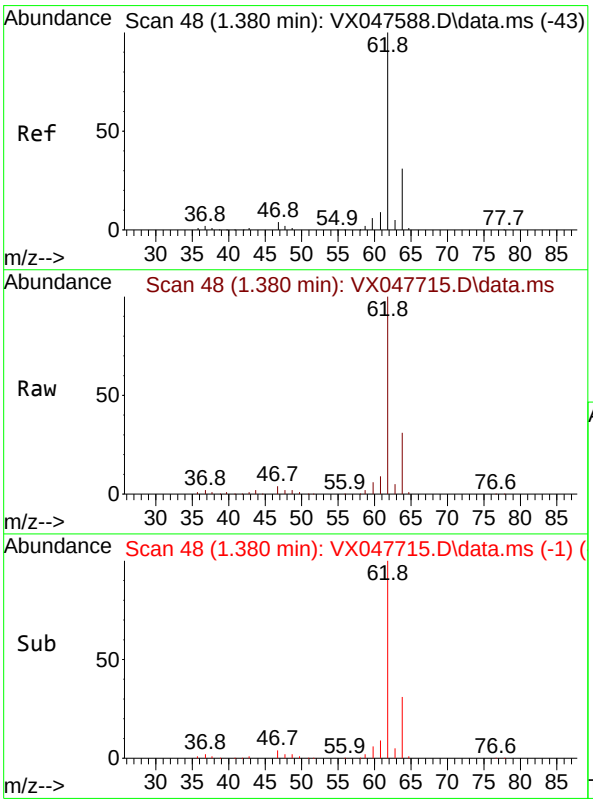
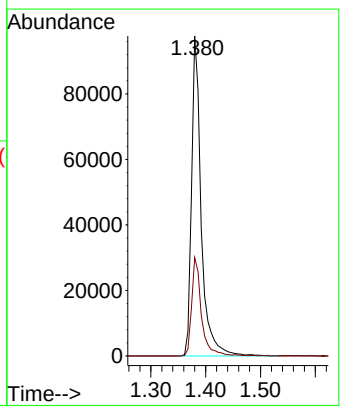
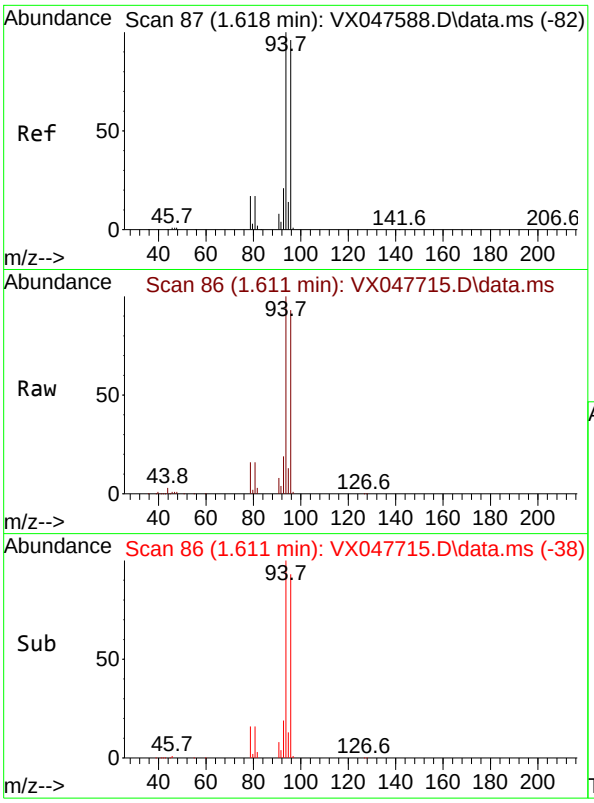


#4
Vinyl Chloride
Concen: 60.105 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 62 Resp: 119871

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.9	37.3

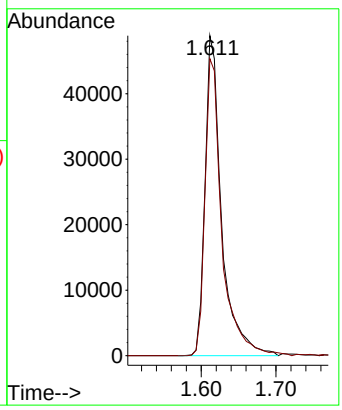




#5
Bromomethane
Concen: 59.431 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 94 Resp: 7516

Ion	Ratio	Lower	Upper
94	100		
96	92.8	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
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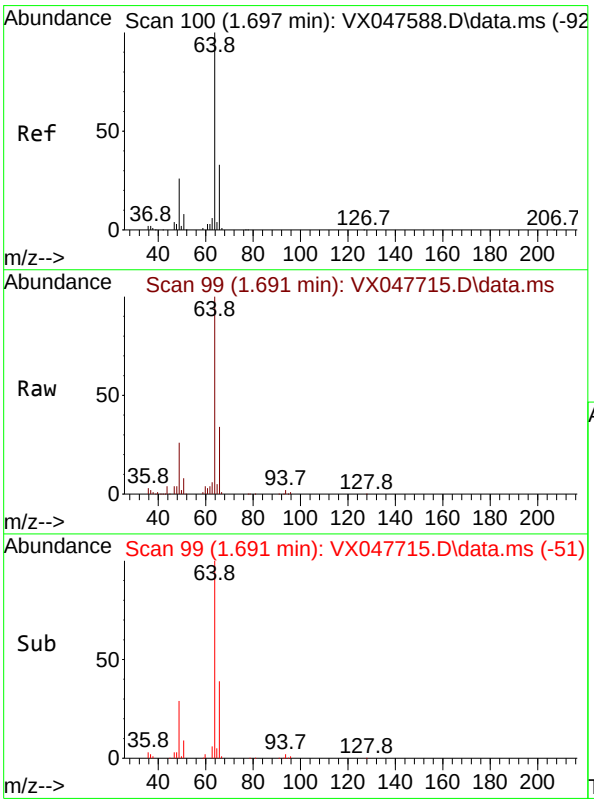
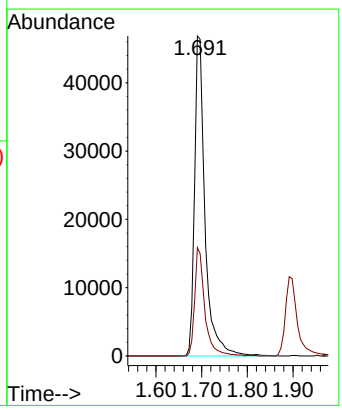
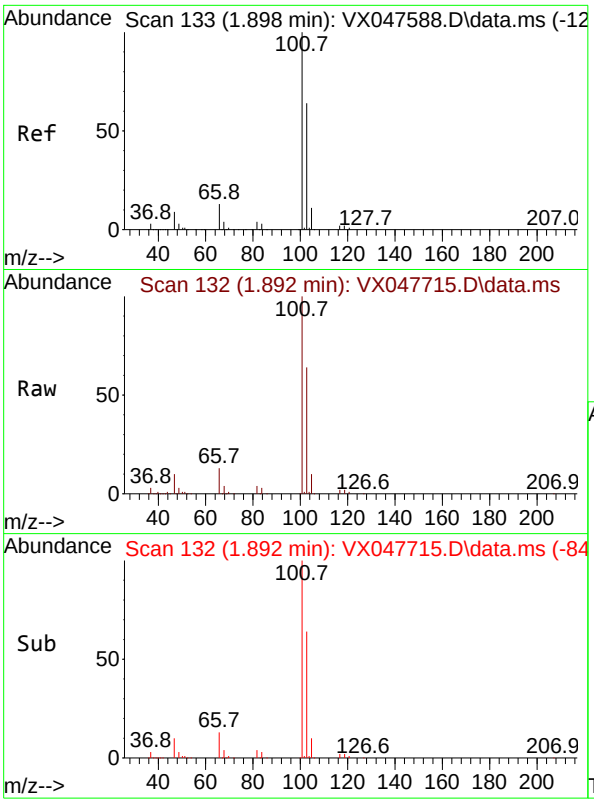


#6
Chloroethane
Concen: 56.170 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 64 Resp: 74872

Ion	Ratio	Lower	Upper
64	100		
66	33.8	26.1	39.1

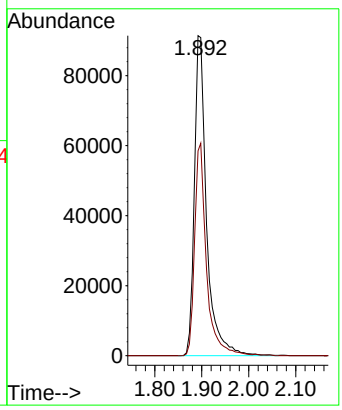




#7
Trichlorofluoromethane
Concen: 55.862 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:101 Resp: 16542

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

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APPROVED

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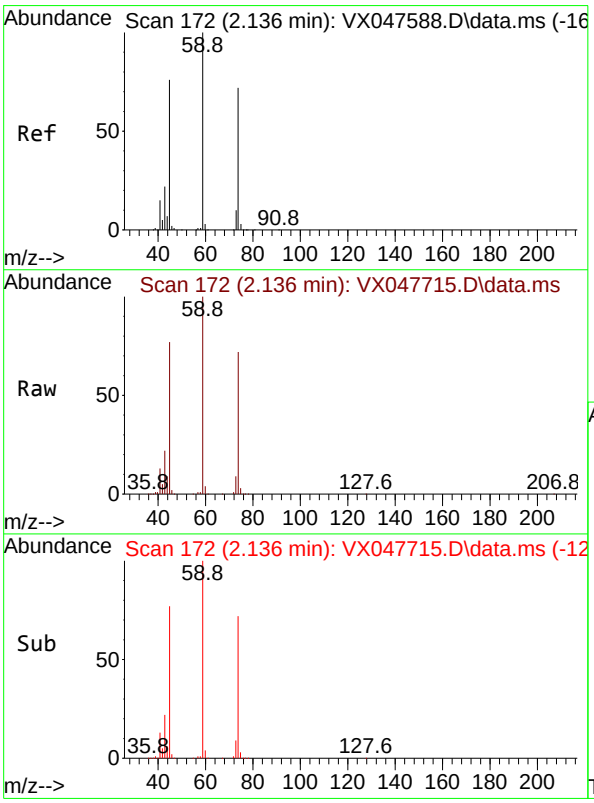
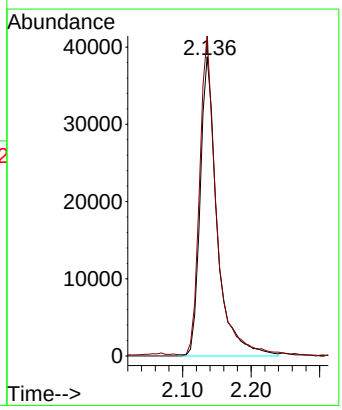
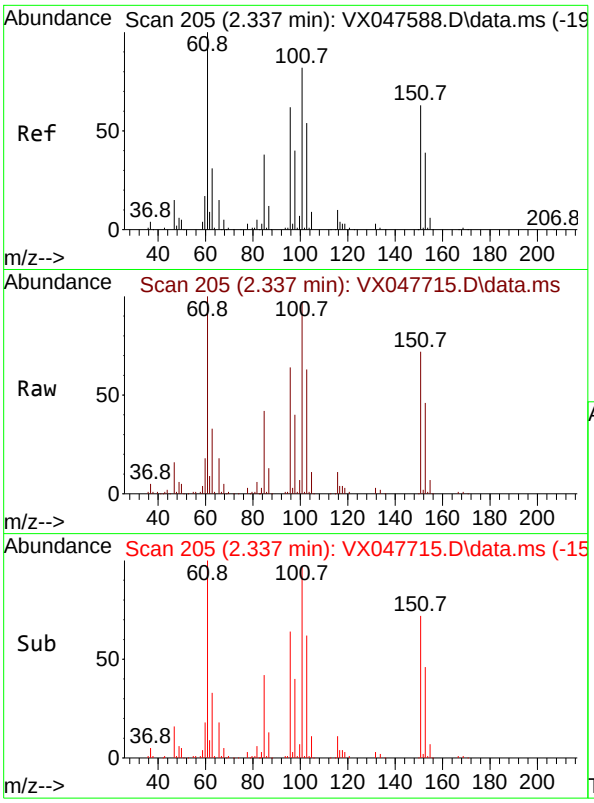


#8
Diethyl Ether
Concen: 55.251 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 74 Resp: 66928

Ion	Ratio	Lower	Upper
74	100		
45	108.0	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 59.690 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:101 Resp: 10335

Ion	Ratio	Lower	Upper
101	100		
85	43.3	35.5	53.3
151	72.2	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
APPROVED

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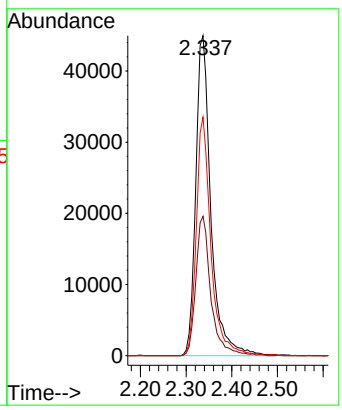
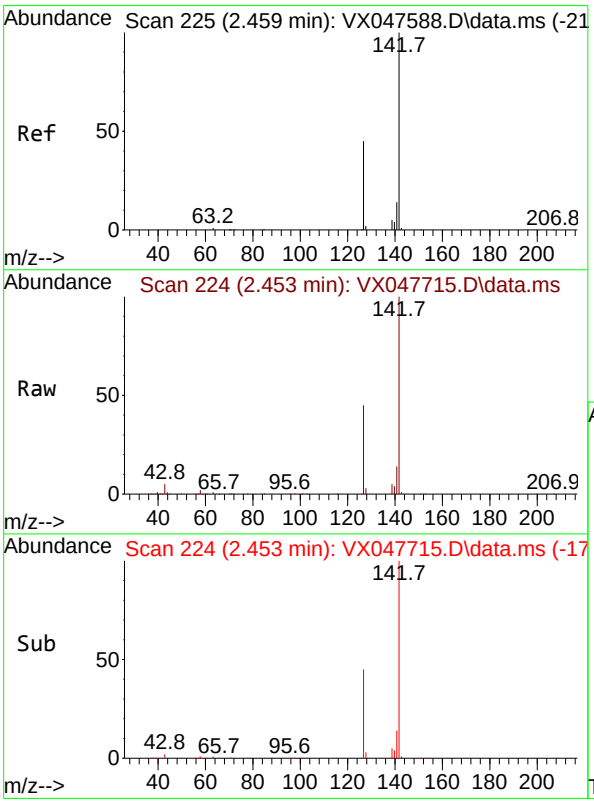
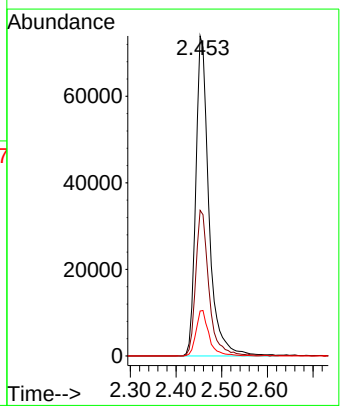


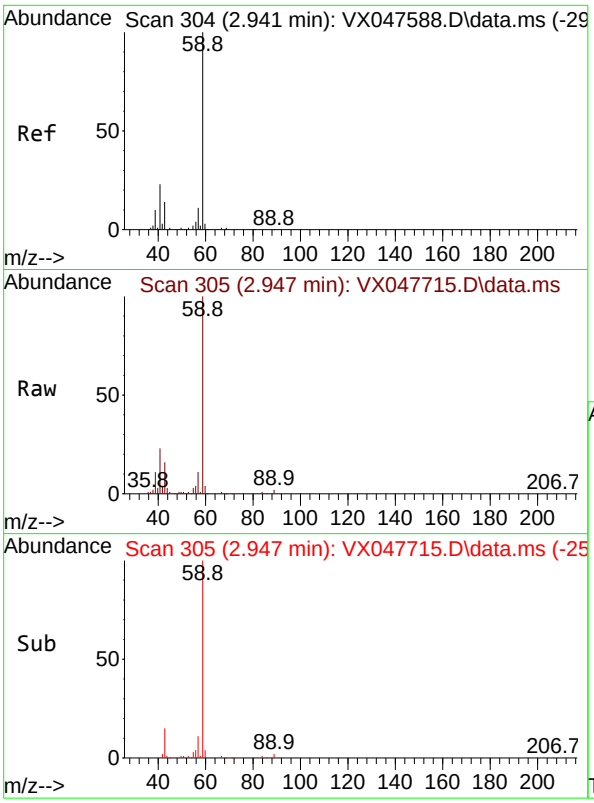


#10
Methyl Iodide
Concen: 54.725 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:142 Resp: 147783

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.2	55.8
141	14.0	11.4	17.0

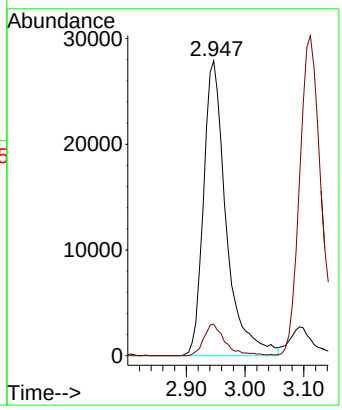




#11
Tert butyl alcohol
Concen: 281.519 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 59 Resp: 7471

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
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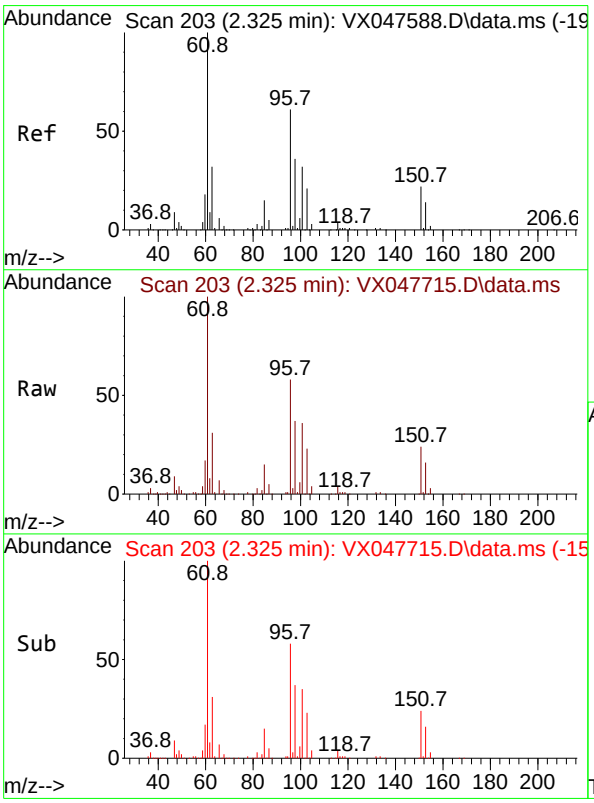
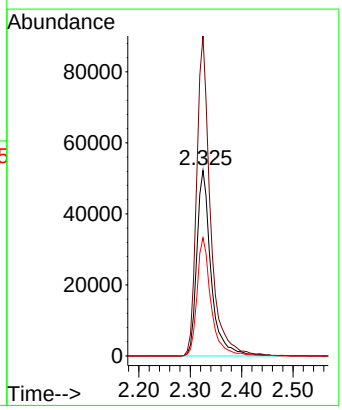
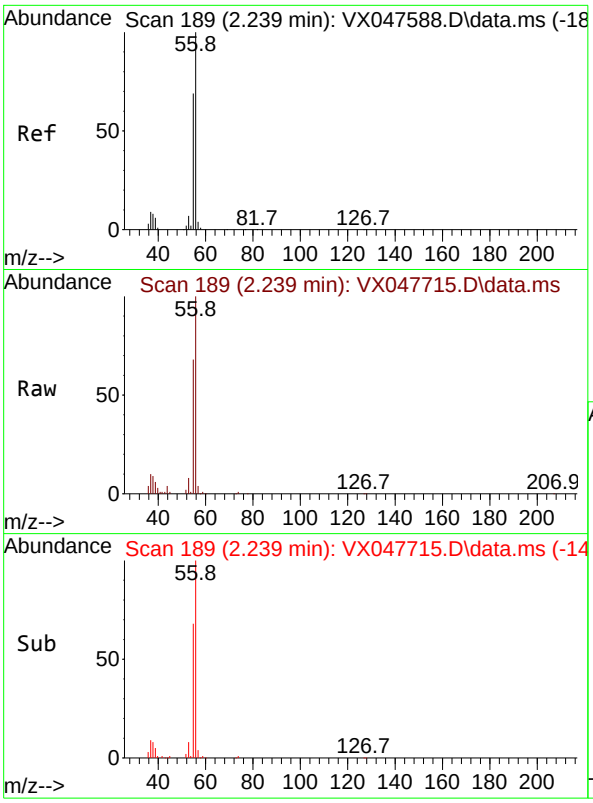


#12
1,1-Dichloroethene
Concen: 56.465 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 96 Resp: 100429

Ion	Ratio	Lower	Upper
96	100		
61	172.3	131.0	196.6
98	63.7	47.7	71.5





#13
Acrolein
Concen: 299.067 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 56 Resp: 7314

Ion	Ratio	Lower	Upper
56	100		
55	71.0	57.2	85.8

Instrument :
MSVOA_X
ClientSampleId :
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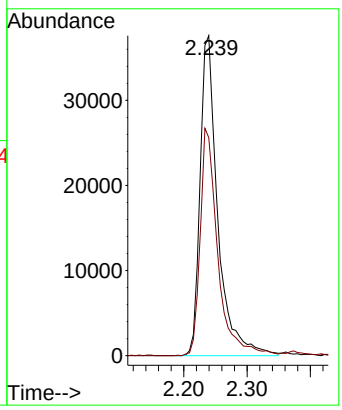
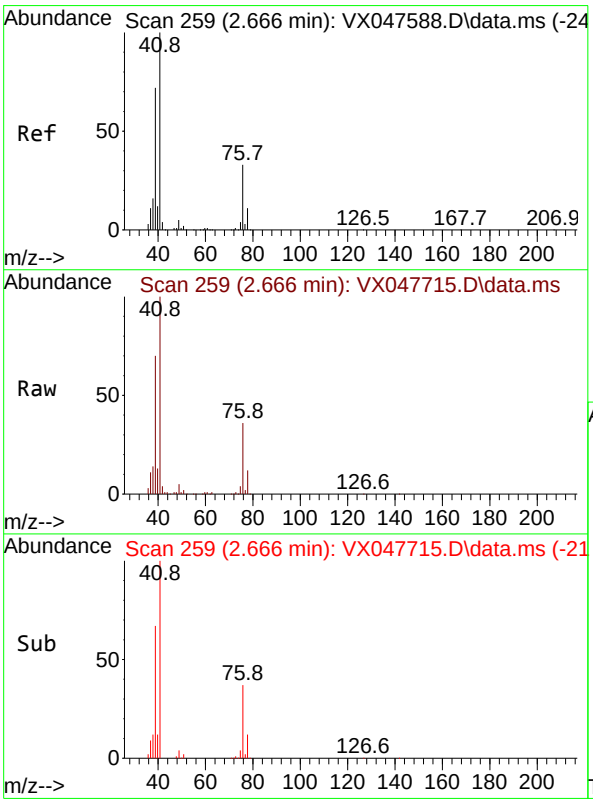
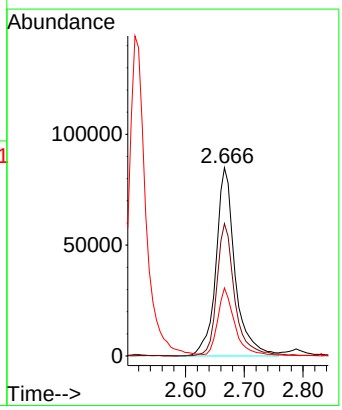


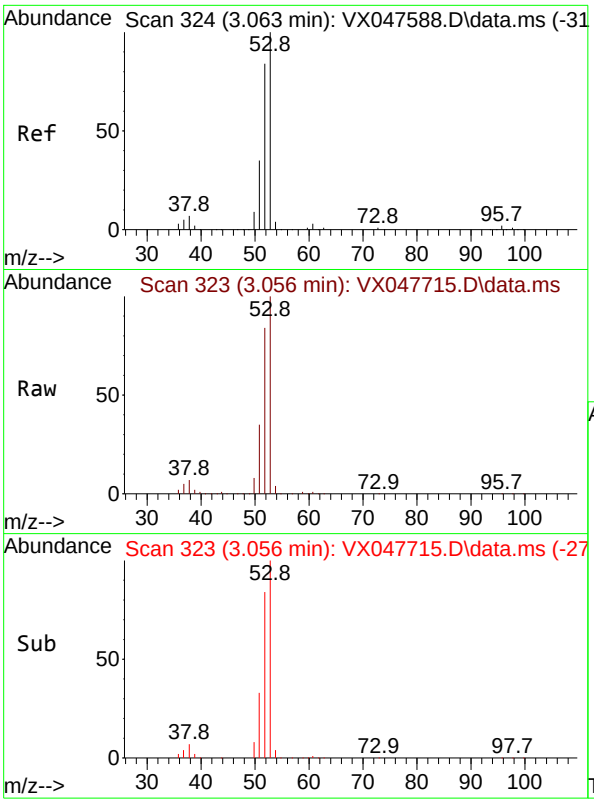


#14
Allyl chloride
Concen: 52.363 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 41 Resp: 192183

Ion	Ratio	Lower	Upper
41	100		
39	65.3	54.7	82.1
76	32.2	25.7	38.5

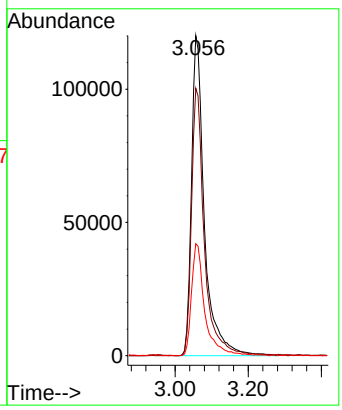




#15
Acrylonitrile
Concen: 301.252 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 53 Resp: 29613

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.4	99.6
51	35.9	29.5	44.3



Instrument :
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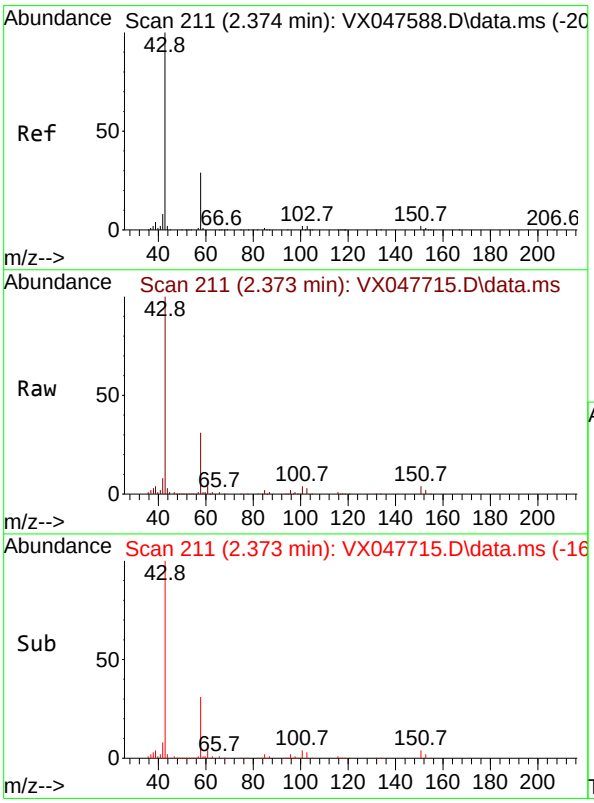
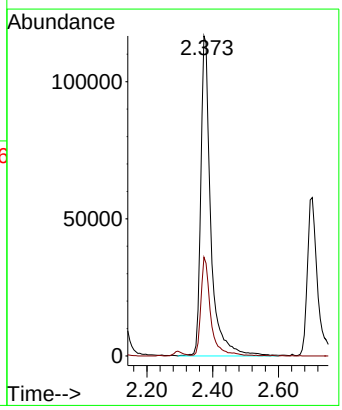
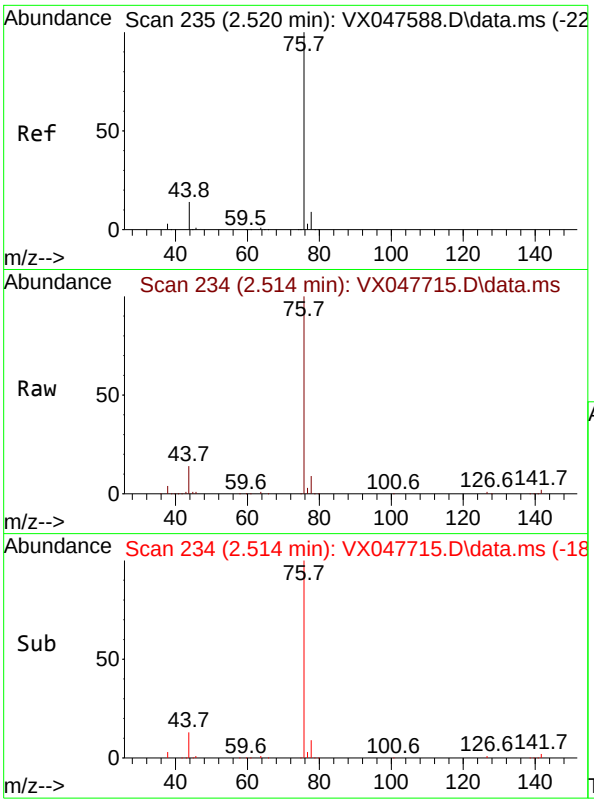


#16
Acetone
Concen: 238.436 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 247040

Ion	Ratio	Lower	Upper
43	100		
58	30.9	23.4	35.0

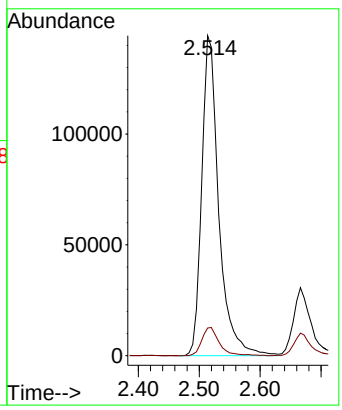




#17
Carbon Disulfide
Concen: 57.664 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 76 Resp: 28077

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.8	10.2



Instrument :
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ClientSampleId :
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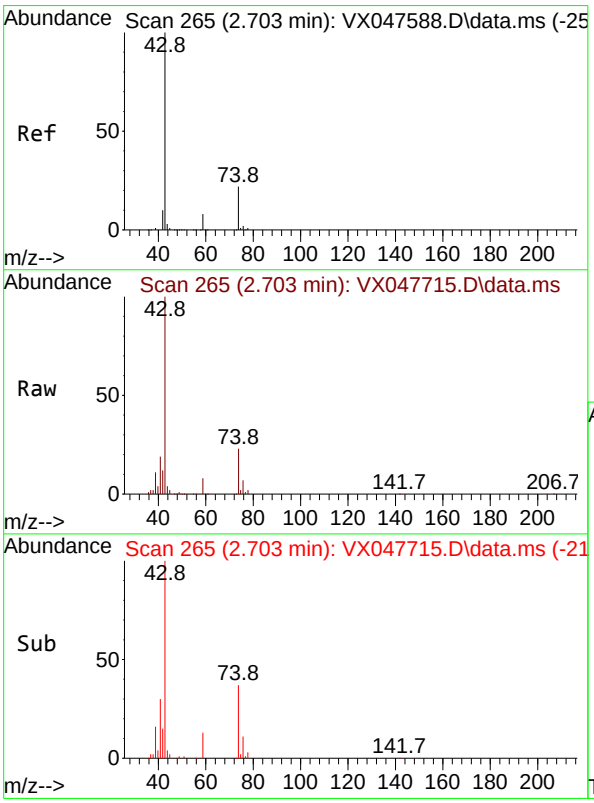
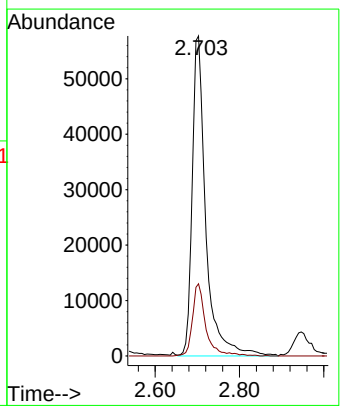
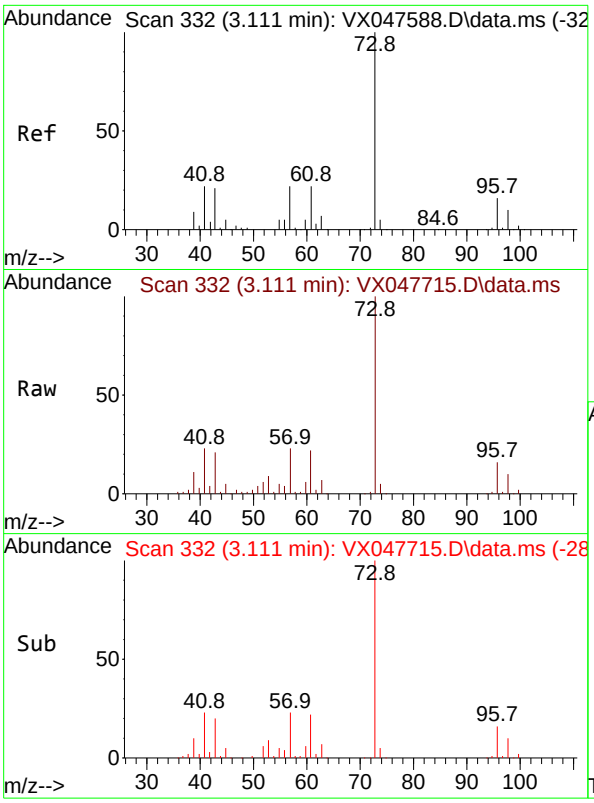


#18
Methyl Acetate
Concen: 56.196 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 129577

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2

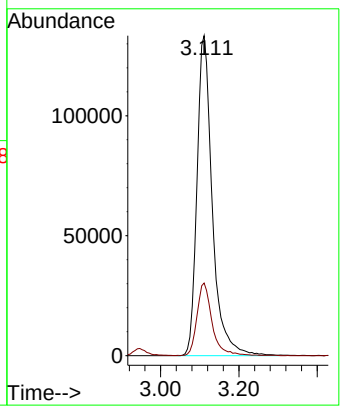




#19
Methyl tert-butyl Ether
Concen: 56.018 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 73 Resp: 36371

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
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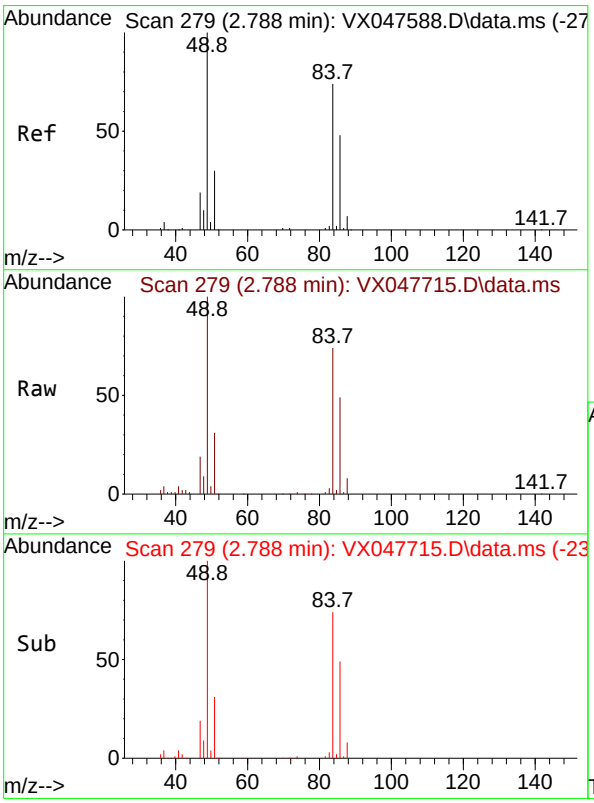
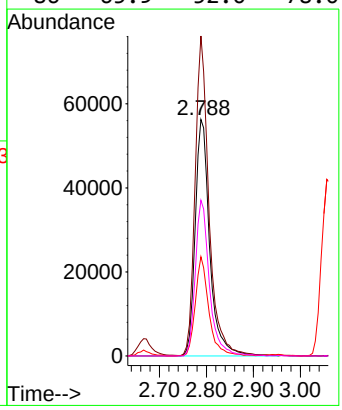
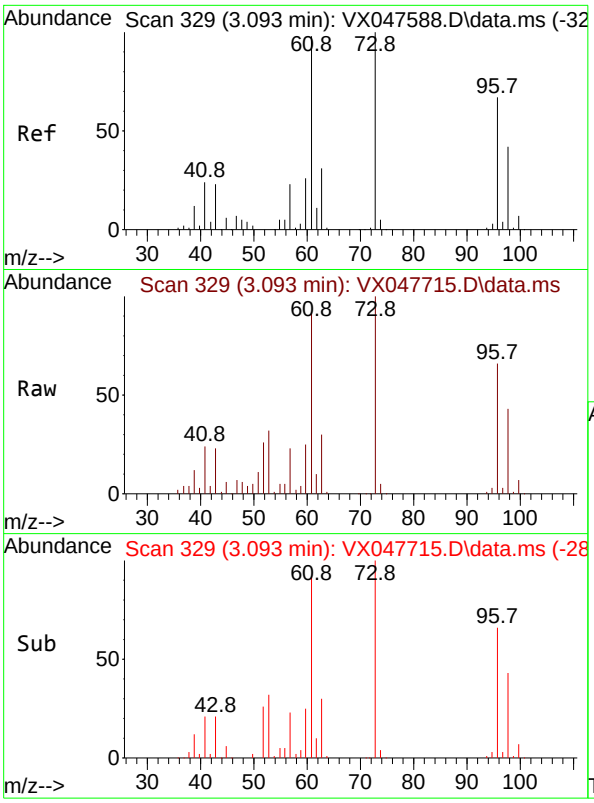


#20
Methylene Chloride
Concen: 55.296 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 84 Resp: 121271

Ion	Ratio	Lower	Upper
84	100		
49	135.1	108.6	162.8
51	41.8	32.6	48.8
86	65.9	52.0	78.0

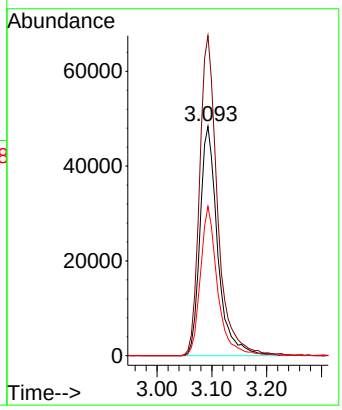




#21
trans-1,2-Dichloroethene
Concen: 56.694 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 96 Resp: 10856

Ion	Ratio	Lower	Upper
96	100		
61	139.6	116.2	174.2
98	65.1	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
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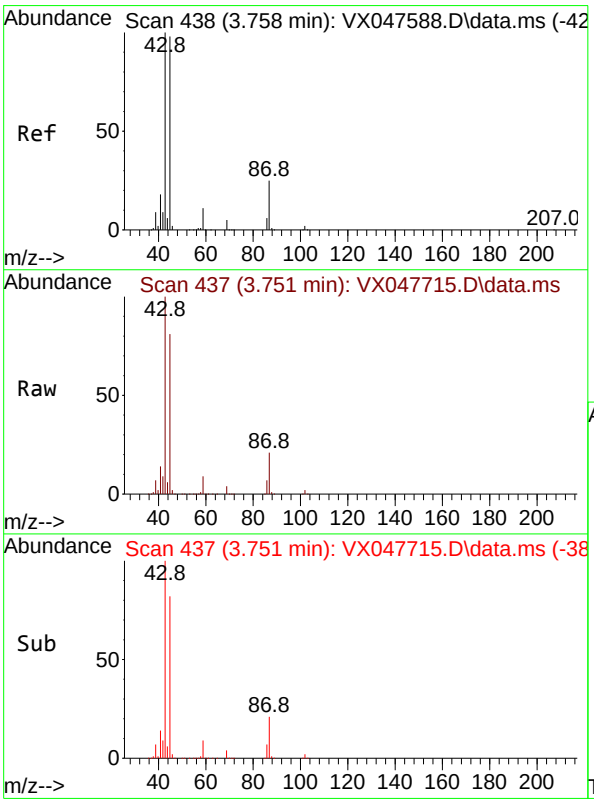
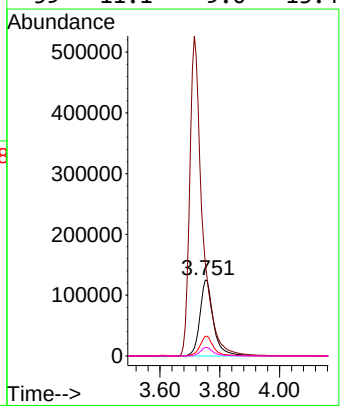
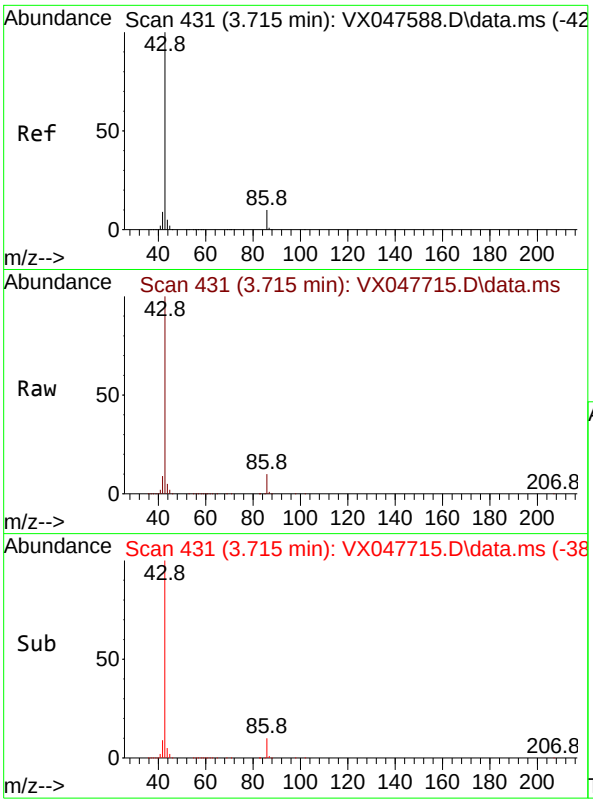


#22
Diisopropyl ether
Concen: 55.347 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 45 Resp: 393686

Ion	Ratio	Lower	Upper
45	100		
43	122.3	81.0	121.4#
87	25.9	20.3	30.5
59	11.1	9.0	13.4

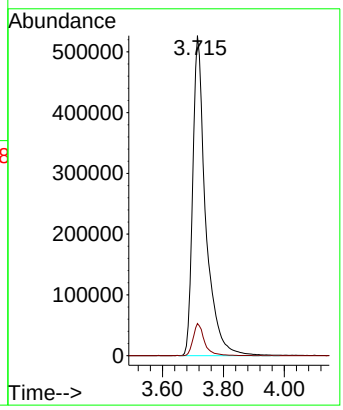




#23
Vinyl Acetate
Concen: 272.655 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 155218

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

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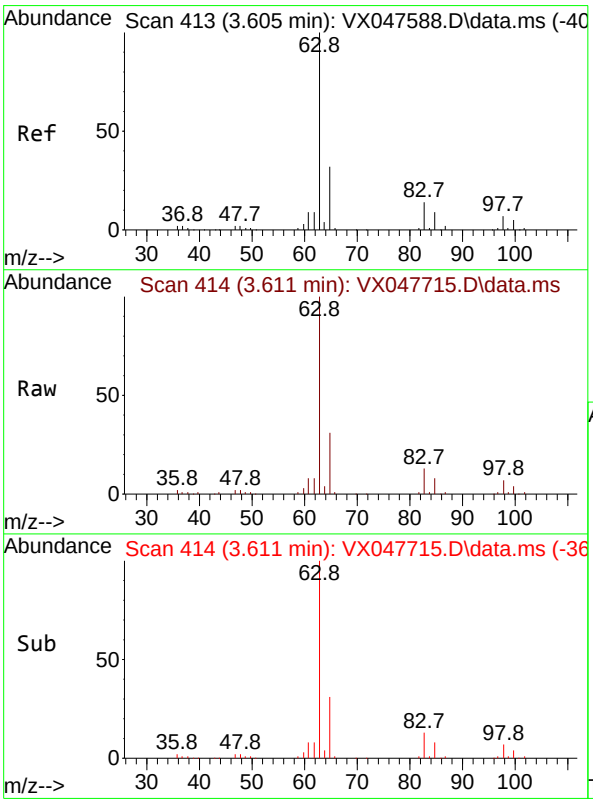
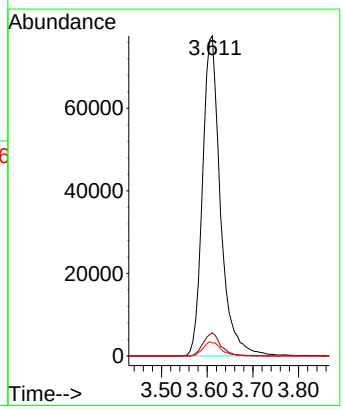
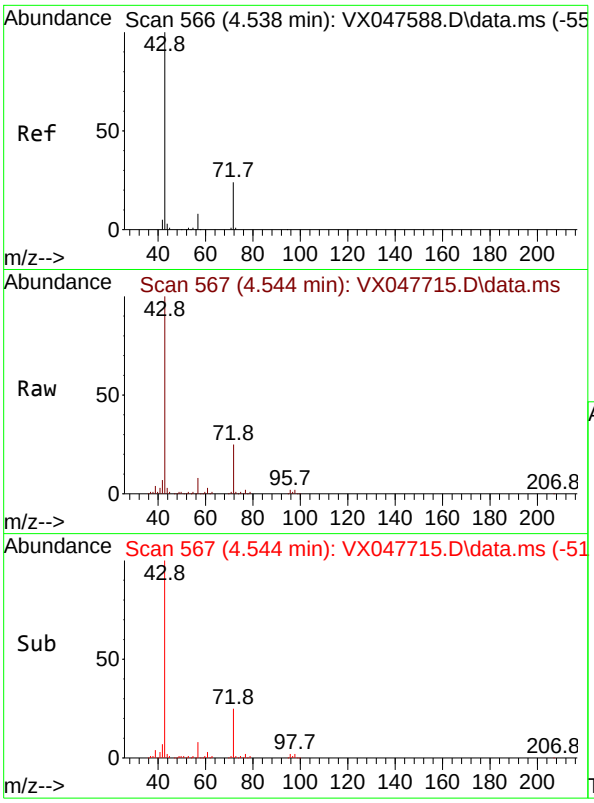


#24
1,1-Dichloroethane
Concen: 55.769 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 63 Resp: 210842

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.1	2.3	6.9





#25
2-Butanone
Concen: 288.325 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 37262

Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
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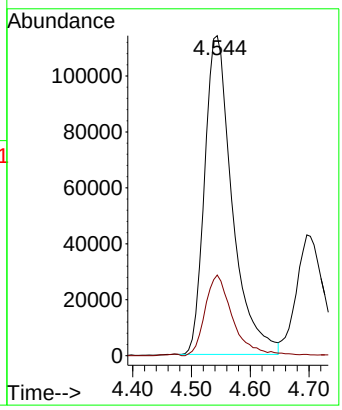
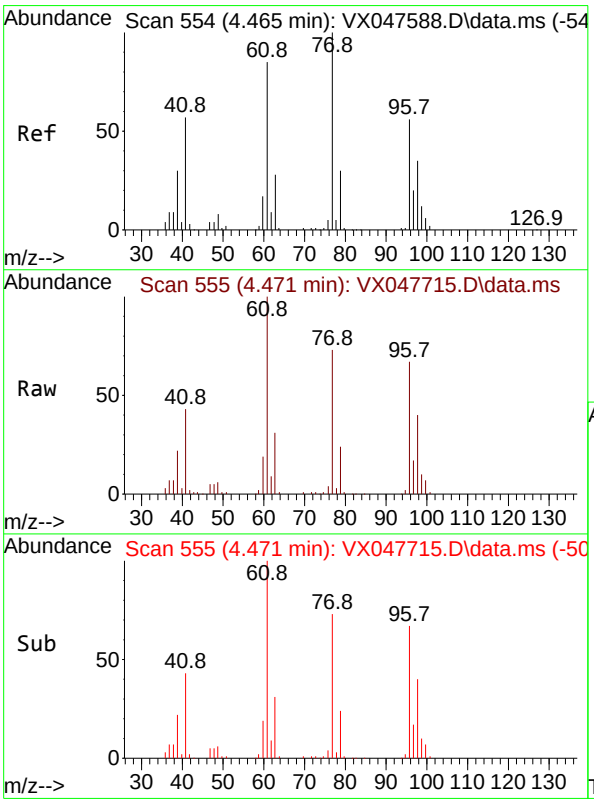
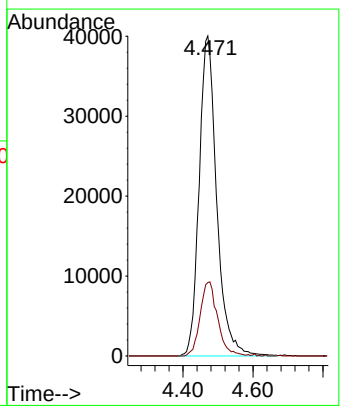


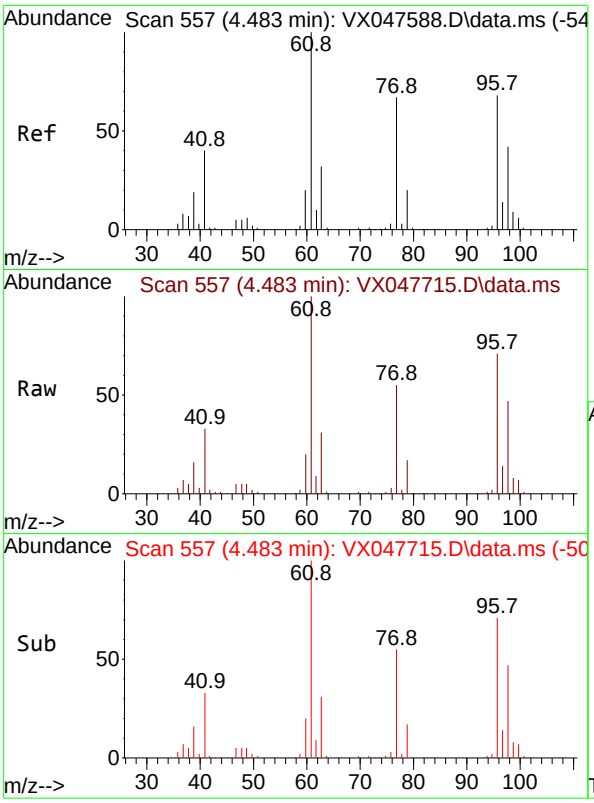


#26
2,2-Dichloropropane
Concen: 44.385 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 77 Resp: 139487

Ion	Ratio	Lower	Upper
77	100		
97	23.0	10.9	32.7

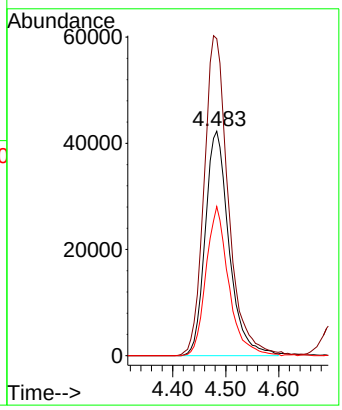




#27
cis-1,2-Dichloroethene
Concen: 56.296 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 96 Resp: 13202

Ion	Ratio	Lower	Upper
96	100		
61	145.2	0.0	303.2
98	63.4	0.0	127.8



Instrument :
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ClientSampleId :
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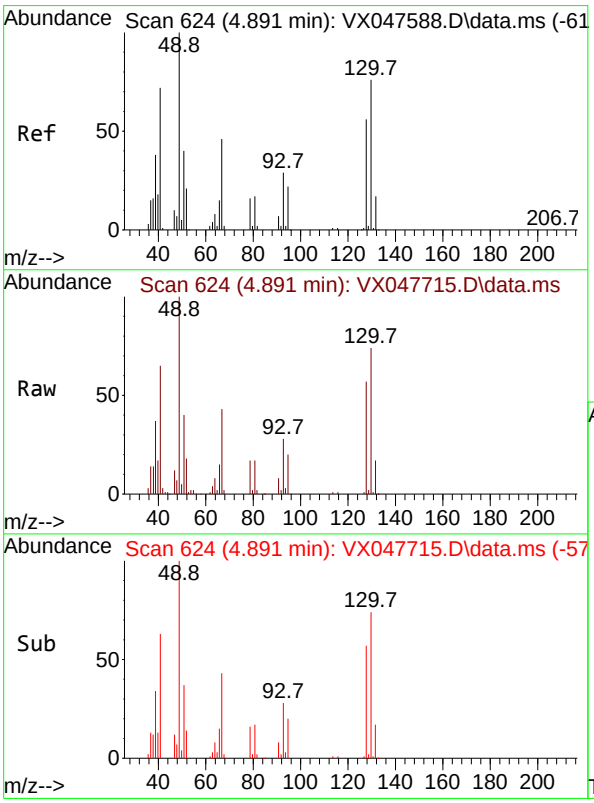
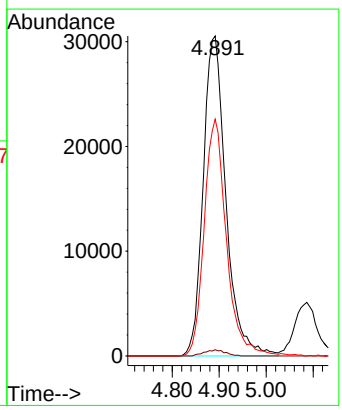
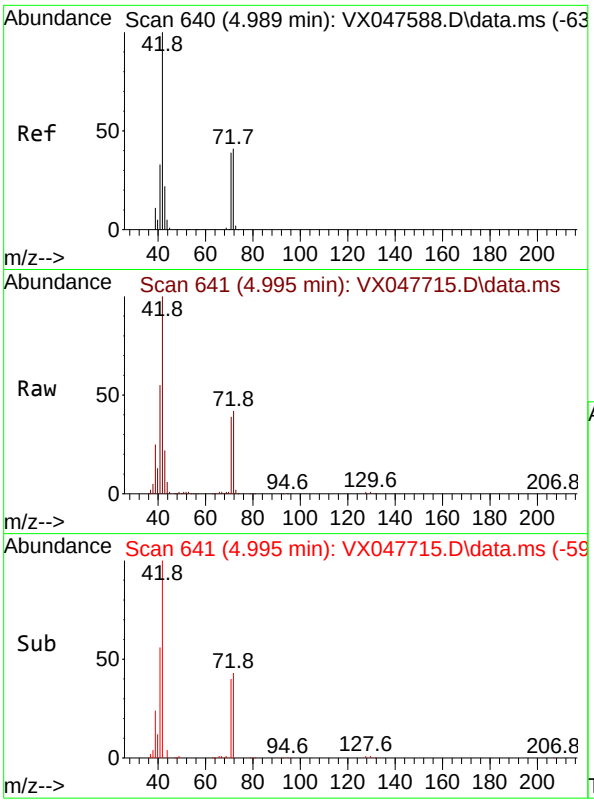


#28
Bromochloromethane
Concen: 62.013 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 49 Resp: 102352

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.3	57.8	86.8

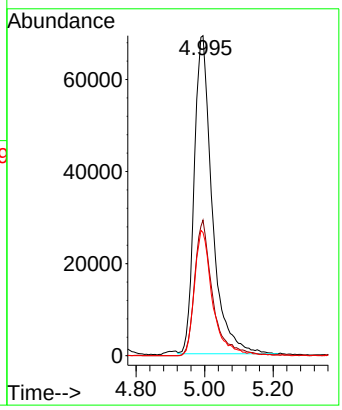




#29
Tetrahydrofuran
Concen: 323.998 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 42 Resp: 25189

Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.2	51.2
71	39.9	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
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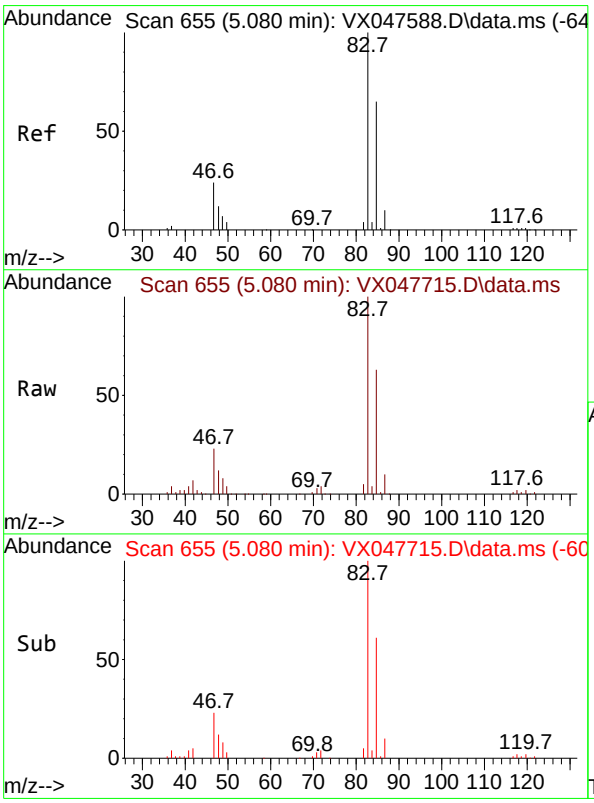
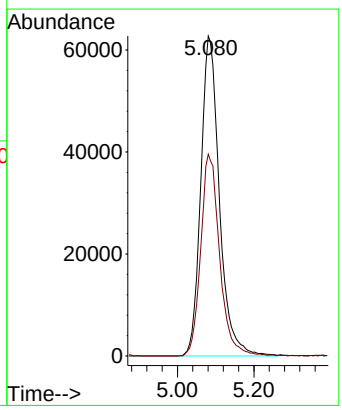
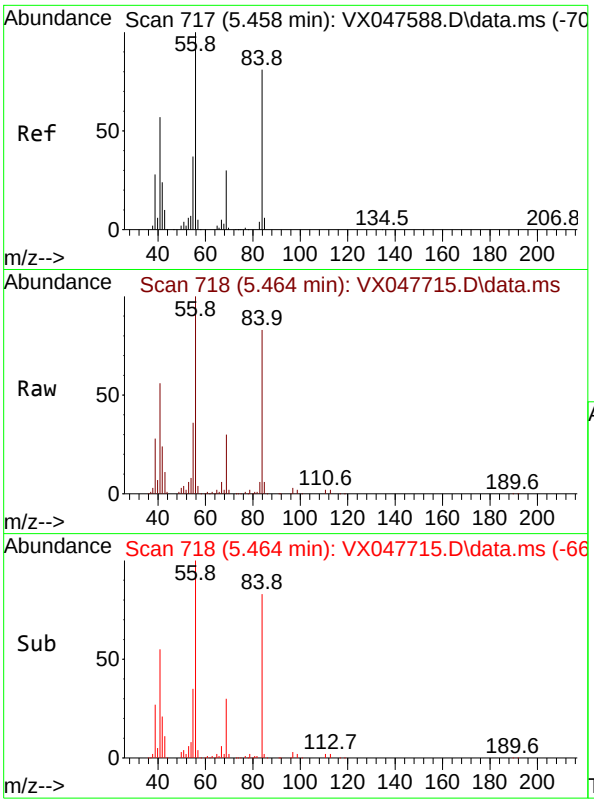


#30
Chloroform
Concen: 55.407 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 83 Resp: 211676

Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.8	77.6

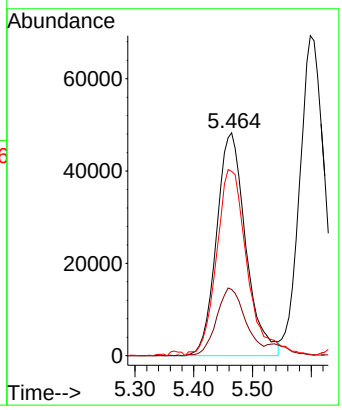




#31
Cyclohexane
Concen: 52.913 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 56 Resp: 16661

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.8	35.8
84	81.1	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

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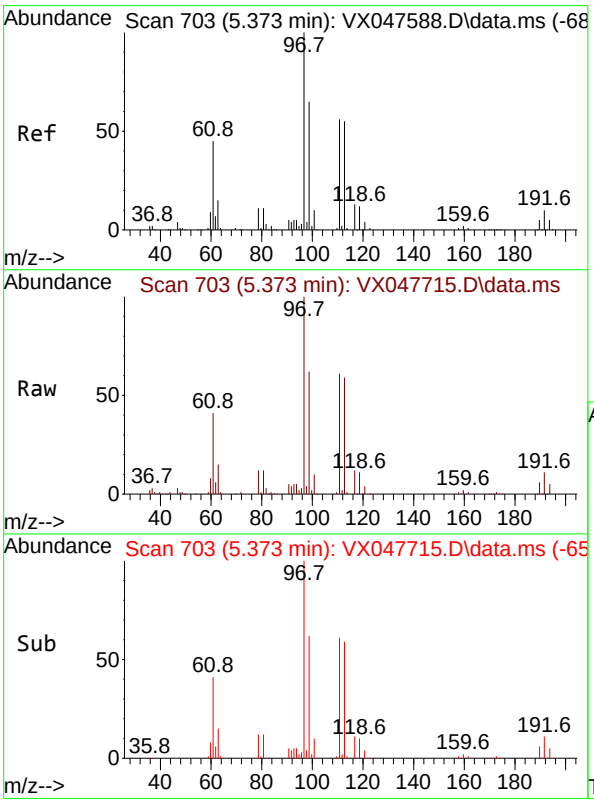
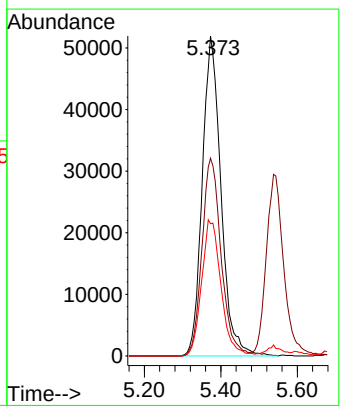
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

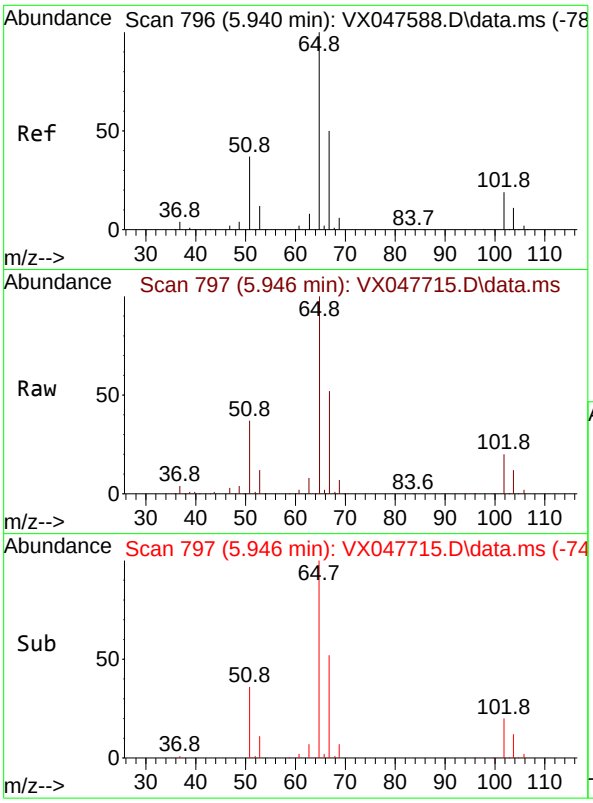


#32
1,1,1-Trichloroethane
Concen: 54.421 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 97 Resp: 176354

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.6	76.0
61	44.0	35.8	53.8

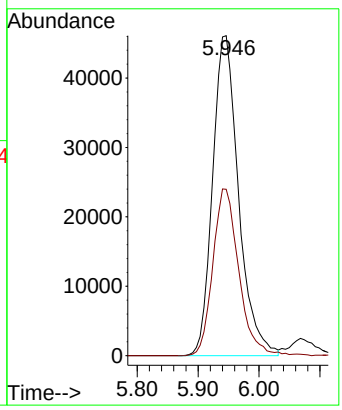




#33
1,2-Dichloroethane-d4
Concen: 57.212 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 65 Resp: 13632

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0



Instrument :
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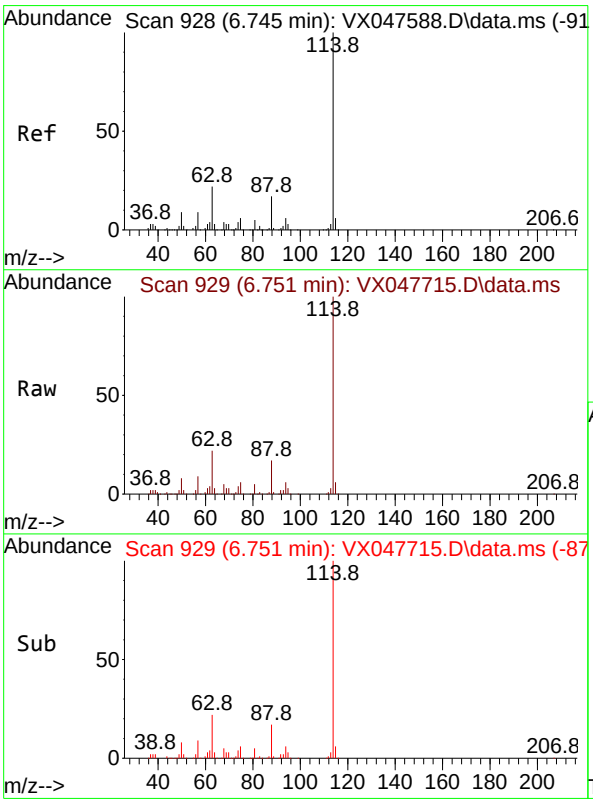
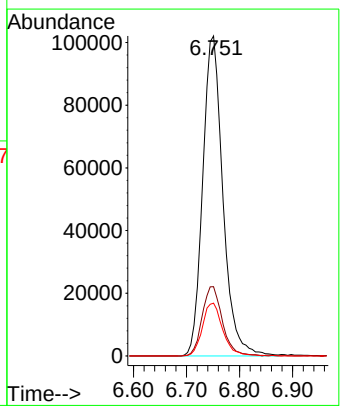
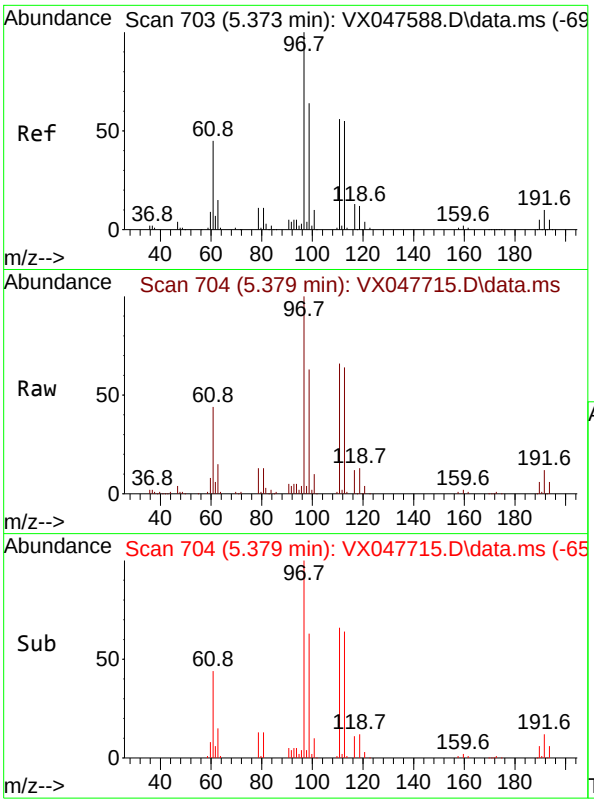


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:114 Resp: 270395

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	44.0
88	16.5	0.0	34.2

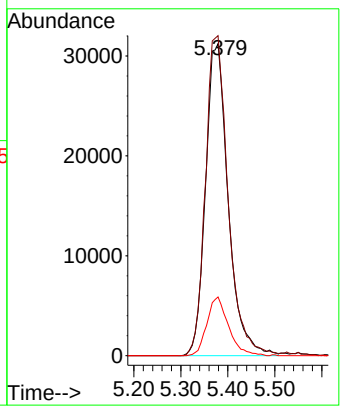




#35
Dibromofluoromethane
Concen: 57.693 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:113 Resp: 10462

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	18.0	14.2	21.4



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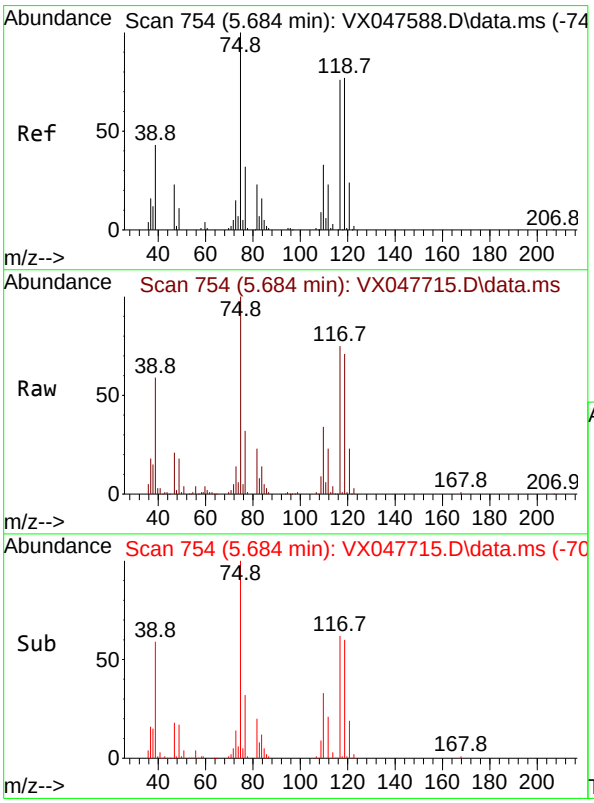
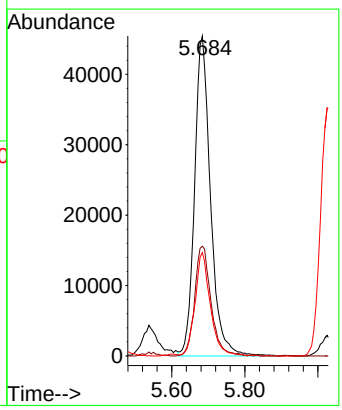
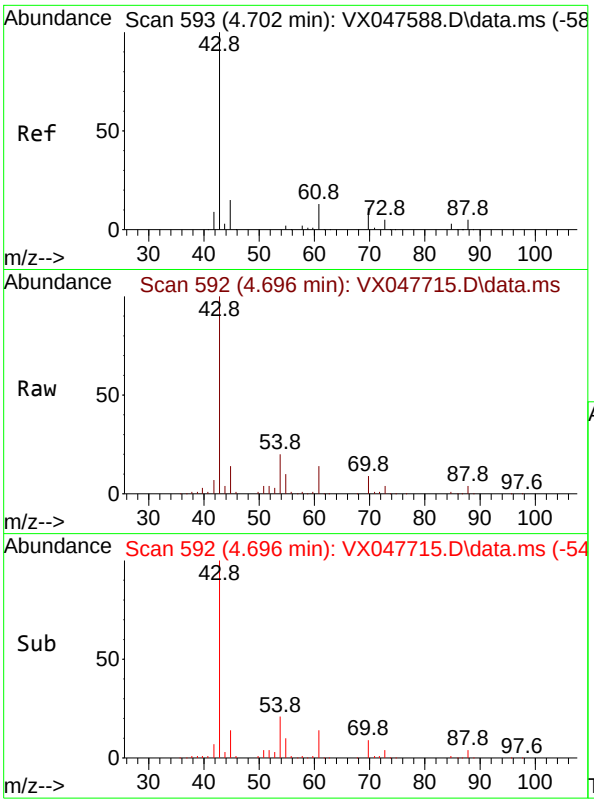


#36
1,1-Dichloropropene
Concen: 52.118 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 75 Resp: 138105

Ion	Ratio	Lower	Upper
75	100		
110	35.2	16.7	50.1
77	31.0	24.3	36.5

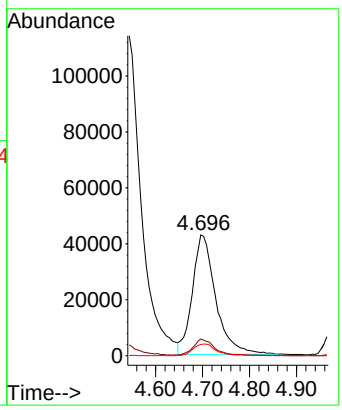




#37
Ethyl Acetate
Concen: 51.998 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 14752

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	9.4	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
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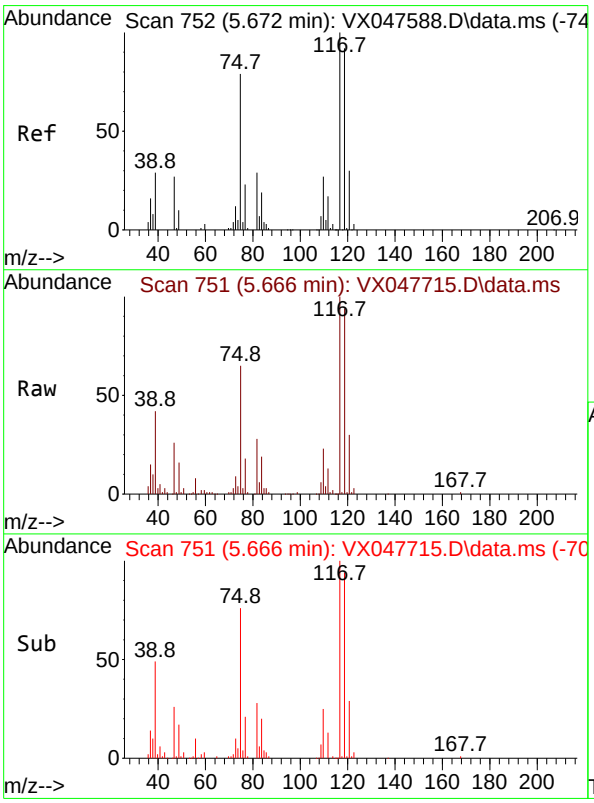
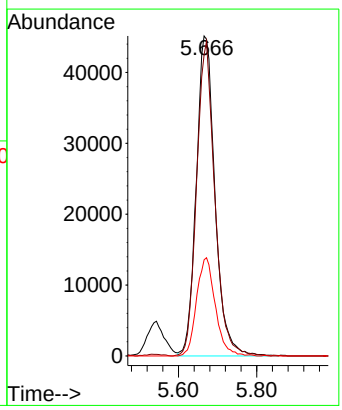
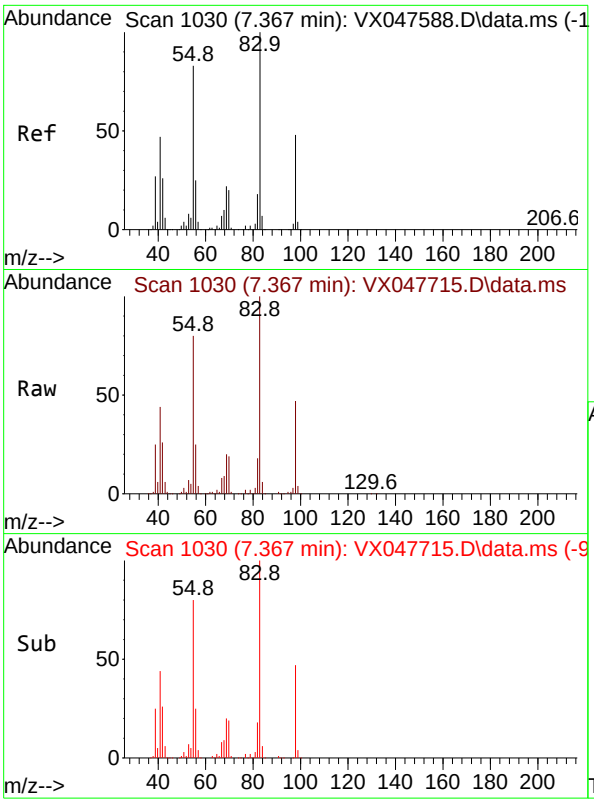


#38
Carbon Tetrachloride
Concen: 52.194 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:117 Resp: 150271

Ion	Ratio	Lower	Upper
117	100		
119	94.0	73.4	110.2
121	30.0	23.8	35.6

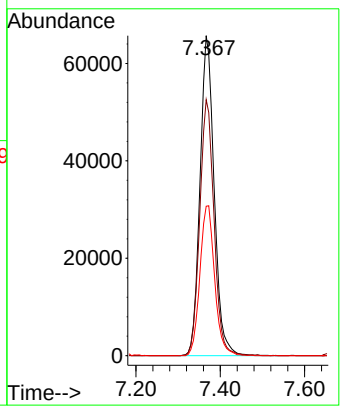




#39
Methylcyclohexane
Concen: 51.153 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 83 Resp: 15386

Ion	Ratio	Lower	Upper
83	100		
55	80.0	66.4	99.6
98	46.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
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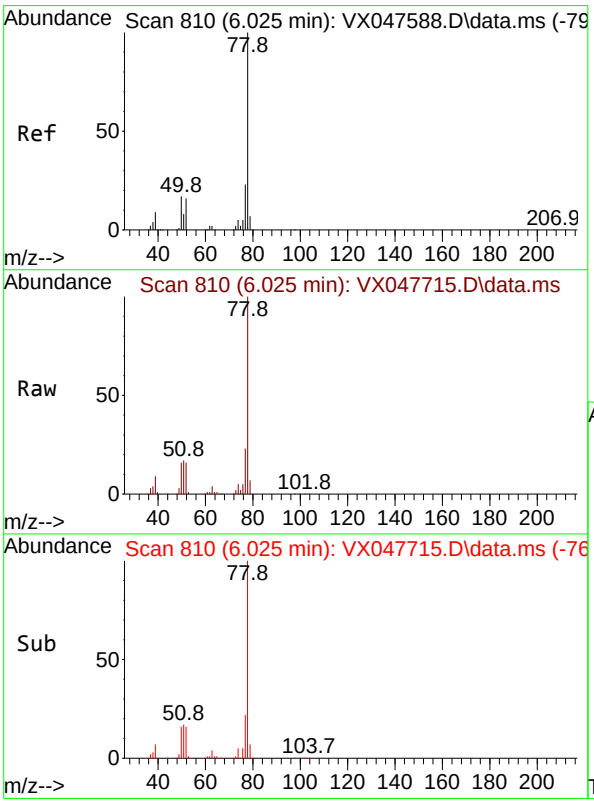
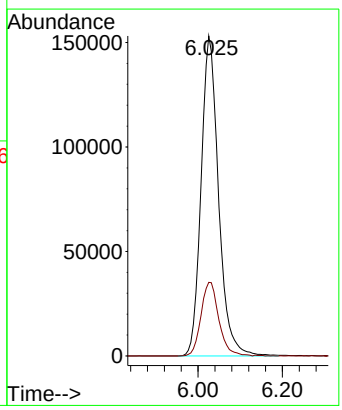
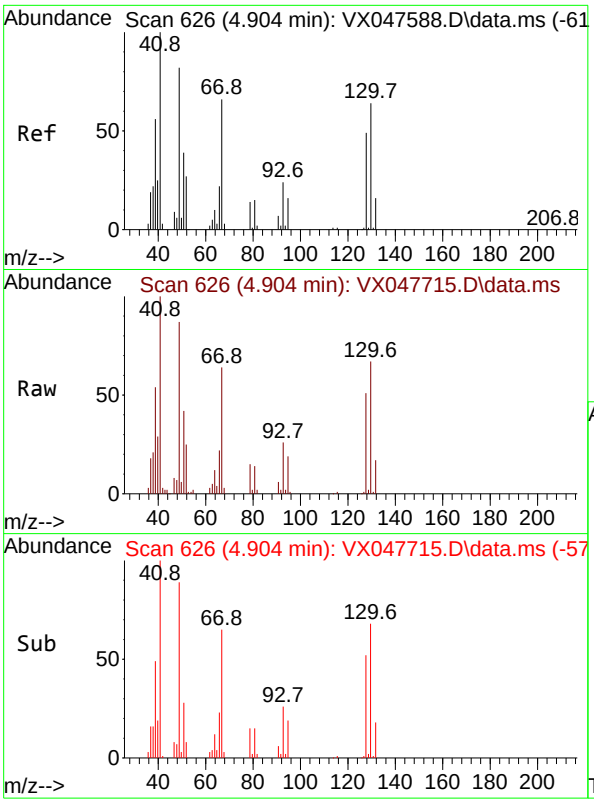


#40
Benzene
Concen: 54.879 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 78 Resp: 441675

Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.8	28.2

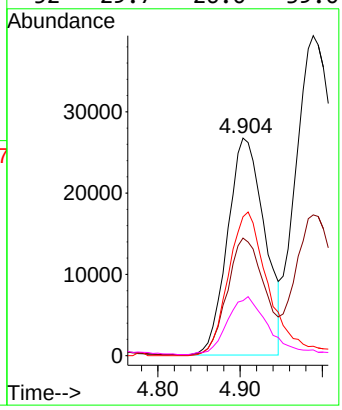




#41
Methacrylonitrile
Concen: 57.102 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 41 Resp: 8363

Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.3	64.9
67	74.1	58.6	87.8
52	29.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

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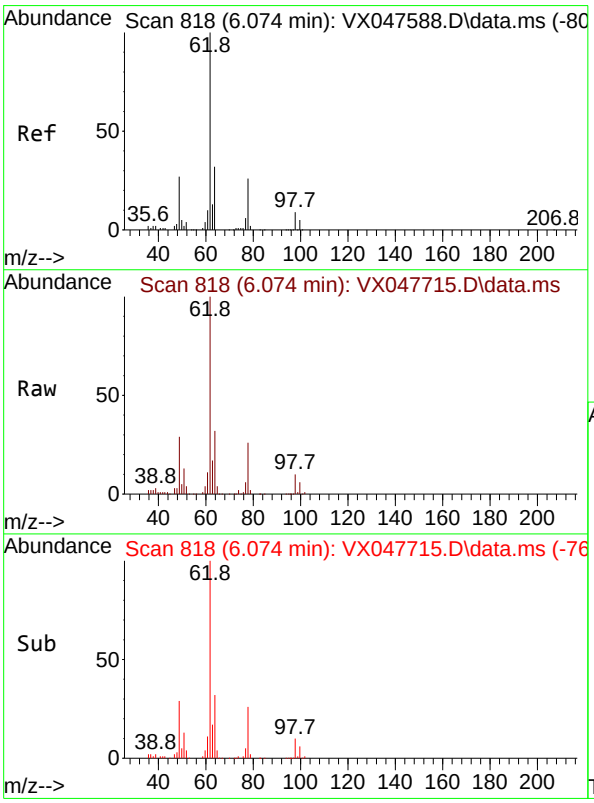
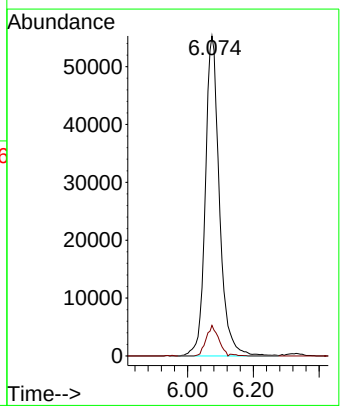
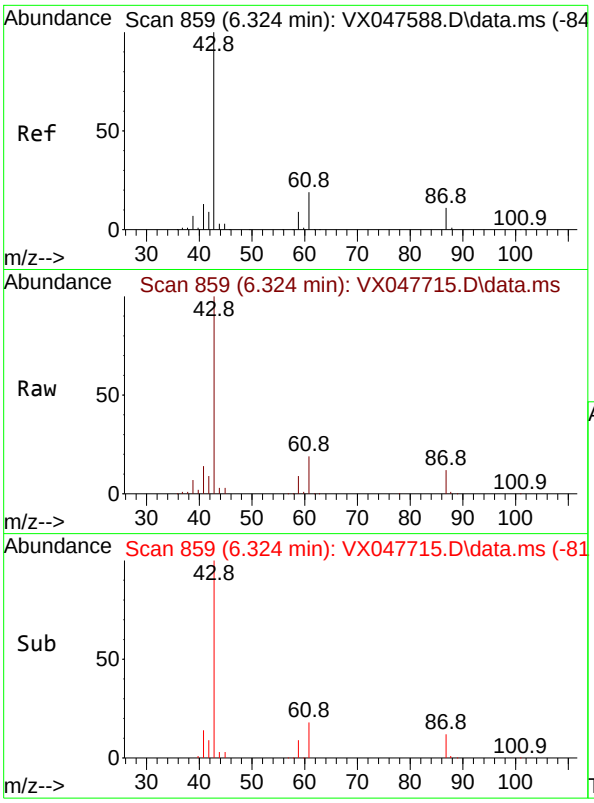


#42
1,2-Dichloroethane
Concen: 53.778 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 62 Resp: 164680

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0

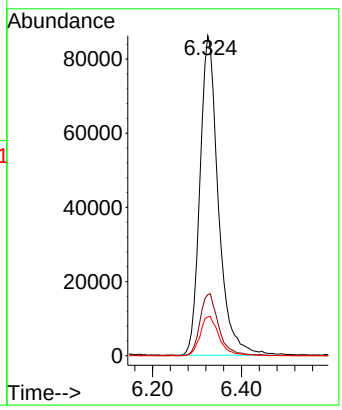




#43
Isopropyl Acetate
Concen: 53.417 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 24856

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.2	22.8
87	12.6	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
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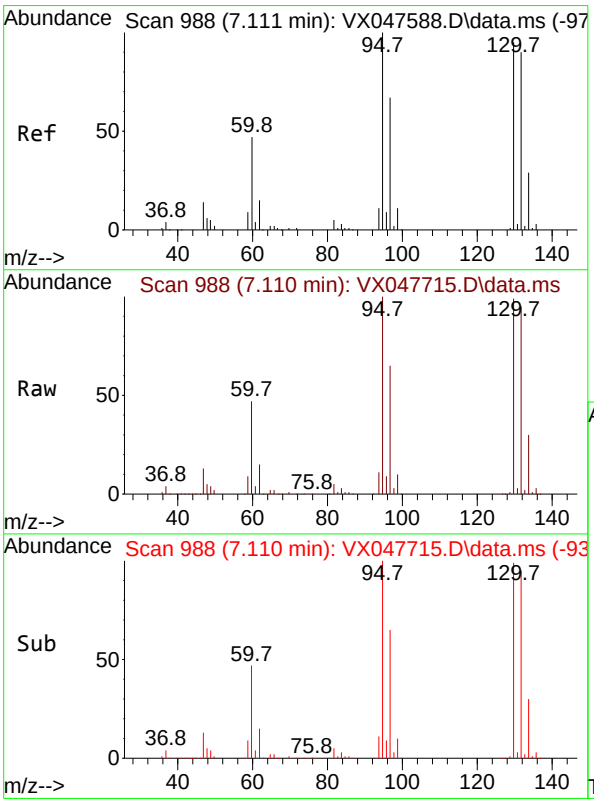
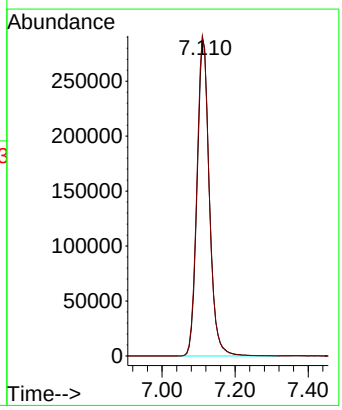
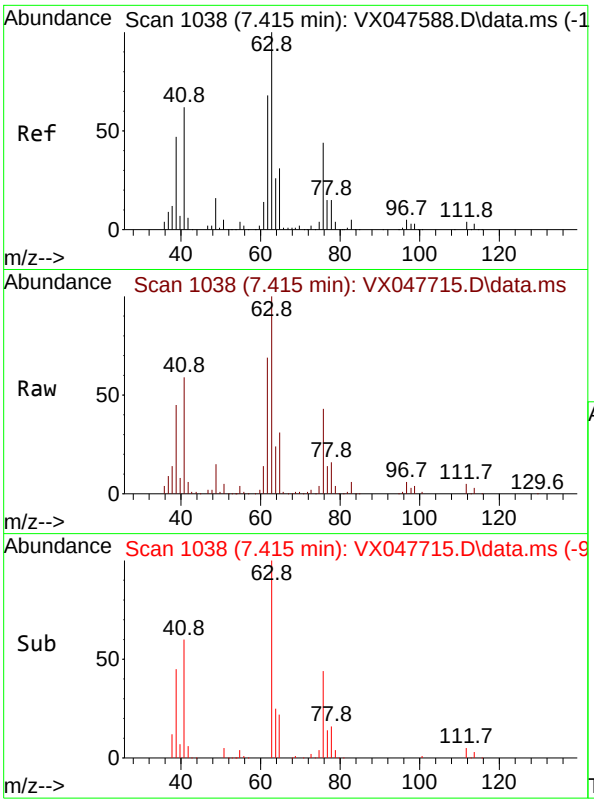


#44
Trichloroethene
Concen: 347.474 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:130 Resp: 676102

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	210.8

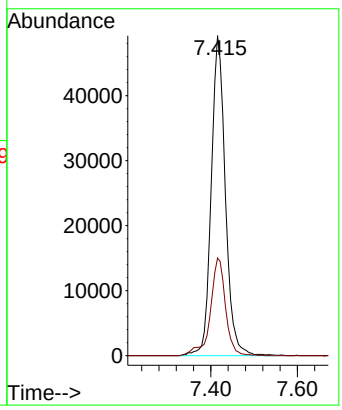




#45
1,2-Dichloropropane
Concen: 54.048 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 63 Resp: 11138

Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
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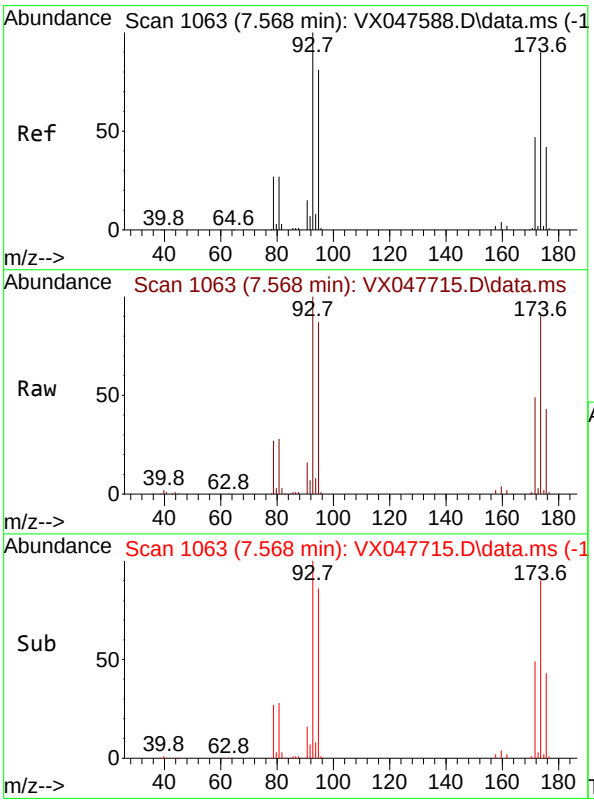
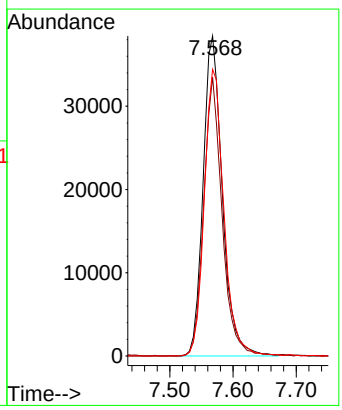
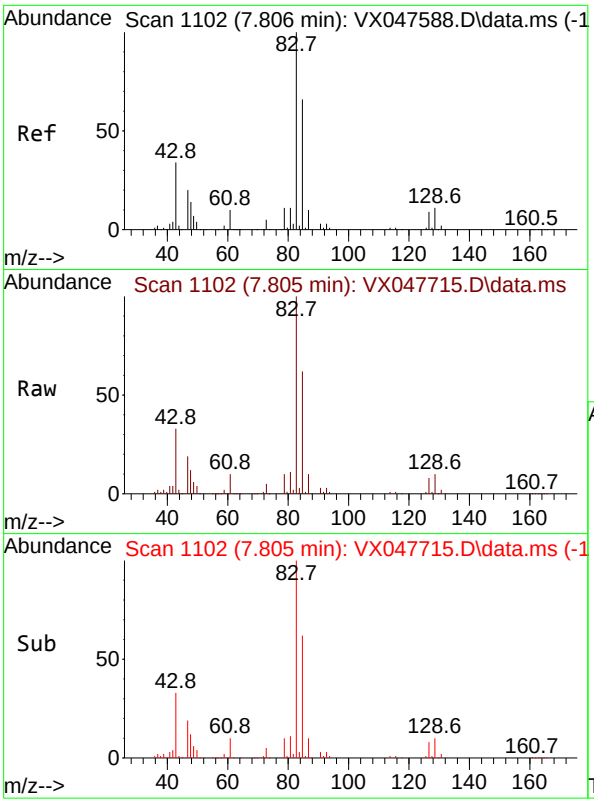


#46
Dibromomethane
Concen: 54.206 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 93 Resp: 81291

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.0	97.6
174	91.0	71.6	107.4

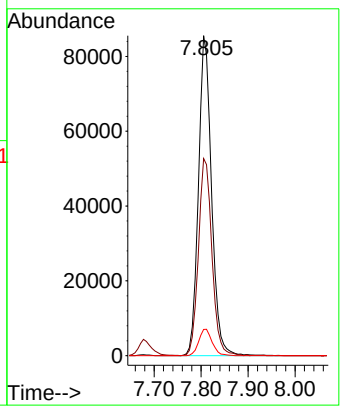




#47
Bromodichloromethane
Concen: 53.549 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 83 Resp: 16571

Ion	Ratio	Lower	Upper
83	100		
85	61.5	52.5	78.7
127	8.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

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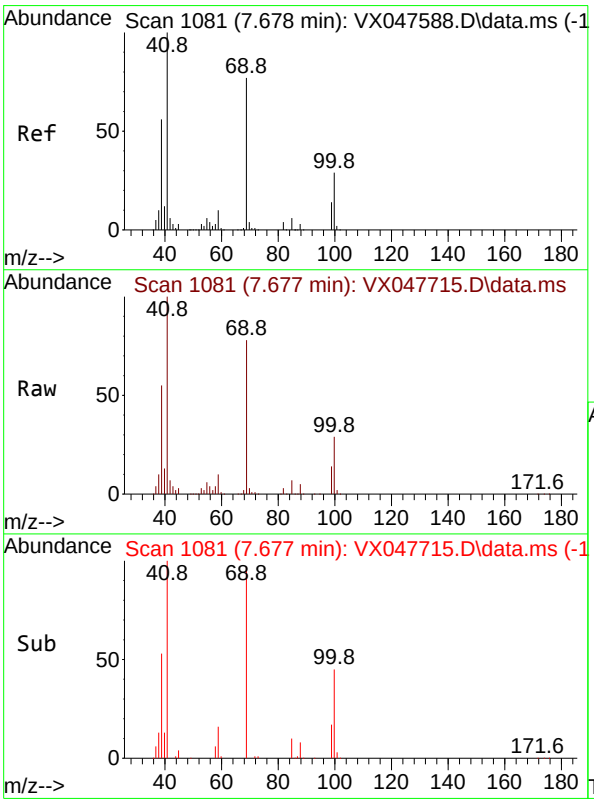
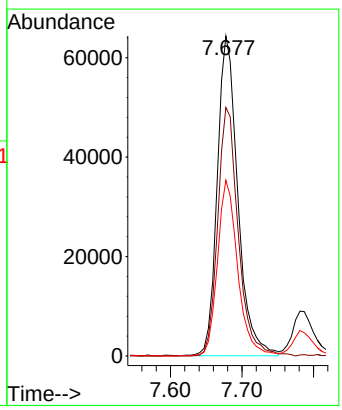
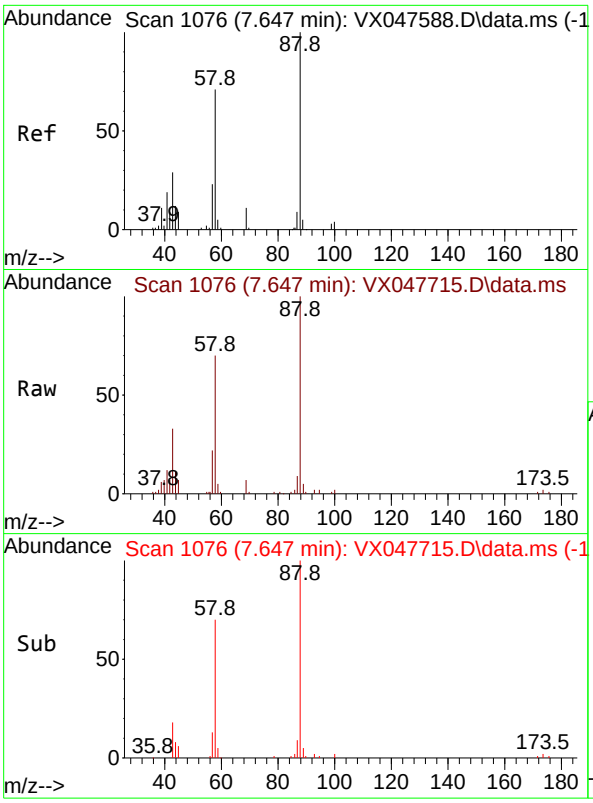


#48
Methyl methacrylate
Concen: 55.339 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 41 Resp: 128265

Ion	Ratio	Lower	Upper
41	100		
69	77.7	61.4	92.2
39	54.3	45.8	68.6

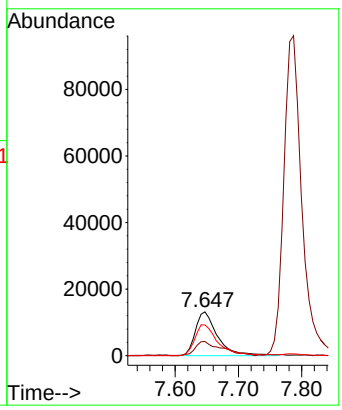




#49
1,4-Dioxane
Concen: 1370.775 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 88 Resp: 3210

Ion	Ratio	Lower	Upper
88	100		
43	38.8	30.2	45.2
58	73.2	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
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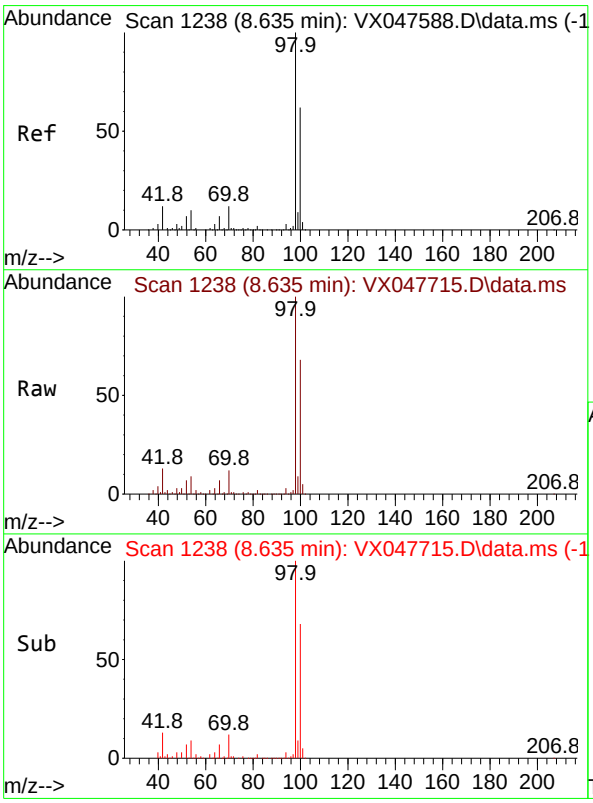
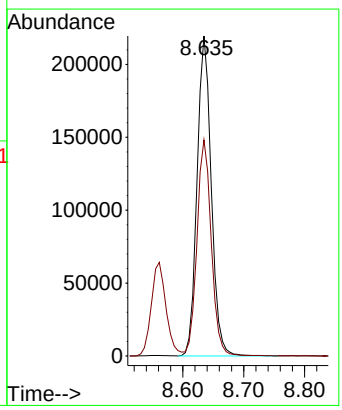
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

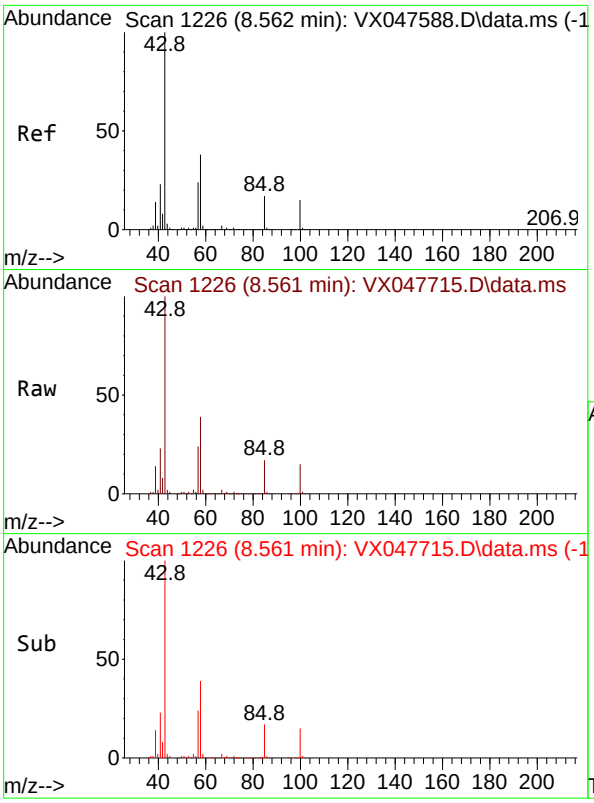


#50
Toluene-d8
Concen: 56.625 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 98 Resp: 355310

Ion	Ratio	Lower	Upper
98	100		
100	68.2	53.0	79.4

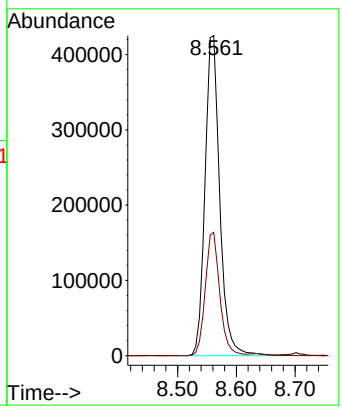




#51
4-Methyl-2-Pentanone
Concen: 287.265 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 74112

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



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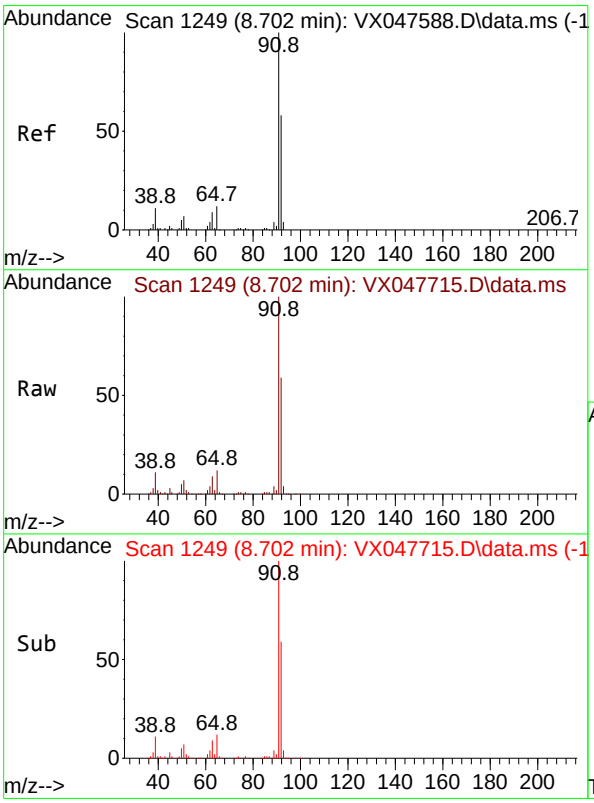
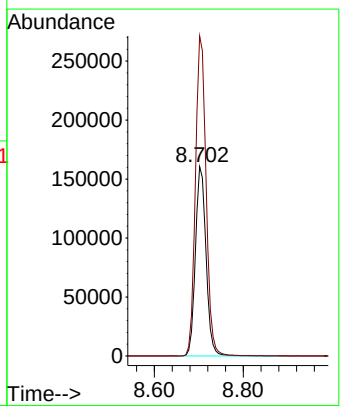
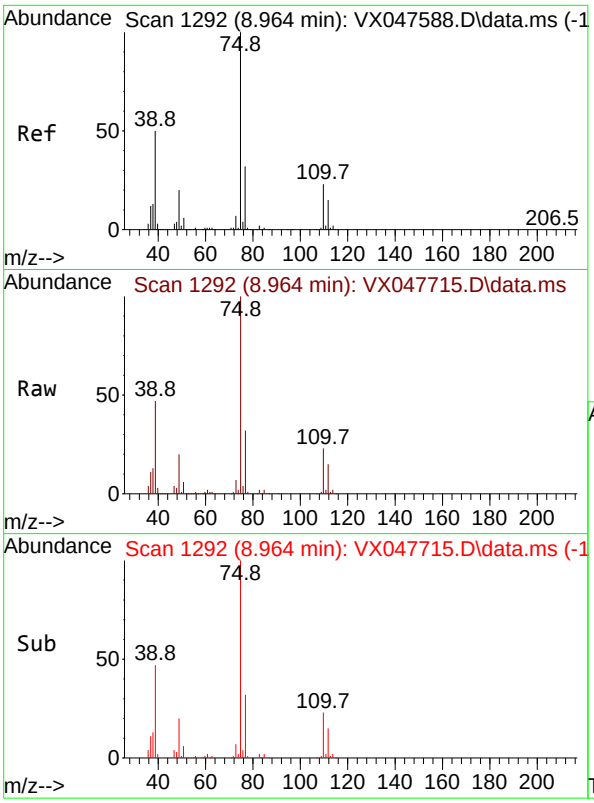


#52
Toluene
Concen: 53.583 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 92 Resp: 265691

Ion	Ratio	Lower	Upper
92	100		
91	169.7	137.1	205.7

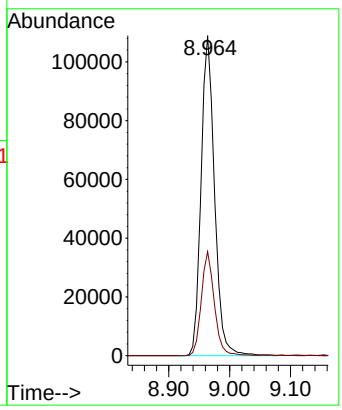




#53
t-1,3-Dichloropropene
Concen: 53.106 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 75 Resp: 16763

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.2



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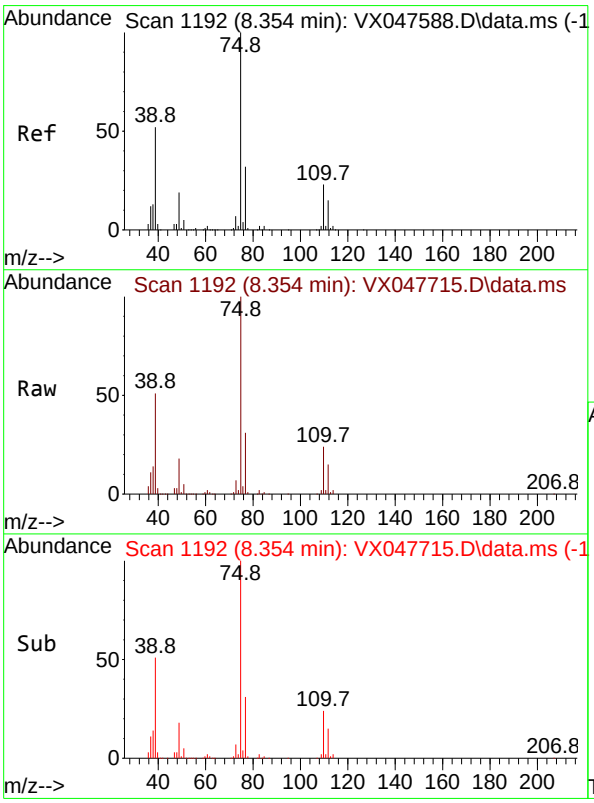
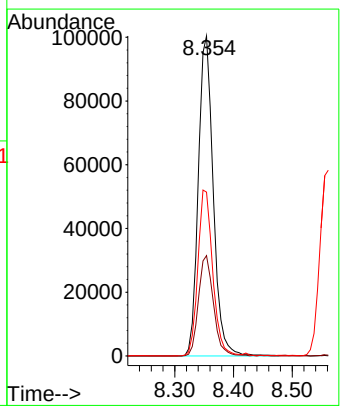
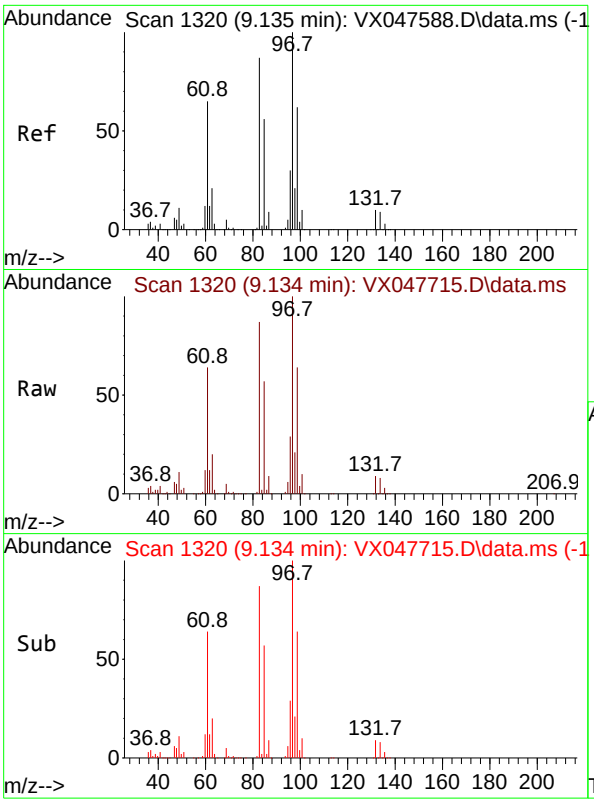


#54
cis-1,3-Dichloropropene
Concen: 52.436 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 75 Resp: 176915

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	51.1	41.4	62.2

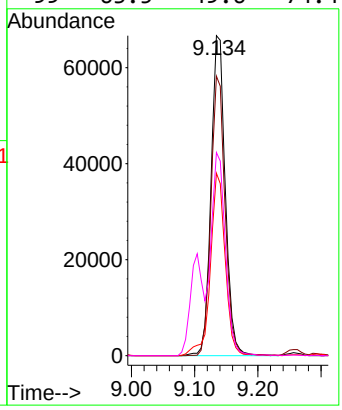




#55
1,1,2-Trichloroethane
Concen: 54.609 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 97 Resp: 10441

Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.6	104.4
85	57.0	45.0	67.6
99	63.5	49.6	74.4



Instrument :
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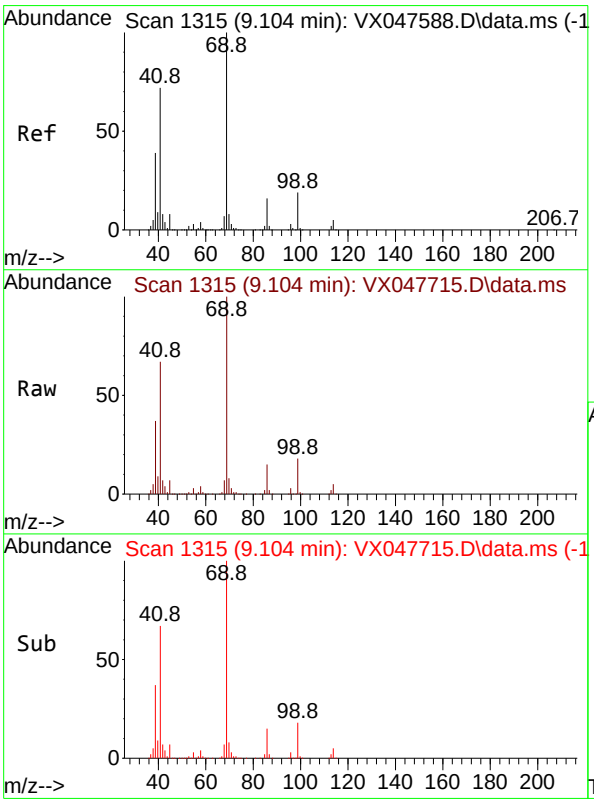
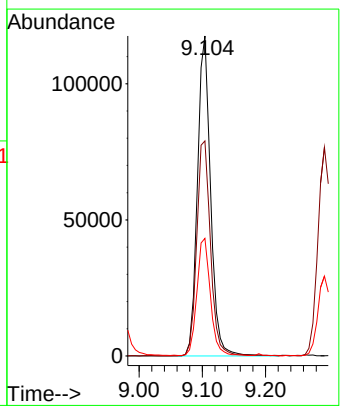
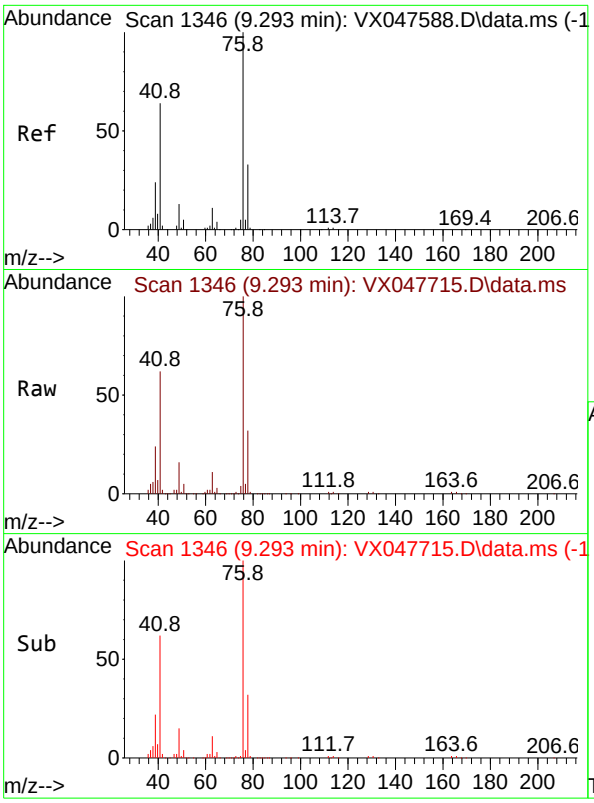


#56
Ethyl methacrylate
Concen: 56.764 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 69 Resp: 170443

Ion	Ratio	Lower	Upper
69	100		
41	70.3	58.6	87.8
39	37.5	31.5	47.3

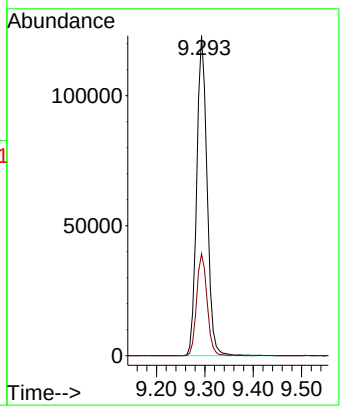




#57
1,3-Dichloropropane
Concen: 55.685 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 76 Resp: 18289

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
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ClientSampleId :
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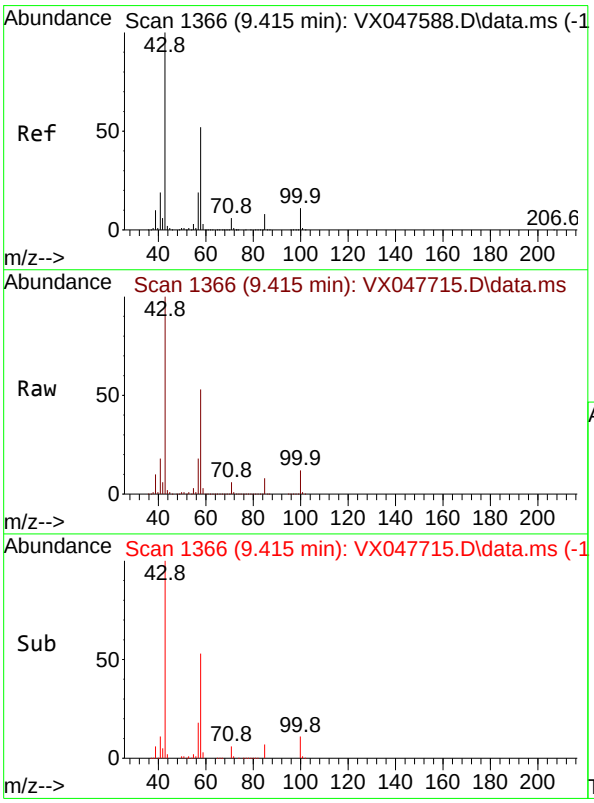
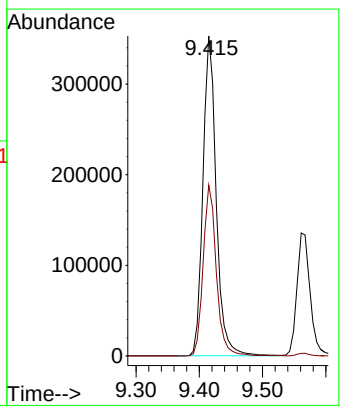
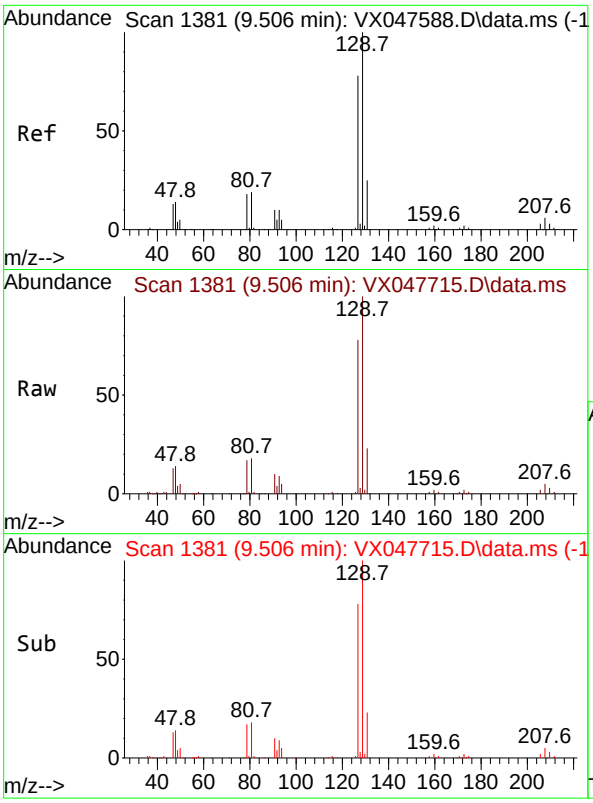


#59
2-Hexanone
Concen: 278.577 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 516181

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.1	78.2

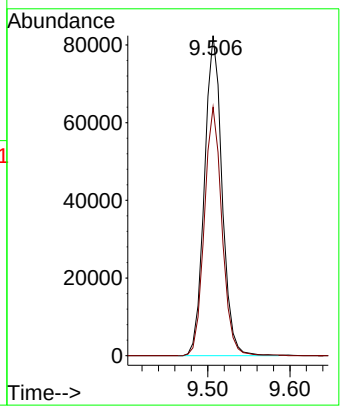




#60
Dibromochloromethane
Concen: 55.672 ug/l
RT: 9.506 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:129 Resp: 12264

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.4	115.2



Instrument :
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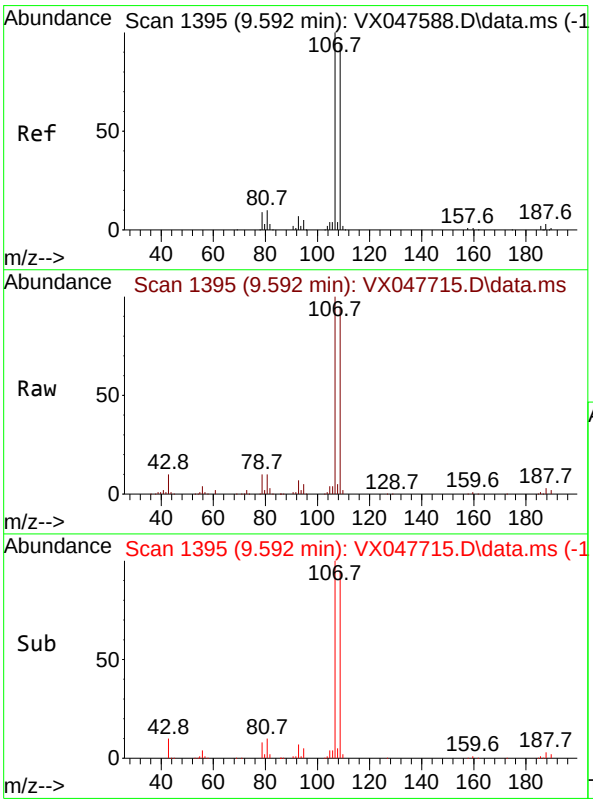
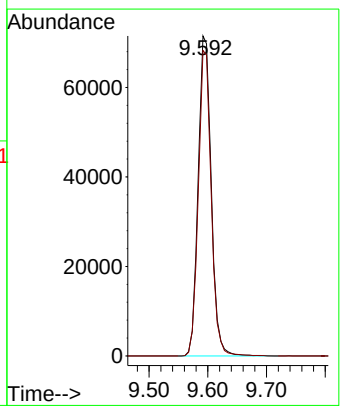
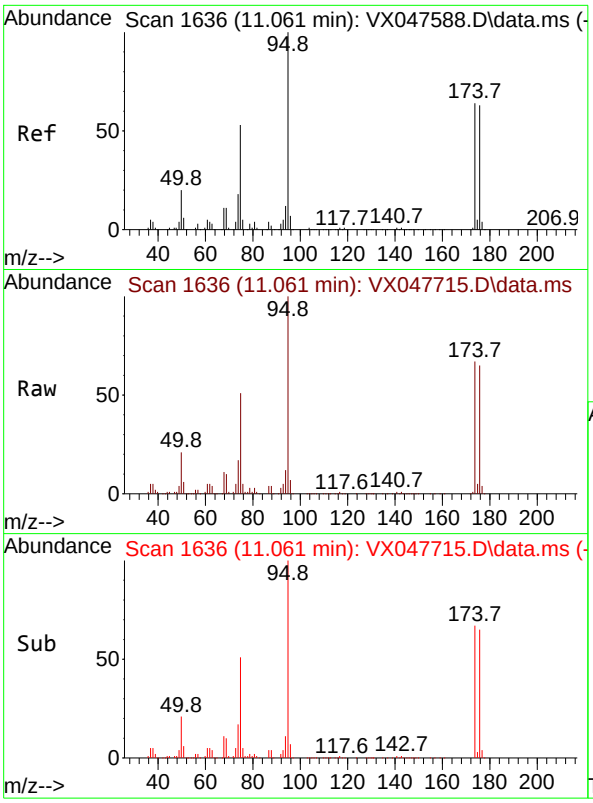


#61
1,2-Dibromoethane
Concen: 56.847 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:107 Resp: 110705

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.3	112.9

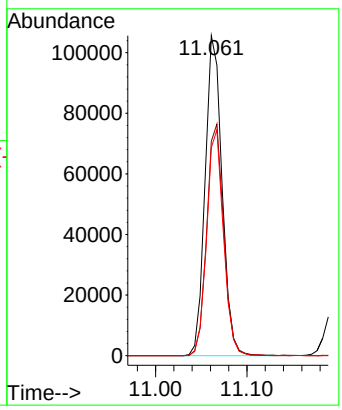




#62
4-Bromofluorobenzene
Concen: 56.821 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 95 Resp: 13531

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	141.6
176	69.9	0.0	138.4



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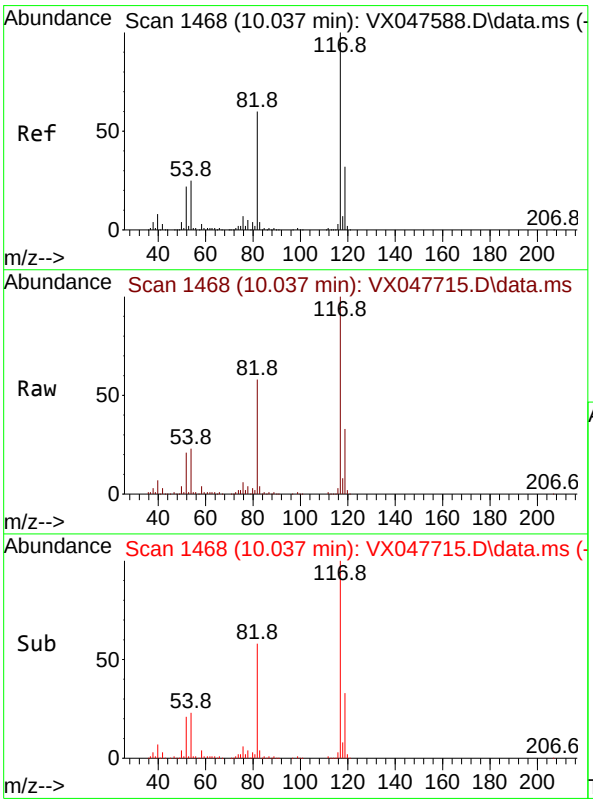
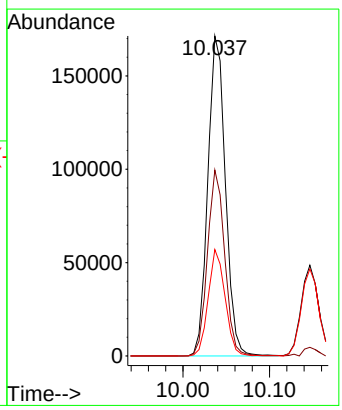
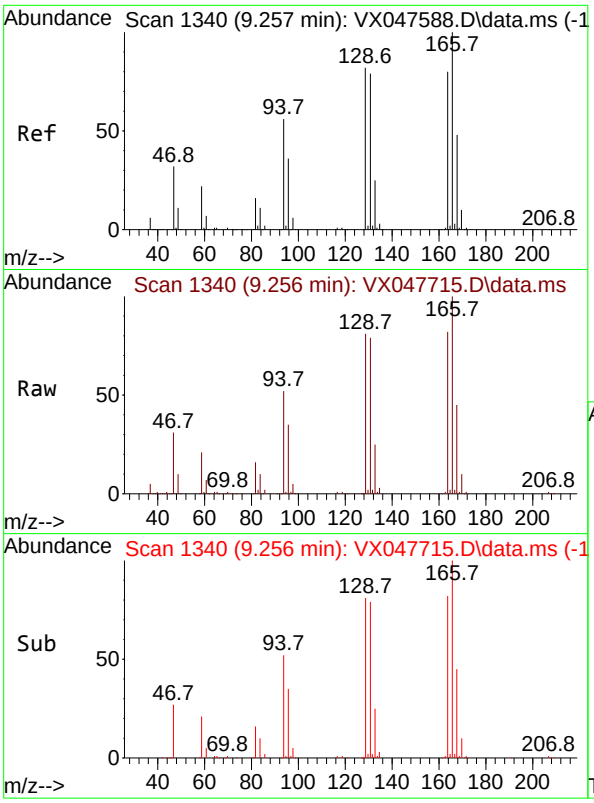


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:117 Resp: 241438

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	33.2	25.2	37.8

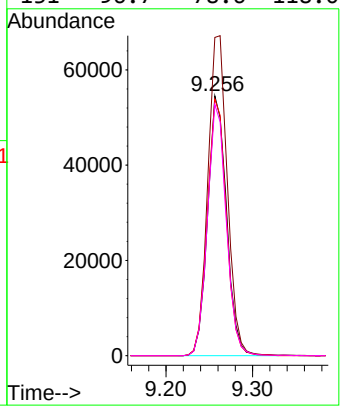




#64
Tetrachloroethene
Concen: 52.520 ug/l
RT: 9.256 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:164 Resp: 8266

Ion	Ratio	Lower	Upper
164	100		
166	122.4	100.2	150.2
129	98.7	81.8	122.6
131	96.7	78.6	118.0



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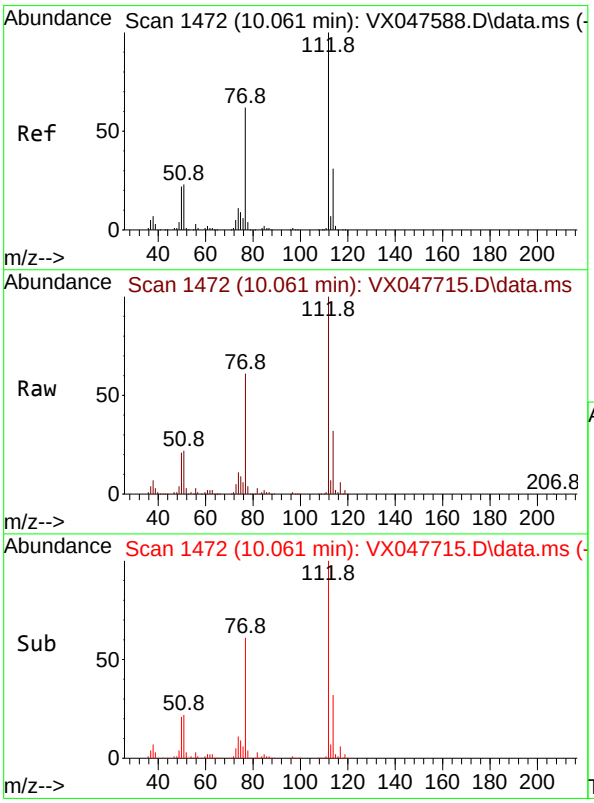
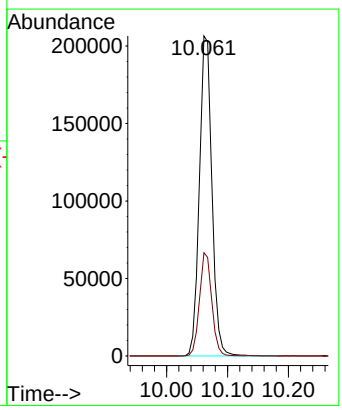
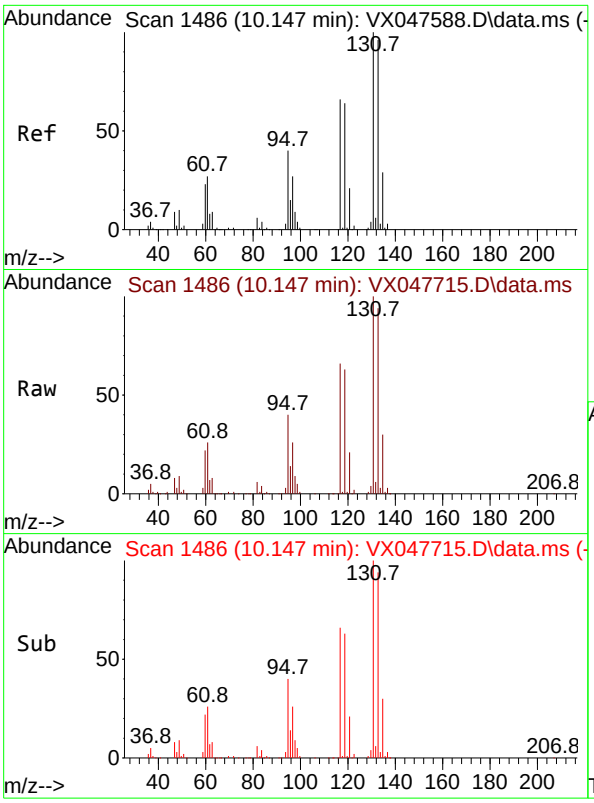


#65
Chlorobenzene
Concen: 53.911 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:112 Resp: 295700

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.1	37.7

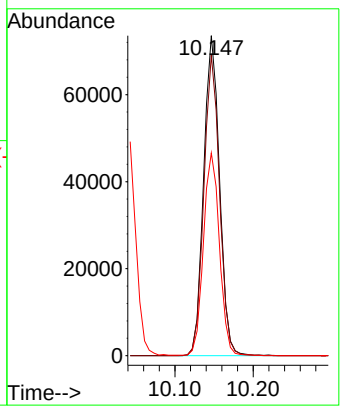




#66
1,1,1,2-Tetrachloroethane
Concen: 54.546 ug/l
RT: 10.147 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:131 Resp: 10324

Ion	Ratio	Lower	Upper
131	100		
133	93.1	47.3	142.0
119	64.0	32.0	96.0



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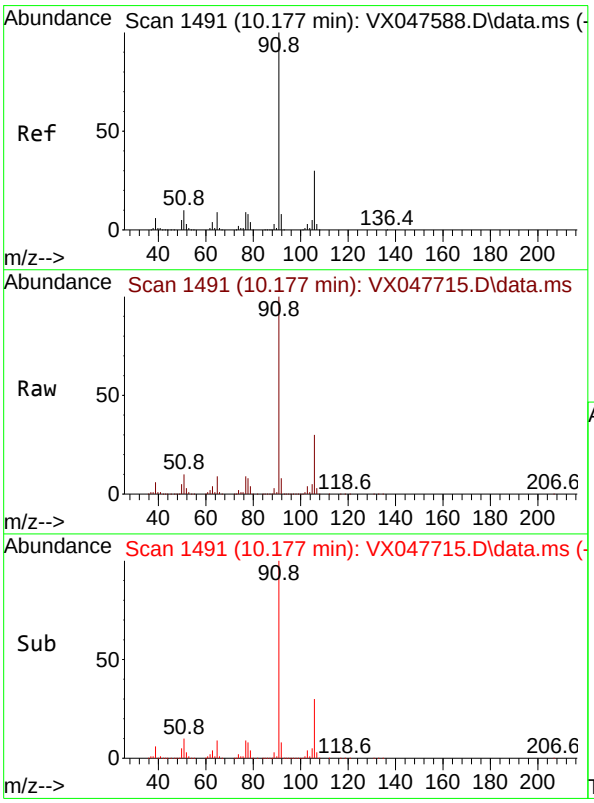
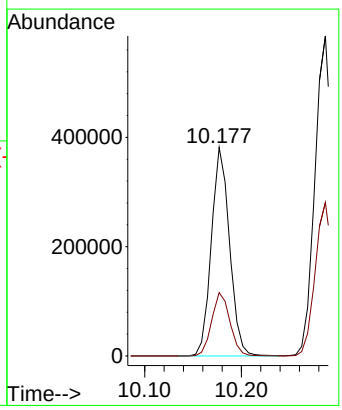
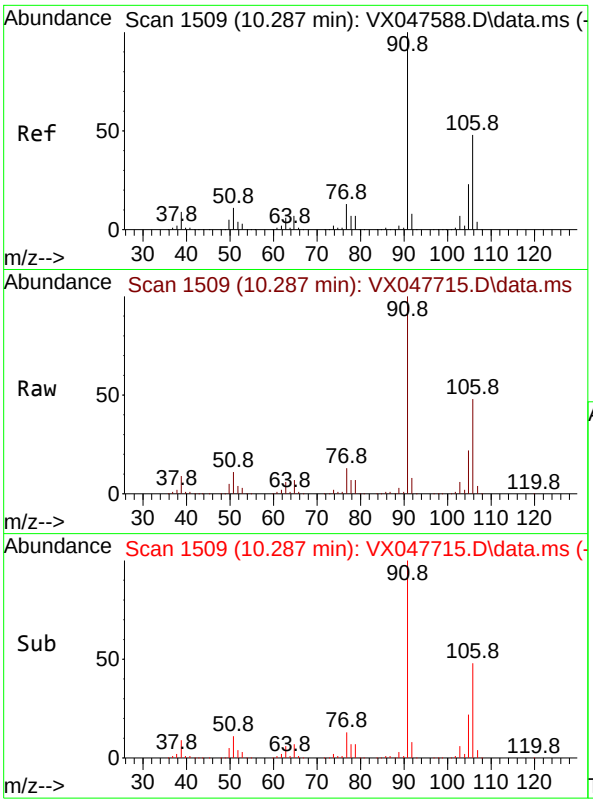


#67
Ethyl Benzene
Concen: 52.704 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 91 Resp: 498788

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5

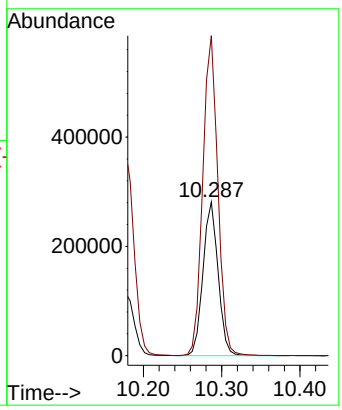




#68
m/p-Xylenes
Concen: 106.818 ug/l
RT: 10.287 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:106 Resp: 37627

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8



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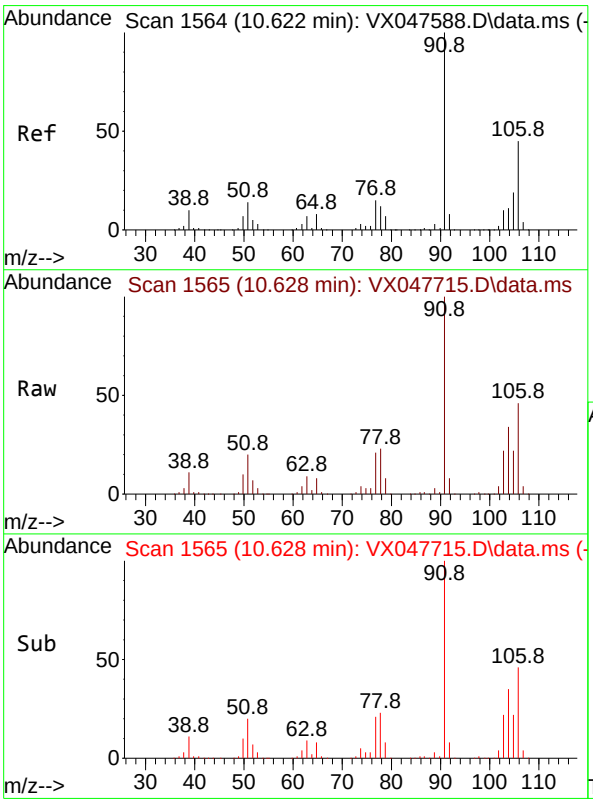
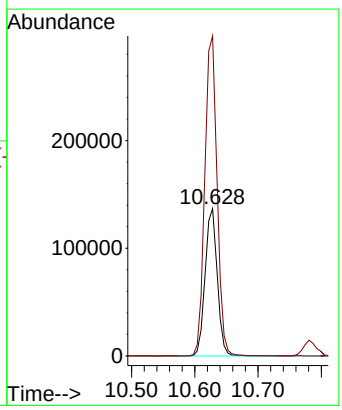
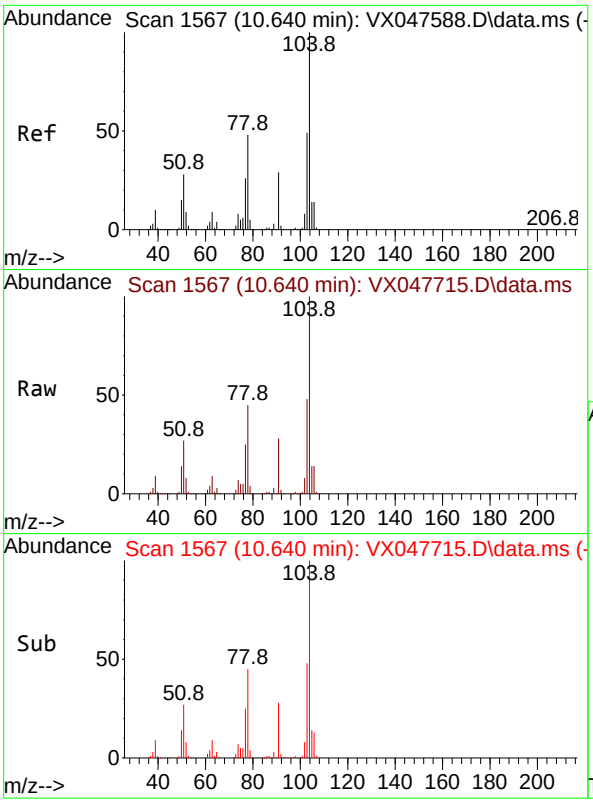


#69
o-Xylene
Concen: 53.793 ug/l
RT: 10.628 min Scan# 1565
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:106 Resp: 183279

Ion	Ratio	Lower	Upper
106	100		
91	219.9	111.1	333.4

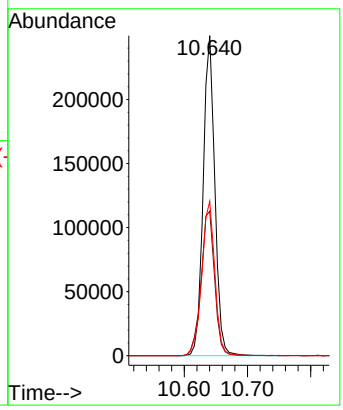




#70
Styrene
Concen: 53.747 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:104 Resp: 32086

Ion	Ratio	Lower	Upper
104	100		
78	52.5	43.1	64.7
103	54.1	43.1	64.7



Instrument :
MSVOA_X
ClientSampleId :
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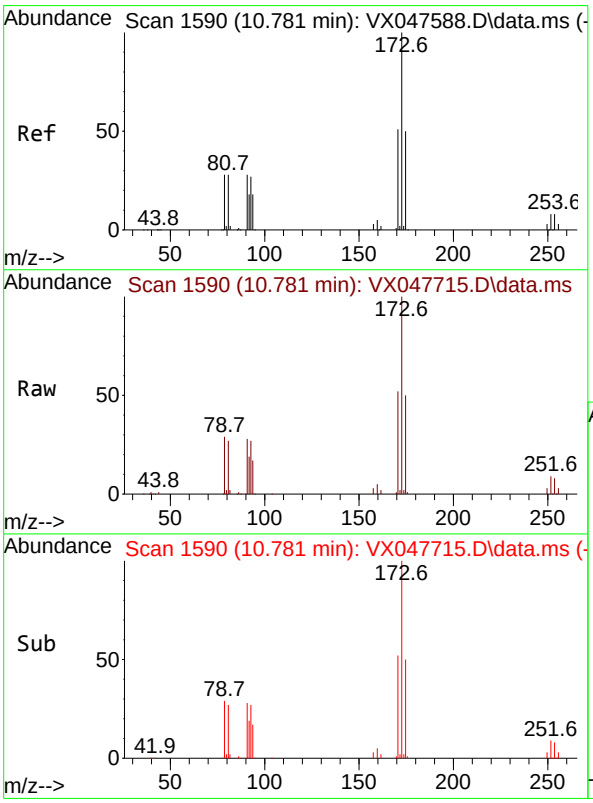
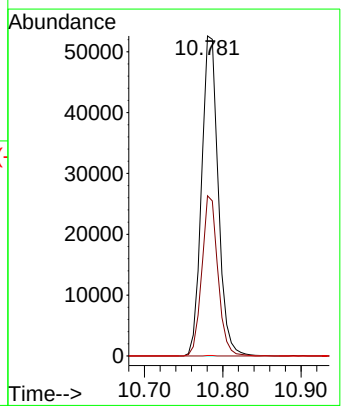
Supervised By :Mahesh Dadoda 09/24/2025

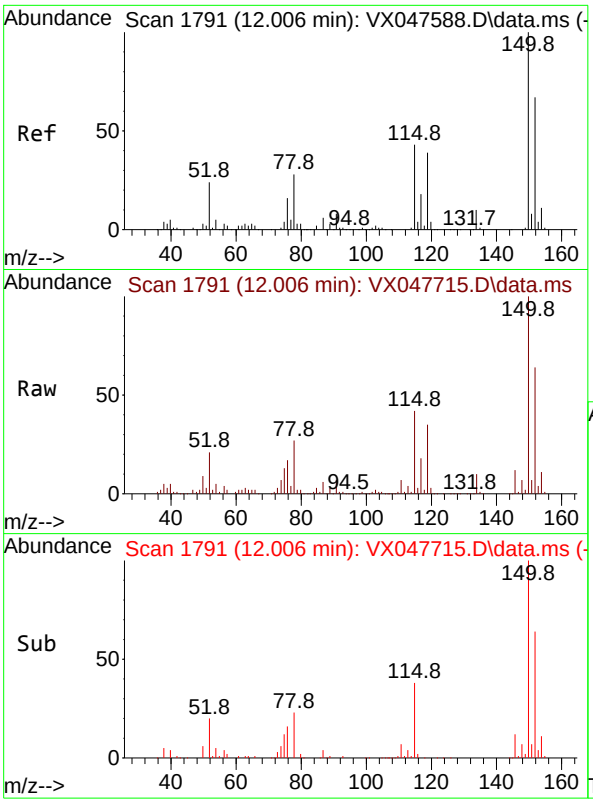


#71
Bromoform
Concen: 54.826 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:173 Resp: 77485

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.9	74.6
254	0.1	0.1	0.1

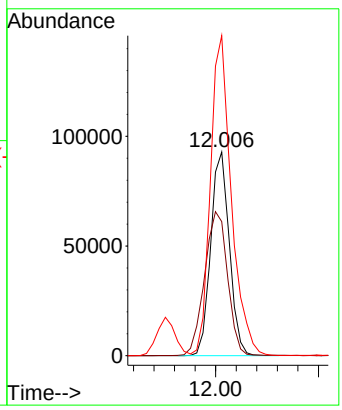




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:152 Resp: 11653

Ion	Ratio	Lower	Upper
152	100		
115	87.9	44.9	134.5
150	176.0	0.0	352.0



Instrument :
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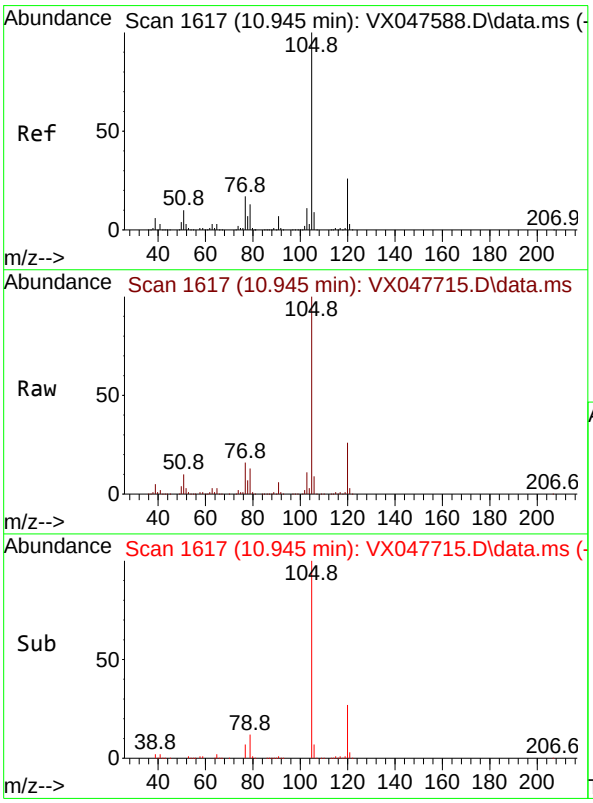
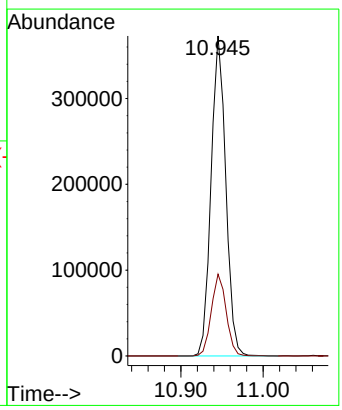
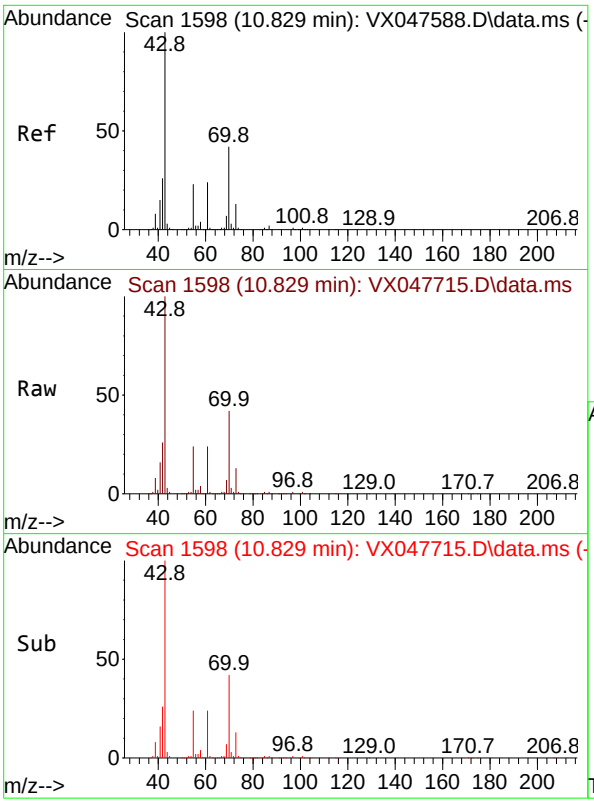


#73
Isopropylbenzene
Concen: 52.217 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:105 Resp: 462634

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.4

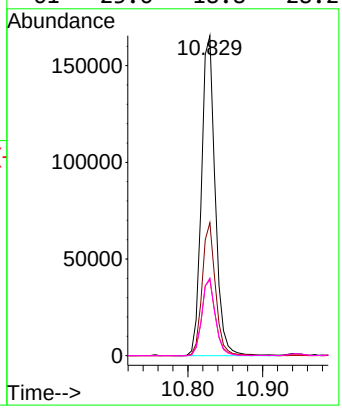




#74
N-amyl acetate
Concen: 52.202 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 21091

Ion	Ratio	Lower	Upper
43	100		
70	40.5	32.0	48.0
55	24.0	18.9	28.3
61	23.6	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
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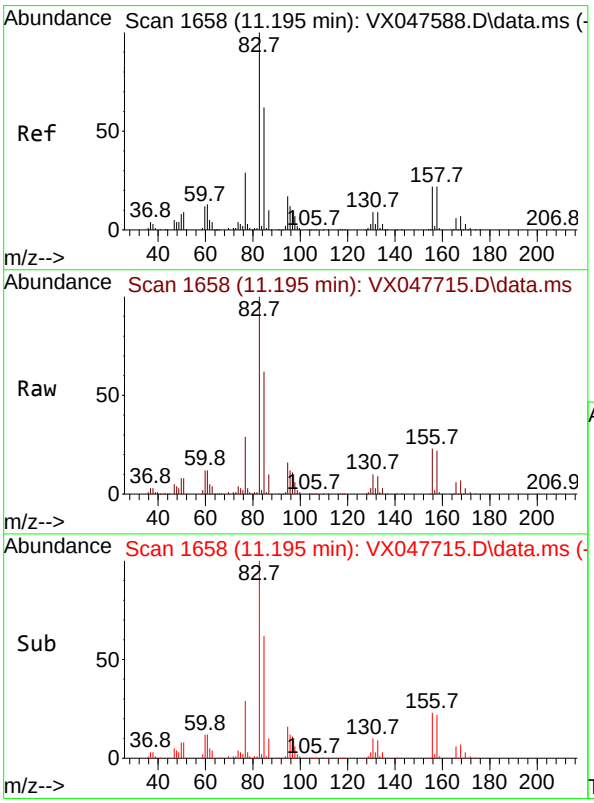
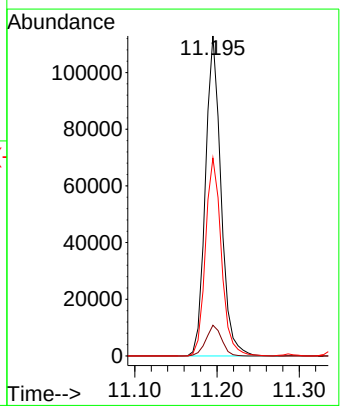
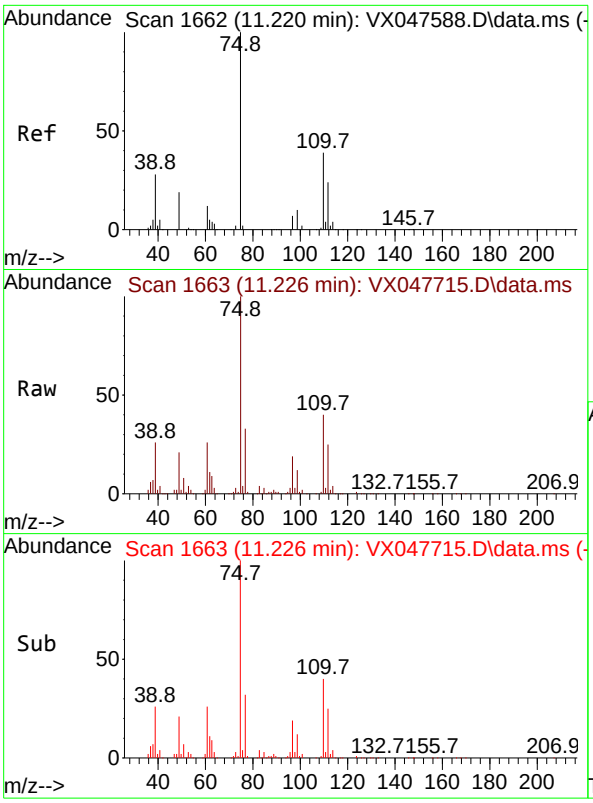


#75
1,1,2,2-Tetrachloroethane
Concen: 55.400 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 83 Resp: 148503

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	63.3	31.6	95.0

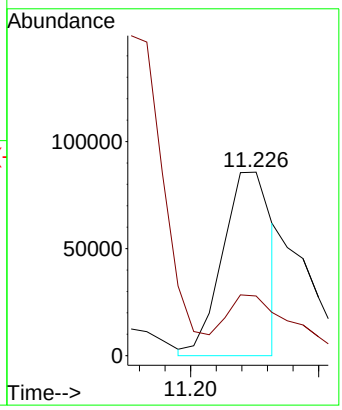




#76
1,2,3-Trichloropropane
Concen: 48.182 ug/l m
RT: 11.226 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 75 Resp: 11368

Ion	Ratio	Lower	Upper
75	100		
77	44.5	18.8	56.4



Instrument :
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ClientSampleId :
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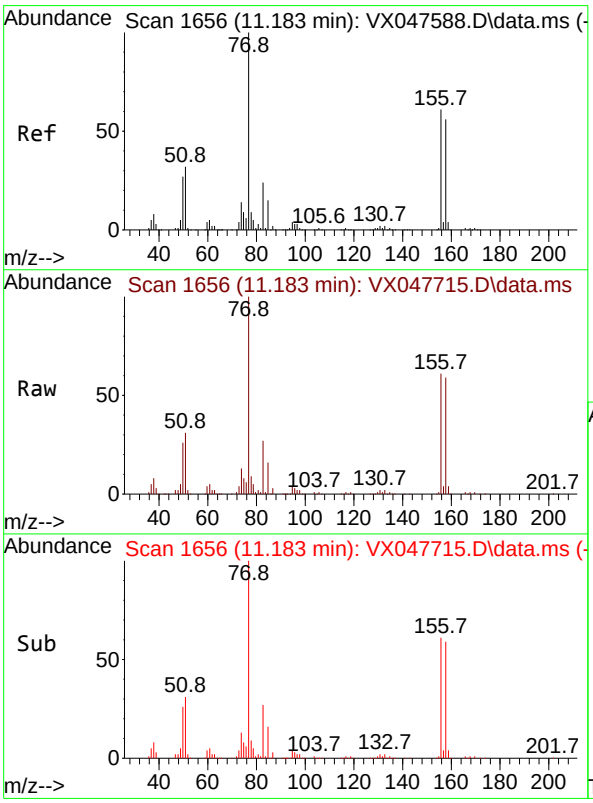
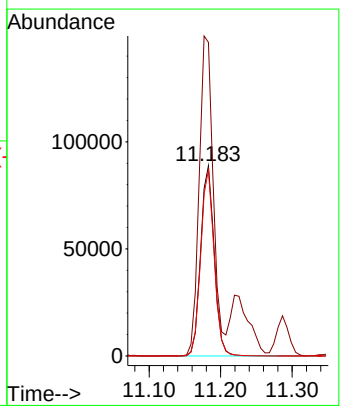
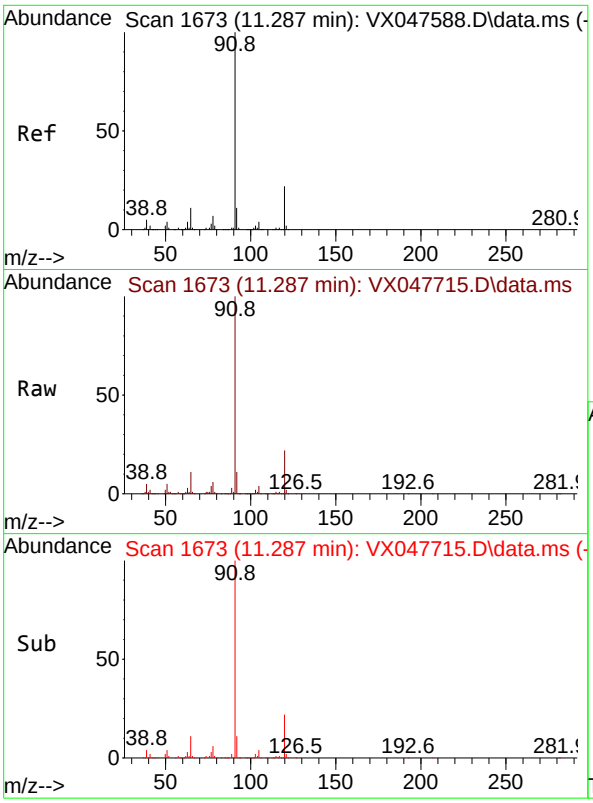


#77
Bromobenzene
Concen: 53.577 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:156 Resp: 116912

Ion	Ratio	Lower	Upper
156	100		
77	175.2	89.7	269.1
158	97.0	47.9	143.6

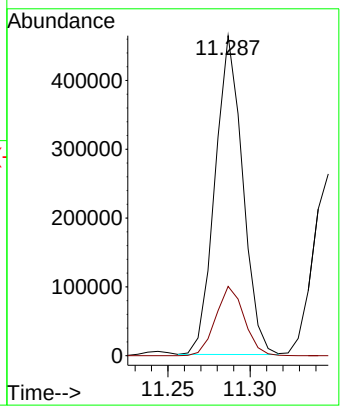




#78
n-propylbenzene
Concen: 51.826 ug/l
RT: 11.287 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 91 Resp: 54279

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
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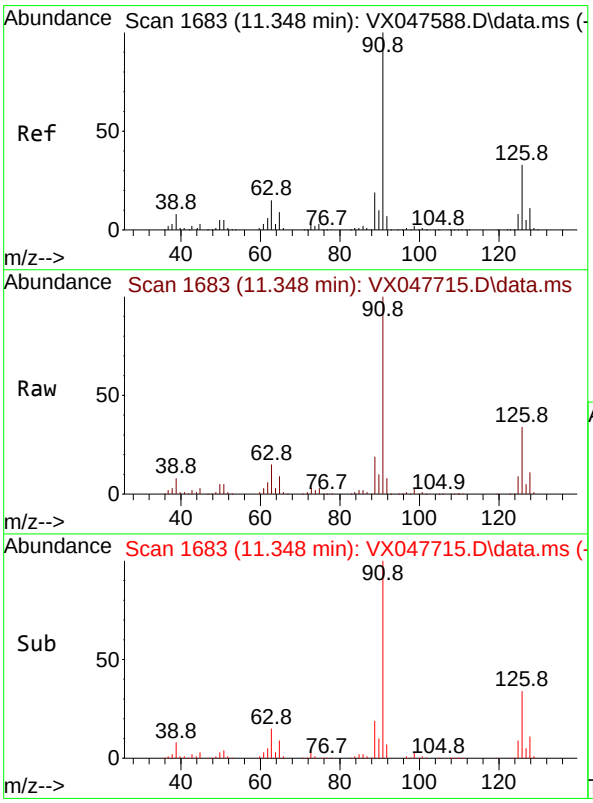
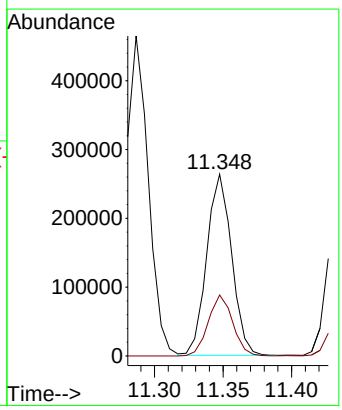
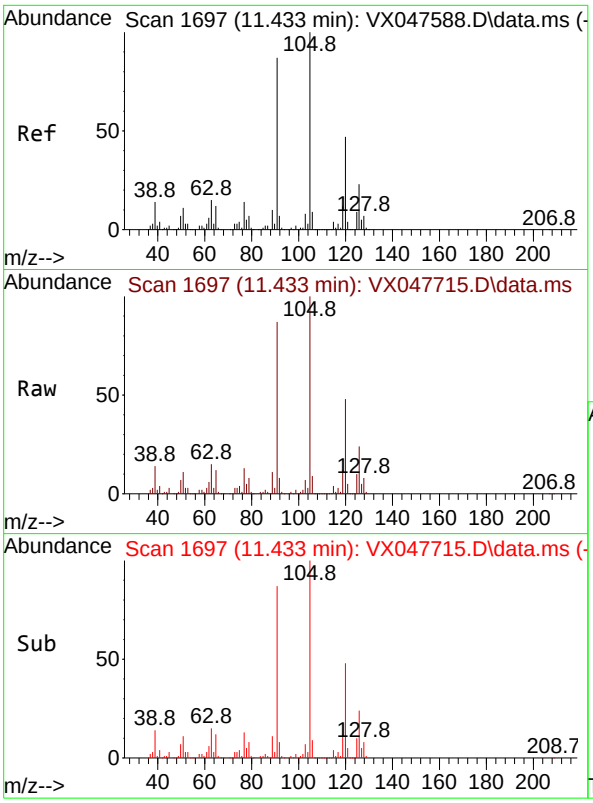


#79
2-Chlorotoluene
Concen: 51.805 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 91 Resp: 332315

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.1	48.3

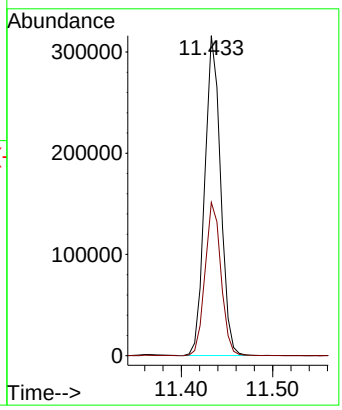




#80
1,3,5-Trimethylbenzene
Concen: 51.921 ug/l
RT: 11.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:105 Resp: 37793

Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.6	70.8



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

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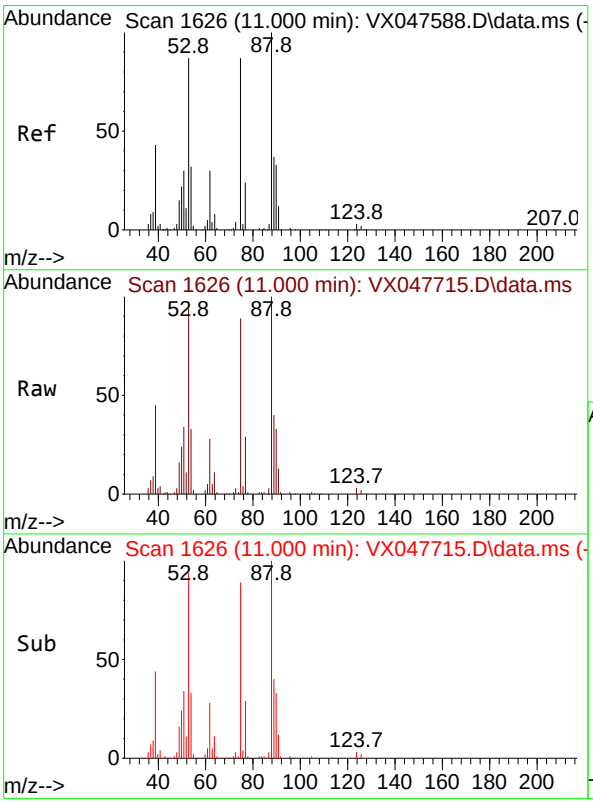
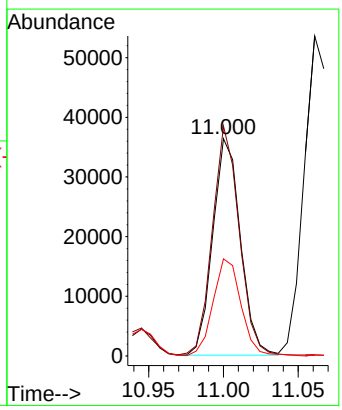
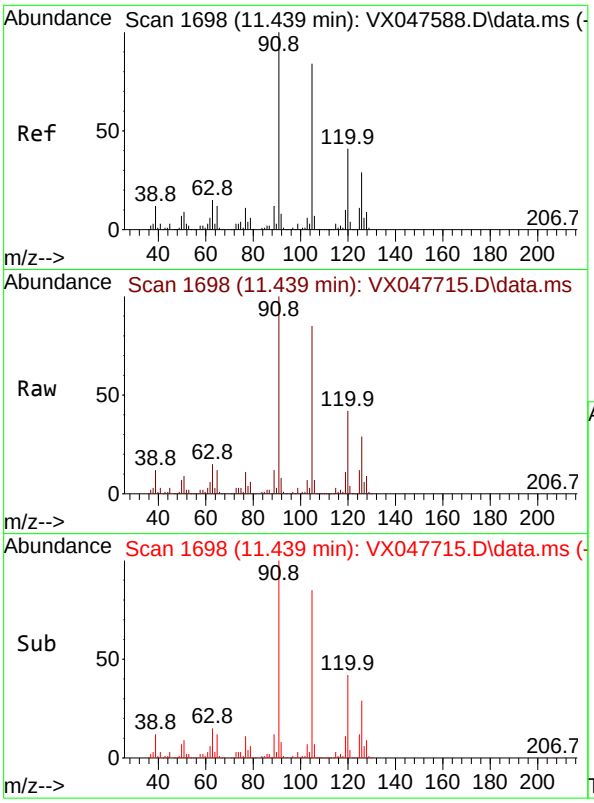


#81
trans-1,4-Dichloro-2-butene
Concen: 50.434 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 75 Resp: 46664

Ion	Ratio	Lower	Upper
75	100		
53	104.1	83.4	125.2
89	45.4	36.3	54.5





#82
4-Chlorotoluene
Concen: 51.951 ug/l
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 91 Resp: 39359

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6

Instrument :
MSVOA_X
ClientSampleId :
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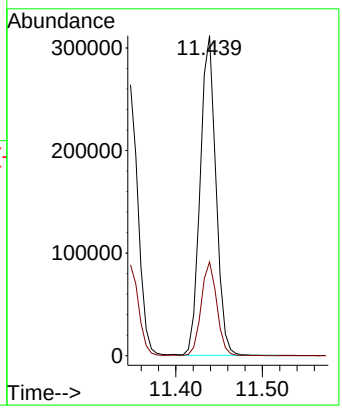
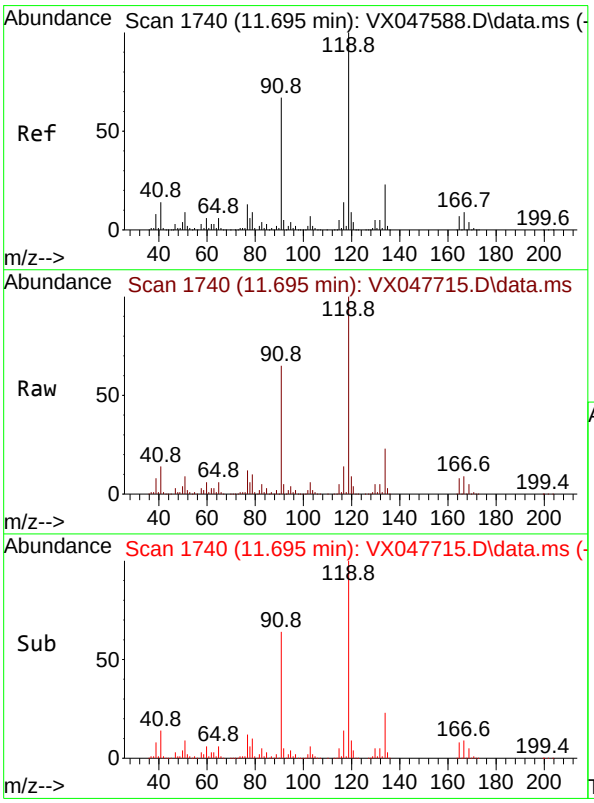
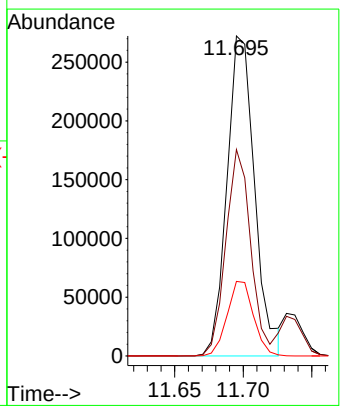


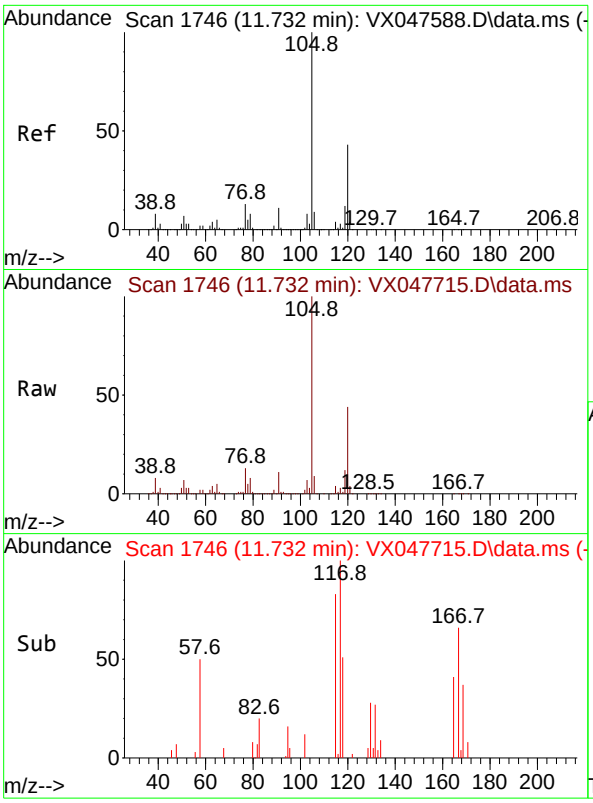


#83
tert-Butylbenzene
Concen: 51.420 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:119 Resp: 383158

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.6	88.8
134	22.2	11.0	33.0





#84
1,2,4-Trimethylbenzene
Concen: 52.035 ug/l
RT: 11.732 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:105 Resp: 38401

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.1

Instrument :
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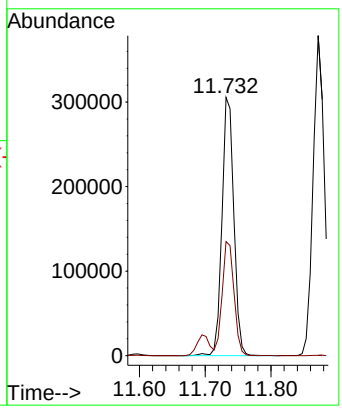
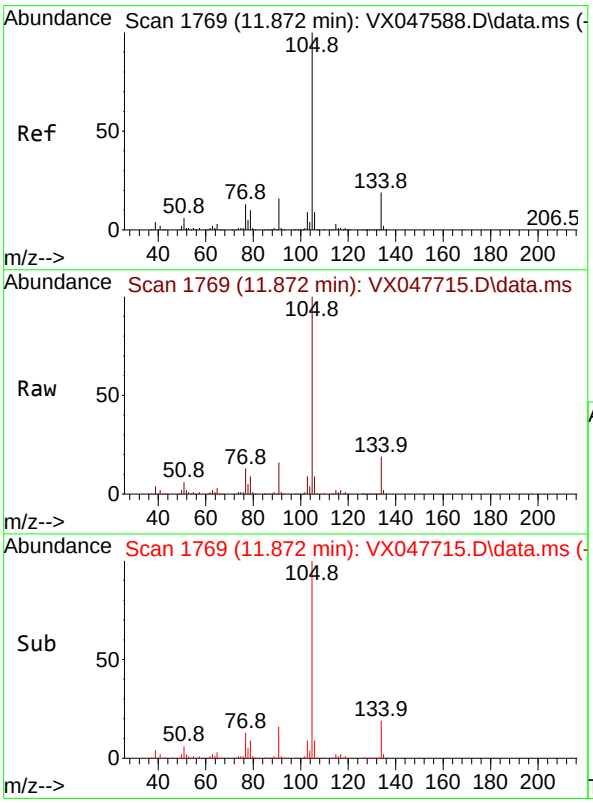
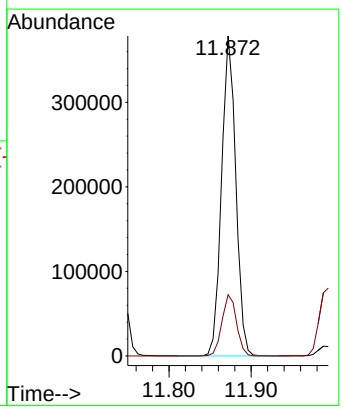


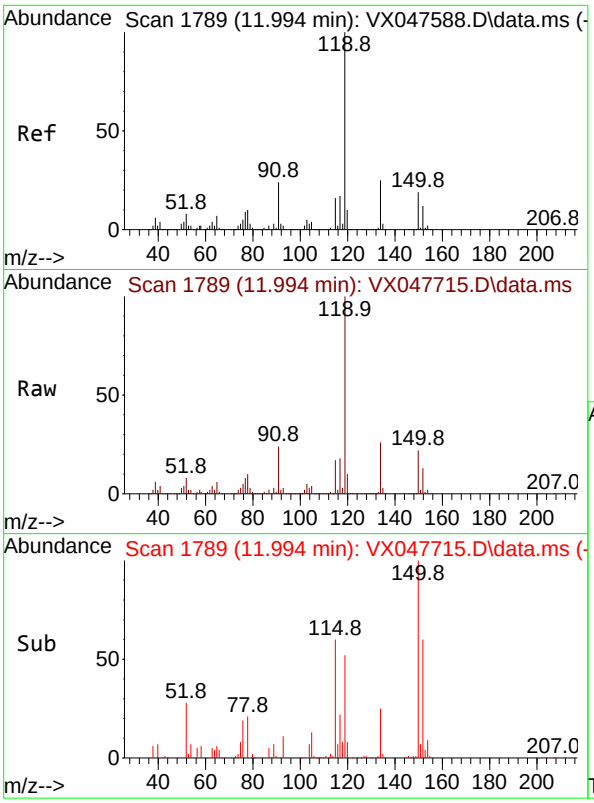


#85
sec-Butylbenzene
Concen: 51.437 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:105 Resp: 455269

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5

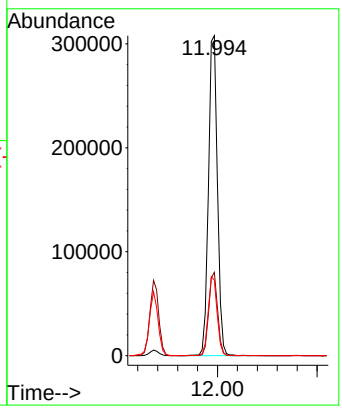




#86
p-Isopropyltoluene
Concen: 51.091 ug/l
RT: 11.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:119 Resp: 38283

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	24.6	12.6	37.6



Instrument :
MSVOA_X
ClientSampleId :
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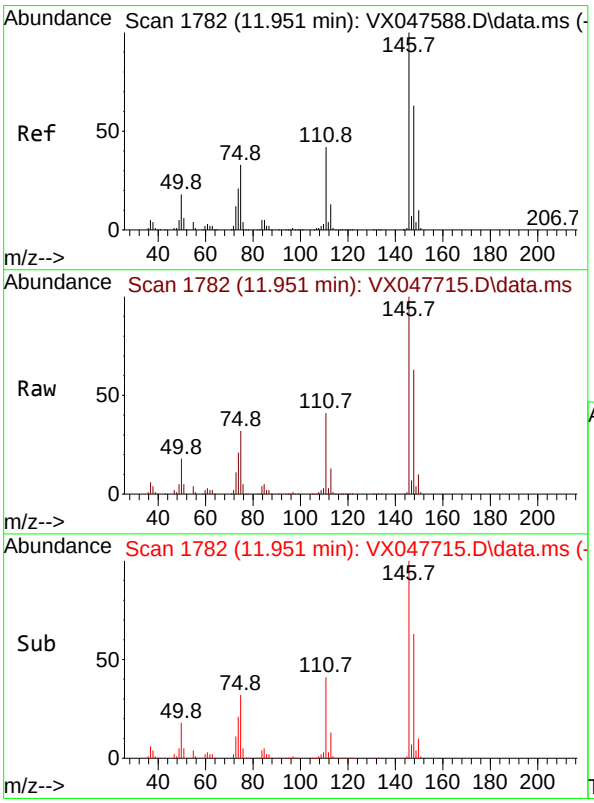
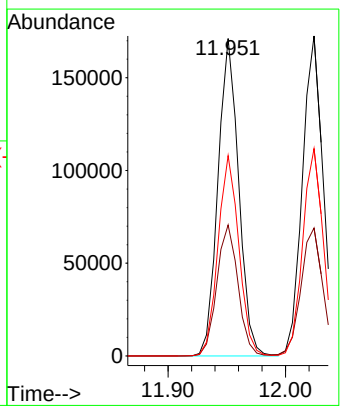
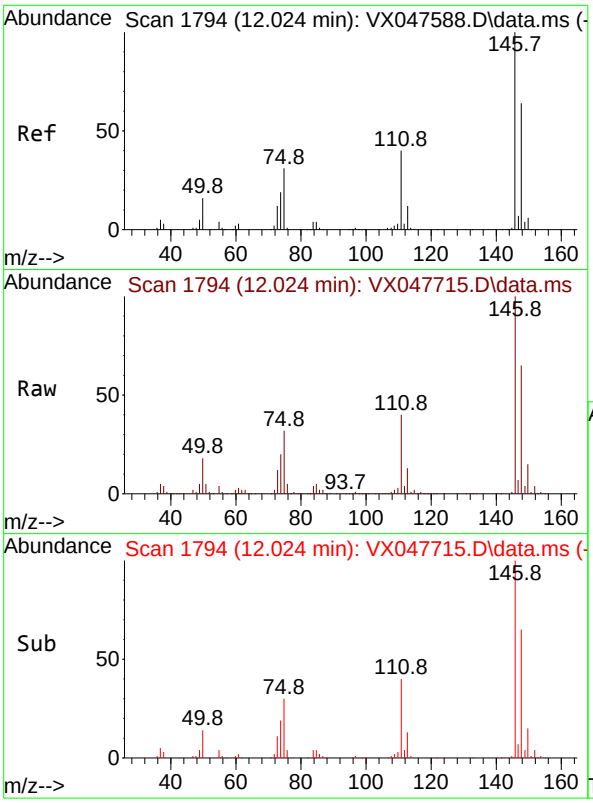


#87
1,3-Dichlorobenzene
Concen: 51.804 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:146 Resp: 209966

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.5	64.5
148	63.6	32.0	96.0

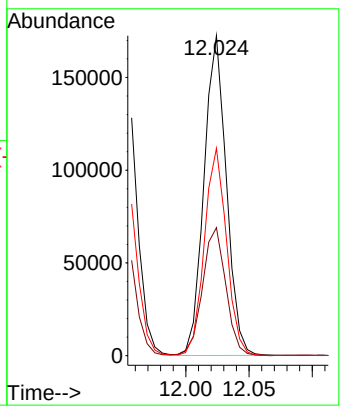




#88
1,4-Dichlorobenzene
Concen: 51.003 ug/l
RT: 12.024 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:146 Resp: 21216

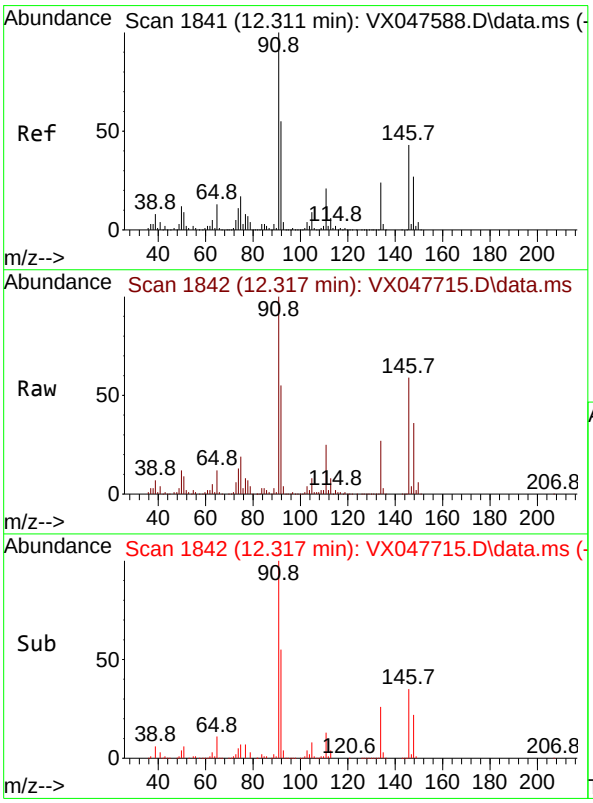
Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.8	62.4
148	64.2	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
APPROVED

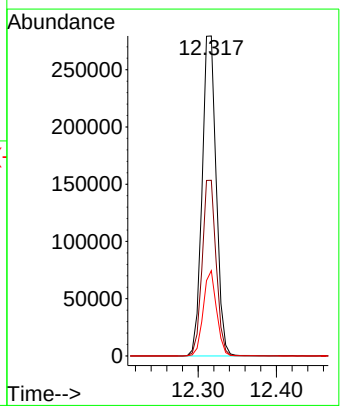
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

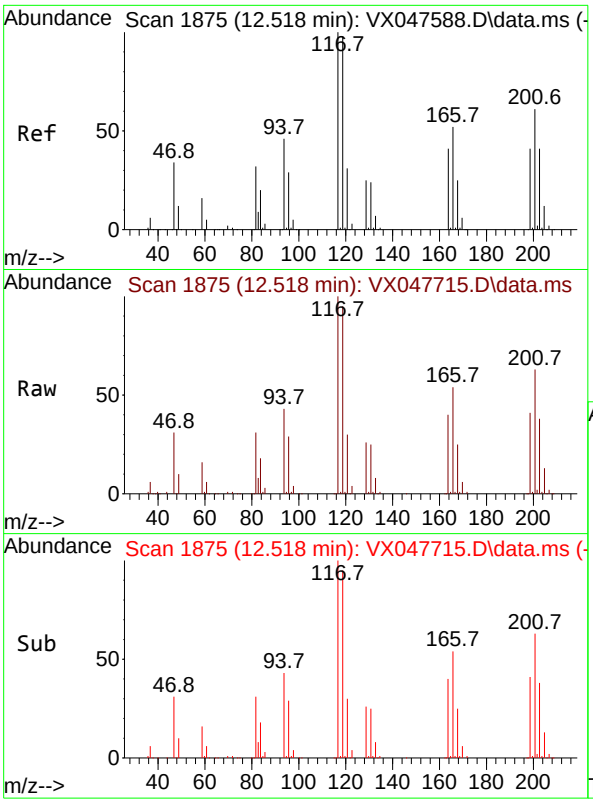


#89
n-Butylbenzene
Concen: 50.321 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 91 Resp: 348901

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.2	12.6	37.8

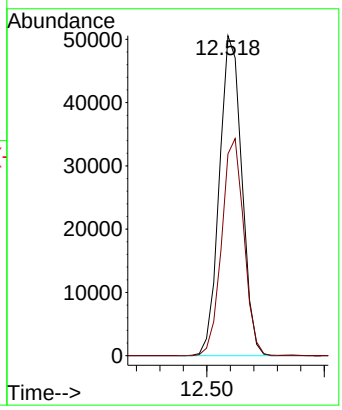




#90
Hexachloroethane
Concen: 50.993 ug/l
RT: 12.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:117 Resp: 6708

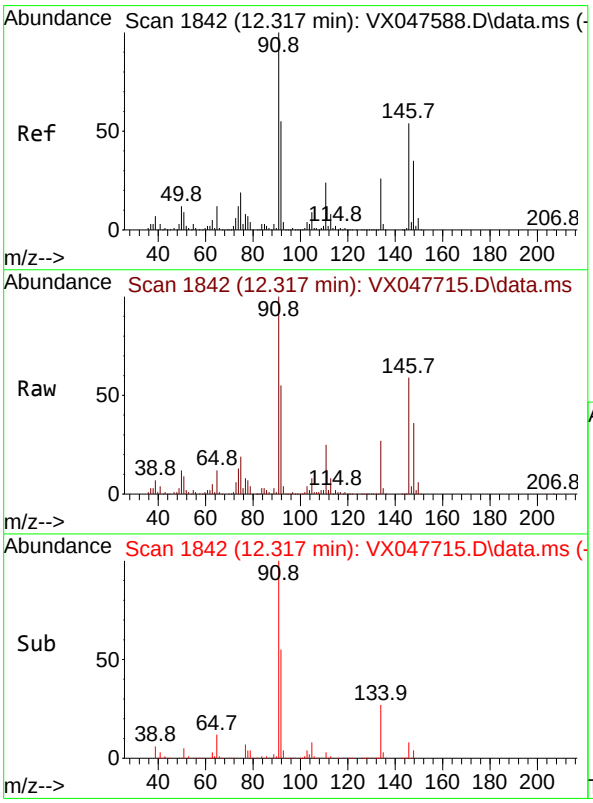
Ion	Ratio	Lower	Upper
117	100		
201	67.1	34.2	102.5



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
APPROVED

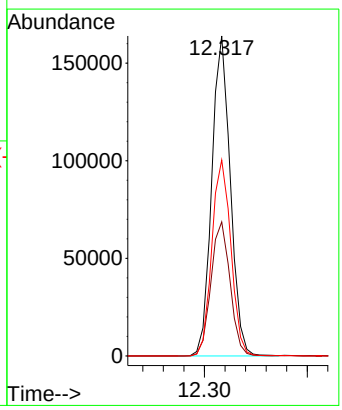
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

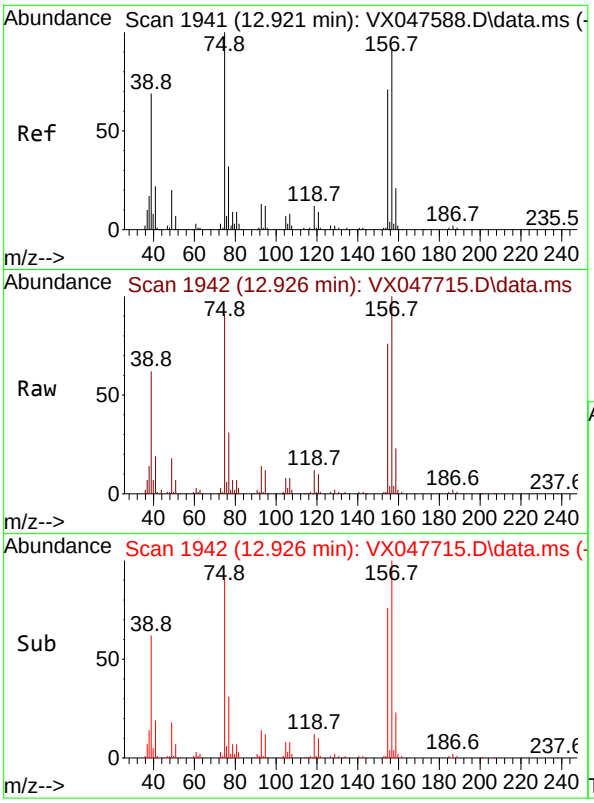


#91
1,2-Dichlorobenzene
Concen: 53.080 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:146 Resp: 204964

Ion	Ratio	Lower	Upper
146	100		
111	43.1	22.2	66.6
148	62.8	31.8	95.4

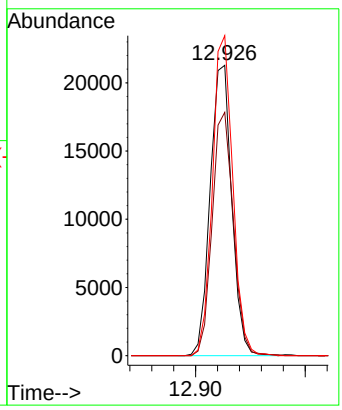




#92
1,2-Dibromo-3-Chloropropane
Concen: 53.660 ug/l
RT: 12.926 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

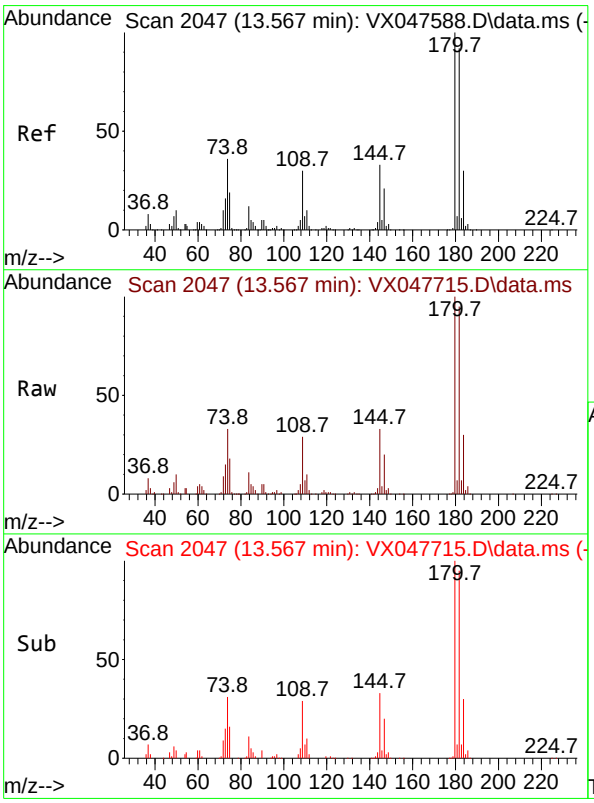
Tgt Ion: 75 Resp: 2912

Ion	Ratio	Lower	Upper
75	100		
155	82.3	37.7	113.1
157	104.0	49.8	149.4



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

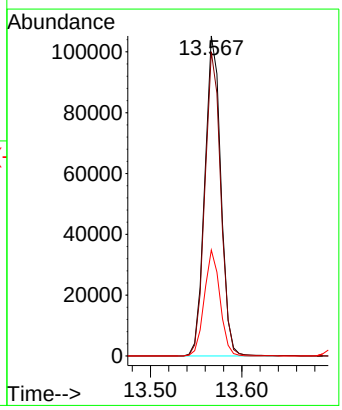
Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

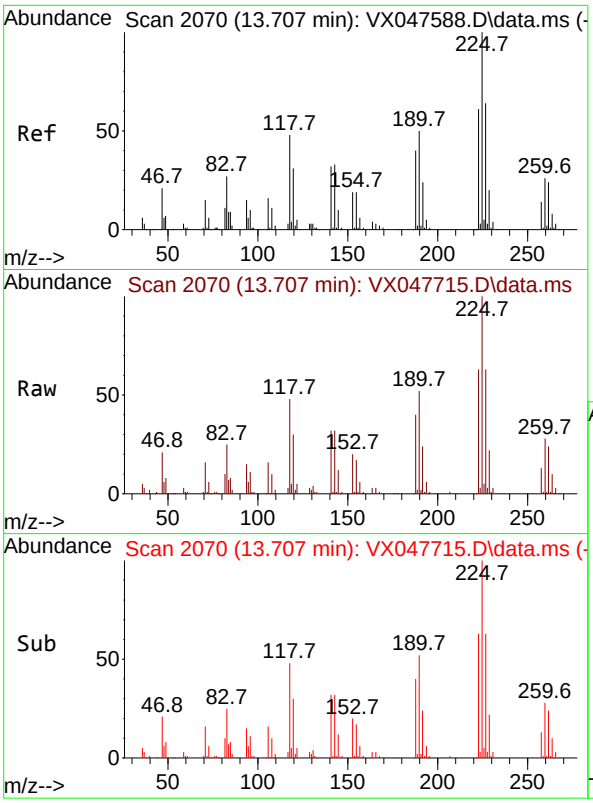


#93
1,2,4-Trichlorobenzene
Concen: 50.982 ug/l
RT: 13.567 min Scan# 2047
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:180 Resp: 127943

Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.6	139.8
145	32.2	16.4	49.1

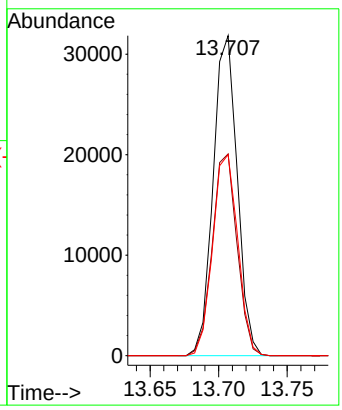




#94
Hexachlorobutadiene
Concen: 45.547 ug/l
RT: 13.707 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:225 Resp: 3882

Ion	Ratio	Lower	Upper
225	100		
223	65.1	31.7	95.1
227	65.7	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
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Reviewed By :John Carlone 09/23/2025
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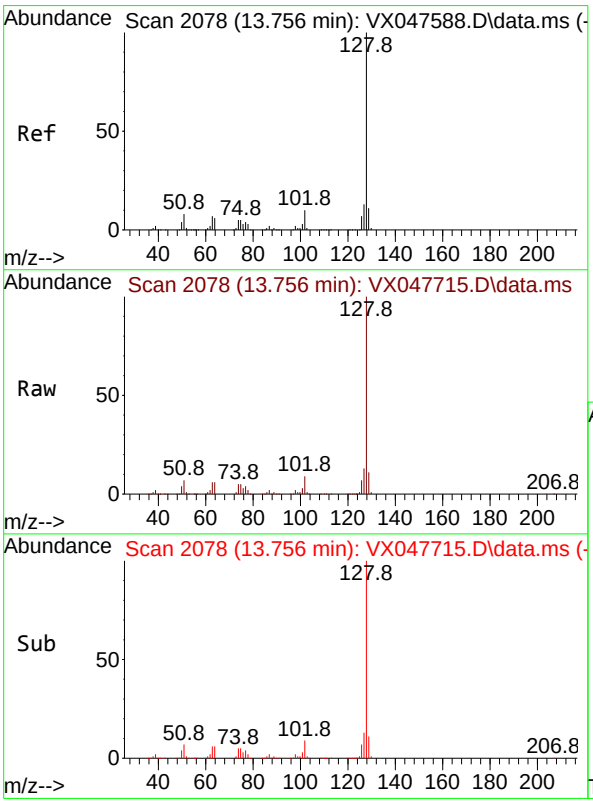
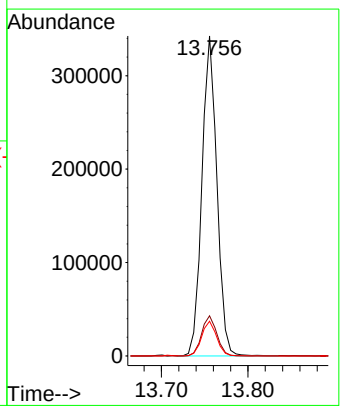
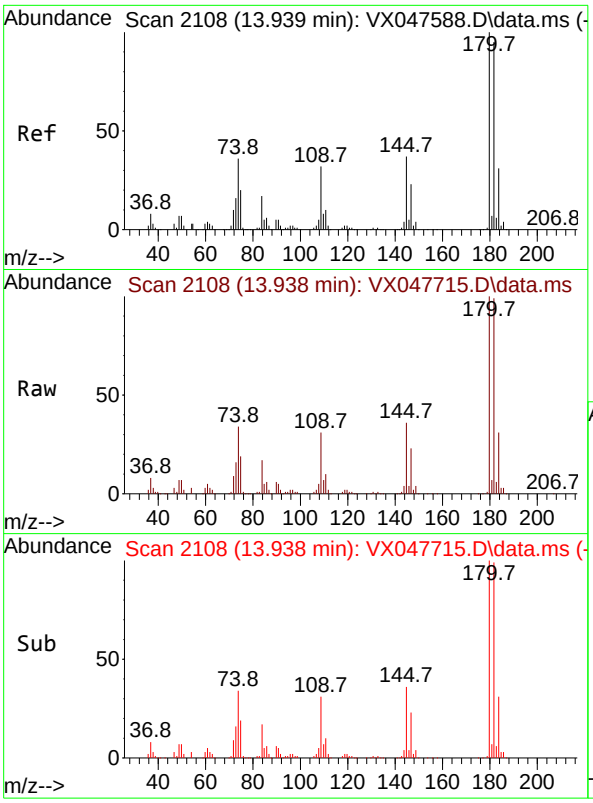


#95
Naphthalene
Concen: 53.743 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:128 Resp: 410695

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2

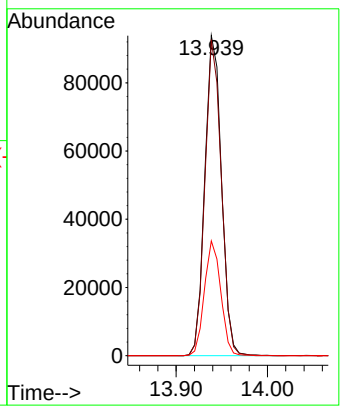




#96
1,2,3-Trichlorobenzene
Concen: 50.629 ug/l
RT: 13.938 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:180 Resp: 11819

Ion	Ratio	Lower	Upper
180	100		
182	97.2	47.6	142.8
145	35.3	17.9	53.7



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MSD	SDG No.:	Q3097
Lab Sample ID:	Q3097-03MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047716.D	1	09/22/25 19:19	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	56.0		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	54.5		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	52.9		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	55.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	51.7		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	49.7		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	50.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	50.9		0.23	0.75	1.00	ug/L
67-64-1	Acetone	210		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	52.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	51.8		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	51.2		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	51.4		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	51.7		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	51.2		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	47.3		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	260		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	45.5		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	52.0		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	52.8		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	51.9		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	50.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	44.4		0.16	0.50	1.00	ug/L
71-43-2	Benzene	49.3		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	47.7		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	320	E	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	48.9		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	48.4		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	260		0.68	2.50	5.00	ug/L
108-88-3	Toluene	48.2		0.14	0.50	1.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MSD	SDG No.:	Q3097
Lab Sample ID:	Q3097-03MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047716.D	1	09/22/25 19:19	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	48.0		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	47.9		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	50.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	250		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	50.8		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	52.6		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	46.9		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	48.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	48.1		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	97.3		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	48.5		0.12	0.50	1.00	ug/L
100-42-5	Styrene	49.0		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	50.3		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	46.2		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.1		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	46.8		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	46.8		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	47.7		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	49.5		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	46.1		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	46.6		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.6		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	53.1		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.8		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	151000	5.538				
540-36-3	1,4-Difluorobenzene	286000	6.751				
3114-55-4	Chlorobenzene-d5	257000	10.037				
3855-82-1	1,4-Dichlorobenzene-d4	125000	12.006				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	09/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	09/12/25
Client Sample ID:	RE103D2-20250911MSD	SDG No.:	Q3097
Lab Sample ID:	Q3097-03MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
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Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047716.D	1	09/22/25 19:19	VX092225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047716.D
Acq On : 22 Sep 2025 19:19
Operator : JC/MD
Sample : Q3097-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 23 01:42:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	151448	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	285571	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	256927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	125295	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	134014	55.592	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.180%			
35) Dibromofluoromethane	5.373	113	101518	53.007	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.020%			
50) Toluene-d8	8.635	98	351935	53.107	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.220%			
62) 4-Bromofluorobenzene	11.061	95	135304	53.798	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	87784	55.975	ug/l	96
3) Chloromethane	1.301	50	112252	54.461	ug/l	97
4) Vinyl Chloride	1.380	62	106654	52.861	ug/l	100
5) Bromomethane	1.618	94	70603	55.184	ug/l	99
6) Chloroethane	1.697	64	69739	51.716	ug/l	100
7) Trichlorofluoromethane	1.898	101	148942	49.718	ug/l	99
8) Diethyl Ether	2.136	74	63556	51.863	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.337	101	88962	50.786	ug/l	99
10) Methyl Iodide	2.459	142	139082	50.909	ug/l	100
11) Tert butyl alcohol	2.947	59	70300	261.840	ug/l	98
12) 1,1-Dichloroethene	2.325	96	91530	50.868	ug/l	96
13) Acrolein	2.239	56	71244	287.956	ug/l	98
14) Allyl chloride	2.666	41	180017	48.482	ug/l	98
15) Acrylonitrile	3.056	53	279714	281.266	ug/l	98
16) Acetone	2.373	43	219579	209.489	ug/l	100
17) Carbon Disulfide	2.520	76	259123	52.604	ug/l	98
18) Methyl Acetate	2.703	43	119477	51.219	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	340150	51.785	ug/l	99
20) Methylene Chloride	2.788	84	114006	51.384	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	100087	51.665	ug/l	97
22) Diisopropyl ether	3.751	45	370654	51.509	ug/l #	84
23) Vinyl Acetate	3.715	43	1452069	252.128	ug/l	100
24) 1,1-Dichloroethane	3.605	63	195788	51.190	ug/l	99
25) 2-Butanone	4.544	43	338514	258.910	ug/l	98
26) 2,2-Dichloropropane	4.471	77	131738	41.436	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	123362	51.997	ug/l	97
28) Bromochloromethane	4.885	49	88172	52.806	ug/l	100
29) Tetrahydrofuran	4.989	42	214581	272.818	ug/l	99
30) Chloroform	5.086	83	200434	51.859	ug/l	99
31) Cyclohexane	5.464	56	150653	47.293	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	165340	50.434	ug/l	99
36) 1,1-Dichloropropene	5.684	75	128843	46.039	ug/l	98
37) Ethyl Acetate	4.702	43	139040	46.402	ug/l	100
38) Carbon Tetrachloride	5.666	117	138495	45.547	ug/l	99
39) Methylcyclohexane	7.367	83	140889	44.350	ug/l	98
40) Benzene	6.025	78	418727	49.262	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047716.D
Acq On : 22 Sep 2025 19:19
Operator : JC/MD
Sample : Q3097-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 23 01:42:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations APPROVED
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	81912	52.951	ug/l	97
42) 1,2-Dichloroethane	6.074	62	154372	47.733	ug/l	99
43) Isopropyl Acetate	6.324	43	238509	48.533	ug/l	99
44) Trichloroethene	7.110	130	649824	316.221	ug/l	97
45) 1,2-Dichloropropane	7.415	63	106503	48.933	ug/l	98
46) Dibromomethane	7.568	93	76554	48.334	ug/l	95
47) Bromodichloromethane	7.805	83	158068	48.363	ug/l	98
48) Methyl methacrylate	7.677	41	120316	49.151	ug/l	97
49) 1,4-Dioxane	7.647	88	31574	1276.303	ug/l	99
51) 4-Methyl-2-Pentanone	8.561	43	713498	261.859	ug/l	100
52) Toluene	8.708	92	252290	48.176	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	160090	48.021	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	170516	47.854	ug/l	97
55) 1,1,2-Trichloroethane	9.134	97	102255	50.639	ug/l	97
56) Ethyl methacrylate	9.104	69	162921	51.375	ug/l	98
57) 1,3-Dichloropropane	9.293	76	177427	51.150	ug/l	99
59) 2-Hexanone	9.415	43	496279	253.602	ug/l	99
60) Dibromochloromethane	9.506	129	118126	50.771	ug/l	99
61) 1,2-Dibromoethane	9.592	107	108183	52.599	ug/l	100
64) Tetrachloroethene	9.262	164	78549	46.898	ug/l	95
65) Chlorobenzene	10.061	112	284028	48.661	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	97079	48.198	ug/l	98
67) Ethyl Benzene	10.177	91	484782	48.136	ug/l	99
68) m/p-Xylenes	10.287	106	364701	97.291	ug/l	98
69) o-Xylene	10.628	106	175962	48.532	ug/l	100
70) Styrene	10.640	104	311170	48.980	ug/l	98
71) Bromoform	10.787	173	75628	50.286	ug/l	98
73) Isopropylbenzene	10.945	105	440376	46.230	ug/l	99
74) N-amyl acetate	10.829	43	201619	46.415	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	144289	50.065	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	129503m	51.049	ug/l	
77) Bromobenzene	11.183	156	111648	47.588	ug/l	99
78) n-propylbenzene	11.287	91	516715	45.887	ug/l	99
79) 2-Chlorotoluene	11.347	91	322164	46.712	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	367456	46.952	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	45752	45.992	ug/l	98
82) 4-Chlorotoluene	11.439	91	380416	46.702	ug/l	98
83) tert-Butylbenzene	11.695	119	372073	46.442	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	371720	46.849	ug/l	100
85) sec-Butylbenzene	11.872	105	434981	45.710	ug/l	100
86) p-Isopropyltoluene	11.994	119	365960	45.425	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	203823	46.773	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	209139	46.761	ug/l	99
89) n-Butylbenzene	12.317	91	336544	45.146	ug/l	98
90) Hexachloroethane	12.518	117	64746	45.775	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	198212	47.743	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	28891	49.514	ug/l	97
93) 1,2,4-Trichlorobenzene	13.567	180	124512	46.147	ug/l	99
94) Hexachlorobutadiene	13.707	225	38572	42.087	ug/l	97
95) Naphthalene	13.756	128	406725	49.503	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	116912	46.580	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047716.D
Acq On : 22 Sep 2025 19:19
Operator : JC/MD
Sample : Q3097-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 23 01:42:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations APPROVED

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Supervised By :Mahesh Dadoda 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047716.D
Acq On : 22 Sep 2025 19:19
Operator : JC/MD
Sample : Q3097-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 23 01:42:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
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Instrument :
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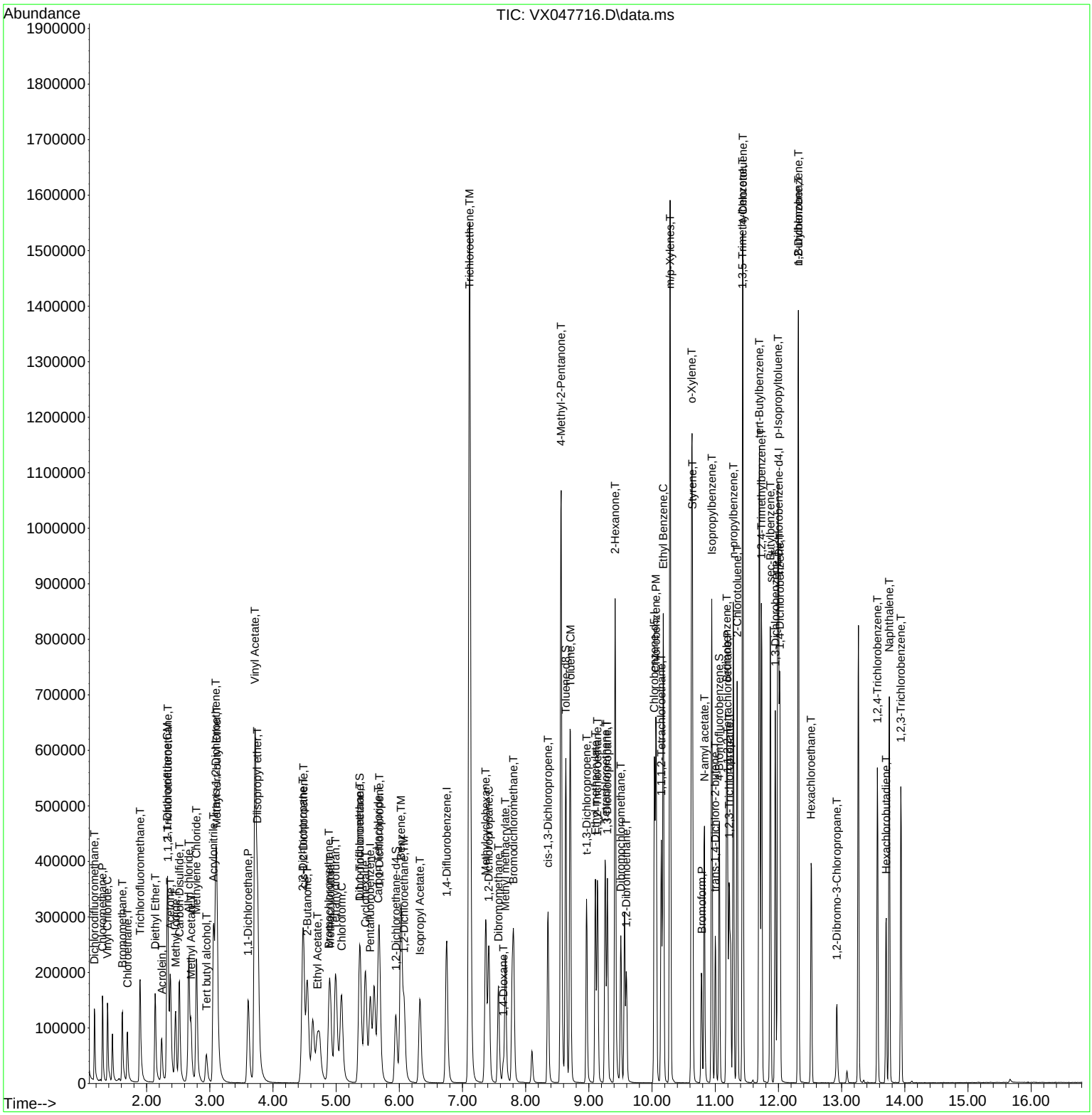
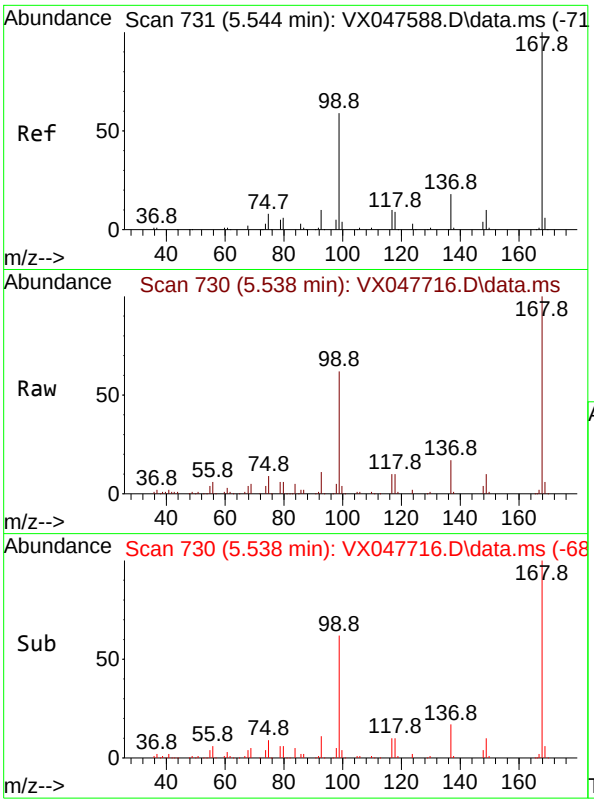
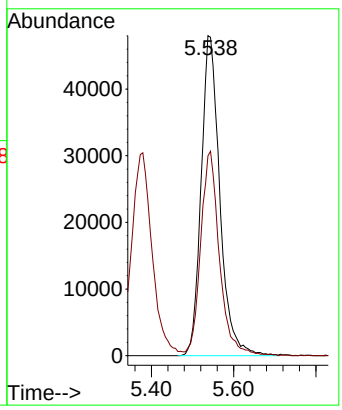




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:168 Resp: 15144

Ion	Ratio	Lower	Upper
168	100		
99	62.5	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
APPROVED

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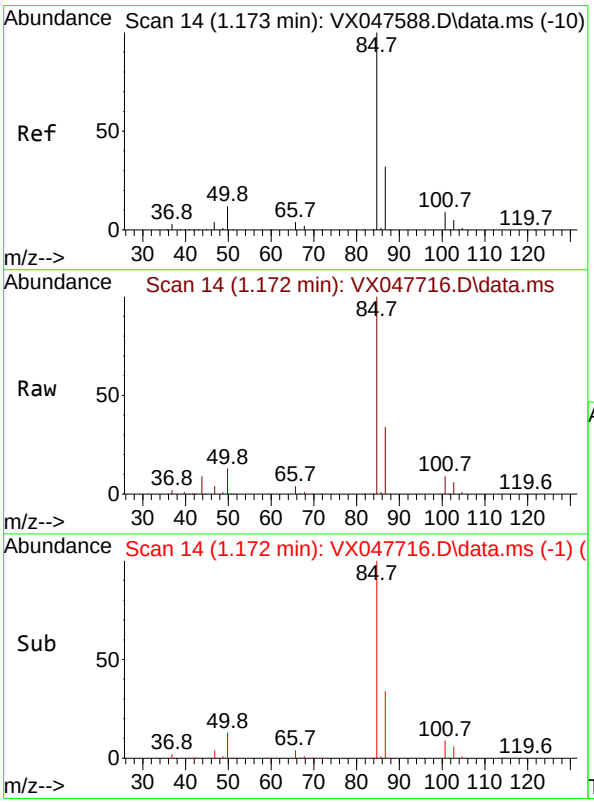
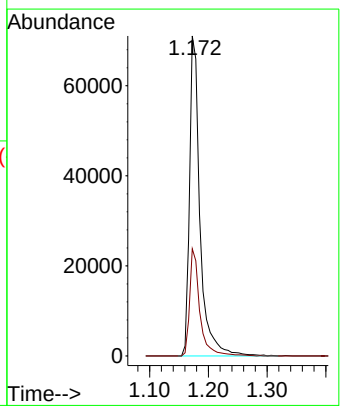
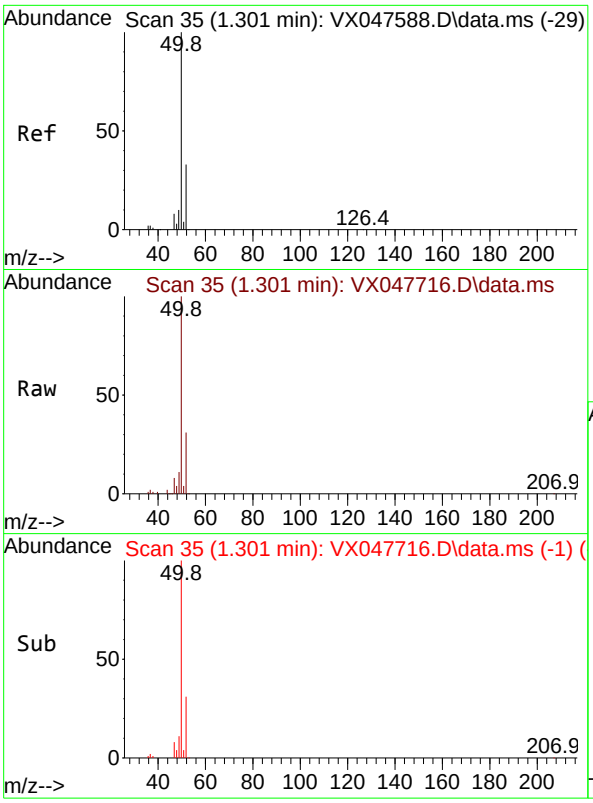


#2
Dichlorodifluoromethane
Concen: 55.975 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 85 Resp: 87784

Ion	Ratio	Lower	Upper
85	100		
87	33.5	15.8	47.3

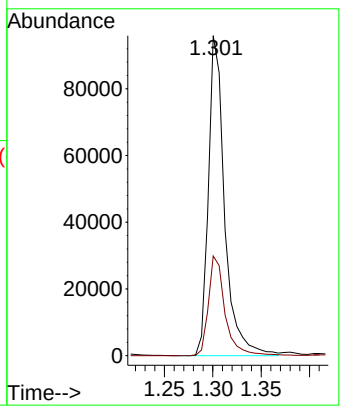




#3
Chloromethane
Concen: 54.461 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 50 Resp: 11225

Ion	Ratio	Lower	Upper
50	100		
52	31.2	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/23/2025
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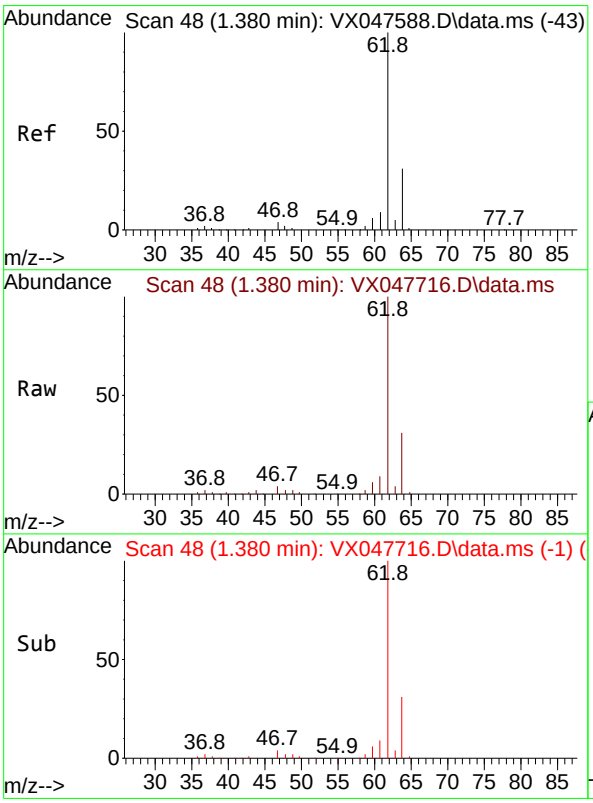
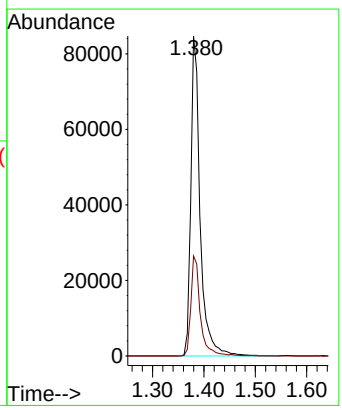
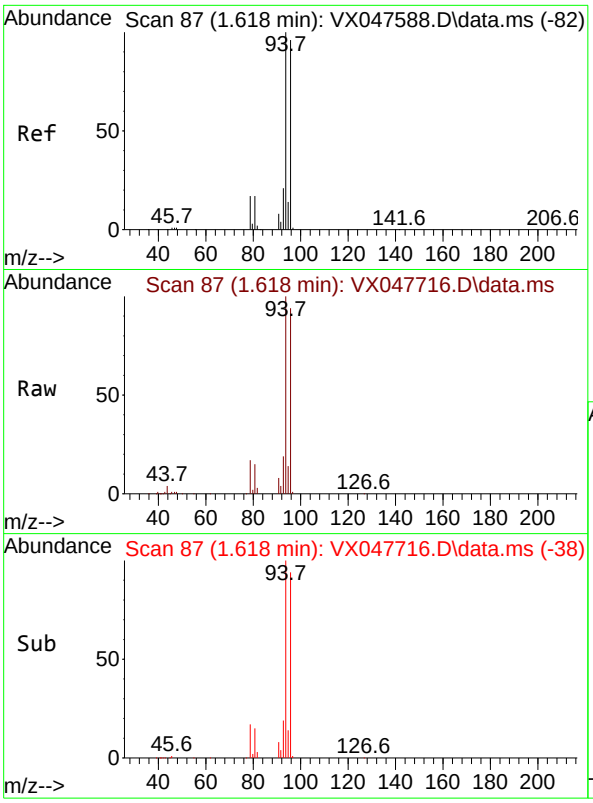


#4
Vinyl Chloride
Concen: 52.861 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 62 Resp: 106654

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.9	37.3

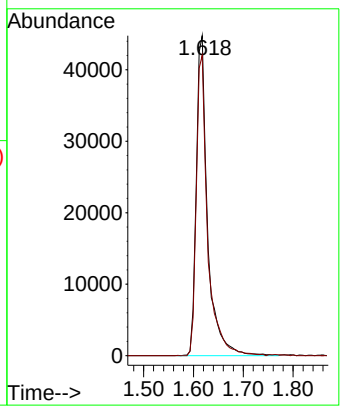




#5
Bromomethane
Concen: 55.184 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 94 Resp: 7060

Ion	Ratio	Lower	Upper
94	100		
96	94.8	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations APPROVED

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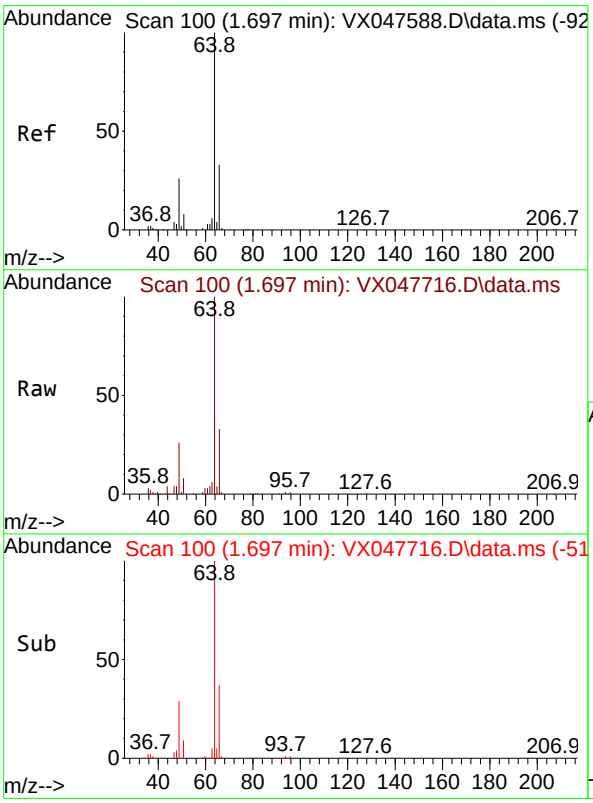
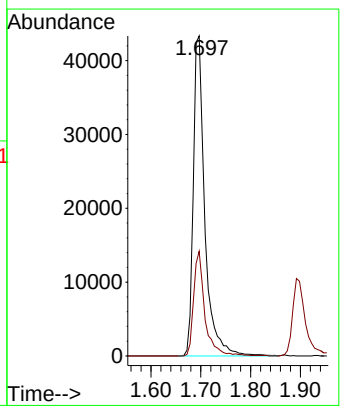
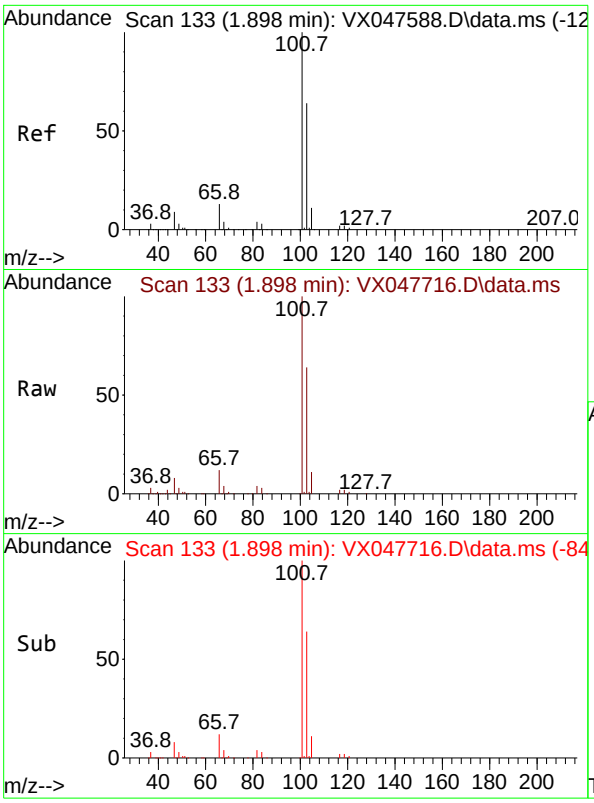


#6
Chloroethane
Concen: 51.716 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 64 Resp: 69739

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.1	39.1





#7
Trichlorofluoromethane
Concen: 49.718 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:101 Resp: 14894

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
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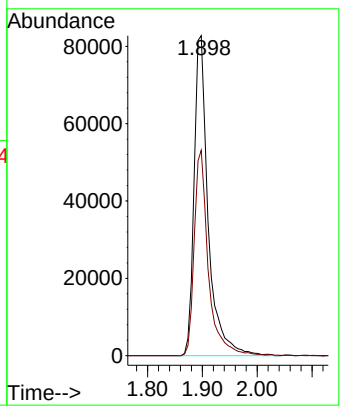
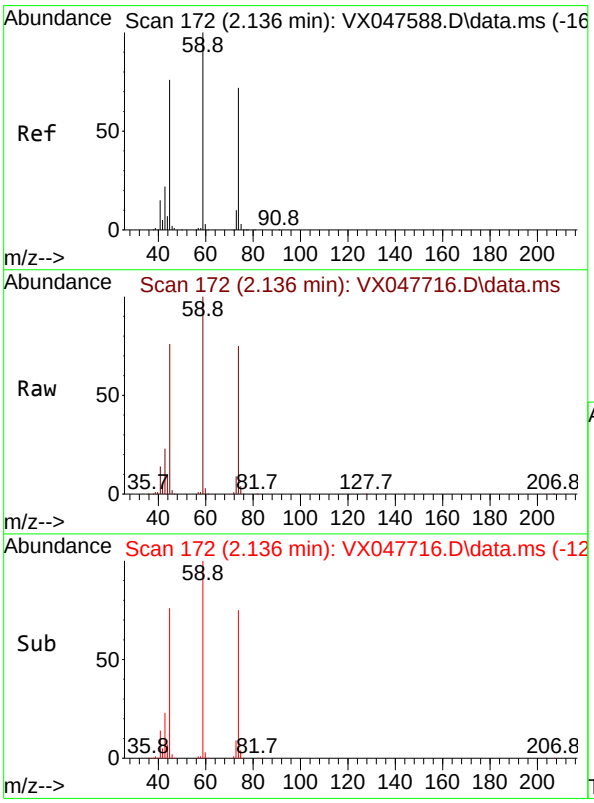
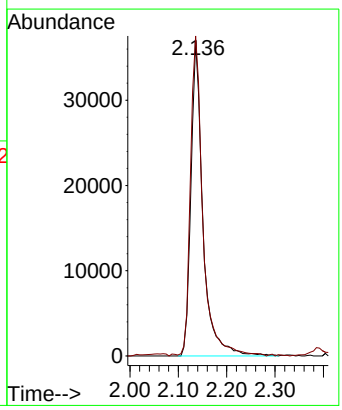


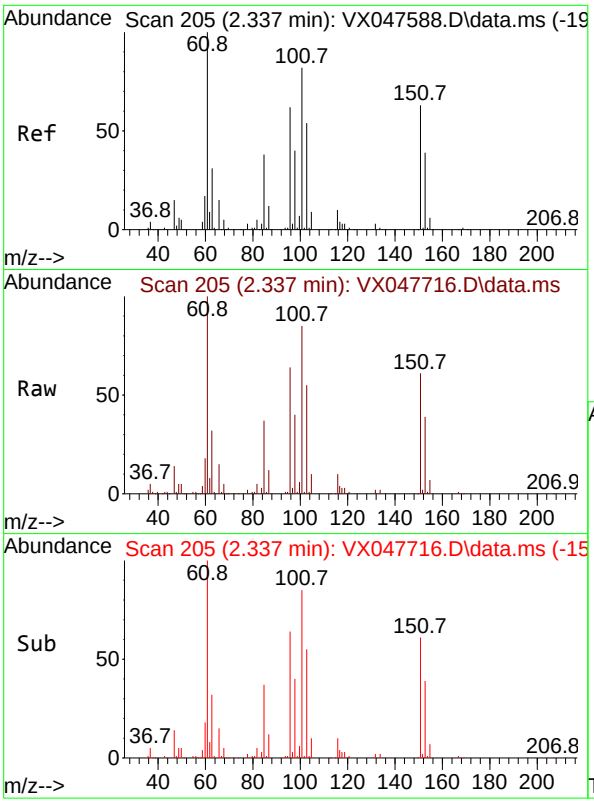


#8
Diethyl Ether
Concen: 51.863 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 74 Resp: 63556

Ion	Ratio	Lower	Upper
74	100		
45	105.8	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.786 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:101 Resp: 8896

Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	74.3	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
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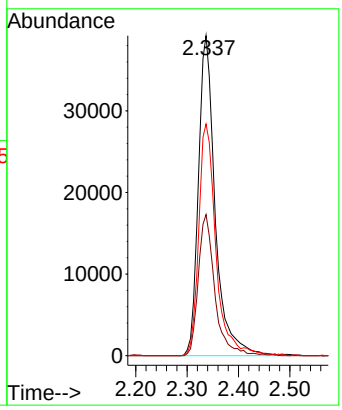
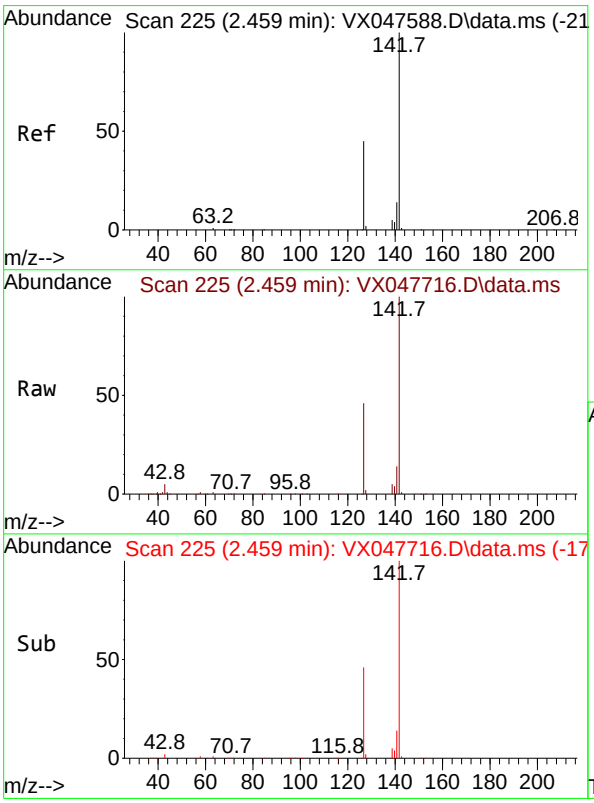
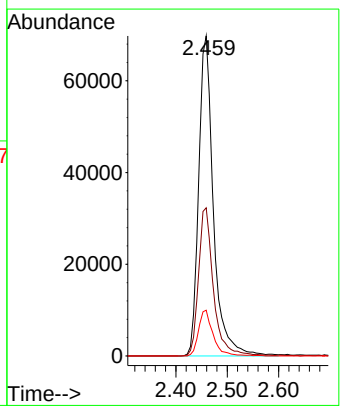


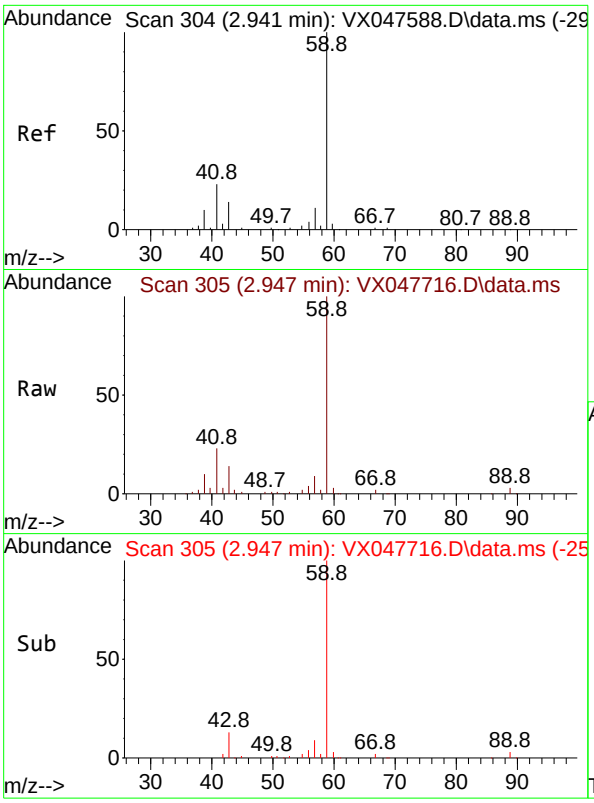


#10
Methyl Iodide
Concen: 50.909 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:142 Resp: 139082

Ion	Ratio	Lower	Upper
142	100		
127	46.9	37.2	55.8
141	14.1	11.4	17.0

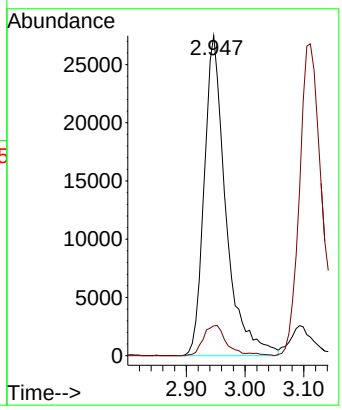




#11
Tert butyl alcohol
Concen: 261.840 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 59 Resp: 7030

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
APPROVED

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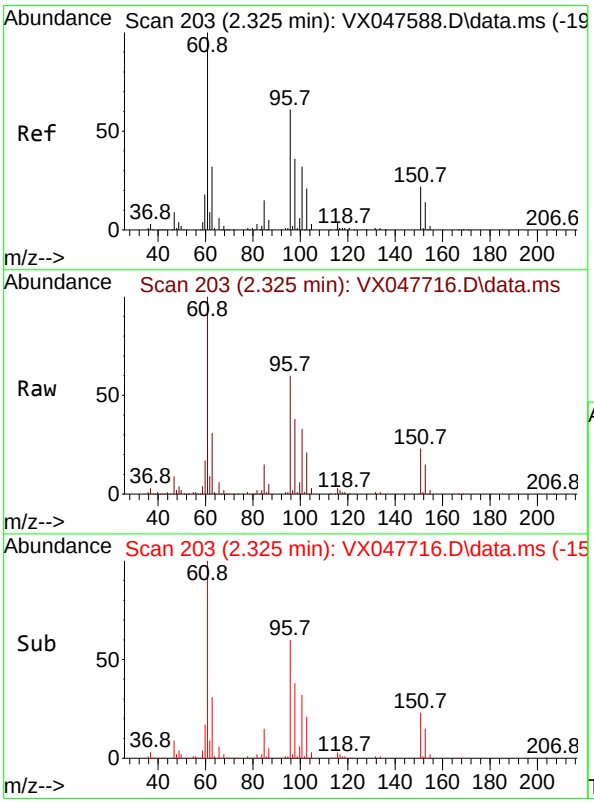
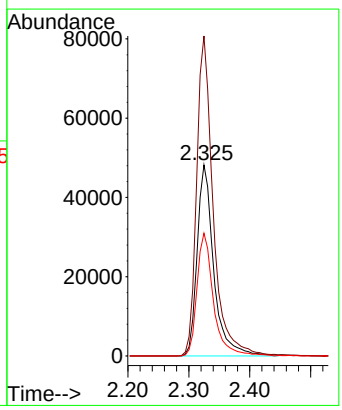
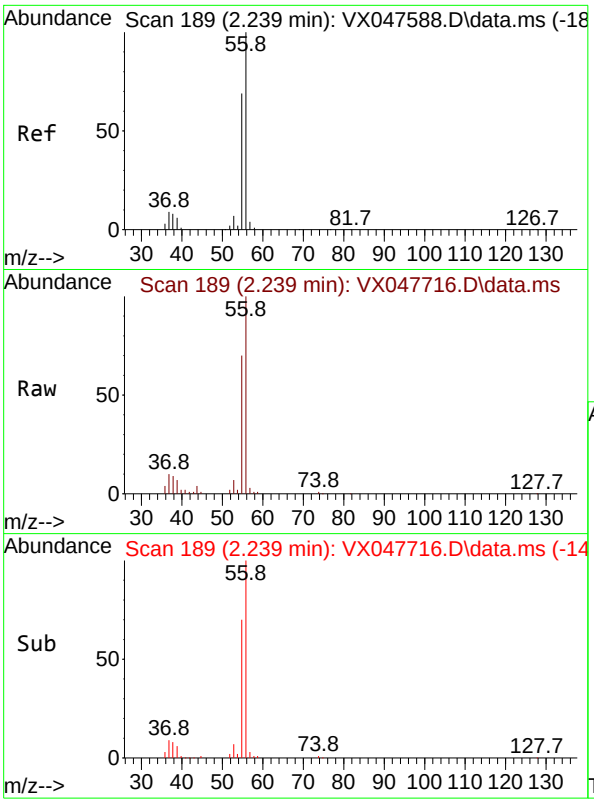


#12
1,1-Dichloroethene
Concen: 50.868 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 96 Resp: 91530

Ion	Ratio	Lower	Upper
96	100		
61	167.4	131.0	196.6
98	64.2	47.7	71.5

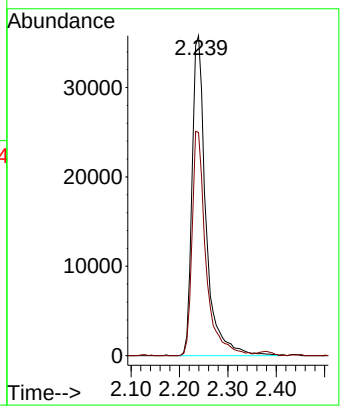




#13
Acrolein
Concen: 287.956 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 56 Resp: 7124

Ion	Ratio	Lower	Upper
56	100		
55	70.0	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
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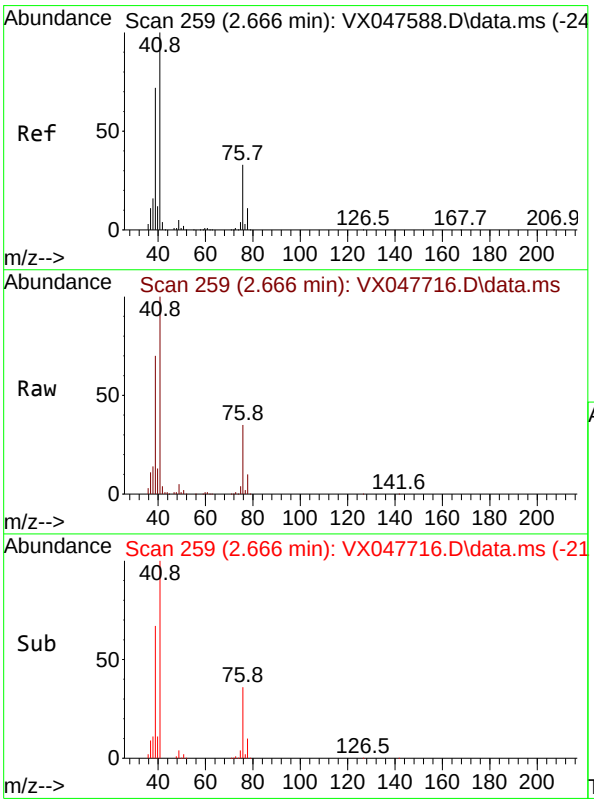
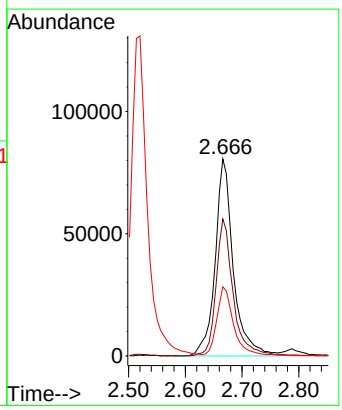
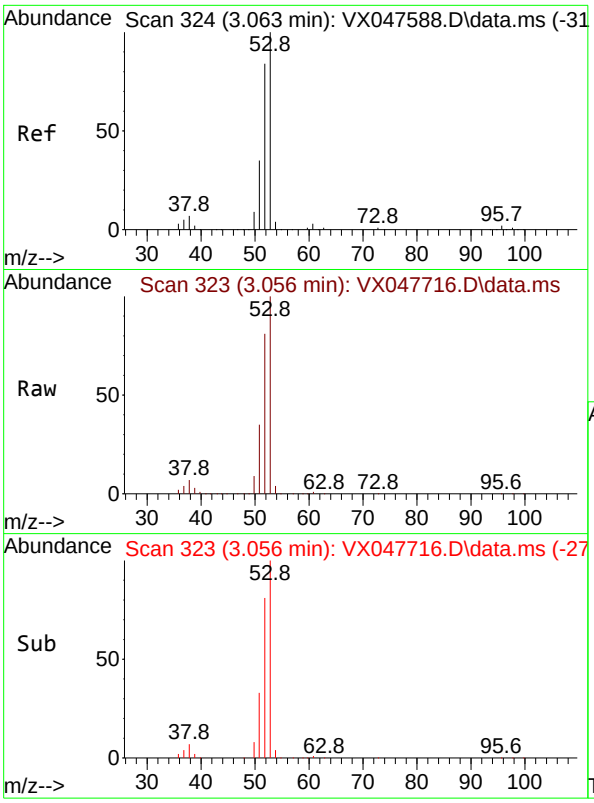


#14
Allyl chloride
Concen: 48.482 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 41 Resp: 180017

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.7	82.1
76	32.4	25.7	38.5

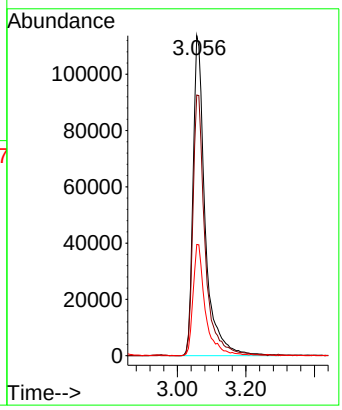




#15
Acrylonitrile
Concen: 281.266 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 53 Resp: 27971

Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.4	99.6
51	35.3	29.5	44.3



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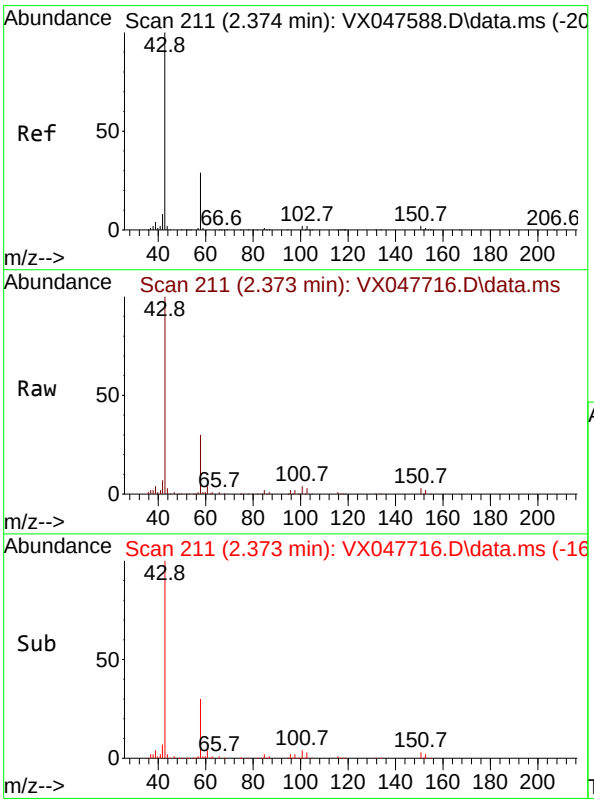
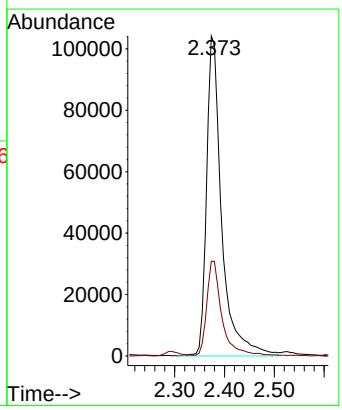
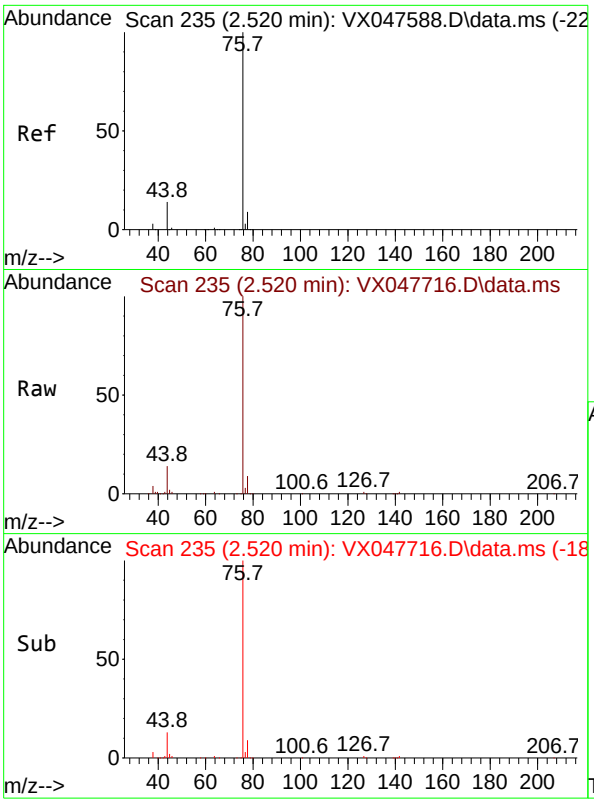


#16
Acetone
Concen: 209.489 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 219579

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0





#17
Carbon Disulfide
Concen: 52.604 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 76 Resp: 25912

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2

Instrument :
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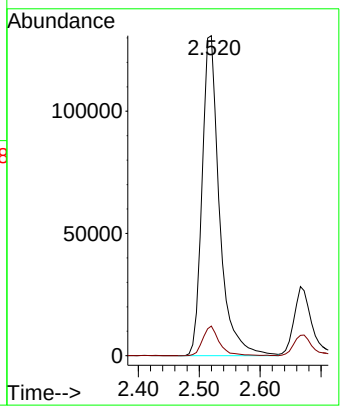
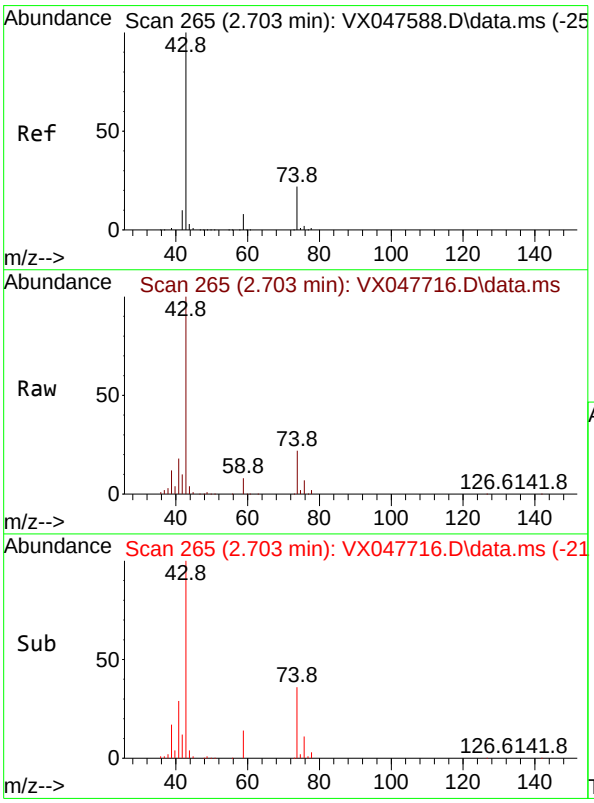
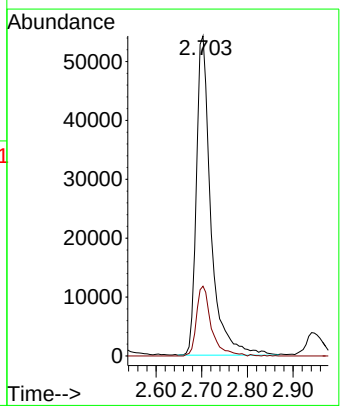


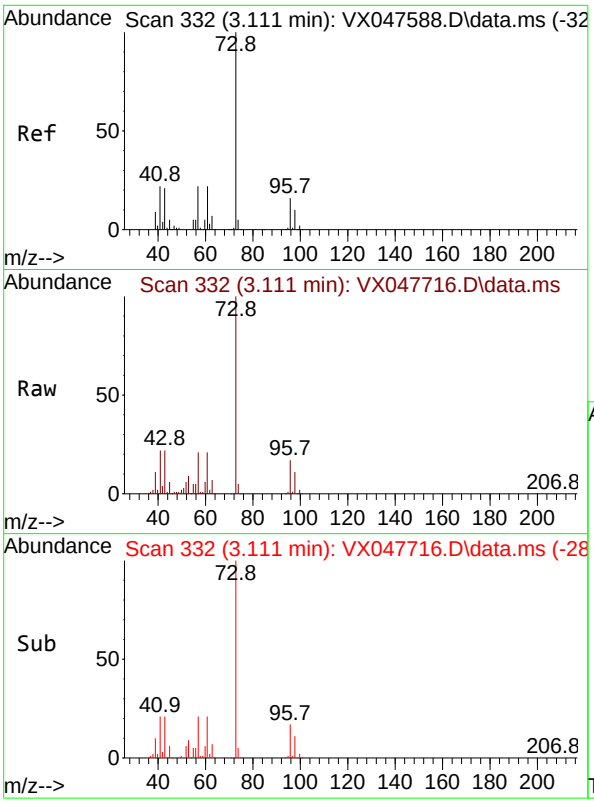


#18
Methyl Acetate
Concen: 51.219 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 119477

Ion	Ratio	Lower	Upper
43	100		
74	22.3	17.4	26.2

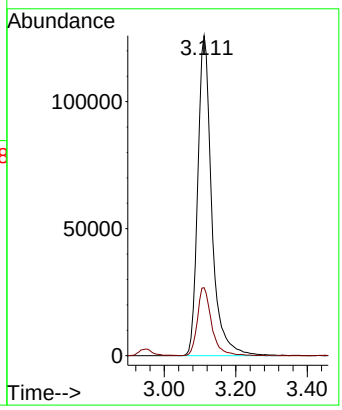




#19
Methyl tert-butyl Ether
Concen: 51.785 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 73 Resp: 34015

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.4	26.2



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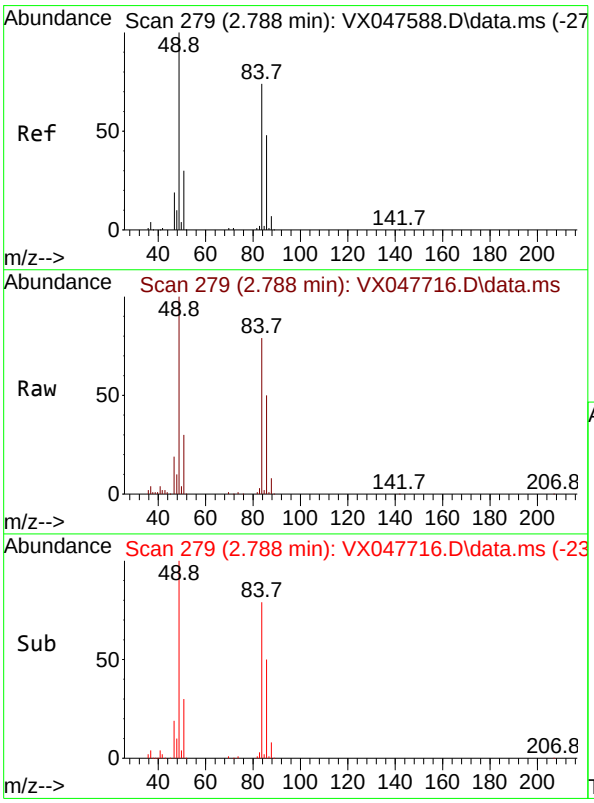
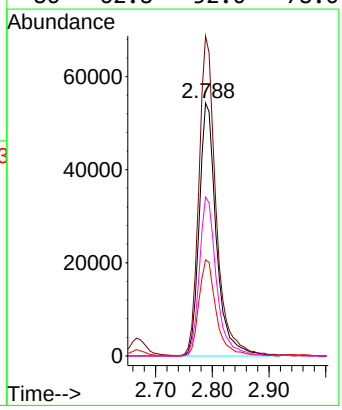
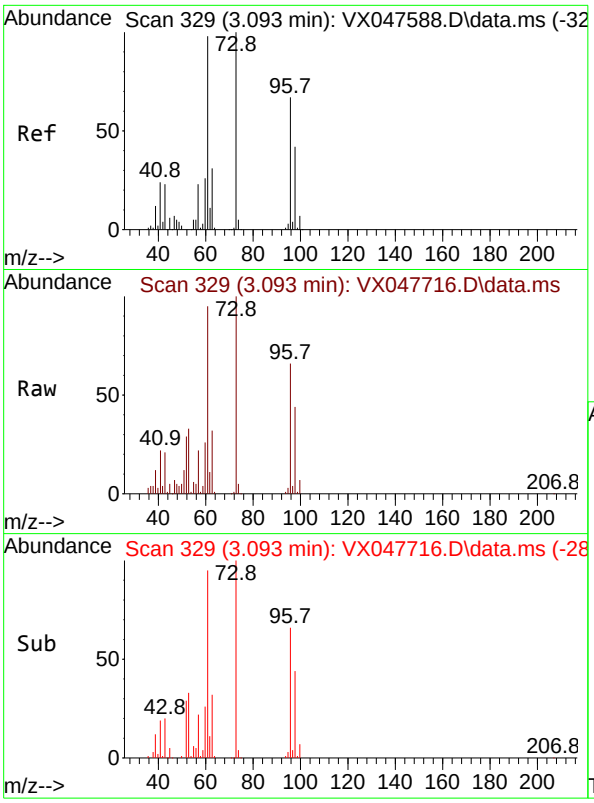


#20
Methylene Chloride
Concen: 51.384 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 84 Resp: 114006

Ion	Ratio	Lower	Upper
84	100		
49	126.3	108.6	162.8
51	38.0	32.6	48.8
86	62.8	52.0	78.0

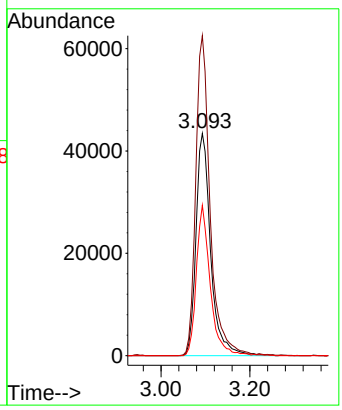




#21
trans-1,2-Dichloroethene
Concen: 51.665 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 96 Resp: 10008

Ion	Ratio	Lower	Upper
96	100		
61	144.0	116.2	174.2
98	67.7	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
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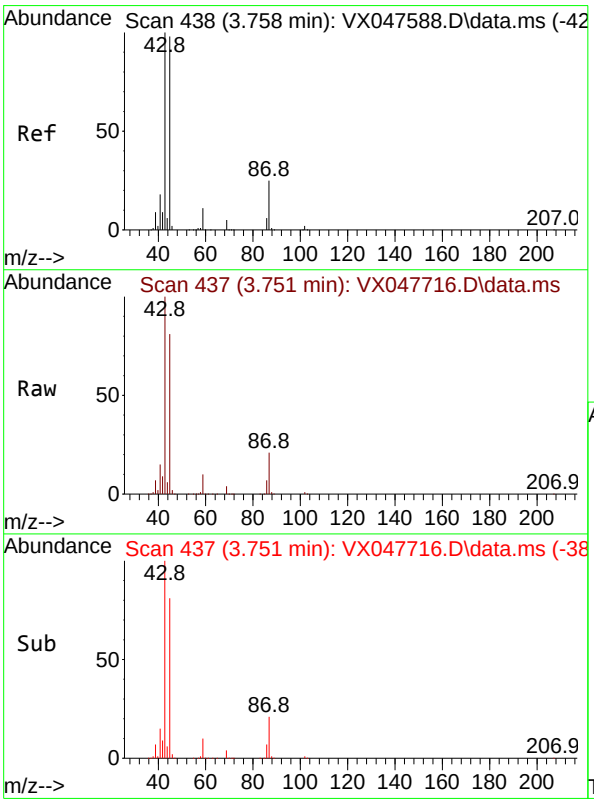
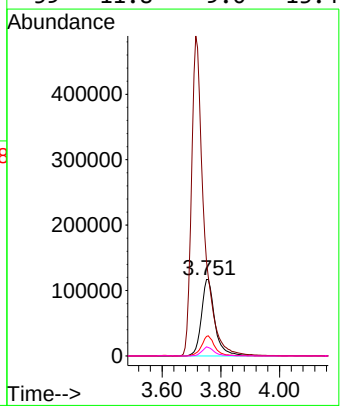
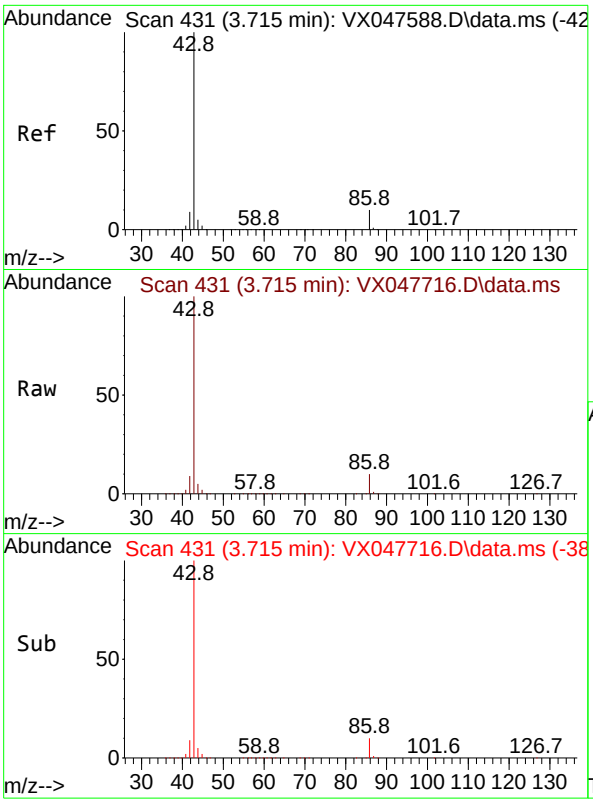


#22
Diisopropyl ether
Concen: 51.509 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 45 Resp: 370654

Ion	Ratio	Lower	Upper
45	100		
43	123.3	81.0	121.4#
87	25.6	20.3	30.5
59	11.8	9.0	13.4

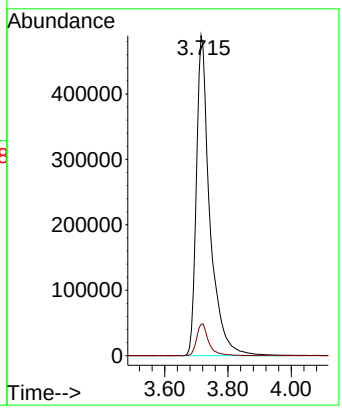




#23
Vinyl Acetate
Concen: 252.128 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 145206

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
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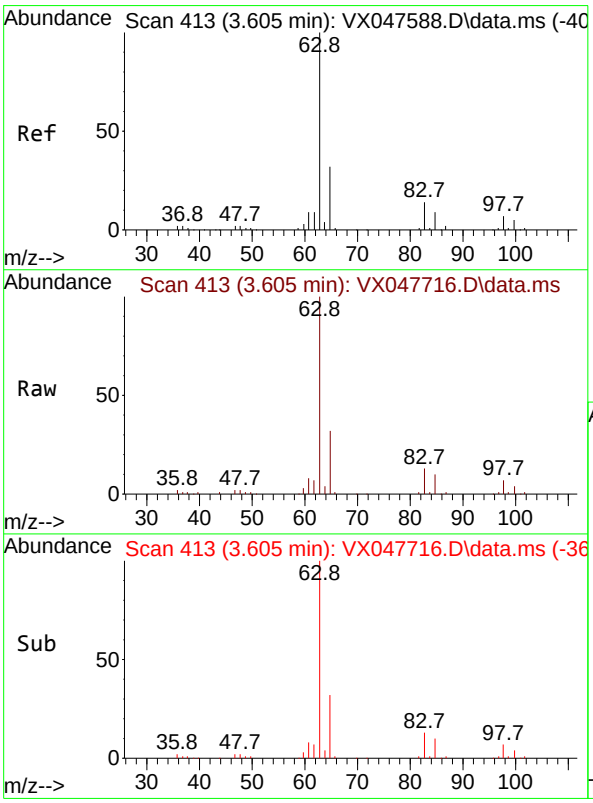
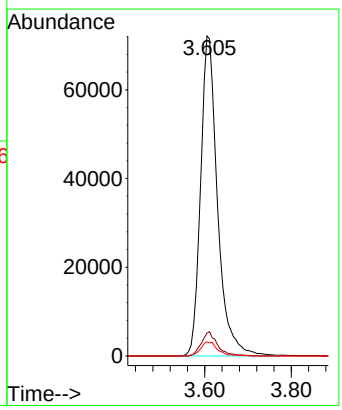
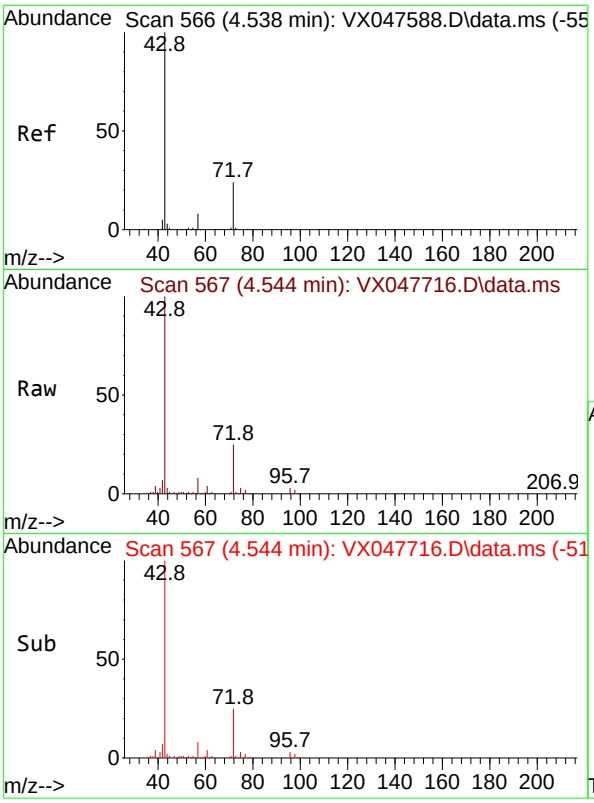


#24
1,1-Dichloroethane
Concen: 51.190 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 63 Resp: 195788

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.8	11.2
100	4.4	2.3	6.9





#25
2-Butanone
Concen: 258.910 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 33851

Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.1	30.1

Instrument :
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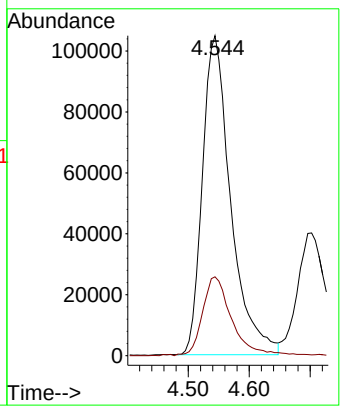
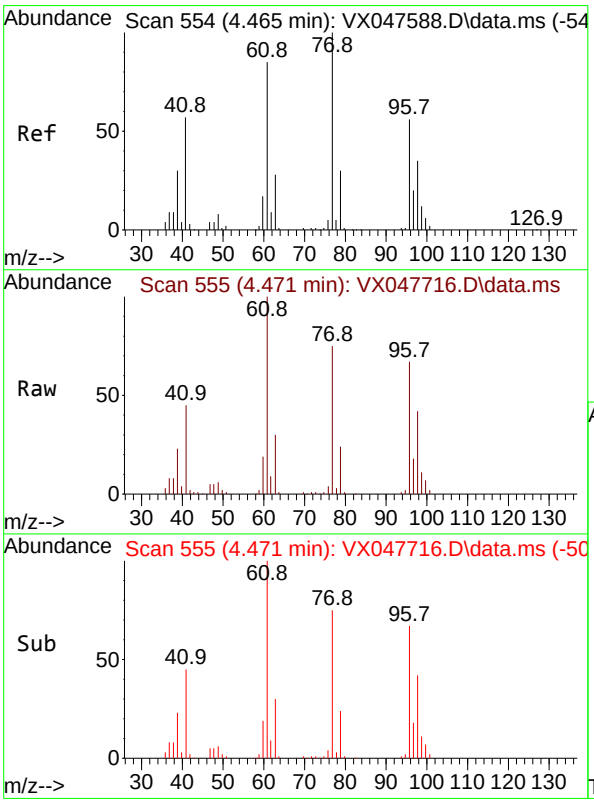
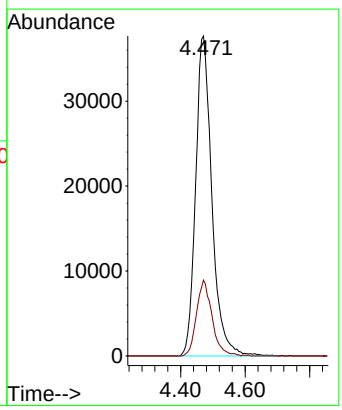


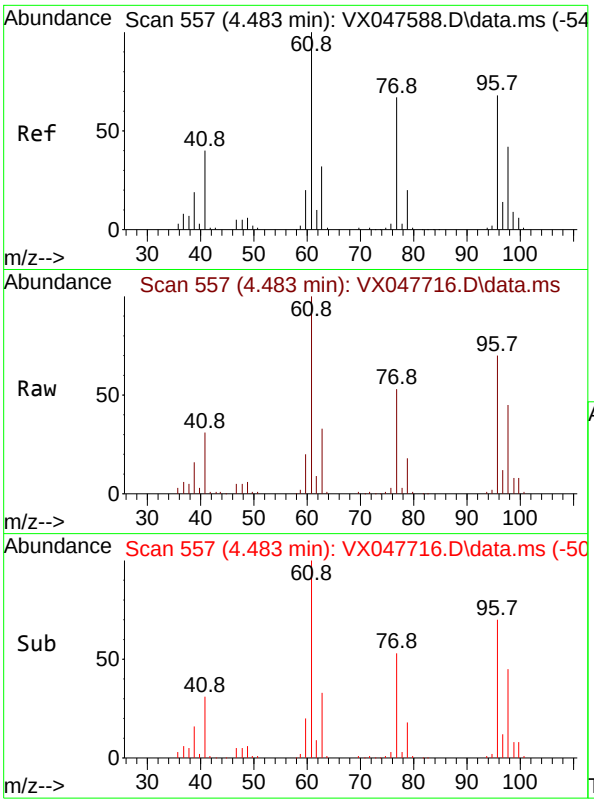


#26
2,2-Dichloropropane
Concen: 41.436 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 77 Resp: 131738

Ion	Ratio	Lower	Upper
77	100		
97	22.7	10.9	32.7

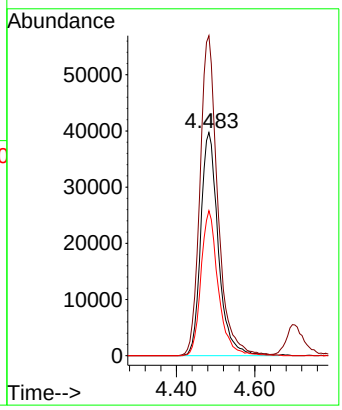




#27
cis-1,2-Dichloroethene
Concen: 51.997 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 96 Resp: 12336

Ion	Ratio	Lower	Upper
96	100		
61	145.8	0.0	303.2
98	64.0	0.0	127.8



Instrument :
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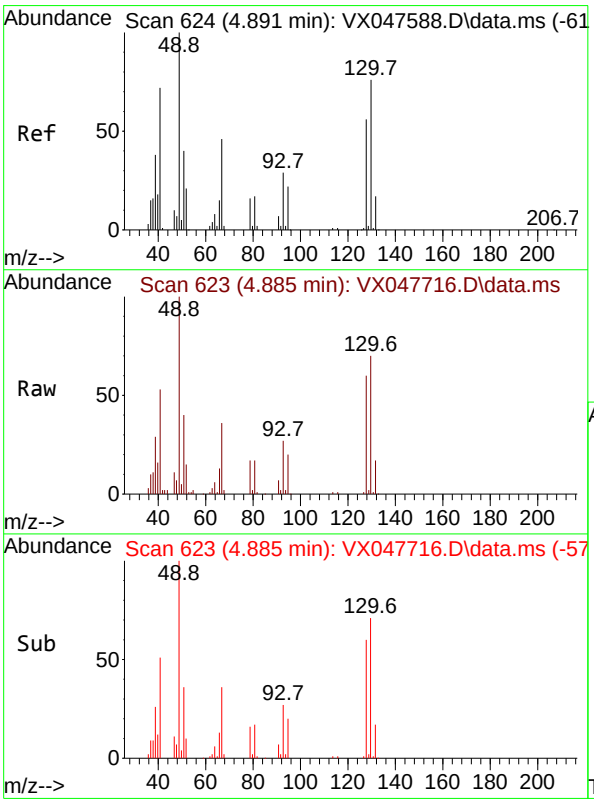
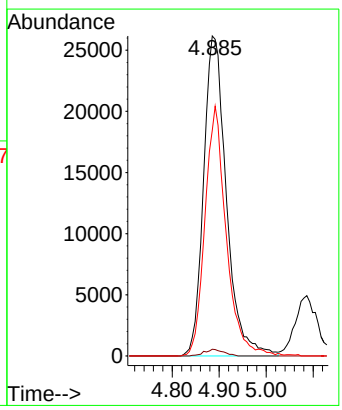
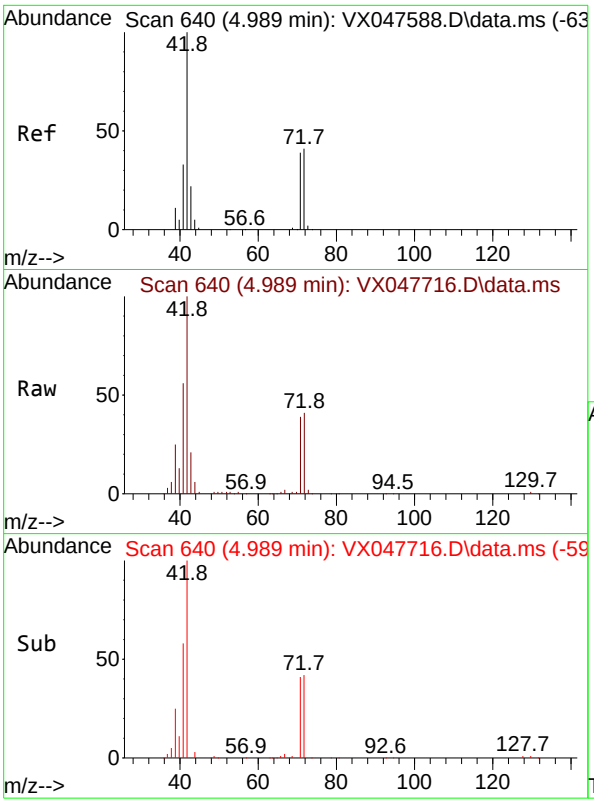


#28
Bromochloromethane
Concen: 52.806 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 49 Resp: 88172

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.7	57.8	86.8





#29
Tetrahydrofuran
Concen: 272.818 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 42 Resp: 21458

Ion	Ratio	Lower	Upper
42	100		
72	43.7	34.2	51.2
71	40.6	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
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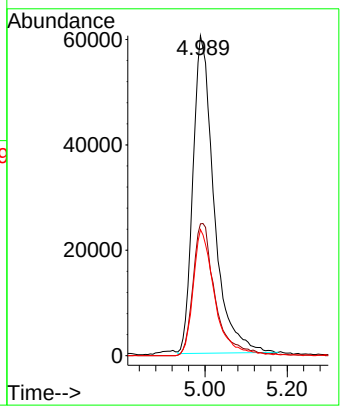
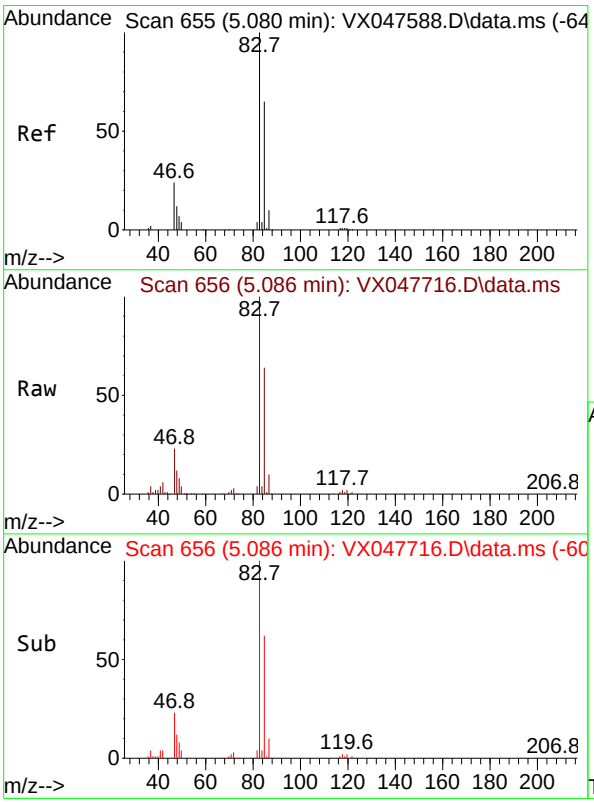
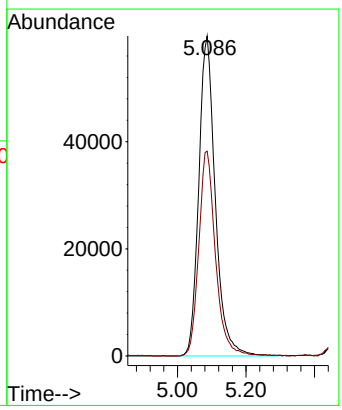


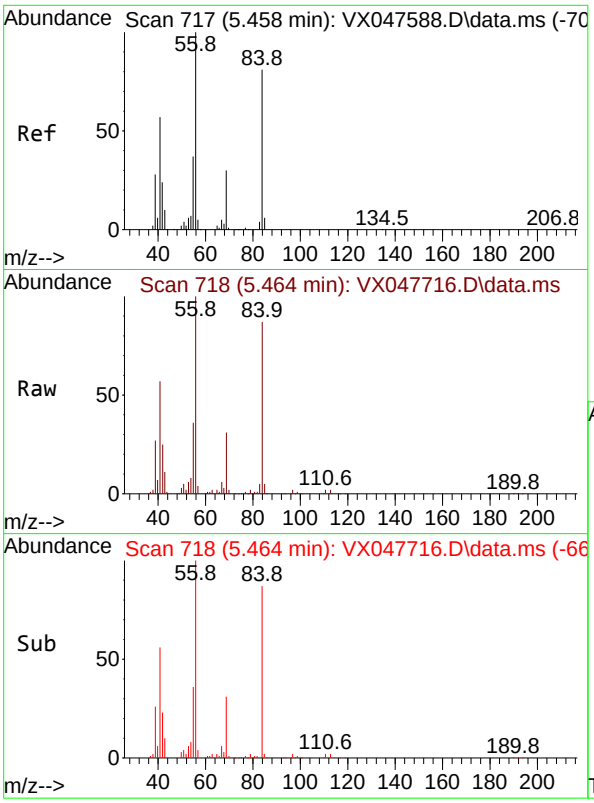


#30
Chloroform
Concen: 51.859 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 83 Resp: 200434

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.8	77.6

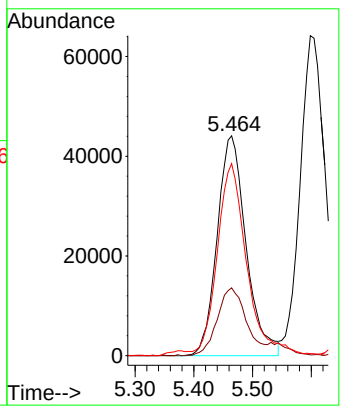




#31
Cyclohexane
Concen: 47.293 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 56 Resp: 15065

Ion	Ratio	Lower	Upper
56	100		
69	30.4	23.8	35.8
84	85.1	64.6	97.0



Instrument :
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ClientSampleId :
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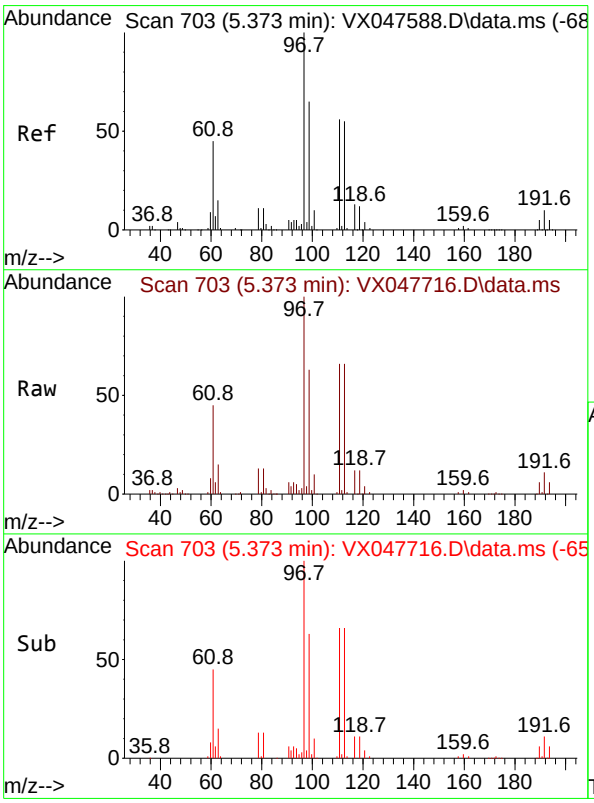
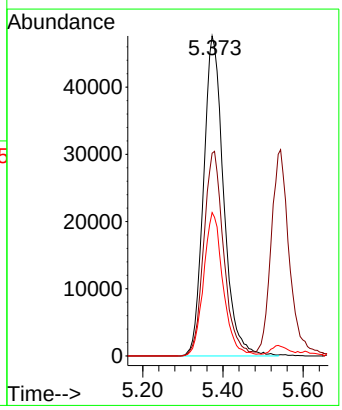
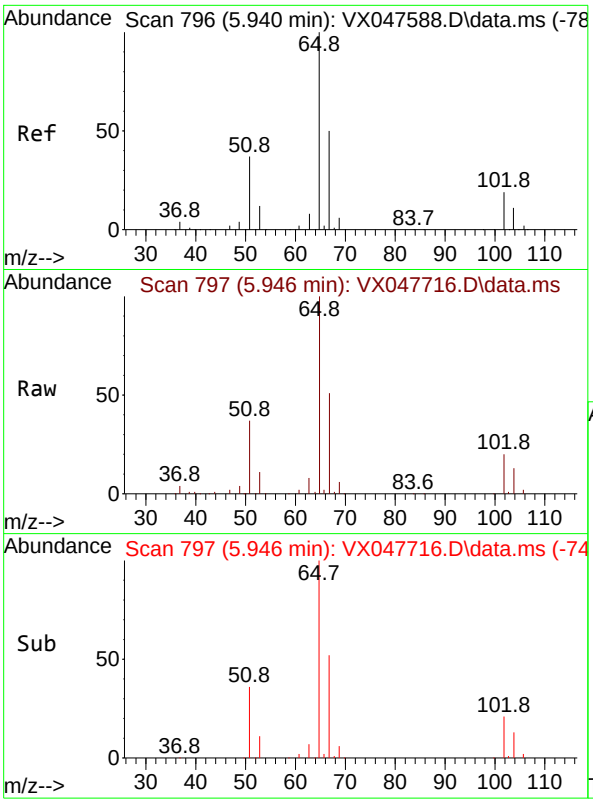


#32
1,1,1-Trichloroethane
Concen: 50.434 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 97 Resp: 165340

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	43.7	35.8	53.8

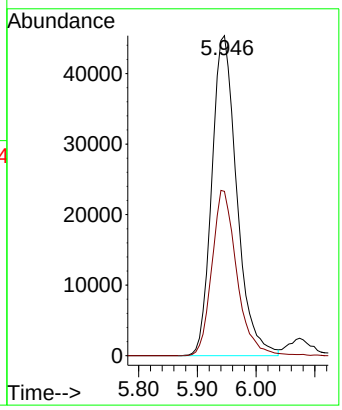




#33
1,2-Dichloroethane-d4
Concen: 55.592 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 65 Resp: 13401

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	103.0



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ClientSampleId :
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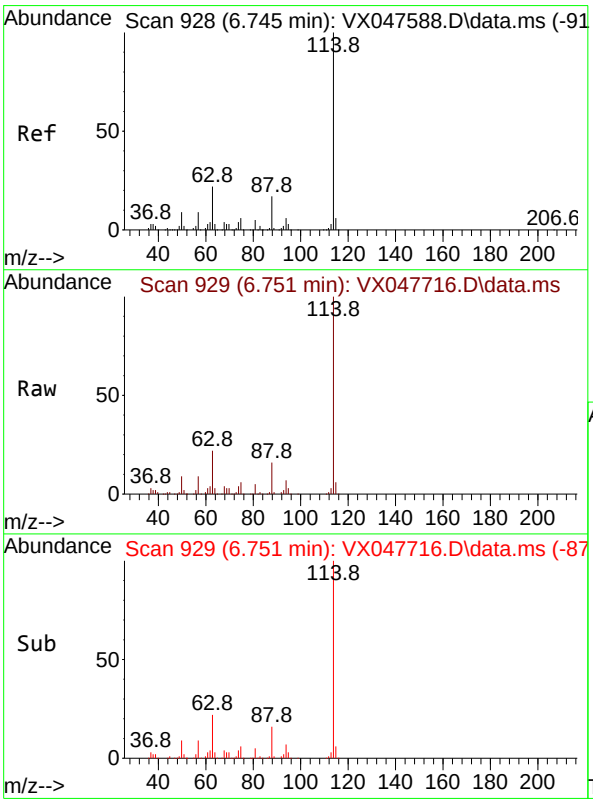
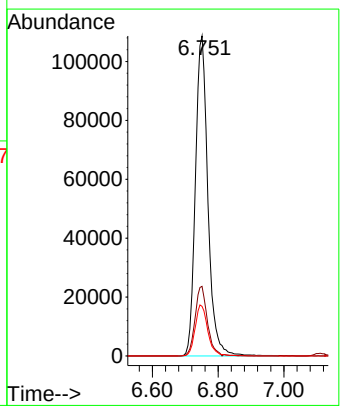
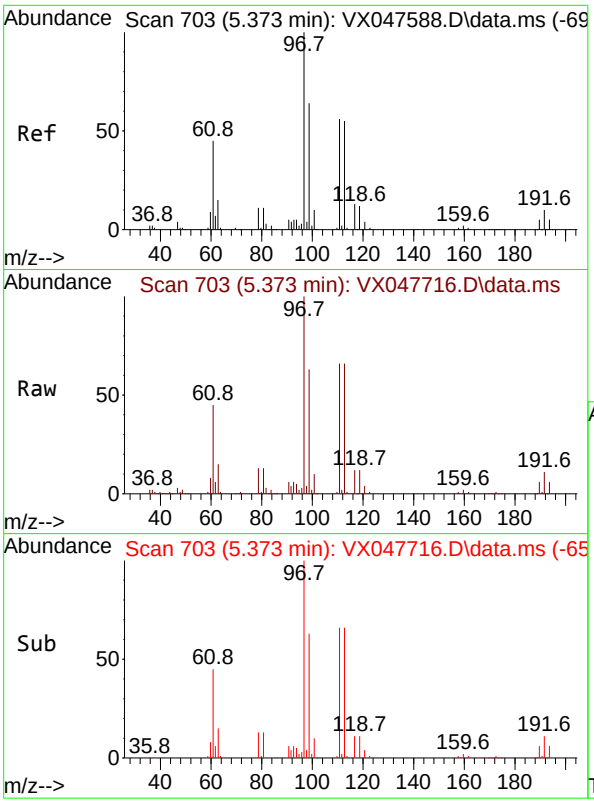


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:114 Resp: 285571

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.0
88	15.5	0.0	34.2

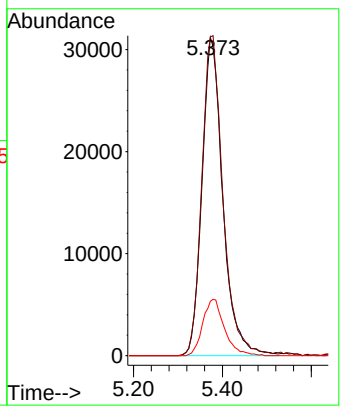




#35
Dibromofluoromethane
Concen: 53.007 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:113 Resp: 10151

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.9	121.3
192	18.5	14.2	21.4



Instrument :
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ClientSampleId :
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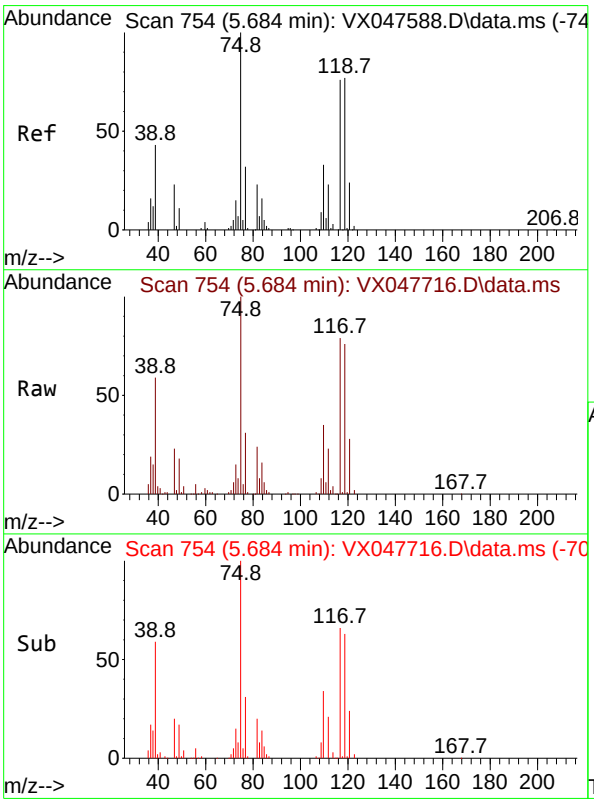
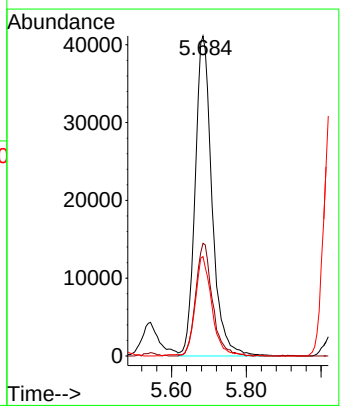
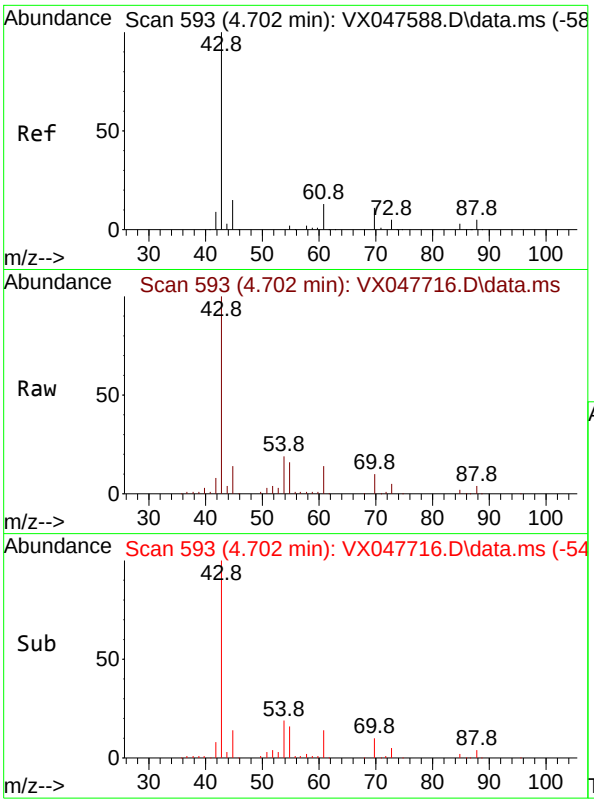


#36
1,1-Dichloropropene
Concen: 46.039 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 75 Resp: 128843

Ion	Ratio	Lower	Upper
75	100		
110	35.0	16.7	50.1
77	30.9	24.3	36.5





#37
Ethyl Acetate
Concen: 46.402 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 13904

Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.8	14.8
70	10.0	7.9	11.9

Instrument :
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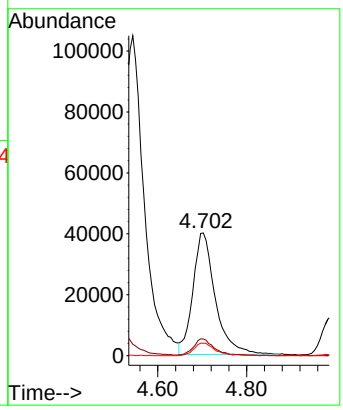
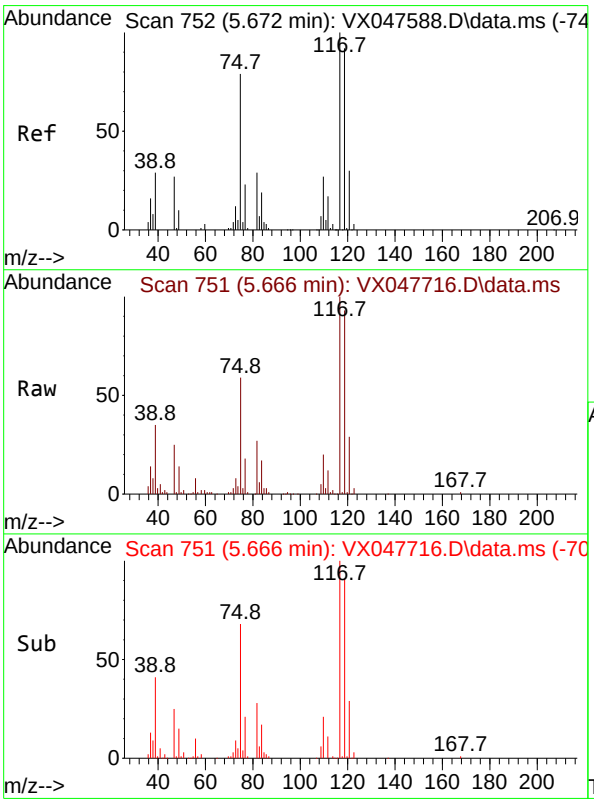
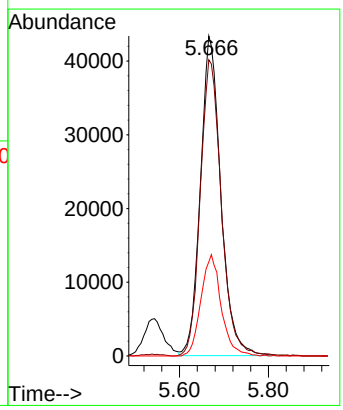


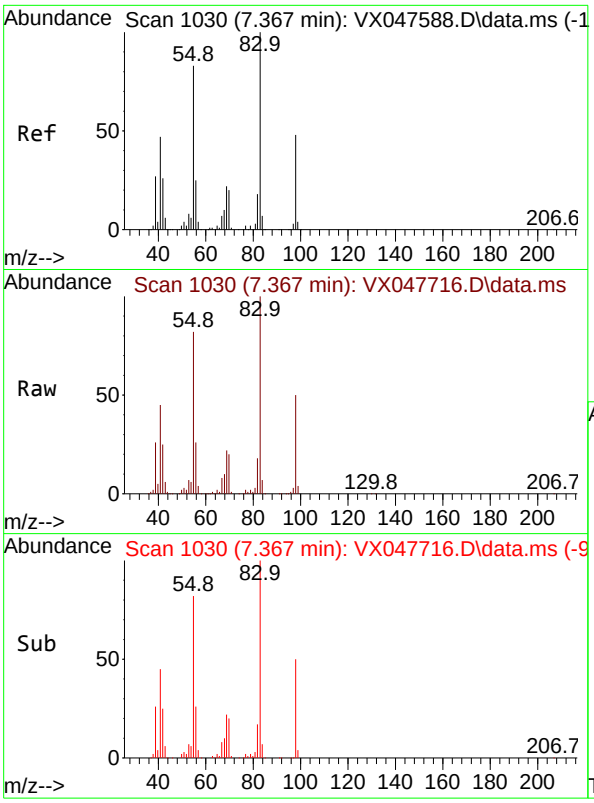


#38
Carbon Tetrachloride
Concen: 45.547 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:117 Resp: 138495

Ion	Ratio	Lower	Upper
117	100		
119	92.4	73.4	110.2
121	29.5	23.8	35.6

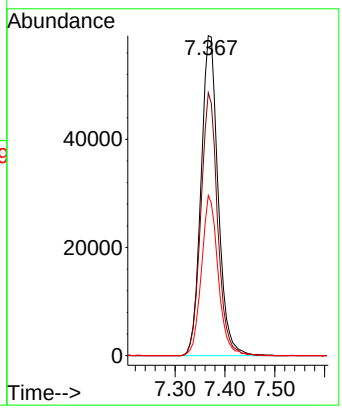




#39
Methylcyclohexane
Concen: 44.350 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 83 Resp: 14088

Ion	Ratio	Lower	Upper
83	100		
55	82.1	66.4	99.6
98	50.1	38.1	57.1



Instrument :
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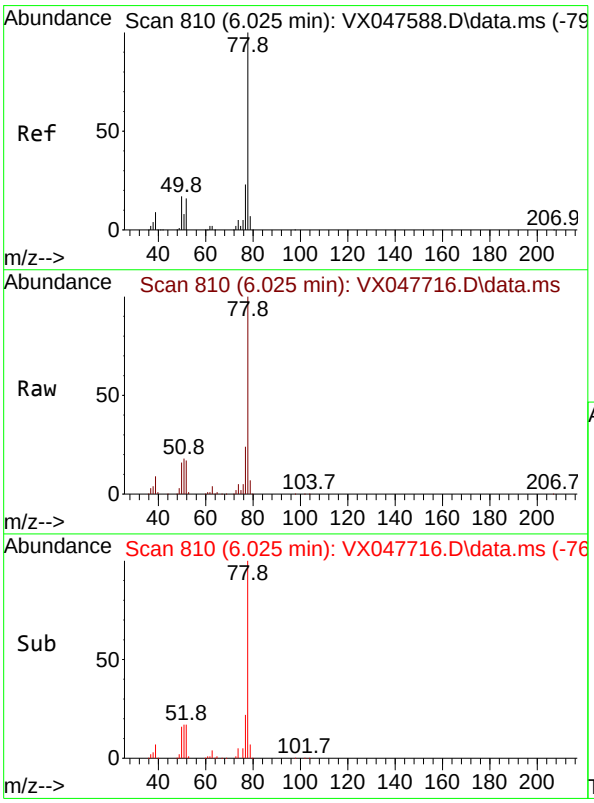
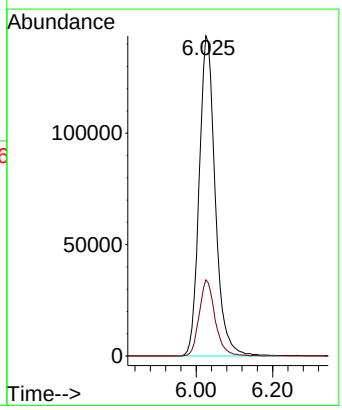
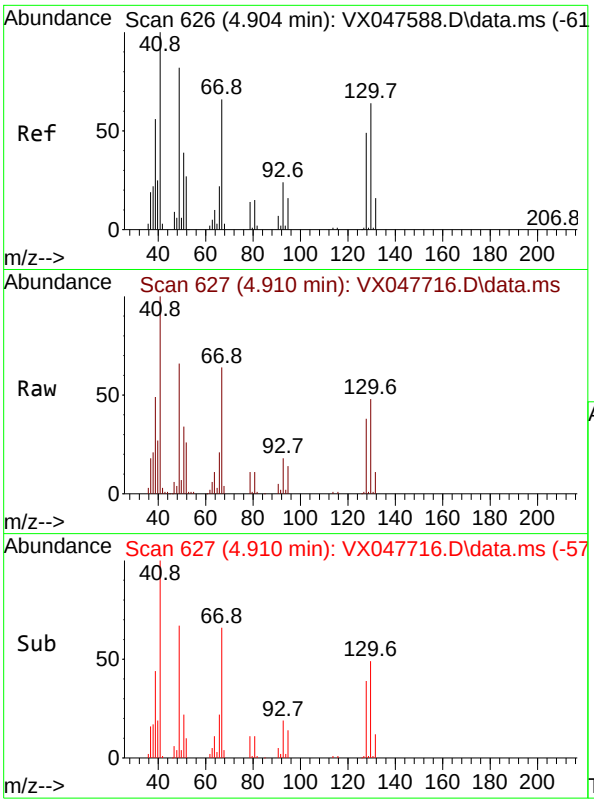


#40
Benzene
Concen: 49.262 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 78 Resp: 418727

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2

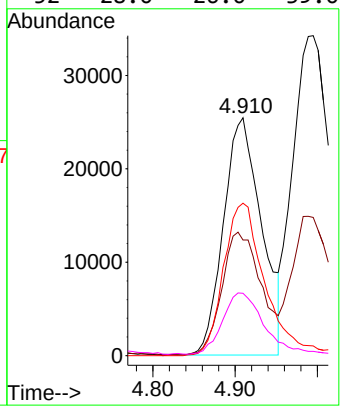




#41
Methacrylonitrile
Concen: 52.951 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 41 Resp: 8191

Ion	Ratio	Lower	Upper
41	100		
39	54.6	43.3	64.9
67	70.9	58.6	87.8
52	28.0	26.0	39.0



Instrument :
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ClientSampleId :
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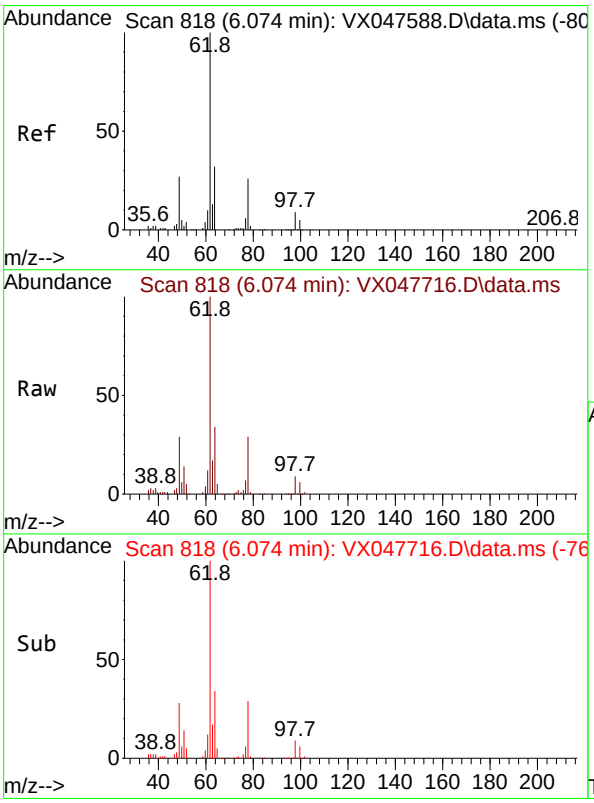
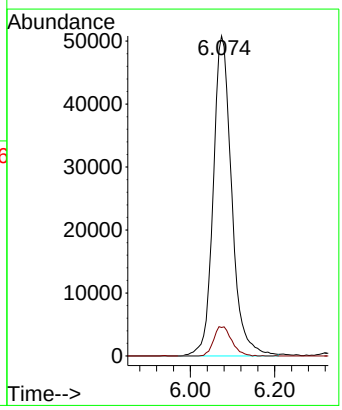
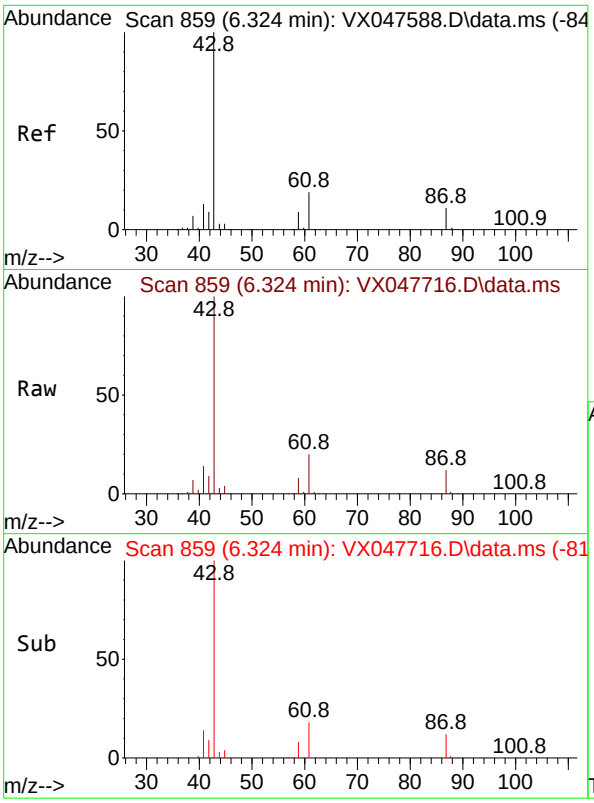


#42
1,2-Dichloroethane
Concen: 47.733 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 62 Resp: 154372

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0

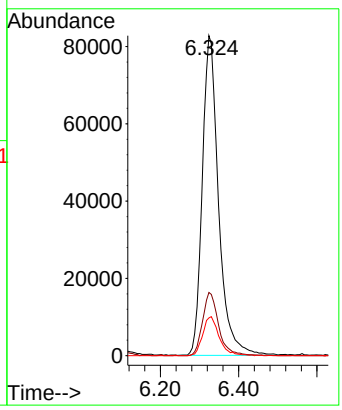




#43
Isopropyl Acetate
Concen: 48.533 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 23850

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.2	22.8
87	12.3	9.6	14.4



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ClientSampleId :
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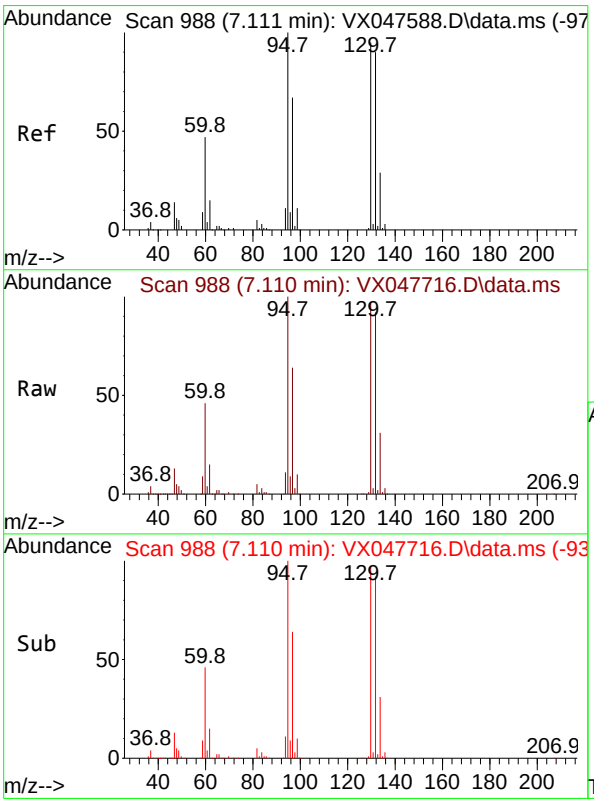
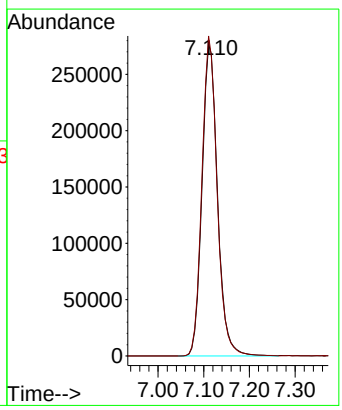
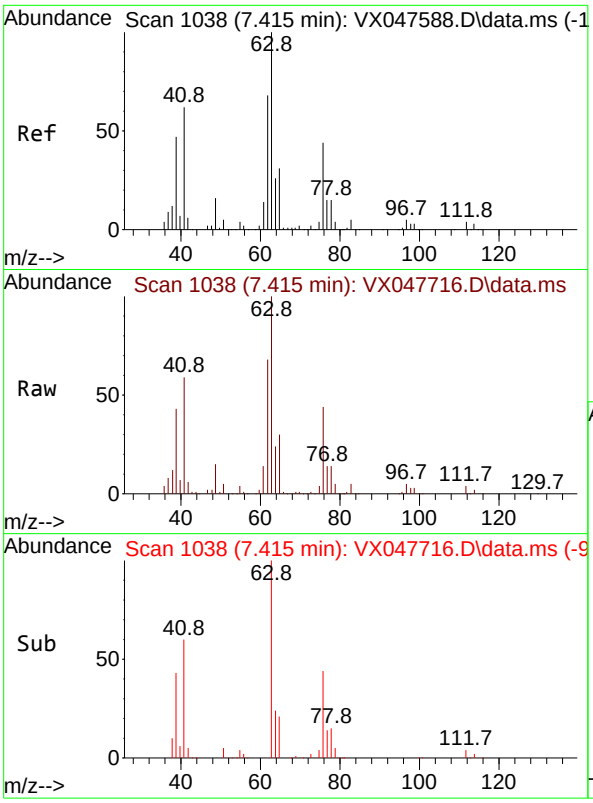


#44
Trichloroethene
Concen: 316.221 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:130 Resp: 649824

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	210.8

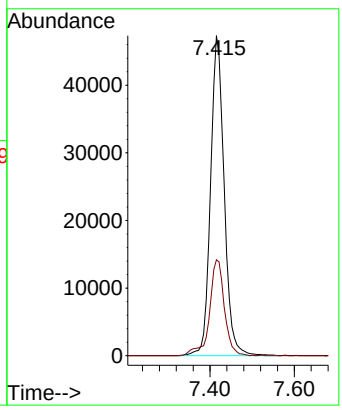




#45
1,2-Dichloropropane
Concen: 48.933 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 63 Resp: 10650

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
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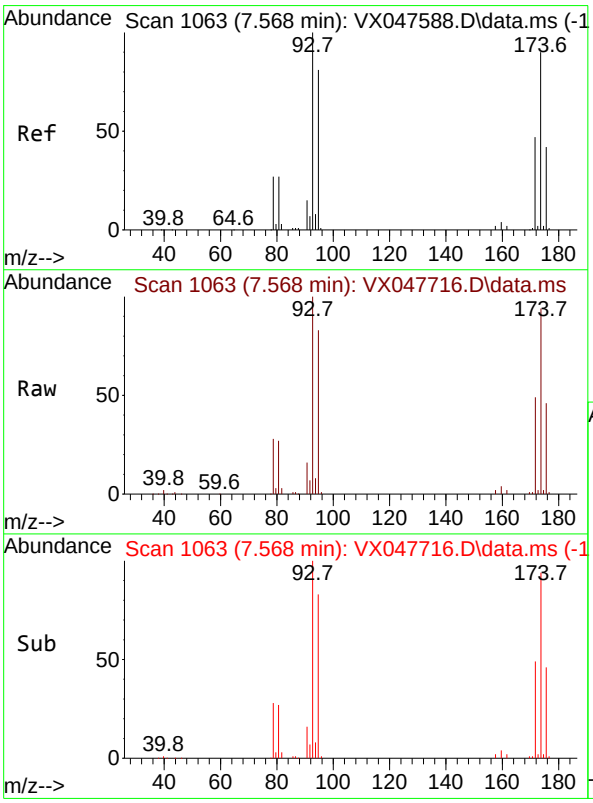
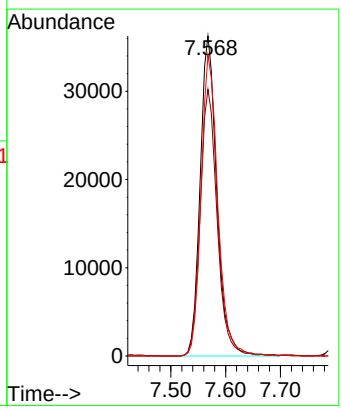
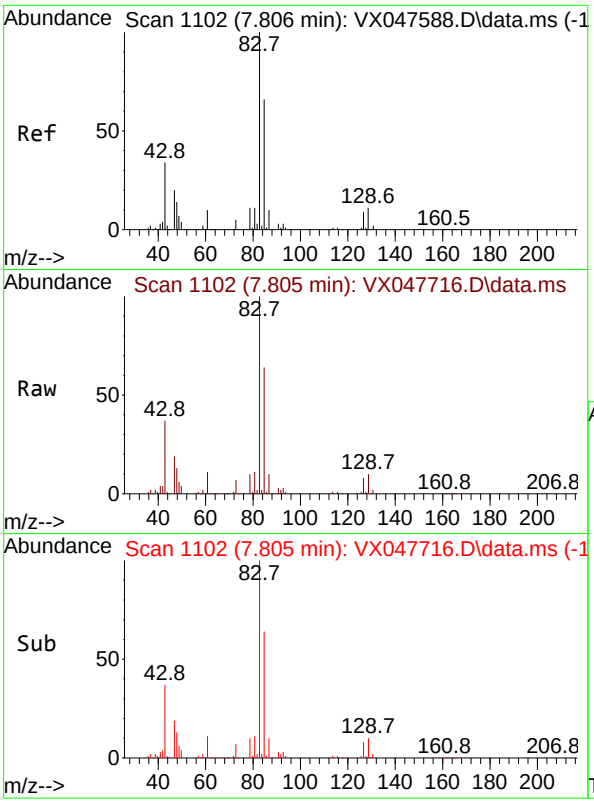


#46
Dibromomethane
Concen: 48.334 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 93 Resp: 76554

Ion	Ratio	Lower	Upper
93	100		
95	84.6	65.0	97.6
174	94.6	71.6	107.4

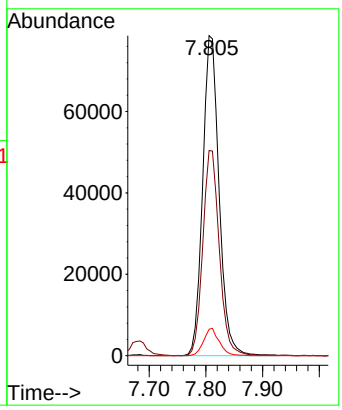




#47
Bromodichloromethane
Concen: 48.363 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 83 Resp: 15806

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.5	78.7
127	8.3	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

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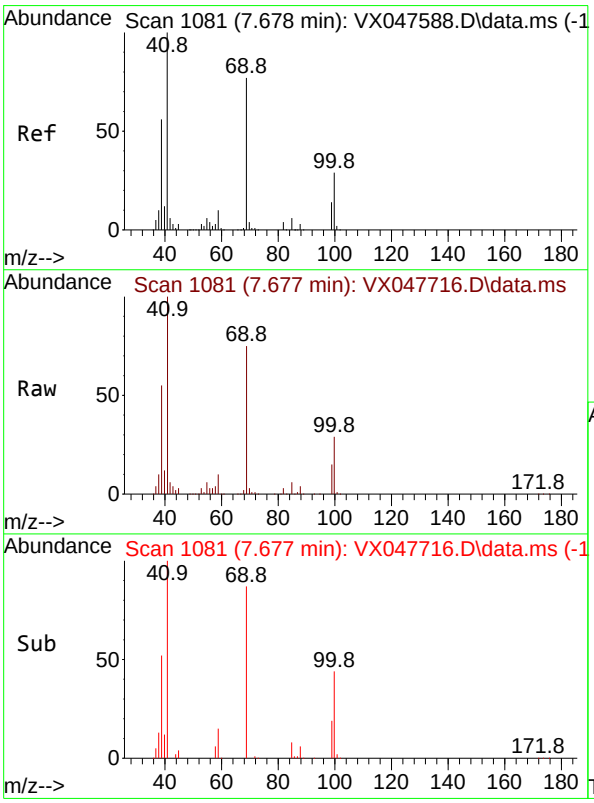
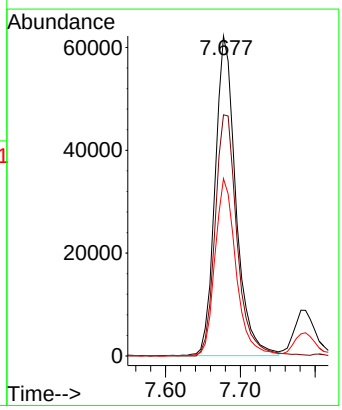
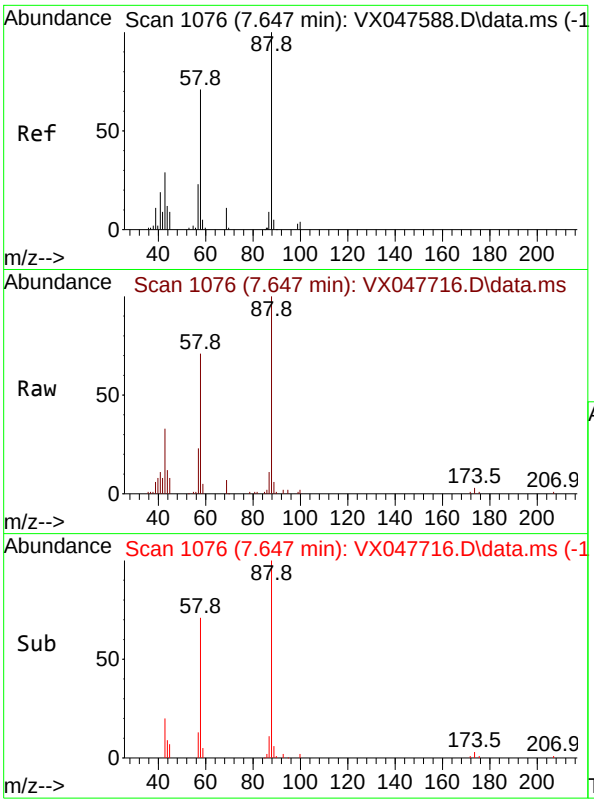


#48
Methyl methacrylate
Concen: 49.151 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 41 Resp: 120316

Ion	Ratio	Lower	Upper
41	100		
69	79.9	61.4	92.2
39	55.9	45.8	68.6

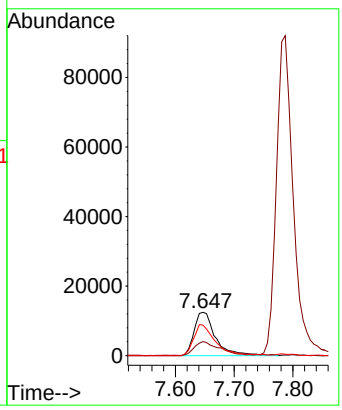




#49
1,4-Dioxane
Concen: 1276.303 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 88 Resp: 3157

Ion	Ratio	Lower	Upper
88	100		
43	37.2	30.2	45.2
58	73.5	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
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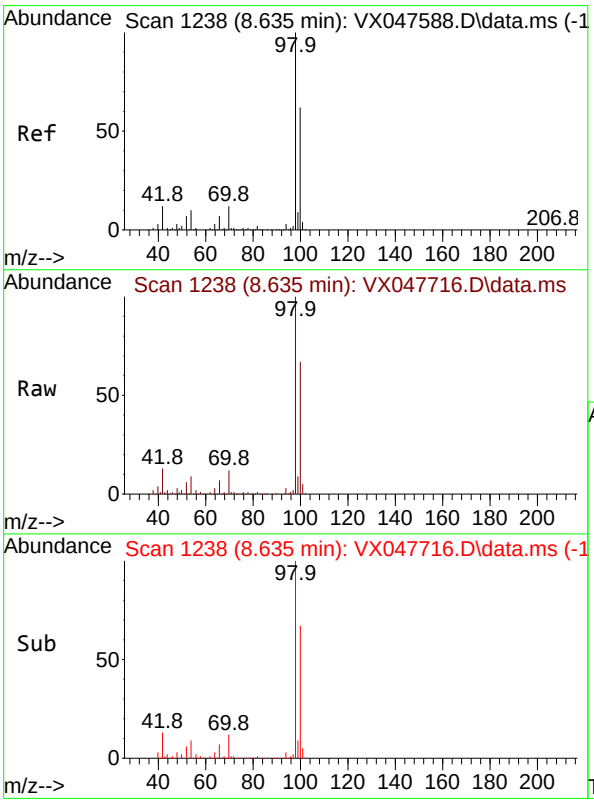
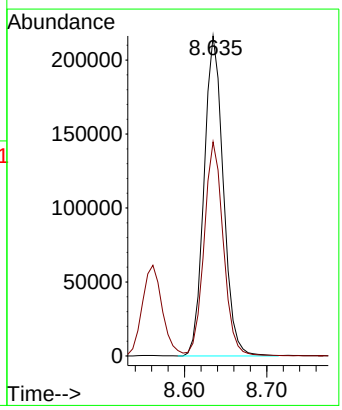
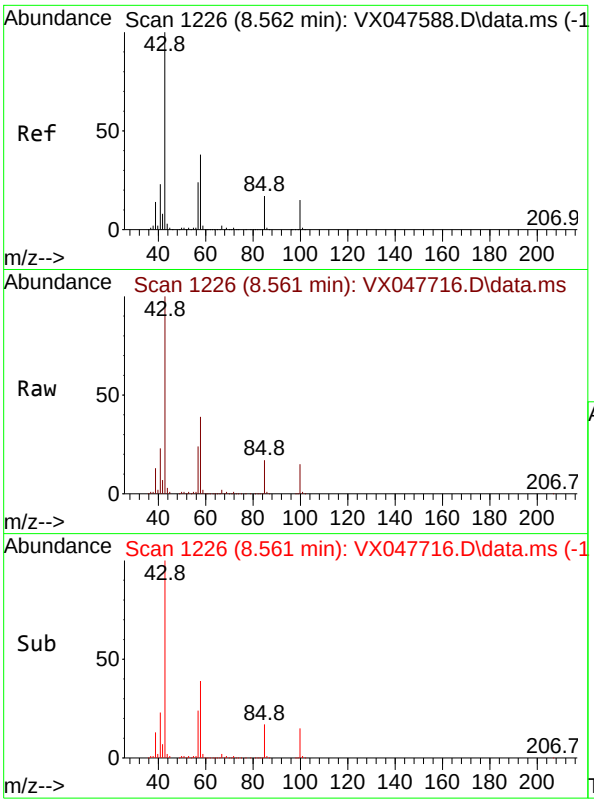


#50
Toluene-d8
Concen: 53.107 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 98 Resp: 351935

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.0	79.4

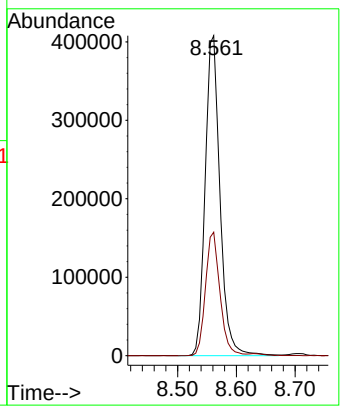




#51
4-Methyl-2-Pentanone
Concen: 261.859 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 71349

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5



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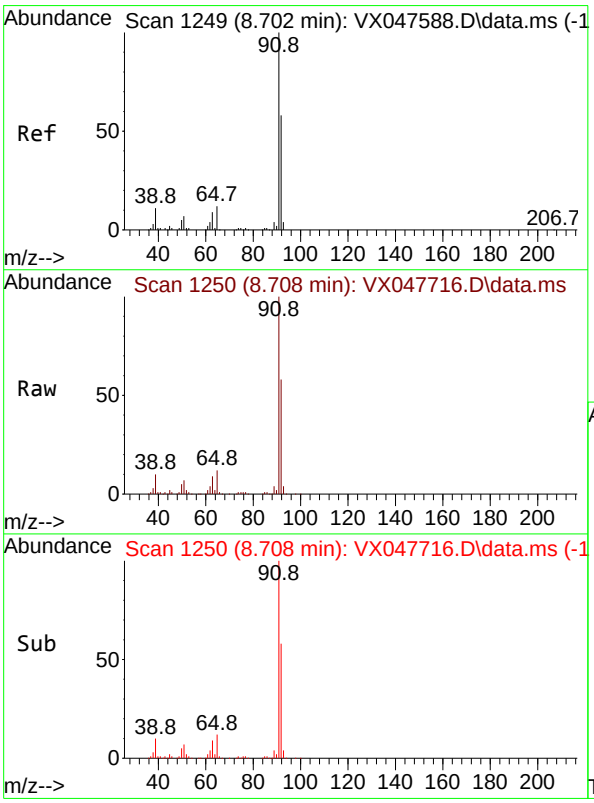
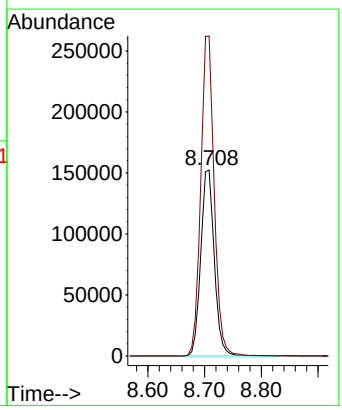
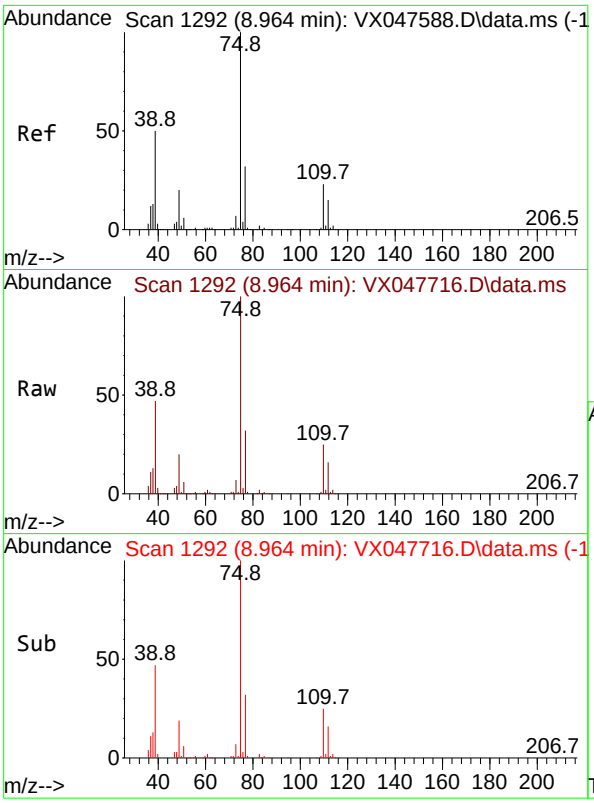


#52
Toluene
Concen: 48.176 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 92 Resp: 252290

Ion	Ratio	Lower	Upper
92	100		
91	171.2	137.1	205.7

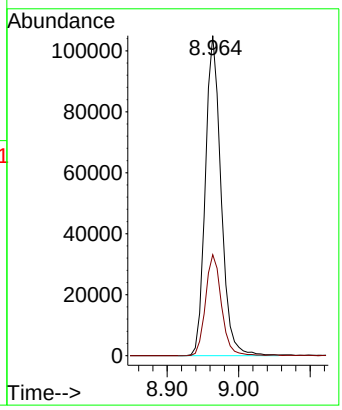




#53
t-1,3-Dichloropropene
Concen: 48.021 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 75 Resp: 16009

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2



Instrument :
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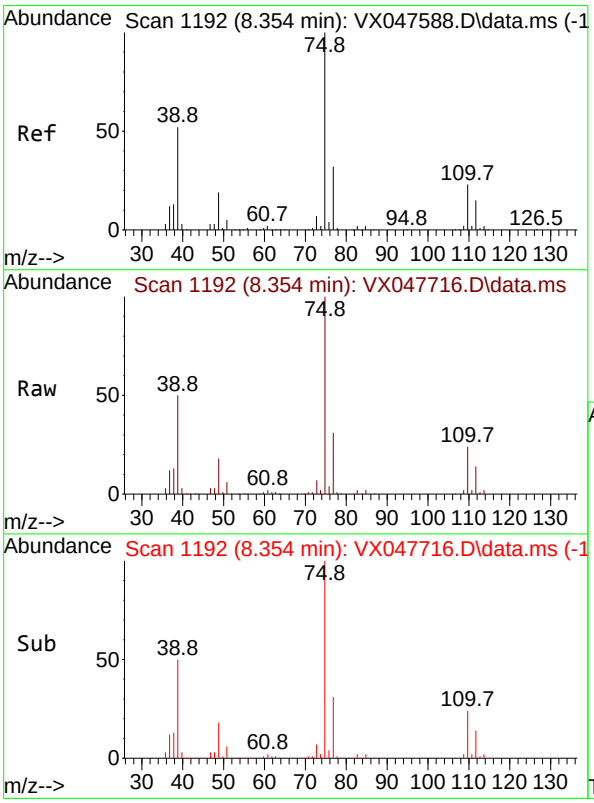
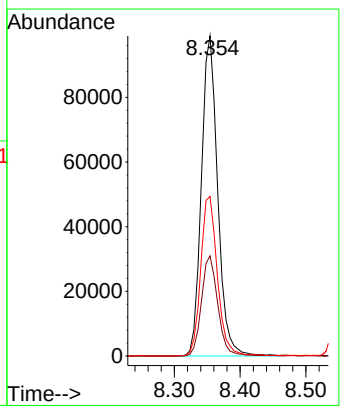
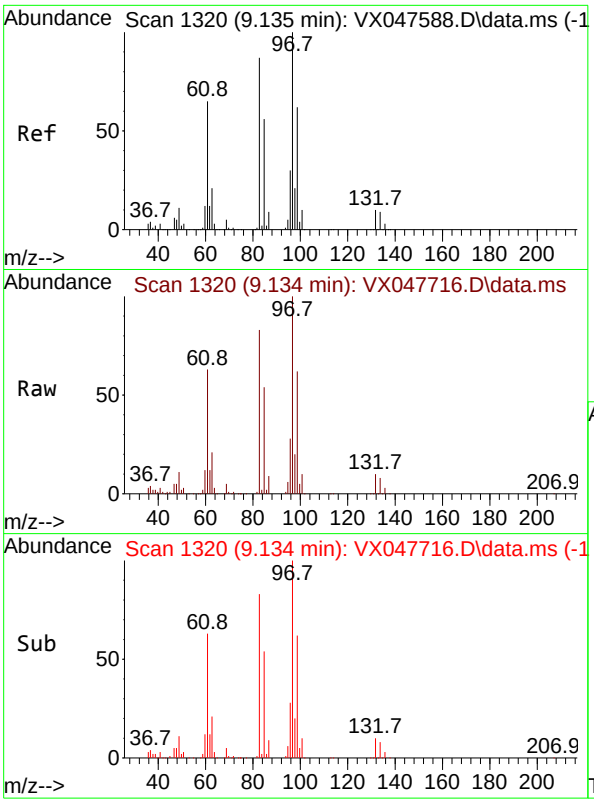


#54
cis-1,3-Dichloropropene
Concen: 47.854 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 75 Resp: 170516

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.6
39	49.3	41.4	62.2

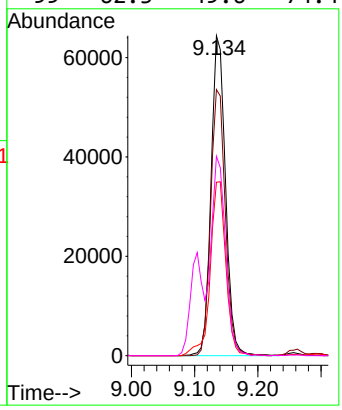




#55
1,1,2-Trichloroethane
Concen: 50.639 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 97 Resp: 10225

Ion	Ratio	Lower	Upper
97	100		
83	83.1	69.6	104.4
85	54.1	45.0	67.6
99	62.3	49.6	74.4



Instrument :
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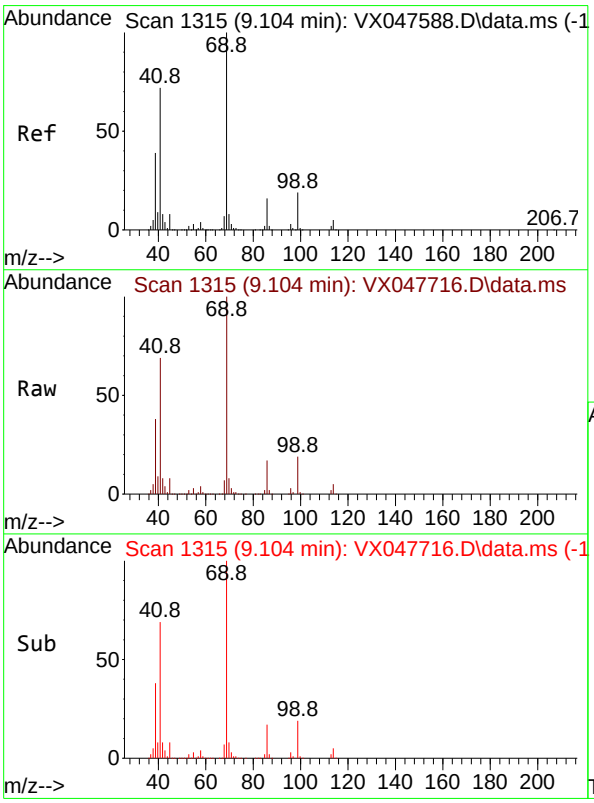
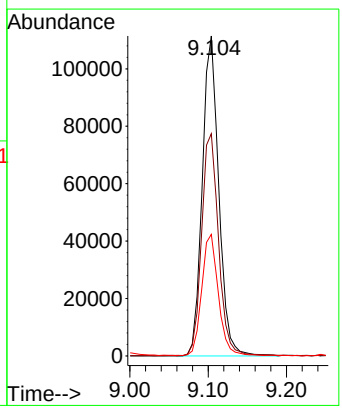
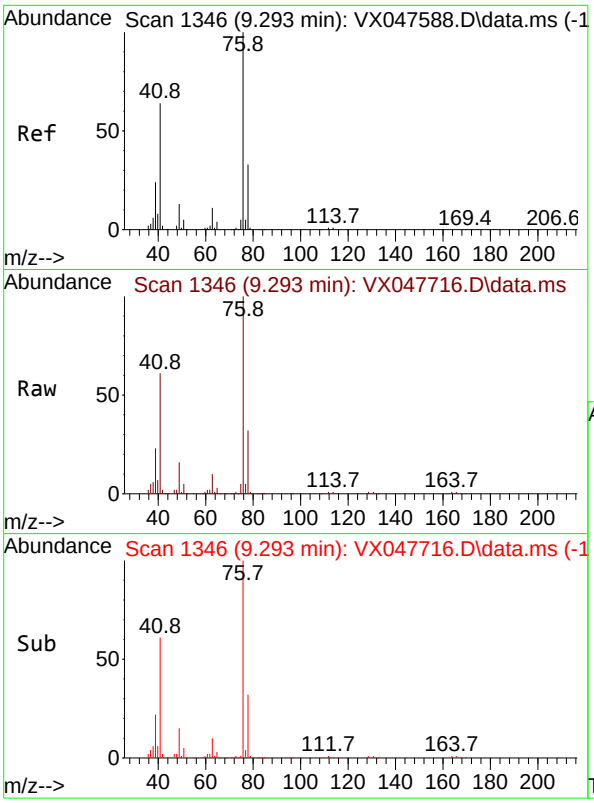


#56
Ethyl methacrylate
Concen: 51.375 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 69 Resp: 162921

Ion	Ratio	Lower	Upper
69	100		
41	71.1	58.6	87.8
39	38.0	31.5	47.3

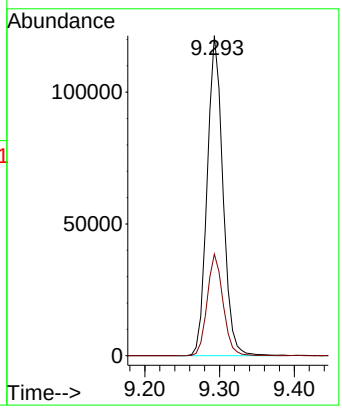




#57
1,3-Dichloropropane
Concen: 51.150 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 76 Resp: 17742

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
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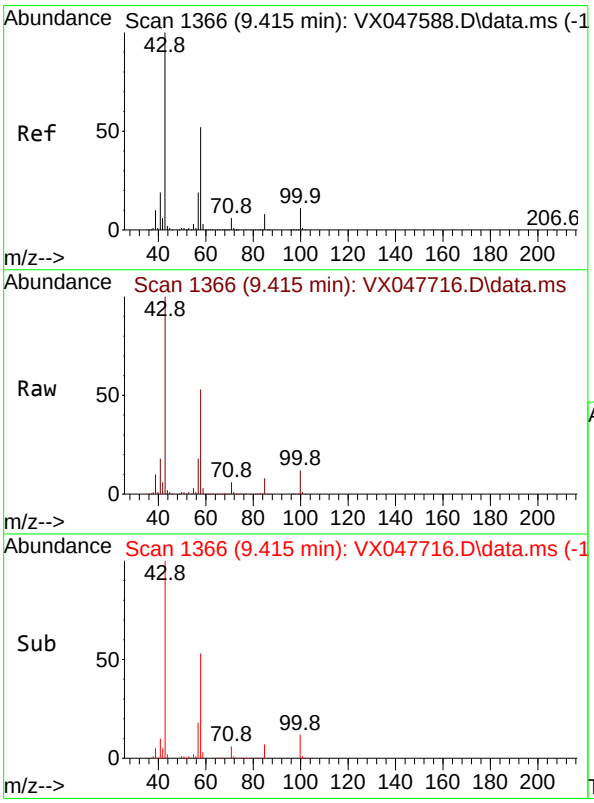
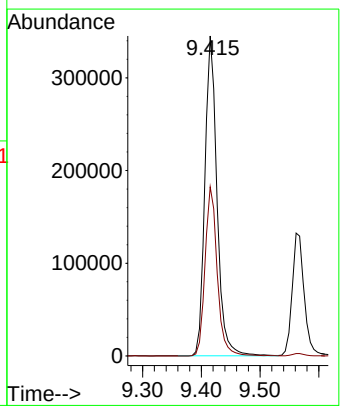
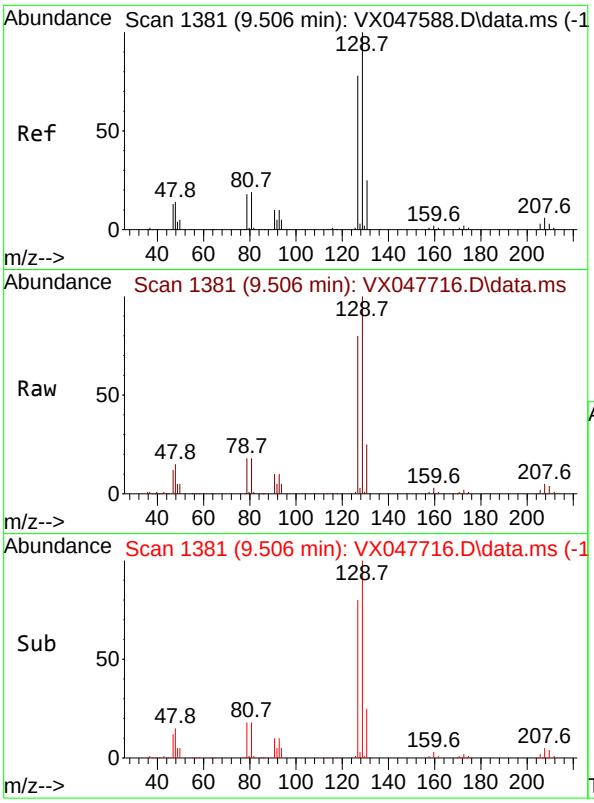


#59
2-Hexanone
Concen: 253.602 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 496279

Ion	Ratio	Lower	Upper
43	100		
58	53.1	26.1	78.2

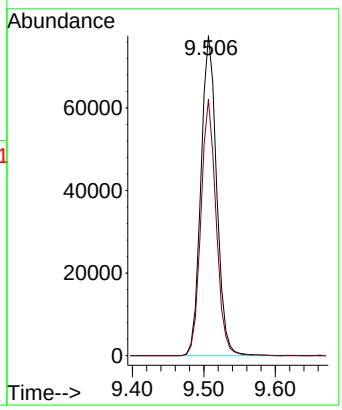




#60
Dibromochloromethane
Concen: 50.771 ug/l
RT: 9.506 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:129 Resp: 11812

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2



Instrument :
MSVOA_X
ClientSampleId :
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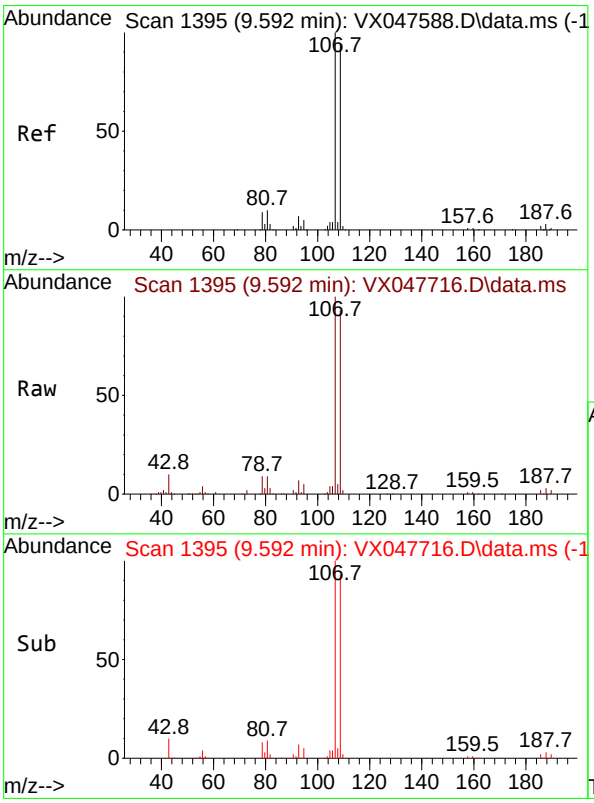
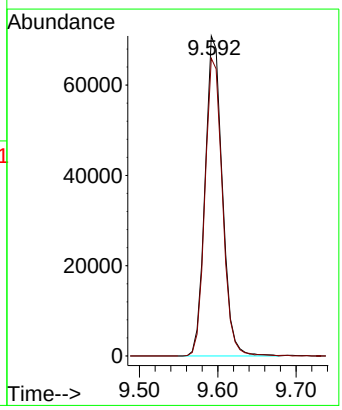
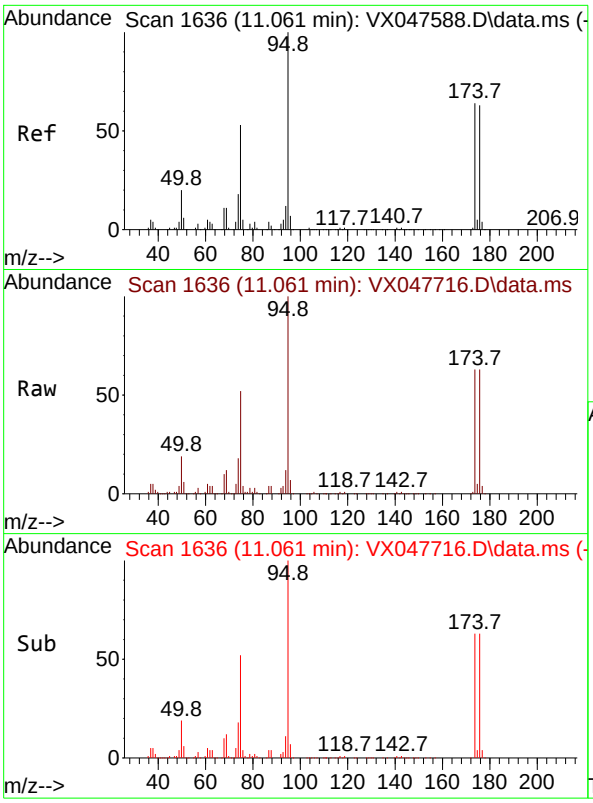


#61
1,2-Dibromoethane
Concen: 52.599 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:107 Resp: 108183

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.3	112.9





#62
4-Bromofluorobenzene
Concen: 53.798 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 95 Resp: 13530

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	141.6
176	69.3	0.0	138.4

Instrument :
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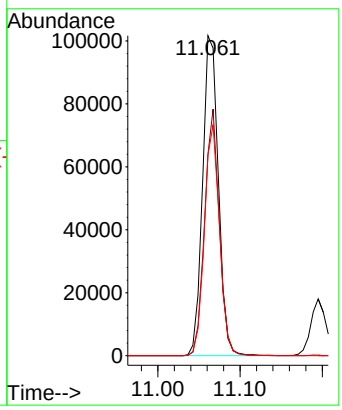
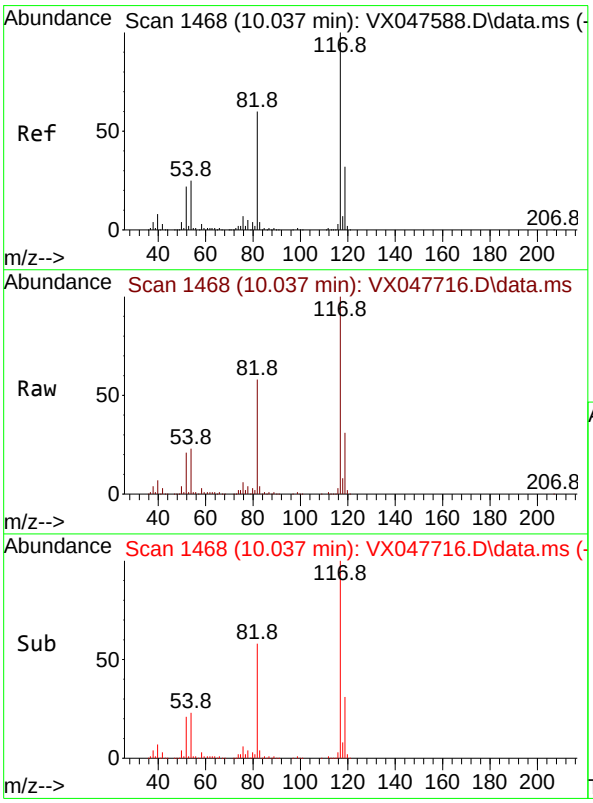
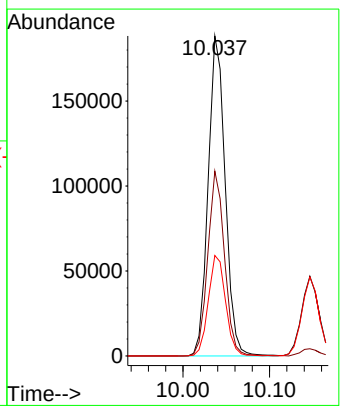


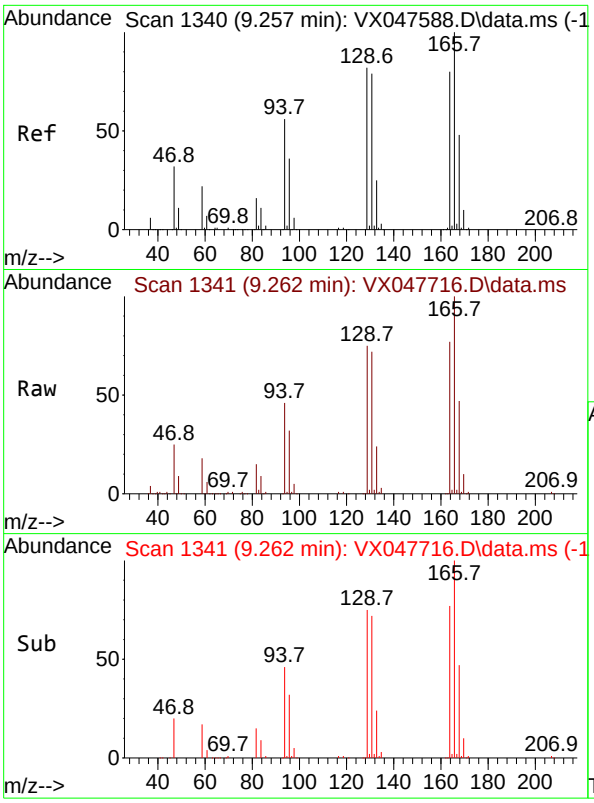


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:117 Resp: 256927

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	31.4	25.2	37.8

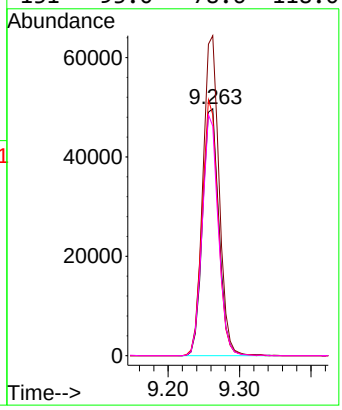




#64
Tetrachloroethene
Concen: 46.898 ug/l
RT: 9.262 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:164 Resp: 7854

Ion	Ratio	Lower	Upper
164	100		
166	129.6	100.2	150.2
129	97.6	81.8	122.6
131	93.0	78.6	118.0



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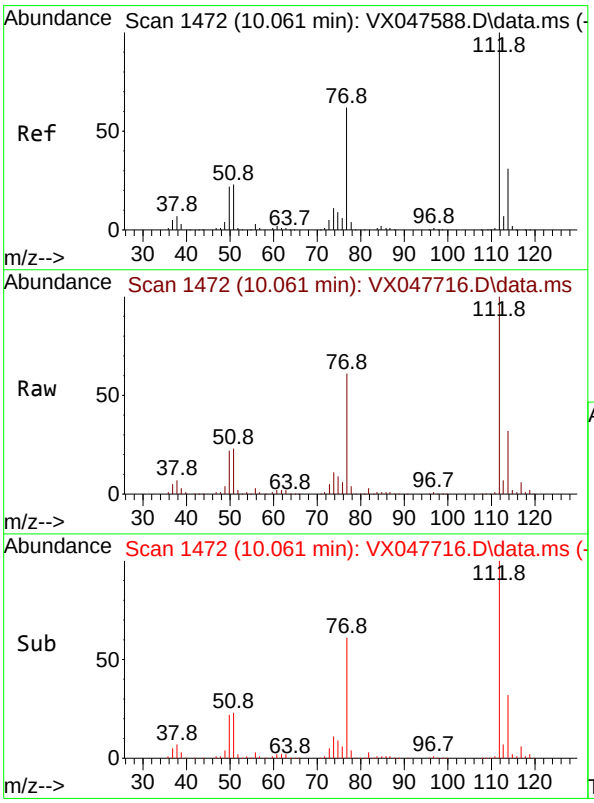
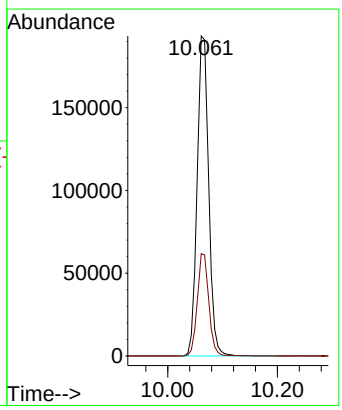
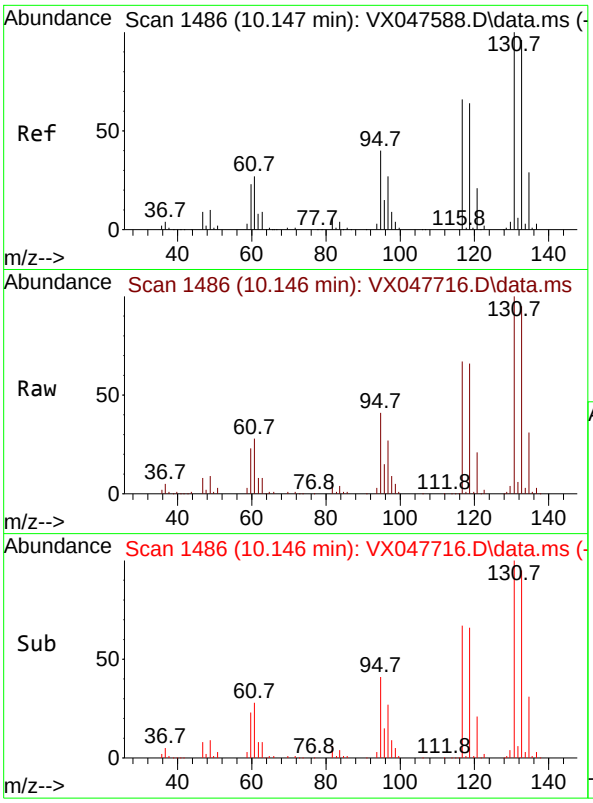


#65
Chlorobenzene
Concen: 48.661 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:112 Resp: 284028

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7

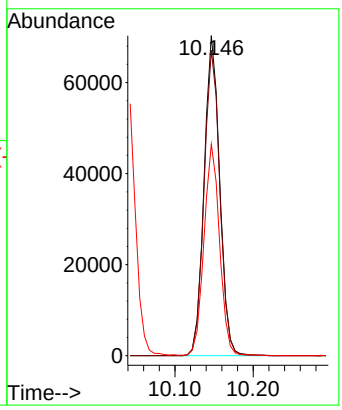




#66
1,1,1,2-Tetrachloroethane
Concen: 48.198 ug/l
RT: 10.146 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:131 Resp: 9707

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	66.1	32.0	96.0



Instrument :
MSVOA_X
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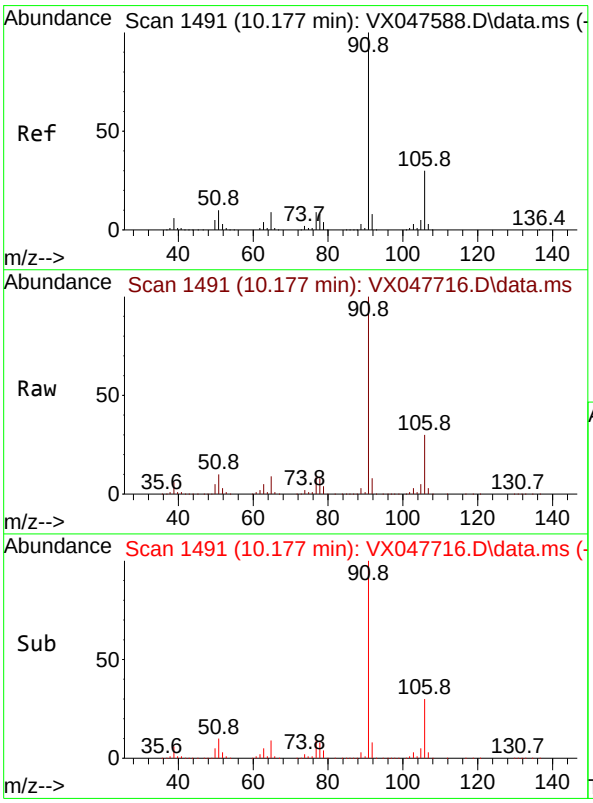
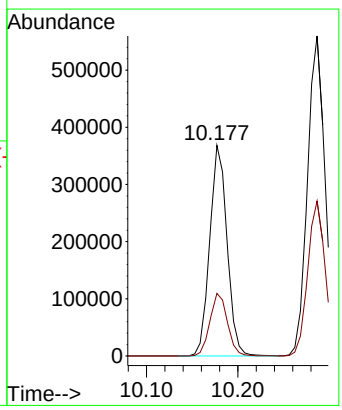
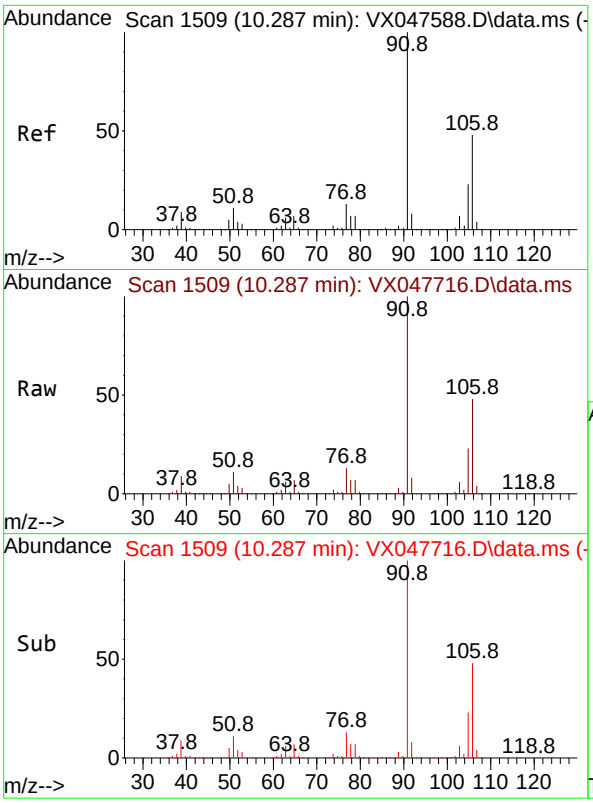


#67
Ethyl Benzene
Concen: 48.136 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 91 Resp: 484782

Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.3	36.5





#68
m/p-Xylenes
Concen: 97.291 ug/l
RT: 10.287 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:106 Resp: 36470

Ion	Ratio	Lower	Upper
106	100		
91	207.0	167.8	251.8

Instrument :
MSVOA_X
ClientSampleId :
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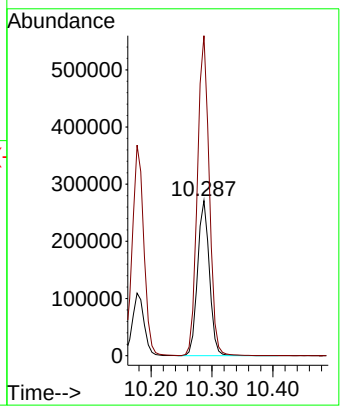
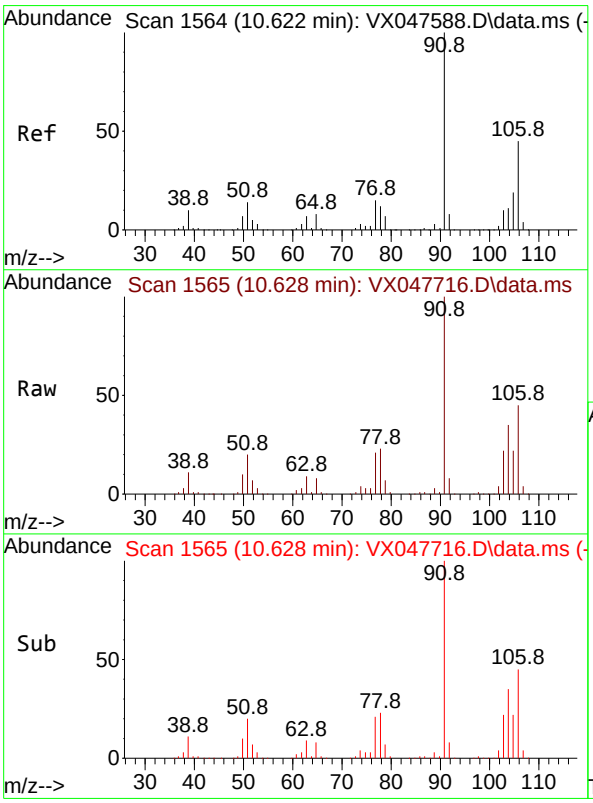
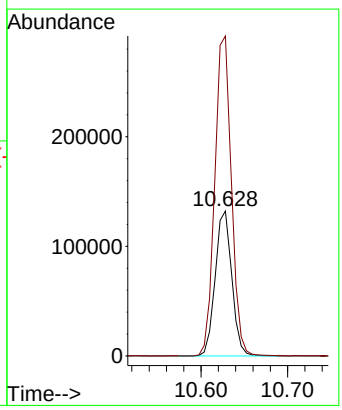


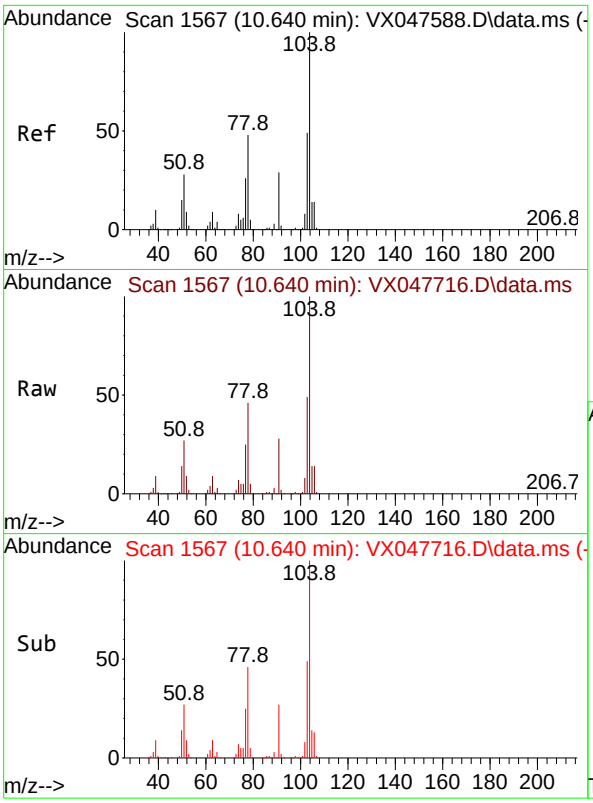


#69
o-Xylene
Concen: 48.532 ug/l
RT: 10.628 min Scan# 1565
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:106 Resp: 175962

Ion	Ratio	Lower	Upper
106	100		
91	221.7	111.1	333.4





#70
Styrene
Concen: 48.980 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:104 Resp: 31117

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.1	64.7
103	54.4	43.1	64.7

Instrument :
MSVOA_X
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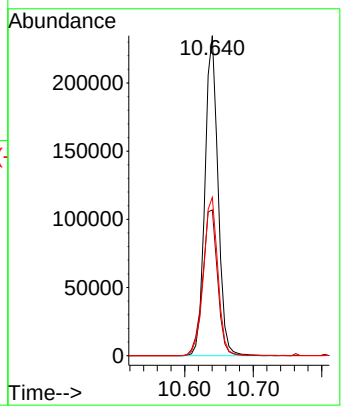
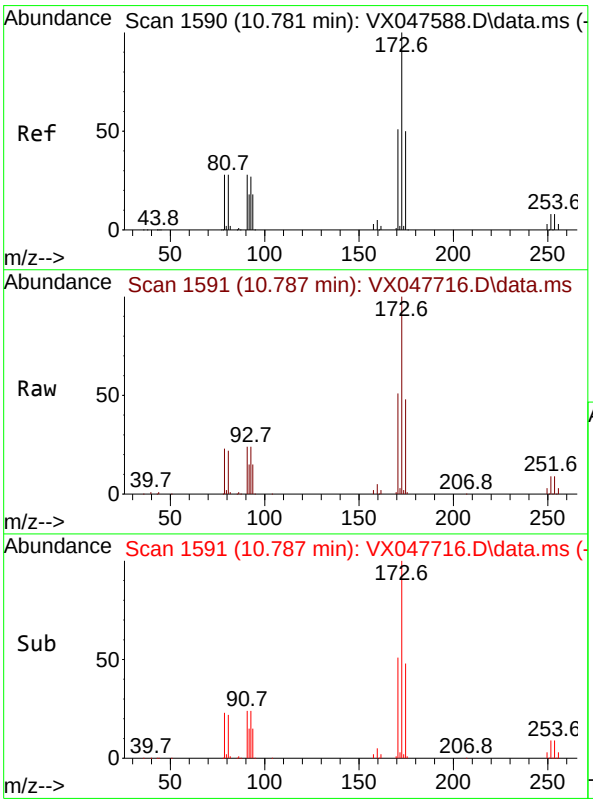
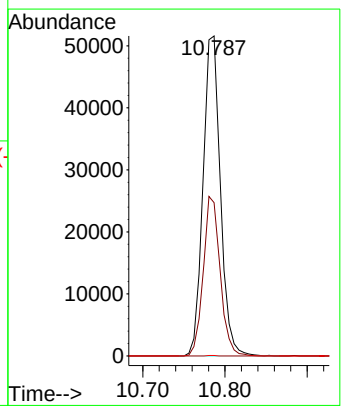


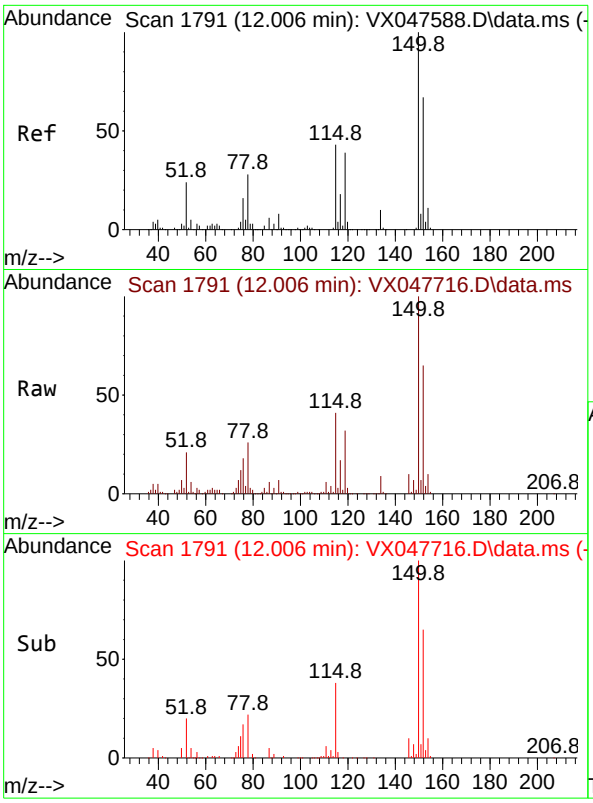


#71
Bromoform
Concen: 50.286 ug/l
RT: 10.787 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:173 Resp: 75628

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.9	74.6
254	0.1	0.1	0.1

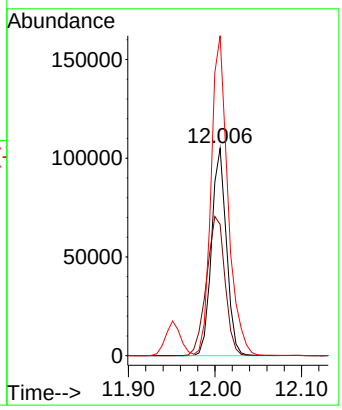




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:152 Resp: 12529

Ion	Ratio	Lower	Upper
152	100		
115	83.8	44.9	134.5
150	174.8	0.0	352.0



Instrument :
MSVOA_X
ClientSampleId :
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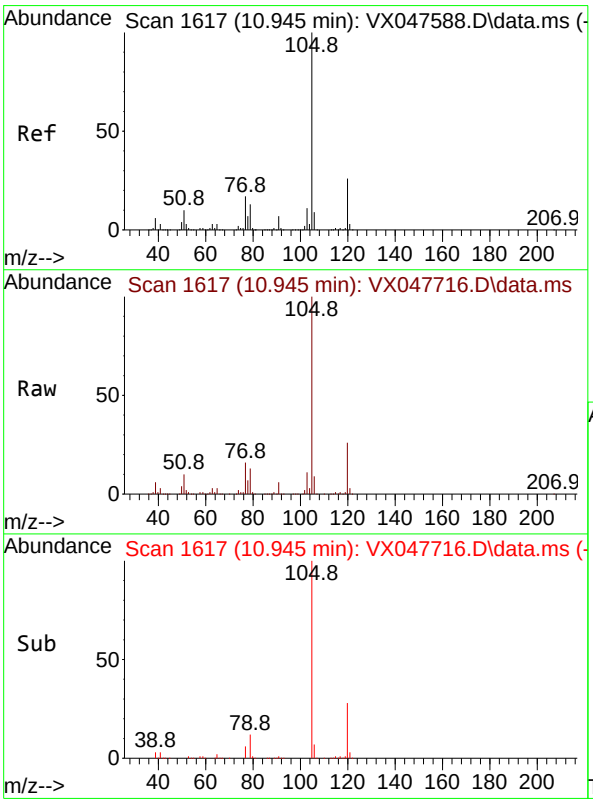
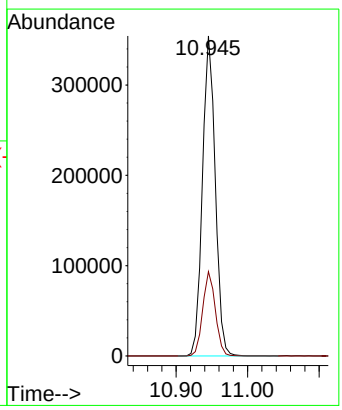
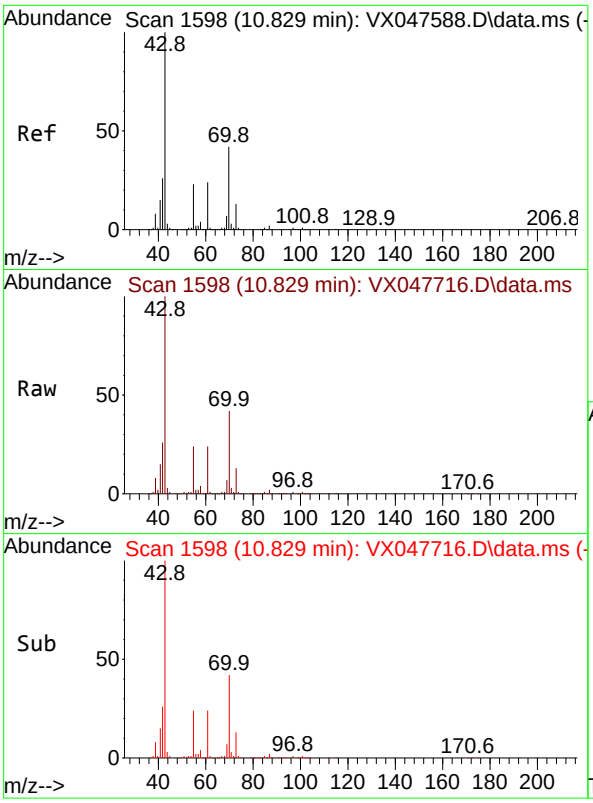


#73
Isopropylbenzene
Concen: 46.230 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:105 Resp: 440376

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

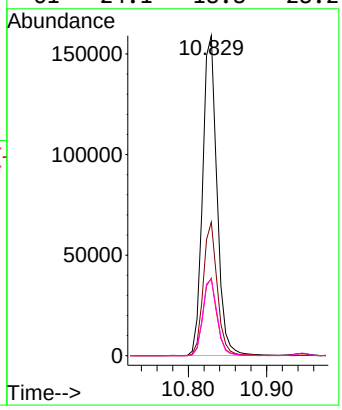




#74
N-amyl acetate
Concen: 46.415 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 20161

Ion	Ratio	Lower	Upper
43	100		
70	40.8	32.0	48.0
55	23.9	18.9	28.3
61	24.1	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
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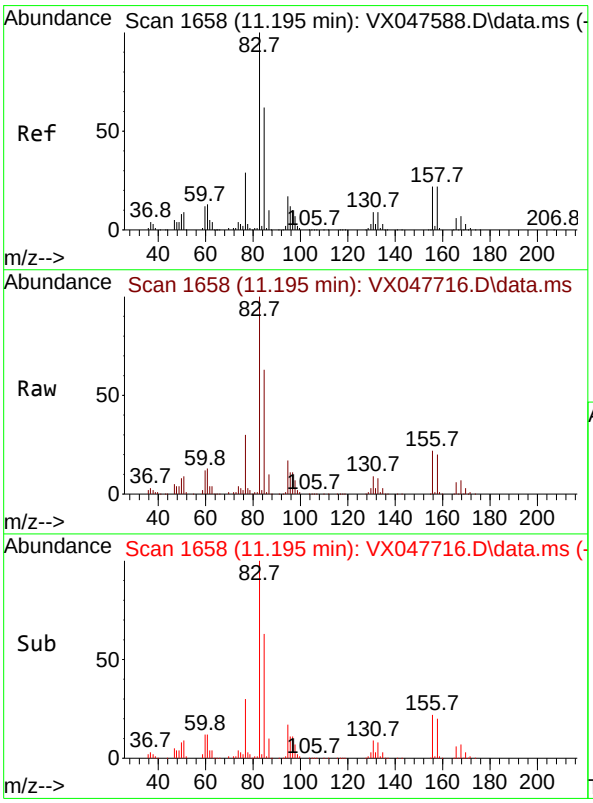
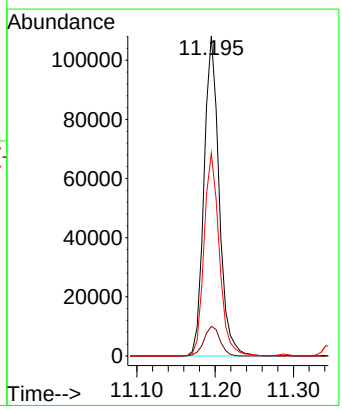
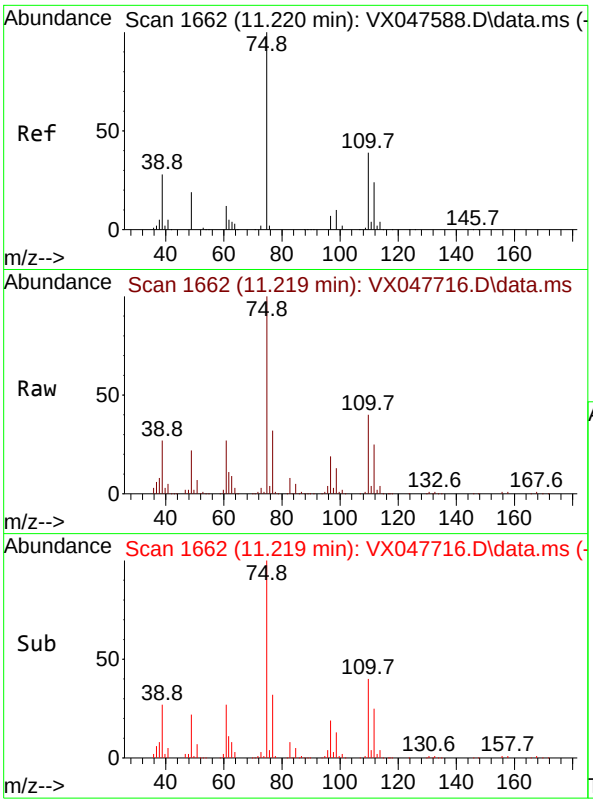


#75
1,1,2,2-Tetrachloroethane
Concen: 50.065 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 83 Resp: 144289

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.0	31.6	95.0





#76
1,2,3-Trichloropropane
Concen: 51.049 ug/l m
RT: 11.219 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 75 Resp: 12950

Ion	Ratio	Lower	Upper
75	100		
77	37.9	18.8	56.4

Instrument :
MSVOA_X
ClientSampleId :
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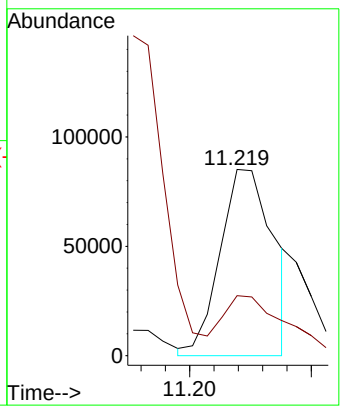
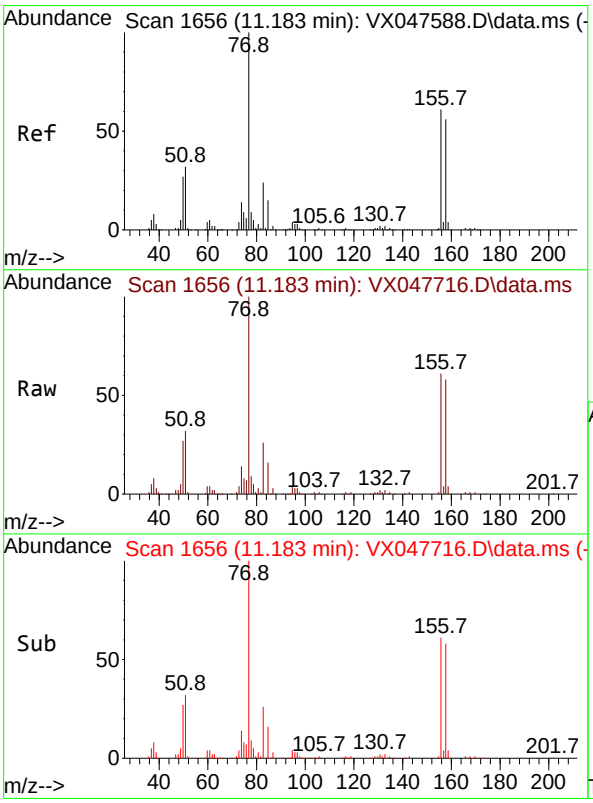
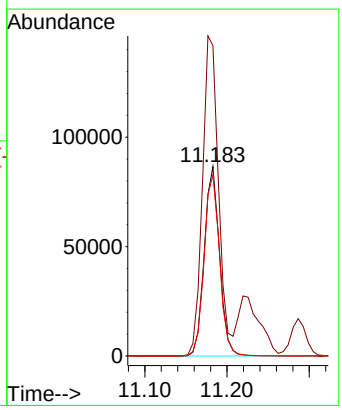


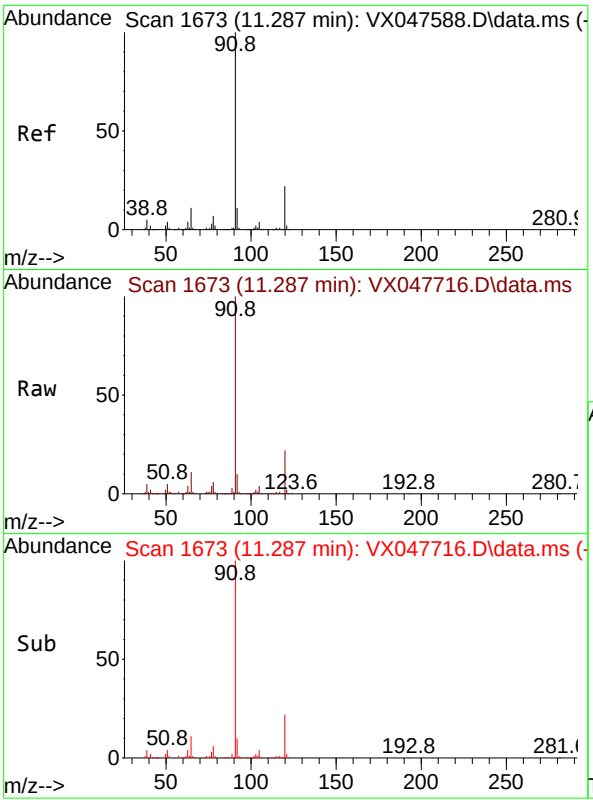


#77
Bromobenzene
Concen: 47.588 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:156 Resp: 111648

Ion	Ratio	Lower	Upper
156	100		
77	178.3	89.7	269.1
158	97.2	47.9	143.6

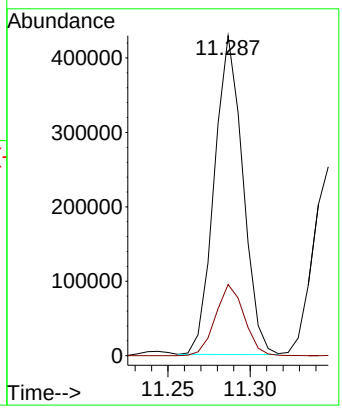




#78
n-propylbenzene
Concen: 45.887 ug/l
RT: 11.287 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 91 Resp: 51671

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

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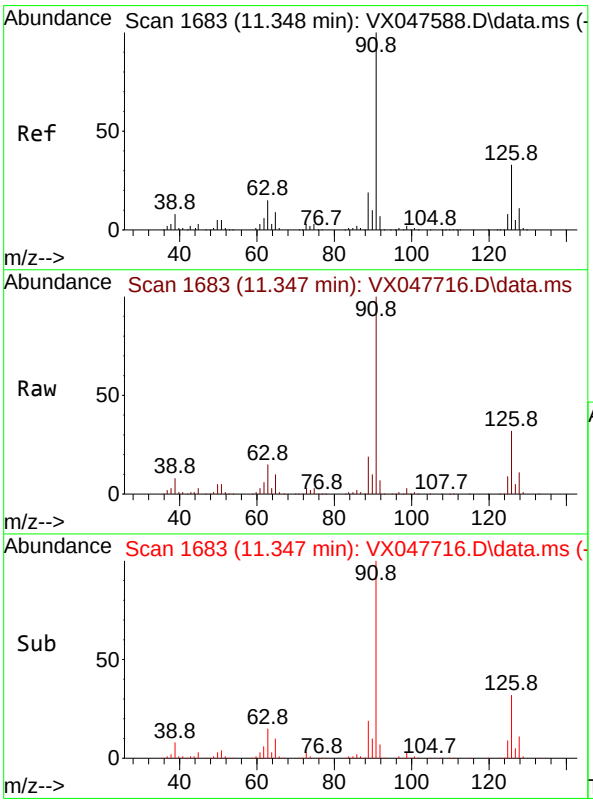
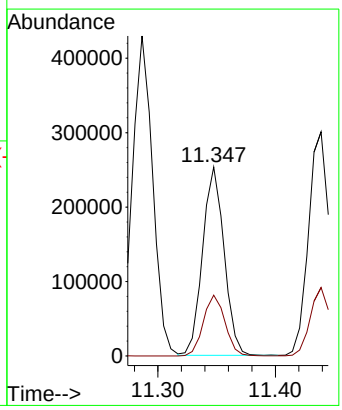
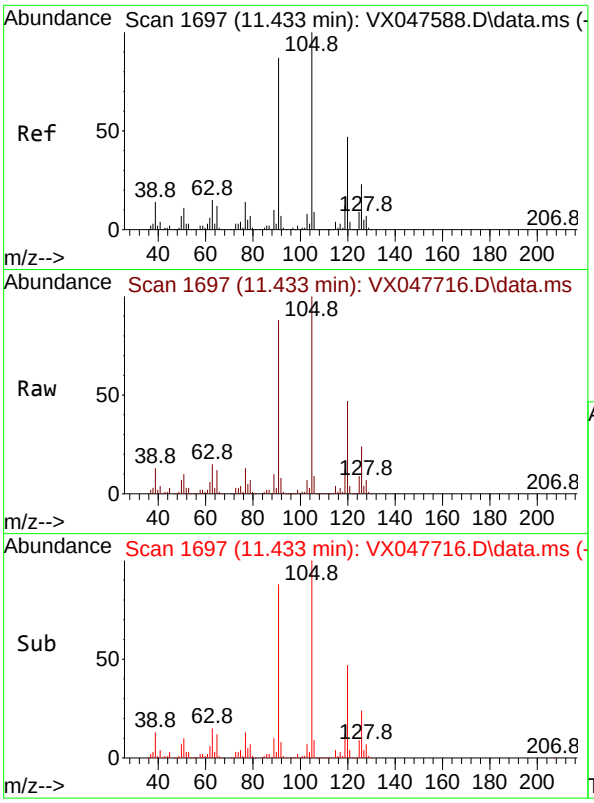


#79
2-Chlorotoluene
Concen: 46.712 ug/l
RT: 11.347 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 91 Resp: 322164

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3

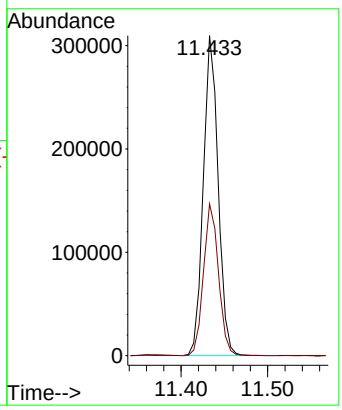




#80
1,3,5-Trimethylbenzene
Concen: 46.952 ug/l
RT: 11.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:105 Resp: 36745

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.6	70.8



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

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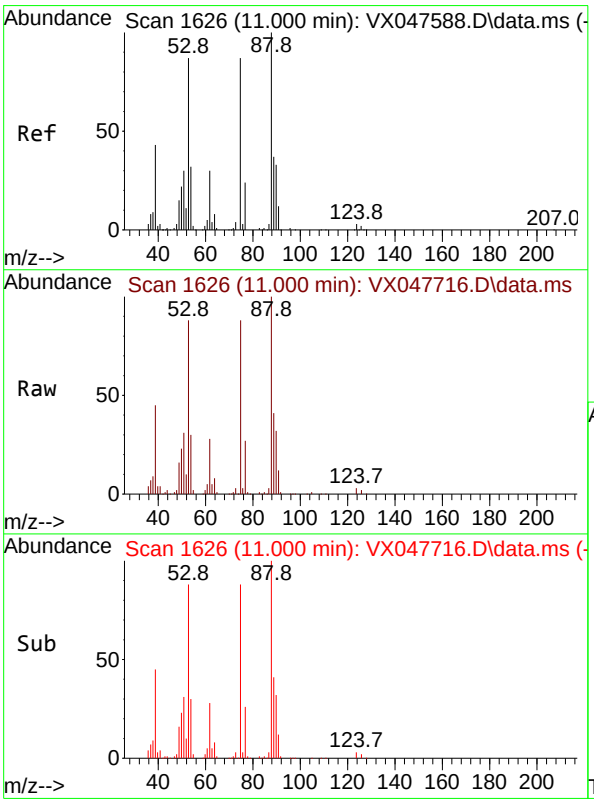
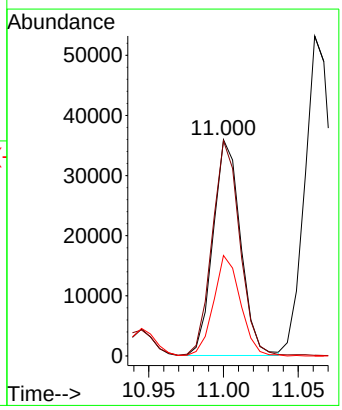
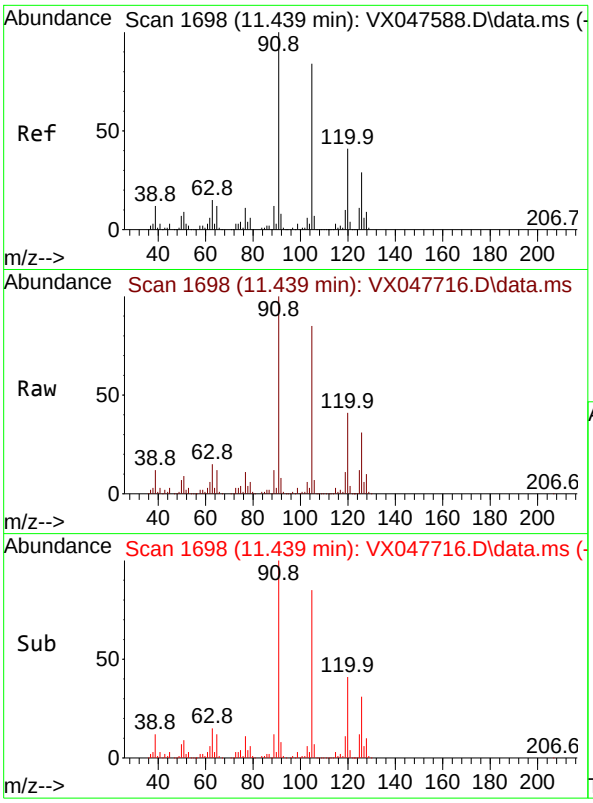


#81
trans-1,4-Dichloro-2-butene
Concen: 45.992 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 75 Resp: 45752

Ion	Ratio	Lower	Upper
75	100		
53	101.7	83.4	125.2
89	45.7	36.3	54.5

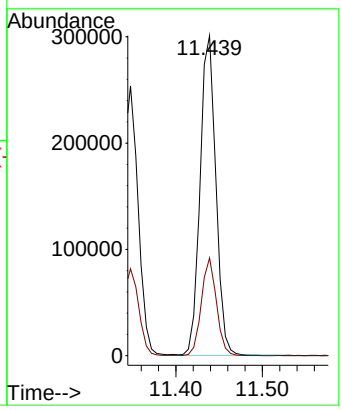




#82
4-Chlorotoluene
Concen: 46.702 ug/l
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 91 Resp: 38041

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.2	42.6



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

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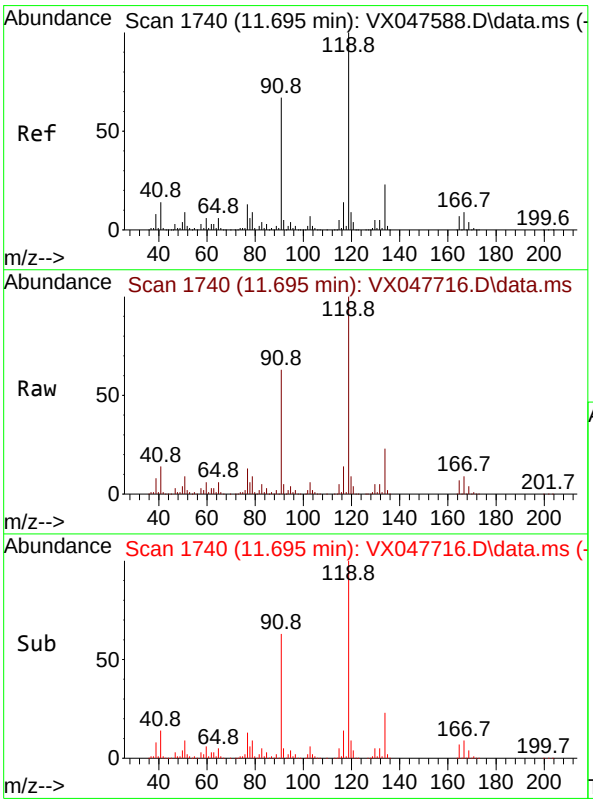
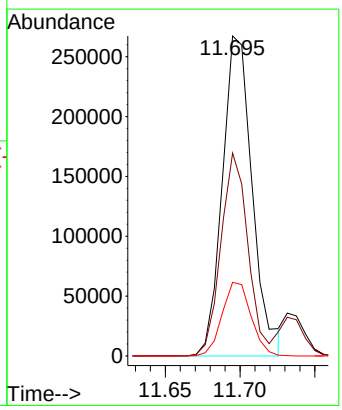
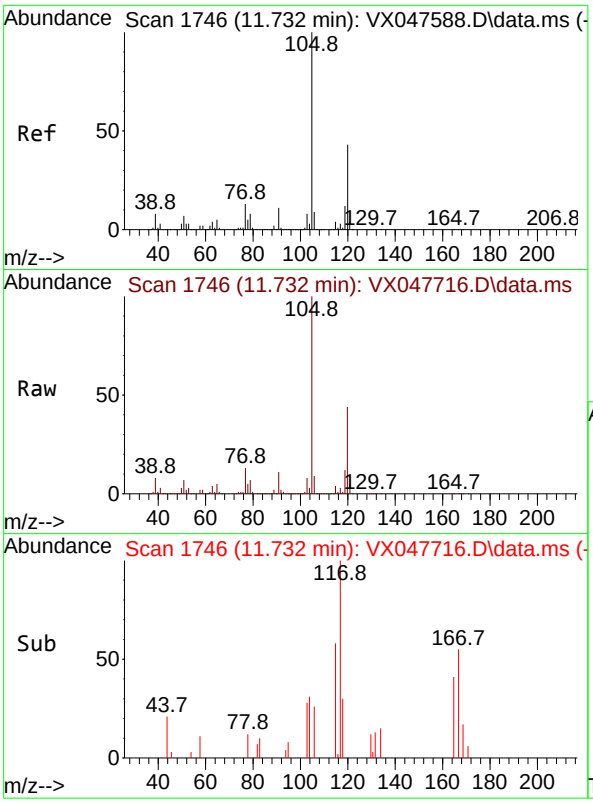


#83
tert-Butylbenzene
Concen: 46.442 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:119 Resp: 372073

Ion	Ratio	Lower	Upper
119	100		
91	57.3	29.6	88.8
134	22.3	11.0	33.0

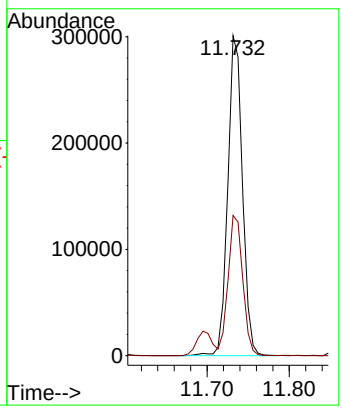




#84
1,2,4-Trimethylbenzene
Concen: 46.849 ug/l
RT: 11.732 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:105 Resp: 37172

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.1



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

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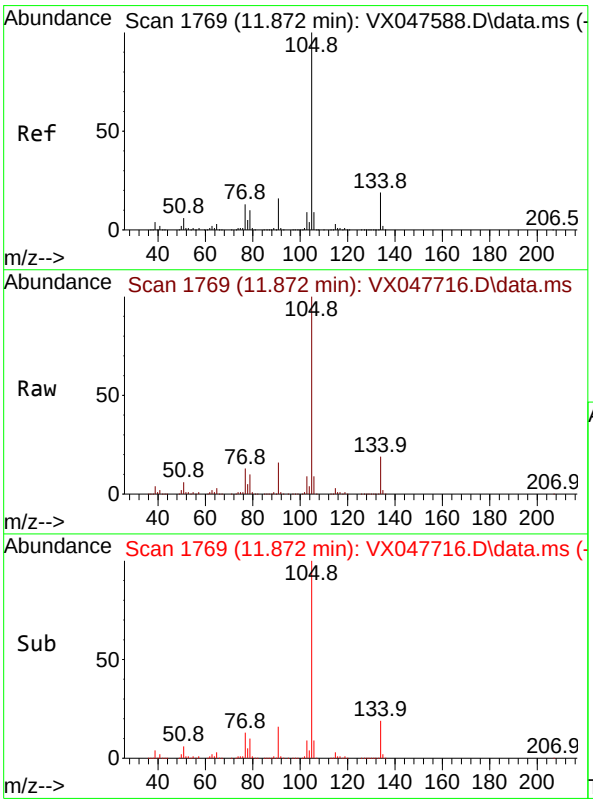
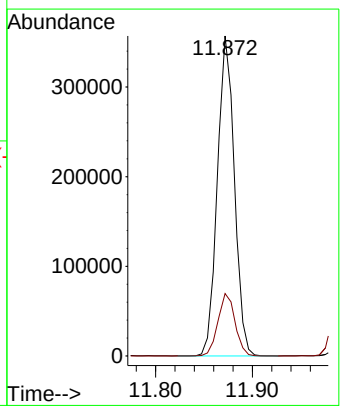
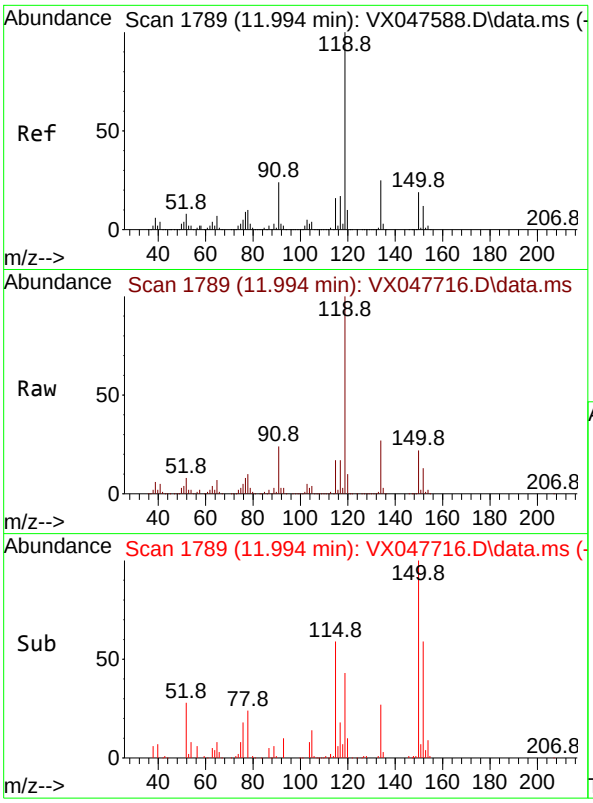


#85
sec-Butylbenzene
Concen: 45.710 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:105 Resp: 434981

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

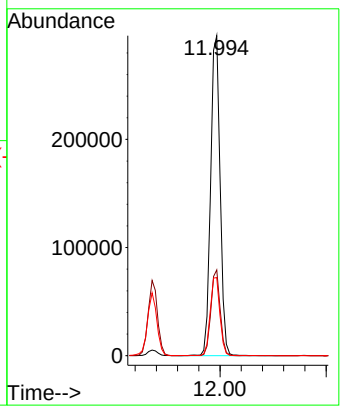




#86
p-Isopropyltoluene
Concen: 45.425 ug/l
RT: 11.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:119 Resp: 36596

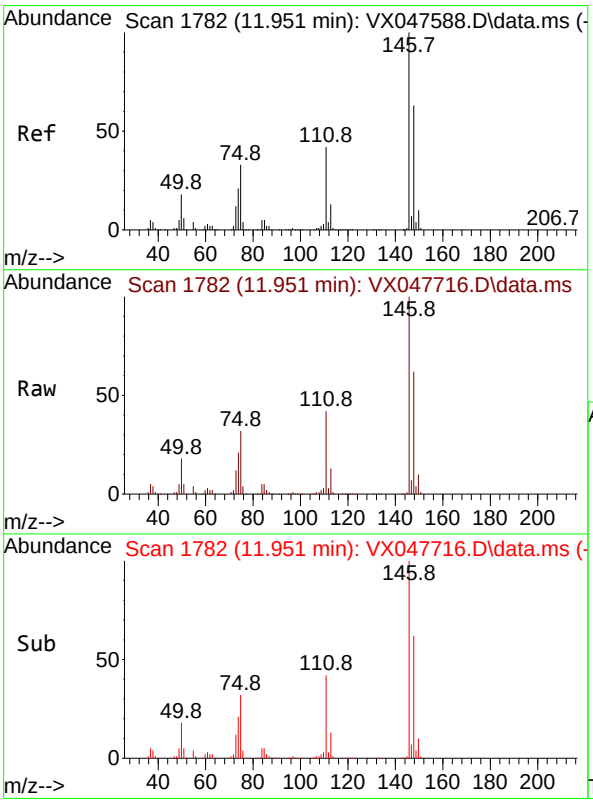
Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.6	37.8
91	25.0	12.6	37.6



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
APPROVED

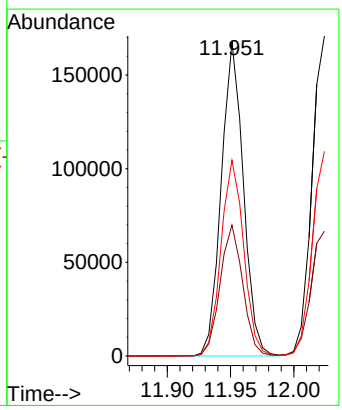
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

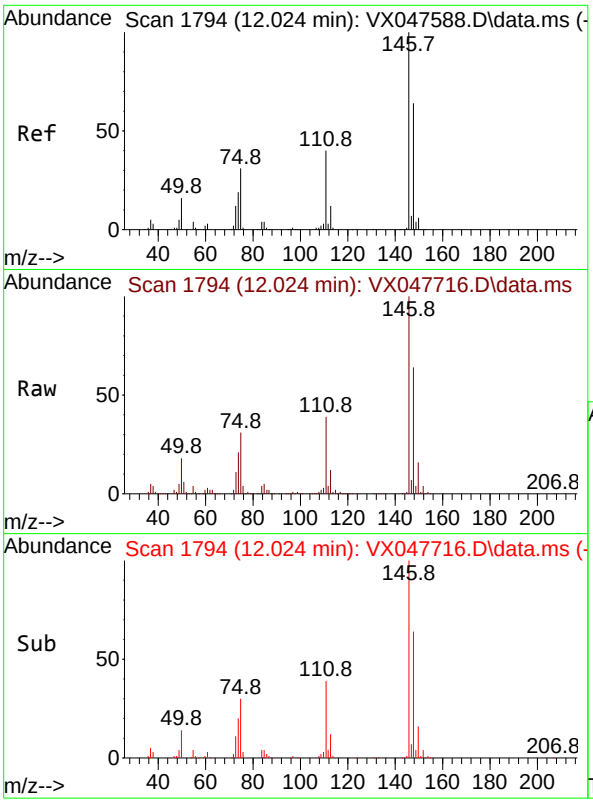


#87
1,3-Dichlorobenzene
Concen: 46.773 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:146 Resp: 203823

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.5	64.5
148	63.8	32.0	96.0

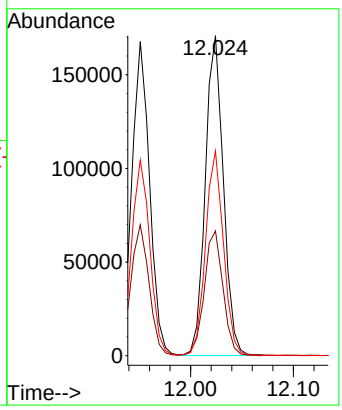




#88
1,4-Dichlorobenzene
Concen: 46.761 ug/l
RT: 12.024 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:146 Resp: 20913

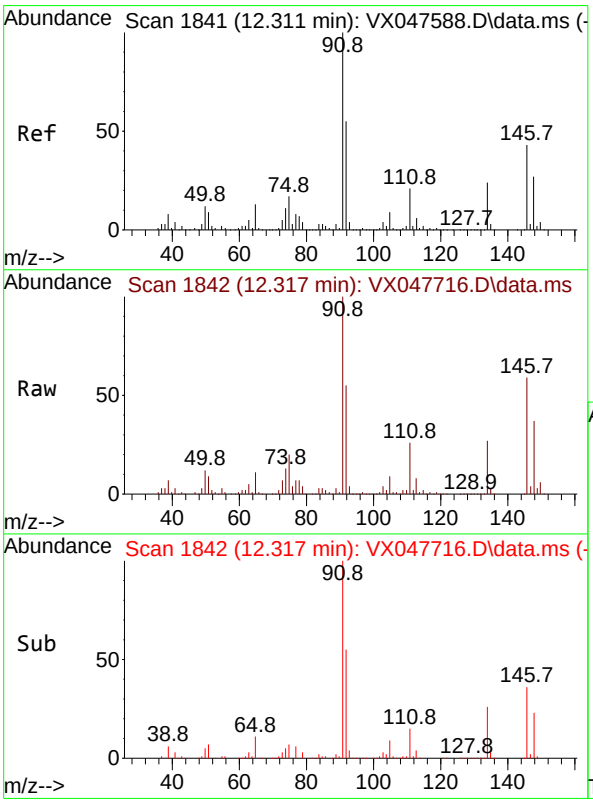
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.8	62.4
148	63.5	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
APPROVED

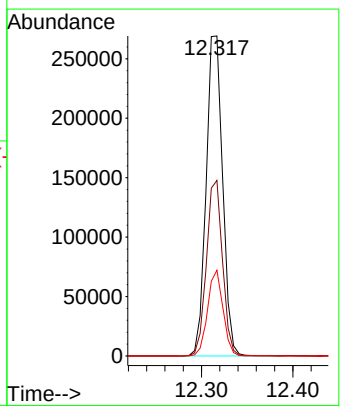
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

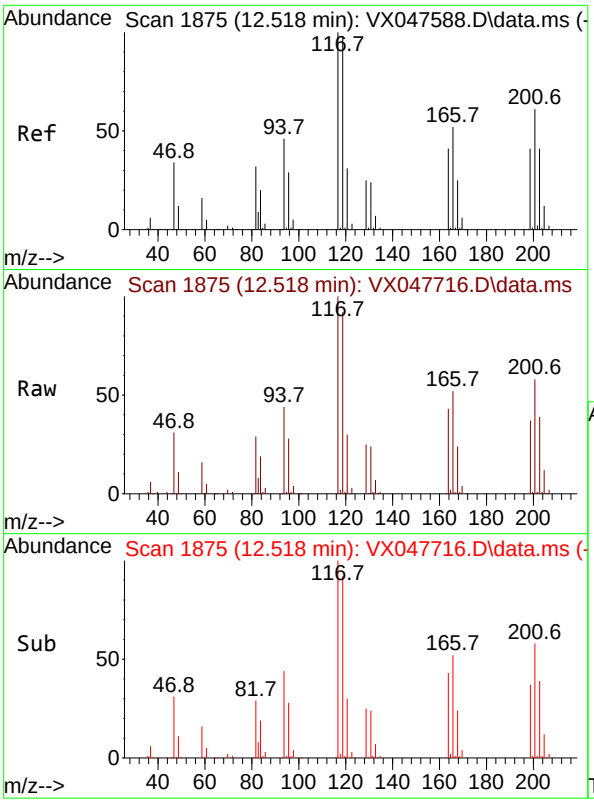


#89
n-Butylbenzene
Concen: 45.146 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 91 Resp: 336544

Ion	Ratio	Lower	Upper
91	100		
92	53.4	27.6	82.7
134	25.0	12.6	37.8

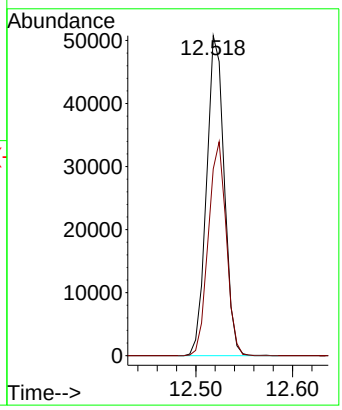




#90
Hexachloroethane
Concen: 45.775 ug/l
RT: 12.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:117 Resp: 6474

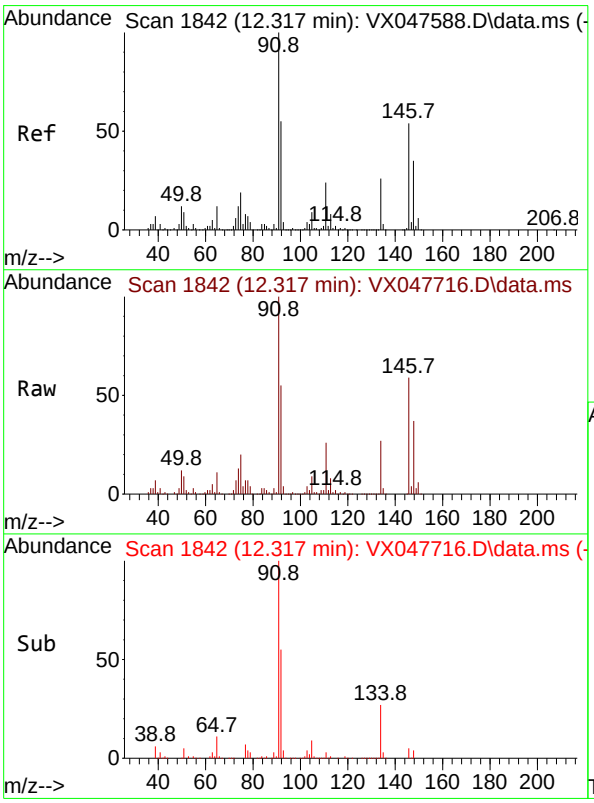
Ion	Ratio	Lower	Upper
117	100		
201	67.4	34.2	102.5



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
APPROVED

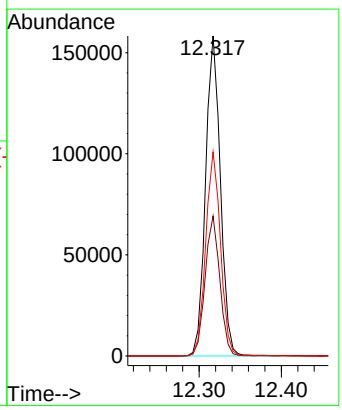
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

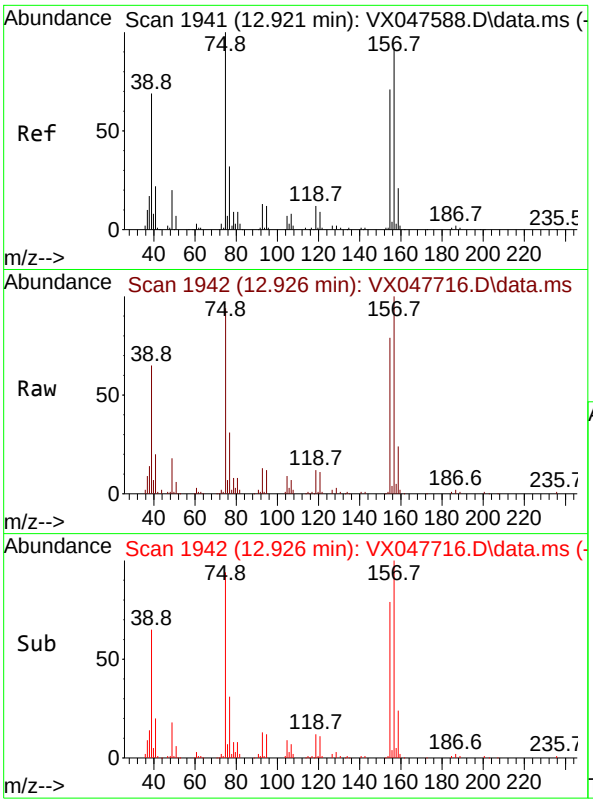


#91
1,2-Dichlorobenzene
Concen: 47.743 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:146 Resp: 198212

Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.2	66.6
148	63.6	31.8	95.4





#92
1,2-Dibromo-3-Chloropropane
Concen: 49.514 ug/l
RT: 12.926 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

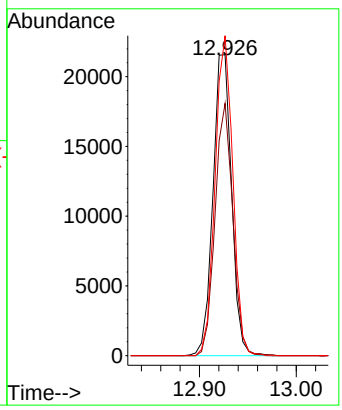
Tgt Ion: 75 Resp: 2889

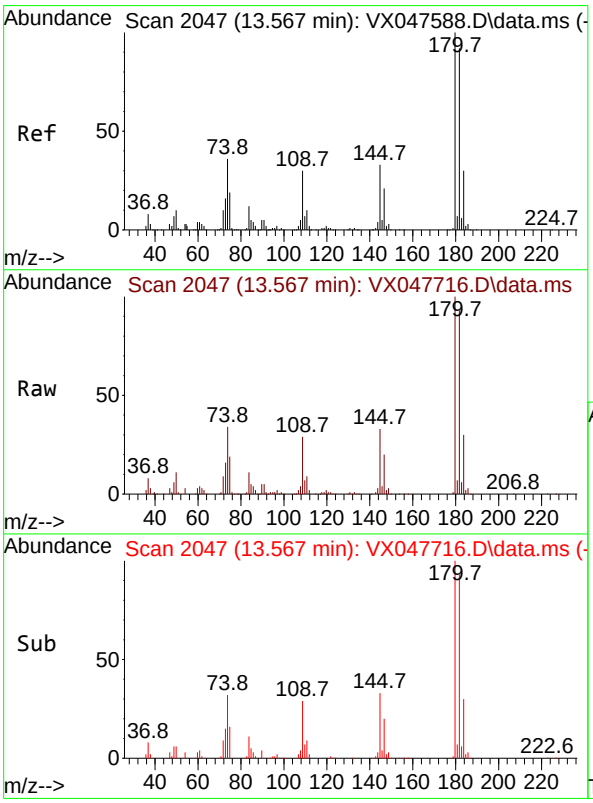
Ion	Ratio	Lower	Upper
75	100		
155	80.0	37.7	113.1
157	100.9	49.8	149.4

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

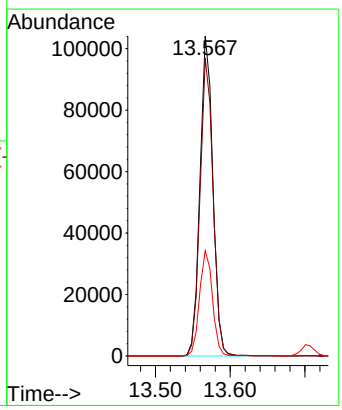


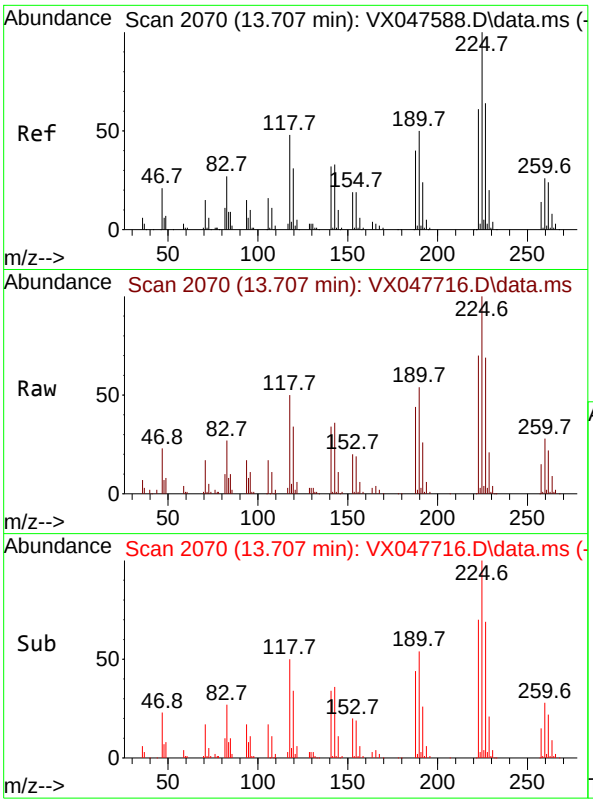


#93
1,2,4-Trichlorobenzene
Concen: 46.147 ug/l
RT: 13.567 min Scan# 2047
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:180 Resp: 124512

Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.6	139.8
145	33.1	16.4	49.1

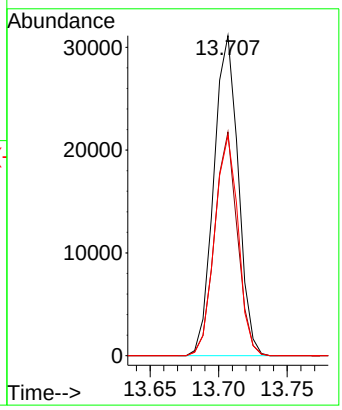




#94
Hexachlorobutadiene
Concen: 42.087 ug/l
RT: 13.707 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:225 Resp: 3857

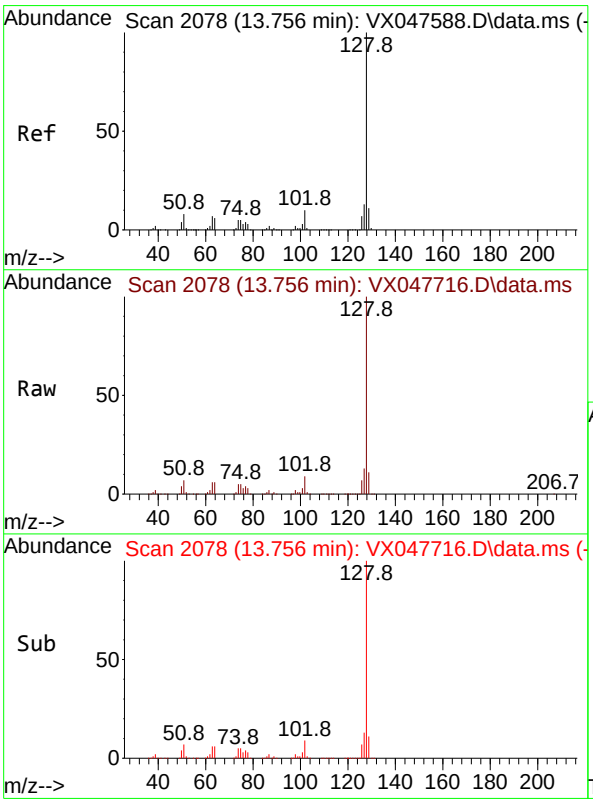
Ion	Ratio	Lower	Upper
225	100		
223	65.2	31.7	95.1
227	66.2	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
APPROVED

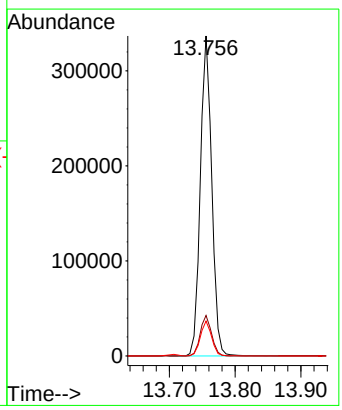
Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

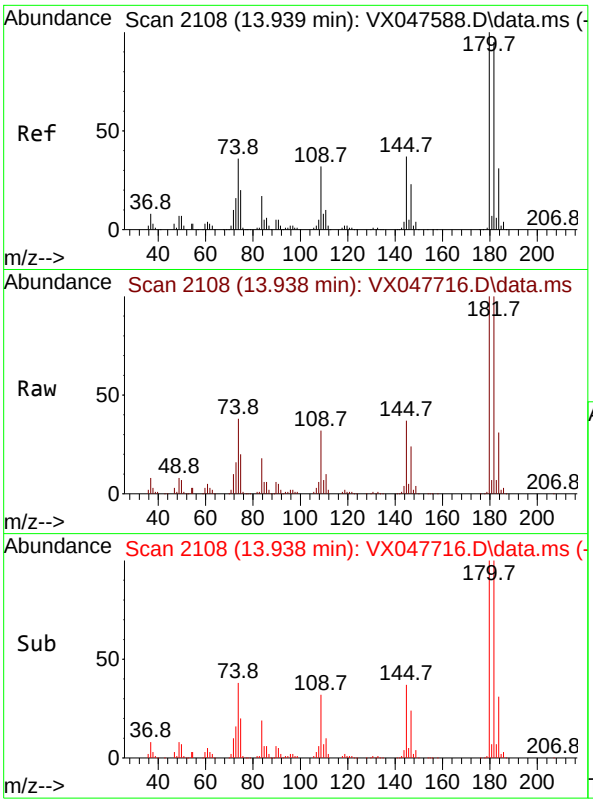


#95
Naphthalene
Concen: 49.503 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:128 Resp: 406725

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.7	8.8	13.2

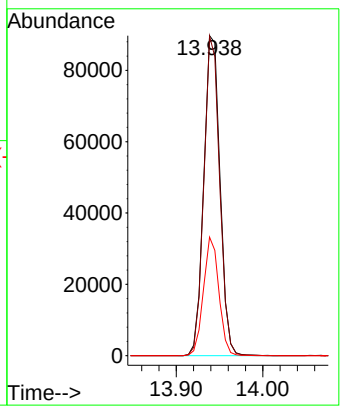




#96
1,2,3-Trichlorobenzene
Concen: 46.580 ug/l
RT: 13.938 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:180 Resp: 11691

Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.6	142.8
145	35.3	17.9	53.7



Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vx091625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX047585.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC001	VX047585.D	1,4-Dichlorobenzene	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC001	VX047585.D	1,4-Dioxane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC005	VX047586.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:50 AM	MMDadoda	9/18/2025 3:22:12 PM	Peak Integrated by Software
VSTDICC020	VX047587.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:57 AM	MMDadoda	9/18/2025 3:22:15 PM	Peak Integrated by Software
VSTDICCC050	VX047588.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:01 AM	MMDadoda	9/18/2025 3:22:17 PM	Peak Integrated by Software
VSTDICC100	VX047589.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:06 AM	MMDadoda	9/18/2025 3:22:20 PM	Peak Integrated by Software
VSTDICC150	VX047590.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:11 AM	MMDadoda	9/18/2025 3:22:24 PM	Peak Integrated by Software
VSTDICV050	VX047592.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:15 AM	MMDadoda	9/18/2025 3:22:26 PM	Peak Integrated by Software
VSTDCCC050	VX047599.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:34 AM	MMDadoda	9/18/2025 3:22:31 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX091925	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047660.D	1,2,3-Trichloropropane	SAM	9/22/2025 7:00:28 AM	MMDadoda	9/22/2025 7:03:05 AM	Peak Integrated by Software
VX0919WBS01	VX047663.D	1,2,3-Trichloropropane	SAM	9/22/2025 7:00:39 AM	MMDadoda	9/22/2025 7:03:07 AM	Peak Integrated by Software
Q3097-08	VX047680.D	Chloroform	SAM	9/22/2025 7:00:41 AM	MMDadoda	9/22/2025 7:03:08 AM	Peak Integrated by Software
VSTDCCC050	VX047687.D	1,2,3-Trichloropropane	SAM	9/22/2025 7:00:43 AM	MMDadoda	9/22/2025 7:03:10 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX092225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047689.D	1,2,3-Trichloropropane	JOHN	9/23/2025 8:13:13 AM	MMDadoda	9/24/2025 2:19:56 AM	Peak Integrated by Software
VX0922WBS01	VX047692.D	1,2,3-Trichloropropane	JOHN	9/23/2025 8:13:18 AM	MMDadoda	9/24/2025 2:19:57 AM	Peak Integrated by Software
Q3097-02MS	VX047715.D	1,2,3-Trichloropropane	JOHN	9/23/2025 8:14:06 AM	MMDadoda	9/24/2025 2:20:31 AM	Peak Integrated by Software
Q3097-03MSD	VX047716.D	1,2,3-Trichloropropane	JOHN	9/23/2025 8:14:14 AM	MMDadoda	9/24/2025 2:20:32 AM	Peak Integrated by Software
VSTDCCC050	VX047717.D	1,2,3-Trichloropropane	JOHN	9/23/2025 8:14:19 AM	MMDadoda	9/24/2025 2:20:34 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	Vx092325	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047719.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:08:47 AM	MMDadoda	9/26/2025 1:42:21 AM	Peak Integrated by Software
VX0923WBS02	VX047723.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:08:55 AM	MMDadoda	9/26/2025 1:42:24 AM	Peak Integrated by Software
Q3097-19	VX047737.D	Acetone	JOHN	9/24/2025 8:09:04 AM	MMDadoda	9/26/2025 1:42:27 AM	Peak Integrated by Software
Q3097-20	VX047738.D	Acetone	JOHN	9/24/2025 8:09:09 AM	MMDadoda	9/26/2025 1:42:28 AM	Peak Integrated by Software
Q3097-20	VX047738.D	Tetrahydrofuran	JOHN	9/24/2025 8:09:09 AM	MMDadoda	9/26/2025 1:42:28 AM	Peak Integrated by Software
VSTDCCC050	VX047744.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:09:13 AM	MMDadoda	9/26/2025 1:42:30 AM	Peak Integrated by Software
VSTDCCC050	VX047746.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:09:17 AM	MMDadoda	9/26/2025 1:42:31 AM	Peak Integrated by Software
VX0923WBS03	VX047748.D	1,2,3-Trichloropropane	JOHN	9/24/2025 8:09:22 AM	MMDadoda	9/26/2025 1:42:33 AM	Peak Integrated by Software
VSTDCCC050	VX047767.D	1,2,3-Trichloropropane	JOHN	9/25/2025 10:16:21 AM	MMDadoda	9/26/2025 1:42:40 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX092425	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047769.D	1,2,3-Trichloropropane	JOHN	9/25/2025 10:20:44 AM	MMDadoda	9/26/2025 1:47:32 AM	Peak Integrated by Software
VX0924WBS01	VX047772.D	1,2,3-Trichloropropane	JOHN	9/25/2025 10:20:48 AM	MMDadoda	9/26/2025 1:47:34 AM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM		
SubDirectory	VX091625	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135487
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494
CCC	VP135488
Internal Standard/PEM	
ICV/I.BLK	VP135495
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047584.D	16 Sep 2025 08:56	JC/MD	Ok
2	VSTDICC001	VX047585.D	16 Sep 2025 09:23	JC/MD	Ok,M
3	VSTDICC005	VX047586.D	16 Sep 2025 10:16	JC/MD	Ok,M
4	VSTDICC020	VX047587.D	16 Sep 2025 10:37	JC/MD	Ok,M
5	VSTDICCC050	VX047588.D	16 Sep 2025 10:58	JC/MD	Ok,M
6	VSTDICC100	VX047589.D	16 Sep 2025 11:40	JC/MD	Ok,M
7	VSTDICC150	VX047590.D	16 Sep 2025 12:01	JC/MD	Ok,M
8	IBLK	VX047591.D	16 Sep 2025 12:22	JC/MD	Ok
9	VSTDICV050	VX047592.D	16 Sep 2025 13:35	JC/MD	Ok,M
10	VX0916MBL01	VX047593.D	16 Sep 2025 14:03	JC/MD	Ok
11	VX0916WBL01	VX047594.D	16 Sep 2025 14:53	JC/MD	Ok
12	VX0916WBS01	VX047595.D	16 Sep 2025 15:21	JC/MD	Ok,M
13	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46	JC/MD	Ok,M
14	Q3015-01	VX047597.D	16 Sep 2025 16:07	JC/MD	Ok,M
15	VIBLK	VX047598.D	16 Sep 2025 16:30	JC/MD	Ok
16	VSTDCCC050	VX047599.D	16 Sep 2025 16:51	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX091925

Review By	Semsettin Yesilyurt	Review On	9/22/2025 7:00:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/22/2025 7:03:24 AM		
SubDirectory	VX091925	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135543
Initial Calibration Stds	
CCC	VP135544,VP135545
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047659.D	19 Sep 2025 08:17	JC/MD	Ok
2	VSTDCCC050	VX047660.D	19 Sep 2025 09:22	JC/MD	Ok,M
3	VX0919MBL01	VX047661.D	19 Sep 2025 09:50	JC/MD	Ok
4	VX0919WBL01	VX047662.D	19 Sep 2025 10:11	JC/MD	Ok
5	VX0919WBS01	VX047663.D	19 Sep 2025 10:38	JC/MD	Ok,M
6	VX0919WBSD01	VX047664.D	19 Sep 2025 11:05	JC/MD	Ok,M
7	Q3095-23DL	VX047665.D	19 Sep 2025 11:26	JC/MD	Ok
8	Q3095-25DL	VX047666.D	19 Sep 2025 11:47	JC/MD	Ok
9	Q3095-29DL	VX047667.D	19 Sep 2025 12:08	JC/MD	Ok
10	Q3095-24	VX047668.D	19 Sep 2025 12:29	JC/MD	Ok
11	Q3135-01	VX047669.D	19 Sep 2025 12:50	JC/MD	Ok
12	Q3095-26	VX047670.D	19 Sep 2025 13:11	JC/MD	Ok
13	Q3095-27	VX047671.D	19 Sep 2025 13:32	JC/MD	Ok
14	Q3095-30	VX047672.D	19 Sep 2025 13:52	JC/MD	Ok
15	Q3095-31	VX047673.D	19 Sep 2025 14:13	JC/MD	Ok
16	Q3095-32	VX047674.D	19 Sep 2025 14:34	JC/MD	Ok
17	Q3097-26	VX047675.D	19 Sep 2025 14:55	JC/MD	ReRun
18	Q3097-04	VX047676.D	19 Sep 2025 15:15	JC/MD	Ok
19	Q3097-05	VX047677.D	19 Sep 2025 15:36	JC/MD	Ok
20	Q3097-06	VX047678.D	19 Sep 2025 15:57	JC/MD	Ok
21	Q3097-07	VX047679.D	19 Sep 2025 16:17	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX091925

Review By	Semsettin Yesilyurt	Review On	9/22/2025 7:00:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/22/2025 7:03:24 AM		
SubDirectory	VX091925	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135543
Initial Calibration Stds	
CCC	VP135544,VP135545
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3097-08	VX047680.D	19 Sep 2025 16:38	JC/MD	Dilution
23	Q3097-09	VX047681.D	19 Sep 2025 16:59	JC/MD	ReRun
24	Q3097-10	VX047682.D	19 Sep 2025 17:20	JC/MD	Not Ok
25	Q3097-11	VX047683.D	19 Sep 2025 17:40	JC/MD	Ok
26	Q3097-12	VX047684.D	19 Sep 2025 18:01	JC/MD	Ok
27	Q3097-13	VX047685.D	19 Sep 2025 18:22	JC/MD	Ok
28	Q3097-14	VX047686.D	19 Sep 2025 18:42	JC/MD	Dilution
29	VSTDCCC050	VX047687.D	19 Sep 2025 19:03	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092225

Review By	John Carlone	Review On	9/23/2025 8:29:39 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/24/2025 2:20:47 AM		
SubDirectory	VX092225	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135556,VP135576
Initial Calibration Stds	
CCC	VP135557,VP135558,VP135577,VP135578
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047688.D	22 Sep 2025 09:07	JC/MD	Ok
2	VSTDCCC050	VX047689.D	22 Sep 2025 09:38	JC/MD	Ok,M
3	VX0922MBL01	VX047690.D	22 Sep 2025 10:07	JC/MD	Ok
4	VX0922WBL01	VX047691.D	22 Sep 2025 10:27	JC/MD	Ok
5	VX0922WBS01	VX047692.D	22 Sep 2025 10:54	JC/MD	Ok,M
6	Q3097-08DL	VX047693.D	22 Sep 2025 11:21	JC/MD	Ok
7	VX0922WBSD01	VX047694.D	22 Sep 2025 11:42	JC/MD	Ok,M
8	Q3097-07DL	VX047695.D	22 Sep 2025 12:03	JC/MD	Ok
9	Q3097-14DL	VX047696.D	22 Sep 2025 12:23	JC/MD	Ok
10	Q3097-09	VX047697.D	22 Sep 2025 12:44	JC/MD	Ok
11	Q3097-10	VX047698.D	22 Sep 2025 13:05	JC/MD	Ok
12	Q3097-26	VX047699.D	22 Sep 2025 13:25	JC/MD	Ok
13	PB169755TB	VX047700.D	22 Sep 2025 13:46	JC/MD	Ok
14	Q3133-02	VX047701.D	22 Sep 2025 14:07	JC/MD	Ok
15	Q3133-04	VX047702.D	22 Sep 2025 14:28	JC/MD	Ok,M
16	Q3133-06	VX047703.D	22 Sep 2025 14:48	JC/MD	Ok,M
17	Q3133-08	VX047704.D	22 Sep 2025 15:09	JC/MD	Ok,M
18	Q3153-04	VX047705.D	22 Sep 2025 15:30	JC/MD	Ok,M
19	Q3153-08	VX047706.D	22 Sep 2025 15:51	JC/MD	Ok
20	Q3157-02	VX047707.D	22 Sep 2025 16:11	JC/MD	Ok,M
21	Q3136-01	VX047708.D	22 Sep 2025 16:32	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092225

Review By	John Carlone	Review On	9/23/2025 8:29:39 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/24/2025 2:20:47 AM		
SubDirectory	VX092225	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135556,VP135576
Initial Calibration Stds	
CCC	VP135557,VP135558,VP135577,VP135578
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3136-02	VX047709.D	22 Sep 2025 16:53	JC/MD	Ok,M
23	Q3136-03	VX047710.D	22 Sep 2025 17:14	JC/MD	Ok
24	Q3136-04	VX047711.D	22 Sep 2025 17:35	JC/MD	Ok,M
25	Q3136-05	VX047712.D	22 Sep 2025 17:56	JC/MD	Ok
26	IBLK	VX047713.D	22 Sep 2025 18:16	JC/MD	Ok
27	Q3097-01	VX047714.D	22 Sep 2025 18:37	JC/MD	Dilution
28	Q3097-02MS	VX047715.D	22 Sep 2025 18:58	JC/MD	Ok,M
29	Q3097-03MSD	VX047716.D	22 Sep 2025 19:19	JC/MD	Ok,M
30	VSTDCCC050	VX047717.D	22 Sep 2025 19:40	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047718.D	23 Sep 2025 08:05	JC/MD	Ok
2	VSTDCCC050	VX047719.D	23 Sep 2025 09:02	JC/MD	Ok,M
3	VX0923MBL01	VX047720.D	23 Sep 2025 09:31	JC/MD	Ok
4	VX0923WBL01	VX047721.D	23 Sep 2025 10:22	JC/MD	Ok
5	VX0923WBS01	VX047722.D	23 Sep 2025 10:48	JC/MD	Not Ok
6	VX0923WBS02	VX047723.D	23 Sep 2025 11:15	JC/MD	Ok,M
7	Q3097-01DL	VX047724.D	23 Sep 2025 11:36	JC/MD	Ok
8	Q3141-01	VX047725.D	23 Sep 2025 12:22	JC/MD	Ok
9	VX0923WBSD02	VX047726.D	23 Sep 2025 12:43	JC/MD	Ok,M
10	Q3141-02	VX047727.D	23 Sep 2025 13:04	JC/MD	ReRun
11	Q3097-18	VX047728.D	23 Sep 2025 13:25	JC/MD	Ok
12	Q3097-16	VX047729.D	23 Sep 2025 13:46	JC/MD	Ok
13	Q3141-03	VX047730.D	23 Sep 2025 14:07	JC/MD	Ok
14	Q3141-04	VX047731.D	23 Sep 2025 14:28	JC/MD	ReRun
15	Q3141-05	VX047732.D	23 Sep 2025 14:49	JC/MD	Ok
16	Q3141-06	VX047733.D	23 Sep 2025 15:10	JC/MD	Ok
17	Q3141-07	VX047734.D	23 Sep 2025 15:31	JC/MD	Ok
18	Q3097-15	VX047735.D	23 Sep 2025 15:52	JC/MD	Ok
19	Q3097-17	VX047736.D	23 Sep 2025 16:13	JC/MD	Ok
20	Q3097-19	VX047737.D	23 Sep 2025 16:34	JC/MD	Dilution
21	Q3097-20	VX047738.D	23 Sep 2025 16:55	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3097-21	VX047739.D	23 Sep 2025 17:16	JC/MD	Dilution
23	Q3097-22	VX047740.D	23 Sep 2025 17:36	JC/MD	Ok
24	Q3097-23	VX047741.D	23 Sep 2025 17:57	JC/MD	Dilution
25	Q3097-24	VX047742.D	23 Sep 2025 18:18	JC/MD	Ok
26	Q3151-02	VX047743.D	23 Sep 2025 18:39	JC/MD	Ok
27	VSTDCCC050	VX047744.D	23 Sep 2025 19:00	JC/MD	Ok,M
28	BFB	VX047745.D	24 Sep 2025 01:30	JC/MD	Ok
29	VSTDCCC050	VX047746.D	24 Sep 2025 02:08	JC/MD	Ok,M
30	VX0923WBL02	VX047747.D	24 Sep 2025 03:11	JC/MD	Ok
31	VX0923WBS03	VX047748.D	24 Sep 2025 03:53	JC/MD	Ok,M
32	VX0923WBSD03	VX047749.D	24 Sep 2025 04:14	JC/MD	Ok,M
33	Q3127-03	VX047750.D	24 Sep 2025 04:52	JC/MD	Dilution
34	Q3127-05	VX047751.D	24 Sep 2025 05:13	JC/MD	Ok
35	Q3127-06	VX047752.D	24 Sep 2025 05:34	JC/MD	Dilution
36	Q3127-08	VX047753.D	24 Sep 2025 05:55	JC/MD	Dilution
37	Q3127-09	VX047754.D	24 Sep 2025 06:16	JC/MD	Dilution
38	Q3127-10	VX047755.D	24 Sep 2025 06:37	JC/MD	ReRun
39	Q3127-12	VX047756.D	24 Sep 2025 06:58	JC/MD	Dilution
40	Q3127-16	VX047757.D	24 Sep 2025 07:19	JC/MD	ReRun
41	Q3127-18	VX047758.D	24 Sep 2025 07:40	JC/MD	ReRun
42	Q3127-07	VX047759.D	24 Sep 2025 08:01	JC/MD	Not Ok
43	Q3141-04	VX047760.D	24 Sep 2025 08:22	JC/MD	Ok
44	Q3141-02	VX047761.D	24 Sep 2025 08:43	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	Q3127-04	VX047762.D	24 Sep 2025 09:04	JC/MD	Dilution
46	Q3097-25	VX047763.D	24 Sep 2025 09:25	JC/MD	Dilution
47	Q3127-13	VX047764.D	24 Sep 2025 09:46	JC/MD	ReRun
48	Q3127-14MS	VX047765.D	24 Sep 2025 10:07	JC/MD	Ok,M
49	Q3127-15MSD	VX047766.D	24 Sep 2025 10:29	JC/MD	Ok,M
50	VSTDCCC050	VX047767.D	24 Sep 2025 10:50	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092425

Review By	John Carlone	Review On	9/25/2025 10:58:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:47:46 AM		
SubDirectory	VX092425	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135605,VP135608
Initial Calibration Stds	
CCC	VP135606,VP135607,VP135609,VP135610
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047768.D	24 Sep 2025 11:16	JC/MD	Ok
2	VSTDCCC050	VX047769.D	24 Sep 2025 11:46	JC/MD	Ok,M
3	VX0924MBL01	VX047770.D	24 Sep 2025 12:14	JC/MD	Ok
4	VX0924WBL01	VX047771.D	24 Sep 2025 13:04	JC/MD	Ok
5	VX0924WBS01	VX047772.D	24 Sep 2025 13:59	JC/MD	Ok,M
6	Q3097-21DL	VX047773.D	24 Sep 2025 14:20	JC/MD	Ok
7	VX0924WBSD01	VX047774.D	24 Sep 2025 14:41	JC/MD	Ok,M
8	Q3097-19DL	VX047775.D	24 Sep 2025 15:02	JC/MD	Ok
9	Q3097-20DL	VX047776.D	24 Sep 2025 15:23	JC/MD	Ok
10	Q3097-23DL	VX047777.D	24 Sep 2025 15:44	JC/MD	Ok
11	Q3097-25DL	VX047778.D	24 Sep 2025 16:05	JC/MD	Ok
12	Q3097-22RE	VX047779.D	24 Sep 2025 16:25	JC/MD	Not Ok
13	Q3127-03DL	VX047780.D	24 Sep 2025 16:46	JC/MD	Ok
14	Q3127-16DL	VX047781.D	24 Sep 2025 17:07	JC/MD	Ok
15	Q3127-06DL	VX047782.D	24 Sep 2025 17:28	JC/MD	Ok
16	Q3127-08DL	VX047783.D	24 Sep 2025 17:49	JC/MD	Ok
17	Q3127-09DL	VX047784.D	24 Sep 2025 18:09	JC/MD	Ok
18	Q3127-12DL	VX047785.D	24 Sep 2025 18:30	JC/MD	Ok
19	Q3127-07	VX047786.D	24 Sep 2025 18:51	JC/MD	Ok
20	Q3127-10RE	VX047787.D	24 Sep 2025 19:12	JC/MD	Confirms
21	Q3127-18	VX047788.D	24 Sep 2025 19:33	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092425

Review By	John Carlone	Review On	9/25/2025 10:58:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:47:46 AM		
SubDirectory	VX092425	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135605,VP135608
Initial Calibration Stds	
CCC	VP135606,VP135607,VP135609,VP135610
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3127-02	VX047789.D	24 Sep 2025 19:54	JC/MD	Dilution
23	Q3127-19	VX047790.D	24 Sep 2025 20:14	JC/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM		
SubDirectory	VX091625	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135487
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494
CCC	VP135488
Internal Standard/PEM	
ICV/I.BLK	VP135495
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047584.D	16 Sep 2025 08:56		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX047585.D	16 Sep 2025 09:23		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX047586.D	16 Sep 2025 10:16	QR-58	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX047587.D	16 Sep 2025 10:37		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX047588.D	16 Sep 2025 10:58		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX047589.D	16 Sep 2025 11:40		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX047590.D	16 Sep 2025 12:01		JC/MD	Ok,M
8	IBLK	IBLK	VX047591.D	16 Sep 2025 12:22		JC/MD	Ok
9	VSTDICV050	ICVVX091625	VX047592.D	16 Sep 2025 13:35		JC/MD	Ok,M
10	VX0916MBL01	VX0916MBL01	VX047593.D	16 Sep 2025 14:03		JC/MD	Ok
11	VX0916WBL01	VX0916WBL01	VX047594.D	16 Sep 2025 14:53		JC/MD	Ok
12	VX0916WBS01	VX0916WBS01	VX047595.D	16 Sep 2025 15:21		JC/MD	Ok,M
13	VX0916WBSD01	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46		JC/MD	Ok,M
14	Q3015-01	WP0925-PT-VOA-WP	VX047597.D	16 Sep 2025 16:07		JC/MD	Ok,M
15	VIBLK	VIBLK	VX047598.D	16 Sep 2025 16:30		JC/MD	Ok
16	VSTDCCC050	VSTDCCC050EC	VX047599.D	16 Sep 2025 16:51		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX091925

Review By	Semsettin Yesilyurt	Review On	9/22/2025 7:00:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/22/2025 7:03:24 AM		
SubDirectory	VX091925	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135543
Initial Calibration Stds	
CCC	VP135544,VP135545
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047659.D	19 Sep 2025 08:17		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047660.D	19 Sep 2025 09:22	pH#Lot#V12668	JC/MD	Ok,M
3	VX0919MBL01	VX0919MBL01	VX047661.D	19 Sep 2025 09:50		JC/MD	Ok
4	VX0919WBL01	VX0919WBL01	VX047662.D	19 Sep 2025 10:11		JC/MD	Ok
5	VX0919WBS01	VX0919WBS01	VX047663.D	19 Sep 2025 10:38		JC/MD	Ok,M
6	VX0919WBSD01	VX0919WBSD01	VX047664.D	19 Sep 2025 11:05		JC/MD	Ok,M
7	Q3095-23DL	RE104D2-20250910DL	VX047665.D	19 Sep 2025 11:26	vial B pH<2	JC/MD	Ok
8	Q3095-25DL	DUP02-20250910DL	VX047666.D	19 Sep 2025 11:47	vial B pH<2	JC/MD	Ok
9	Q3095-29DL	RE122D2-20250910DL	VX047667.D	19 Sep 2025 12:08	vial B pH<2	JC/MD	Ok
10	Q3095-24	MW178I-20250910	VX047668.D	19 Sep 2025 12:29	vial B pH<2	JC/MD	Ok
11	Q3135-01	MH-121	VX047669.D	19 Sep 2025 12:50	vial A pH<2	JC/MD	Ok
12	Q3095-26	DUP03-20250910	VX047670.D	19 Sep 2025 13:11	vial B pH<2	JC/MD	Ok
13	Q3095-27	RE117D1-20250910	VX047671.D	19 Sep 2025 13:32	vial B pH<2	JC/MD	Ok
14	Q3095-30	RE104D1-20250910	VX047672.D	19 Sep 2025 13:52	vial B pH<2	JC/MD	Ok
15	Q3095-31	TT180D-20250911	VX047673.D	19 Sep 2025 14:13	vial B pH<2	JC/MD	Ok
16	Q3095-32	RE122D3-20250911	VX047674.D	19 Sep 2025 14:34	vial B pH<2	JC/MD	Ok
17	Q3097-26	EB01-20250912	VX047675.D	19 Sep 2025 14:55	vial A pH<2 EB,Hit of com.#16	JC/MD	ReRun
18	Q3097-04	RE125D1-20250911	VX047676.D	19 Sep 2025 15:15	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX091925

Review By	Semsettin Yesilyurt	Review On	9/22/2025 7:00:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/22/2025 7:03:24 AM		
SubDirectory	VX091925	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135543
Initial Calibration Stds	
CCC	VP135544,VP135545
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3097-05	RE125D3-20250911	VX047677.D	19 Sep 2025 15:36	vial A pH<2	JC/MD	Ok
20	Q3097-06	RE103D3-20250911	VX047678.D	19 Sep 2025 15:57	vial A pH<2	JC/MD	Ok
21	Q3097-07	RE108D2-20250911	VX047679.D	19 Sep 2025 16:17	vial A pH<2 Need 20X	JC/MD	Dilution
22	Q3097-08	RE125D2-20250911	VX047680.D	19 Sep 2025 16:38	vial A pH<2 Need 5X	JC/MD	Dilution
23	Q3097-09	RE108D1-20250911	VX047681.D	19 Sep 2025 16:59	vial A pH<2 E flag of previous sample	JC/MD	ReRun
24	Q3097-10	RE120D3-20250911	VX047682.D	19 Sep 2025 17:20	vial A pH<2 Confirm Concentration	JC/MD	Not Ok
25	Q3097-11	RE105D1-20250911	VX047683.D	19 Sep 2025 17:40	vial A pH<2	JC/MD	Ok
26	Q3097-12	DUP04-20250911	VX047684.D	19 Sep 2025 18:01	vial A pH<2	JC/MD	Ok
27	Q3097-13	DUP05-20250911	VX047685.D	19 Sep 2025 18:22	vial A pH<2	JC/MD	Ok
28	Q3097-14	RE105D2-20250911	VX047686.D	19 Sep 2025 18:42	vial A pH<2 Need 20X	JC/MD	Dilution
29	VSTDCCC050	VSTDCCC050EC	VX047687.D	19 Sep 2025 19:03		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092225

Review By	John Carlone	Review On	9/23/2025 8:29:39 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/24/2025 2:20:47 AM		
SubDirectory	VX092225	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135556,VP135576
Initial Calibration Stds	
CCC	VP135557,VP135558,VP135577,VP135578
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047688.D	22 Sep 2025 09:07		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047689.D	22 Sep 2025 09:38	pH#Lot#V12668	JC/MD	Ok,M
3	VX0922MBL01	VX0922MBL01	VX047690.D	22 Sep 2025 10:07		JC/MD	Ok
4	VX0922WBL01	VX0922WBL01	VX047691.D	22 Sep 2025 10:27		JC/MD	Ok
5	VX0922WBS01	VX0922WBS01	VX047692.D	22 Sep 2025 10:54		JC/MD	Ok,M
6	Q3097-08DL	RE125D2-20250911DL	VX047693.D	22 Sep 2025 11:21	vial B pH<2	JC/MD	Ok
7	VX0922WBSD01	VX0922WBSD01	VX047694.D	22 Sep 2025 11:42		JC/MD	Ok,M
8	Q3097-07DL	RE108D2-20250911DL	VX047695.D	22 Sep 2025 12:03	vial B pH<2	JC/MD	Ok
9	Q3097-14DL	RE105D2-20250911DL	VX047696.D	22 Sep 2025 12:23	vial B pH<2	JC/MD	Ok
10	Q3097-09	RE108D1-20250911	VX047697.D	22 Sep 2025 12:44	vial B pH<2	JC/MD	Ok
11	Q3097-10	RE120D3-20250911	VX047698.D	22 Sep 2025 13:05	vial B pH<2	JC/MD	Ok
12	Q3097-26	EB01-20250912	VX047699.D	22 Sep 2025 13:25	vial B pH<2 EB	JC/MD	Ok
13	PB169755TB	PB169755TB	VX047700.D	22 Sep 2025 13:46		JC/MD	Ok
14	Q3133-02	VNJ-238	VX047701.D	22 Sep 2025 14:07	vial A pH#5.0	JC/MD	Ok
15	Q3133-04	VNJ-222	VX047702.D	22 Sep 2025 14:28	vial A pH#5.0	JC/MD	Ok,M
16	Q3133-06	361	VX047703.D	22 Sep 2025 14:48	vial A pH#5.0	JC/MD	Ok,M
17	Q3133-08	VNJ-210	VX047704.D	22 Sep 2025 15:09	vial A pH#5.0	JC/MD	Ok,M
18	Q3153-04	OR-500-COMP-39	VX047705.D	22 Sep 2025 15:30	vial A pH#5.0	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092225

Review By	John Carlone	Review On	9/23/2025 8:29:39 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/24/2025 2:20:47 AM		
SubDirectory	VX092225	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135556,VP135576
Initial Calibration Stds	
CCC	VP135557,VP135558,VP135577,VP135578
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3153-08	OR-500-COMP-40	VX047706.D	22 Sep 2025 15:51	vial A pH#5.0	JC/MD	Ok
20	Q3157-02	20-DEAD-1	VX047707.D	22 Sep 2025 16:11	vial A pH#5.0	JC/MD	Ok,M
21	Q3136-01	34922	VX047708.D	22 Sep 2025 16:32	vial A pH#5.0	JC/MD	Ok
22	Q3136-02	34923	VX047709.D	22 Sep 2025 16:53	vial A pH#5.0	JC/MD	Ok,M
23	Q3136-03	34924	VX047710.D	22 Sep 2025 17:14	vial A pH#5.0	JC/MD	Ok
24	Q3136-04	34925	VX047711.D	22 Sep 2025 17:35	vial A pH#5.0	JC/MD	Ok,M
25	Q3136-05	34926	VX047712.D	22 Sep 2025 17:56	vial A pH#5.0	JC/MD	Ok
26	IBLK	IBLK	VX047713.D	22 Sep 2025 18:16		JC/MD	Ok
27	Q3097-01	RE103D2-20250911	VX047714.D	22 Sep 2025 18:37	vial A pH<2 Surrogate Fail;Need 5X Dilution	JC/MD	Dilution
28	Q3097-02MS	RE103D2-20250911MS	VX047715.D	22 Sep 2025 18:58	vial A pH<2	JC/MD	Ok,M
29	Q3097-03MSD	RE103D2-20250911MS	VX047716.D	22 Sep 2025 19:19	vial A pH<2	JC/MD	Ok,M
30	VSTDCCC050	VSTDCCC050EC	VX047717.D	22 Sep 2025 19:40		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047718.D	23 Sep 2025 08:05		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047719.D	23 Sep 2025 09:02	pH#Lot#V12668	JC/MD	Ok,M
3	VX0923MBL01	VX0923MBL01	VX047720.D	23 Sep 2025 09:31		JC/MD	Ok
4	VX0923WBL01	VX0923WBL01	VX047721.D	23 Sep 2025 10:22		JC/MD	Ok
5	VX0923WBS01	VX0923WBS01	VX047722.D	23 Sep 2025 10:48	Recovery fail	JC/MD	Not Ok
6	VX0923WBS02	VX0923WBS02	VX047723.D	23 Sep 2025 11:15		JC/MD	Ok,M
7	Q3097-01DL	RE103D2-20250911DL	VX047724.D	23 Sep 2025 11:36	vial B pH<2	JC/MD	Ok
8	Q3141-01	BP-VPB-184-TB-20250	VX047725.D	23 Sep 2025 12:22	vial A pH<2 TB	JC/MD	Ok
9	VX0923WBSD02	VX0923WBSD02	VX047726.D	23 Sep 2025 12:43		JC/MD	Ok,M
10	Q3141-02	BP-VPB-184-EB-20250	VX047727.D	23 Sep 2025 13:04	vial A pH<2 EB;Hit of Com.#16,25	JC/MD	ReRun
11	Q3097-18	TB05-20250912	VX047728.D	23 Sep 2025 13:25	vial A pH<2 TB	JC/MD	Ok
12	Q3097-16	TB03-20250911	VX047729.D	23 Sep 2025 13:46	vial A pH<2 TB	JC/MD	Ok
13	Q3141-03	BP-VPB-184-GW-60-62	VX047730.D	23 Sep 2025 14:07	vial A pH<2	JC/MD	Ok
14	Q3141-04	BP-VPB-184-GW-100-1	VX047731.D	23 Sep 2025 14:28	vial A pH<2 Surrogate Fail	JC/MD	ReRun
15	Q3141-05	BP-VPB-184-GW-150-1	VX047732.D	23 Sep 2025 14:49	vial A pH<2	JC/MD	Ok
16	Q3141-06	BP-VPB-184-GW-200-2	VX047733.D	23 Sep 2025 15:10	vial A pH<2	JC/MD	Ok
17	Q3141-07	BP-VPB-184-GW-220-2	VX047734.D	23 Sep 2025 15:31	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q3097-15	RE117D2-20250911	VX047735.D	23 Sep 2025 15:52	vial A pH<2	JC/MD	Ok
19	Q3097-17	TB04-20250911	VX047736.D	23 Sep 2025 16:13	vial A pH<2 TB	JC/MD	Ok
20	Q3097-19	RE120D1-20250912	VX047737.D	23 Sep 2025 16:34	vial A pH<2 Need 10X	JC/MD	Dilution
21	Q3097-20	DUP06-20250912	VX047738.D	23 Sep 2025 16:55	vial A pH<2 Need 10X	JC/MD	Dilution
22	Q3097-21	RE120D2-20250912	VX047739.D	23 Sep 2025 17:16	vial A pH<2 Need 5X	JC/MD	Dilution
23	Q3097-22	RE134D1-20250912	VX047740.D	23 Sep 2025 17:36	vial A pH<2	JC/MD	Ok
24	Q3097-23	RE134D4-20250912	VX047741.D	23 Sep 2025 17:57	vial A pH<2 Need 10X	JC/MD	Dilution
25	Q3097-24	RE134D2-20250912	VX047742.D	23 Sep 2025 18:18	vial A pH<2	JC/MD	Ok
26	Q3151-02	1402	VX047743.D	23 Sep 2025 18:39	vial A pH<2	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX047744.D	23 Sep 2025 19:00		JC/MD	Ok,M
28	BFB	BFB	VX047745.D	24 Sep 2025 01:30		JC/MD	Ok
29	VSTDCCC050	VSTDCCC050	VX047746.D	24 Sep 2025 02:08	CCC failed High For Com.#02	JC/MD	Ok,M
30	VX0923WBL02	VX0923WBL02	VX047747.D	24 Sep 2025 03:11		JC/MD	Ok
31	VX0923WBS03	VX0923WBS03	VX047748.D	24 Sep 2025 03:53		JC/MD	Ok,M
32	VX0923WBSD03	VX0923WBSD03	VX047749.D	24 Sep 2025 04:14		JC/MD	Ok,M
33	Q3127-03	RE131D2-20250915	VX047750.D	24 Sep 2025 04:52	vial A pH<2 Need 5X	JC/MD	Dilution
34	Q3127-05	TT158I1-20250915	VX047751.D	24 Sep 2025 05:13	vial A pH<2	JC/MD	Ok
35	Q3127-06	TT180D2-20250915	VX047752.D	24 Sep 2025 05:34	vial A pH<2 Need 10X	JC/MD	Dilution
36	Q3127-08	RE132D6-20250916	VX047753.D	24 Sep 2025 05:55	vial A pH<2 Need 50X	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092325

Review By	John Carlone	Review On	9/25/2025 10:19:51 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:43:07 AM		
SubDirectory	VX092325	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135588,VP135591
Initial Calibration Stds	
CCC	VP135589,VP135590,VP135593,VP135594
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	Q3127-09	TT101D2-20250915	VX047754.D	24 Sep 2025 06:16	vial A pH<2 Need 50X	JC/MD	Dilution
38	Q3127-10	TT101D-20250915	VX047755.D	24 Sep 2025 06:37	vial A pH<2 E flag of previous sample;CCAL Failed High	JC/MD	ReRun
39	Q3127-12	RE132D7-20250916	VX047756.D	24 Sep 2025 06:58	vial A pH<2 Need 50X	JC/MD	Dilution
40	Q3127-16	TT101D2-20250915	VX047757.D	24 Sep 2025 07:19	vial A pH<2 CCC Failed High; Need 5X	JC/MD	ReRun
41	Q3127-18	BPOW1-8-20250917	VX047758.D	24 Sep 2025 07:40	vial A pH<2 E flag of previous sample	JC/MD	ReRun
42	Q3127-07	RE135D2-20250915	VX047759.D	24 Sep 2025 08:01	vial A pH<2 Confirm Concentration	JC/MD	Not Ok
43	Q3141-04	BP-VPB-184-GW-100-1	VX047760.D	24 Sep 2025 08:22	vial B pH<2	JC/MD	Ok
44	Q3141-02	BP-VPB-184-EB-20250	VX047761.D	24 Sep 2025 08:43	vial B pH<2 EB	JC/MD	Ok
45	Q3127-04	DUP07-20250915	VX047762.D	24 Sep 2025 09:04	vial A pH<2 Need 5X	JC/MD	Dilution
46	Q3097-25	RE134D3-20250912	VX047763.D	24 Sep 2025 09:25	vial A pH<2 Need 10X	JC/MD	Dilution
47	Q3127-13	TT119S1-20250916	VX047764.D	24 Sep 2025 09:46	vial A pH<2 E flag of previous sample	JC/MD	ReRun
48	Q3127-14MS	TT119S1-20250916MS	VX047765.D	24 Sep 2025 10:07	vial A pH<2	JC/MD	Ok,M
49	Q3127-15MSD	TT119S1-20250916MS	VX047766.D	24 Sep 2025 10:29	vial A pH<2	JC/MD	Ok,M
50	VSTDCCC050	VSTDCCC050EC	VX047767.D	24 Sep 2025 10:50		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092425

Review By	John Carlone	Review On	9/25/2025 10:58:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:47:46 AM		
SubDirectory	VX092425	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135605,VP135608
Initial Calibration Stds	
CCC	VP135606,VP135607,VP135609,VP135610
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047768.D	24 Sep 2025 11:16		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047769.D	24 Sep 2025 11:46	pH#Lot#V12668	JC/MD	Ok,M
3	VX0924MBL01	VX0924MBL01	VX047770.D	24 Sep 2025 12:14		JC/MD	Ok
4	VX0924WBL01	VX0924WBL01	VX047771.D	24 Sep 2025 13:04		JC/MD	Ok
5	VX0924WBS01	VX0924WBS01	VX047772.D	24 Sep 2025 13:59		JC/MD	Ok,M
6	Q3097-21DL	RE120D2-20250912DL	VX047773.D	24 Sep 2025 14:20	vial B pH<2	JC/MD	Ok
7	VX0924WBSD01	VX0924WBSD01	VX047774.D	24 Sep 2025 14:41		JC/MD	Ok,M
8	Q3097-19DL	RE120D1-20250912DL	VX047775.D	24 Sep 2025 15:02	vial B pH<2	JC/MD	Ok
9	Q3097-20DL	DUP06-20250912DL	VX047776.D	24 Sep 2025 15:23	vial B pH<2	JC/MD	Ok
10	Q3097-23DL	RE134D4-20250912DL	VX047777.D	24 Sep 2025 15:44	vial B pH<2	JC/MD	Ok
11	Q3097-25DL	RE134D3-20250912DL	VX047778.D	24 Sep 2025 16:05	vial B pH<2	JC/MD	Ok
12	Q3097-22RE	RE134D1-20250912RE	VX047779.D	24 Sep 2025 16:25	vial B pH<2 End CCC Missing;Hit Confirmed	JC/MD	Not Ok
13	Q3127-03DL	RE131D2-20250915DL	VX047780.D	24 Sep 2025 16:46	vial B pH<2	JC/MD	Ok
14	Q3127-16DL	TT101D2-20250915DL	VX047781.D	24 Sep 2025 17:07	vial B pH<2	JC/MD	Ok
15	Q3127-06DL	TT180D2-20250915DL	VX047782.D	24 Sep 2025 17:28	vial B pH<2	JC/MD	Ok
16	Q3127-08DL	RE132D6-20250916DL	VX047783.D	24 Sep 2025 17:49	vial B pH<2	JC/MD	Ok
17	Q3127-09DL	TT101D2-20250915DL	VX047784.D	24 Sep 2025 18:09	vial B pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX092425

Review By	John Carlone	Review On	9/25/2025 10:58:56 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/26/2025 1:47:46 AM		
SubDirectory	VX092425	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135605,VP135608
Initial Calibration Stds	
CCC	VP135606,VP135607,VP135609,VP135610
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q3127-12DL	RE132D7-20250916DL	VX047785.D	24 Sep 2025 18:30	vial B pH<2	JC/MD	Ok
19	Q3127-07	RE135D2-20250915	VX047786.D	24 Sep 2025 18:51	vial B pH<2	JC/MD	Ok
20	Q3127-10RE	TT101D-20250915RE	VX047787.D	24 Sep 2025 19:12	vial B pH<2 End CCC Missing	JC/MD	Confirms
21	Q3127-18	BPOW1-8-20250917	VX047788.D	24 Sep 2025 19:33	vial B pH<2	JC/MD	Ok
22	Q3127-02	RE131D1-20250915	VX047789.D	24 Sep 2025 19:54	vial A pH<2 Need 5X	JC/MD	Dilution
23	Q3127-19	BPOW1-7-20250917	VX047790.D	24 Sep 2025 20:14	End CCC Missing	JC/MD	Not Ok

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q3097

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VX091925,VX092225,Vx092325,VX092425,

Standard ID :
VP134142,VP134149,VP134933,VP134956,VP134957,VP135059,VP135480,VP135543,VP135544,VP135545,VP135552,VP135556,VP135557,VP135558,VP135576,VP135577,VP135578,VP135588,VP135589,VP135590,VP135591,VP135593,VP135594,VP135605,VP135606,VP135607,VP135608,VP135609,VP135610,

Chemical ID :
V13391,V14200,V14204,V14205,V14290,V14444,V14446,V14507,V14508,V14509,V14510,V14529,V14530,V14531,V14532,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14702,V14705,V14716,V14727,V14728,V14745,V14751,V14803,V14806,V14807,V14815,V14843,V14844,V14906,V14928,V14929,V14951,V14952,V15066,V15067,V15068,W3112,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP134933	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14906 + 24.60000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP134956	08/01/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135059	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14444 + 1.00000ml of V14446 + 1.00000ml of V14507 + 1.00000ml of V14508 + 1.00000ml of V14529 + 1.00000ml of V14530 + 1.00000ml of V14705 + 1.00000ml of V14745 + 1.00000ml of V14751 + 1.00000ml of V14806 + 1.00000ml of V14807 + 1.50000ml of V14702 + 1.50000ml of V14716 + 10.60000ml of V14625 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135480	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/19/2025

FROM 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135543	09/19/2025	09/20/2025	John Carlone	None	None	Mahesh Dadoda 09/22/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135544	09/19/2025	09/19/2025	John Carlone	None	None	Mahesh Dadoda 09/22/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135480 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135545	09/19/2025	09/19/2025	John Carlone	None	None	Mahesh Dadoda 09/22/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135480 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135556	09/22/2025	09/23/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135557	09/22/2025	09/23/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135558	09/22/2025	09/23/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135576	09/22/2025	09/23/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135577	09/22/2025	09/23/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135578	09/22/2025	09/23/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135588	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135589	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135590	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135591	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135593	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135594	09/23/2025	09/24/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135605	09/24/2025	09/25/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135606	09/24/2025	09/25/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135607	09/24/2025	09/25/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135608	09/24/2025	09/25/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135609	09/24/2025	09/25/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135610	09/24/2025	09/25/2025	John Carlone	None	None	Semsettin Yesilyurt 09/26/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14444

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14446

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14507

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14508

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14529

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14530

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14702

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14705

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14716

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14745

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14807

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15066

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15067

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15068

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

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For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

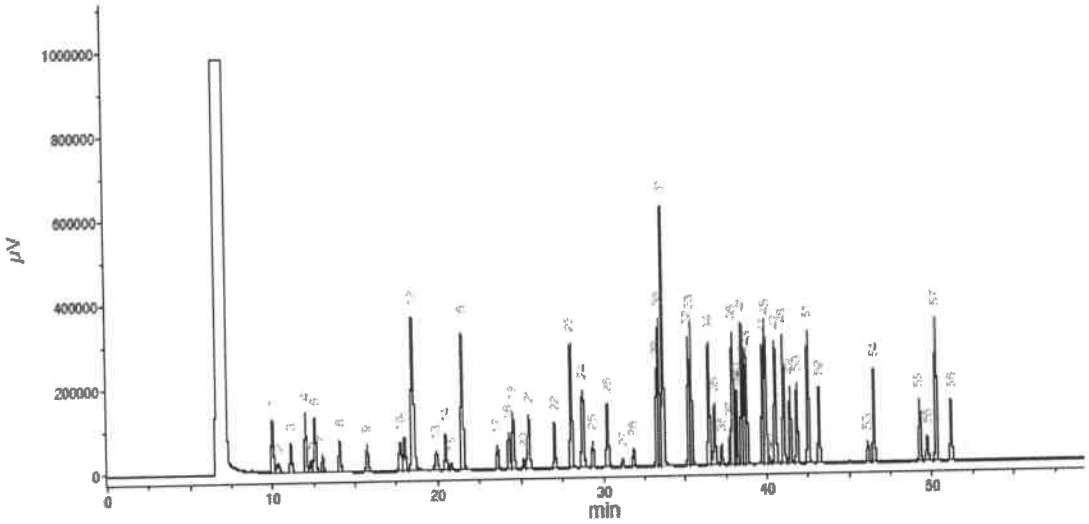
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.12
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 5E-05 Balance Uncertainty 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

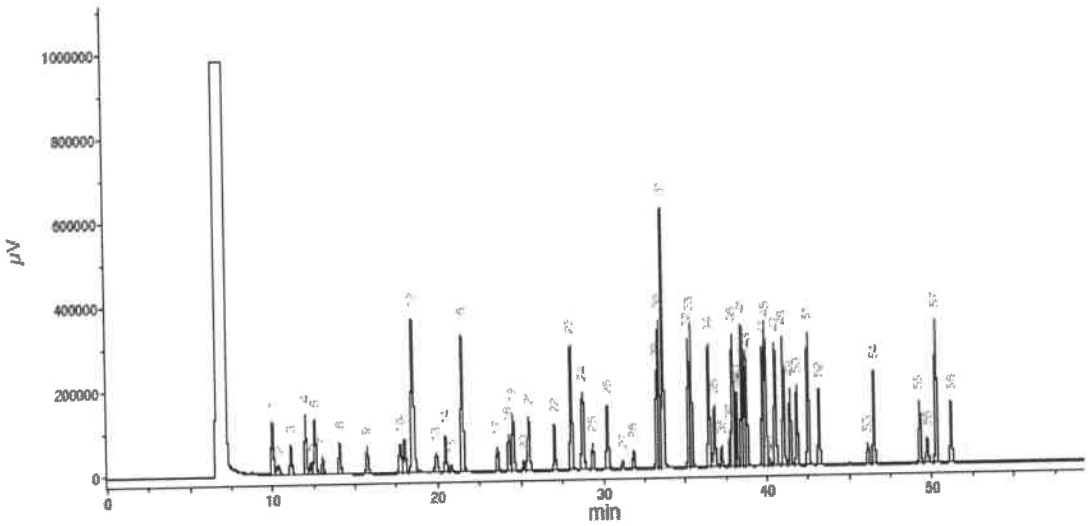
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	0.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty (5E-05 Balance Uncertainty)

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

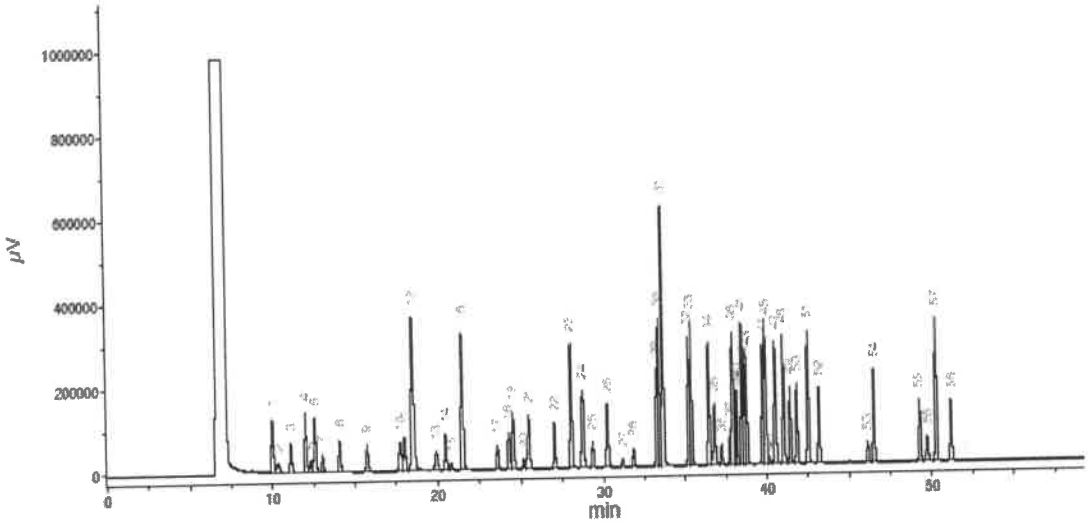
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	0.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.12
50	1,4-Dichlorobenzene	41.33
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

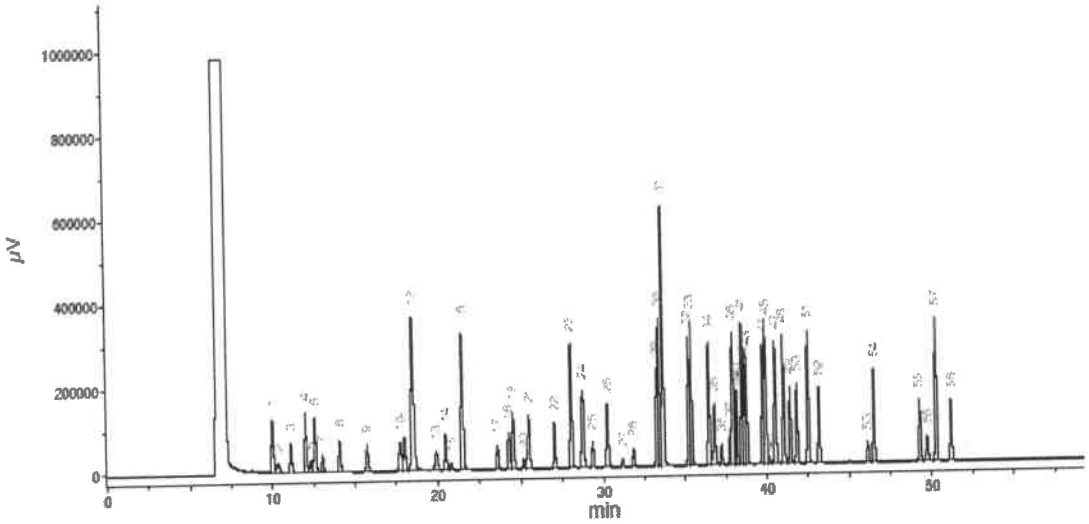
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.12
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0

Solvent(s): **Lot#**
Water 072324Q

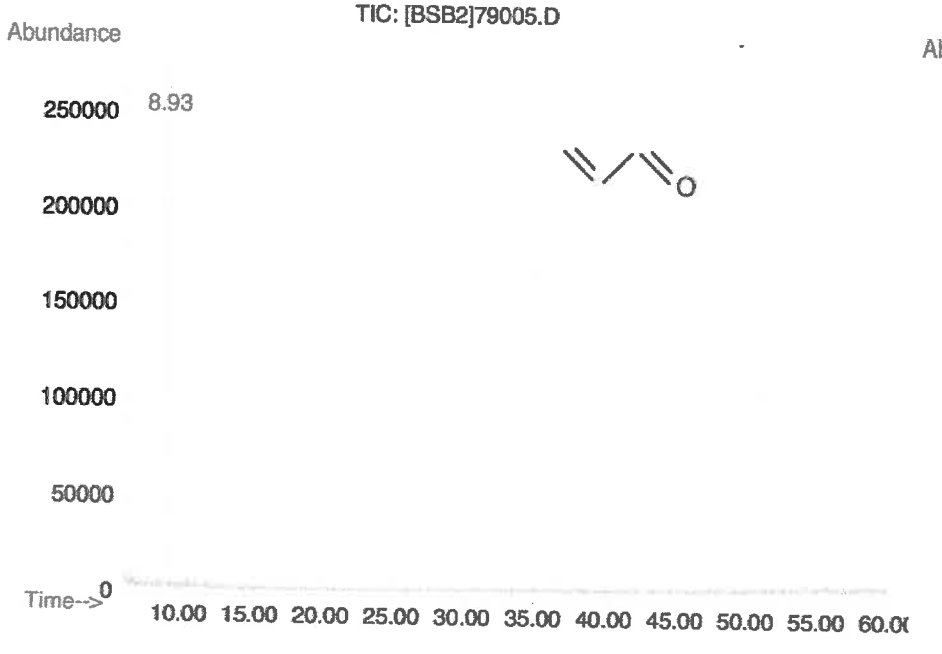
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

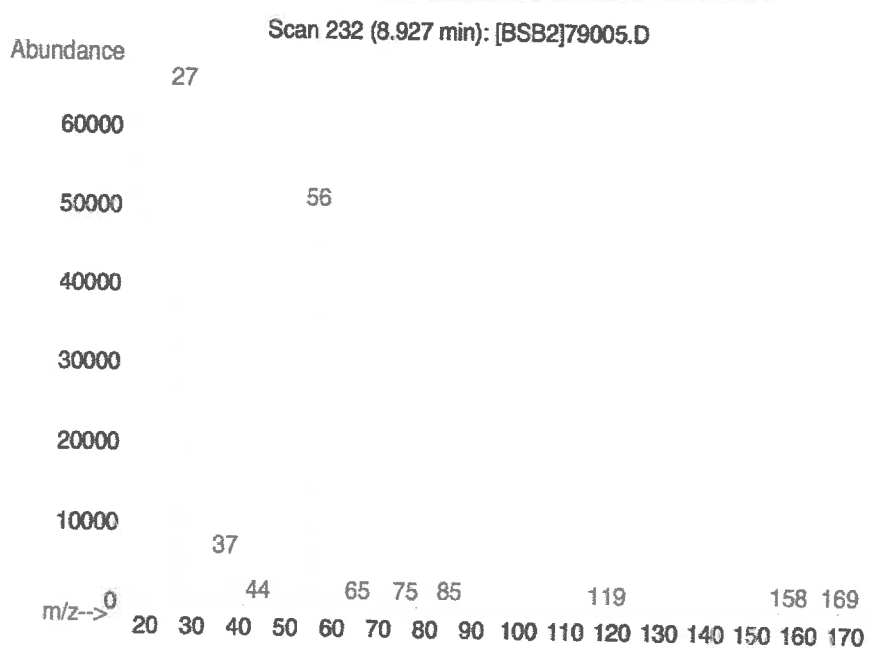
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

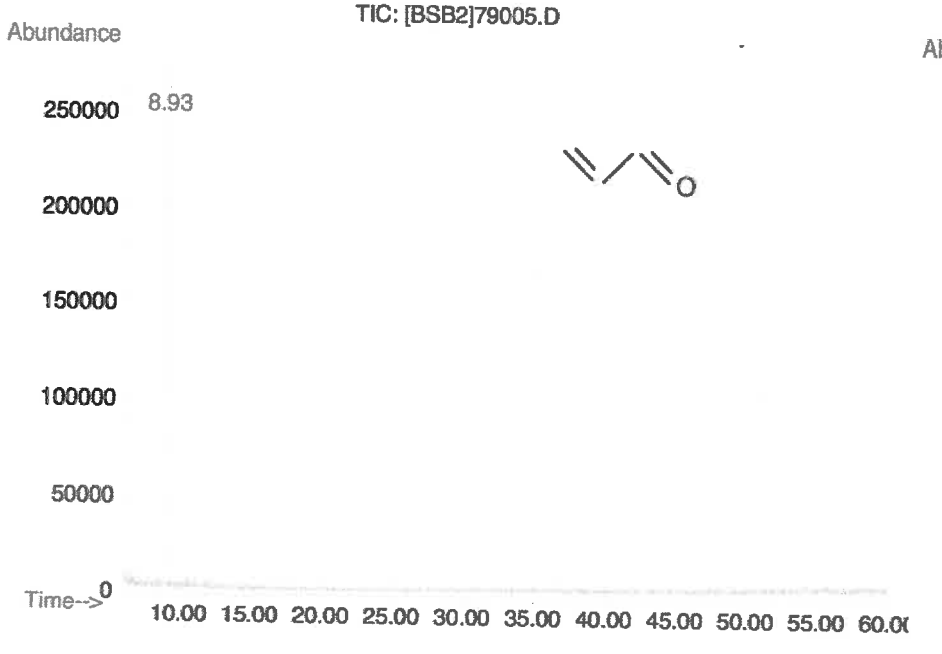
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

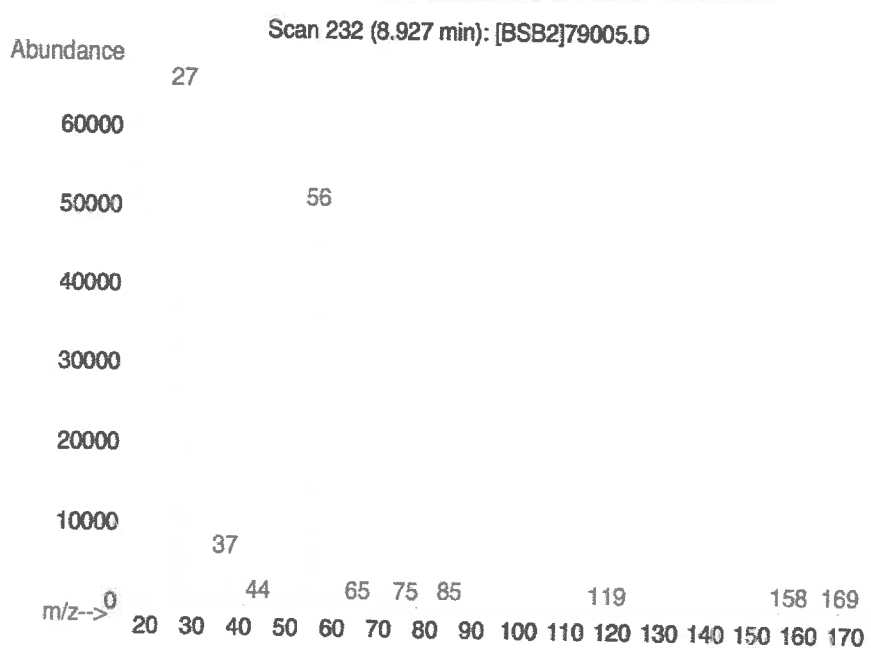
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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CERTIFIED WEIGHT REPORT

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Solvent(s): Water **Lot#** 072324Q

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
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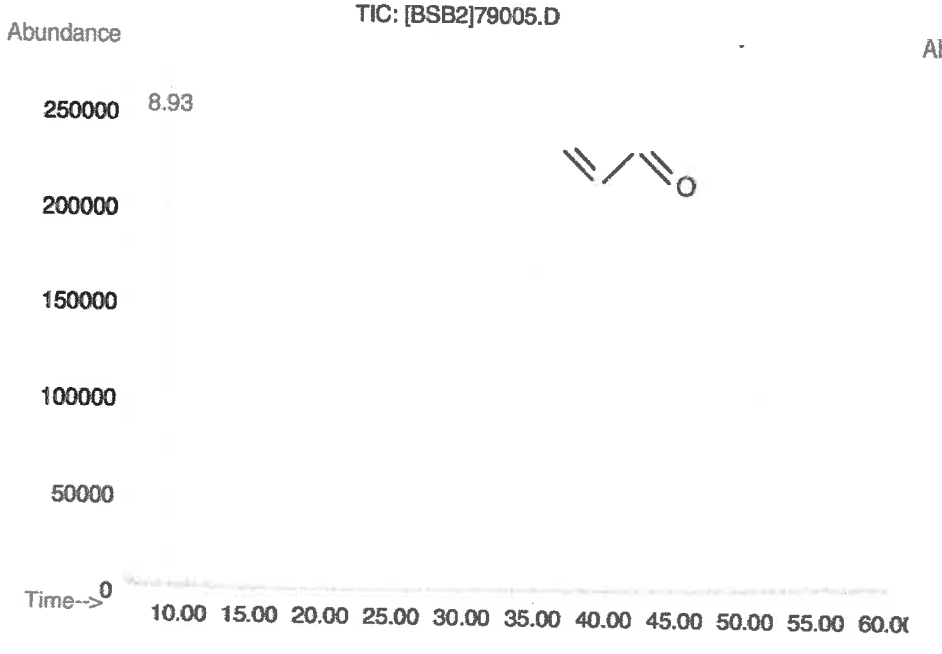

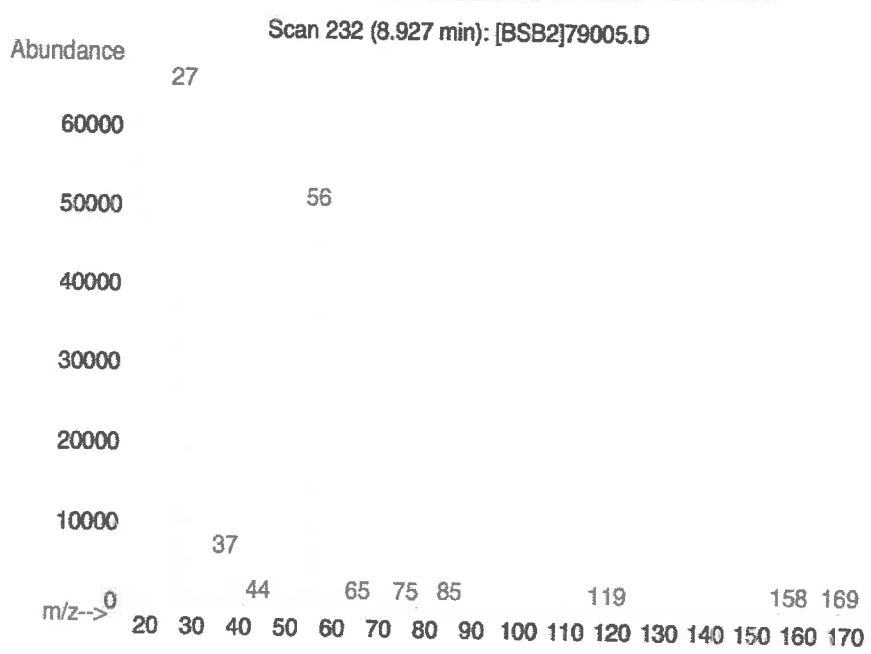

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
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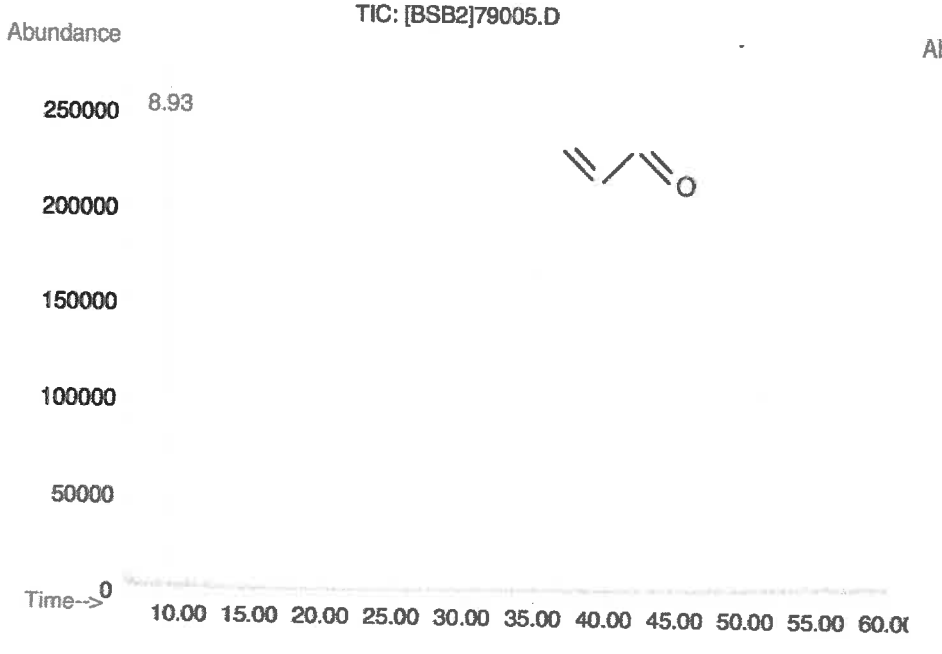

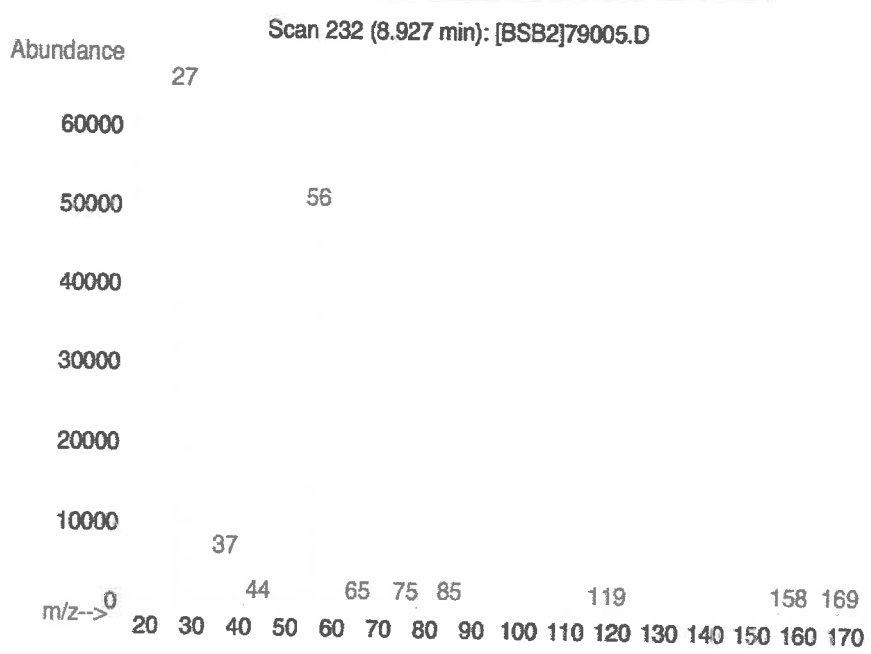

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Exp 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

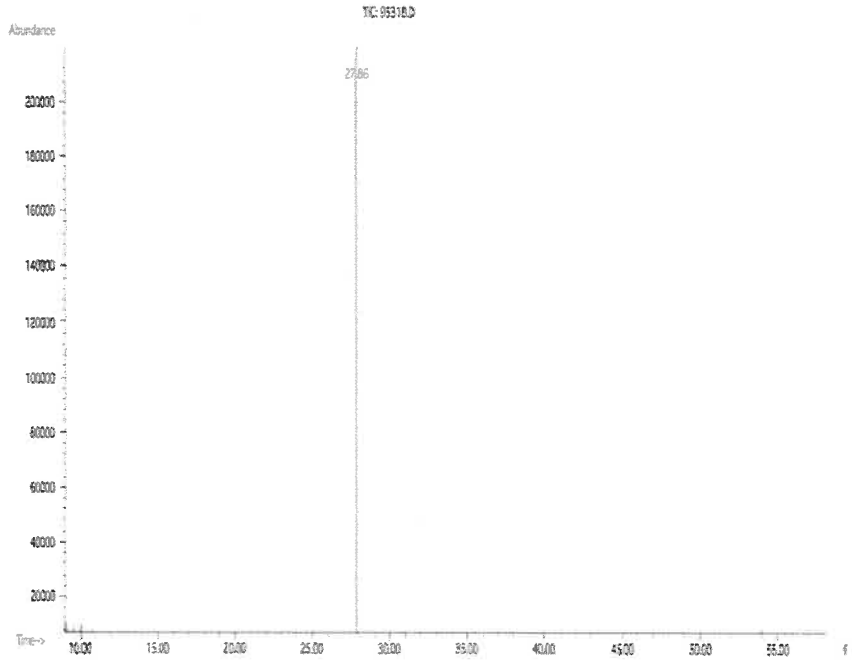
Solvent(s): Methanol **Lot#** EJ143-US

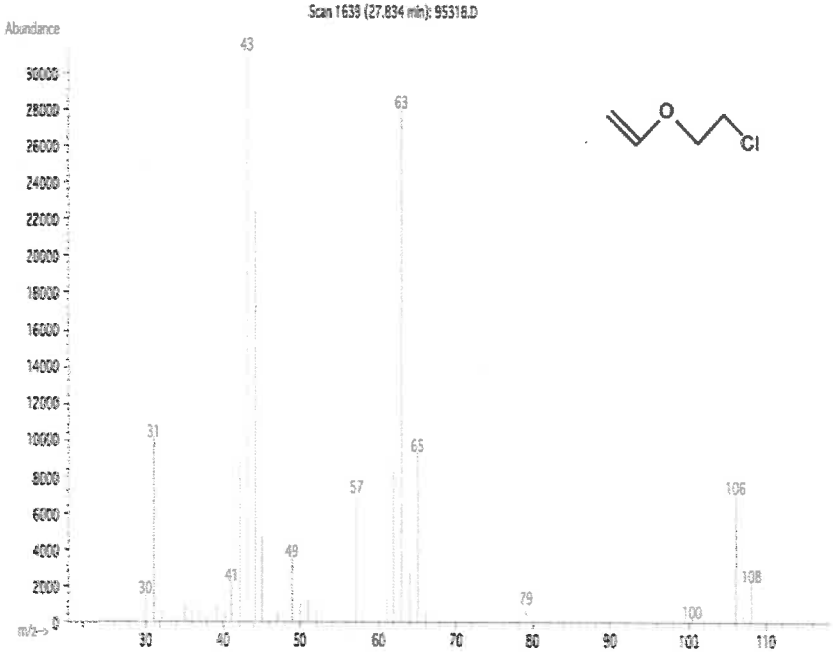
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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20 vial

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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EJ143-US

V14630 to V14649

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
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Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
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Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
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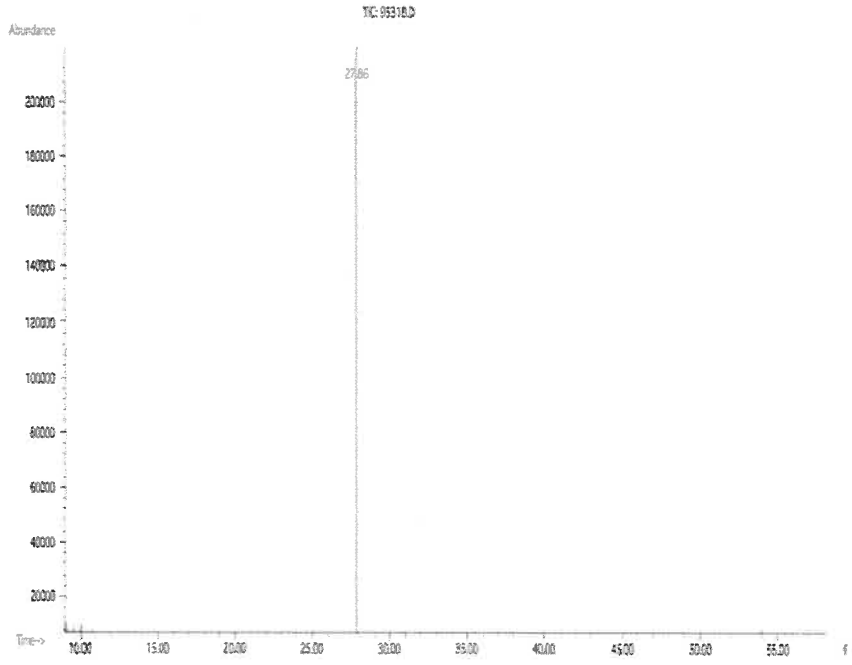

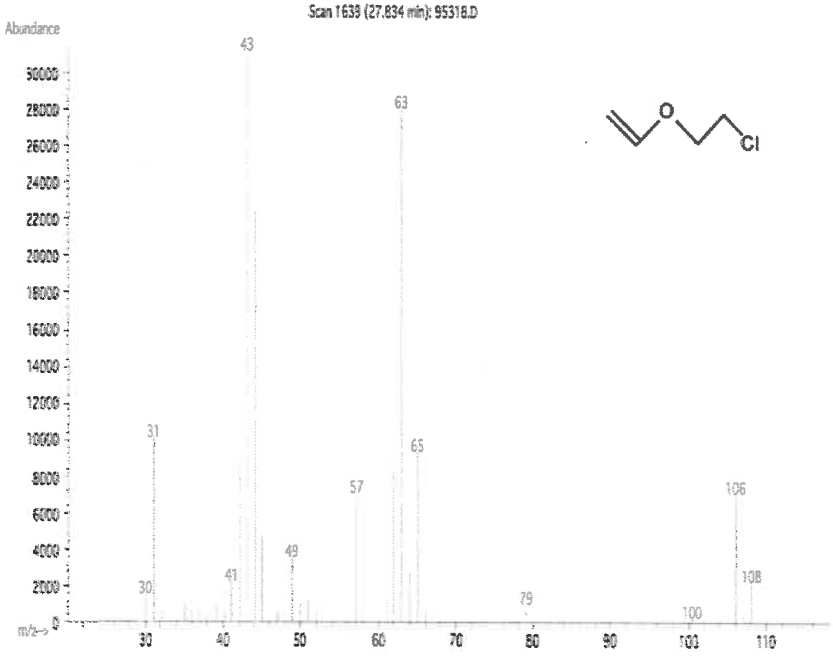

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Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
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Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
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Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

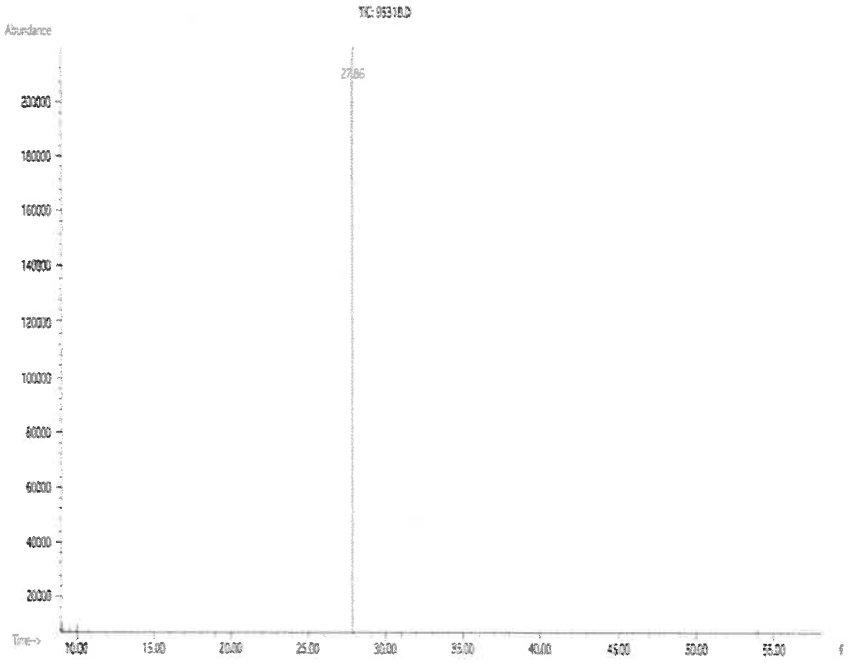
Solvent(s): Methanol **Lot#** EJ143-US

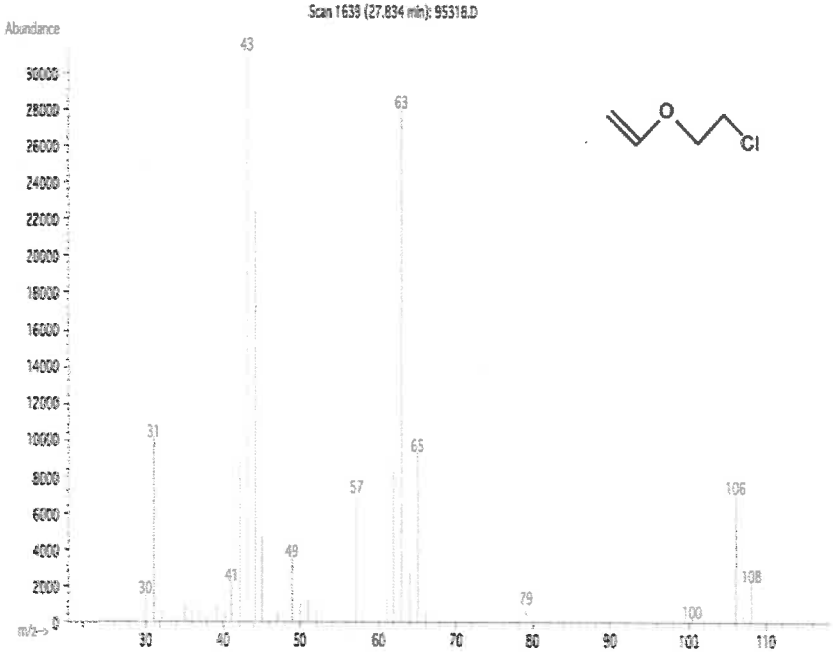
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas	120524	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
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Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

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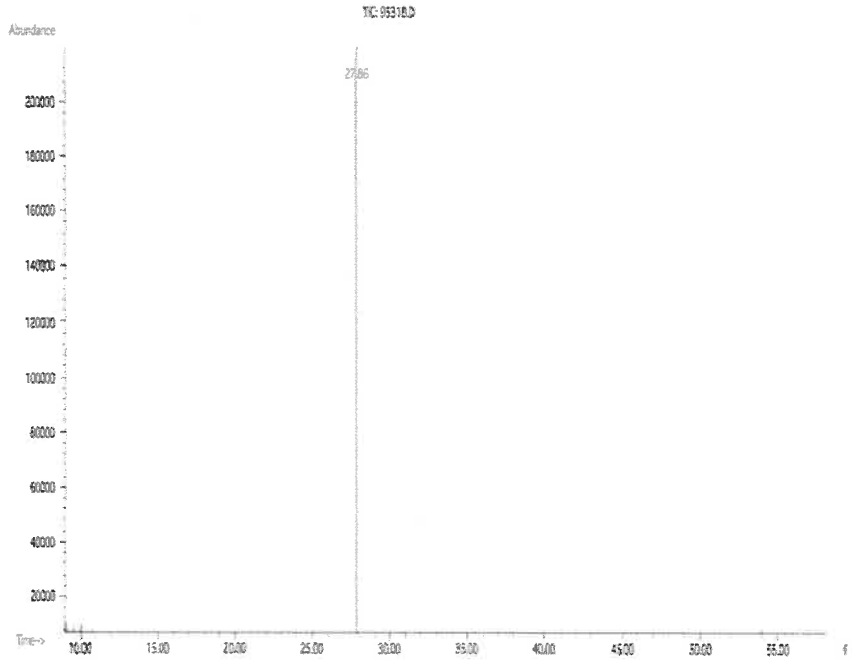

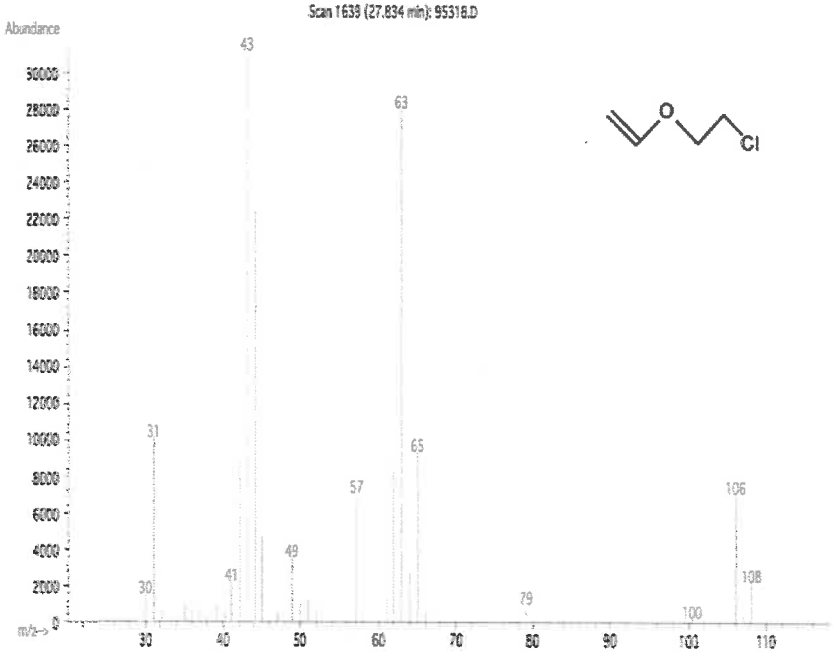

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RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

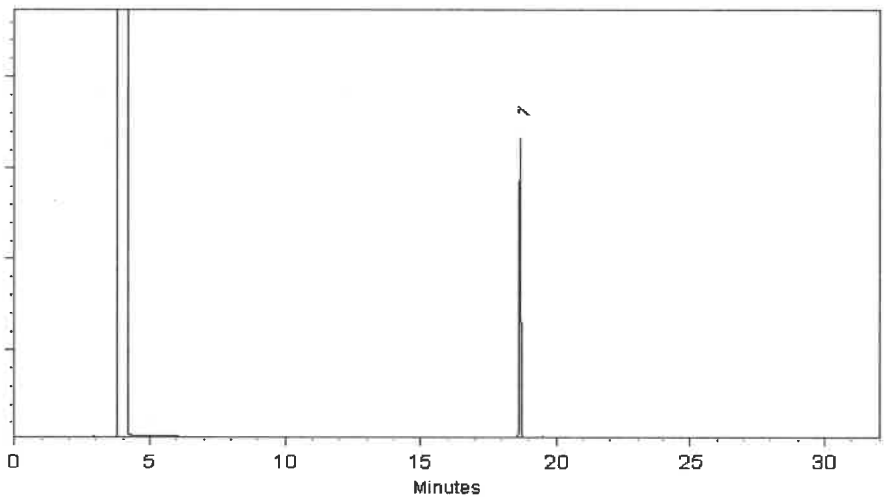
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

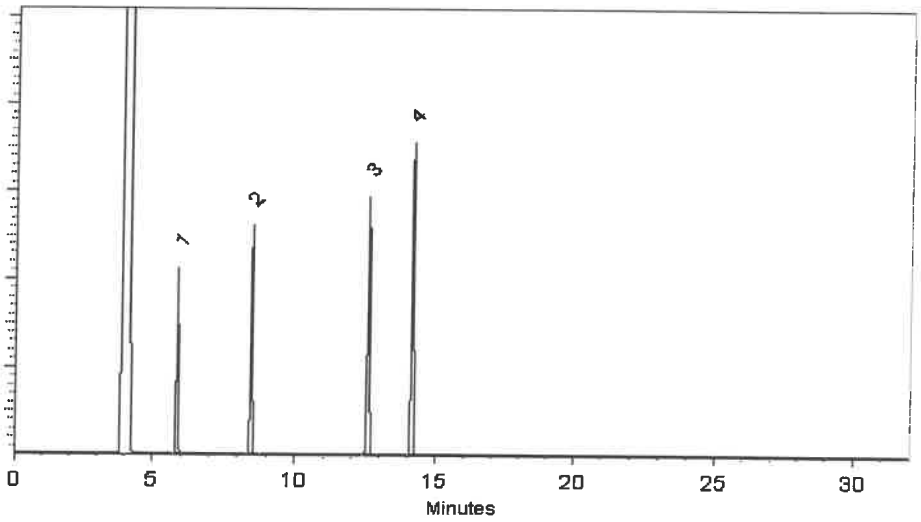
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

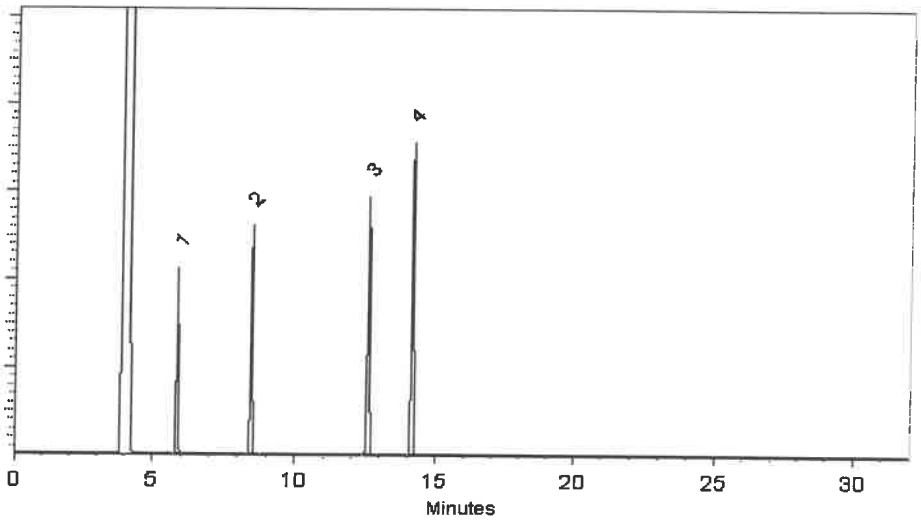
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

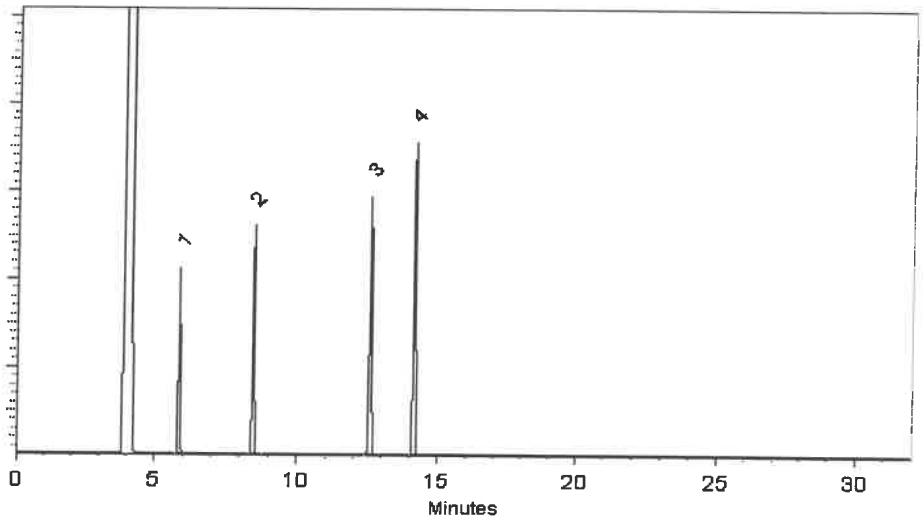
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

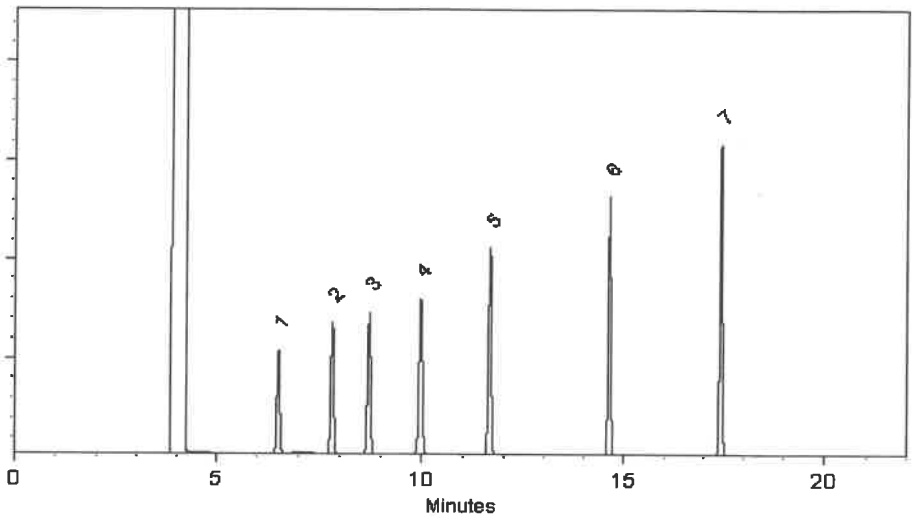
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

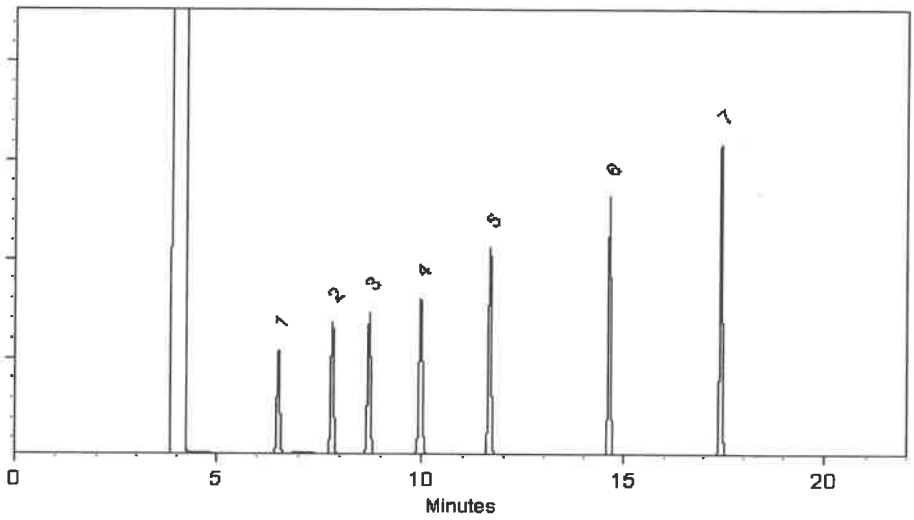
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

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V14697-to-14726

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

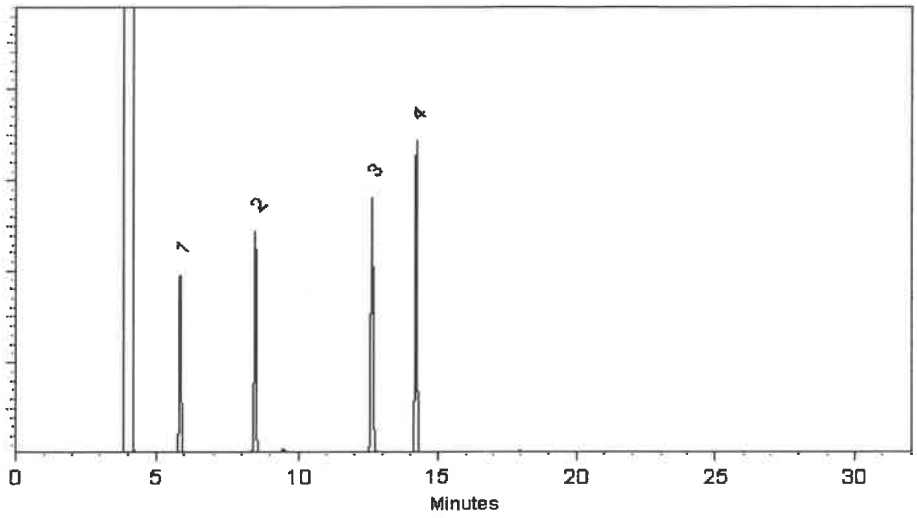
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

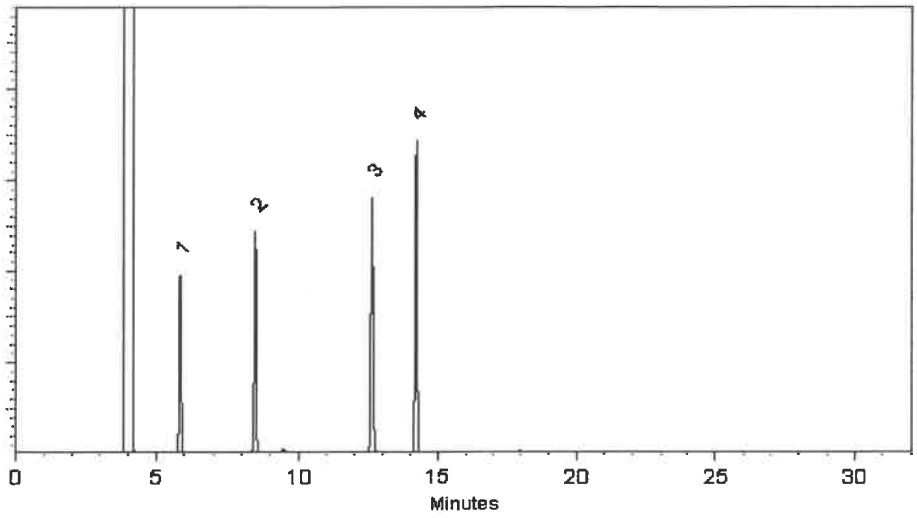
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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:

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Certificate of Analysis

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

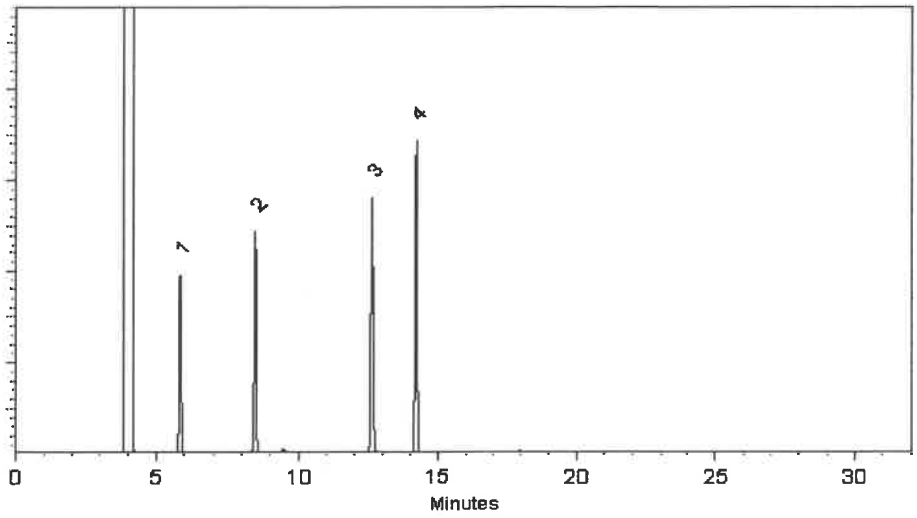
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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:

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10 vial.

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Exp: 12/09/24

Certificate of Analysis

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V14667
V14676

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

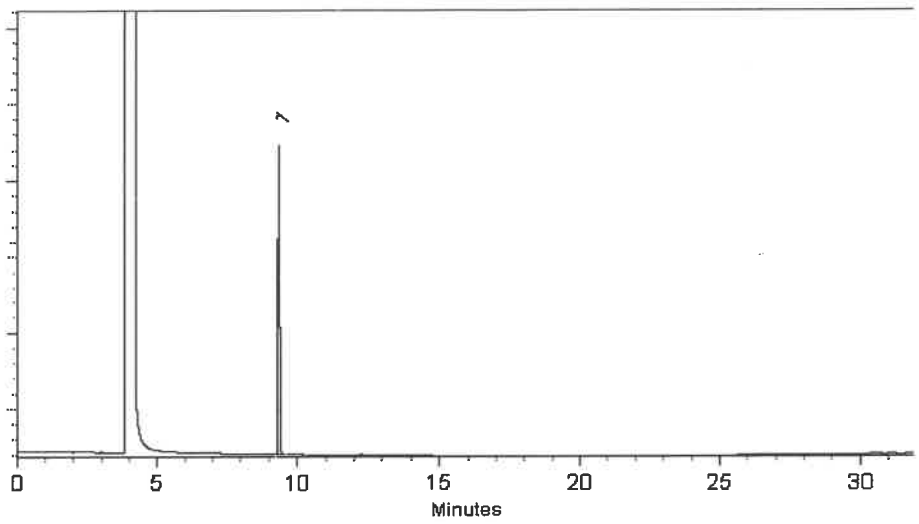
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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10 vial.

CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

chromatographic plus

V14667 to
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ACCREDITED
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ACCREDITED
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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. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

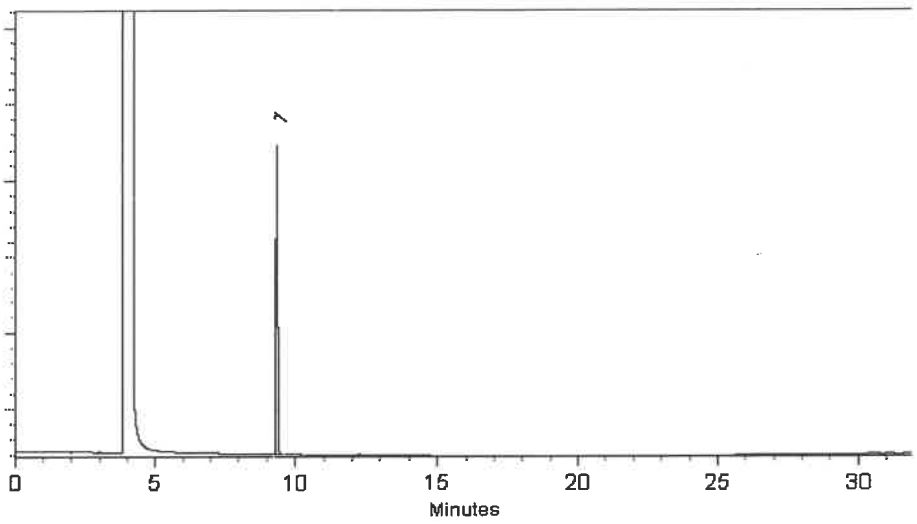
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Stacey Wanner - Operations Technician I **Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Fax: 1-814-353-1309

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10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

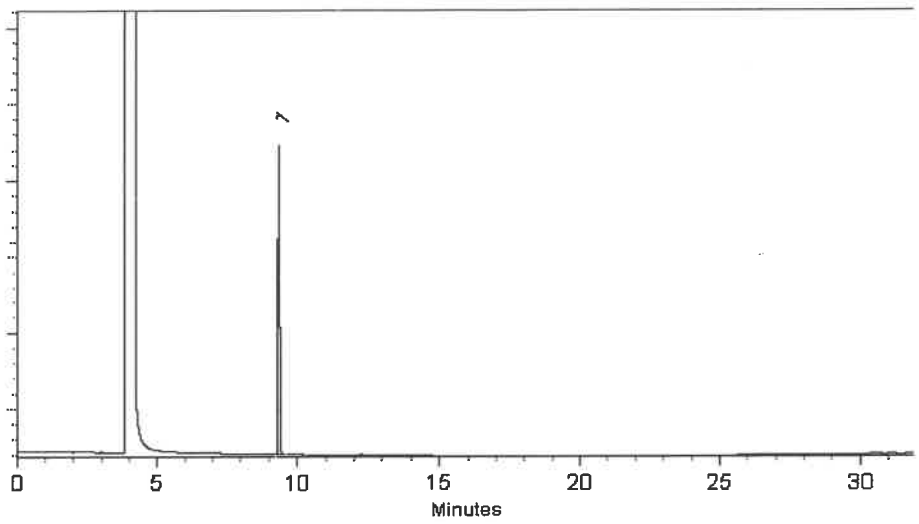
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

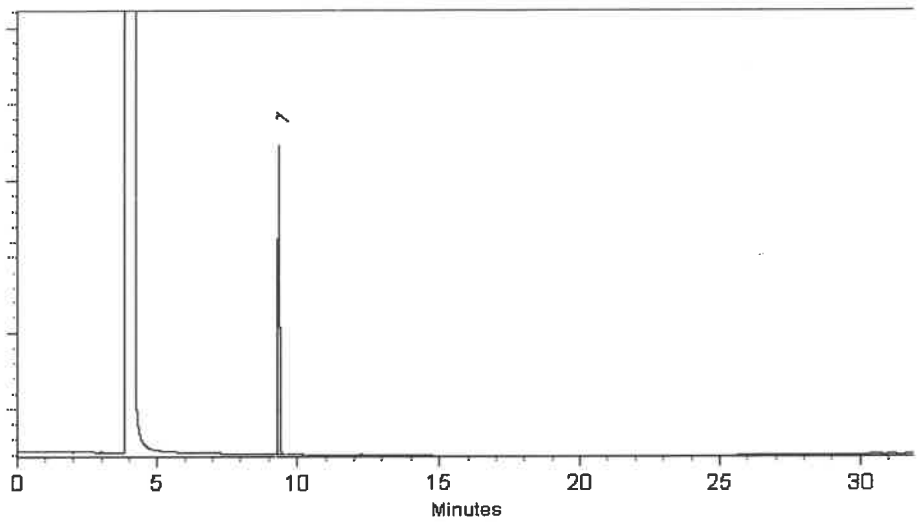
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to V14756

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

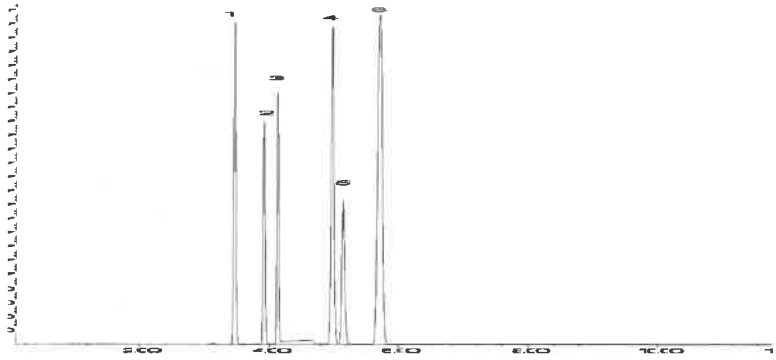
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to V14756

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

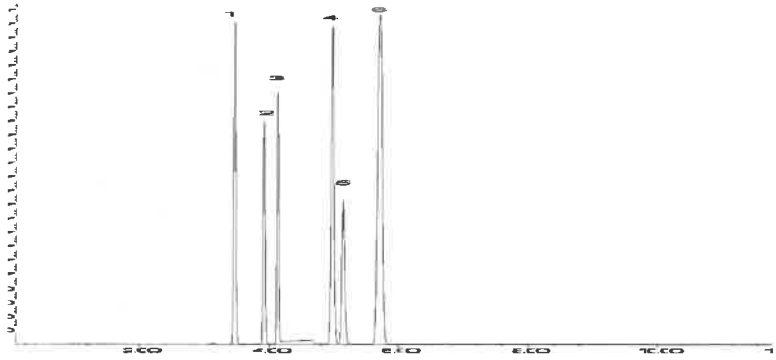
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to V14756

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

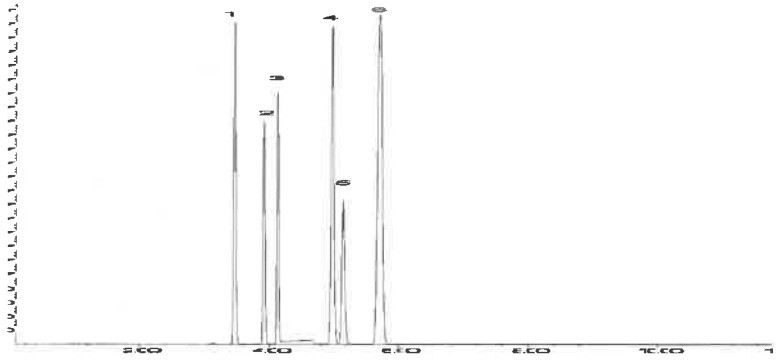
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to V14756

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

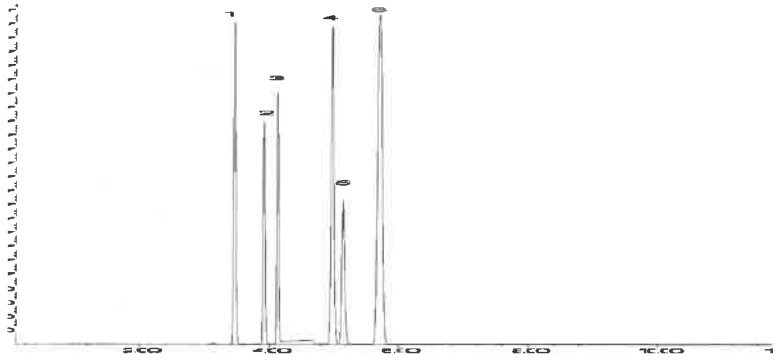
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

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J14842 to 14846

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

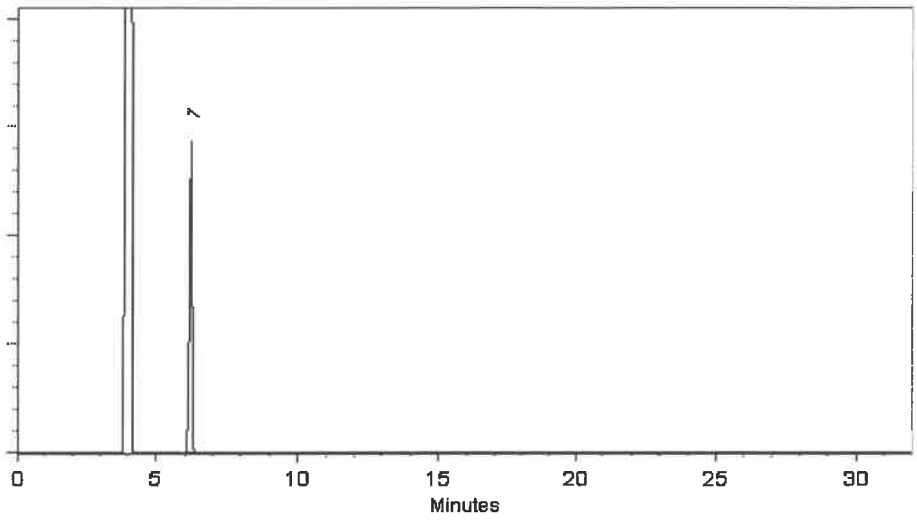
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- 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:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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:

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ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

J14842 to 14846

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. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

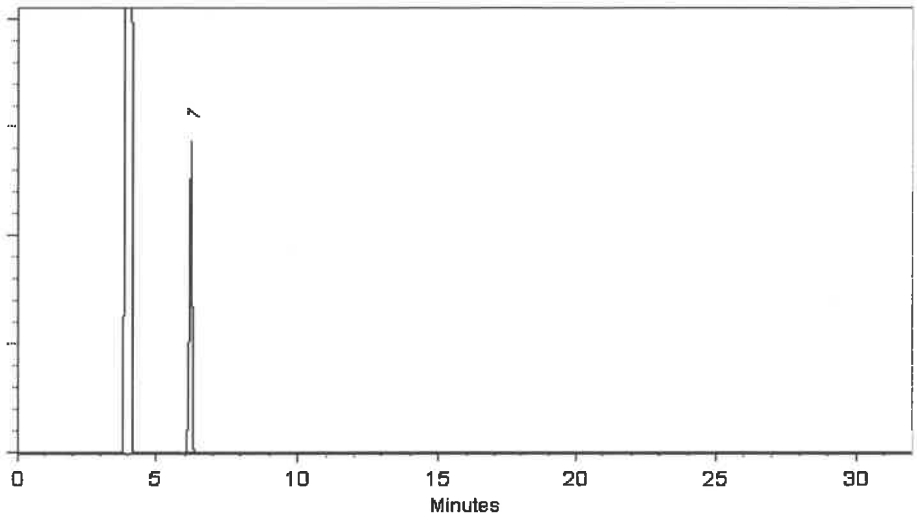
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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Verify Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

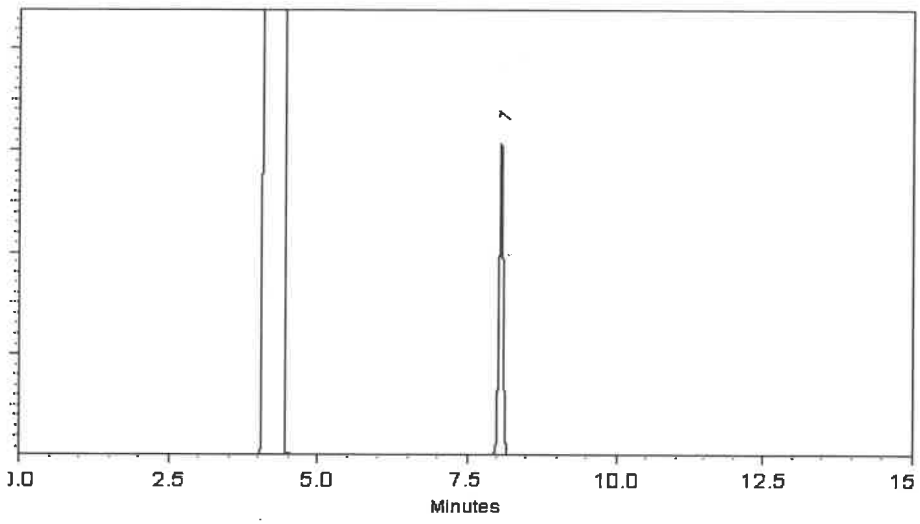
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- 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:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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:

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Verify Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

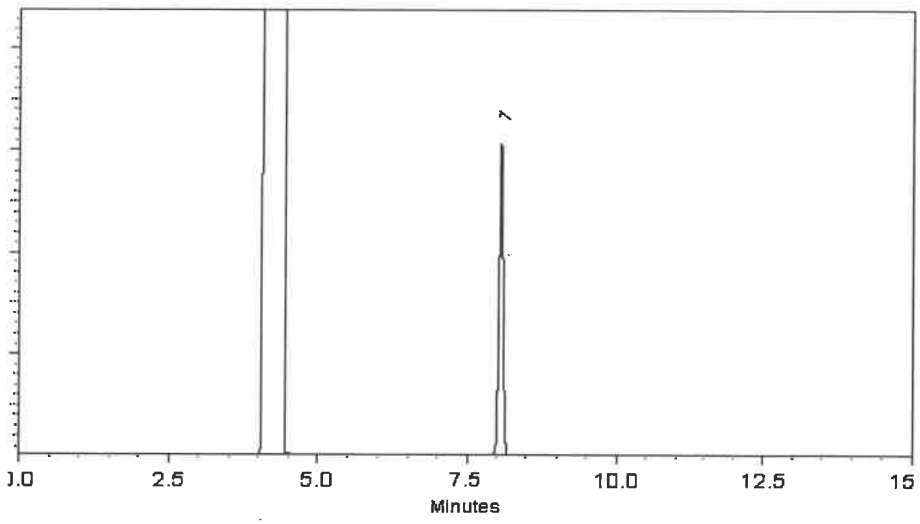
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Zoey Rec 01/08/21

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CERTIFIED REFERENCE MATERIAL

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic

VI4803 - VI4822

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. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

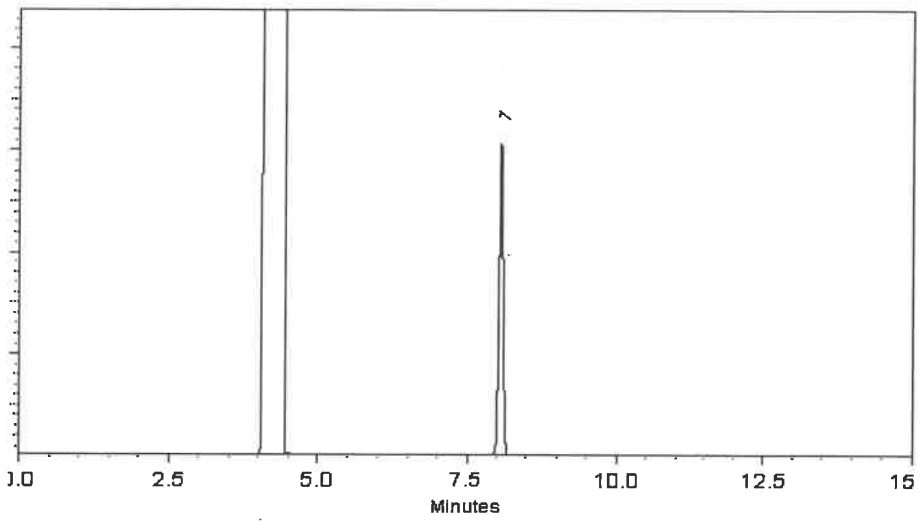
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoey Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

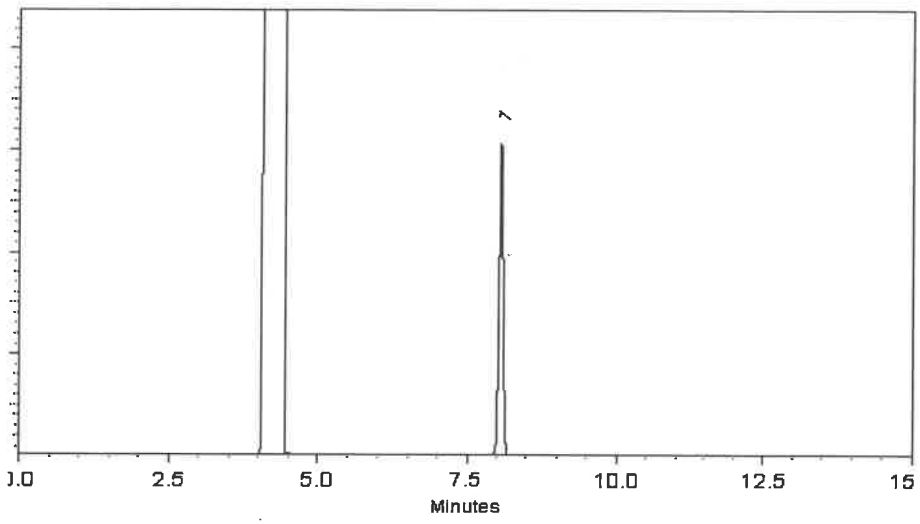
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial

CERTIFIED REFERENCE MATERIAL

Lee 03/31/25

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Lee 05119125

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
20 Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

Lee 05119125

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15064 to V15068

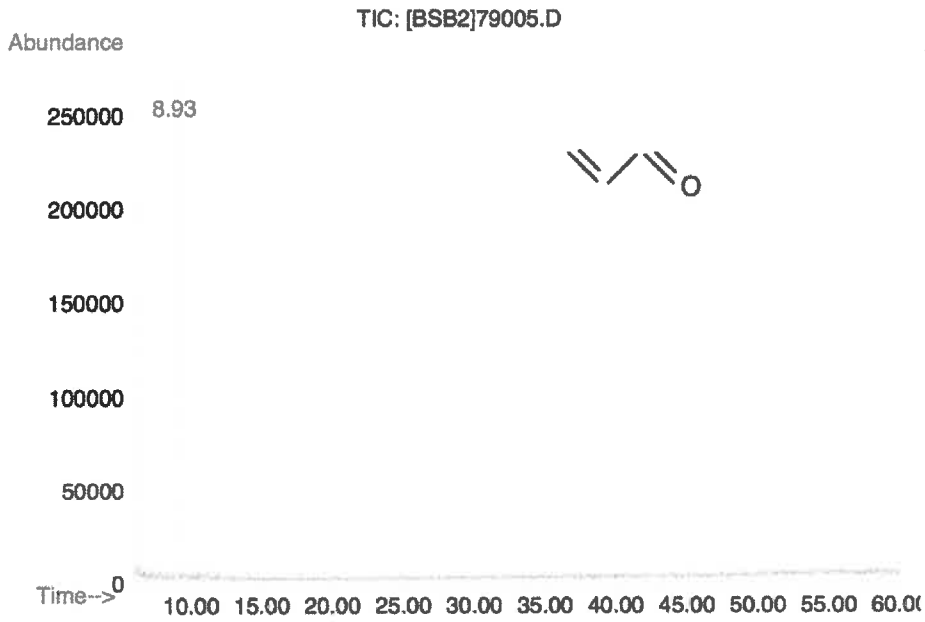
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

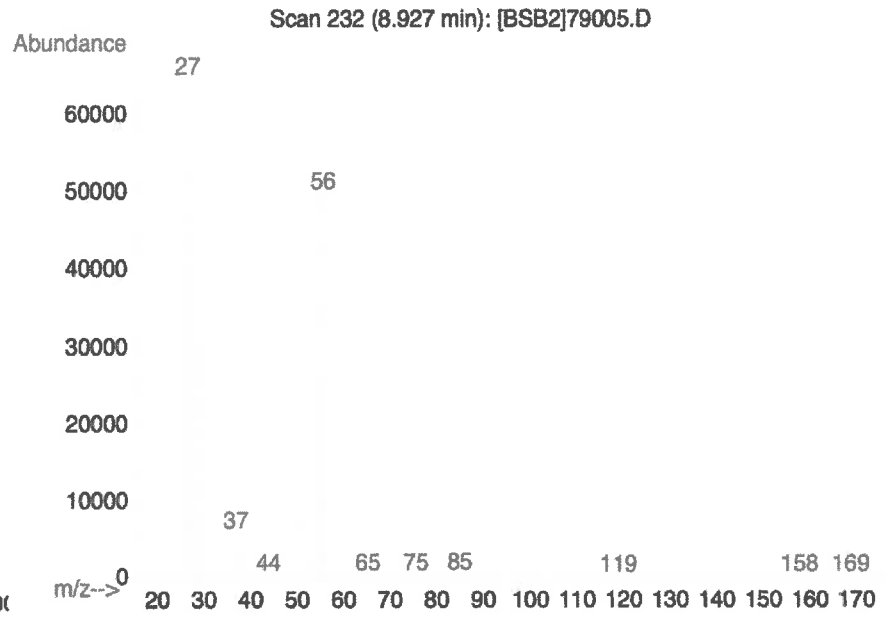
Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By: Anthony Mahoney	091525 DATE
Reviewed By: Pedro L. Rentas	091525 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

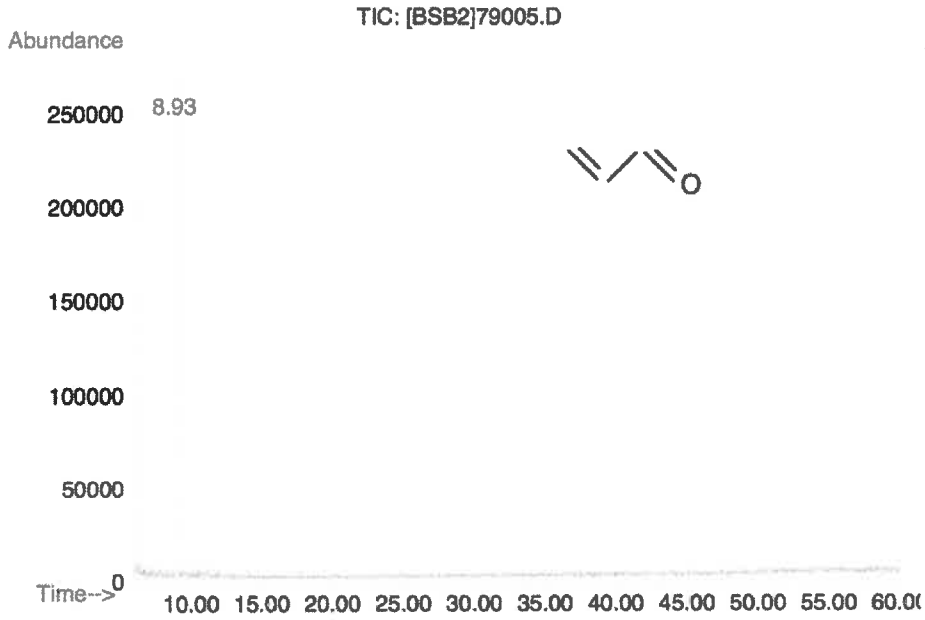
V15064 to V15068

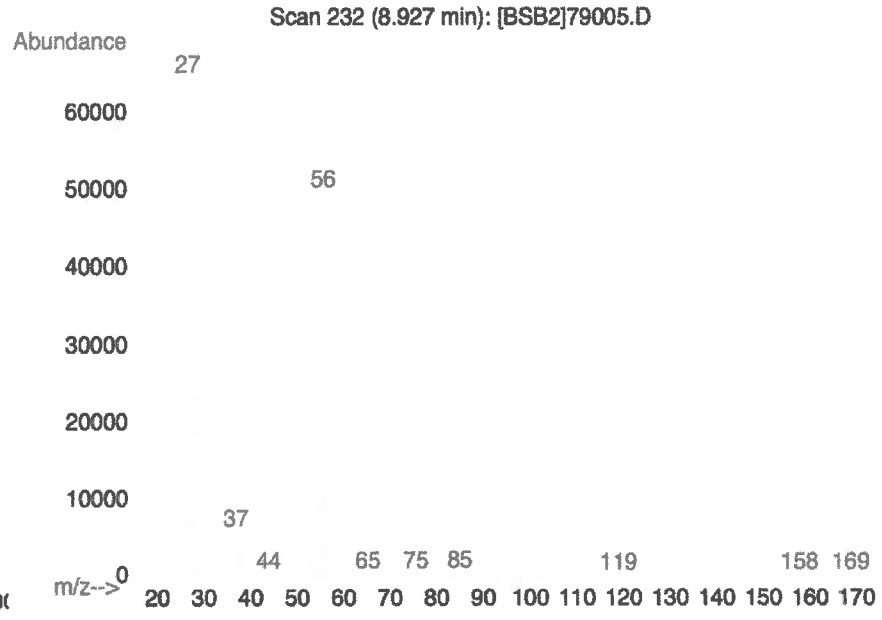
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	091525
Formulated By: Anthony Mahoney	DATE
	091525
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

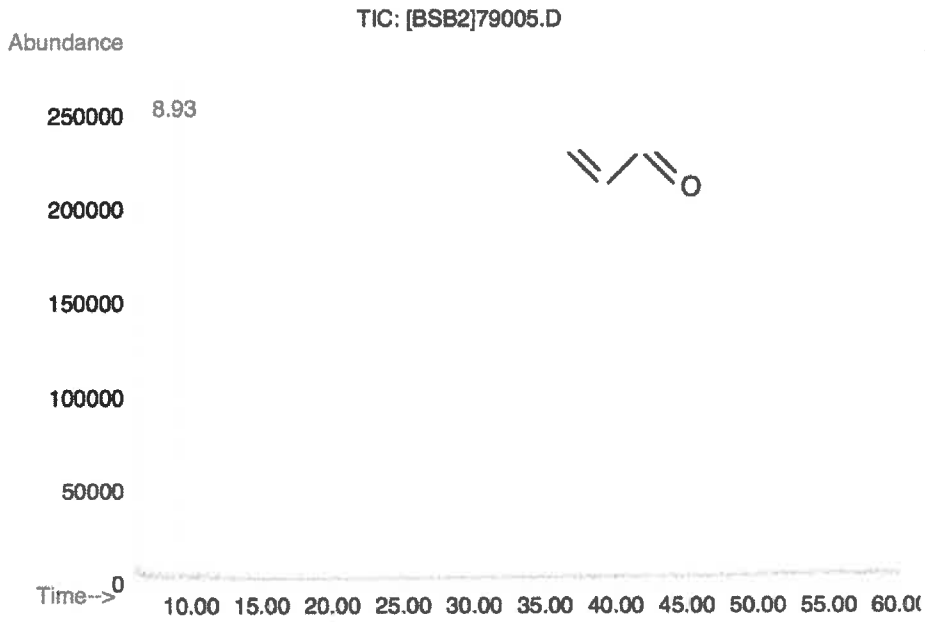
V15064 to V15068

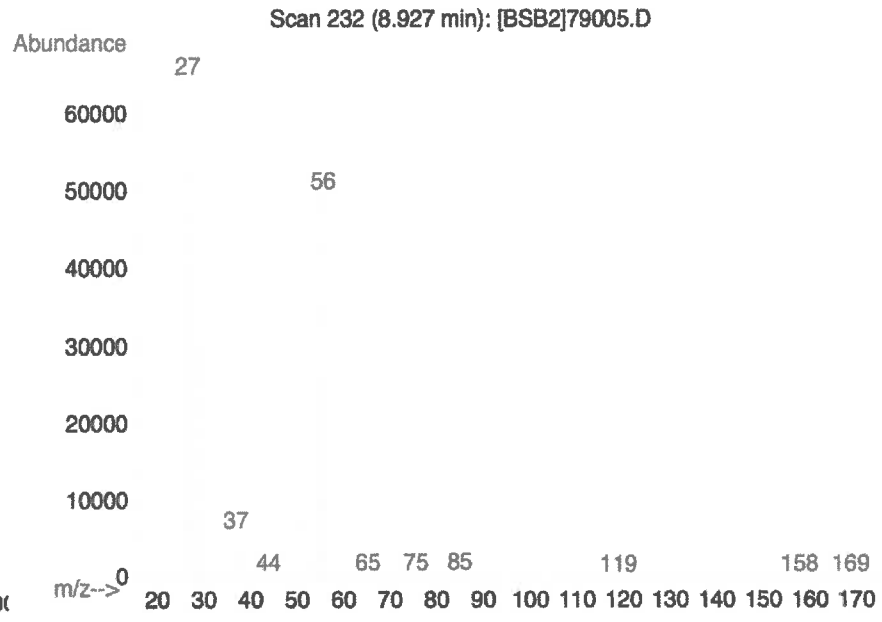
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	091525
Formulated By: Anthony Mahoney	DATE
	091525
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

SHIPPING DOCUMENTS

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ALLIANCE PROJECT NO. Q3095
QUOTE NO.
COC Number 2045022 Q3097

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.Vivadon@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10562
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other _____
❑ EDD FORMAT _____

ANALYSIS

1: VOCs 8260
2: 1,4 dioxane 8270SIM
3.
4
5
6
7
8
9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	F								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	MW3051 - 20250908	GW		X	9/8	1505	3	2	1								
2.	MW179D - 20250908	GW		X	9/8	1538	3	2	1								
3.	MW201D - 20250908	GW		X	9/8	1600	3	2	1								
4.	MW179D1 - 20250908	GW		X	9/8	1630	3	2	1								
5.	MW203D2 - 20250909	GW		X	9/9	1020	~~6~~ 9	~~6~~	3								MS/MSD
6.	MW203D1 - 20250909	GW		X	9/9	1030	3	2	1								
7.	MW179D2 - 20250909	GW		X		1012	3	2	1								
8.	MW201D1 - 20250909	GW		X		1045	3	2	1								
9.	RE122D1 - 20250909	GW		X		1300	3	2	1								
10.	MW202D - 20250909	GW		X	↓	1112	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mona Acinck	09/12/25 1320	1. 9-12-25 1320
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720 9-12-25	RECEIVED BY:
3.		3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 3.0 °C
Comments:

Page 1 of 6

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

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QUOTE NO. Q3097
COC Number 2045023

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.Vivadon@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10562
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: VOCs 8260 2: 1,4 dioxane 8270SIM 3. 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	F								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	MW178I1-20250909	GW		X	9/9	1300	3	2	1								
2.	RE123D1-20250909	GW		X	9/9	1340	3	2	1								
3.	RE123D3-20250909	GW		X	9/9	1355	3	2	1								
4.	MW305D-20250909	GW		X	9/9	1155	3	2	1								
5.	DUP01-20250909	GW		X	9/9	1235	3	2	1								
6.	RE126D2-20250909	GW		X	9/9	1442	3	2	1								
7.	RE126D3-20250909	GW		X	9/9	1540	3	2	1								
8.	MW178S-20250910	GW		X	9/10	0947 0948 MS	3	2	1								
9.	RE126D1-20250910	GW		X	9/10	1010	3	2	1								
10.	MW202D1-20250910	GW		X	9/10	1010	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Nora Acrete	9/12/25 1320	1.	9-12-25 1320
2.		2.	
3.	9/12/25 1720	3.	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.9 °C
Comments:

Page 2 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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QUOTE NO. Q3097
COC Number 2045024

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.vivadon@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: VOCs 8260 2: 1,4 dioxane 8270 SIM 3: 4: 5: 6: 7: 8: 9:

PRESERVATIVES

A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

COMMENTS ← Specify Preservatives

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	A 1	F 2	3	4	5	6	7	8	9	COMMENTS
1.	RE104D2-20250910	GW		X	9/10	1045	3	2	1								
2.	MW178I-20250910	GW		X	9/10	1052	3	2	1								
3.	DUP02-20250910	GW		X	9/10	1315	3	2	1								
4.	DUP03-20250910	GW		X	9/10	1035	3	2	1								
5.	~~RE-H~~ MA RE117D1-20250910	GW		X	9/10	1300	3	2	1								
6.	RE104D3-20250910	GW		X	9/10	1305	3	2	1								
7.	RE122D2-20250910	GW		X	9/10	1315	3	2	1								
8.	RE104D1-20250910	GW		X	9/10	1115	3	2	1								
9.	TT180D-20250911	GW		X	9/11	0940	3	2	1								
10.	RE122D3-20250911	GW		X	9/11	1010	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mona Achek	9/12/25 1320	1. 9-12-25 1320
2.		2.
3.	9-12-25 1720	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1 °C
Comments:

Page 3 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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QUOTE NO. Q3097
COC Number 2045026

CLIENT INFORMATION (REPORT TO BE SENT TO:)
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadou
PHONE: FAX:

CLIENT PROJECT INFORMATION
PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivadou
e-mail: Eleanor.Vivadou@arcom.com
PHONE: FAX:

CLIENT BILLING INFORMATION
BILL TO: Eleanor Vivadou PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION
FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION
☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS
1: VOCs 8260 2: 1,4 dioxane 8270SIM 3: 4: 5: 6: 7: 8: 9:

PRESERVATIVES
A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	F								← Specify Preservatives
1.	RE103D2-20250911	GW		X	9/11	0957	9	6	3								ms/msd
2.	RE125D1-20250911	GW		X	9/11	1055	3	2	1								
3.	RE125D3-20250911	GW		X	9/11	1125	3	2	1								
4.	RE103D3-20250911	GW		X	9/11	1112	3	2	1								
5.	RE108D2-20250911	GW		X	9/11	1155 MK	3	2	1								
6.	RE125D2-20250911	GW		X	9/11	1245	3	2	1								
7.	RE108D1-20250911	GW		X	9/11	1255	3	2	1								
8.	RE120D3-20250911	GW		X	9/11	1420	3	2	1								
9.	RE105D1-20250911	GW		X	9/11	1535	3	2	1								
10.	DUP04-20250911	GW		X	9/11	1635	3	2	1								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mano Achek	09/12/25 1320	1. 9.12.25 1320
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1720	RECEIVED BY:
3.	9.12.25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.0 °C
Comments:

Page 4 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045025

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivaldo
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NMBP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage, NY
PROJECT MANAGER: Eleanor Vivaldo
e-mail: eleanor.vivaldo@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivaldo PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1: VOCs 8260
2: 1,4 dioxane 8270SIM
3. 4. 5. 6. 7. 8. 9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2 (F)	3	4	5	6	7	8	9	COMMENTS
1.	DUP05-20250911	GW		X	9/11	1105	3	2	1								
2.	RE105D2-20250911	GW		X	9/11	1625	3	2	1								
3.	RE117D2-20250911	GW		X	9/11	1570	3	2	1								
4.	TB01-20250911	Aq			9/11	N/A	2	2									QA/QC TBs
5.	TB02-20250911	Aq			9/11	N/A	2	2									QA/QC TBs
6.	TB03-20250911	Aq			9/11	N/A	2	2									QA/QC TBs
7.	TB04-20250911	Aq			9/11	N/A	2	2									QA/QC TBs
8.	TB05-20250912	Aq			9/12	N/A	2	2									
9.	RE120D1-20250912	GW		X	9/12	0952	3	2	1								
10.	DUP06-20250912	GW		X	9/12	1140	3	2	1								

PRESERVATIVES: A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Mona Achek	9/12/25 1320	1. 9-12-25 1320
2.		2.
3.	9-12-25 1720	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments:

Page 5 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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ALLIANCE PROJECT NO. Q3095
QUOTE NO. Q3097
COC Number 2045027

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT NO.: 60731872 LOCATION: Bethpage
PROJECT MANAGER: Eleanor Vivadon
e-mail: eleanor.vivadon@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor Vivadon PO#:
ADDRESS: 27 Ellis Place
CITY Ossining STATE: NY ZIP: 10562
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: VOCs 8260
2: 1,4 dioxane 8270 SIM
3.
4
5
6
7
8
9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	F								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	RE120D2-20250912	GW		X	9/12	~~0954~~ 0955	3	2	1								
2.	RE134D1-20250912	GW		X	9/12	0955	3	2	1								
3.	RE134D4-20250912	GW		X	9/12	1010	3	2	1								
4.	RE134D2-20250912	GW		X	9/12	0950	3	2	1								
5.	RE134D3-20250912	GW		X	9/12	1030	3	2	1								
6.	EB01-20250912	~~GW~~ AQ		X	9/12	0822	3	2	1								Equipment Blank
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Mario Acick	9/12-25 1320	1.	9.12.25 1320
2.		2.	
3.	9-12-25 1720	3.	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments:

Page 6 of 6

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 9/12/2025 1:28:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 9/12/2025 5:20:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3097-01	RE103D2-20250911	Water	09/11/2025	09:57					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-02	Q3097-01MS	Water	09/11/2025	09:57					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-03	Q3097-01MSD	Water	09/11/2025	09:57					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-04	RE125D1-20250911	Water	09/11/2025	10:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-05	RE125D3-20250911	Water	09/11/2025	11:25					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-06	RE103D3-20250911	Water	09/11/2025	11:12					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-07	RE108D2-20250911	Water	09/11/2025	11:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-08	RE125D2-20250911	Water	09/11/2025	12:45					

Alliance TECHNICAL GROUP
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Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-09	RE108D1-20250911	Water	09/11/2025	12:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-10	RE120D3-20250911	Water	09/11/2025	14:20					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-11	RE105D1-20250911	Water	09/11/2025	15:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-12	DUP04-20250911	Water	09/11/2025	16:35					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-13	DUP04-20250911 5	Water	09/11/2025	11:05					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-14	RE105D2-20250911	Water	09/11/2025	16:25					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-15	RE117D2-20250911	Water	09/11/2025	15:20					
					VOCMS Group1		8260-Low	10 Bus. Days	

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Client Contact : Eleanor Vivadou
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Invoice Contact : Eleanor Vivadou

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Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 9/12/2025 5:20:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3097-16	TB03-20250911	Water	09/11/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-17	TB04-20250911	Water	09/11/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-18	TB05-20250912	Water	09/12/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-19	RE120D1-20250912	Water	09/12/2025	09:52					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-20	DUP06-20250912	Water	09/12/2025	11:40					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-21	RE120D2-20250912	Water	09/12/2025	09:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-22	RE~~103~~134D1-20250912	Water	09/12/2025	09:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3097-23	RE134D4-20250912	Water	09/12/2025	10:10					

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3097 AECO15
Client Name : AECOM Technical Services
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Services
Invoice Contact : Eleanor Vivadou

Order Date : 9/12/2025 1:28:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 9/12/2025 5:20:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff : 9/15/2025 10:00:34 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-24	RE134D2-20250912	Water	09/12/2025	09:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-25	RE134D3-20250912	Water	09/12/2025	10:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3097-26	EB01-20250~~911~~ 0912	Water	09/12/2025	08:22					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :
Date / Time : 9/15/25 1250

Received By :
Date / Time : 09/15/25 12:50 NSH Y
Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Sep 22 01:44:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.537	168	246348	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.745	114	451502	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	410953	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	201976	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.934	65	41500	10.583	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 21.160%#				
35) Dibromofluoromethane	5.367	113	31188	10.300	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 20.600%#				
50) Toluene-d8	8.628	98	103865	9.913	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 19.820%#				
62) 4-Bromofluorobenzene	11.061	95	47321	11.900	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 23.800%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.179	85	2201	0.863	ug/l		96
3) Chloromethane	1.300	50	3006	0.897	ug/l	#	82
4) Vinyl Chloride	1.386	62	2818	0.859	ug/l		95
5) Bromomethane	1.624	94	2304	1.107	ug/l		99
6) Chloroethane	1.697	64	2134	0.973	ug/l		95
7) Trichlorofluoromethane	1.898	101	4261	0.874	ug/l		88
8) Diethyl Ether	2.130	74	1831	0.919	ug/l		98
9) 1,1,2-Trichlorotrifluo...	2.337	101	2555	0.897	ug/l		93
10) Methyl Iodide	2.459	142	3509	0.790	ug/l	#	86
11) Tert butyl alcohol	2.934	59	1850	4.236	ug/l	#	72
12) 1,1-Dichloroethene	2.325	96	2594	0.886	ug/l	#	80
13) Acrolein	2.239	56	1440	3.578	ug/l	#	65
14) Allyl chloride	2.666	41	5885	0.974	ug/l		94
15) Acrylonitrile	3.062	53	6500	4.018	ug/l		97
16) Acetone	2.380	43	8444	4.953	ug/l		99
17) Carbon Disulfide	2.520	76	7662	0.956	ug/l	#	91
18) Methyl Acetate	2.703	43	3013	0.794	ug/l		98
19) Methyl tert-butyl Ether	3.111	73	9281	0.869	ug/l	#	89
20) Methylene Chloride	2.788	84	3540	0.981	ug/l		93
21) trans-1,2-Dichloroethene	3.099	96	2676	0.849	ug/l		95
22) Diisopropyl ether	3.751	45	9738	0.832	ug/l	#	87
23) Vinyl Acetate	3.715	43	37962	4.052	ug/l		97
24) 1,1-Dichloroethane	3.611	63	5372	0.863	ug/l		95
25) 2-Butanone	4.550	43	9105	4.281	ug/l	#	83
26) 2,2-Dichloropropane	4.477	77	4657	0.901	ug/l		77
27) cis-1,2-Dichloroethene	4.477	96	3440	0.891	ug/l		96
28) Bromochloromethane	4.879	49	2251	0.829	ug/l	#	93
29) Tetrahydrofuran	4.995	42	5210	4.072	ug/l		98
30) Chloroform	5.074	83	5093	0.810	ug/l		86
31) Cyclohexane	5.458	56	4668	0.901	ug/l		90
32) 1,1,1-Trichloroethane	5.373	97	4439	0.832	ug/l	#	47
36) 1,1-Dichloropropene	5.672	75	4373	0.988	ug/l	#	69
37) Ethyl Acetate	4.702	43	3873	0.818	ug/l	#	91
38) Carbon Tetrachloride	5.659	117	4349	0.905	ug/l		95
39) Methylcyclohexane	7.360	83	4428	0.882	ug/l		94
40) Benzene	6.025	78	12012	0.894	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Sep 22 01:44:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	2128	0.870	ug/l	#	63
42) 1,2-Dichloroethane	6.062	62	4634	0.906	ug/l		80
43) Isopropyl Acetate	6.318	43	6784	0.873	ug/l		94
44) Trichloroethene	7.110	130	2677	0.824	ug/l		78
45) 1,2-Dichloropropane	7.415	63	2945	0.856	ug/l		100
46) Dibromomethane	7.574	93	2240	0.895	ug/l		94
47) Bromodichloromethane	7.805	83	4167	0.806	ug/l	#	92
48) Methyl methacrylate	7.683	41	3355	0.867	ug/l	#	87
49) 1,4-Dioxane	7.653	88	404	10.329	ug/l	#	52
51) 4-Methyl-2-Pentanone	8.555	43	17596	4.085	ug/l		95
52) Toluene	8.708	92	7595	0.917	ug/l		92
53) t-1,3-Dichloropropene	8.964	75	4398	0.834	ug/l	#	82
54) cis-1,3-Dichloropropene	8.354	75	4635	0.823	ug/l	#	76
55) 1,1,2-Trichloroethane	9.134	97	2918	0.914	ug/l		95
56) Ethyl methacrylate	9.104	69	3679	0.734	ug/l	#	84
57) 1,3-Dichloropropane	9.293	76	4580	0.835	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	4222	9.665	ug/l		99
59) 2-Hexanone	9.415	43	12385	4.003	ug/l		98
60) Dibromochloromethane	9.506	129	2903	0.789	ug/l		87
61) 1,2-Dibromoethane	9.592	107	2596	0.798	ug/l		96
64) Tetrachloroethene	9.256	164	2457	0.917	ug/l		83
65) Chlorobenzene	10.061	112	8202	0.879	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.140	131	2684	0.833	ug/l	#	66
67) Ethyl Benzene	10.177	91	13360	0.829	ug/l		98
68) m/p-Xylenes	10.287	106	9922	1.655	ug/l		99
69) o-Xylene	10.622	106	4734	0.816	ug/l		94
70) Styrene	10.640	104	8377	0.824	ug/l		96
71) Bromoform	10.787	173	1816	0.755	ug/l	#	94
73) Isopropylbenzene	10.945	105	12618	0.822	ug/l		96
74) N-amyl acetate	10.829	43	5159	0.737	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.195	83	3900	0.839	ug/l		96
76) 1,2,3-Trichloropropane	11.225	75	4568	1.117	ug/l		80
77) Bromobenzene	11.183	156	3069	0.811	ug/l		98
78) n-propylbenzene	11.286	91	14866	0.819	ug/l		99
79) 2-Chlorotoluene	11.347	91	9195	0.827	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	9929	0.787	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.006	75	960	0.599	ug/l	#	95
82) 4-Chlorotoluene	11.439	91	11123	0.847	ug/l		95
83) tert-Butylbenzene	11.695	119	11311	0.876	ug/l		97
84) 1,2,4-Trimethylbenzene	11.731	105	10187	0.796	ug/l		100
85) sec-Butylbenzene	11.872	105	12561	0.819	ug/l		99
86) p-Isopropyltoluene	11.994	119	10744	0.827	ug/l		92
87) 1,3-Dichlorobenzene	11.951	146	5907	0.841	ug/l		98
88) 1,4-Dichlorobenzene	11.951	146	5907	0.819	ug/l		98
89) n-Butylbenzene	12.317	91	9811	0.816	ug/l		97
90) Hexachloroethane	12.524	117	1752	0.768	ug/l		97
91) 1,2-Dichlorobenzene	12.317	146	5491	0.820	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	698	0.742	ug/l		93
93) 1,2,4-Trichlorobenzene	13.567	180	3358	0.772	ug/l		95
94) Hexachlorobutadiene	13.707	225	1378	0.933	ug/l		93
95) Naphthalene	13.756	128	10112	0.763	ug/l		98
96) 1,2,3-Trichlorobenzene	13.944	180	3043	0.752	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Sep 22 01:44:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

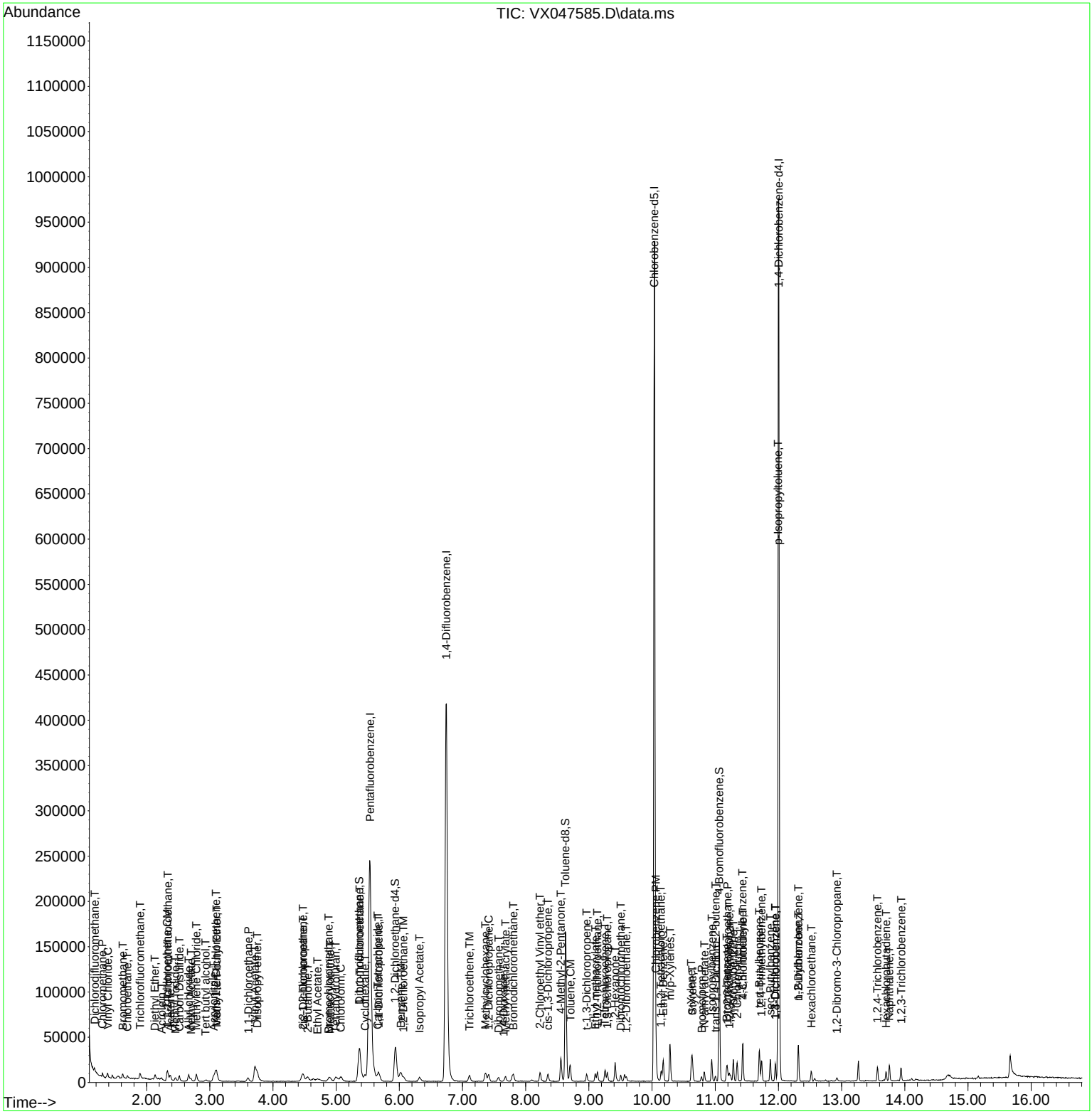
(#) = qualifier out of range (m) = manual integration (+) = signals summed

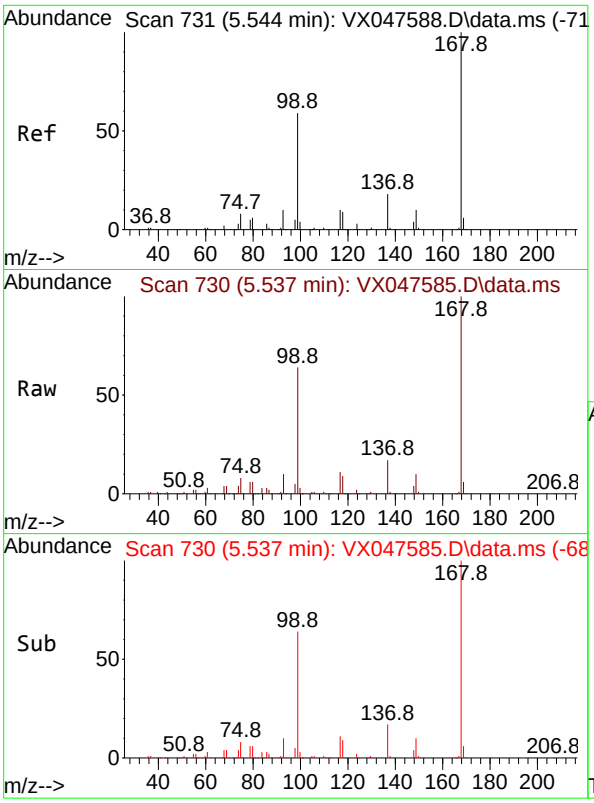
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Sep 22 01:44:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



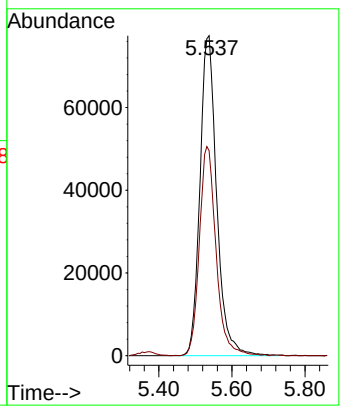


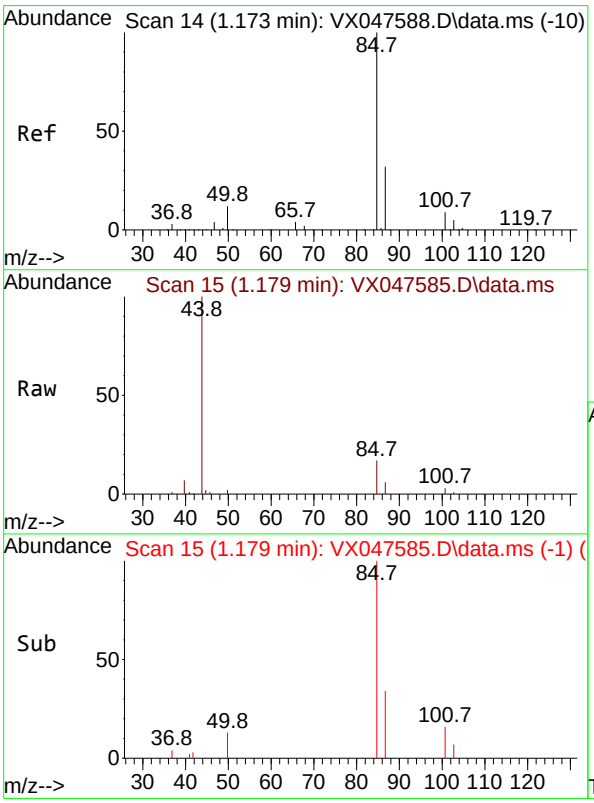
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 246348

Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2

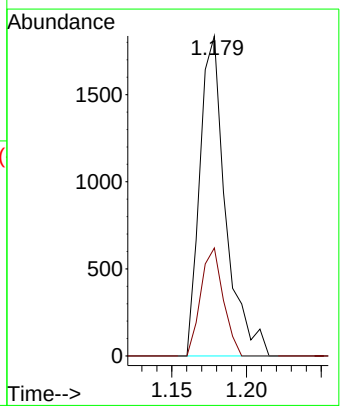


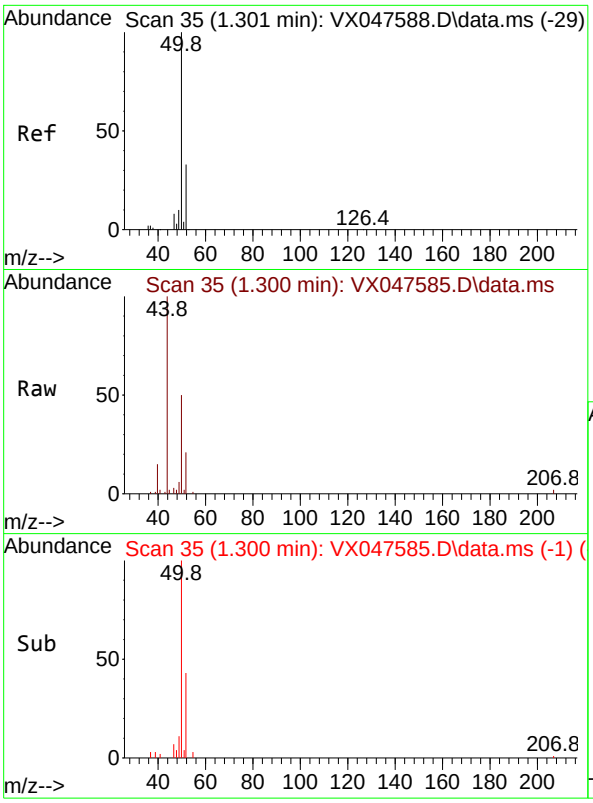


#2
Dichlorodifluoromethane
Concen: 0.863 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 85 Resp: 2201

Ion	Ratio	Lower	Upper
85	100		
87	33.8	15.8	47.3



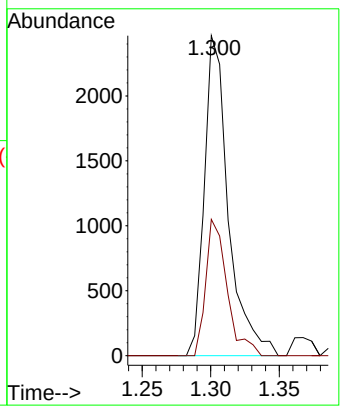


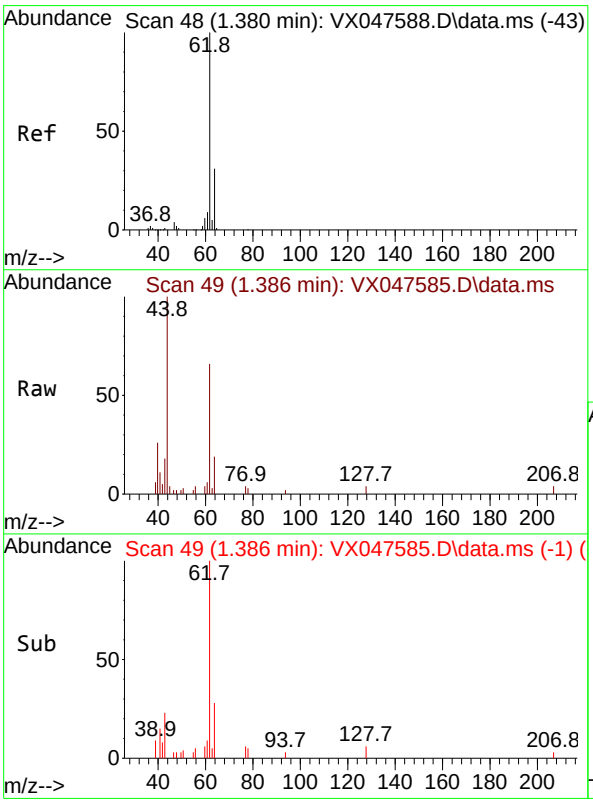
#3
Chloromethane
Concen: 0.897 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 3006

Ion	Ratio	Lower	Upper
50	100		
52	42.6	26.1	39.1#

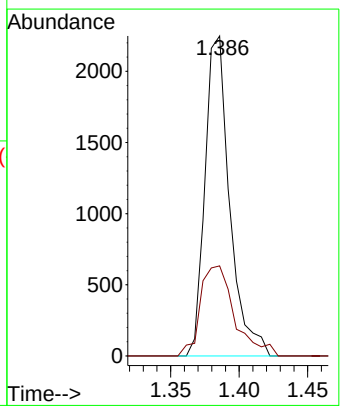


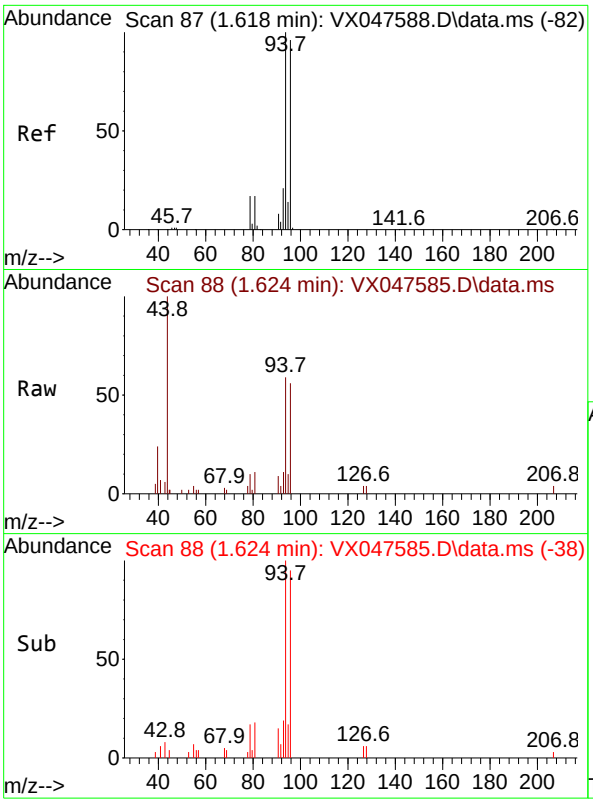


#4
Vinyl Chloride
Concen: 0.859 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 2818

Ion	Ratio	Lower	Upper
62	100		
64	28.2	24.9	37.3



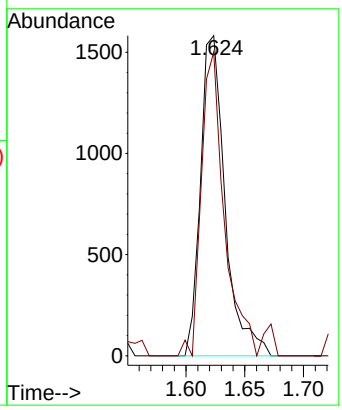


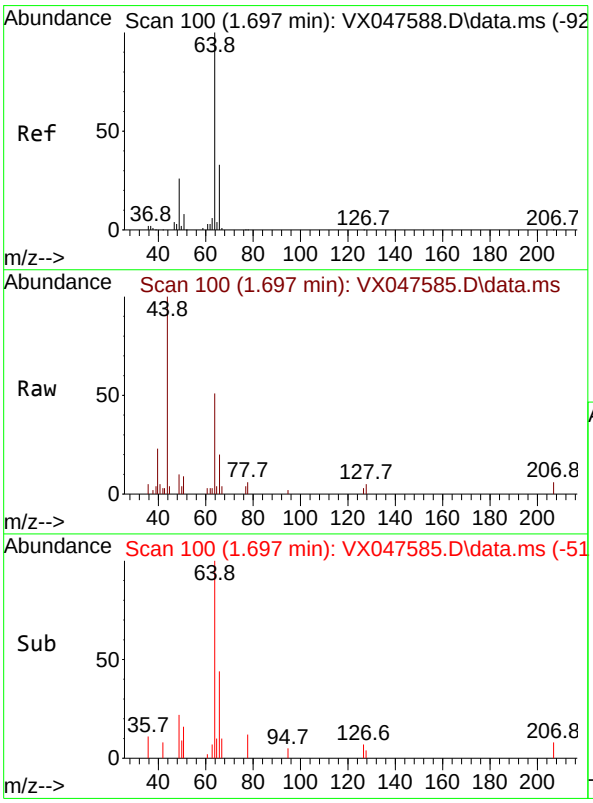
#5
Bromomethane
Concen: 1.107 ug/l
RT: 1.624 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 2304

Ion	Ratio	Lower	Upper
94	100		
96	94.9	76.6	115.0

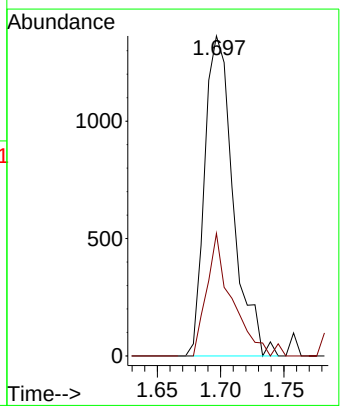


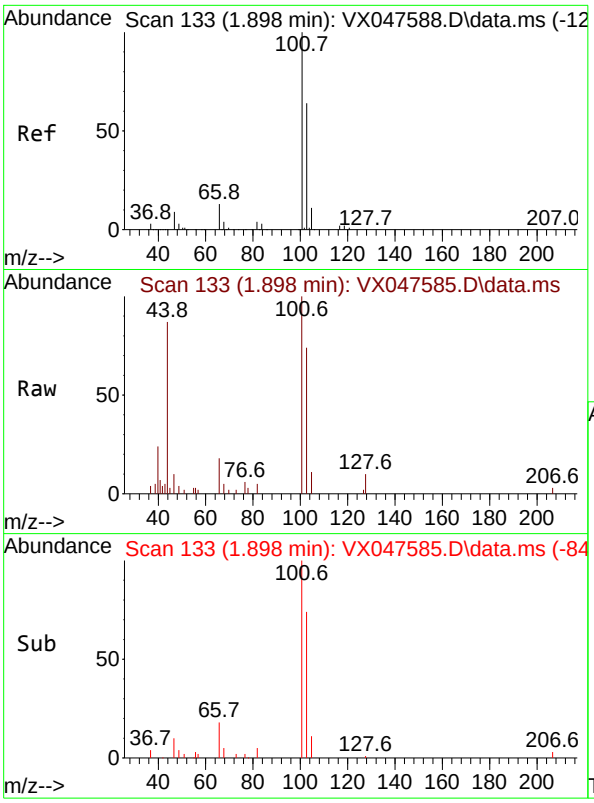


#6
Chloroethane
Concen: 0.973 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 64 Resp: 2134

Ion	Ratio	Lower	Upper
64	100		
66	35.4	26.1	39.1



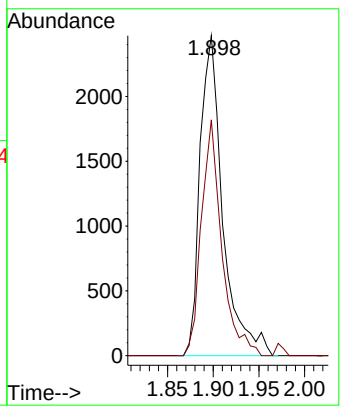


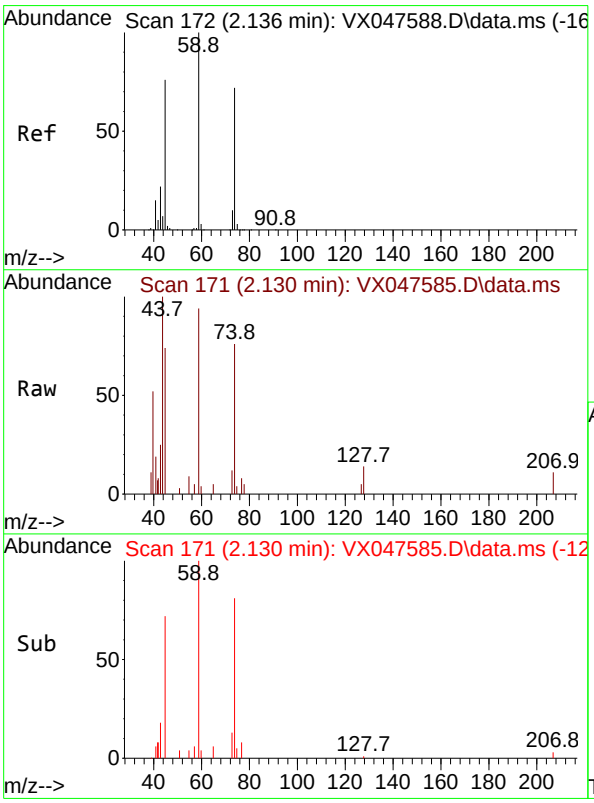
#7
Trichlorofluoromethane
Concen: 0.874 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 4261

Ion	Ratio	Lower	Upper
101	100		
103	73.7	51.4	77.2

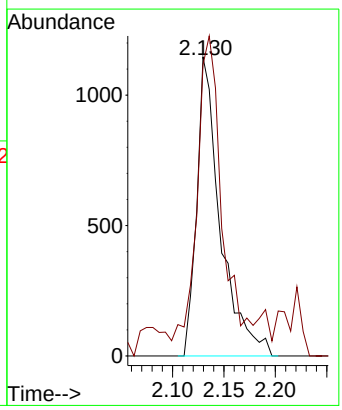


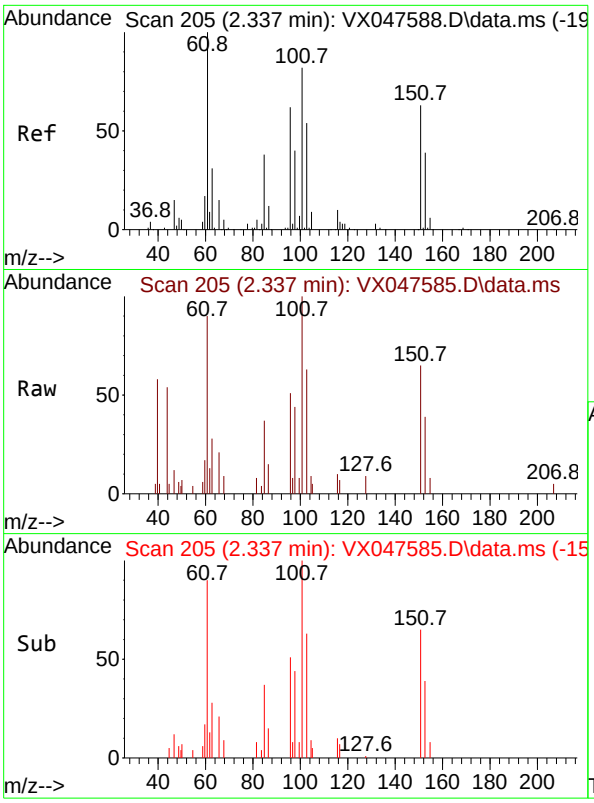


#8
Diethyl Ether
Concen: 0.919 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 74 Resp: 1831

Ion	Ratio	Lower	Upper
74	100		
45	102.2	52.3	156.8



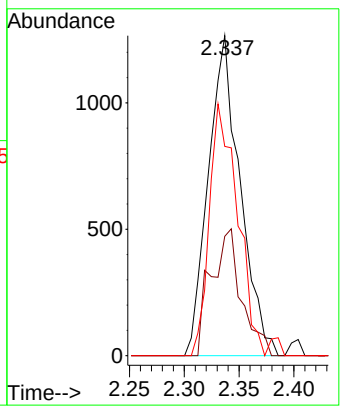


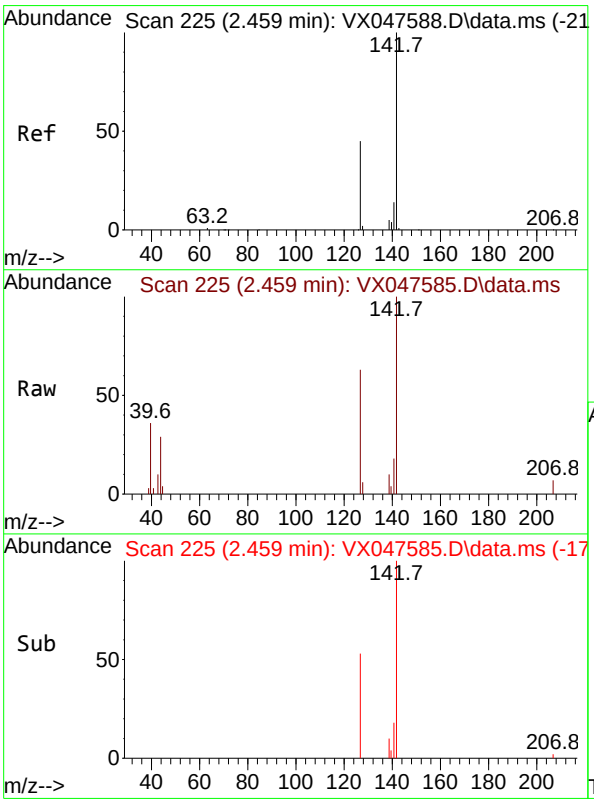
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.897 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 2555

Ion	Ratio	Lower	Upper
101	100		
85	37.8	35.5	53.3
151	69.9	59.4	89.0

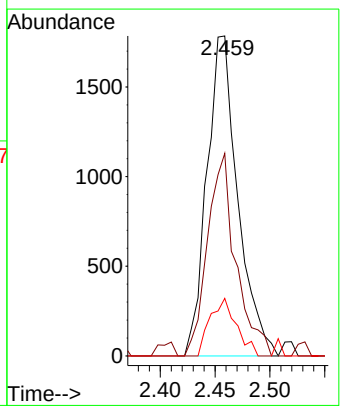


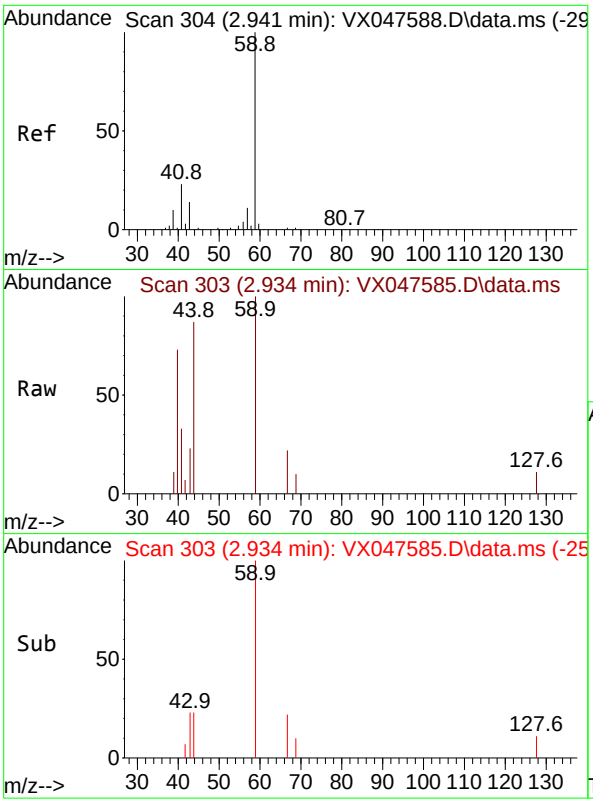


#10
Methyl Iodide
Concen: 0.790 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:142 Resp: 3509

Ion	Ratio	Lower	Upper
142	100		
127	57.7	37.2	55.8#
141	15.3	11.4	17.0



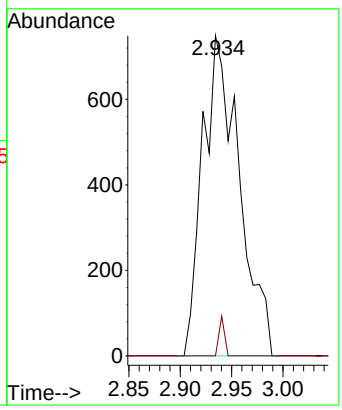


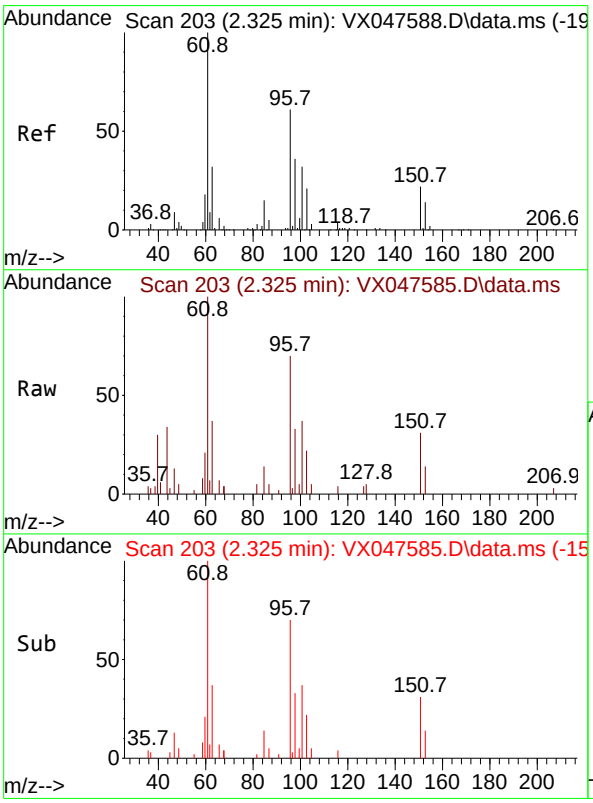
#11
Tert butyl alcohol
Concen: 4.236 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 1850

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#

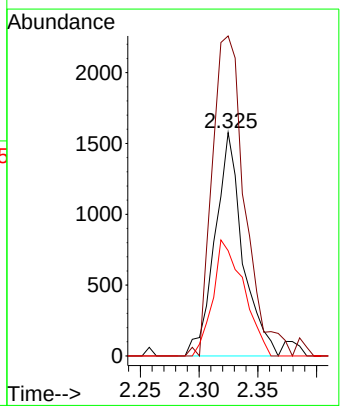


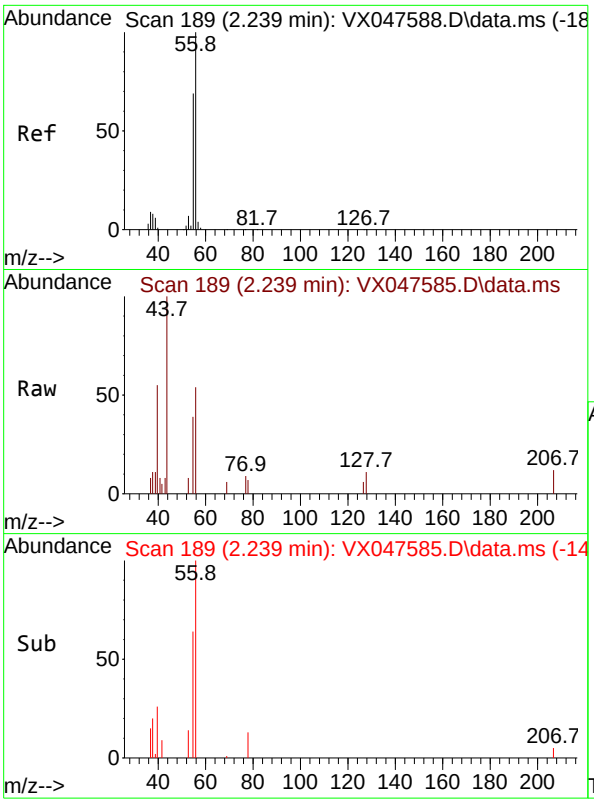


#12
1,1-Dichloroethene
Concen: 0.886 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 2594

Ion	Ratio	Lower	Upper
96	100		
61	137.3	131.0	196.6
98	45.2	47.7	71.5#



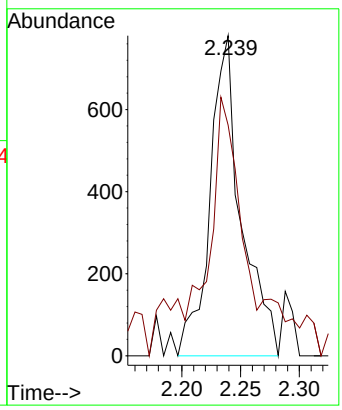


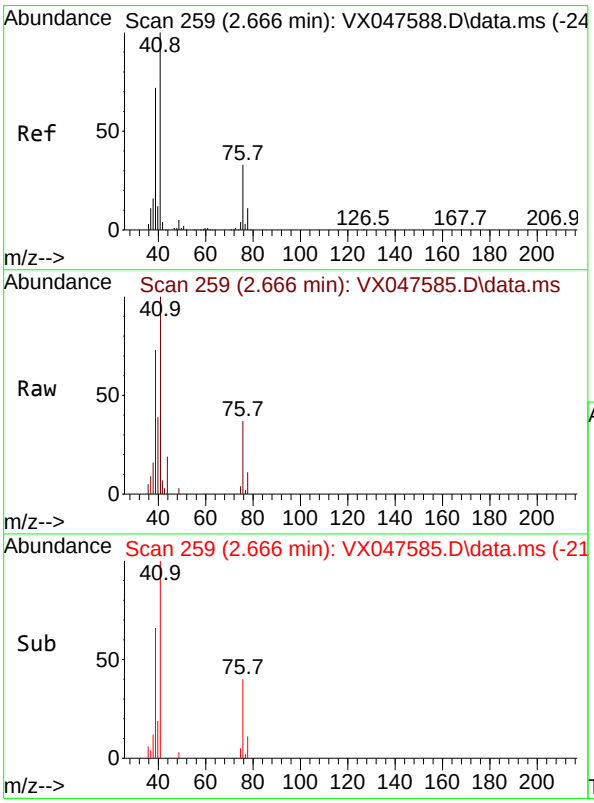
#13
Acrolein
Concen: 3.578 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 1440

Ion	Ratio	Lower	Upper
56	100		
55	100.3	57.2	85.8#

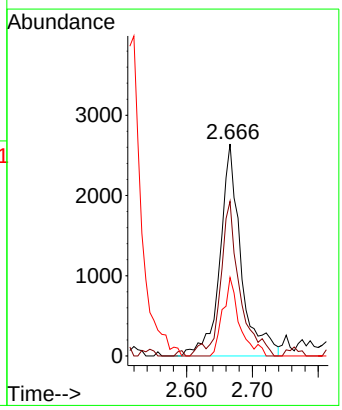


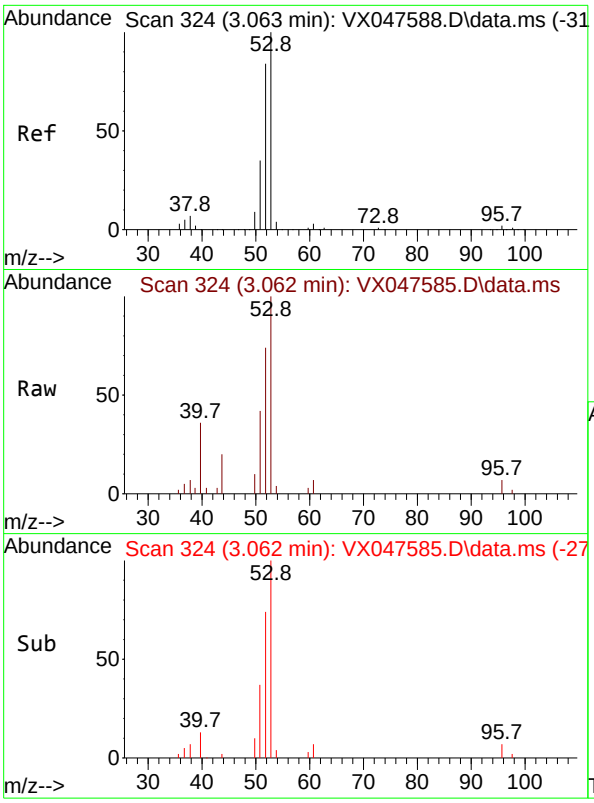


#14
Allyl chloride
Concen: 0.974 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 5885

Ion	Ratio	Lower	Upper
41	100		
39	63.3	54.7	82.1
76	29.3	25.7	38.5



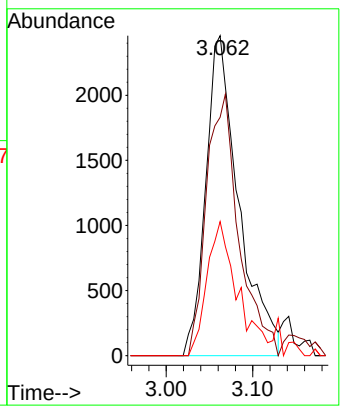


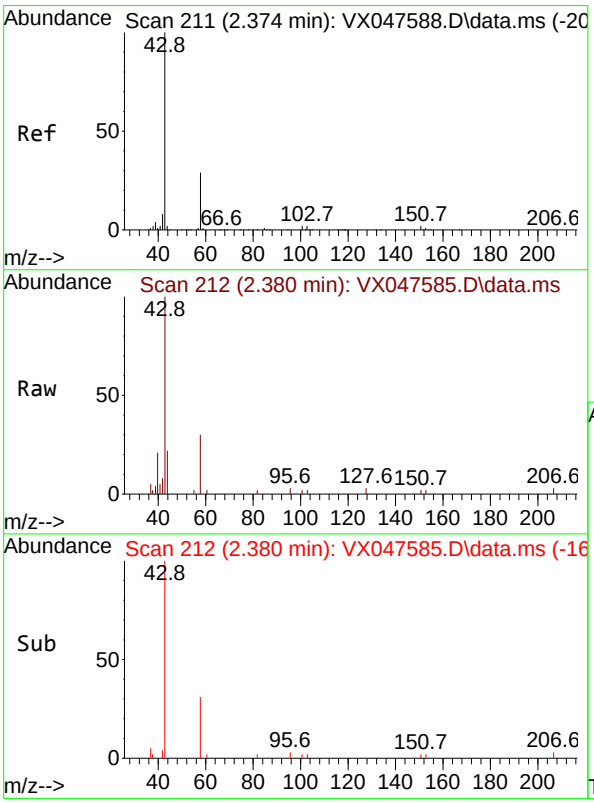
#15
Acrylonitrile
Concen: 4.018 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 6500

Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.4	99.6
51	38.7	29.5	44.3

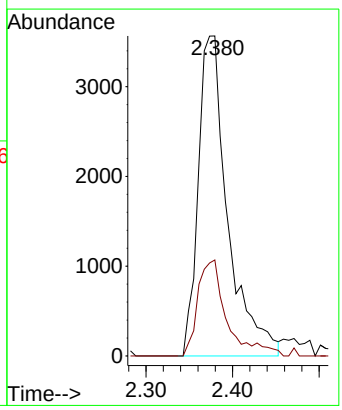


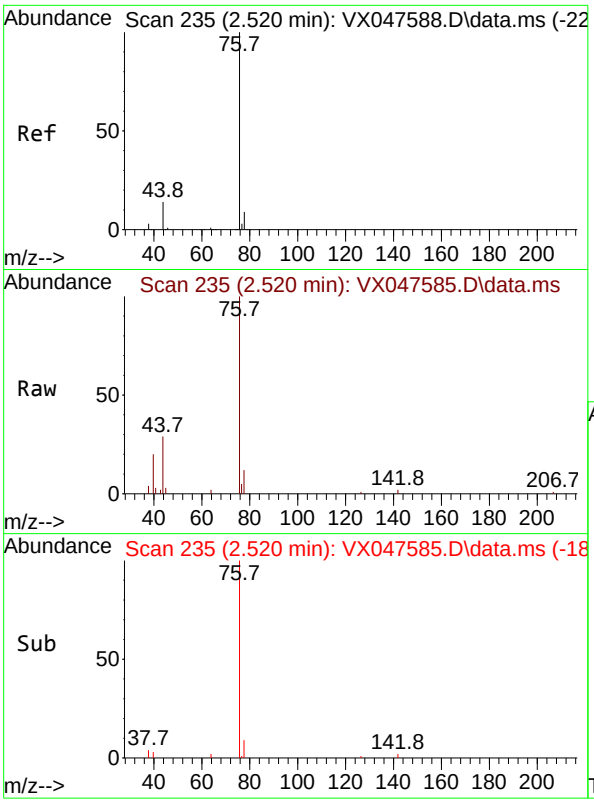


#16
Acetone
Concen: 4.953 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 8444

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0



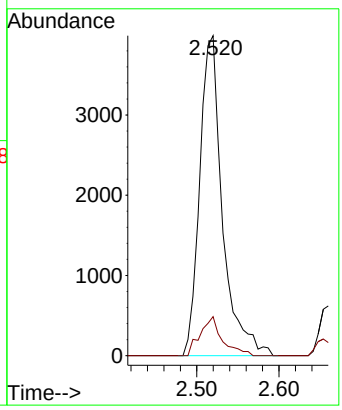


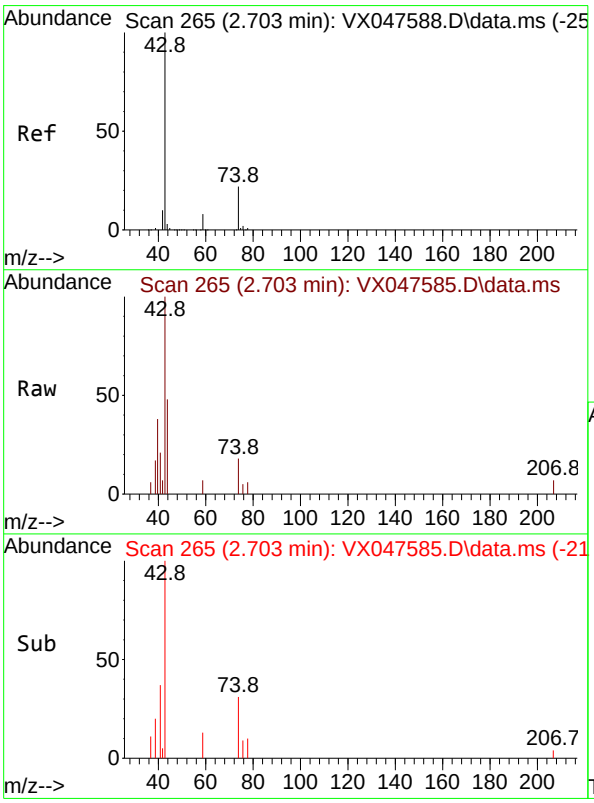
#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 7662

Ion	Ratio	Lower	Upper
76	100		
78	11.6	6.8	10.2#

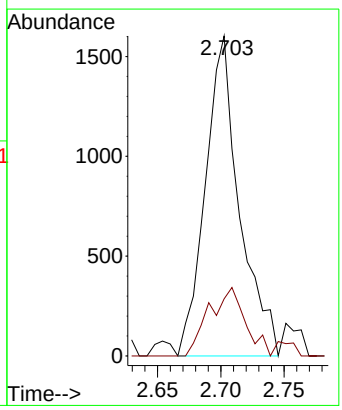


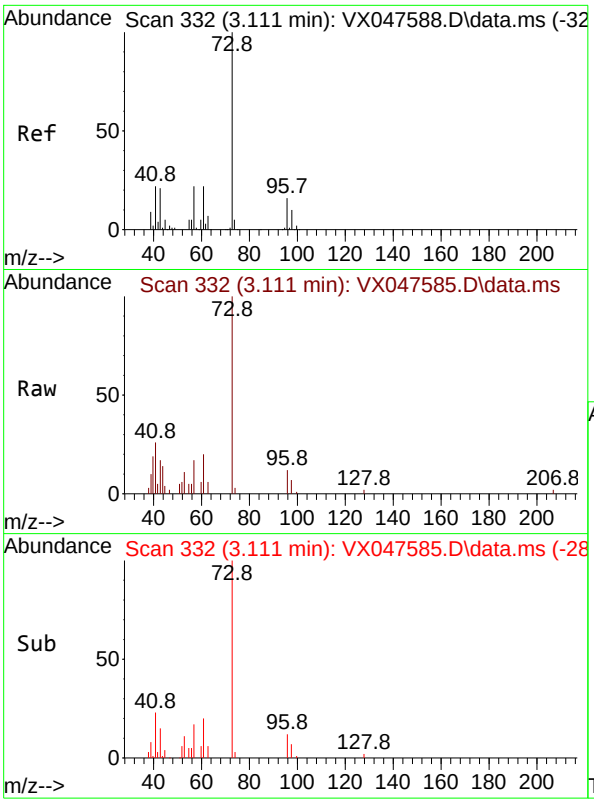


#18
Methyl Acetate
Concen: 0.794 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3013

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2



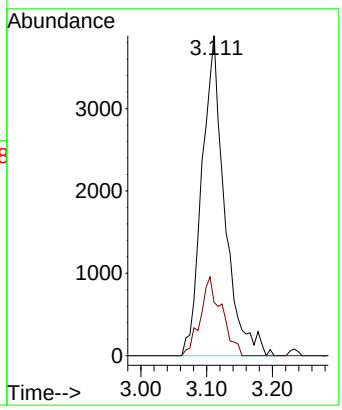


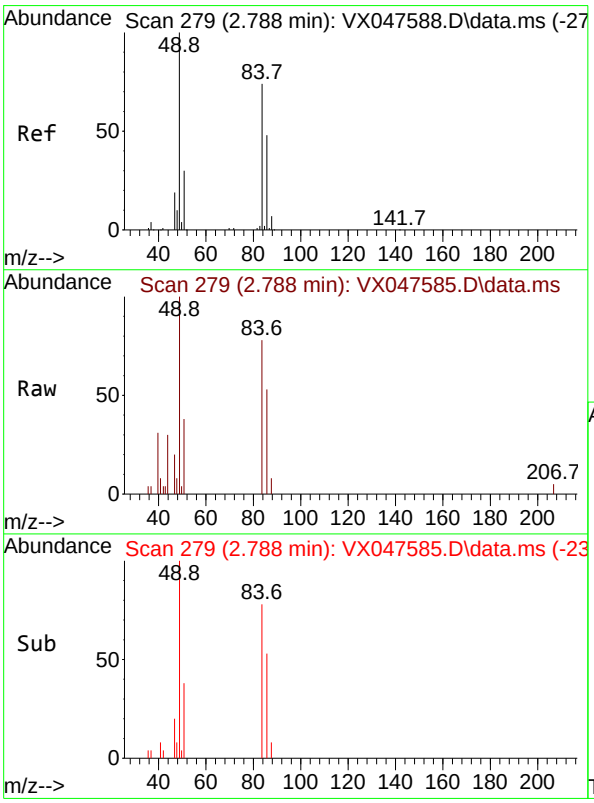
#19
Methyl tert-butyl Ether
Concen: 0.869 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 9281

Ion	Ratio	Lower	Upper
73	100		
57	16.7	17.4	26.2#

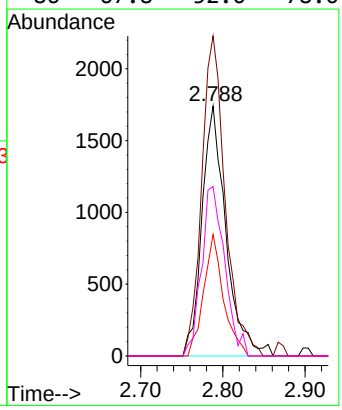


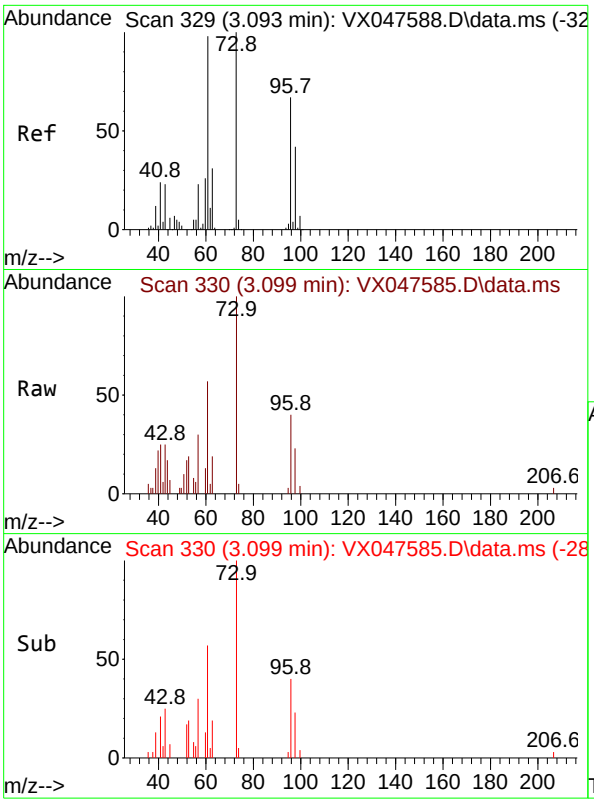


#20
Methylene Chloride
Concen: 0.981 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 84 Resp: 3540

Ion	Ratio	Lower	Upper
84	100		
49	128.0	108.6	162.8
51	48.6	32.6	48.8
86	67.8	52.0	78.0



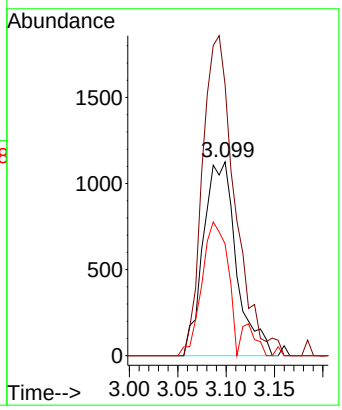


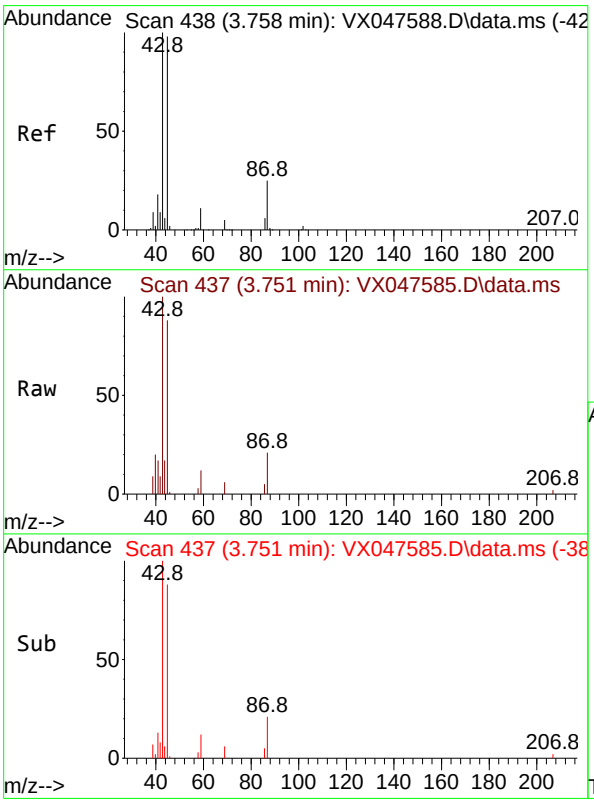
#21
trans-1,2-Dichloroethene
Concen: 0.849 ug/l
RT: 3.099 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2676

Ion	Ratio	Lower	Upper
96	100		
61	139.9	116.2	174.2
98	57.6	49.3	73.9

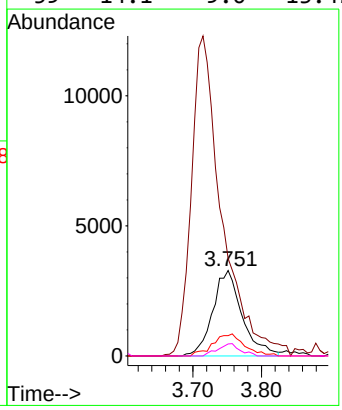


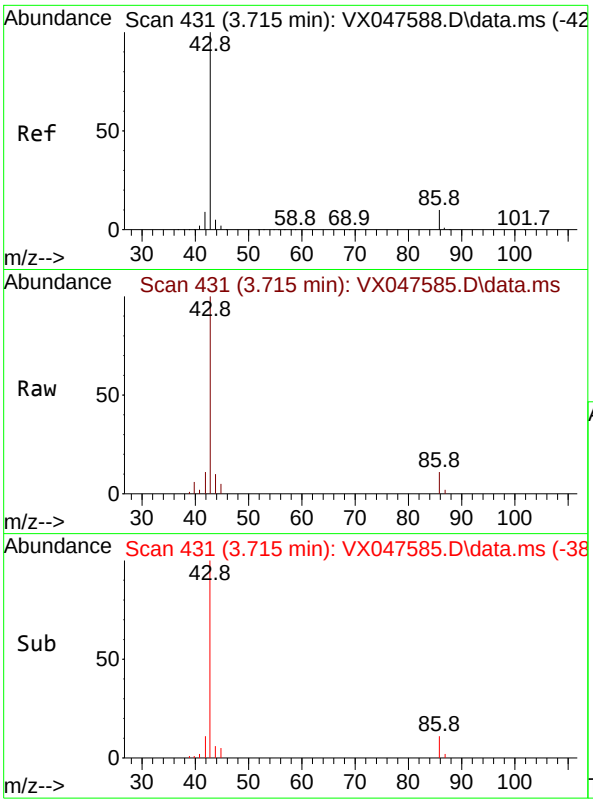


#22
Diisopropyl ether
Concen: 0.832 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 45 Resp: 9738

Ion	Ratio	Lower	Upper
45	100		
43	117.9	81.0	121.4
87	23.7	20.3	30.5
59	14.1	9.0	13.4#



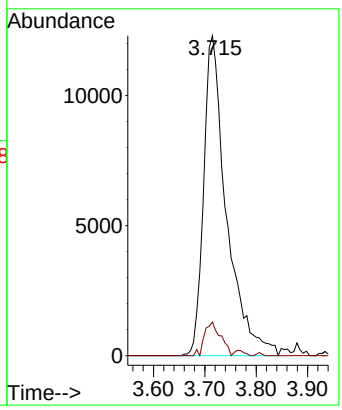


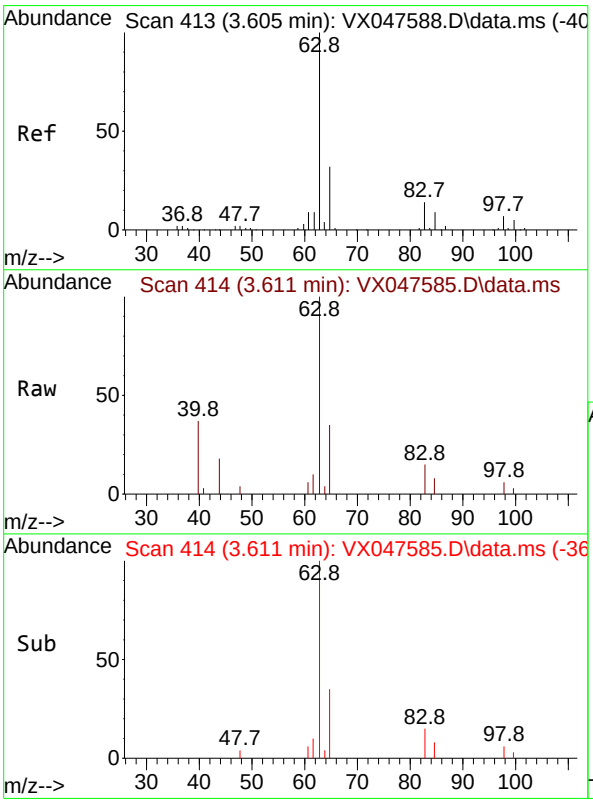
#23
Vinyl Acetate
Concen: 4.052 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 37962

Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.8	11.8

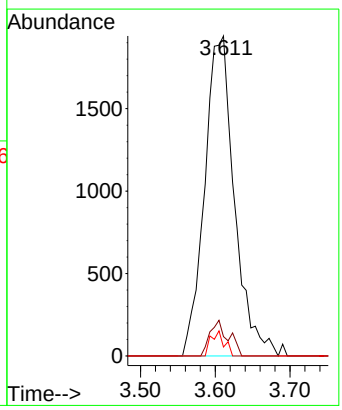


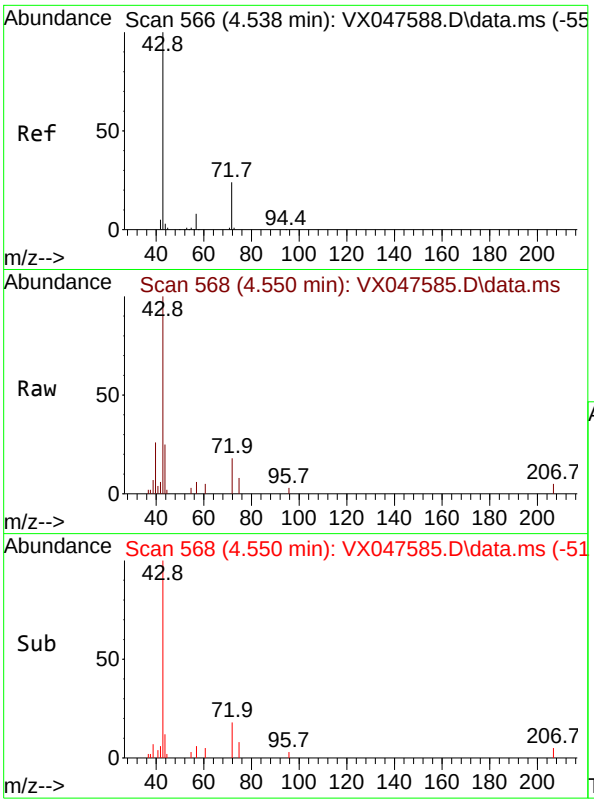


#24
1,1-Dichloroethane
Concen: 0.863 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 5372

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.8	11.2
100	2.8	2.3	6.9



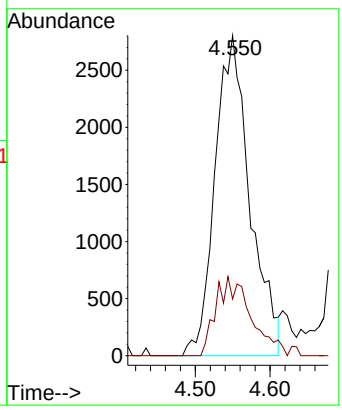


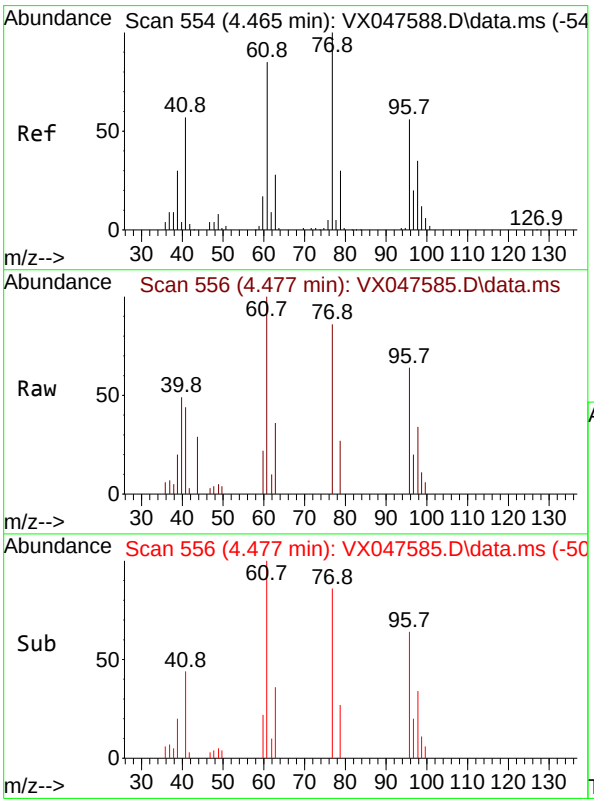
#25
2-Butanone
Concen: 4.281 ug/l
RT: 4.550 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 9105

Ion	Ratio	Lower	Upper
43	100		
72	16.3	20.1	30.1#

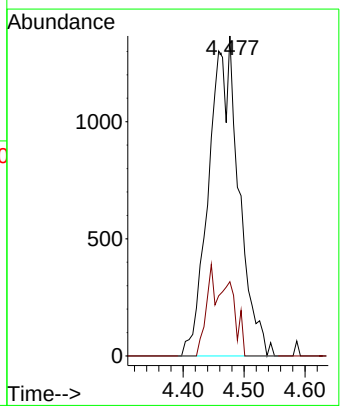


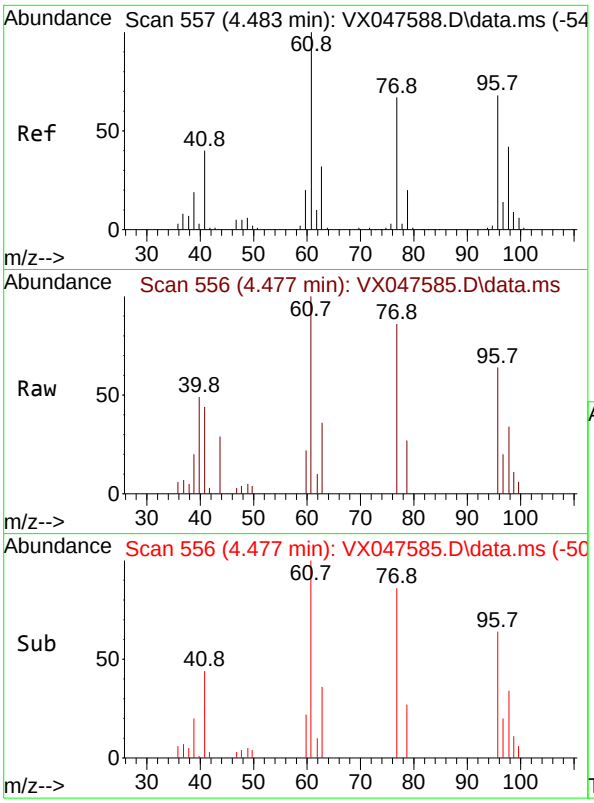


#26
2,2-Dichloropropane
Concen: 0.901 ug/l
RT: 4.477 min Scan# 556
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 77 Resp: 4657

Ion	Ratio	Lower	Upper
77	100		
97	11.0	10.9	32.7



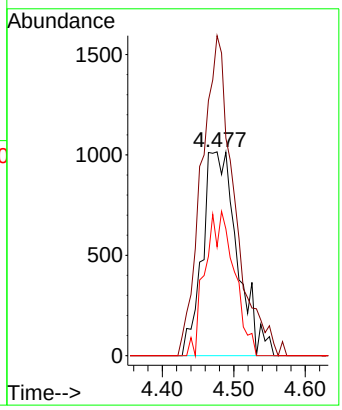


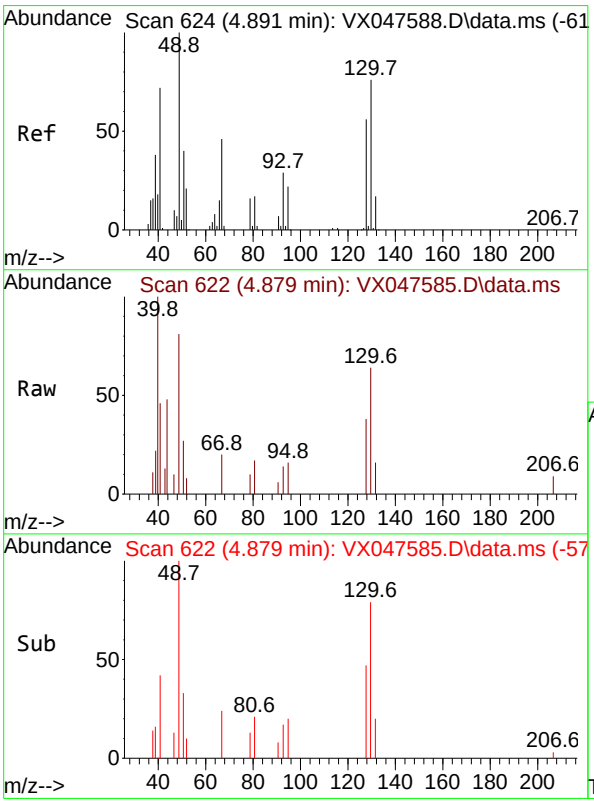
#27
cis-1,2-Dichloroethene
Concen: 0.891 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 3440

Ion	Ratio	Lower	Upper
96	100		
61	147.4	0.0	303.2
98	59.4	0.0	127.8

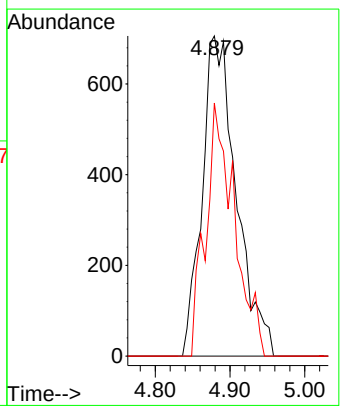


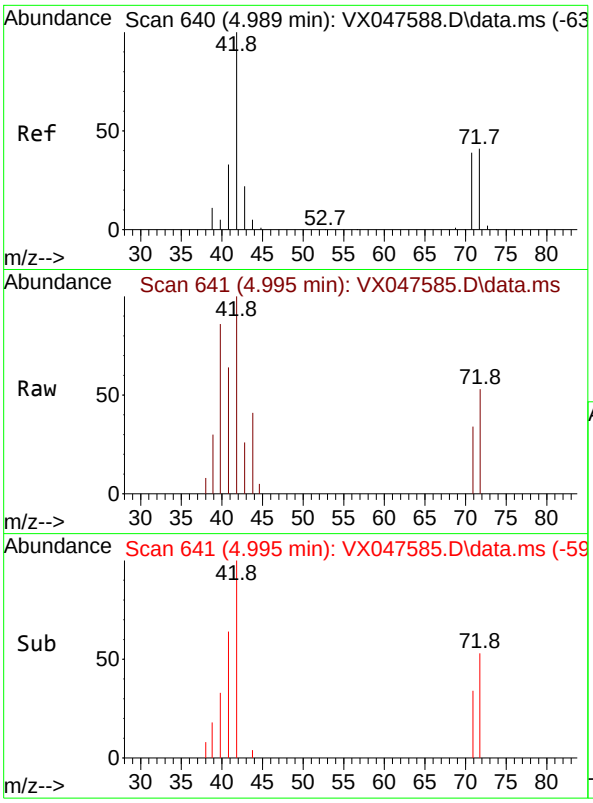


#28
Bromochloromethane
Concen: 0.829 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 49 Resp: 2251

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.2
130	66.2	57.8	86.8



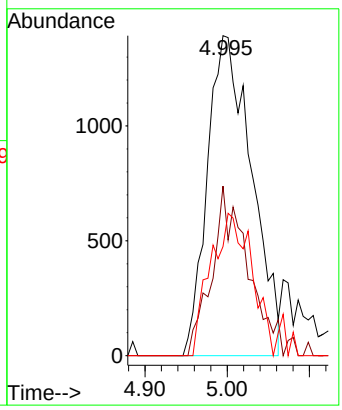


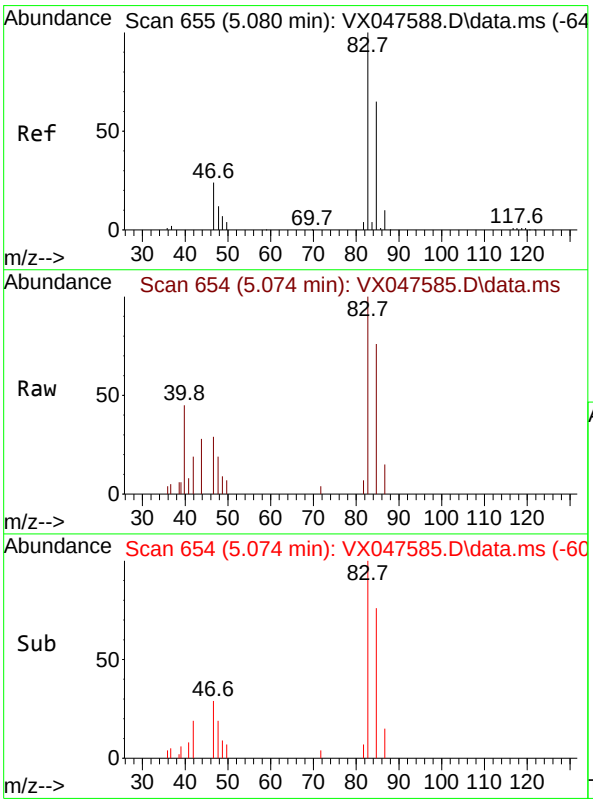
#29
Tetrahydrofuran
Concen: 4.072 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 5210

Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.2	51.2
71	41.3	31.9	47.9

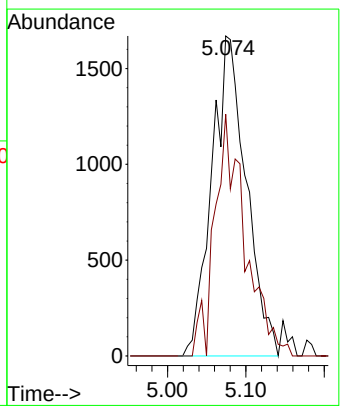


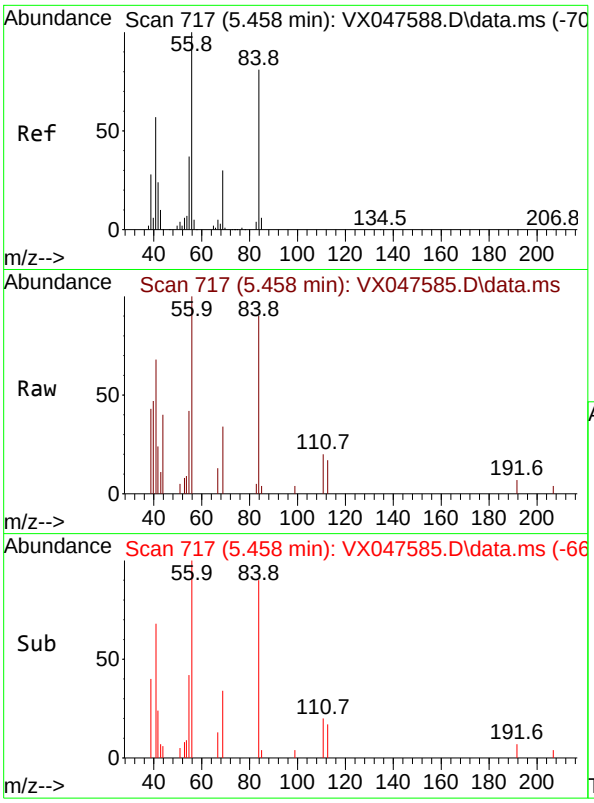


#30
Chloroform
Concen: 0.810 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 5093

Ion	Ratio	Lower	Upper
83	100		
85	75.6	51.8	77.6



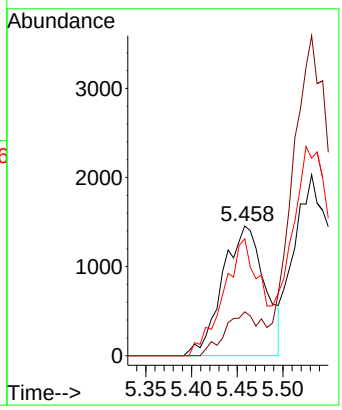


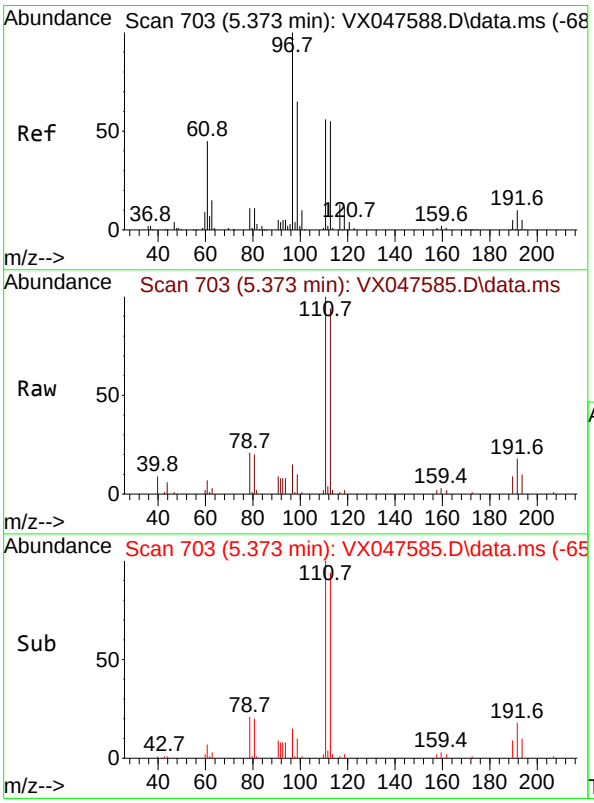
#31
Cyclohexane
Concen: 0.901 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 4668

Ion	Ratio	Lower	Upper
56	100		
69	33.8	23.8	35.8
84	90.0	64.6	97.0

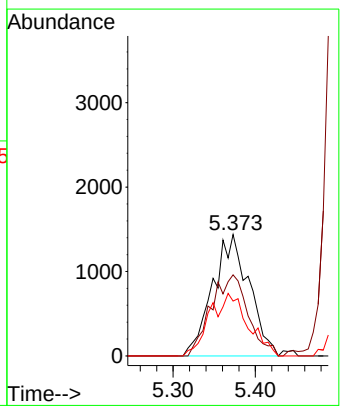


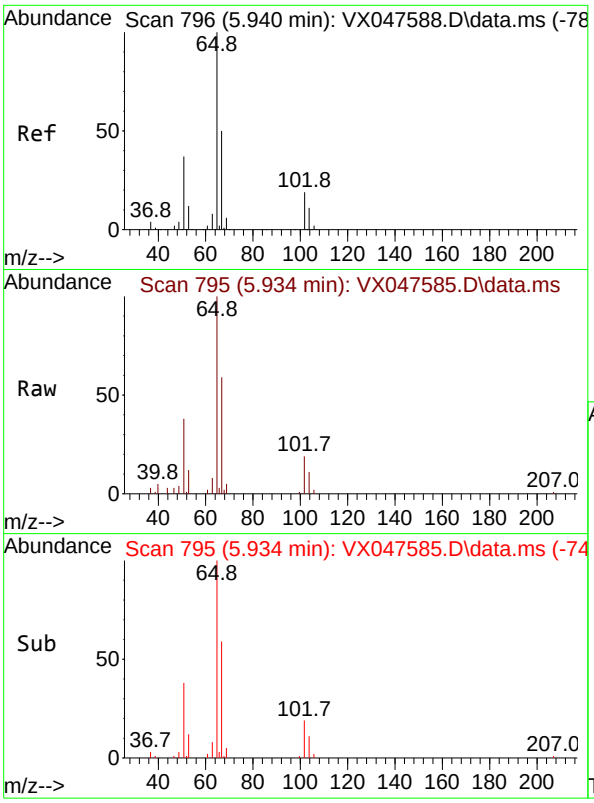


#32
1,1,1-Trichloroethane
Concen: 0.832 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 4439

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.6	76.0#
61	36.2	35.8	53.8



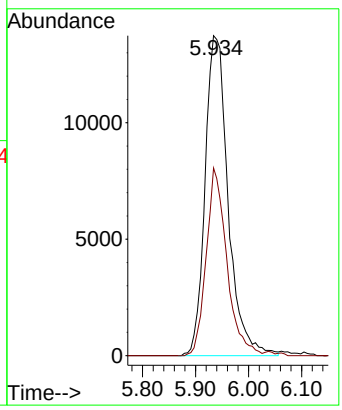


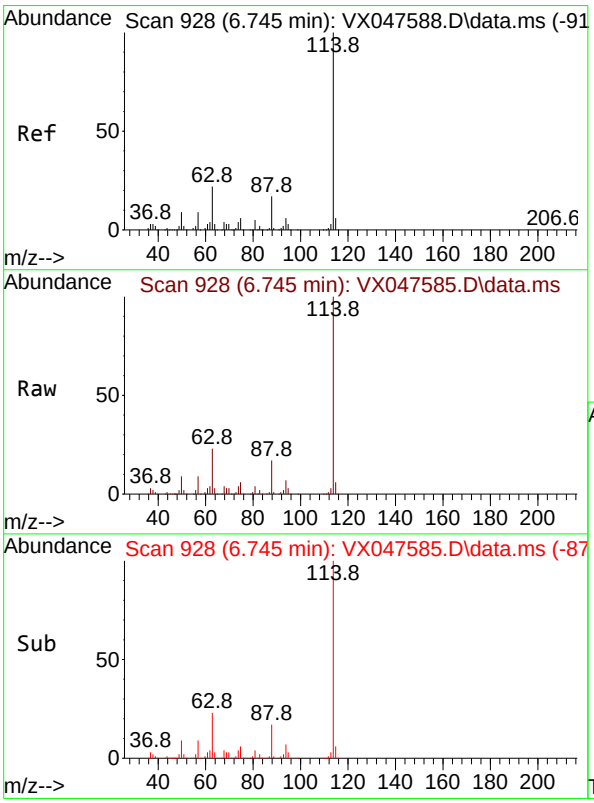
#33
1,2-Dichloroethane-d4
Concen: 10.583 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 41500

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	103.0

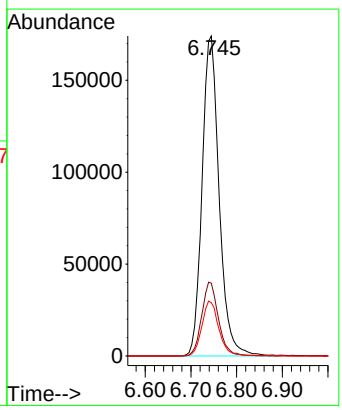


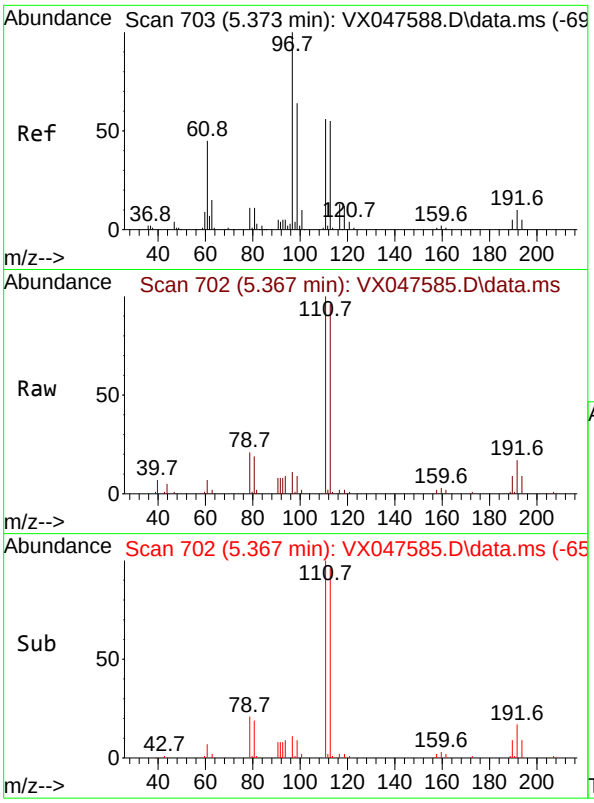


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:114 Resp: 451502

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	44.0
88	16.6	0.0	34.2



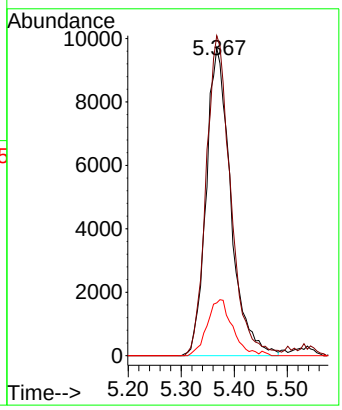


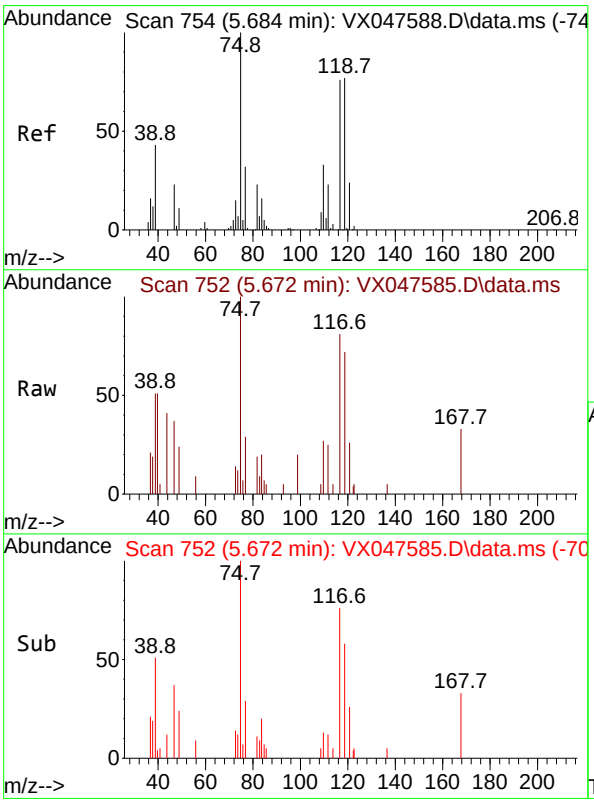
#35
Dibromofluoromethane
Concen: 10.300 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 31188

Ion	Ratio	Lower	Upper
113	100		
111	103.7	80.9	121.3
192	18.6	14.2	21.4

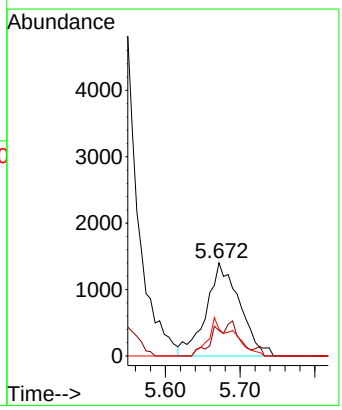


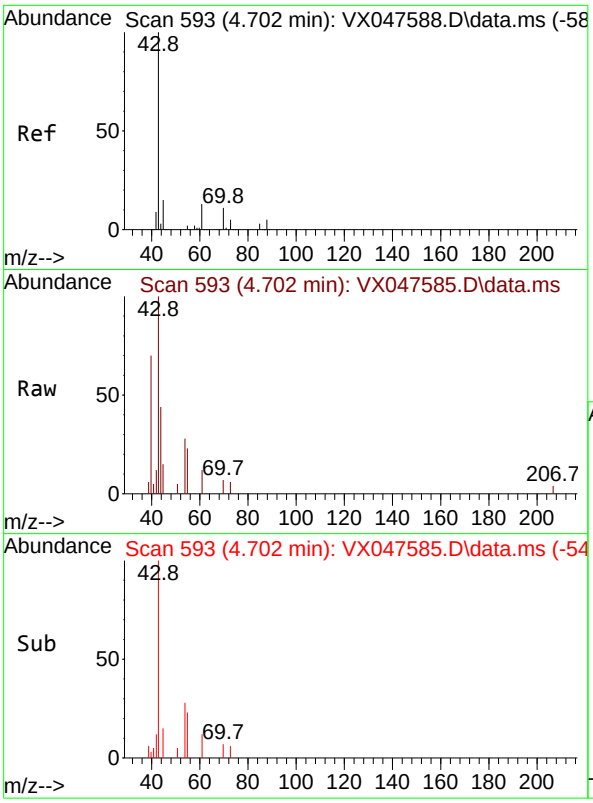


#36
1,1-Dichloropropene
Concen: 0.988 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 4373

Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.7	50.1#
77	30.0	24.3	36.5



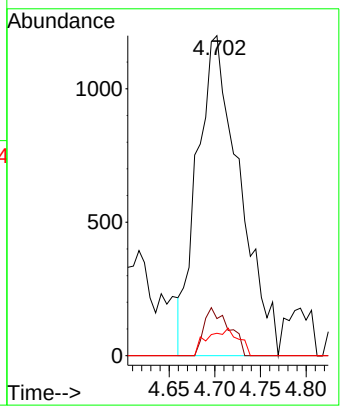


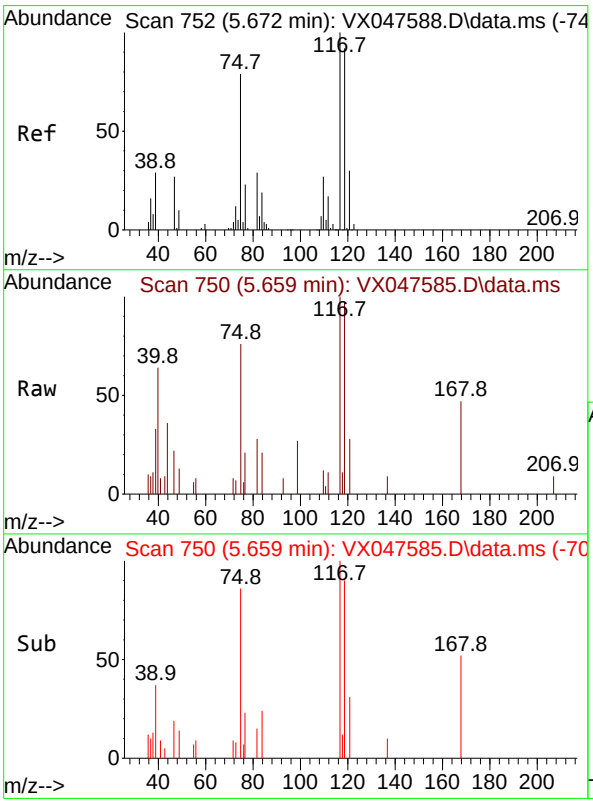
#37
Ethyl Acetate
Concen: 0.818 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
61	8.9	9.8	14.8#
70	6.2	7.9	11.9#

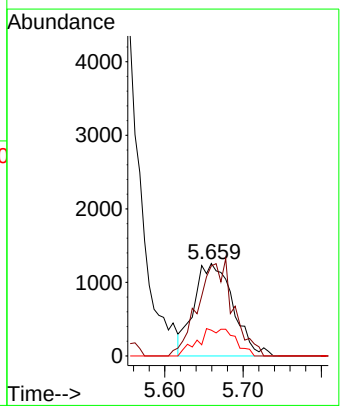


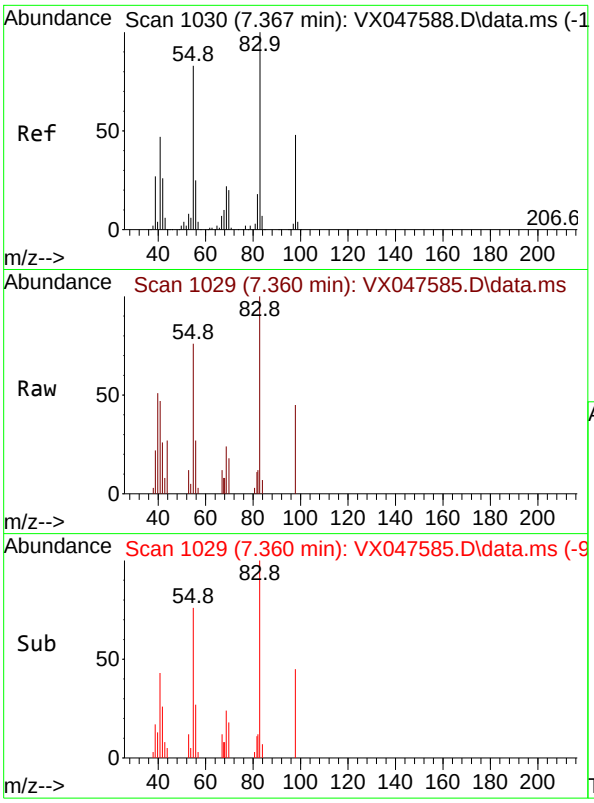


#38
Carbon Tetrachloride
Concen: 0.905 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 4349

Ion	Ratio	Lower	Upper
117	100		
119	97.3	73.4	110.2
121	27.8	23.8	35.6



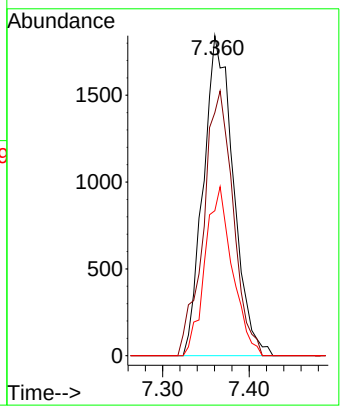


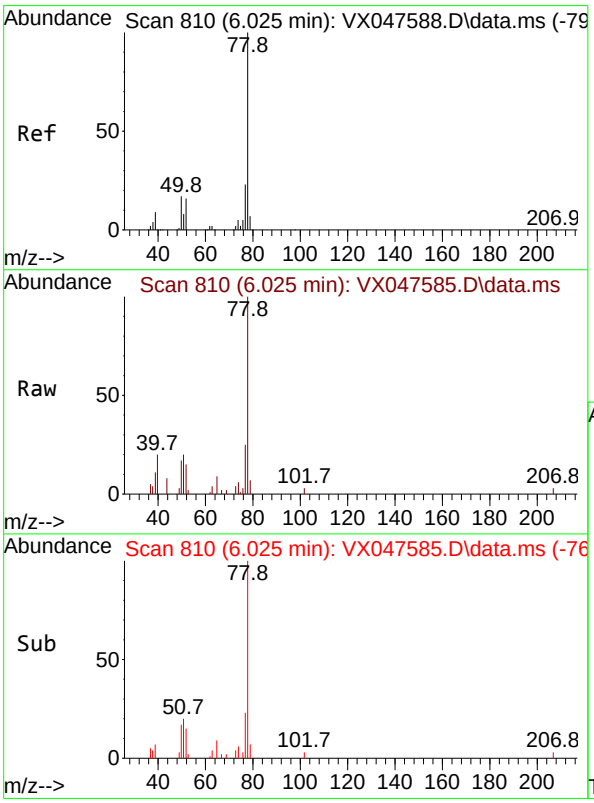
#39
Methylcyclohexane
Concen: 0.882 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 4428

Ion	Ratio	Lower	Upper
83	100		
55	76.0	66.4	99.6
98	45.3	38.1	57.1

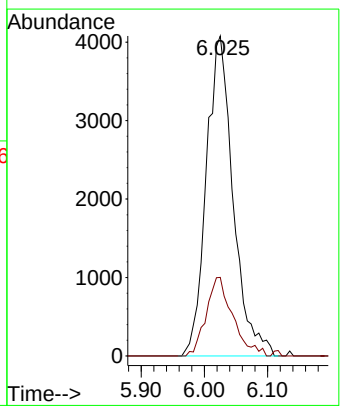


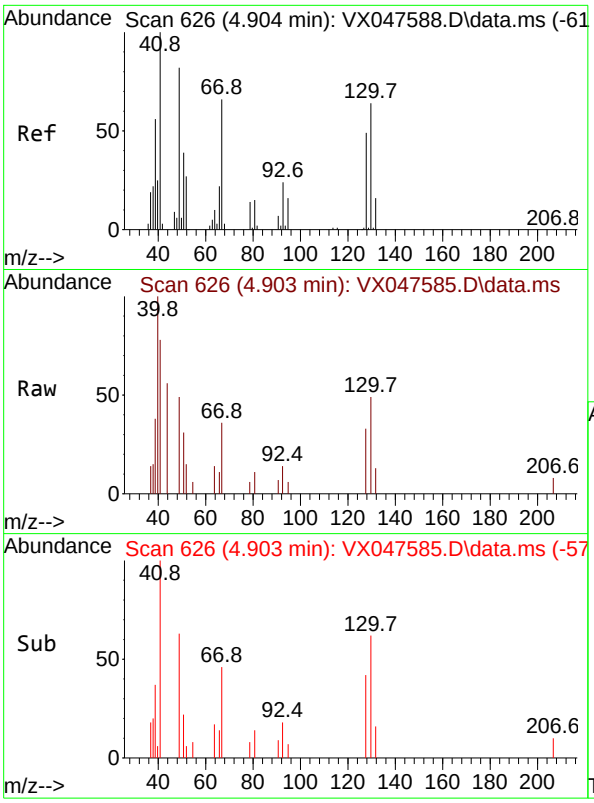


#40
Benzene
Concen: 0.894 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 78 Resp: 12012

Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2



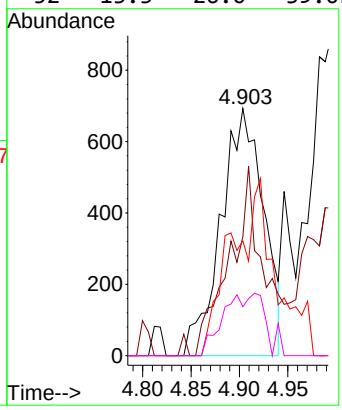


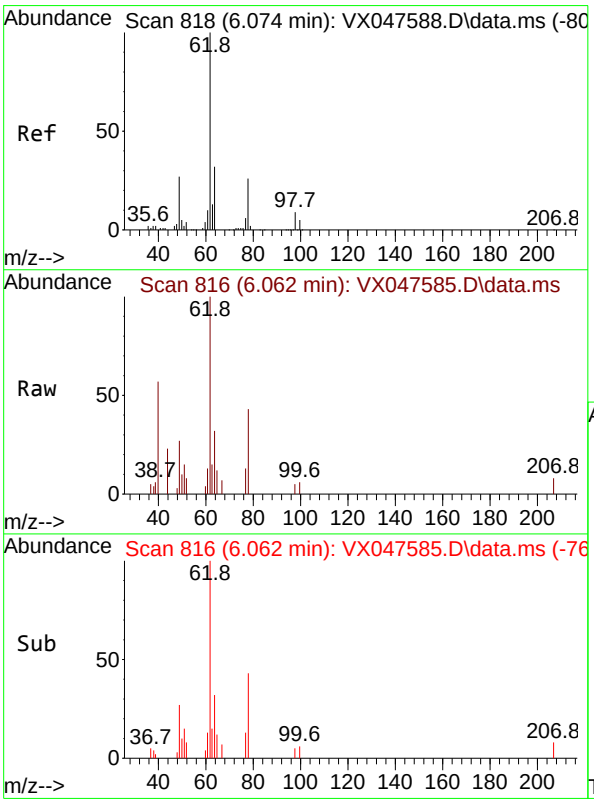
#41
Methacrylonitrile
Concen: 0.870 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 2128

Ion	Ratio	Lower	Upper
41	100		
39	60.3	43.3	64.9
67	23.5	58.6	87.8#
52	13.3	26.0	39.0#

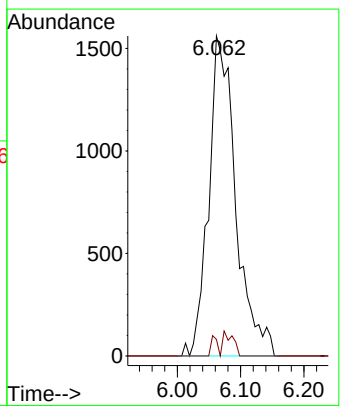


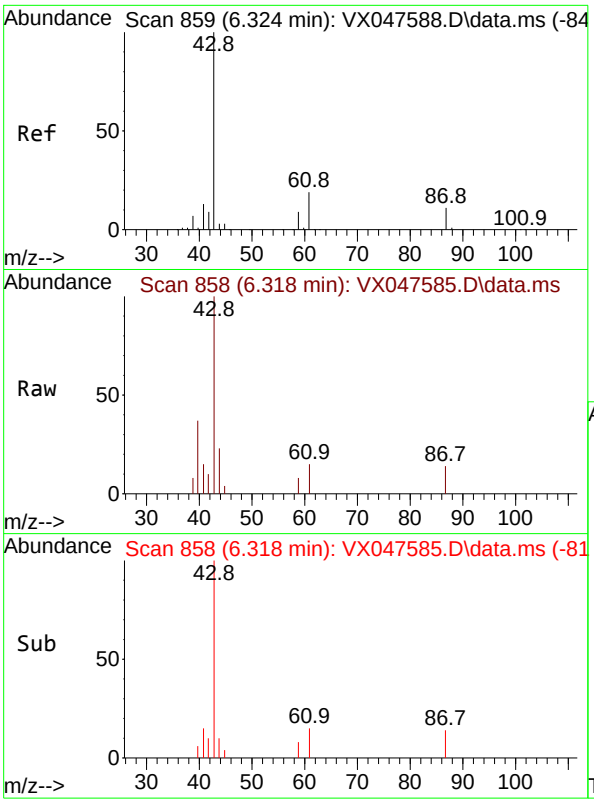


#42
1,2-Dichloroethane
Concen: 0.906 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 4634

Ion	Ratio	Lower	Upper
62	100		
98	1.4	0.0	17.0



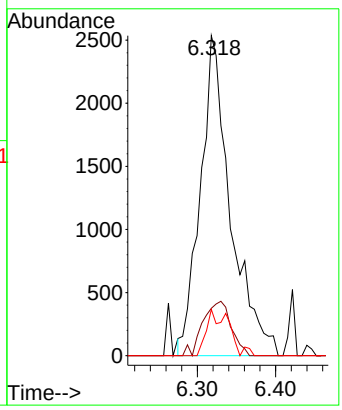


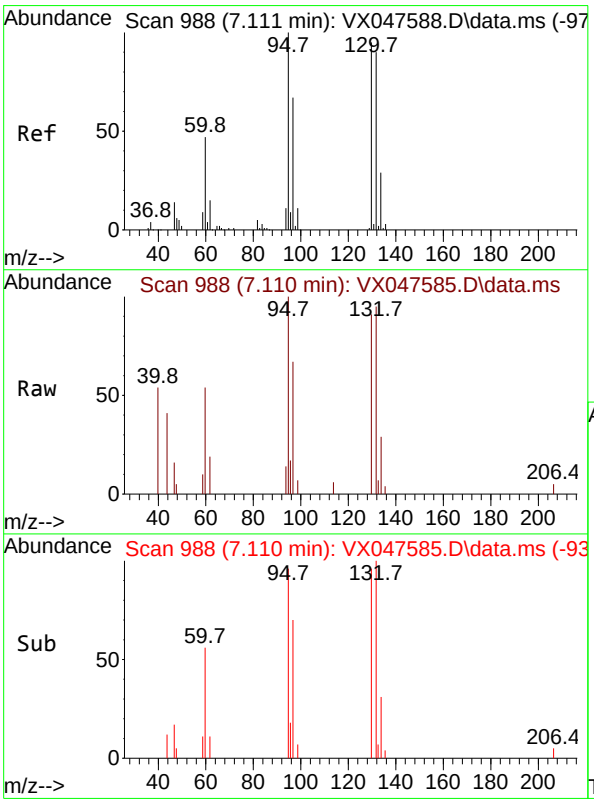
#43
Isopropyl Acetate
Concen: 0.873 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 6784

Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.2	22.8
87	10.1	9.6	14.4

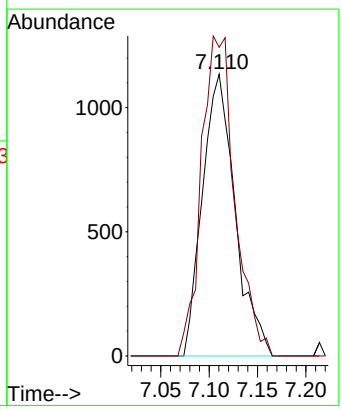


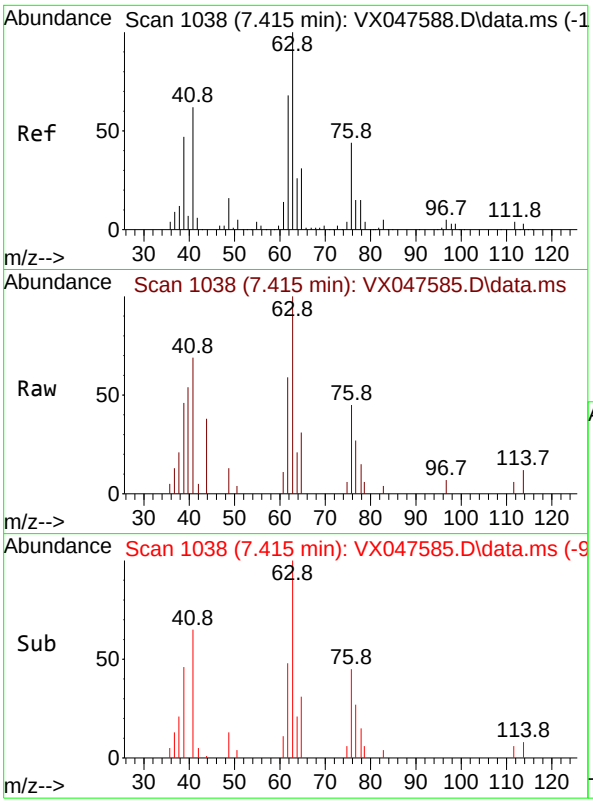


#44
Trichloroethene
Concen: 0.824 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:130 Resp: 2677

Ion	Ratio	Lower	Upper
130	100		
95	127.9	0.0	210.8



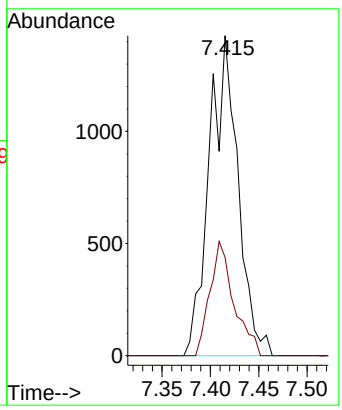


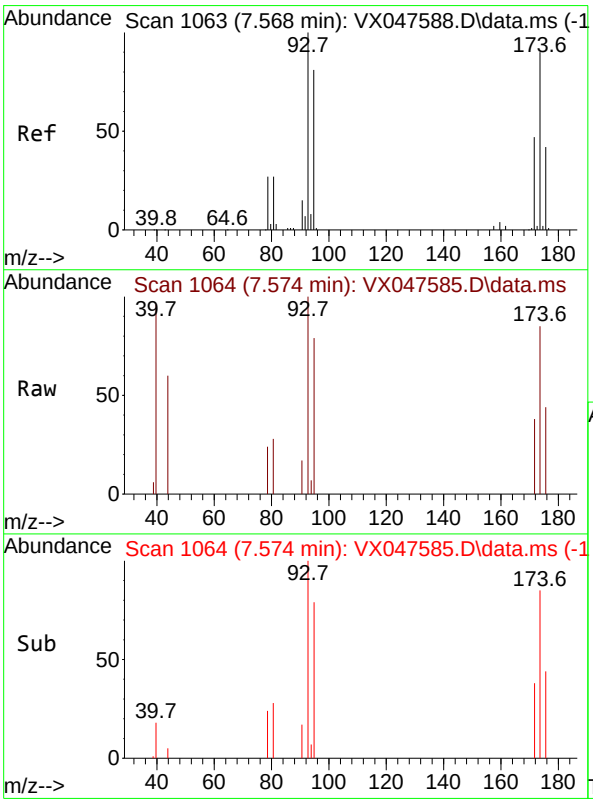
#45
1,2-Dichloropropane
Concen: 0.856 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 2945

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

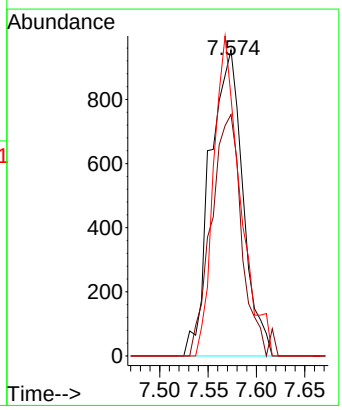


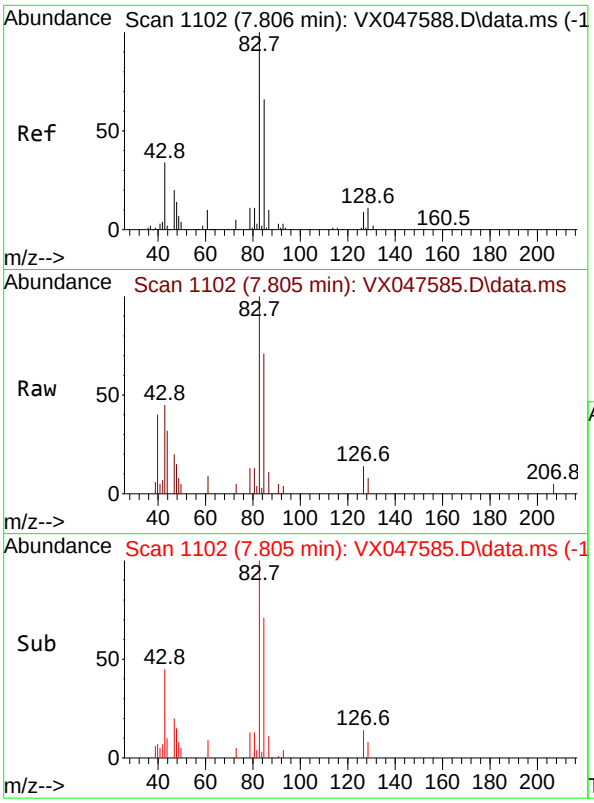


#46
Dibromomethane
Concen: 0.895 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 93 Resp: 2240

Ion	Ratio	Lower	Upper
93	100		
95	74.4	65.0	97.6
174	85.1	71.6	107.4



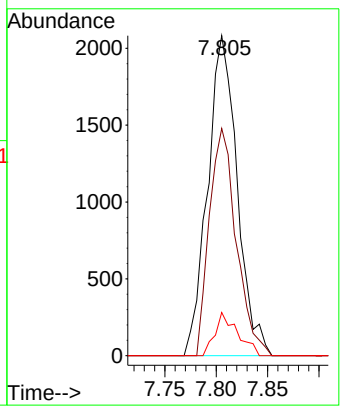


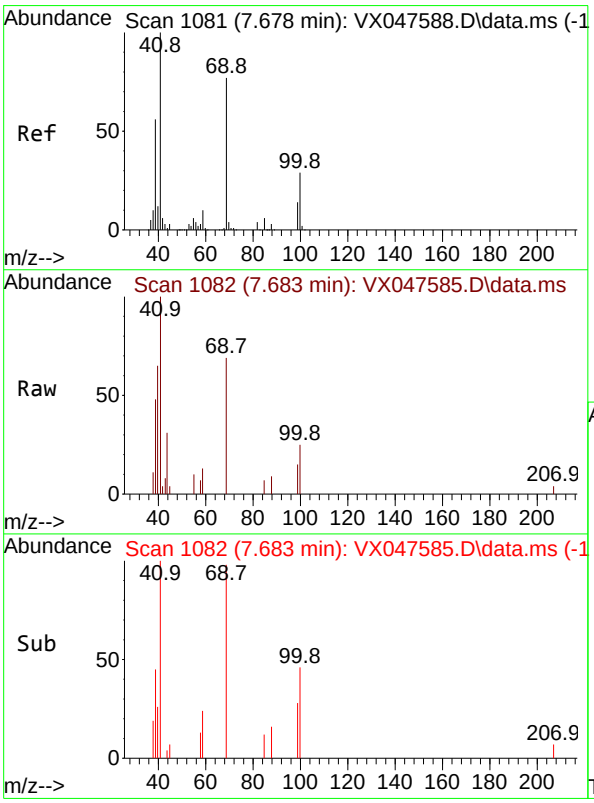
#47
Bromodichloromethane
Concen: 0.806 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 4167

Ion	Ratio	Lower	Upper
83	100		
85	71.0	52.5	78.7
127	13.5	6.9	10.3#

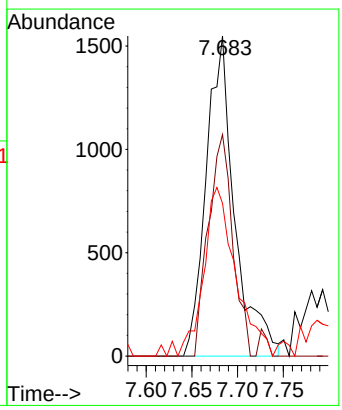


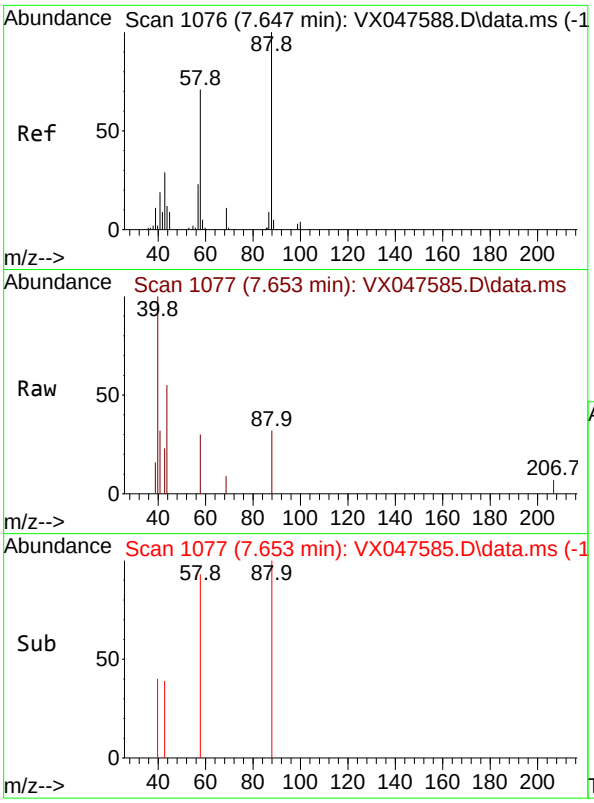


#48
Methyl methacrylate
Concen: 0.867 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 3355

Ion	Ratio	Lower	Upper
41	100		
69	59.3	61.4	92.2#
39	59.5	45.8	68.6



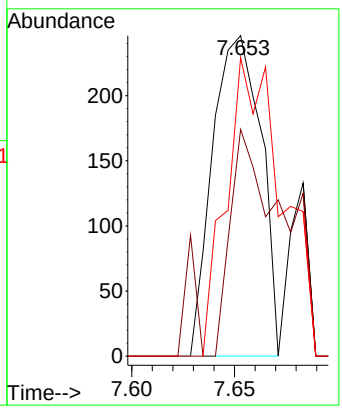


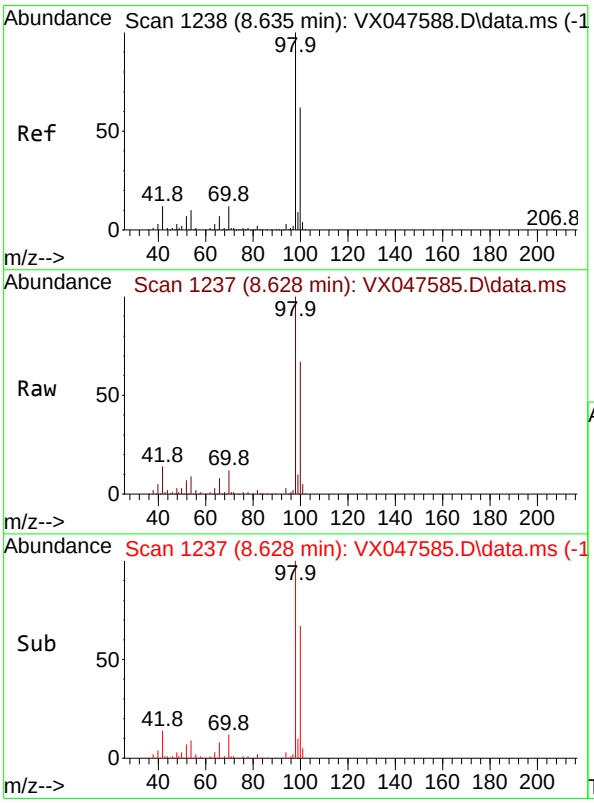
#49
1,4-Dioxane
Concen: 10.329 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 404

Ion	Ratio	Lower	Upper
88	100		
43	77.5	30.2	45.2#
58	107.4	59.5	89.3#

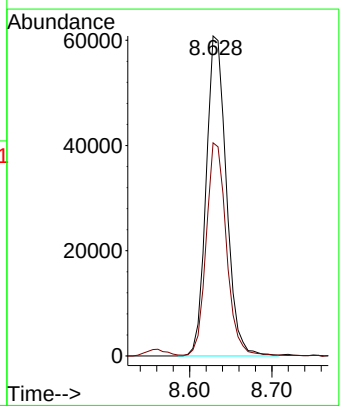


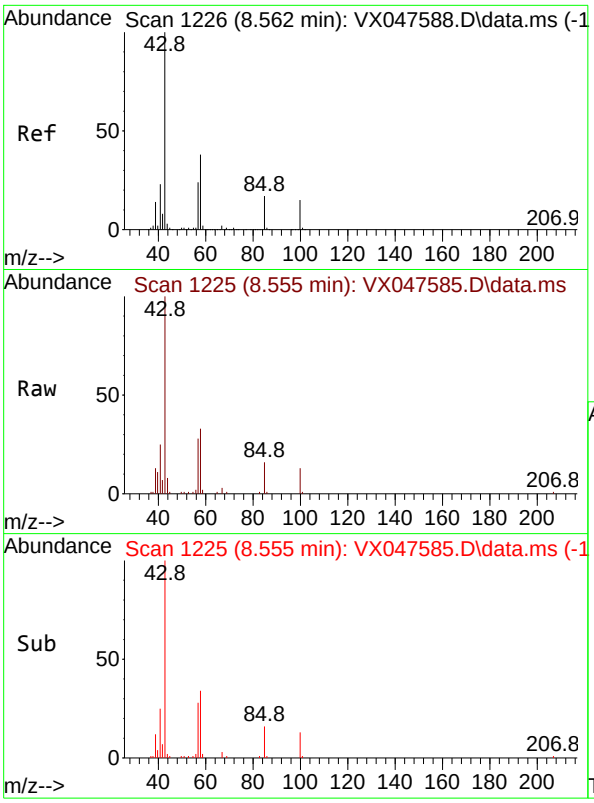


#50
Toluene-d8
Concen: 9.913 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 98 Resp: 103865

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4



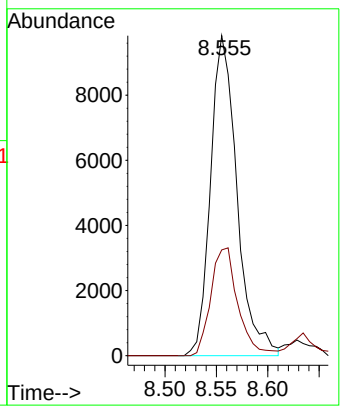


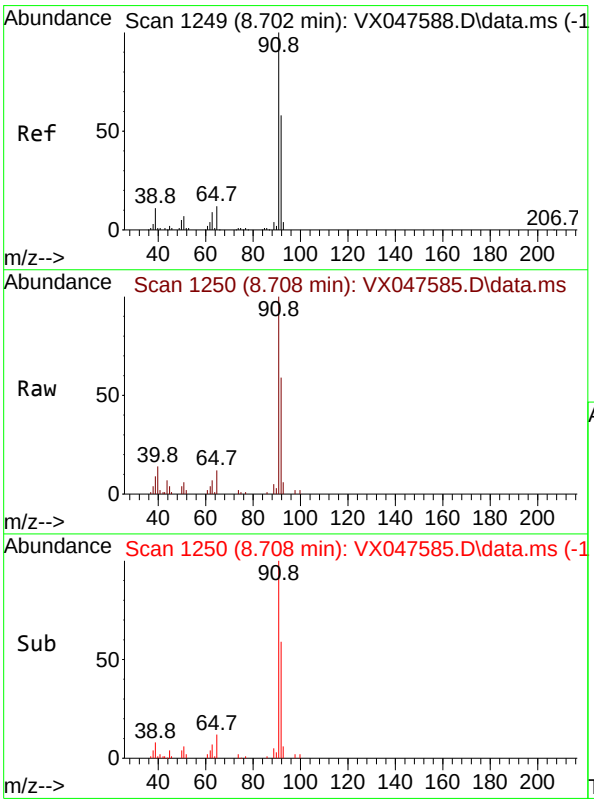
#51
4-Methyl-2-Pentanone
Concen: 4.085 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 17596

Ion	Ratio	Lower	Upper
43	100		
58	34.7	30.3	45.5

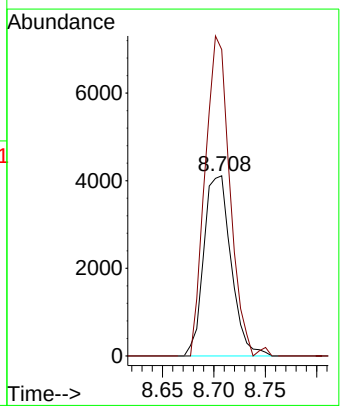


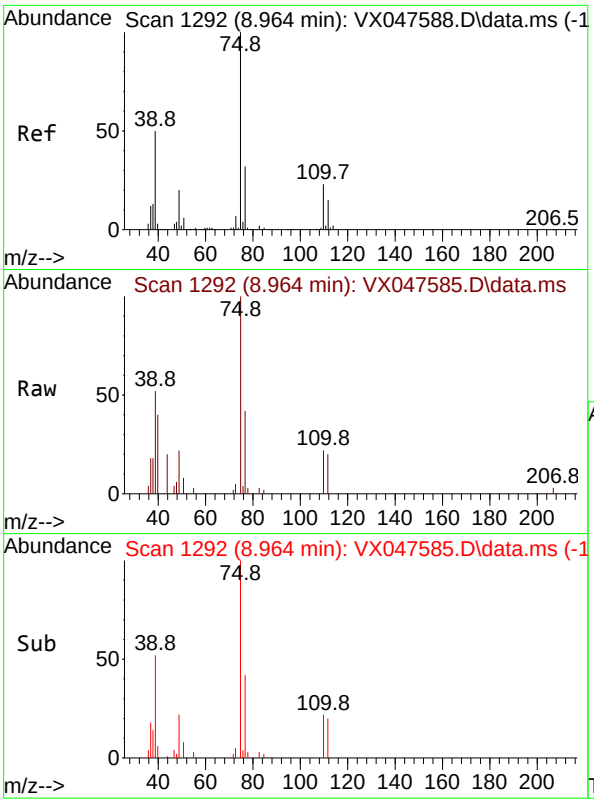


#52
Toluene
Concen: 0.917 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 92 Resp: 7595

Ion	Ratio	Lower	Upper
92	100		
91	160.7	137.1	205.7



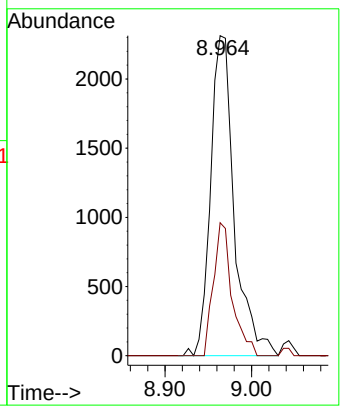


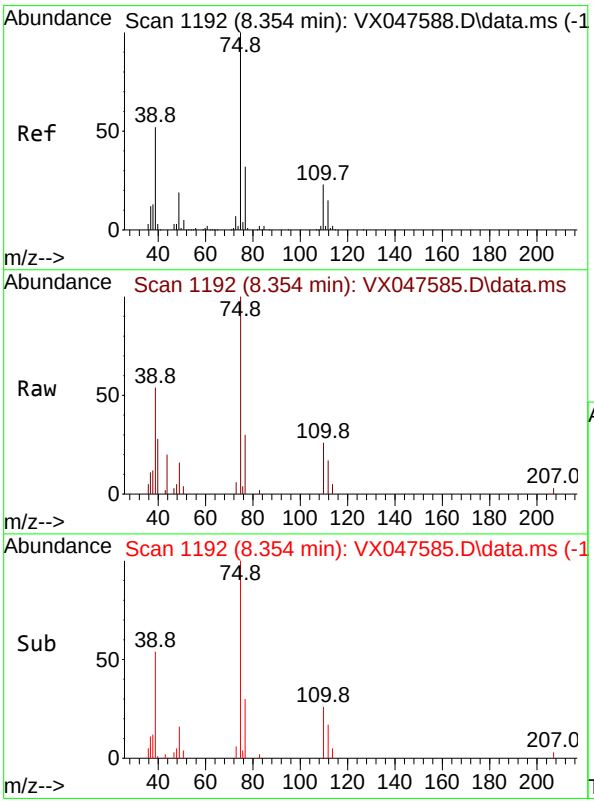
#53
t-1,3-Dichloropropene
Concen: 0.834 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 4398

Ion	Ratio	Lower	Upper
75	100		
77	41.5	25.4	38.2#

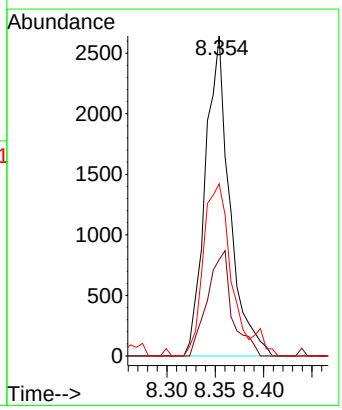


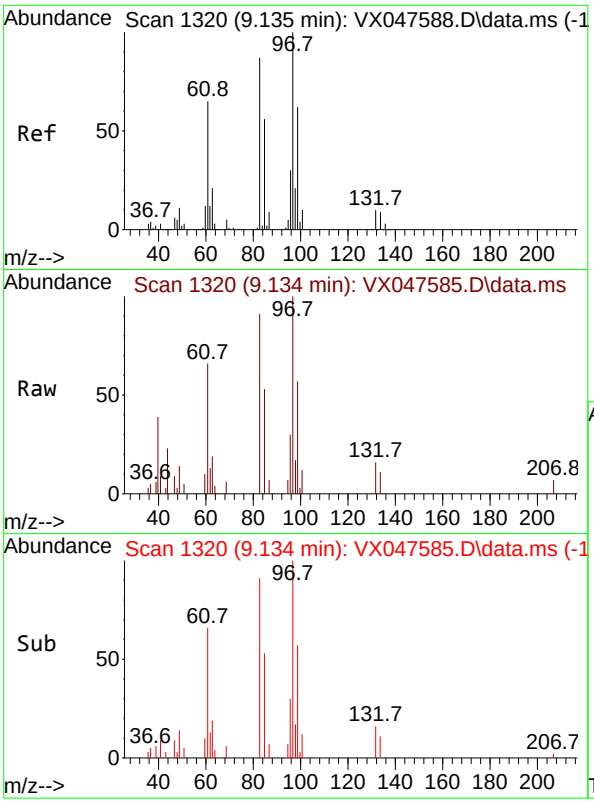


#54
cis-1,3-Dichloropropene
Concen: 0.823 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 4635

Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.8	38.6
39	25.6	41.4	62.2#



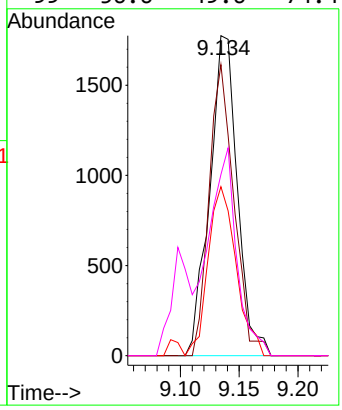


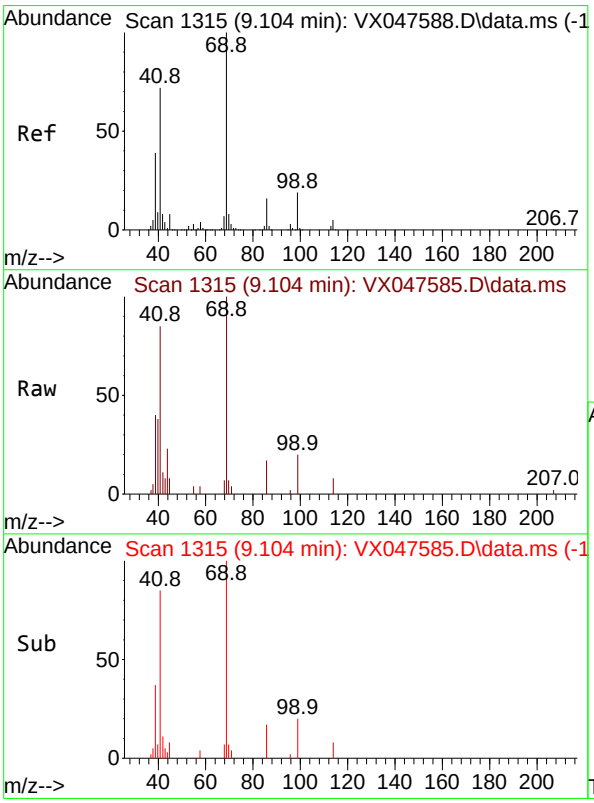
#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 2918

Ion	Ratio	Lower	Upper
97	100		
83	90.9	69.6	104.4
85	52.8	45.0	67.6
99	56.6	49.6	74.4

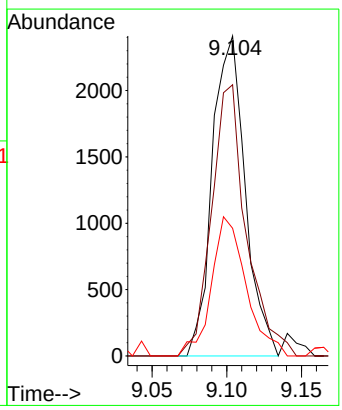


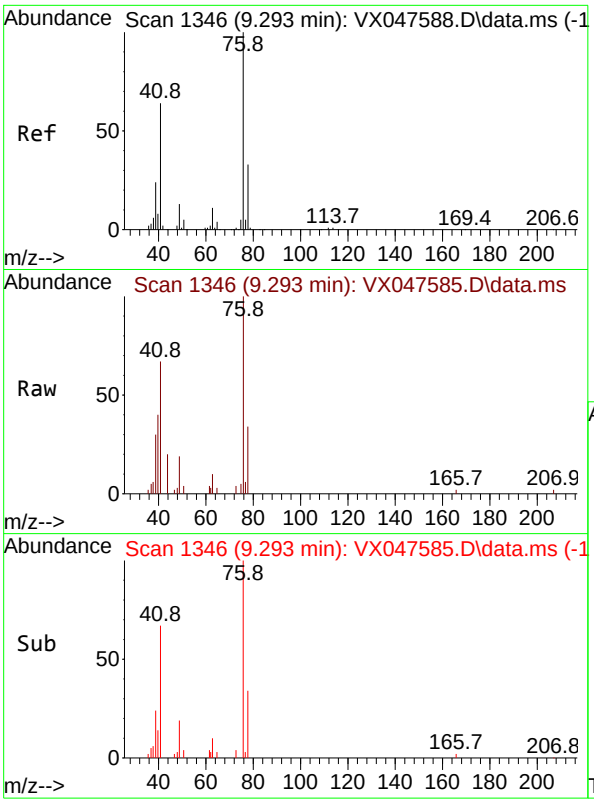


#56
Ethyl methacrylate
Concen: 0.734 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 69 Resp: 3679

Ion	Ratio	Lower	Upper
69	100		
41	89.4	58.6	87.8#
39	46.0	31.5	47.3



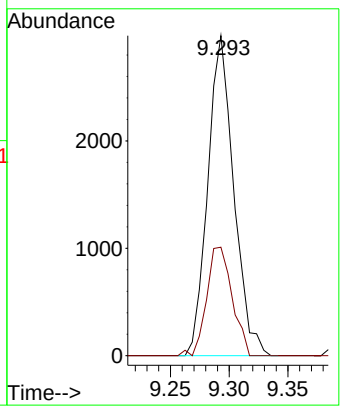


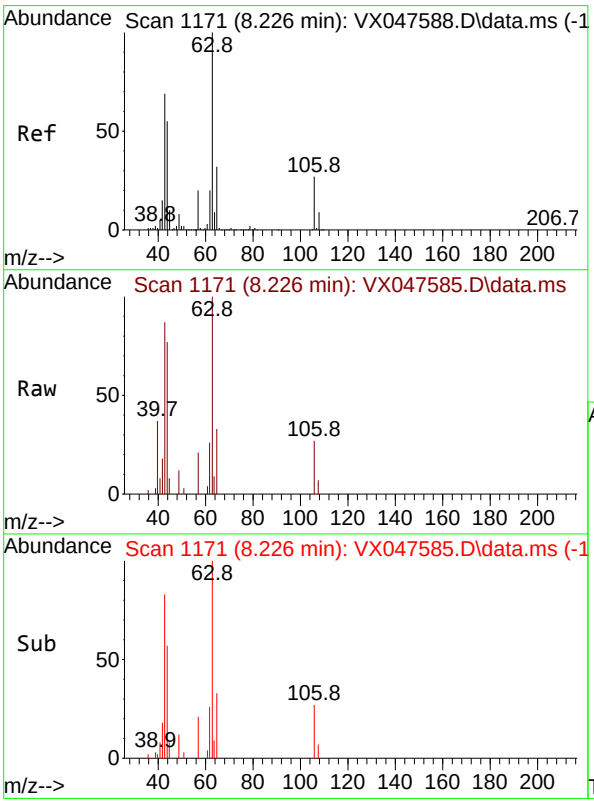
#57
1,3-Dichloropropane
Concen: 0.835 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 4580

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.2	39.4

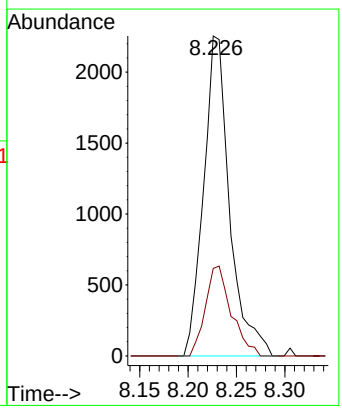


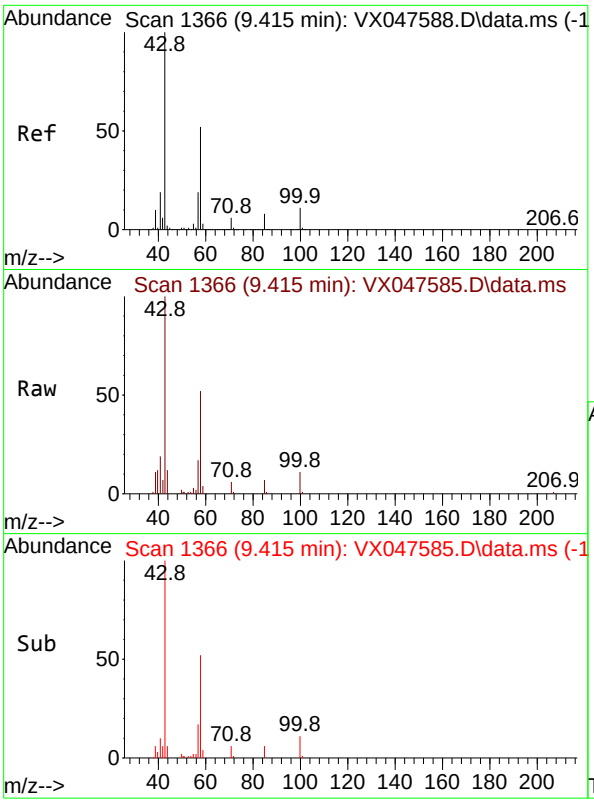


#58
2-Chloroethyl Vinyl ether
Concen: 9.665 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 4222

Ion	Ratio	Lower	Upper
63	100		
106	27.9	21.9	32.9



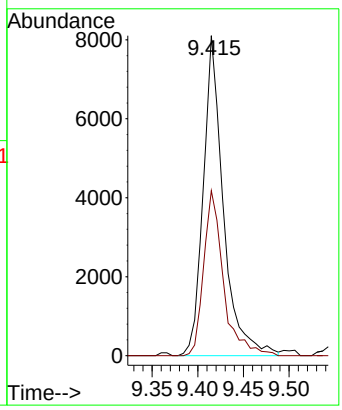


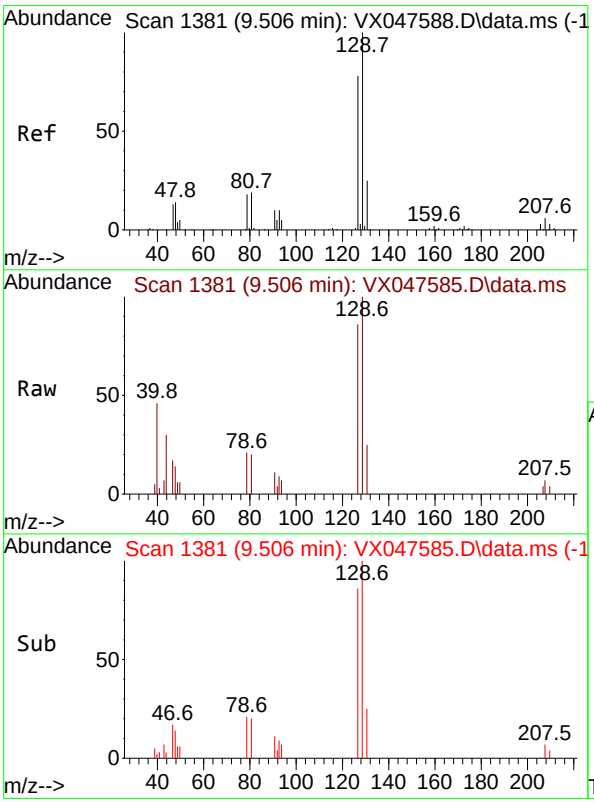
#59
2-Hexanone
Concen: 4.003 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 12385

Ion	Ratio	Lower	Upper
43	100		
58	50.7	26.1	78.2

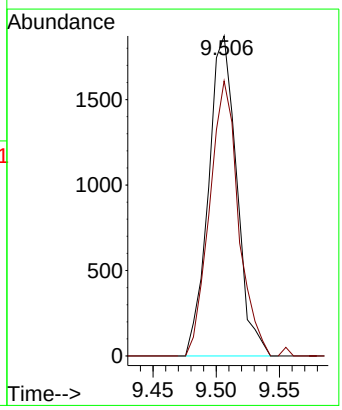


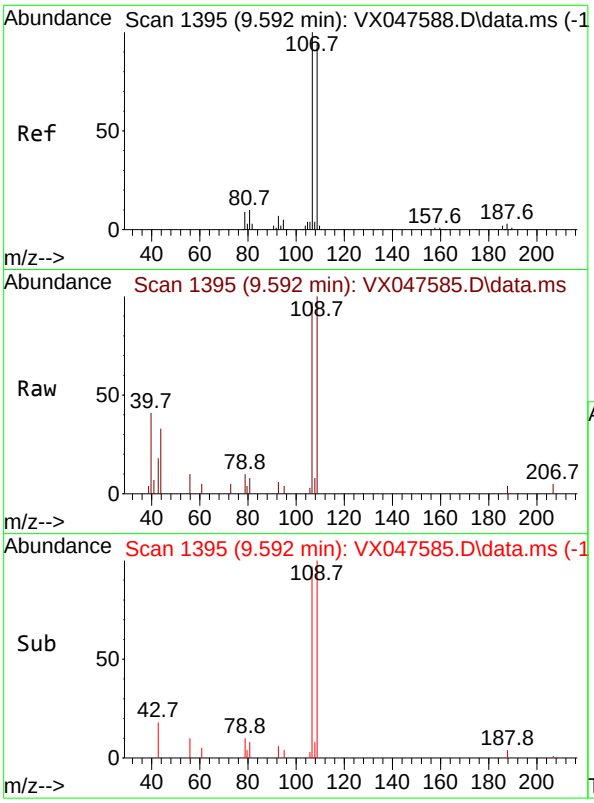


#60
Dibromochloromethane
Concen: 0.789 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:129 Resp: 2903

Ion	Ratio	Lower	Upper
129	100		
127	88.2	38.4	115.2



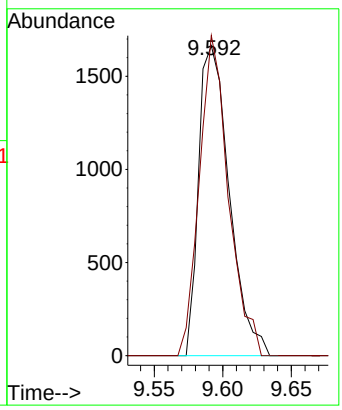


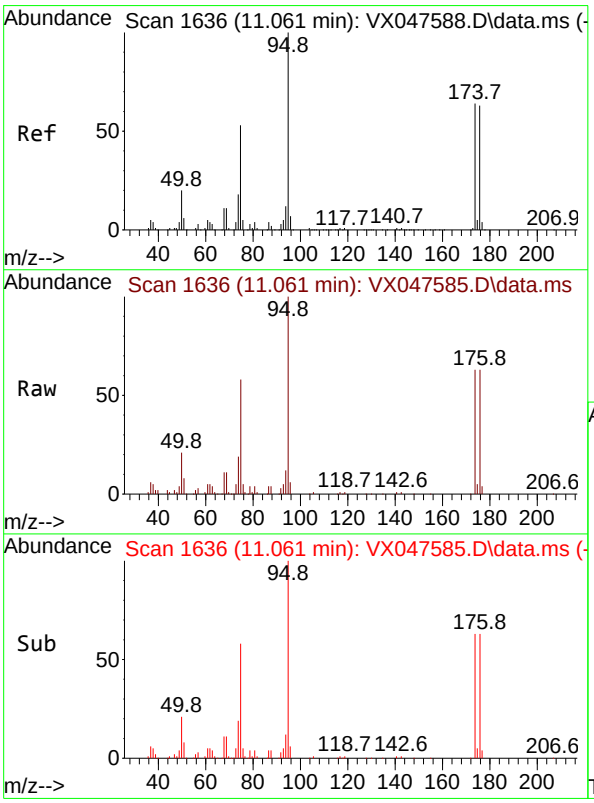
#61
1,2-Dibromoethane
Concen: 0.798 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 2596

Ion	Ratio	Lower	Upper
107	100		
109	97.7	75.3	112.9

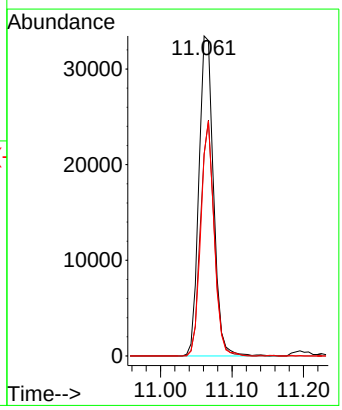


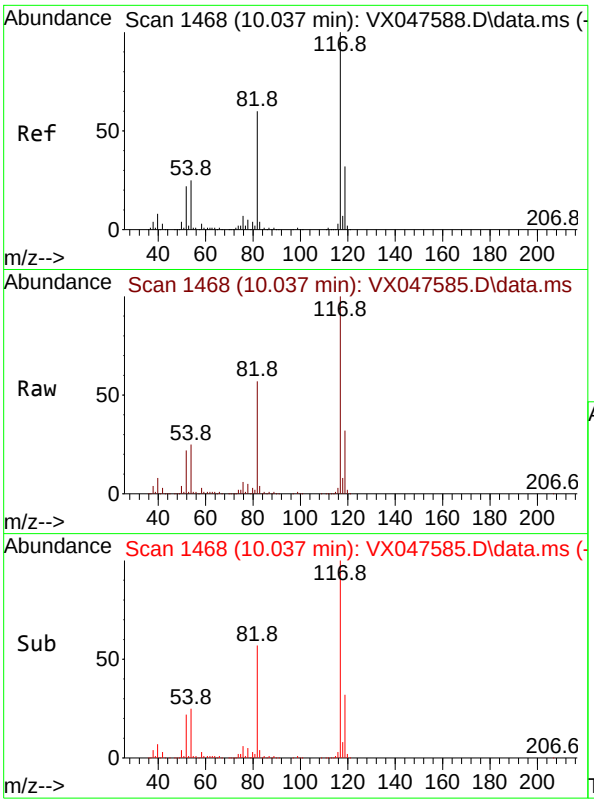


#62
4-Bromofluorobenzene
Concen: 11.900 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 95 Resp: 47321

Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	141.6
176	67.0	0.0	138.4



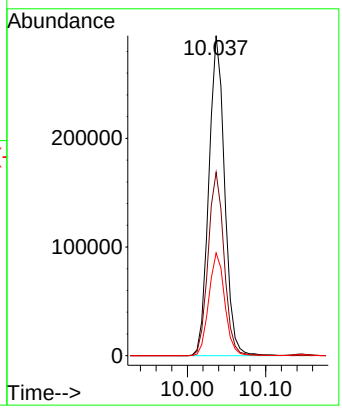


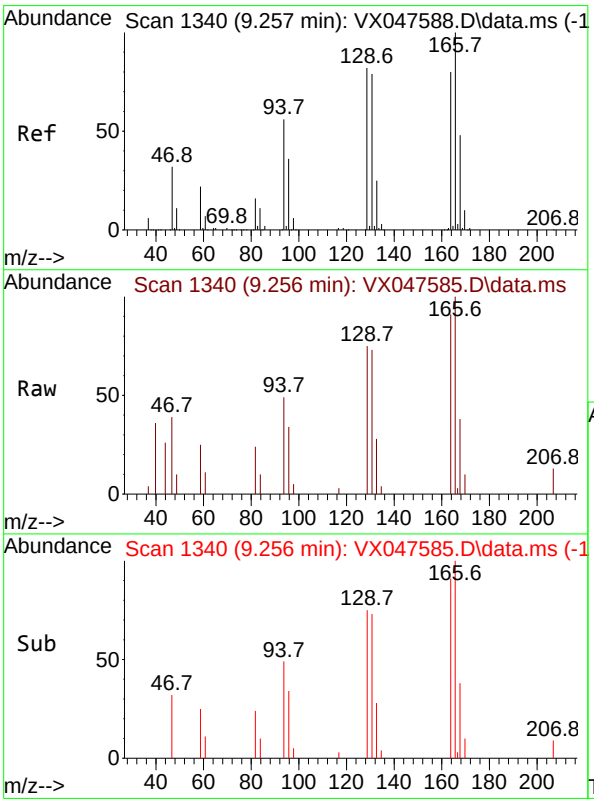
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 410953

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.8	71.6
119	32.1	25.2	37.8

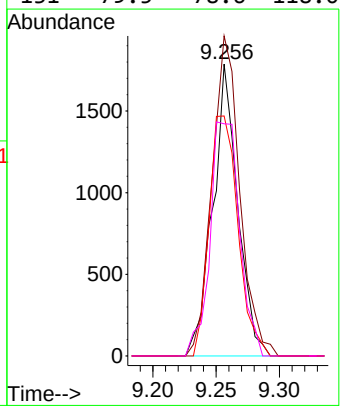


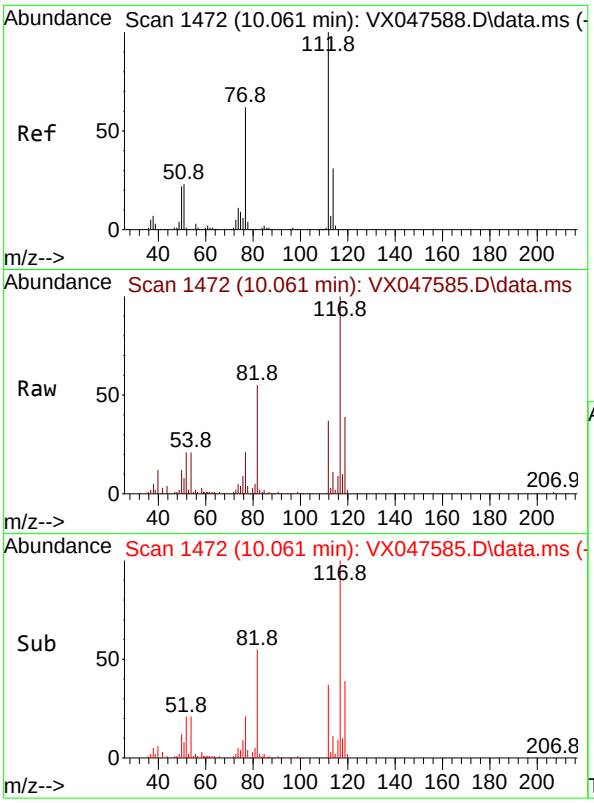


#64
Tetrachloroethene
Concen: 0.917 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:164 Resp: 2457

Ion	Ratio	Lower	Upper
164	100		
166	109.6	100.2	150.2
129	82.2	81.8	122.6
131	79.5	78.6	118.0



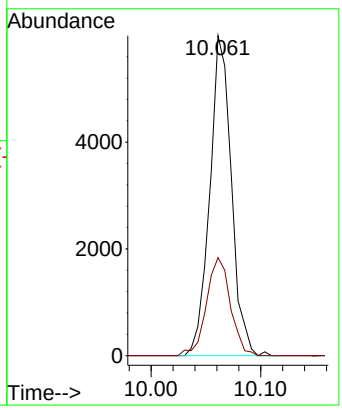


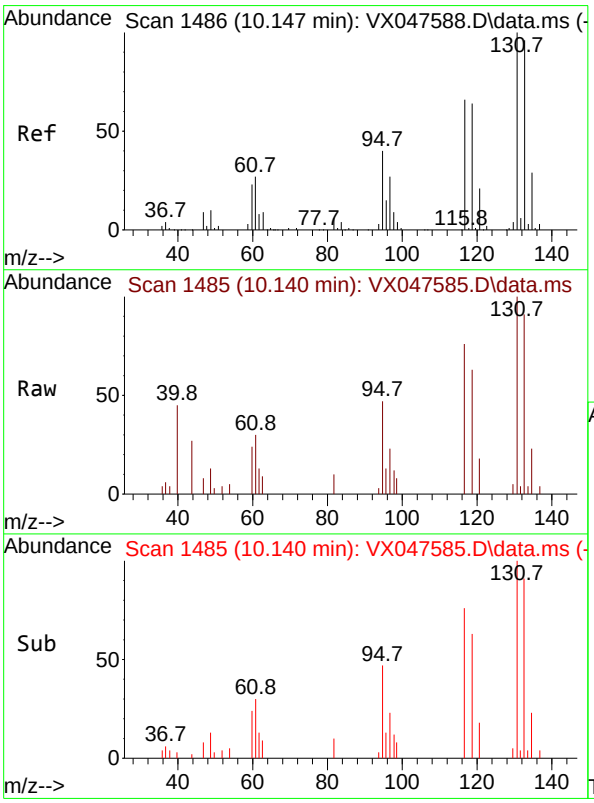
#65
Chlorobenzene
Concen: 0.879 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 8202

Ion	Ratio	Lower	Upper
112	100		
114	30.7	25.1	37.7

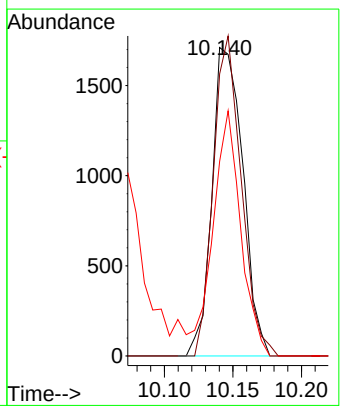


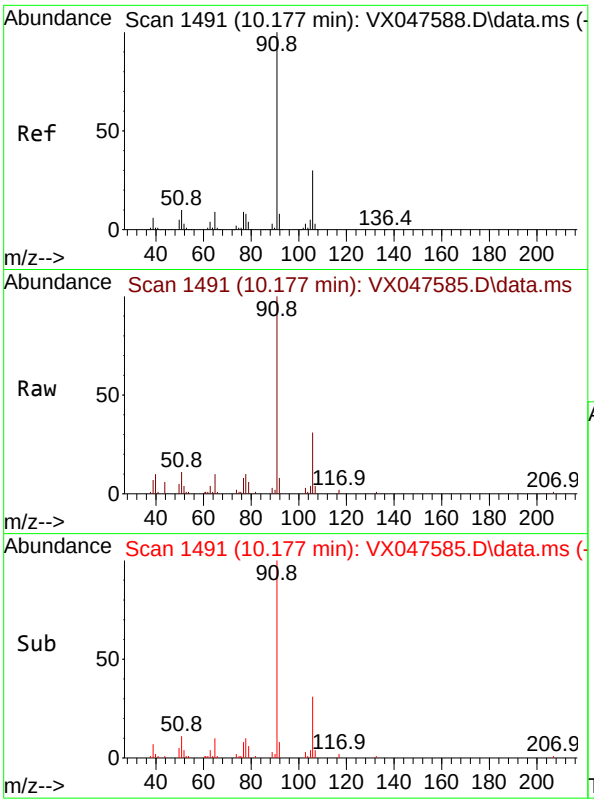


#66
1,1,1,2-Tetrachloroethane
Concen: 0.833 ug/l
RT: 10.140 min Scan# 1485
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:131 Resp: 2684

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	0.0	32.0	96.0#



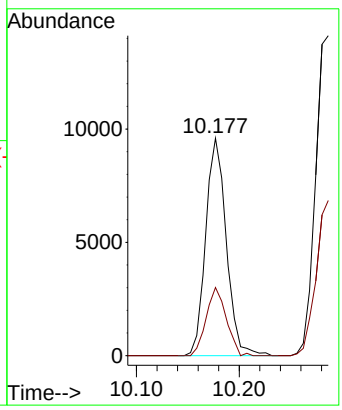


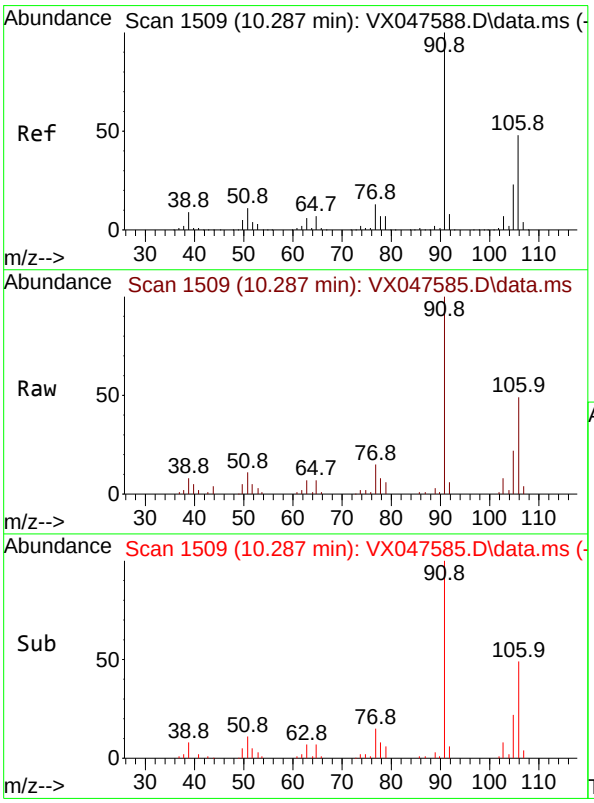
#67
Ethyl Benzene
Concen: 0.829 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 13360

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.3	36.5

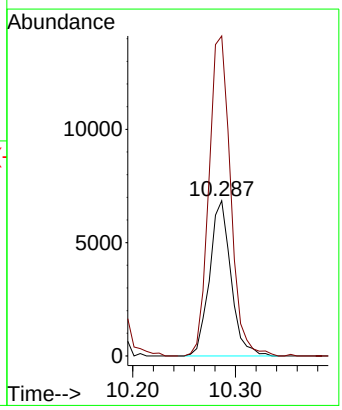


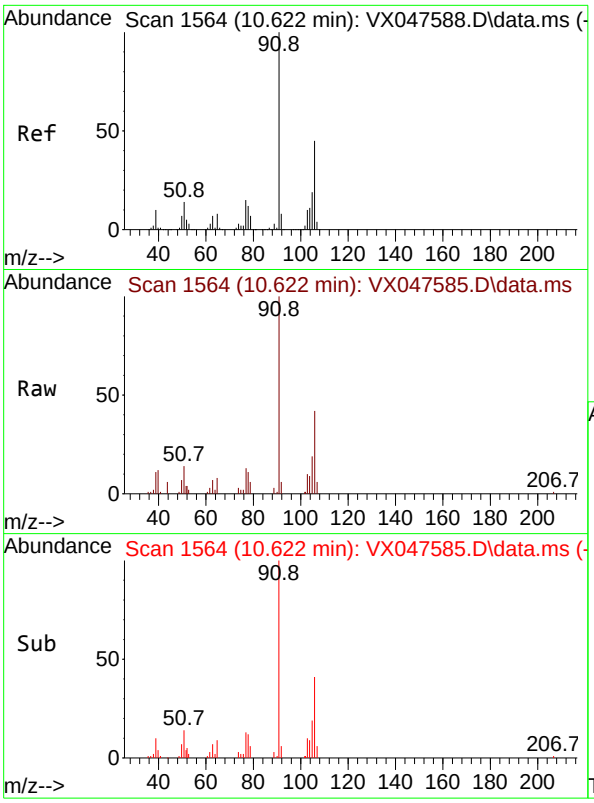


#68
m/p-Xylenes
Concen: 1.655 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:106 Resp: 9922

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8



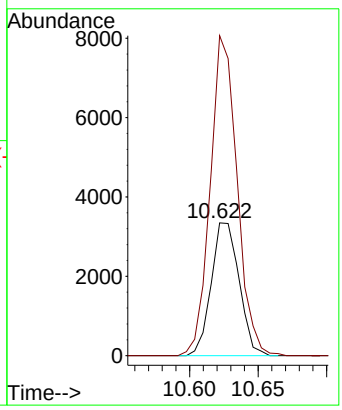


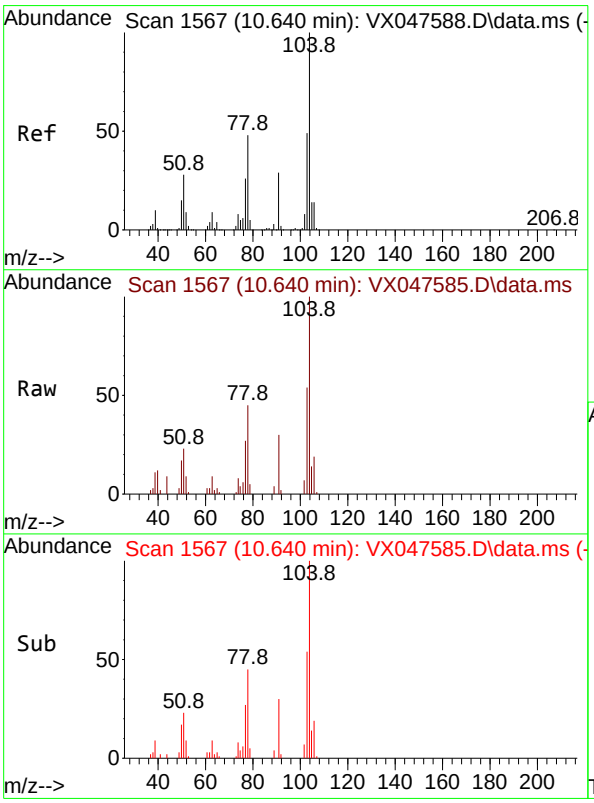
#69
o-Xylene
Concen: 0.816 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 4734

Ion	Ratio	Lower	Upper
106	100		
91	232.4	111.1	333.4

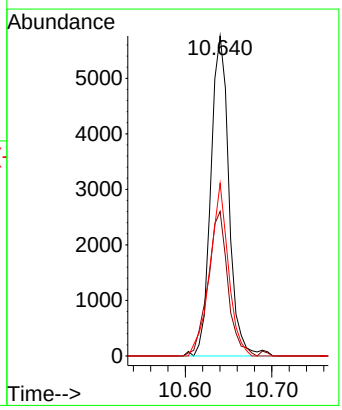


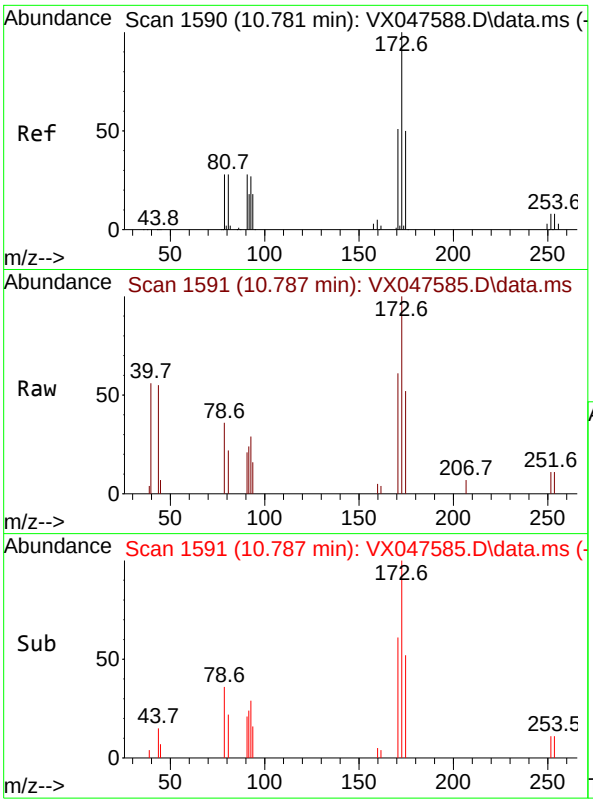


#70
Styrene
Concen: 0.824 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:104 Resp: 8377

Ion	Ratio	Lower	Upper
104	100		
78	49.5	43.1	64.7
103	55.0	43.1	64.7



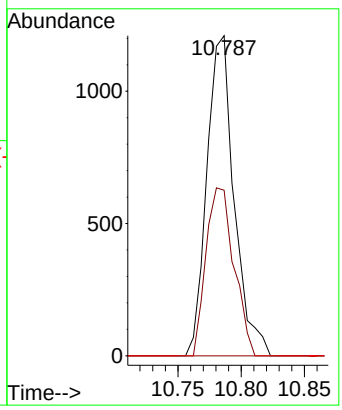


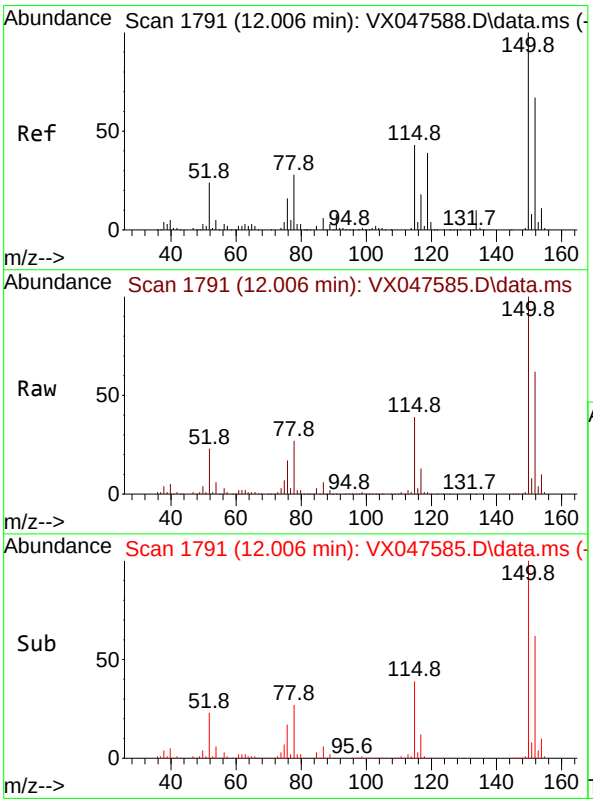
#71
Bromoform
Concen: 0.755 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 1816

Ion	Ratio	Lower	Upper
173	100		
175	53.8	24.9	74.6
254	0.0	0.1	0.1#

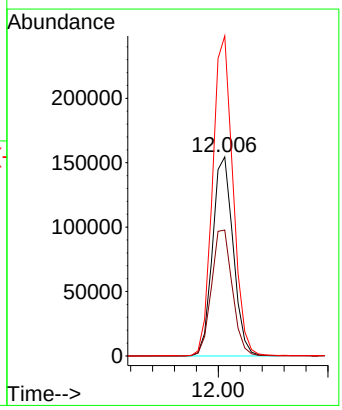


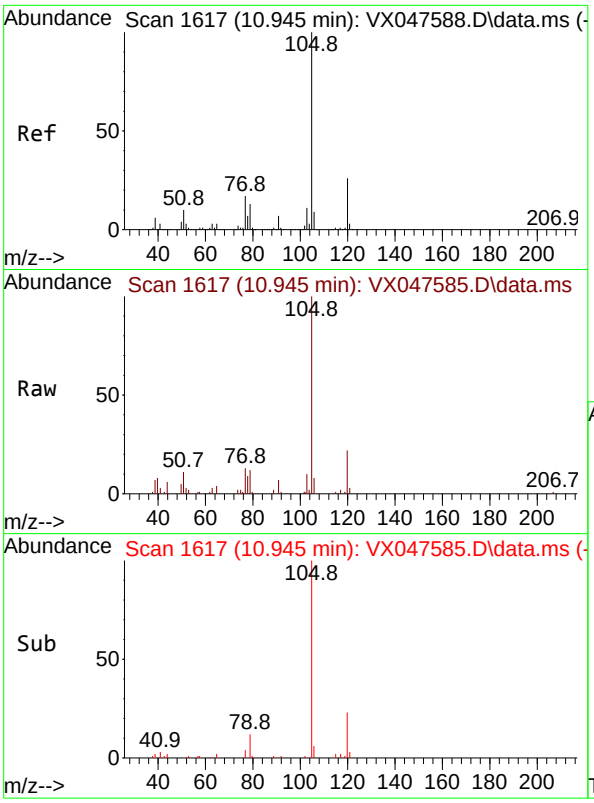


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:152 Resp: 201976

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.9	134.5
150	158.7	0.0	352.0



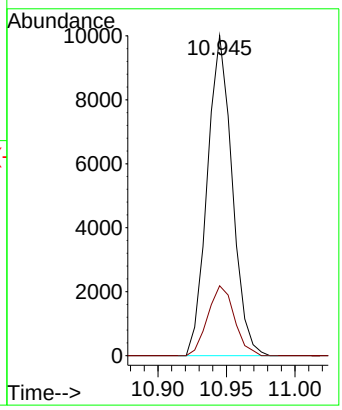


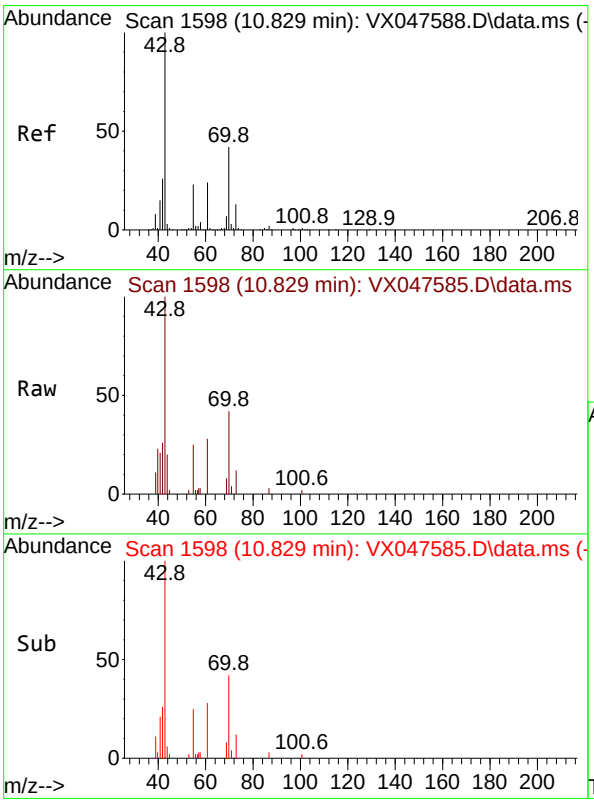
#73
Isopropylbenzene
Concen: 0.822 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 12618

Ion	Ratio	Lower	Upper
105	100		
120	23.4	12.8	38.4

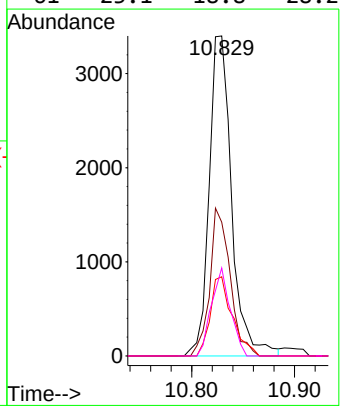


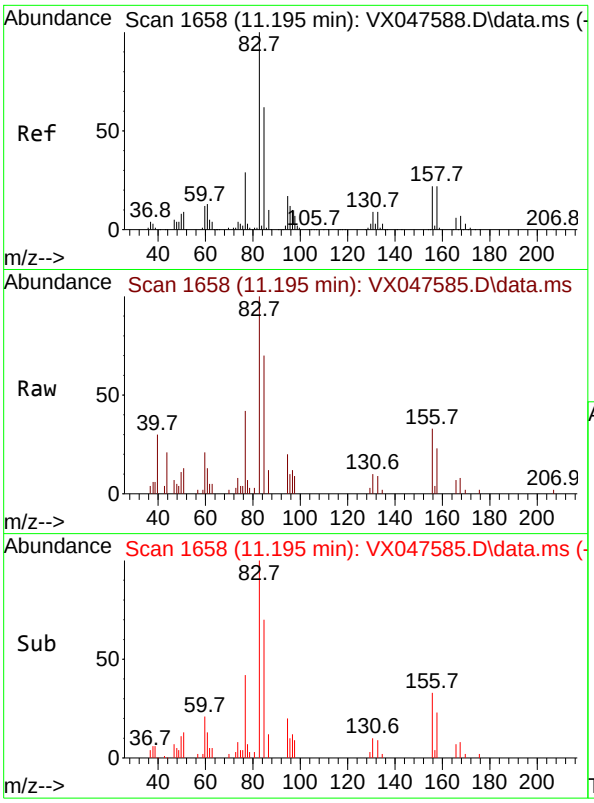


#74
N-amyl acetate
Concen: 0.737 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 5159

Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.0	48.0
55	24.3	18.9	28.3
61	23.1	18.8	28.2



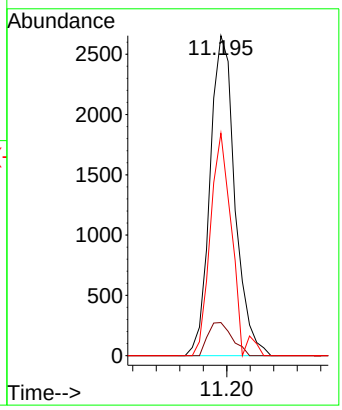


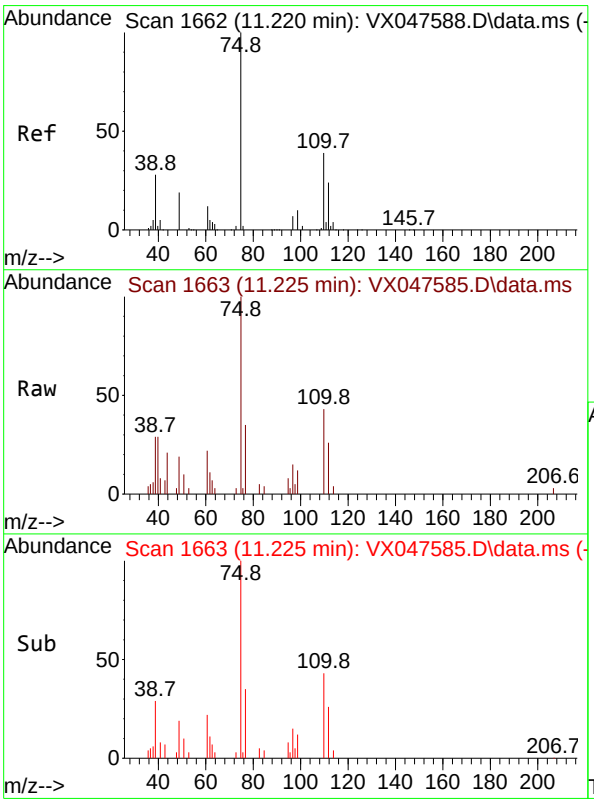
#75
1,1,2,2-Tetrachloroethane
Concen: 0.839 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 3900

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	59.8	31.6	95.0

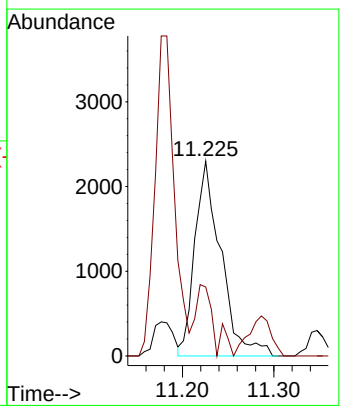


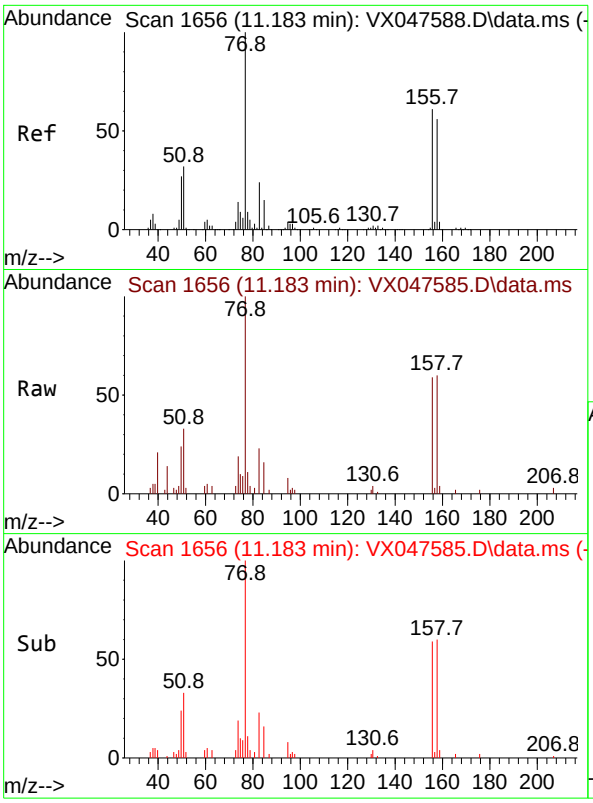


#76
1,2,3-Trichloropropane
Concen: 1.117 ug/l
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 4568

Ion	Ratio	Lower	Upper
75	100		
77	25.9	18.8	56.4



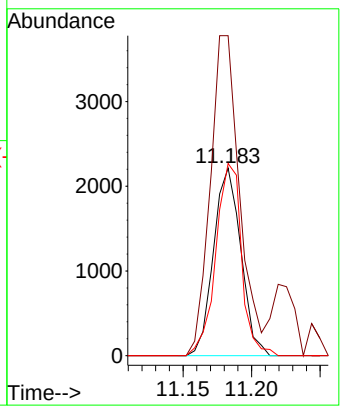


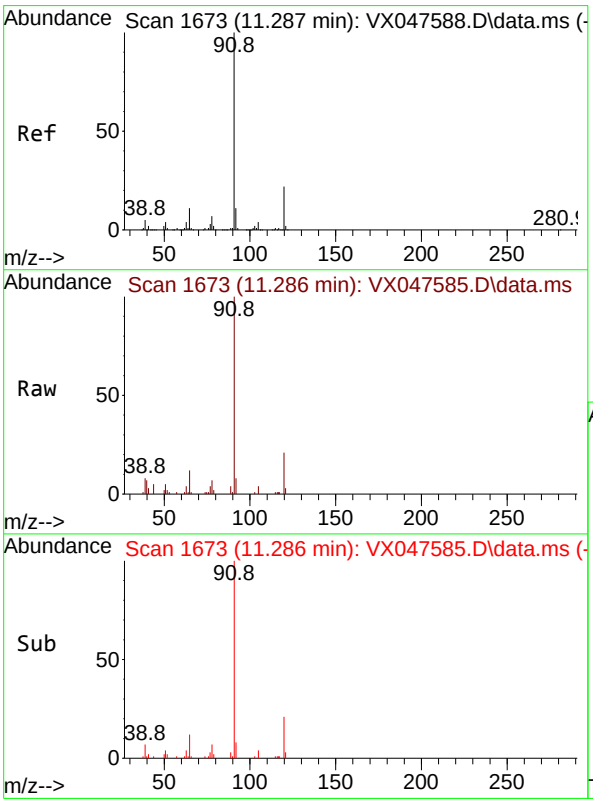
#77
Bromobenzene
Concen: 0.811 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 3069

Ion	Ratio	Lower	Upper
156	100		
77	182.3	89.7	269.1
158	96.6	47.9	143.6

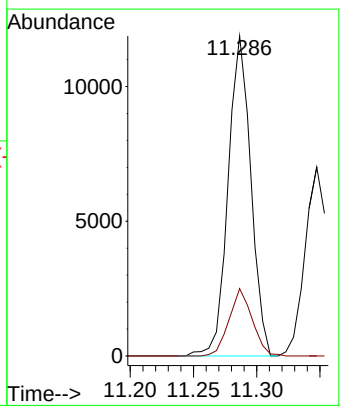


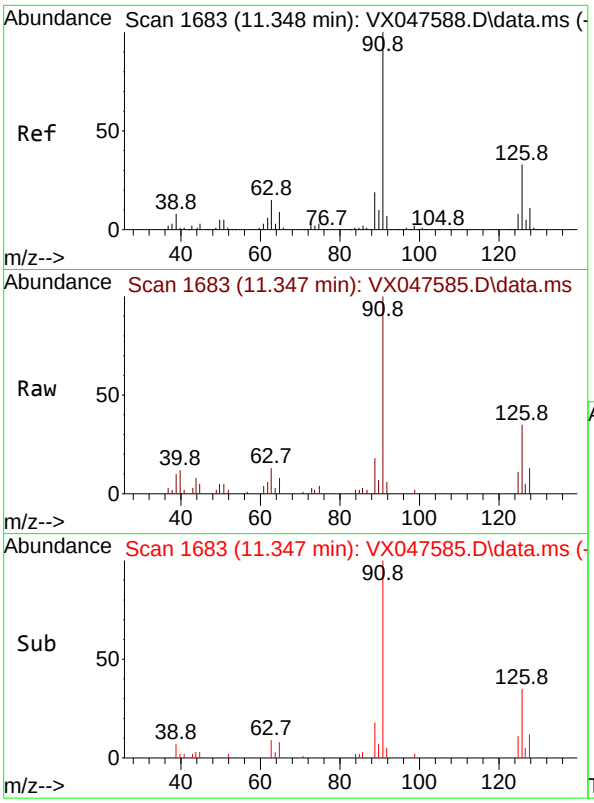


#78
n-propylbenzene
Concen: 0.819 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 14866

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.1



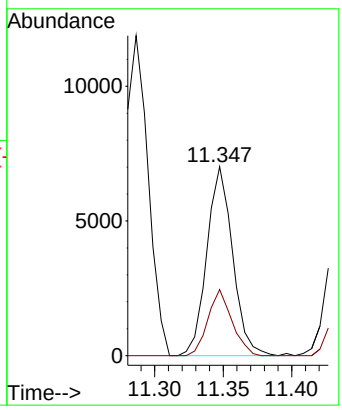


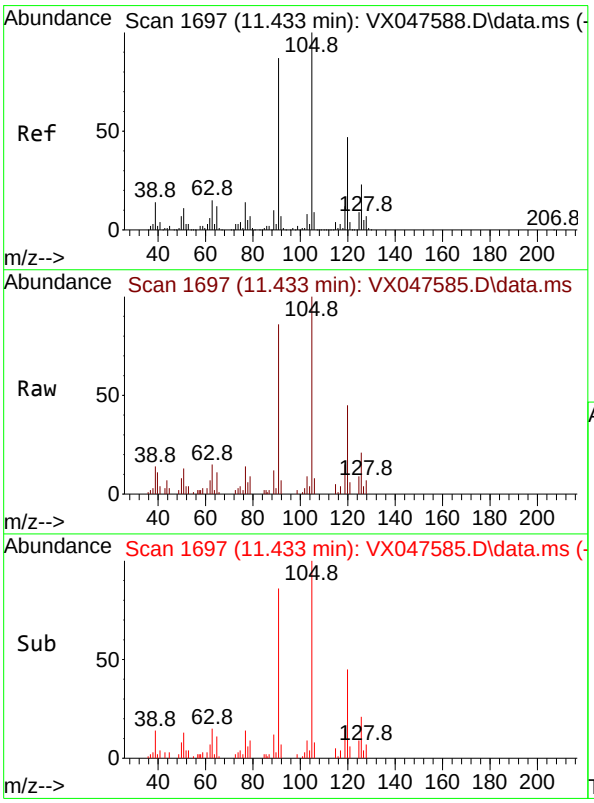
#79
2-Chlorotoluene
Concen: 0.827 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 9195

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3

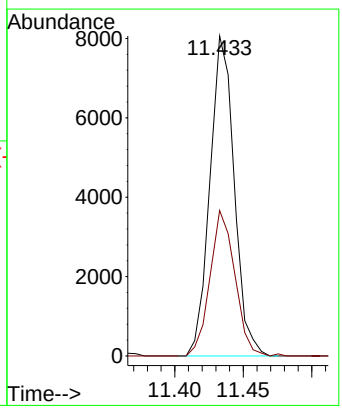


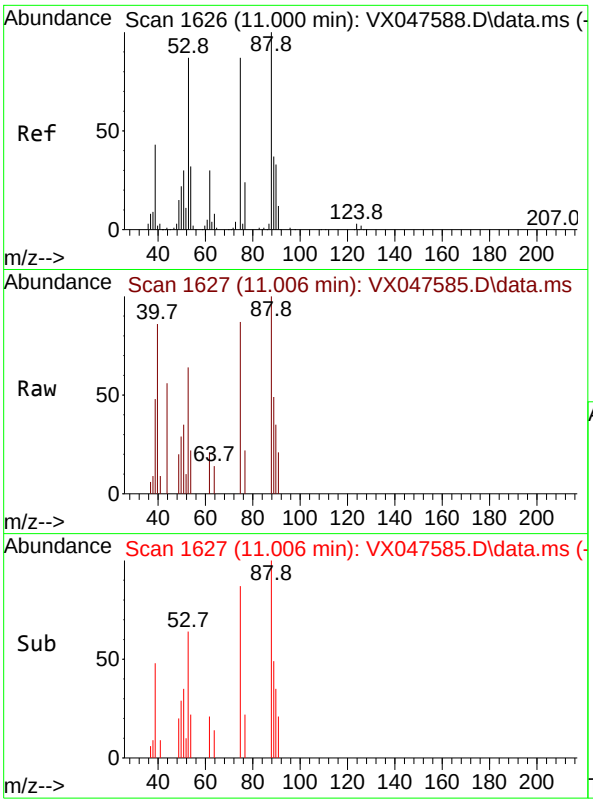


#80
1,3,5-Trimethylbenzene
Concen: 0.787 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 9929

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.6	70.8



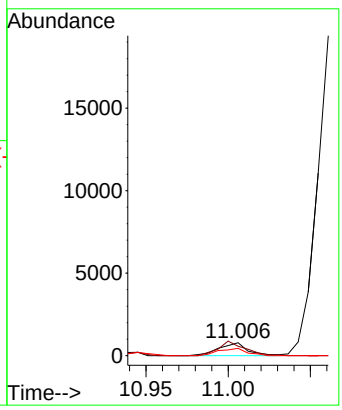


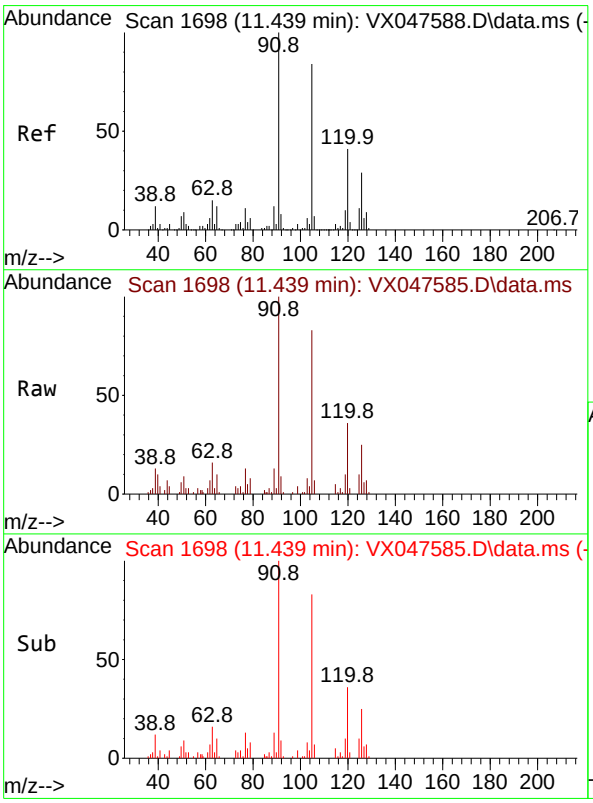
#81
trans-1,4-Dichloro-2-butene
Concen: 0.599 ug/l
RT: 11.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 960

Ion	Ratio	Lower	Upper
75	100		
53	103.2	83.4	125.2
89	55.2	36.3	54.5#

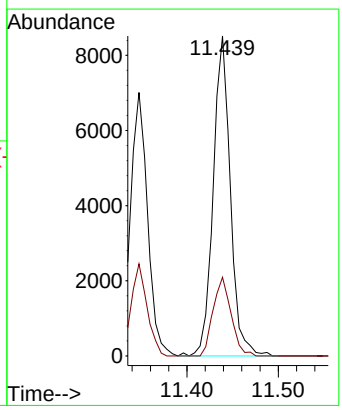


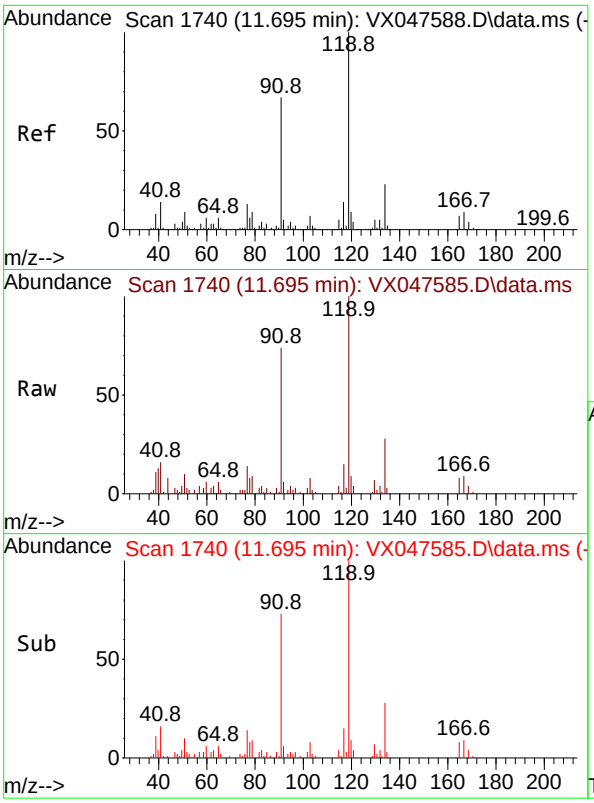


#82
4-Chlorotoluene
Concen: 0.847 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 11123

Ion	Ratio	Lower	Upper
91	100		
126	25.8	14.2	42.6



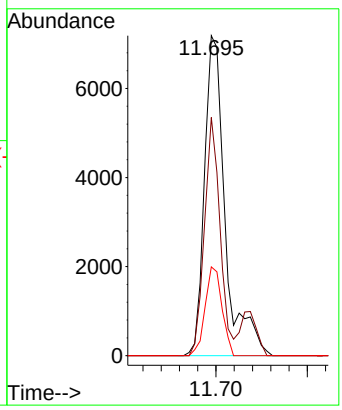


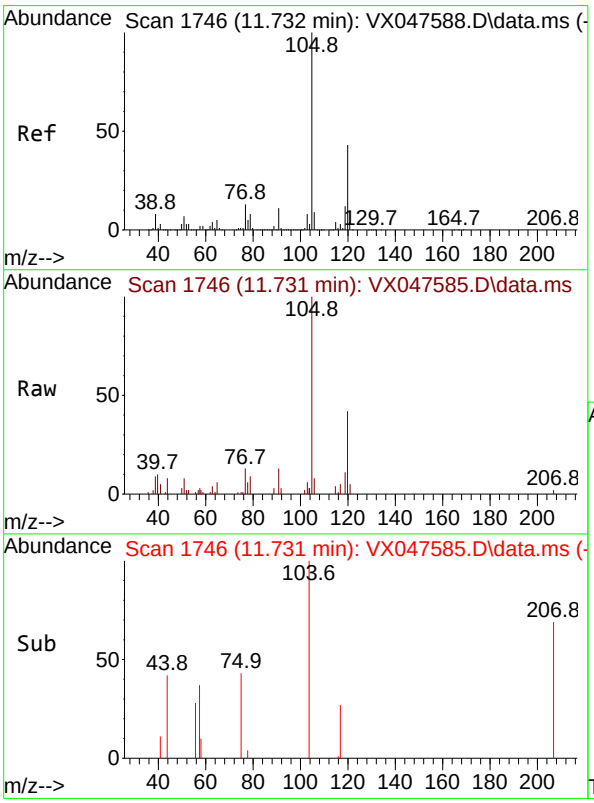
#83
tert-Butylbenzene
Concen: 0.876 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 11311

Ion	Ratio	Lower	Upper
119	100		
91	56.1	29.6	88.8
134	22.5	11.0	33.0

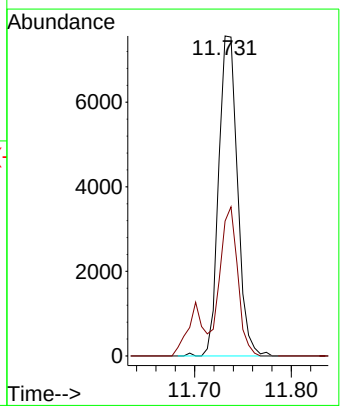


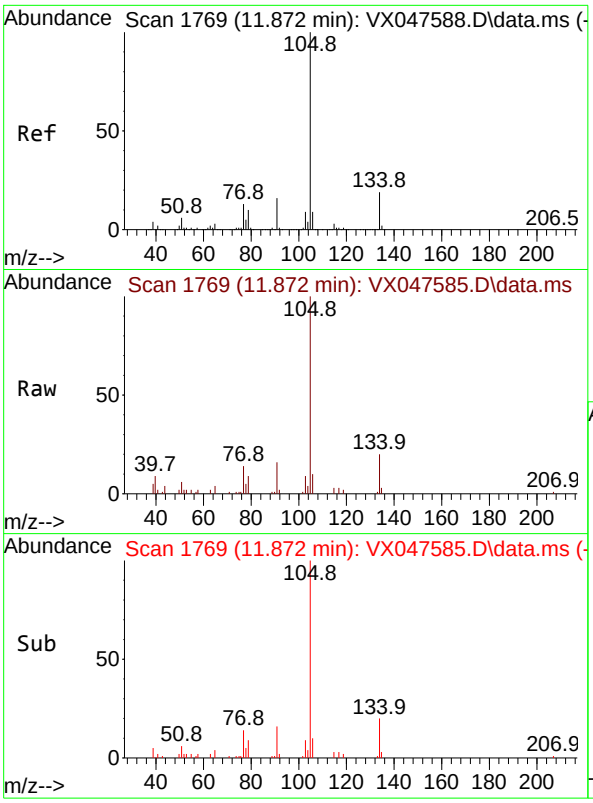


#84
1,2,4-Trimethylbenzene
Concen: 0.796 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 10187

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1



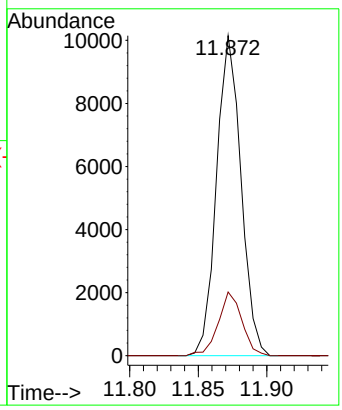


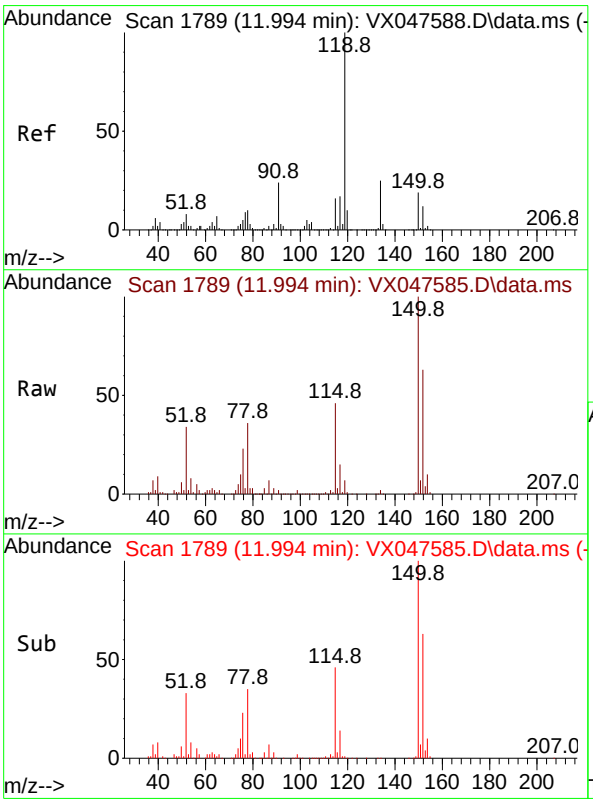
#85
sec-Butylbenzene
Concen: 0.819 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 12561

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.5

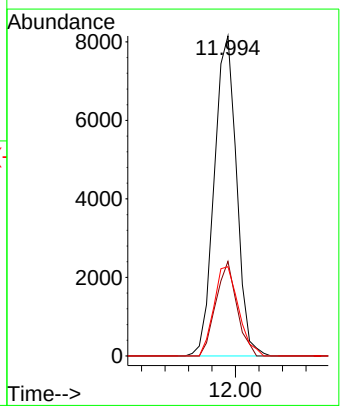


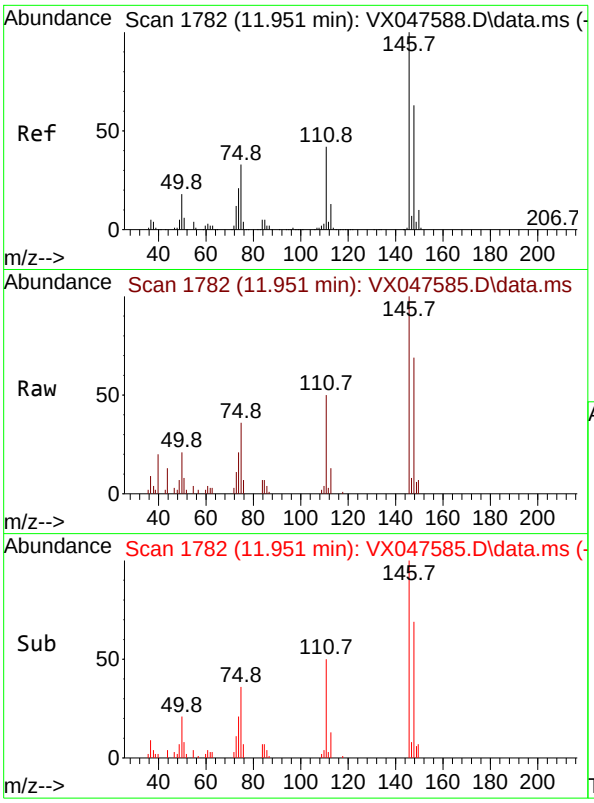


#86
p-Isopropyltoluene
Concen: 0.827 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:119 Resp: 10744

Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.6	37.8
91	30.8	12.6	37.6



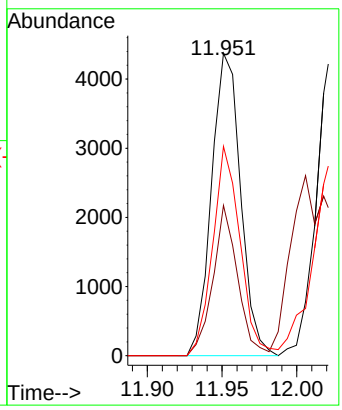


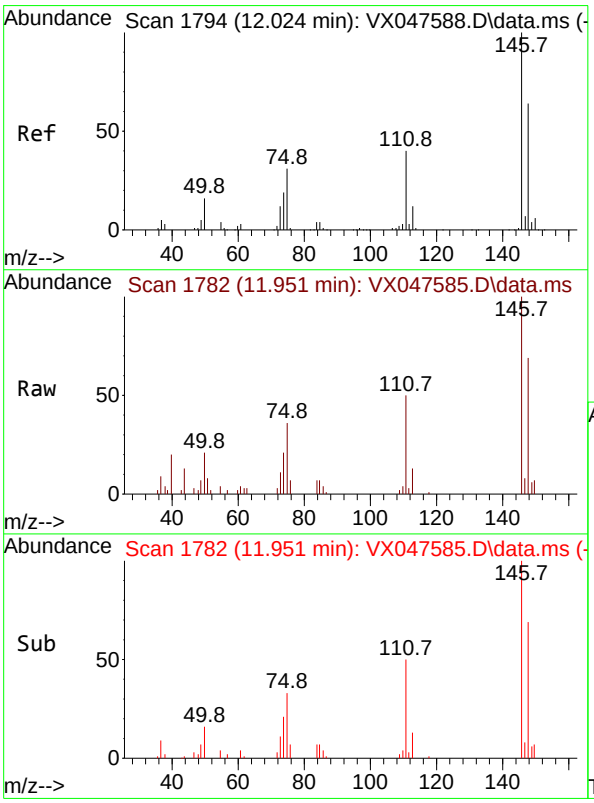
#87
1,3-Dichlorobenzene
Concen: 0.841 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 5907

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	65.5	32.0	96.0

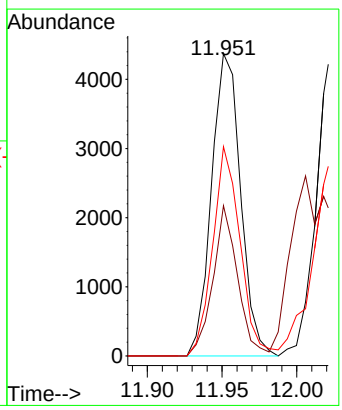


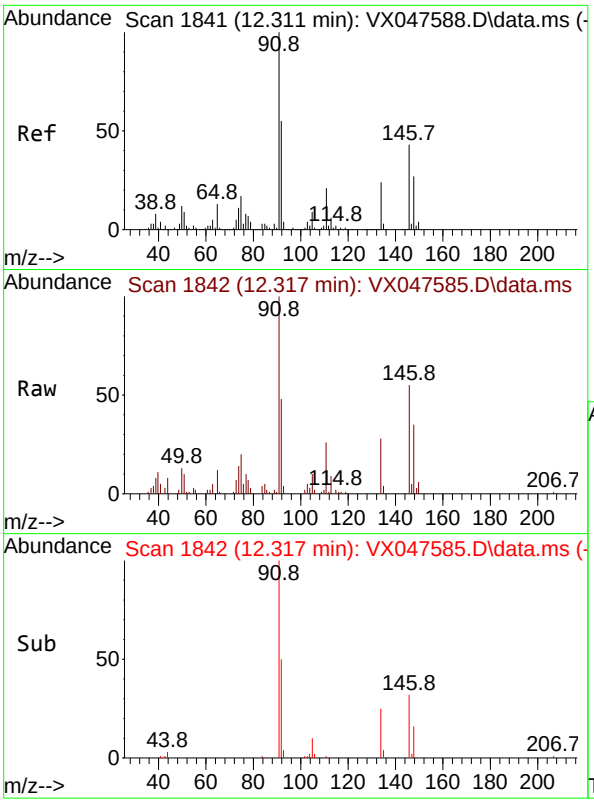


#88
1,4-Dichlorobenzene
Concen: 0.819 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. -0.073 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 5907

Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.8	62.4
148	65.5	31.7	95.1



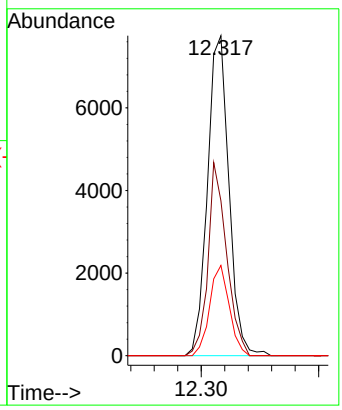


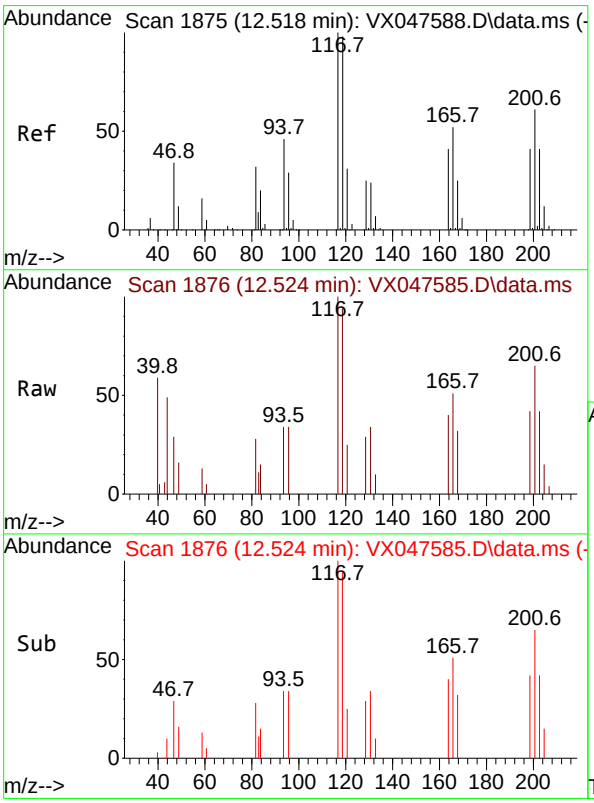
#89
n-Butylbenzene
Concen: 0.816 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 9811

Ion	Ratio	Lower	Upper
91	100		
92	52.4	27.6	82.7
134	25.9	12.6	37.8

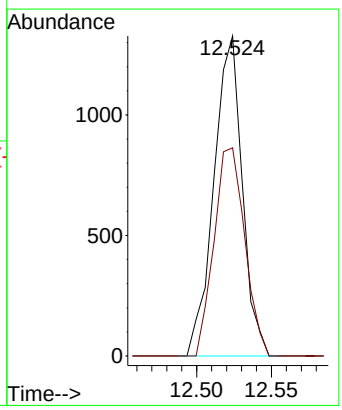


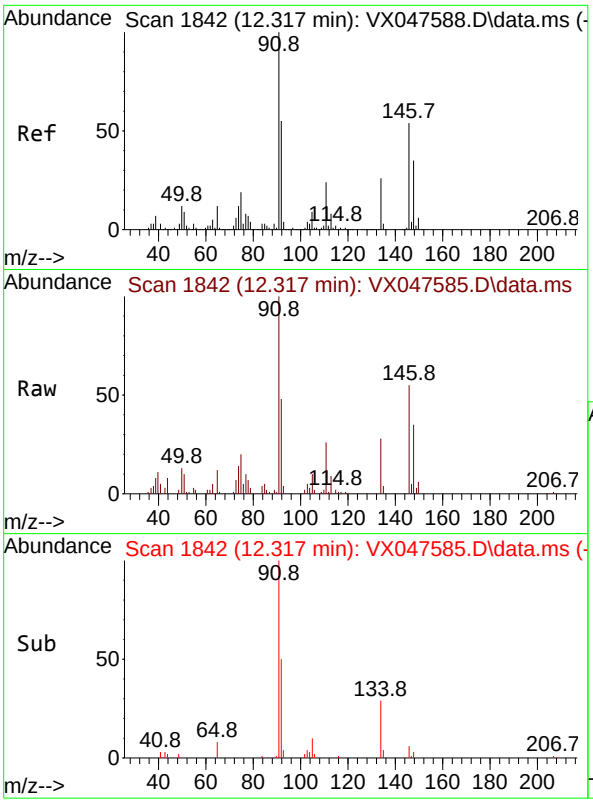


#90
Hexachloroethane
Concen: 0.768 ug/l
RT: 12.524 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 1752

Ion	Ratio	Lower	Upper
117	100		
201	70.4	34.2	102.5



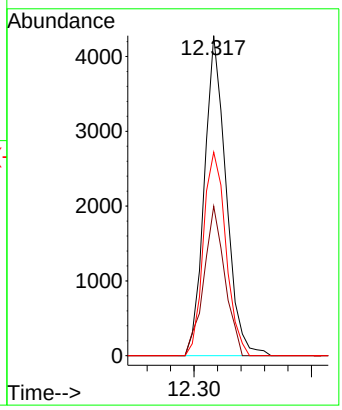


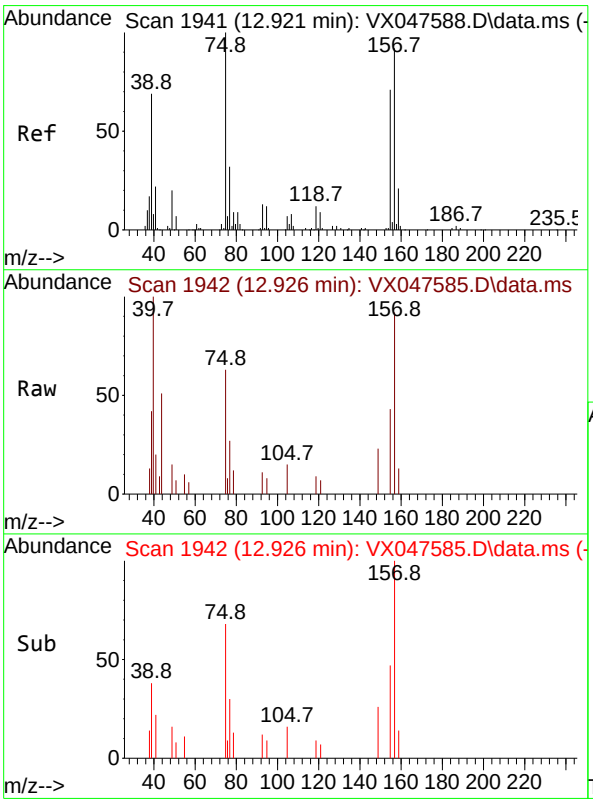
#91
1,2-Dichlorobenzene
Concen: 0.820 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 5491

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.2	66.6
148	65.8	31.8	95.4

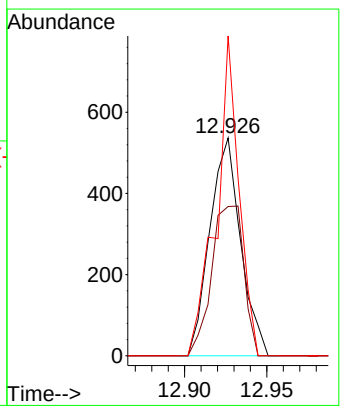


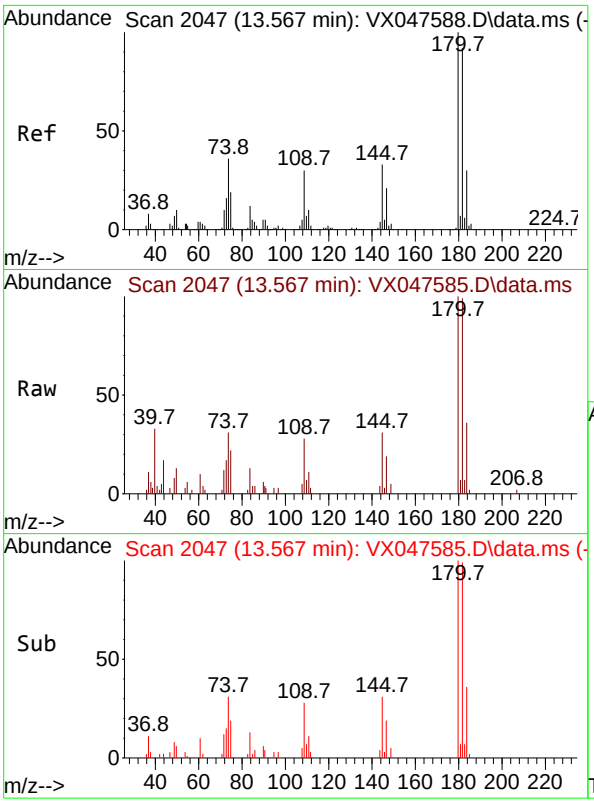


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.742 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 698

Ion	Ratio	Lower	Upper
75	100		
155	72.1	37.7	113.1
157	108.7	49.8	149.4



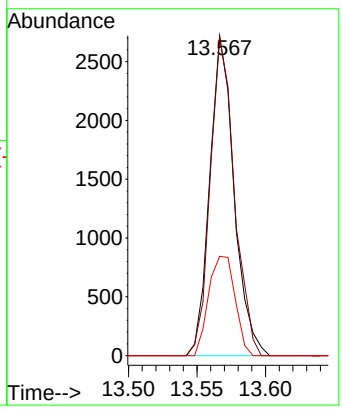


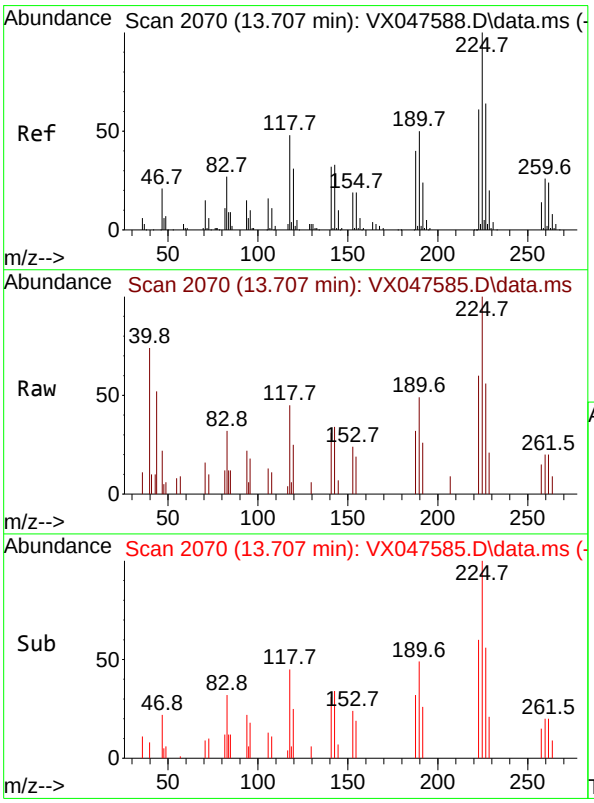
#93
1,2,4-Trichlorobenzene
Concen: 0.772 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 3358

Ion	Ratio	Lower	Upper
180	100		
182	98.6	46.6	139.8
145	33.7	16.4	49.1

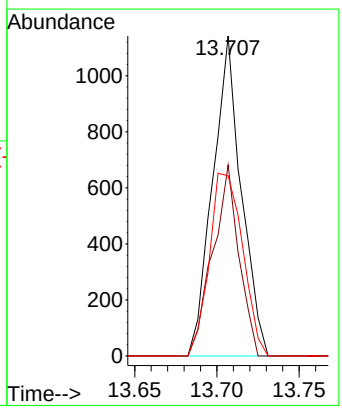


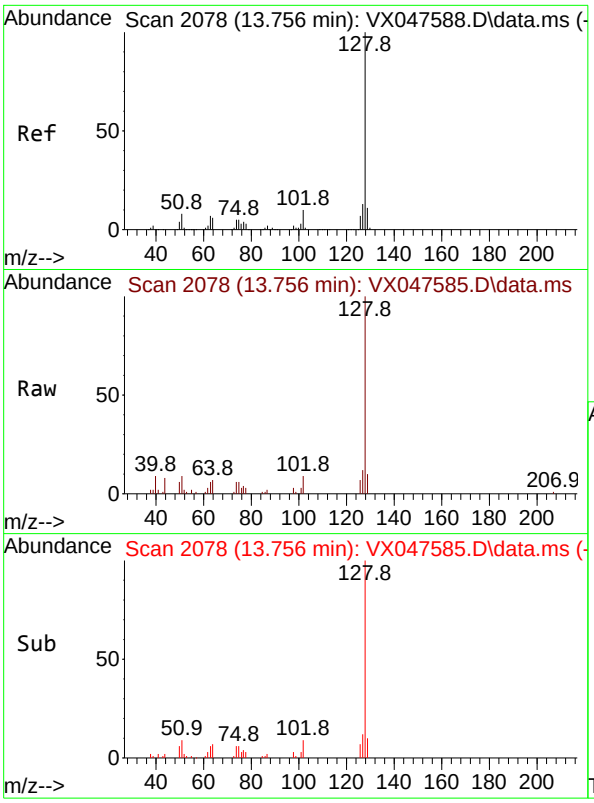


#94
Hexachlorobutadiene
Concen: 0.933 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:225 Resp: 1378

Ion	Ratio	Lower	Upper
225	100		
223	54.8	31.7	95.1
227	66.7	32.0	96.0



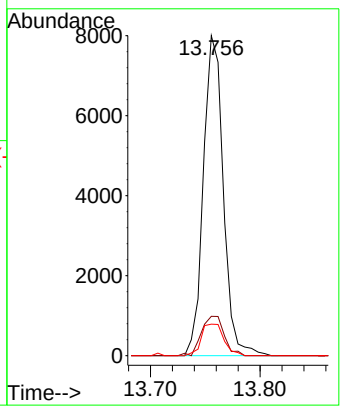


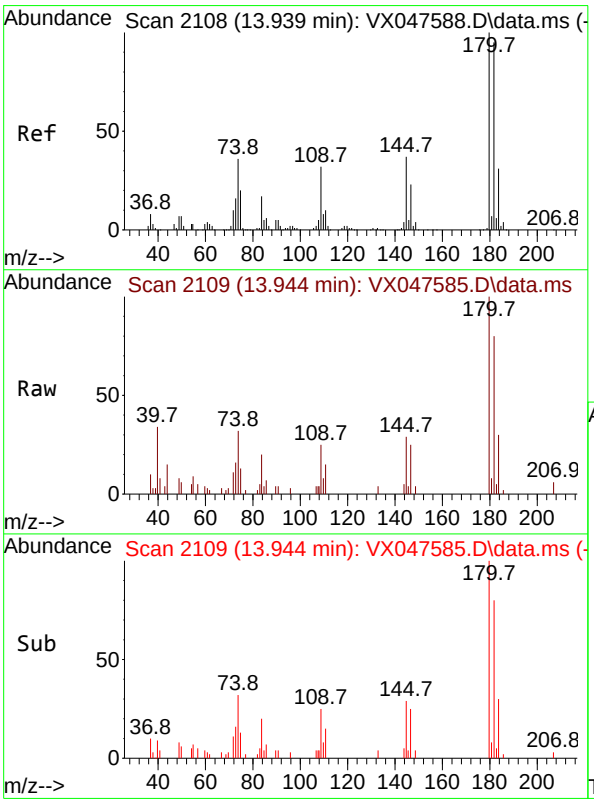
#95
Naphthalene
Concen: 0.763 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 10112

Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.2	15.2
129	11.2	8.8	13.2

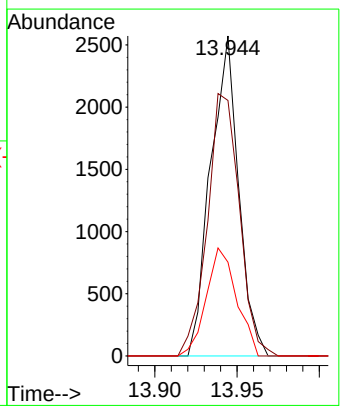




#96
1,2,3-Trichlorobenzene
Concen: 0.752 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:180 Resp: 3043

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.6	142.8
145	36.6	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Sep 22 01:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	198376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	355026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	317288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	156219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	17538	5.554	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	11.100%#		
35) Dibromofluoromethane	5.373	113	12647	5.312	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.620%#		
50) Toluene-d8	8.635	98	43926	5.332	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.660%#		
62) 4-Bromofluorobenzene	11.061	95	16974	5.429	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.860%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	11403	5.551	ug/l	93
3) Chloromethane	1.301	50	14854	5.502	ug/l	99
4) Vinyl Chloride	1.380	62	14147	5.353	ug/l	97
5) Bromomethane	1.618	94	9780	5.836	ug/l	87
6) Chloroethane	1.697	64	8926	5.053	ug/l	96
7) Trichlorofluoromethane	1.898	101	20497	5.223	ug/l	100
8) Diethyl Ether	2.136	74	8039	5.008	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	11729	5.112	ug/l	98
10) Methyl Iodide	2.453	142	17159	4.795	ug/l	98
11) Tert butyl alcohol	2.947	59	8399	23.883	ug/l	99
12) 1,1-Dichloroethene	2.325	96	12131	5.147	ug/l	91
13) Acrolein	2.239	56	7080	21.847	ug/l	95
14) Allyl chloride	2.666	41	25135	5.168	ug/l	99
15) Acrylonitrile	3.062	53	32587	25.016	ug/l	99
16) Acetone	2.374	43	41297	30.079	ug/l	97
17) Carbon Disulfide	2.514	76	34426	5.335	ug/l	100
18) Methyl Acetate	2.703	43	13357	4.371	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	44396	5.160	ug/l	98
20) Methylene Chloride	2.788	84	15307	5.267	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	13937	5.492	ug/l	97
22) Diisopropyl ether	3.757	45	50213	5.327	ug/l	98
23) Vinyl Acetate	3.715	43	192175	25.474	ug/l	99
24) 1,1-Dichloroethane	3.611	63	26292	5.248	ug/l	97
25) 2-Butanone	4.544	43	46651	27.240	ug/l	92
26) 2,2-Dichloropropane	4.465	77	21738	5.220	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	15996	5.147	ug/l	98
28) Bromochloromethane	4.891	49	12047	5.508	ug/l	95
29) Tetrahydrofuran	4.995	42	26729	25.944	ug/l	92
30) Chloroform	5.080	83	27054	5.344	ug/l	99
31) Cyclohexane	5.458	56	23032	5.520	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	22279	5.188	ug/l	96
36) 1,1-Dichloropropene	5.684	75	18455	5.304	ug/l	98
37) Ethyl Acetate	4.708	43	19913	5.345	ug/l #	97
38) Carbon Tetrachloride	5.666	117	20376	5.390	ug/l	96
39) Methylcyclohexane	7.367	83	20900	5.292	ug/l	97
40) Benzene	6.019	78	55996	5.299	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Sep 22 01:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	9390	4.883	ug/l		95
42) 1,2-Dichloroethane	6.074	62	21117	5.252	ug/l		99
43) Isopropyl Acetate	6.324	43	31304	5.124	ug/l		99
44) Trichloroethene	7.111	130	13576	5.314	ug/l		97
45) 1,2-Dichloropropane	7.415	63	14305	5.287	ug/l		99
46) Dibromomethane	7.568	93	10133	5.146	ug/l		99
47) Bromodichloromethane	7.806	83	21270	5.235	ug/l		99
48) Methyl methacrylate	7.677	41	14959	4.915	ug/l		99
49) 1,4-Dioxane	7.653	88	3017	98.096	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.555	43	87492	25.828	ug/l		100
52) Toluene	8.702	92	34314	5.271	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	20863	5.034	ug/l		97
54) cis-1,3-Dichloropropene	8.354	75	23157	5.227	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	12968	5.166	ug/l		91
56) Ethyl methacrylate	9.104	69	19980	5.068	ug/l		97
57) 1,3-Dichloropropane	9.293	76	22989	5.331	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	37585	27.899	ug/l		98
59) 2-Hexanone	9.415	43	66356	27.275	ug/l		99
60) Dibromochloromethane	9.506	129	14705	5.084	ug/l		95
61) 1,2-Dibromoethane	9.592	107	13461	5.264	ug/l		98
64) Tetrachloroethene	9.256	164	11228	5.428	ug/l		97
65) Chlorobenzene	10.061	112	37507	5.203	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.147	131	12807	5.149	ug/l		99
67) Ethyl Benzene	10.177	91	65908	5.299	ug/l		100
68) m/p-Xylenes	10.287	106	49132	10.613	ug/l		99
69) o-Xylene	10.628	106	23300	5.204	ug/l		98
70) Styrene	10.640	104	40872	5.210	ug/l		99
71) Bromoform	10.781	173	9298	5.006	ug/l	#	97
73) Isopropylbenzene	10.945	105	61029	5.139	ug/l		100
74) N-amyl acetate	10.823	43	26969	4.980	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	18462	5.138	ug/l		98
76) 1,2,3-Trichloropropane	11.220	75	18494	5.847	ug/l		96
77) Bromobenzene	11.183	156	15066	5.150	ug/l		99
78) n-propylbenzene	11.287	91	72900	5.192	ug/l		100
79) 2-Chlorotoluene	11.348	91	44663	5.194	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	50535	5.179	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	5413	4.364	ug/l		91
82) 4-Chlorotoluene	11.439	91	52294	5.149	ug/l		100
83) tert-Butylbenzene	11.695	119	50350	5.041	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	51583	5.214	ug/l		100
85) sec-Butylbenzene	11.872	105	62507	5.268	ug/l		99
86) p-Isopropyltoluene	11.994	119	52674	5.244	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	28116	5.175	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	29519	5.294	ug/l		93
89) n-Butylbenzene	12.317	91	47953	5.159	ug/l		99
90) Hexachloroethane	12.518	117	8830	5.007	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	26409	5.102	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	3412	4.690	ug/l		99
93) 1,2,4-Trichlorobenzene	13.567	180	17167	5.103	ug/l		98
94) Hexachlorobutadiene	13.707	225	5894	5.158	ug/l		99
95) Naphthalene	13.756	128	49257	4.808	ug/l		99
96) 1,2,3-Trichlorobenzene	13.939	180	15400	4.921	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Sep 22 01:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

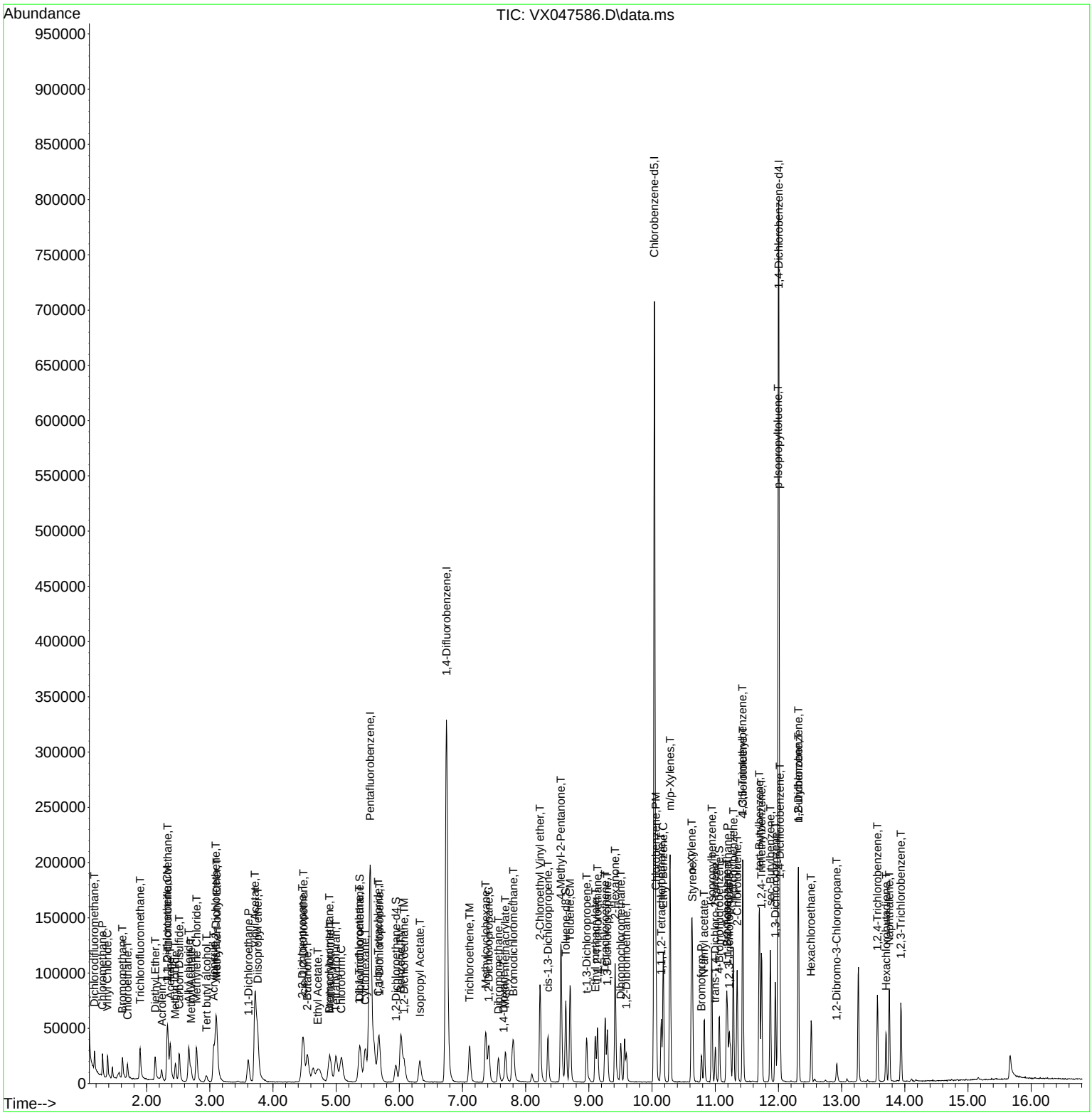
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

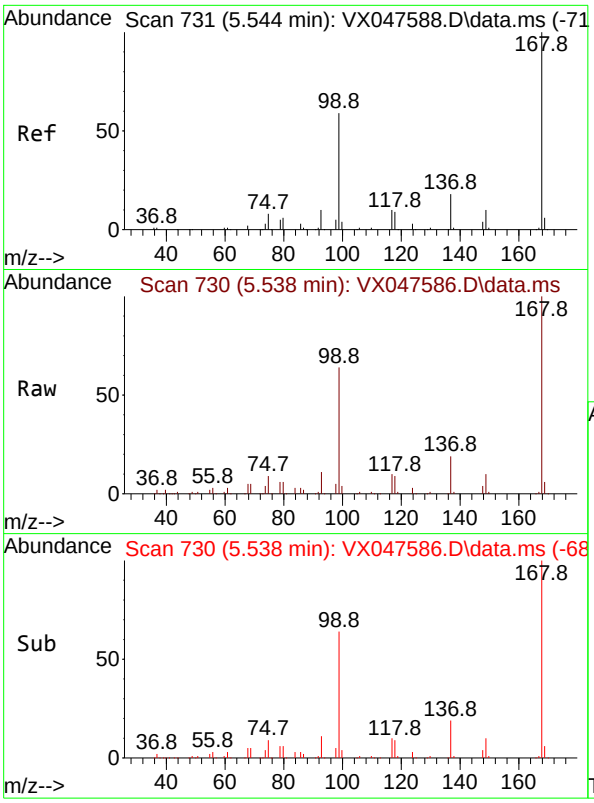
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Sep 22 01:48:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



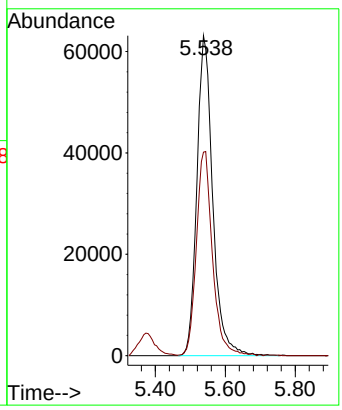


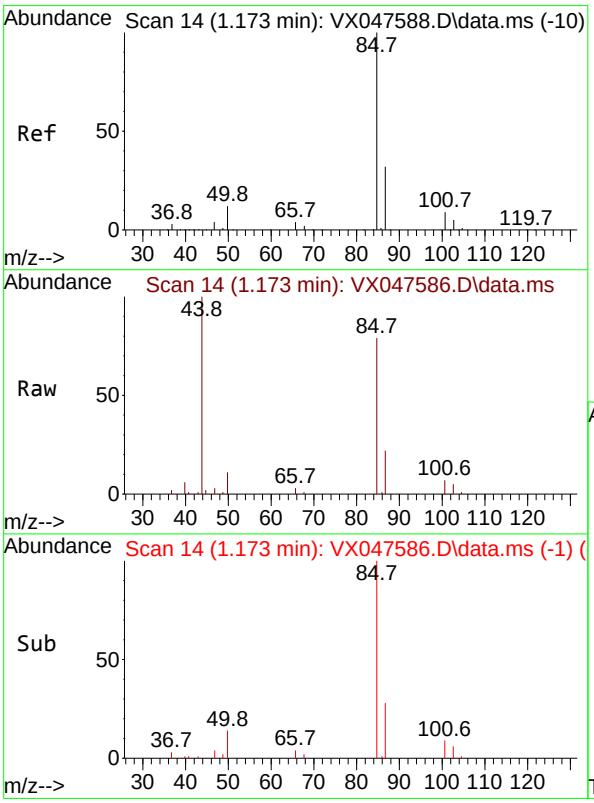
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 198376

Ion	Ratio	Lower	Upper
168	100		
99	63.5	48.8	73.2

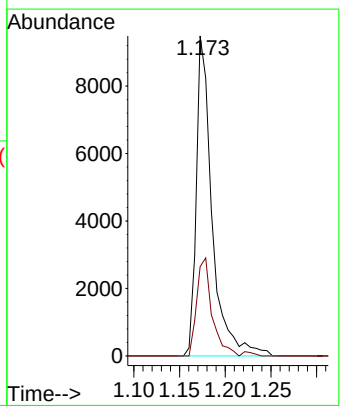


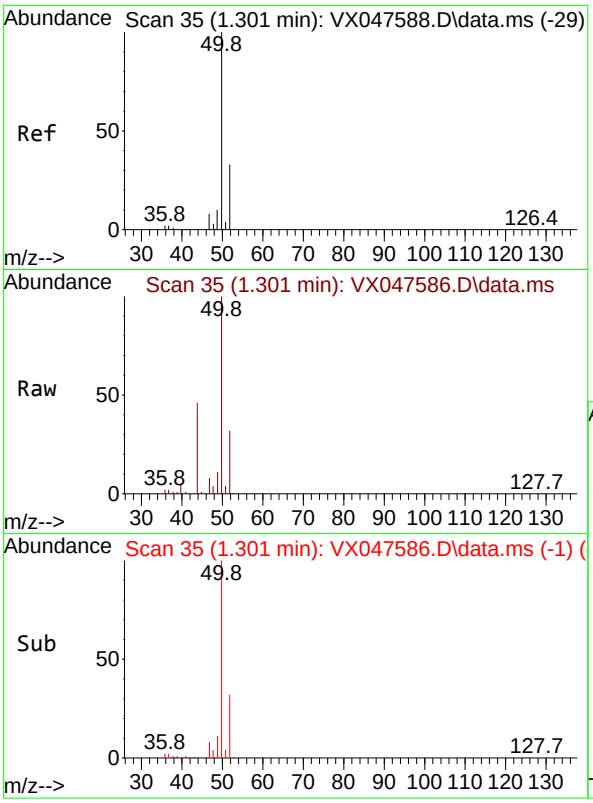


#2
Dichlorodifluoromethane
Concen: 5.551 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 85 Resp: 11403

Ion	Ratio	Lower	Upper
85	100		
87	27.9	15.8	47.3



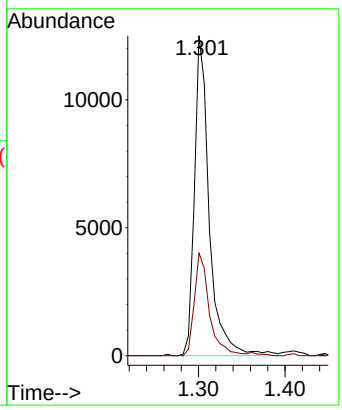


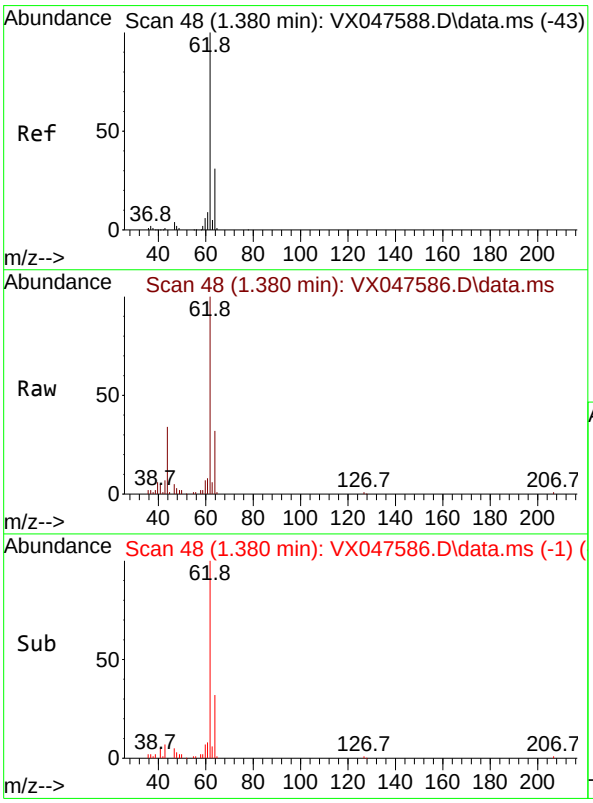
#3
Chloromethane
Concen: 5.502 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 14854

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.1	39.1

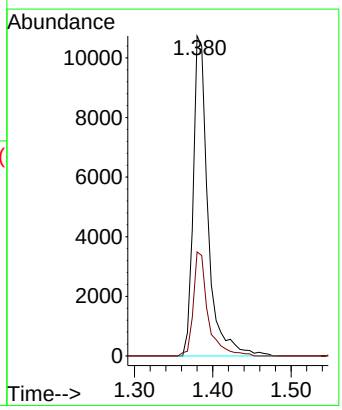


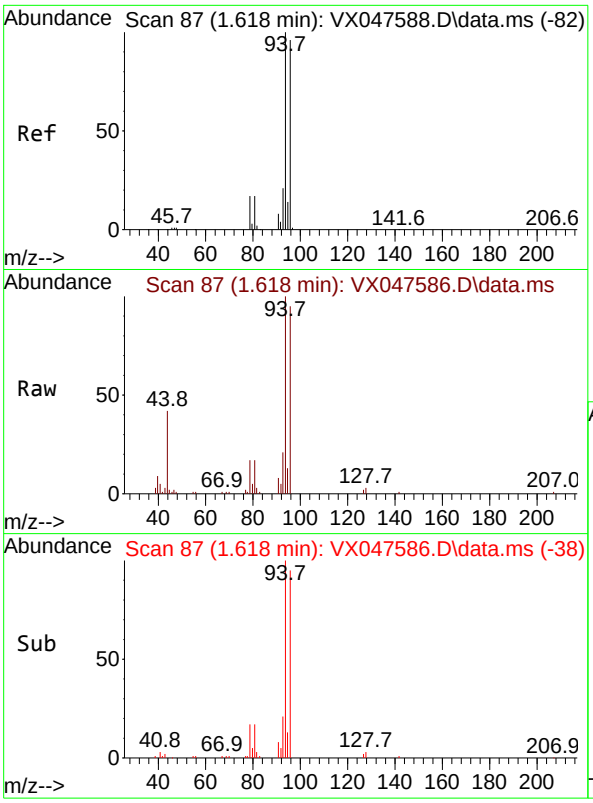


#4
Vinyl Chloride
Concen: 5.353 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 14147

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.9	37.3



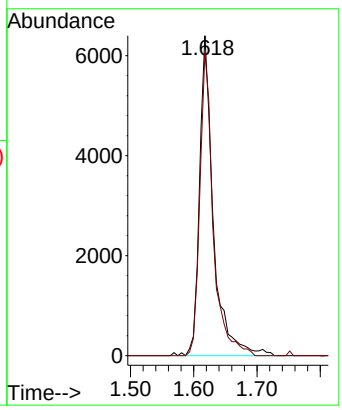


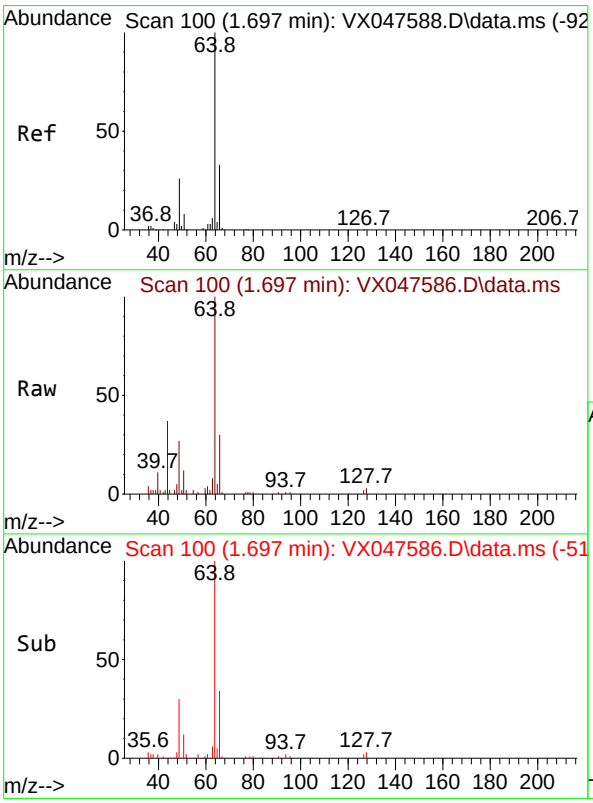
#5
Bromomethane
Concen: 5.836 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 9780

Ion	Ratio	Lower	Upper
94	100		
96	83.6	76.6	115.0

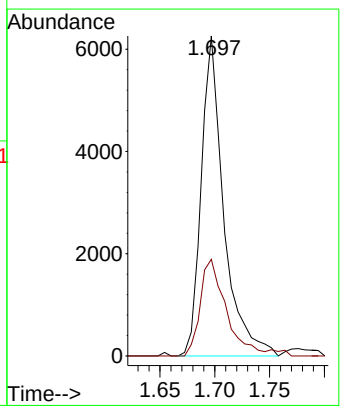


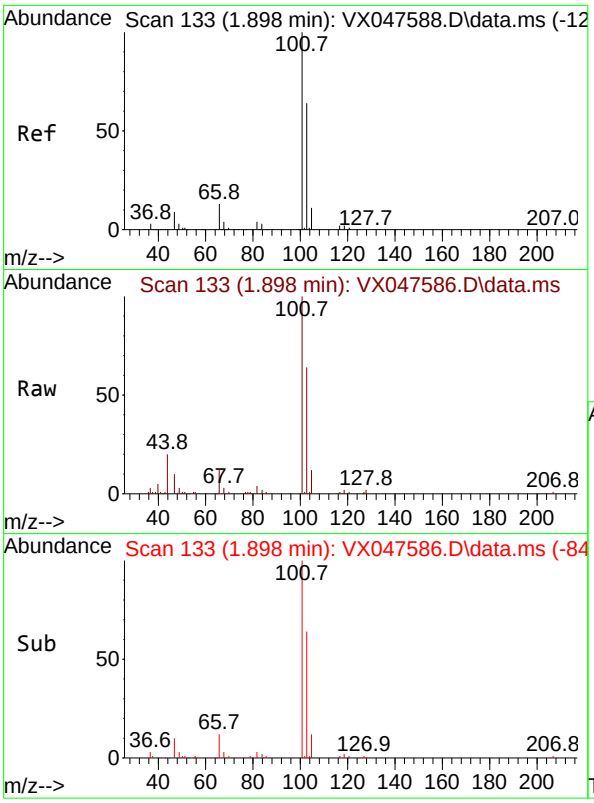


#6
Chloroethane
Concen: 5.053 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 64 Resp: 8926

Ion	Ratio	Lower	Upper
64	100		
66	30.2	26.1	39.1



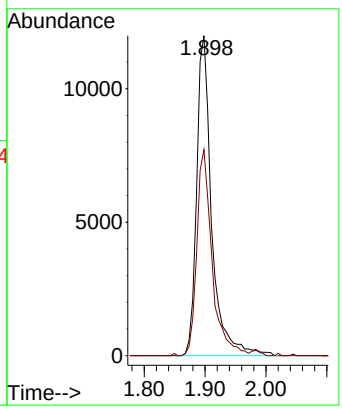


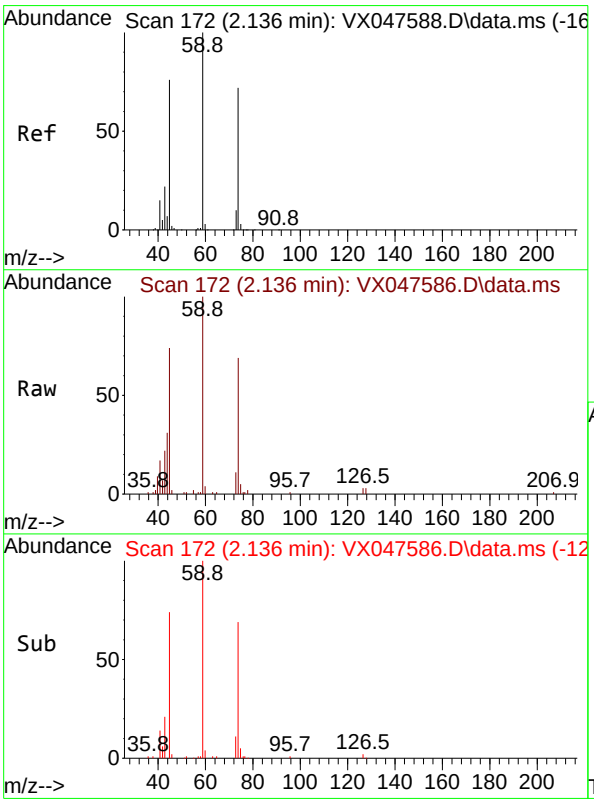
#7
Trichlorofluoromethane
Concen: 5.223 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 20497

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2

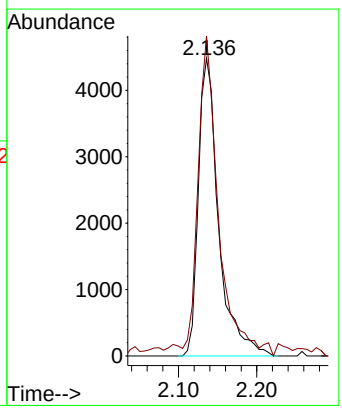


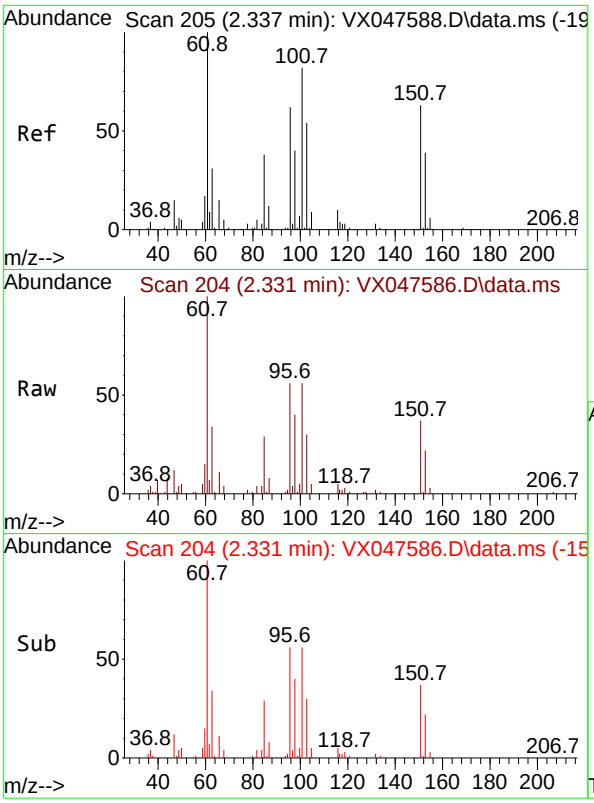


#8
Diethyl Ether
Concen: 5.008 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 74 Resp: 8039

Ion	Ratio	Lower	Upper
74	100		
45	111.7	52.3	156.8



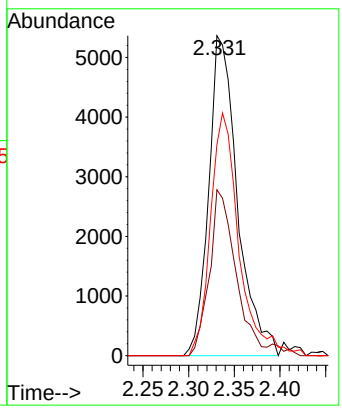


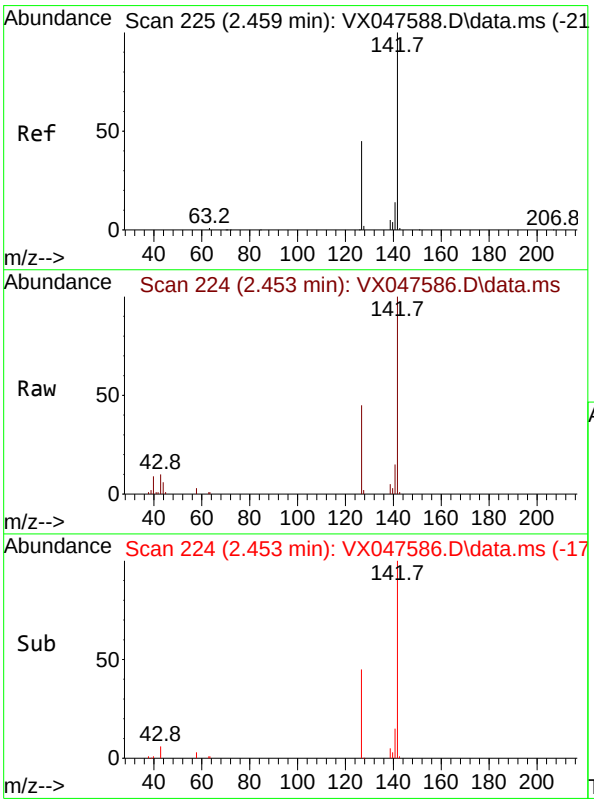
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.112 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 11729

Ion	Ratio	Lower	Upper
101	100		
85	47.5	35.5	53.3
151	75.0	59.4	89.0

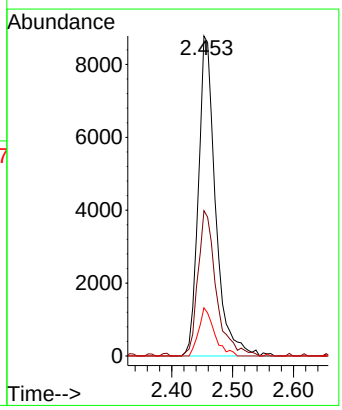


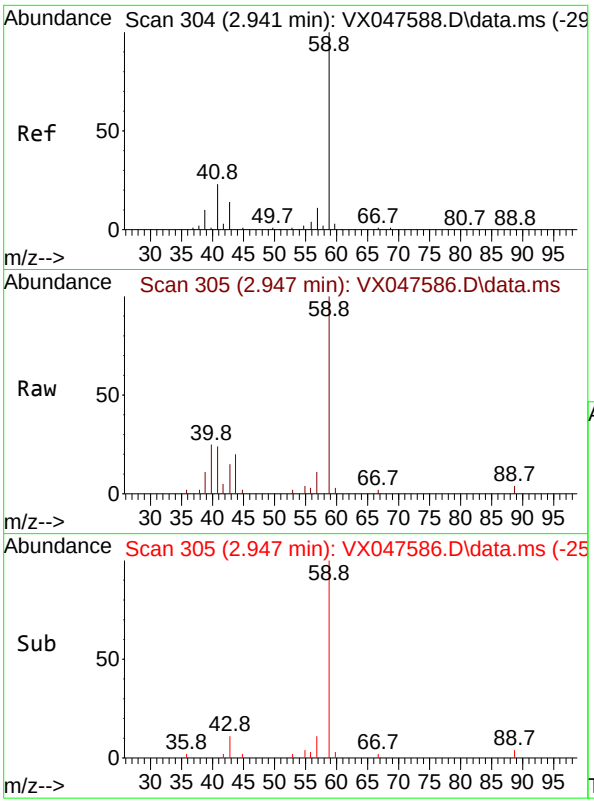


#10
Methyl Iodide
Concen: 4.795 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:142 Resp: 17159

Ion	Ratio	Lower	Upper
142	100		
127	48.4	37.2	55.8
141	13.8	11.4	17.0



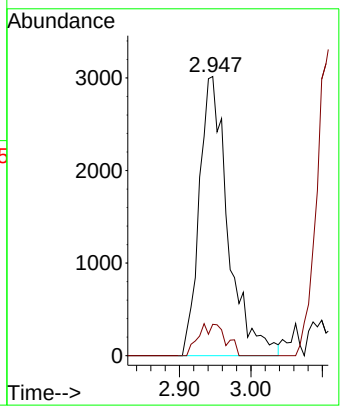


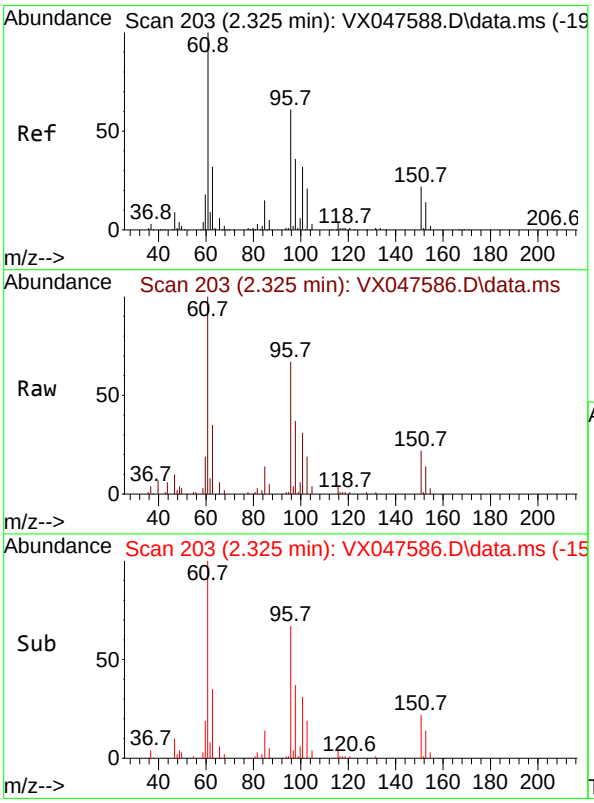
#11
Tert butyl alcohol
Concen: 23.883 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 8399

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.3	12.5

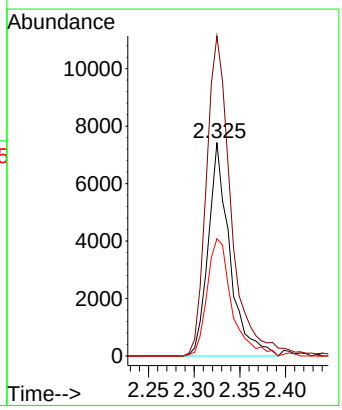


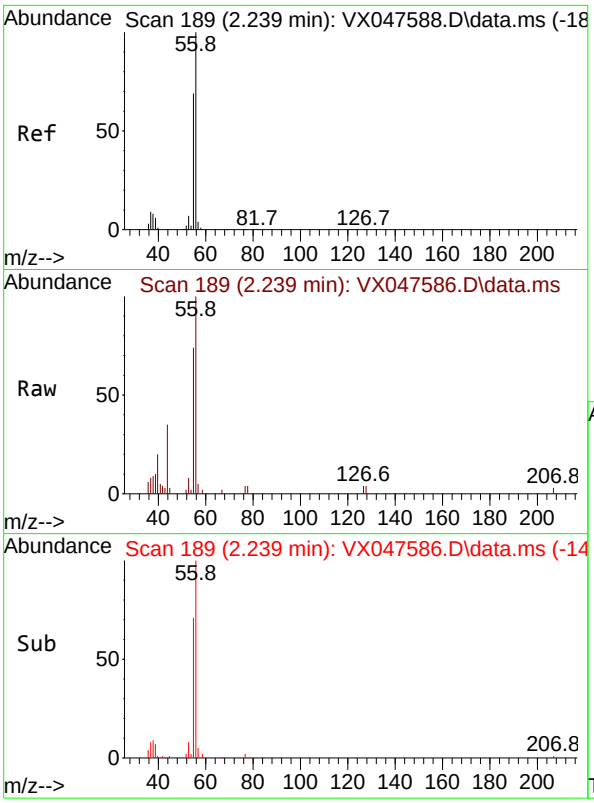


#12
1,1-Dichloroethene
Concen: 5.147 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 12131

Ion	Ratio	Lower	Upper
96	100		
61	149.9	131.0	196.6
98	54.9	47.7	71.5



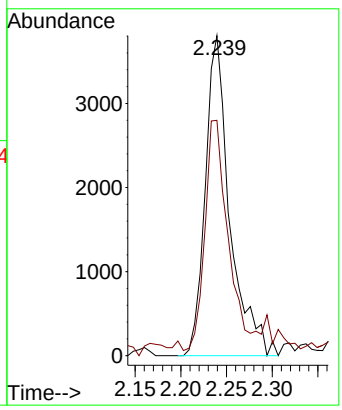


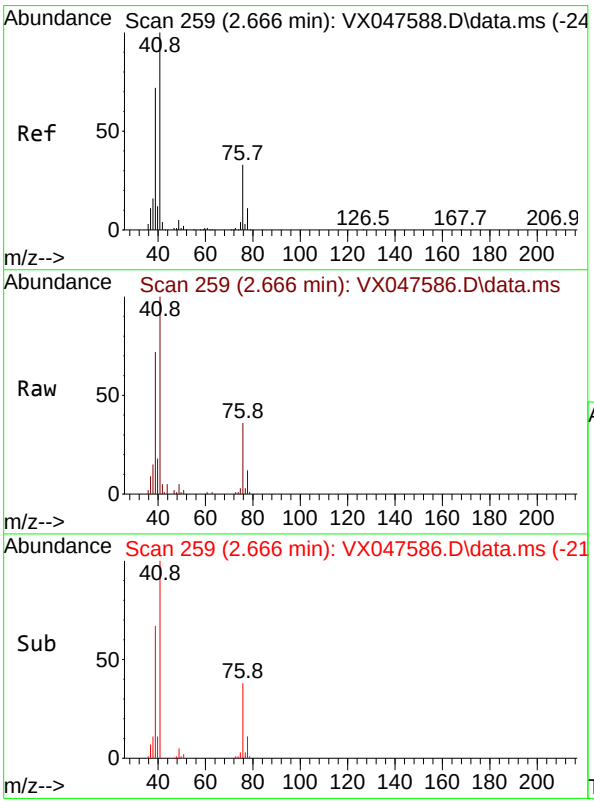
#13
Acrolein
Concen: 21.847 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 7080

Ion	Ratio	Lower	Upper
56	100		
55	67.1	57.2	85.8

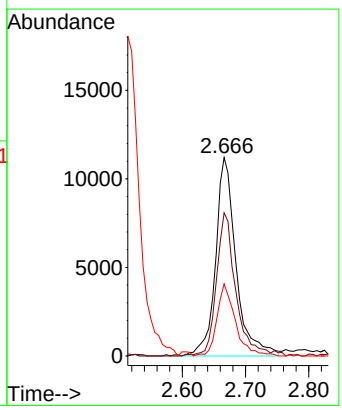


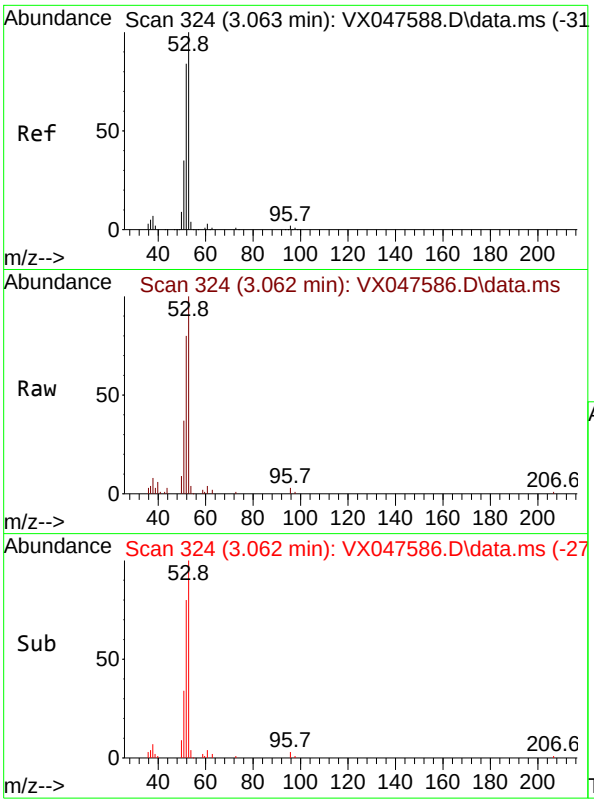


#14
Allyl chloride
Concen: 5.168 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 25135

Ion	Ratio	Lower	Upper
41	100		
39	69.1	54.7	82.1
76	32.4	25.7	38.5



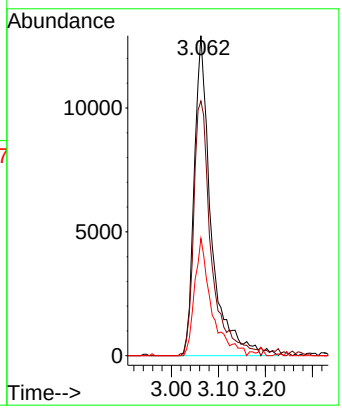


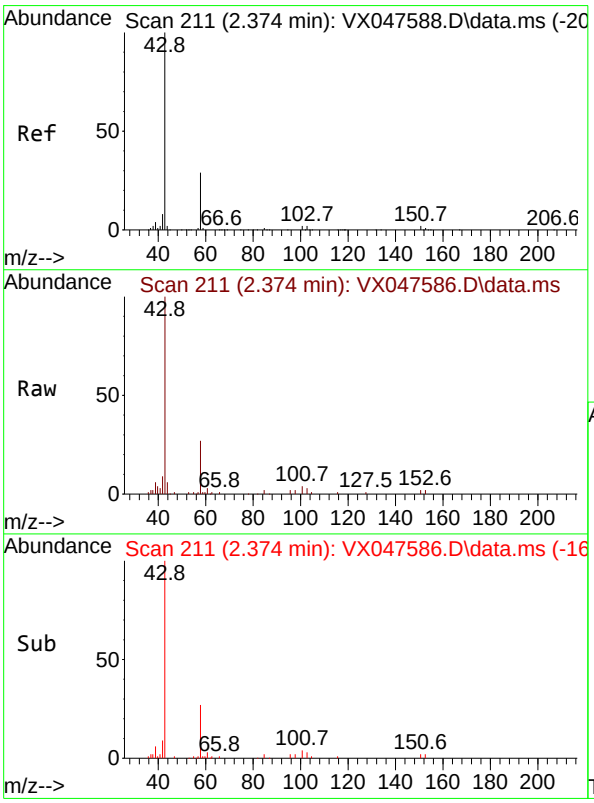
#15
Acrylonitrile
Concen: 25.016 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 32587

Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	36.5	29.5	44.3

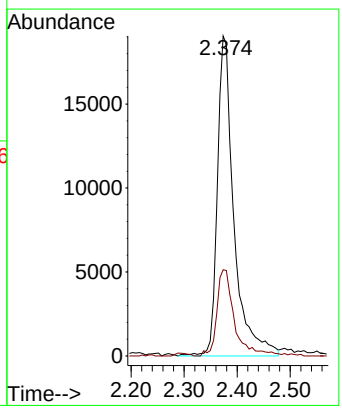


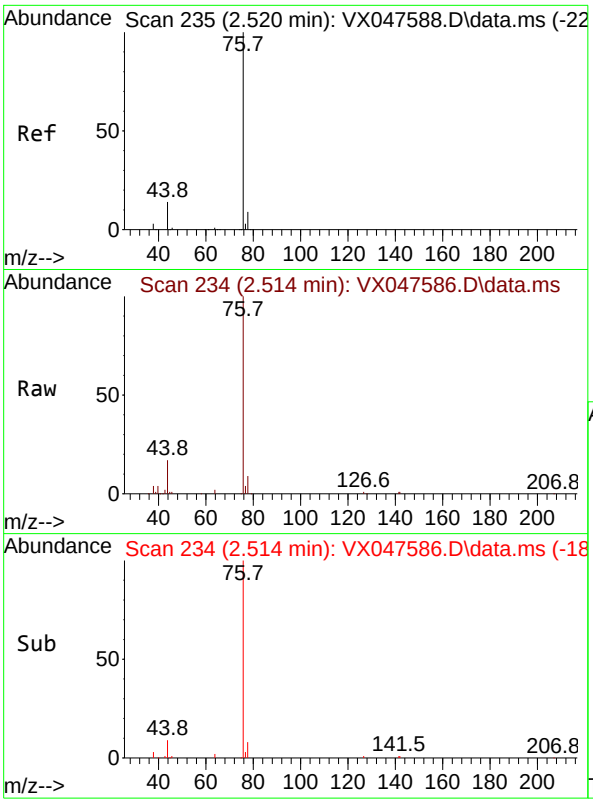


#16
Acetone
Concen: 30.079 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 41297

Ion	Ratio	Lower	Upper
43	100		
58	27.6	23.4	35.0



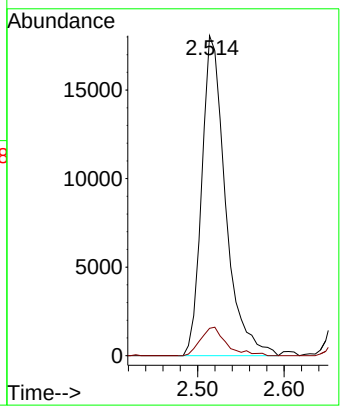


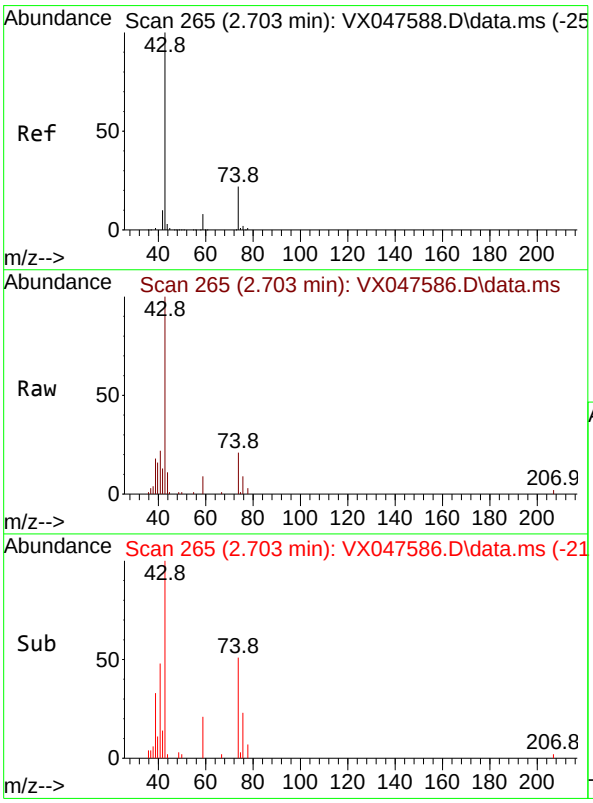
#17
Carbon Disulfide
Concen: 5.335 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 34426

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.8	10.2

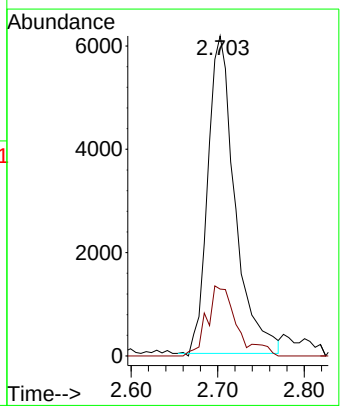


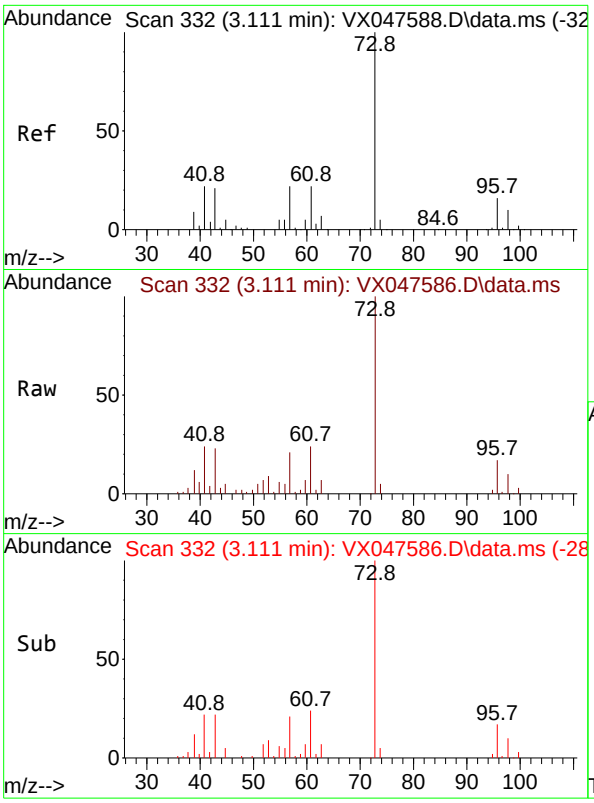


#18
Methyl Acetate
Concen: 4.371 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 13357

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.4	26.2



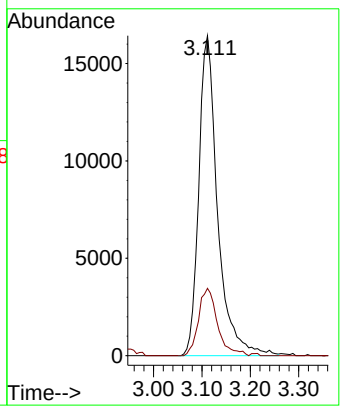


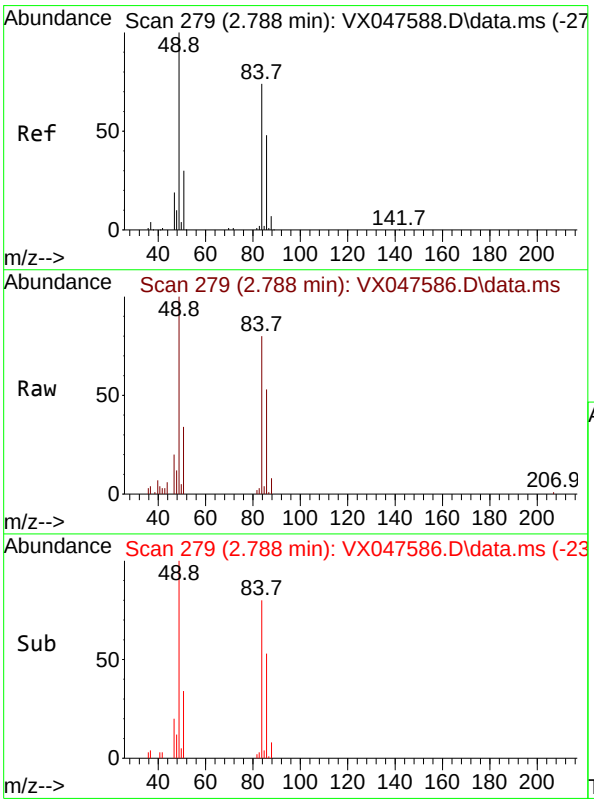
#19
Methyl tert-butyl Ether
Concen: 5.160 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 44396

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2

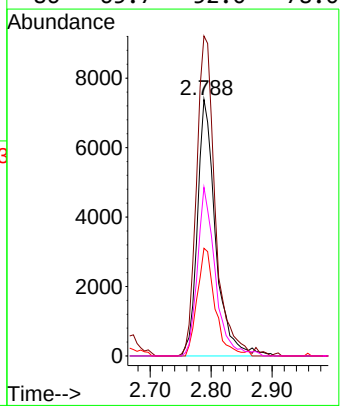


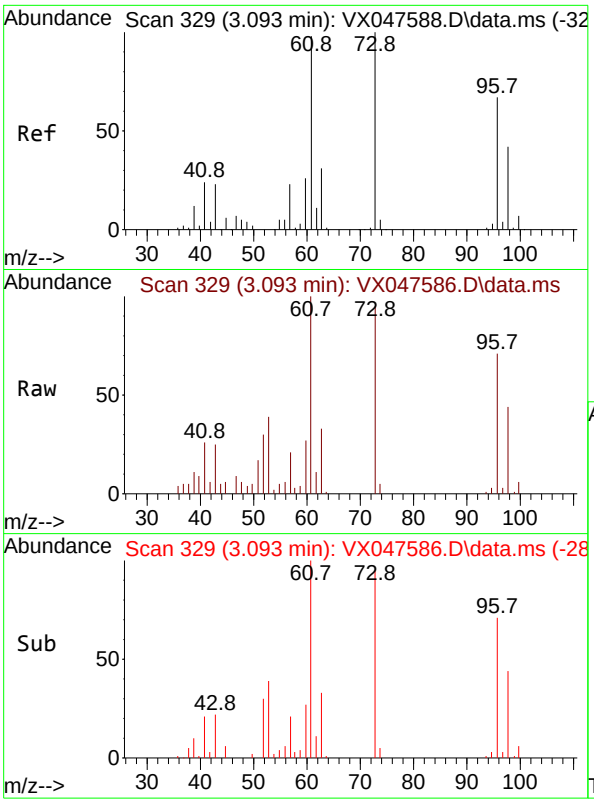


#20
Methylene Chloride
Concen: 5.267 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 84 Resp: 15307

Ion	Ratio	Lower	Upper
84	100		
49	124.7	108.6	162.8
51	42.0	32.6	48.8
86	65.7	52.0	78.0



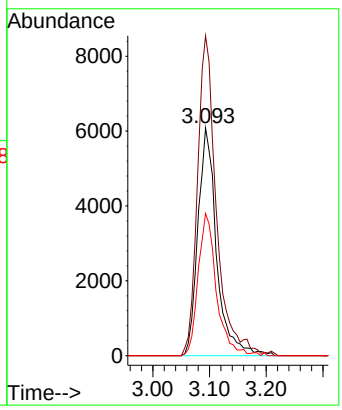


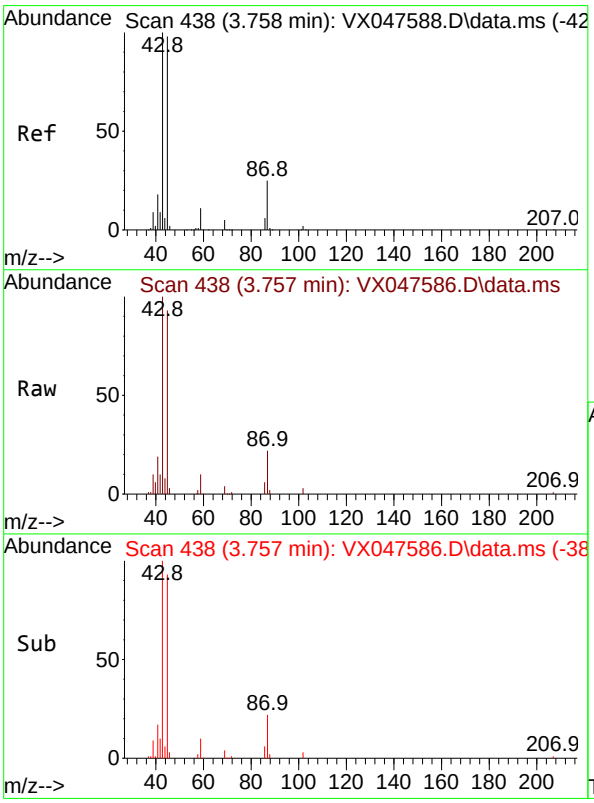
#21
trans-1,2-Dichloroethene
Concen: 5.492 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 13937

Ion	Ratio	Lower	Upper
96	100		
61	140.4	116.2	174.2
98	62.4	49.3	73.9

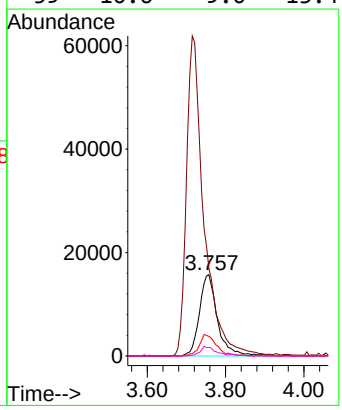


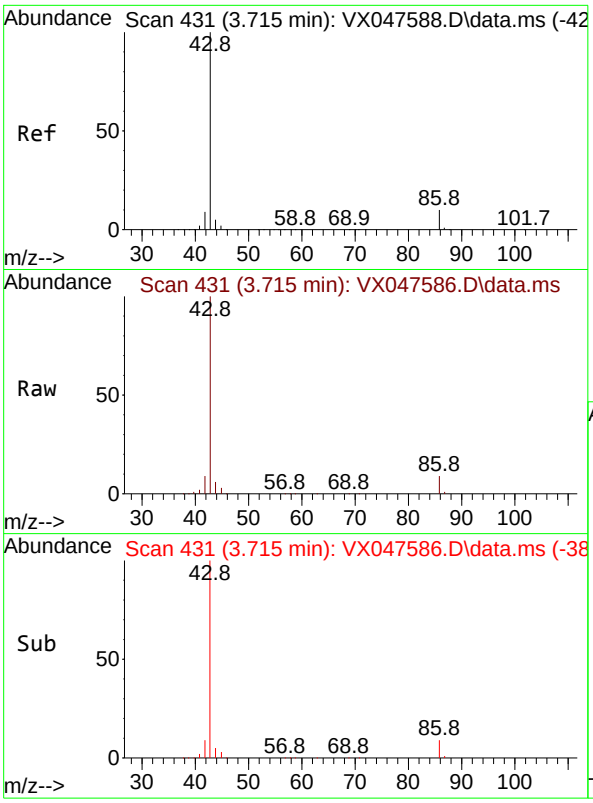


#22
Diisopropyl ether
Concen: 5.327 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 45 Resp: 50213

Ion	Ratio	Lower	Upper
45	100		
43	102.8	81.0	121.4
87	23.3	20.3	30.5
59	10.6	9.0	13.4



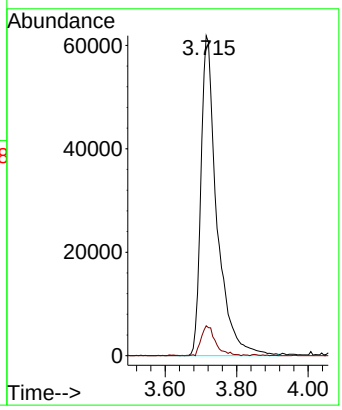


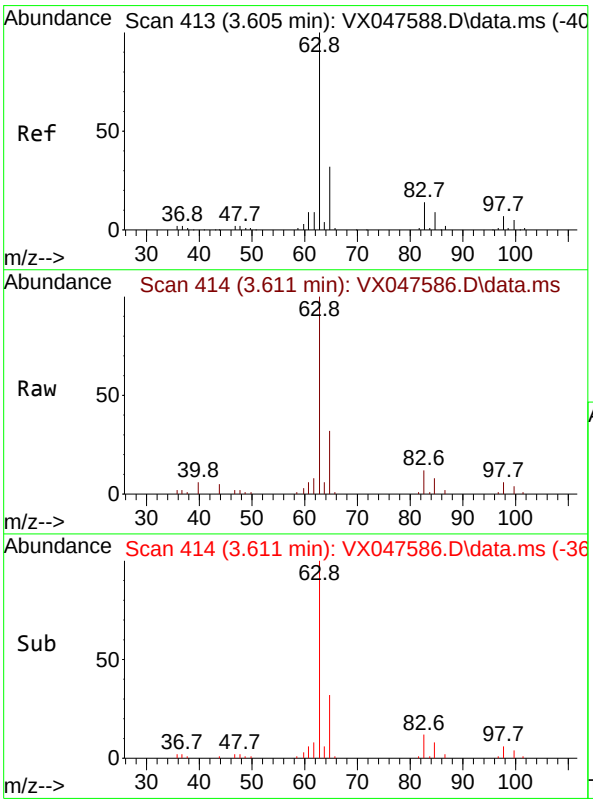
#23
Vinyl Acetate
Concen: 25.474 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 192175

Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.8	11.8

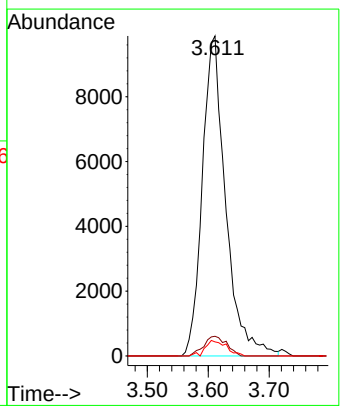


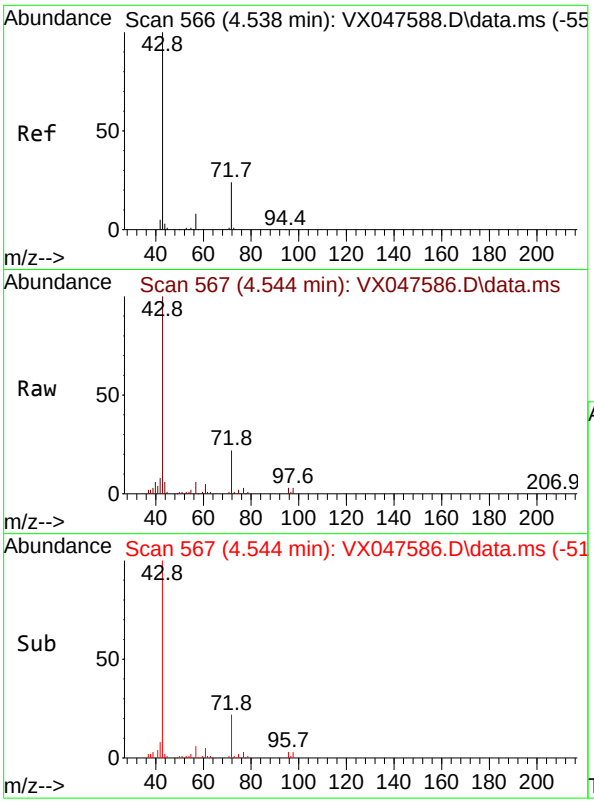


#24
1,1-Dichloroethane
Concen: 5.248 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 26292

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.4	2.3	6.9



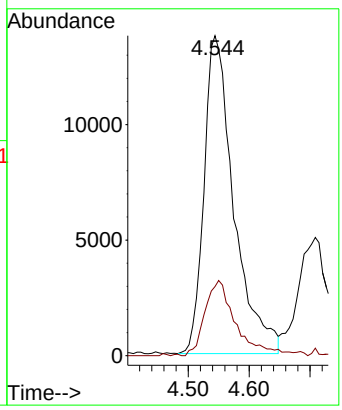


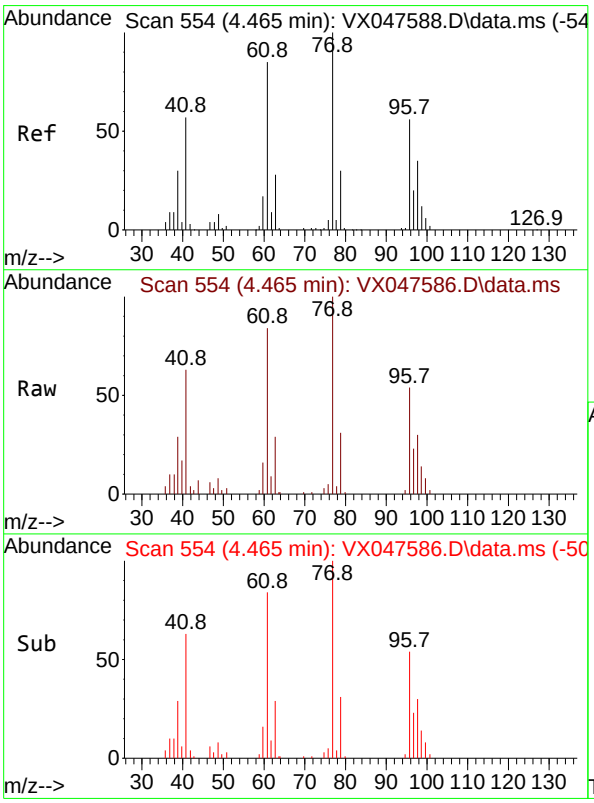
#25
2-Butanone
Concen: 27.240 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 46651

Ion	Ratio	Lower	Upper
43	100		
72	21.3	20.1	30.1

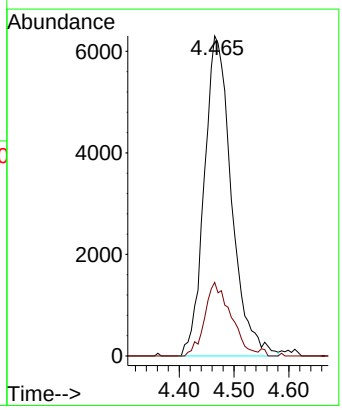


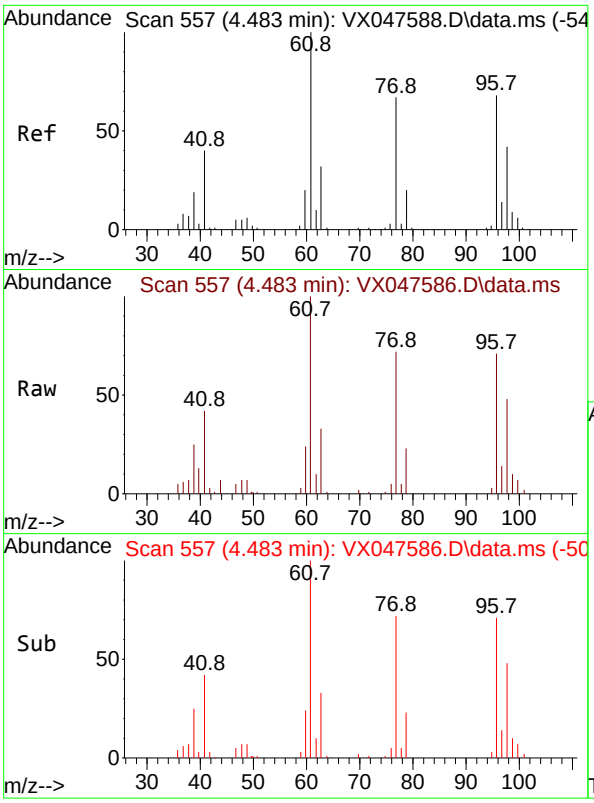


#26
2,2-Dichloropropane
Concen: 5.220 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 77 Resp: 21738

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7



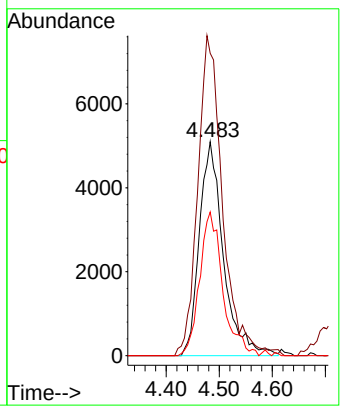


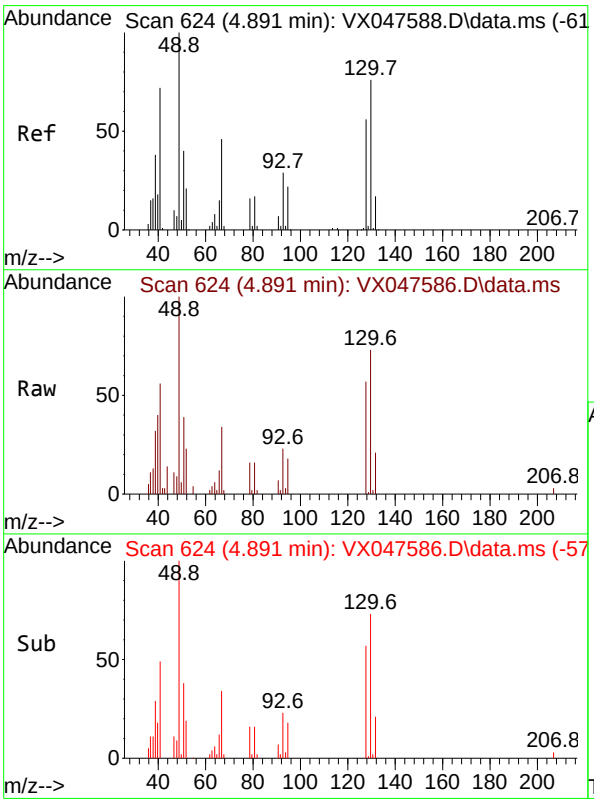
#27
cis-1,2-Dichloroethene
Concen: 5.147 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 15996

Ion	Ratio	Lower	Upper
96	100		
61	154.4	0.0	303.2
98	64.8	0.0	127.8

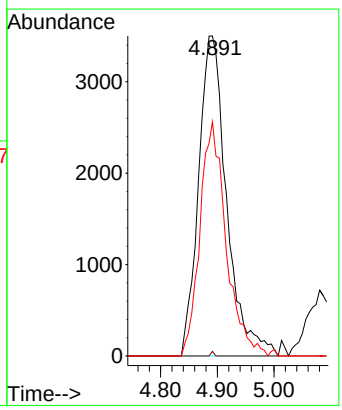


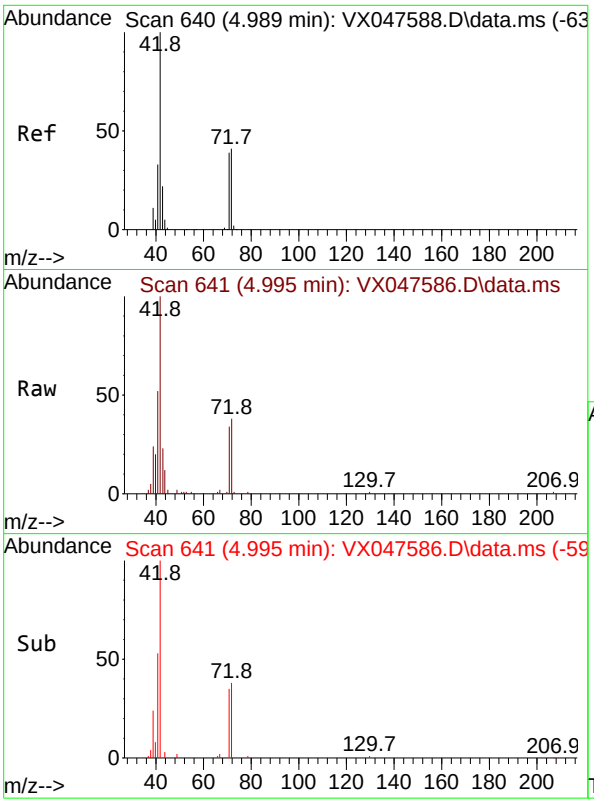


#28
Bromochloromethane
Concen: 5.508 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 49 Resp: 12047

Ion	Ratio	Lower	Upper
49	100		
129	0.2	0.0	3.2
130	68.0	57.8	86.8



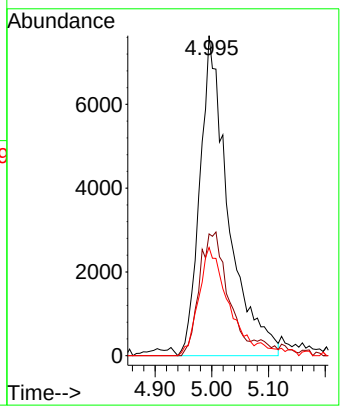


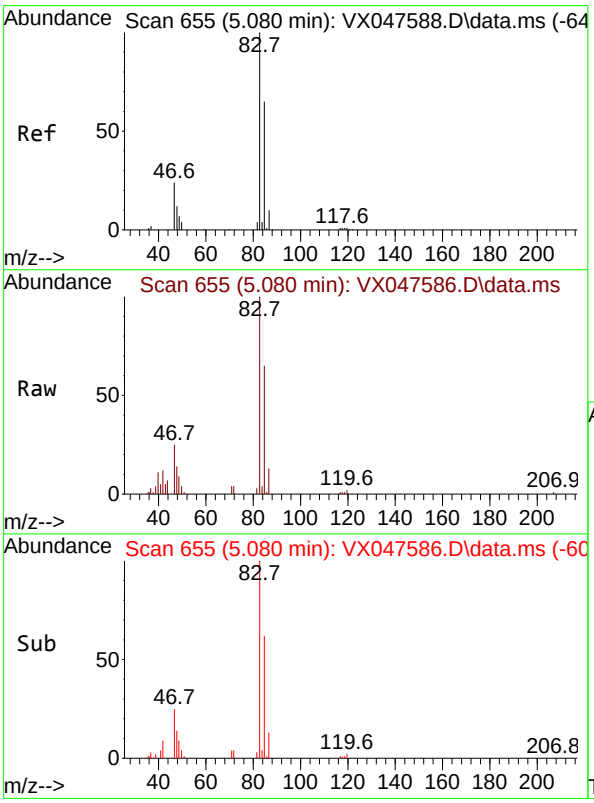
#29
Tetrahydrofuran
Concen: 25.944 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 26729

Ion	Ratio	Lower	Upper
42	100		
72	38.7	34.2	51.2
71	34.1	31.9	47.9

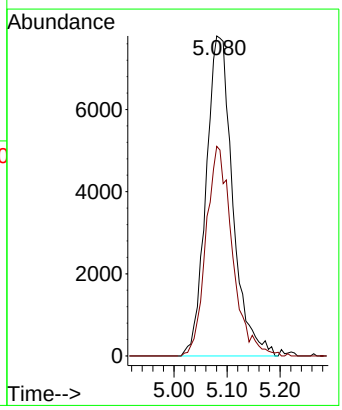


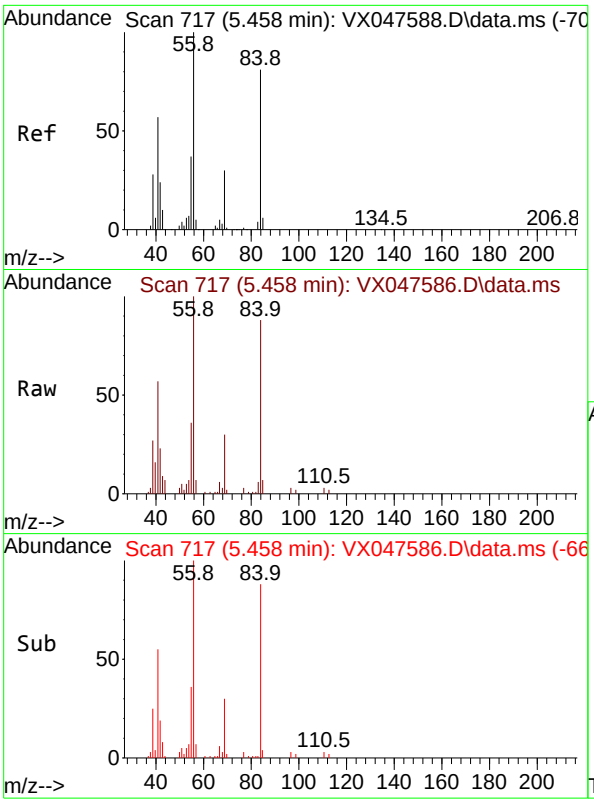


#30
Chloroform
Concen: 5.344 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 27054

Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.6



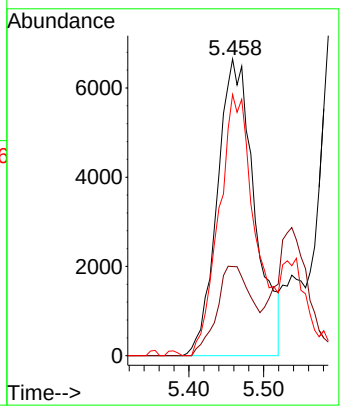


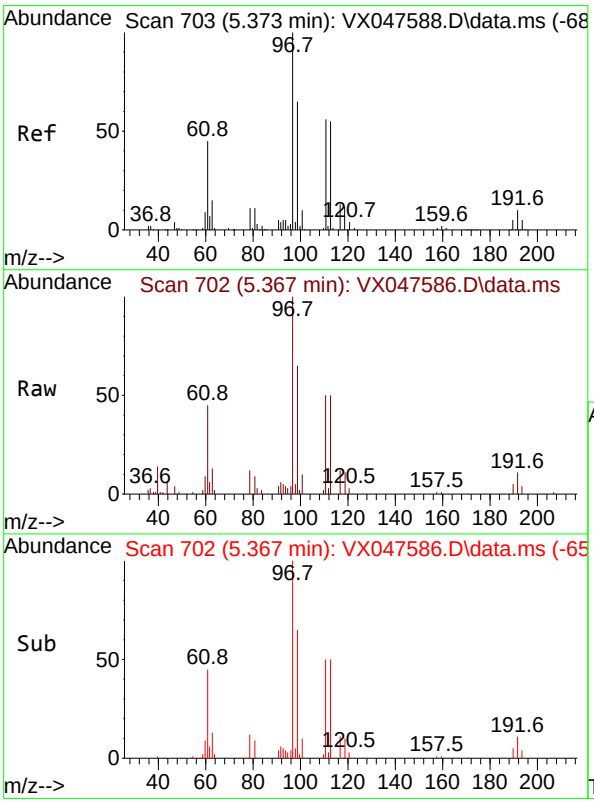
#31
Cyclohexane
Concen: 5.520 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 23032

Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.8	35.8
84	87.1	64.6	97.0

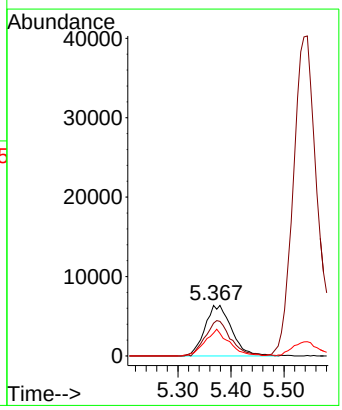


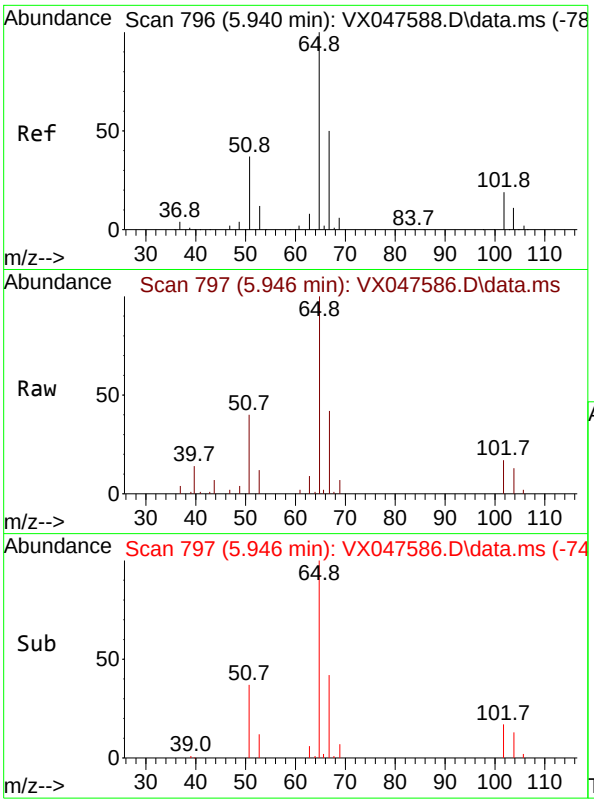


#32
1,1,1-Trichloroethane
Concen: 5.188 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 97 Resp: 22279

Ion	Ratio	Lower	Upper
97	100		
99	66.4	50.6	76.0
61	47.4	35.8	53.8



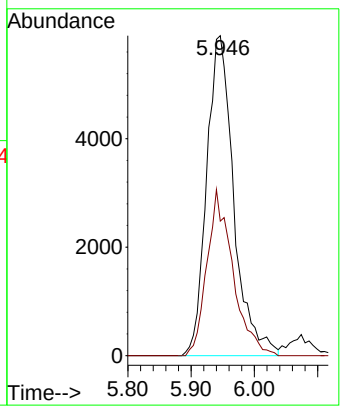


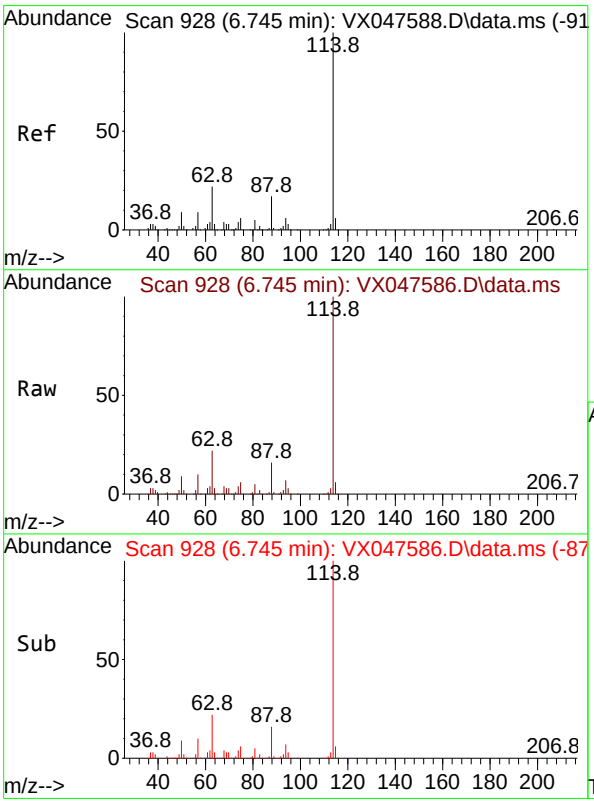
#33
1,2-Dichloroethane-d4
Concen: 5.554 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 17538

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	103.0

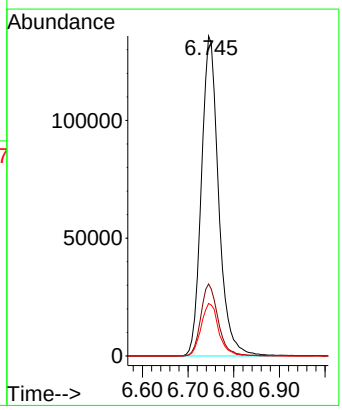


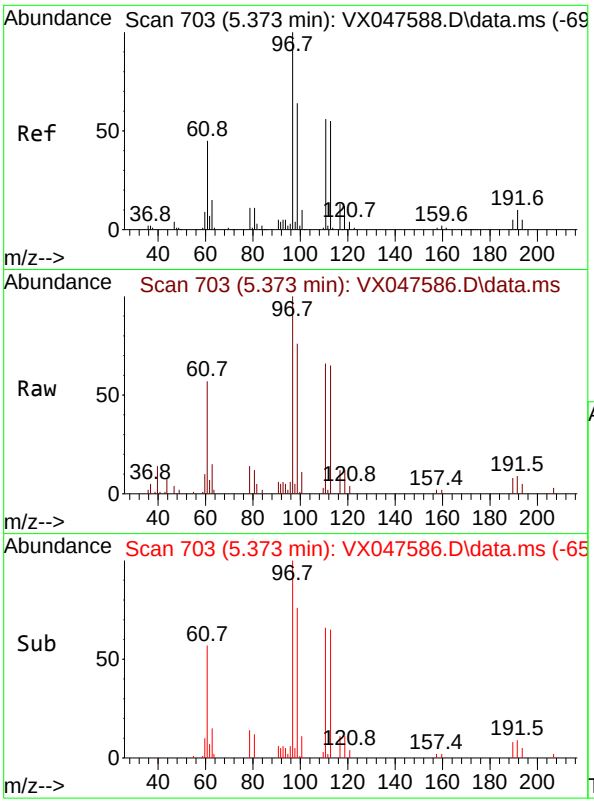


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:114 Resp: 355026

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.4	0.0	34.2



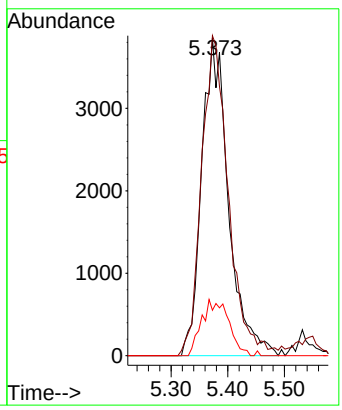


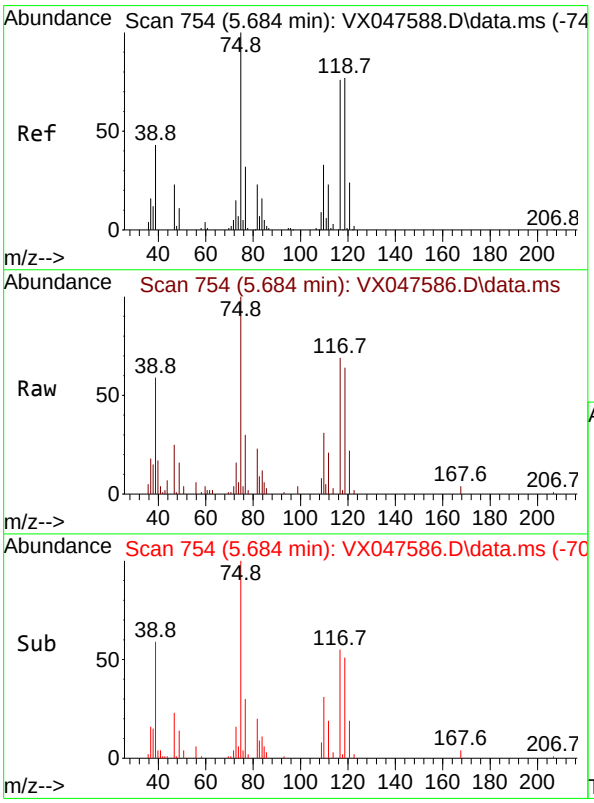
#35
Dibromofluoromethane
Concen: 5.312 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 12647

Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.9	121.3
192	17.8	14.2	21.4

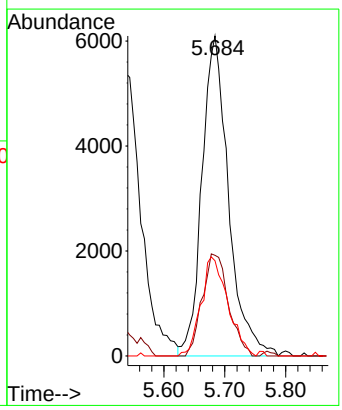


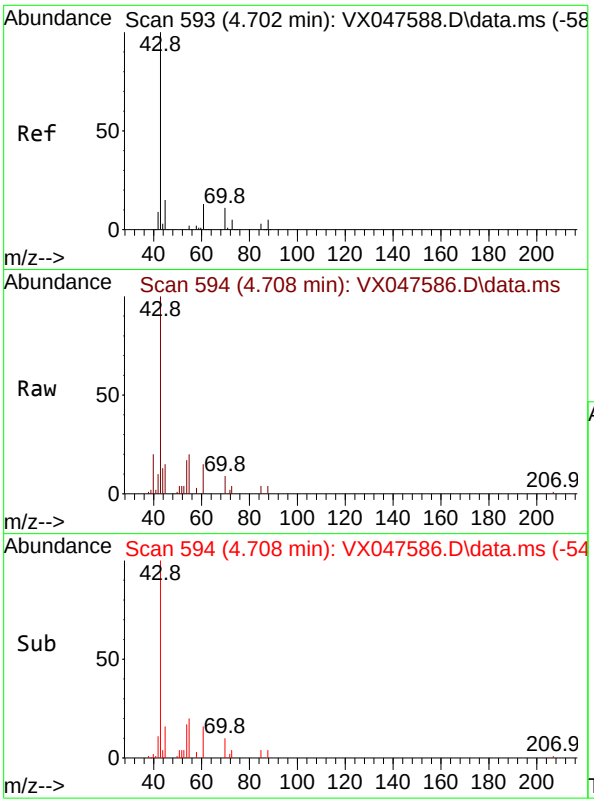


#36
1,1-Dichloropropene
Concen: 5.304 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 18455

Ion	Ratio	Lower	Upper
75	100		
110	31.4	16.7	50.1
77	31.0	24.3	36.5



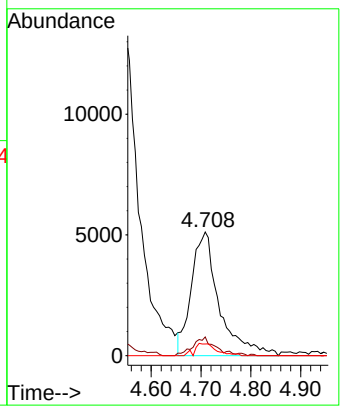


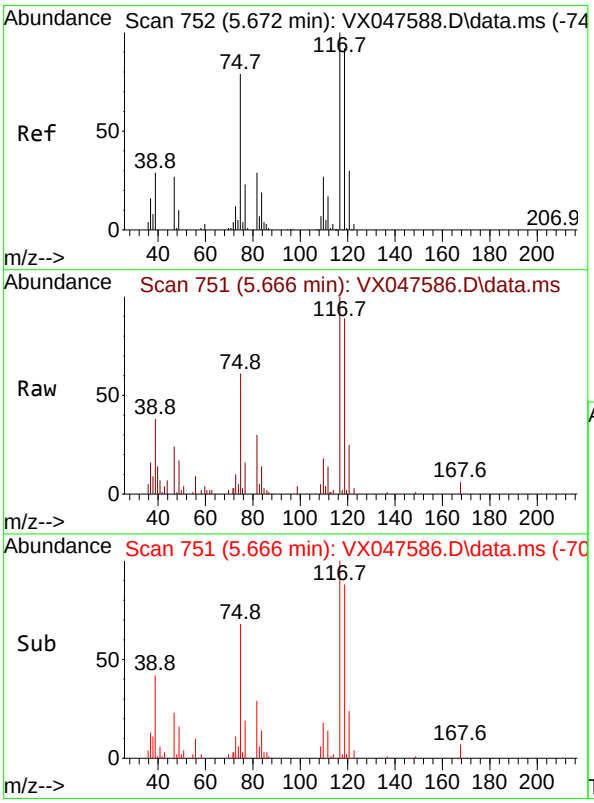
#37
Ethyl Acetate
Concen: 5.345 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 19913

Ion	Ratio	Lower	Upper
43	100		
61	11.9	9.8	14.8
70	7.6	7.9	11.9#

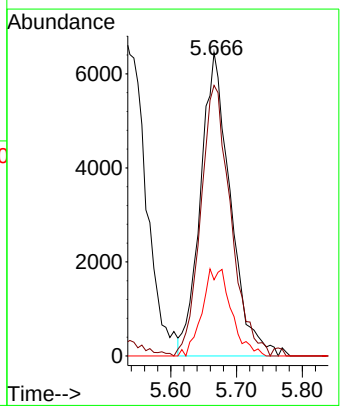


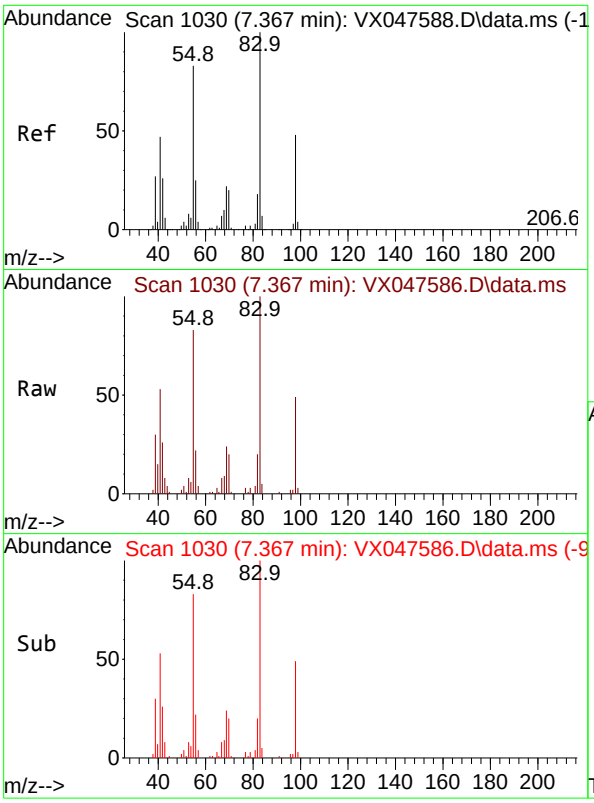


#38
Carbon Tetrachloride
Concen: 5.390 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 20376

Ion	Ratio	Lower	Upper
117	100		
119	88.9	73.4	110.2
121	25.1	23.8	35.6



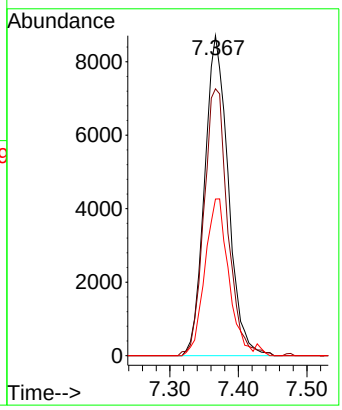


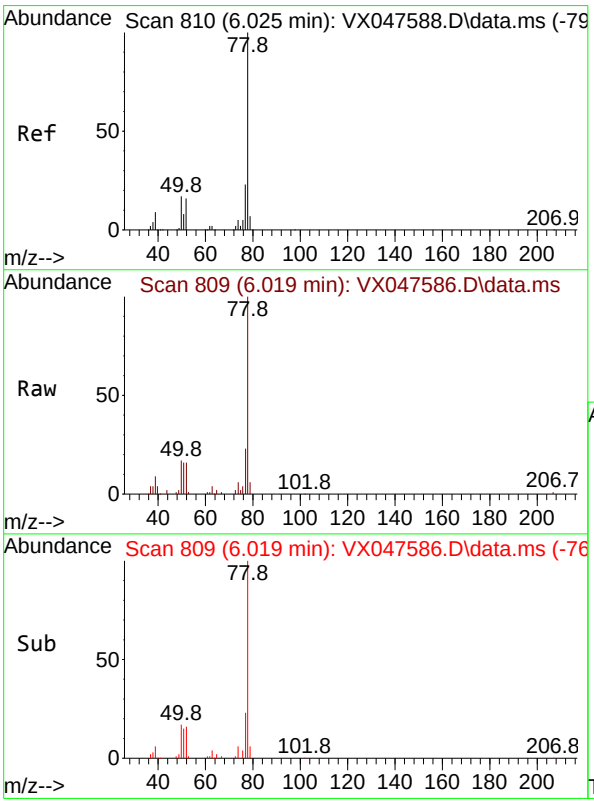
#39
Methylcyclohexane
Concen: 5.292 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 20900

Ion	Ratio	Lower	Upper
83	100		
55	79.1	66.4	99.6
98	46.4	38.1	57.1

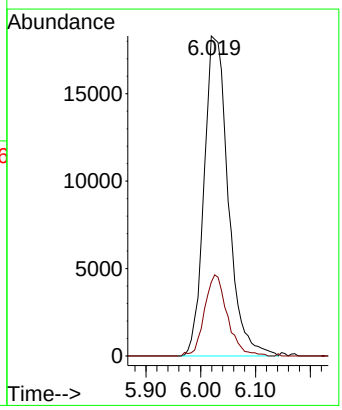


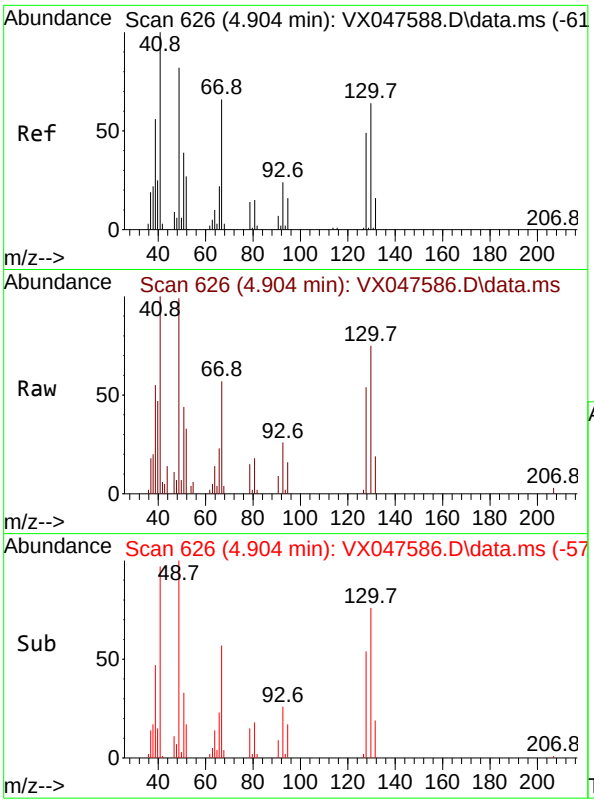


#40
Benzene
Concen: 5.299 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 78 Resp: 55996

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2



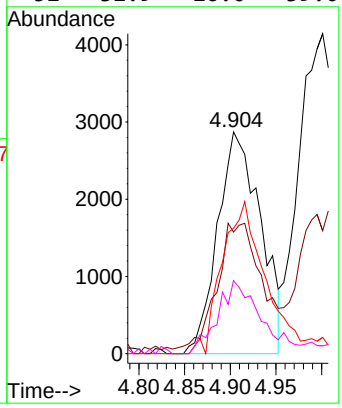


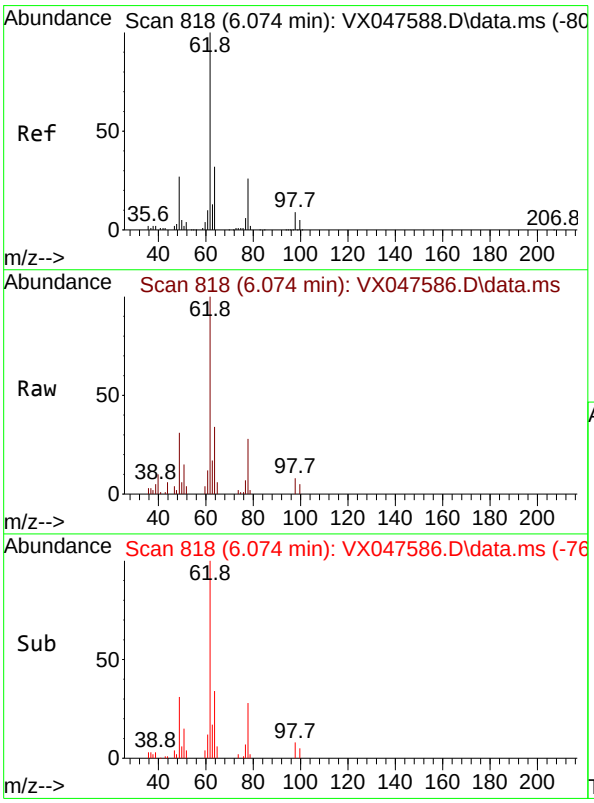
#41
Methacrylonitrile
Concen: 4.883 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 9390

Ion	Ratio	Lower	Upper
41	100		
39	58.3	43.3	64.9
67	68.7	58.6	87.8
52	32.9	26.0	39.0

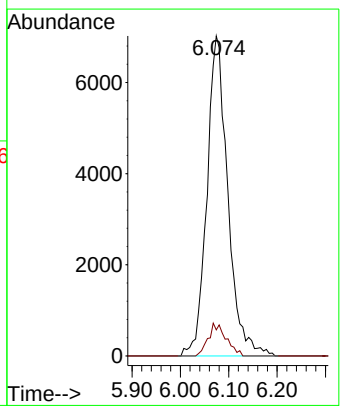


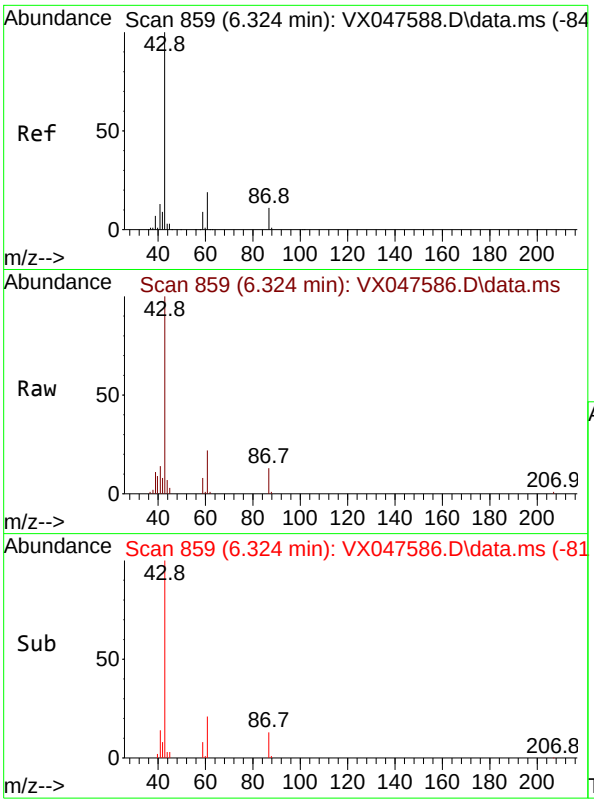


#42
1,2-Dichloroethane
Concen: 5.252 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 21117

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0



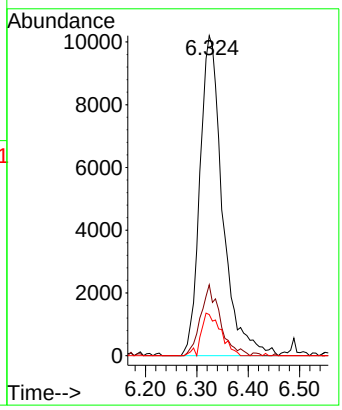


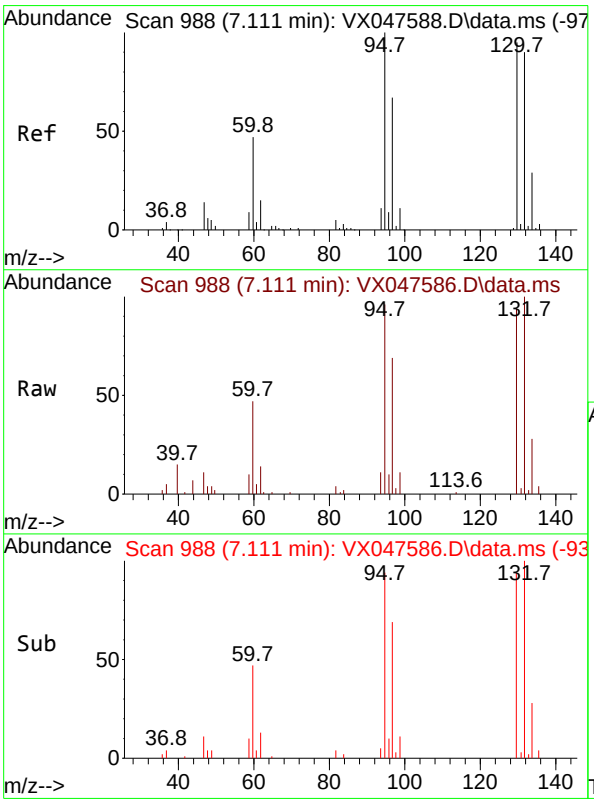
#43
Isopropyl Acetate
Concen: 5.124 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 31304

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	11.6	9.6	14.4

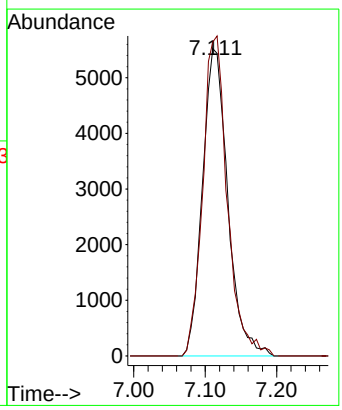


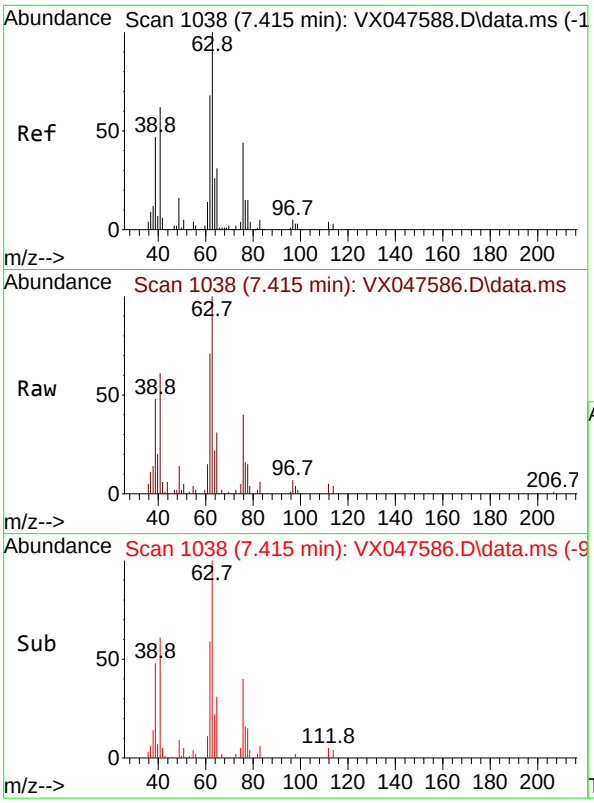


#44
Trichloroethene
Concen: 5.314 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:130 Resp: 13576

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	210.8



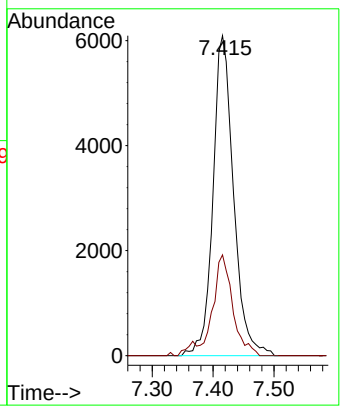


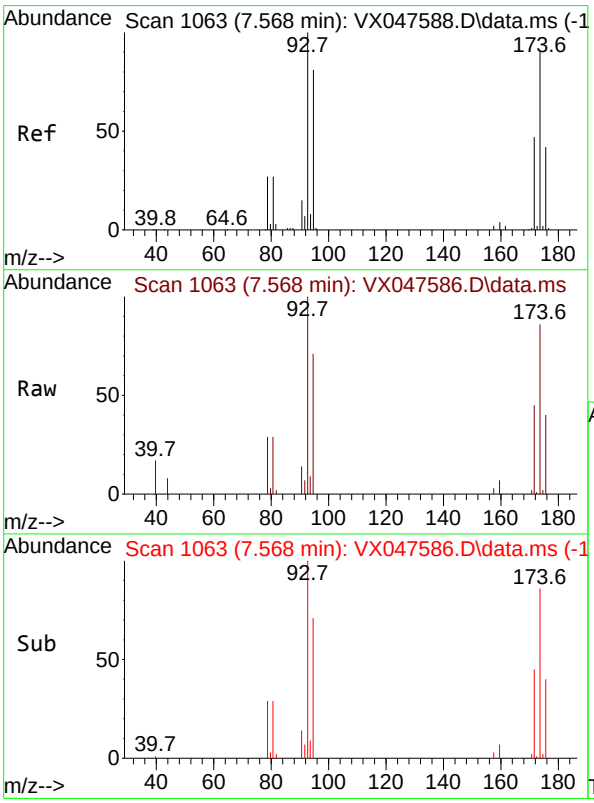
#45
1,2-Dichloropropane
Concen: 5.287 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 14305

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

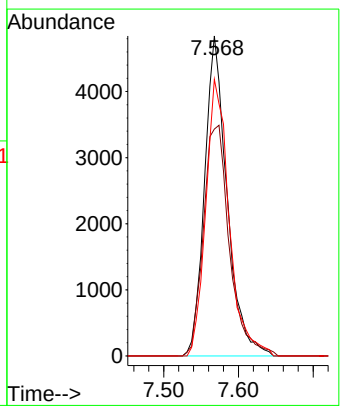


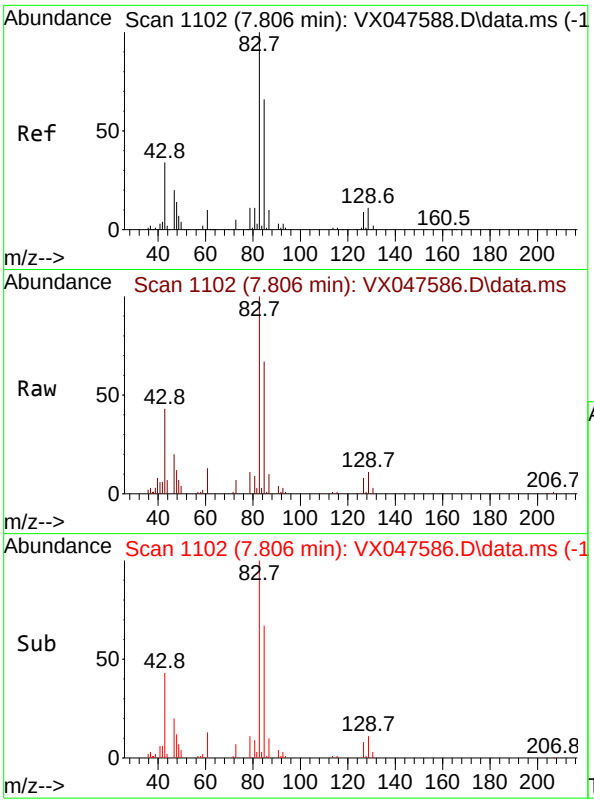


#46
Dibromomethane
Concen: 5.146 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 93 Resp: 10133

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.0	97.6
174	90.0	71.6	107.4



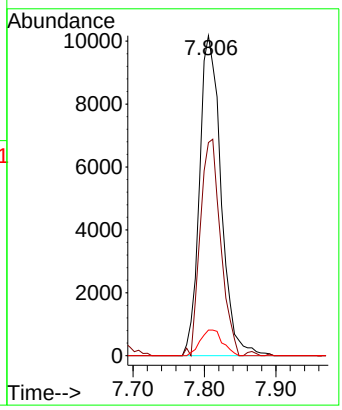


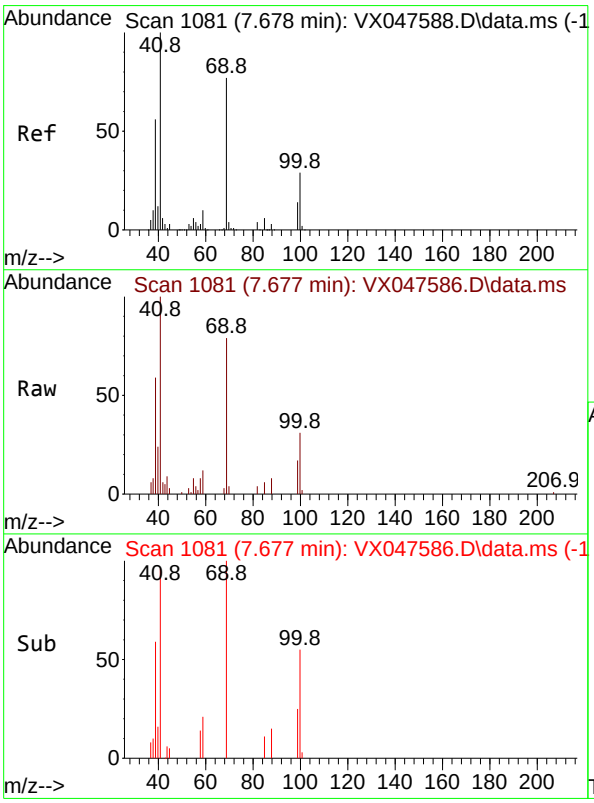
#47
Bromodichloromethane
Concen: 5.235 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 21270

Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.5	78.7
127	7.8	6.9	10.3

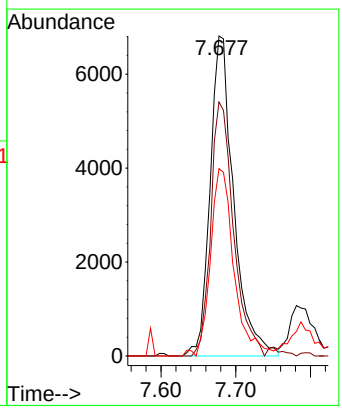


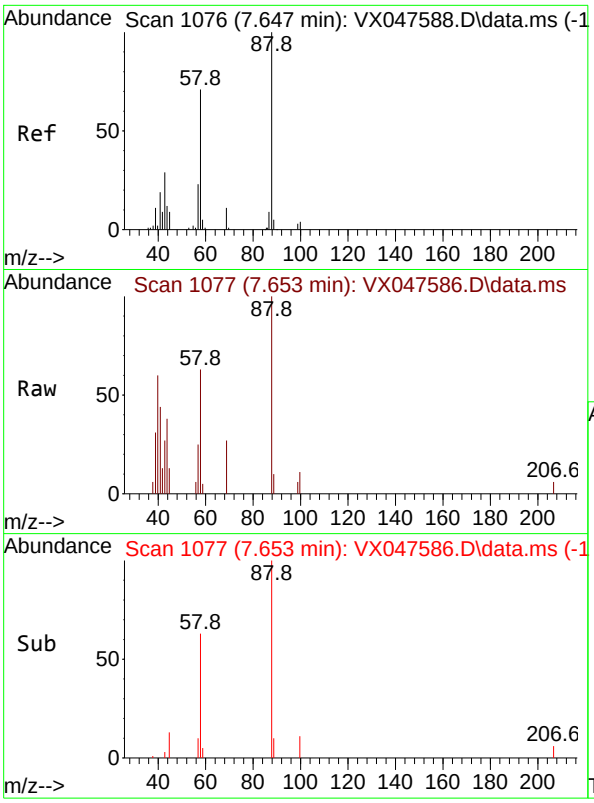


#48
Methyl methacrylate
Concen: 4.915 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 14959

Ion	Ratio	Lower	Upper
41	100		
69	76.4	61.4	92.2
39	58.2	45.8	68.6



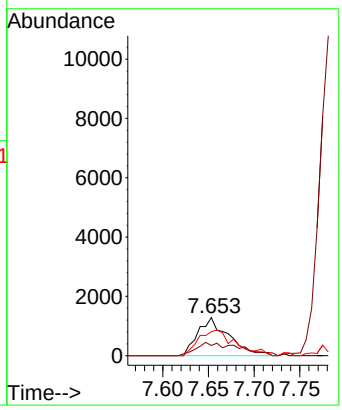


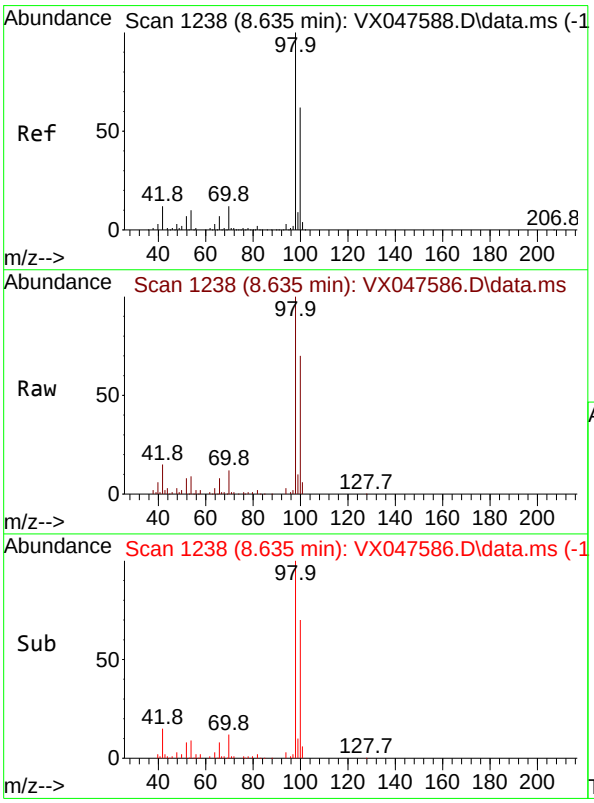
#49
1,4-Dioxane
Concen: 98.096 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 3017

Ion	Ratio	Lower	Upper
88	100		
43	48.3	30.2	45.2#
58	79.1	59.5	89.3

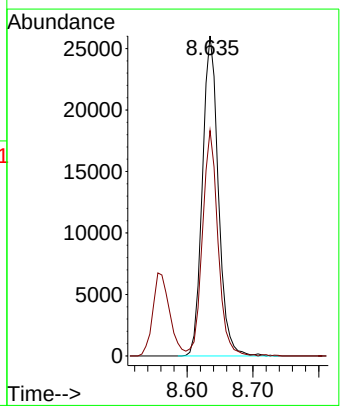


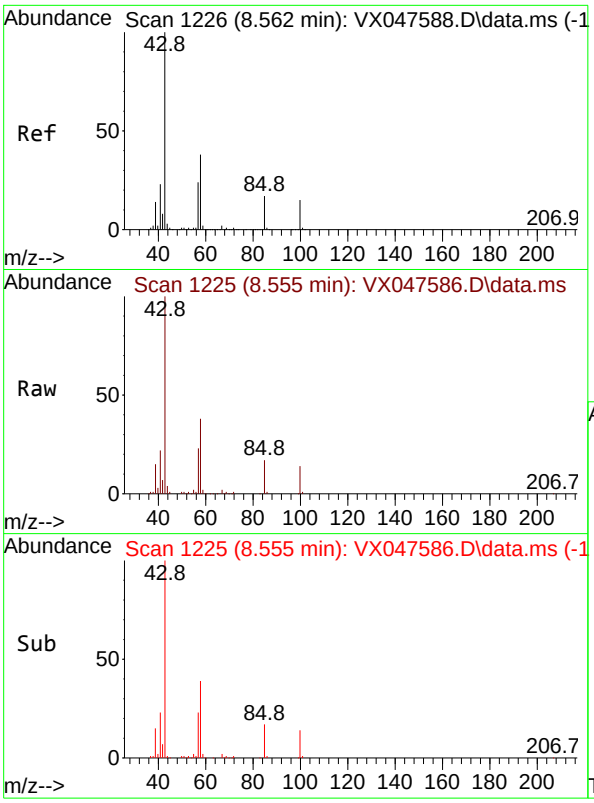


#50
Toluene-d8
Concen: 5.332 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 98 Resp: 43926

Ion	Ratio	Lower	Upper
98	100		
100	68.4	53.0	79.4



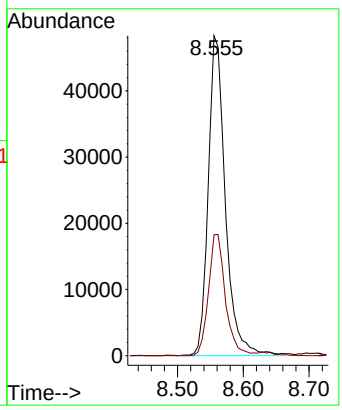


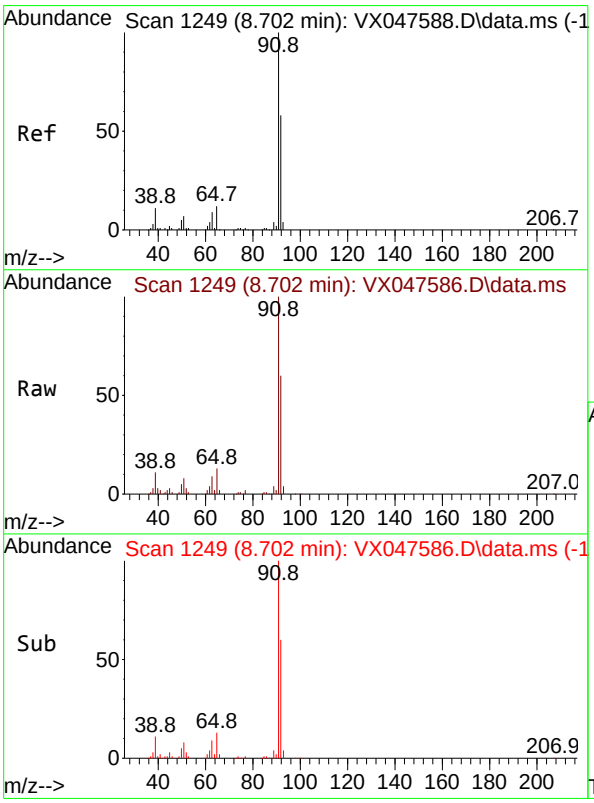
#51
4-Methyl-2-Pentanone
Concen: 25.828 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 87492

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5

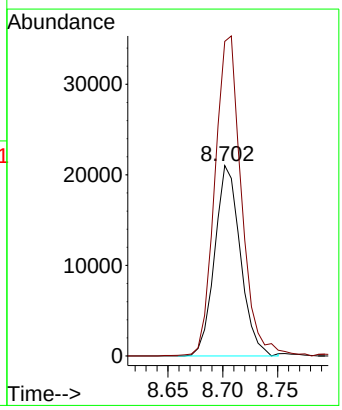


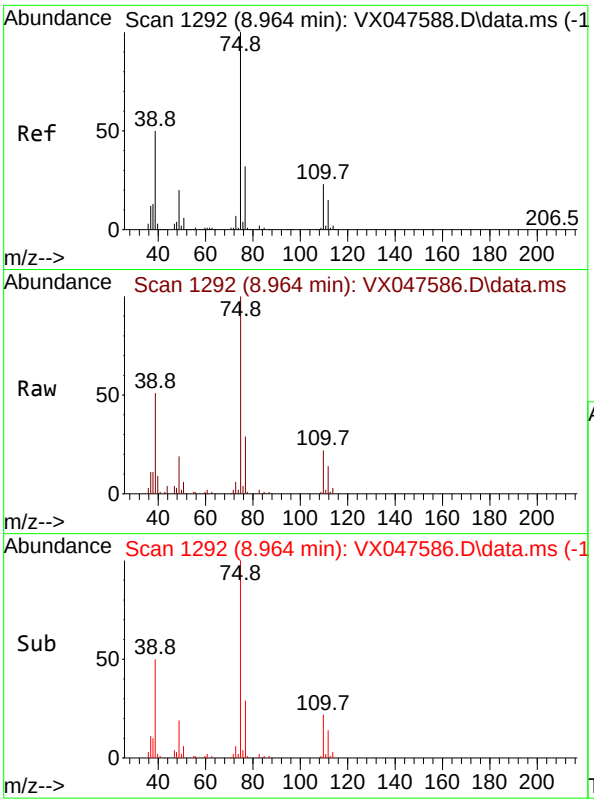


#52
Toluene
Concen: 5.271 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 92 Resp: 34314

Ion	Ratio	Lower	Upper
92	100		
91	173.8	137.1	205.7



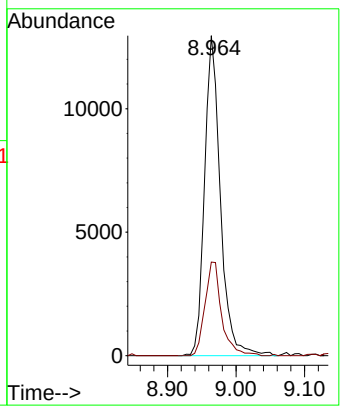


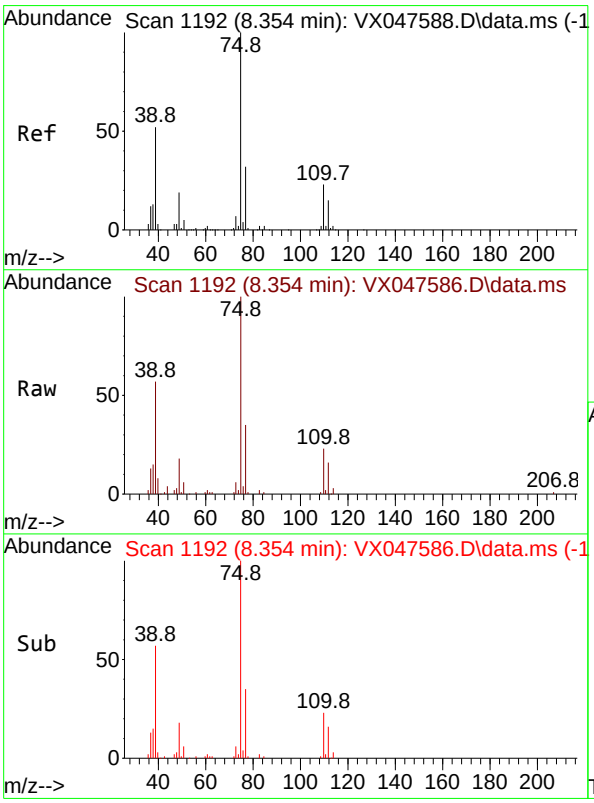
#53
t-1,3-Dichloropropene
Concen: 5.034 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 20863

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.2

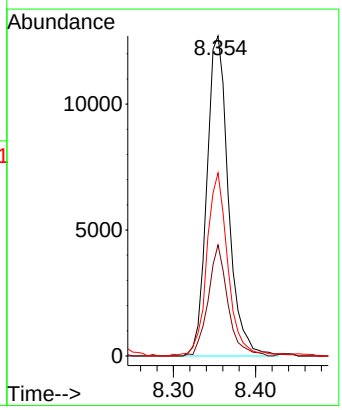


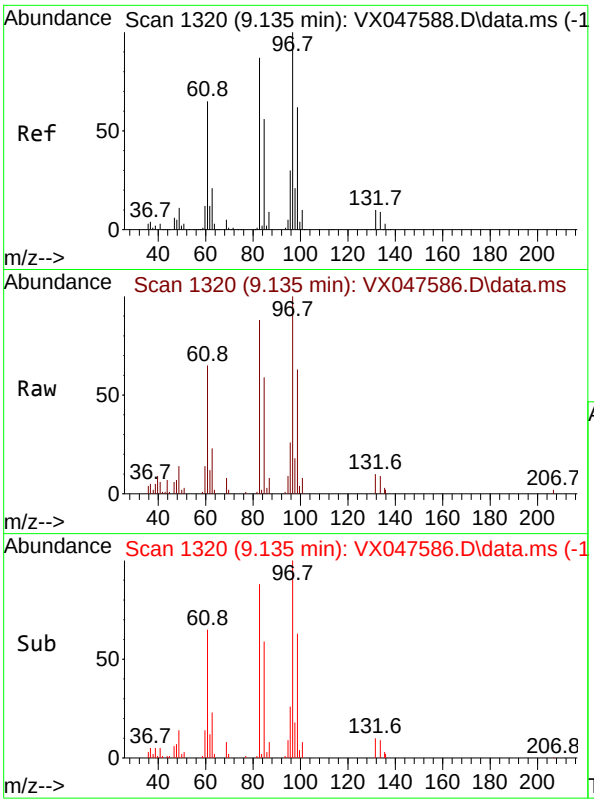


#54
cis-1,3-Dichloropropene
Concen: 5.227 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 23157

Ion	Ratio	Lower	Upper
75	100		
77	34.7	25.8	38.6
39	51.7	41.4	62.2



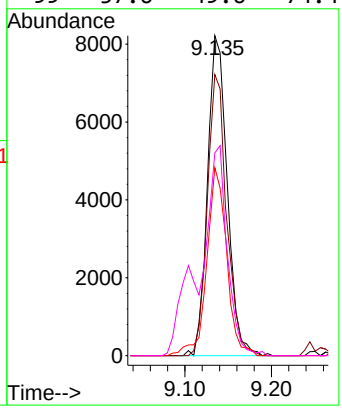


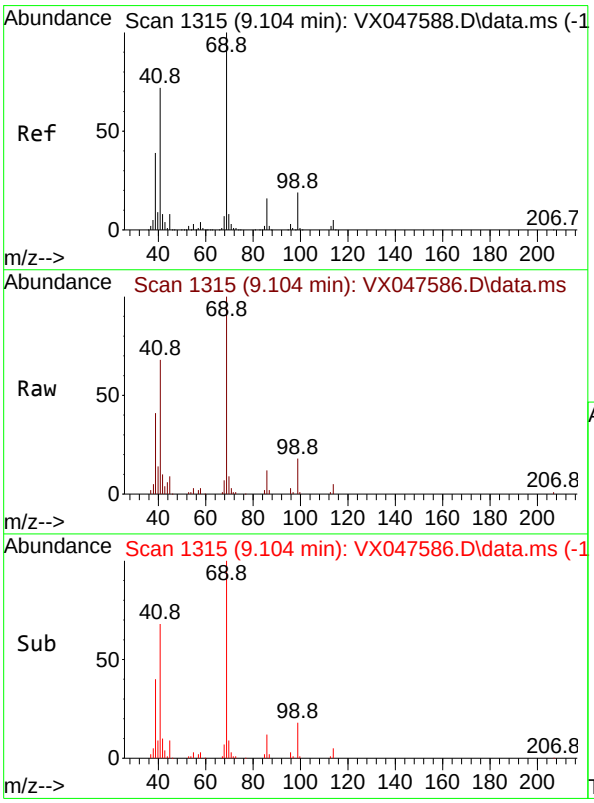
#55
1,1,2-Trichloroethane
Concen: 5.166 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 12968

Ion	Ratio	Lower	Upper
97	100		
83	76.7	69.6	104.4
85	49.9	45.0	67.6
99	57.6	49.6	74.4

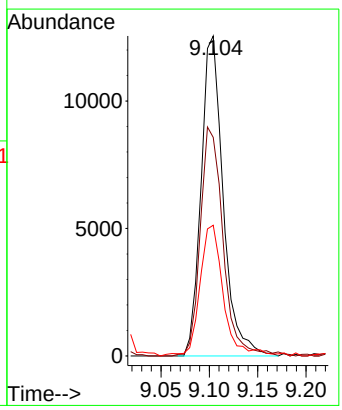


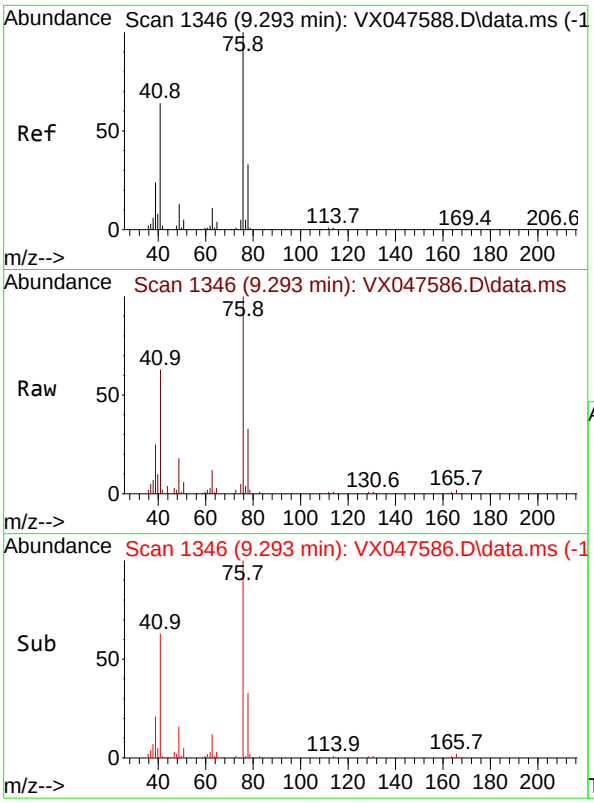


#56
Ethyl methacrylate
Concen: 5.068 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 69 Resp: 19980

Ion	Ratio	Lower	Upper
69	100		
41	73.9	58.6	87.8
39	43.7	31.5	47.3



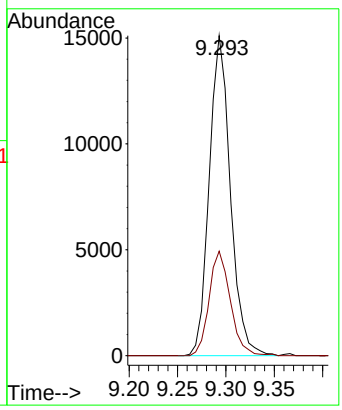


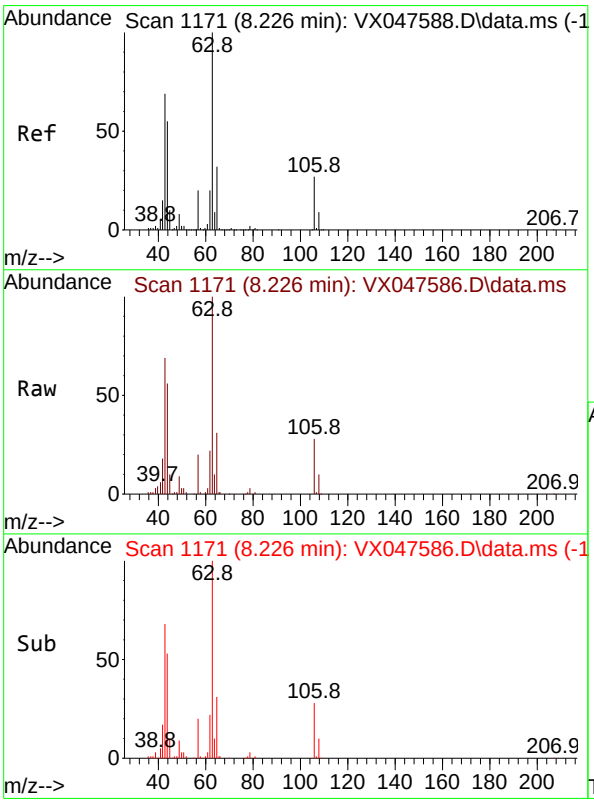
#57
1,3-Dichloropropane
Concen: 5.331 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 22989

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4

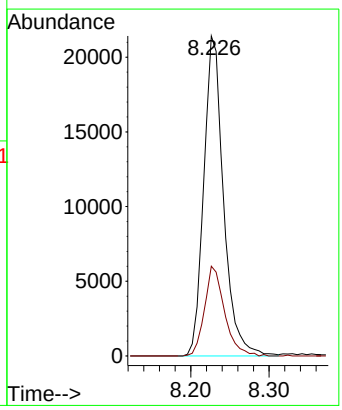


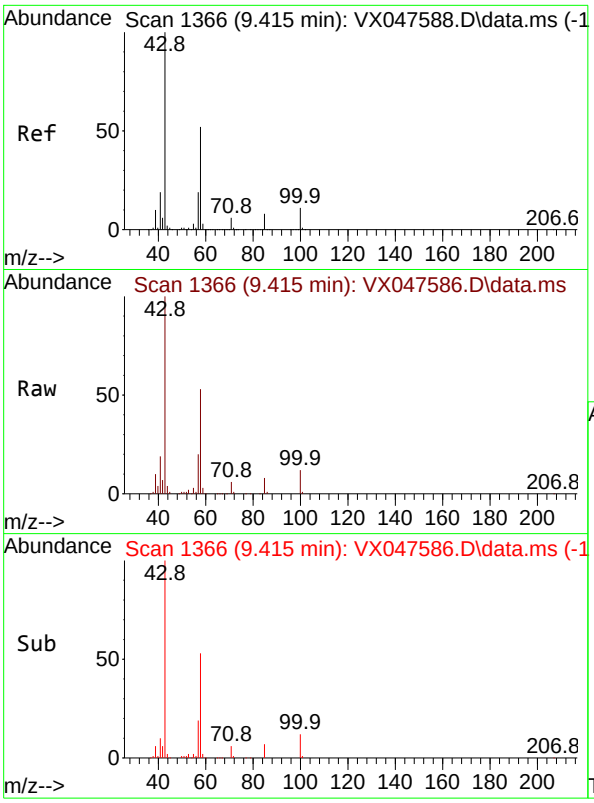


#58
2-Chloroethyl Vinyl ether
Concen: 27.899 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 37585

Ion	Ratio	Lower	Upper
63	100		
106	28.3	21.9	32.9



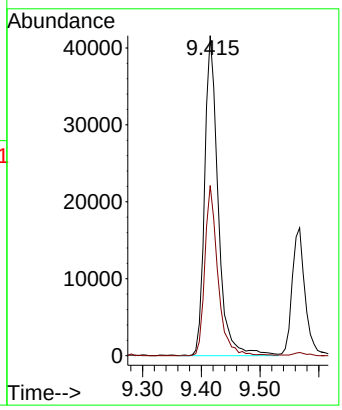


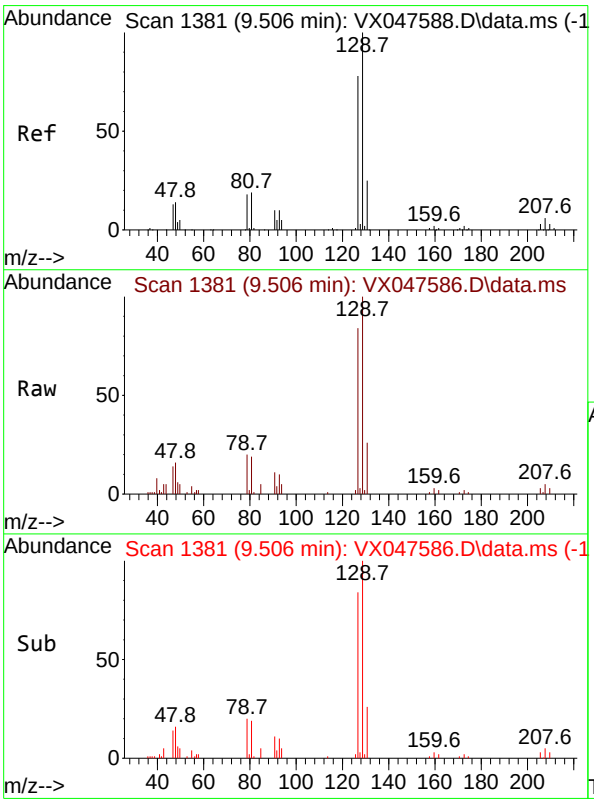
#59
2-Hexanone
Concen: 27.275 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 66356

Ion	Ratio	Lower	Upper
43	100		
58	51.1	26.1	78.2

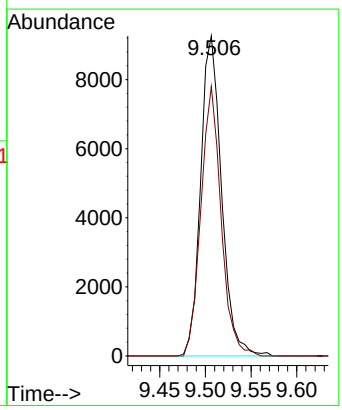


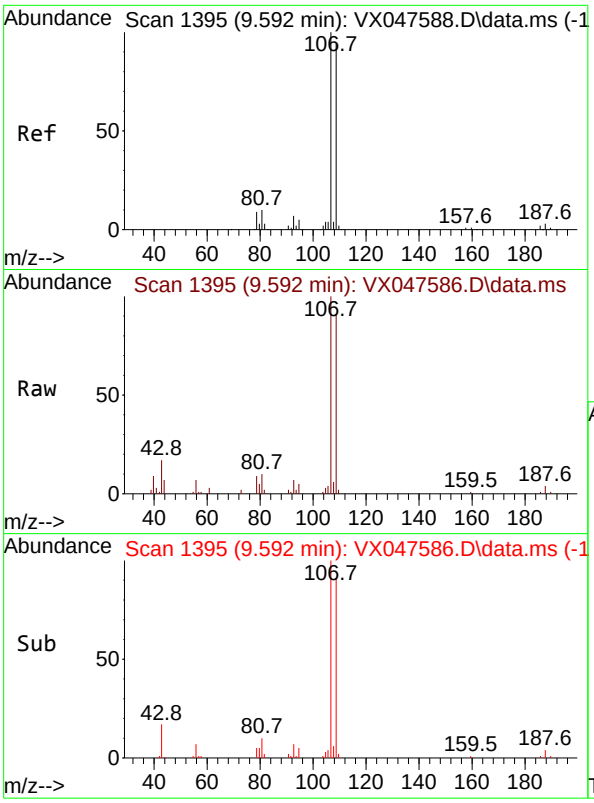


#60
Dibromochloromethane
Concen: 5.084 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:129 Resp: 14705

Ion	Ratio	Lower	Upper
129	100		
127	81.4	38.4	115.2



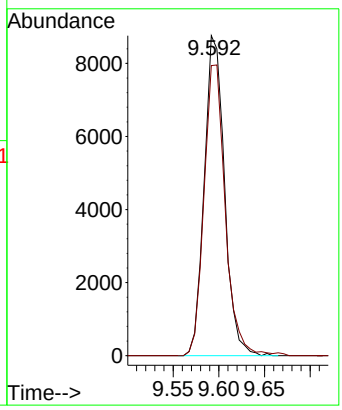


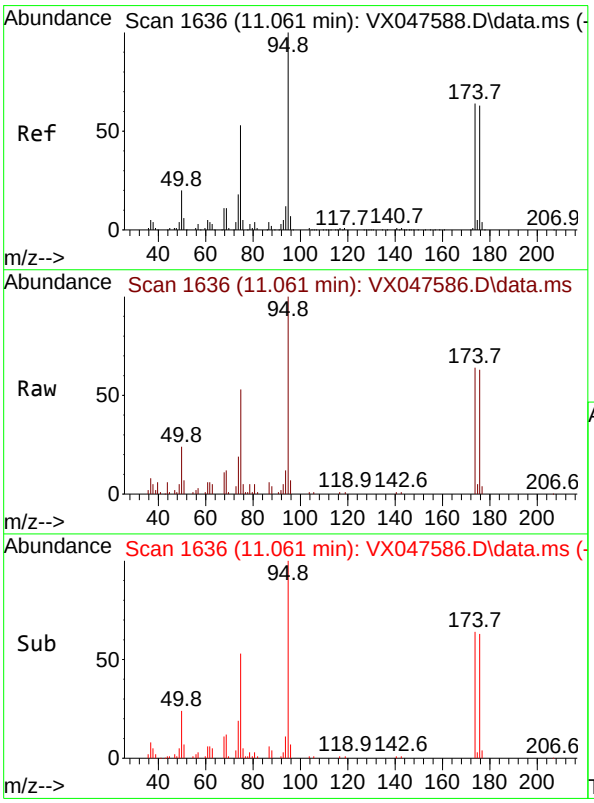
#61
1,2-Dibromoethane
Concen: 5.264 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 13461

Ion	Ratio	Lower	Upper
107	100		
109	95.6	75.3	112.9

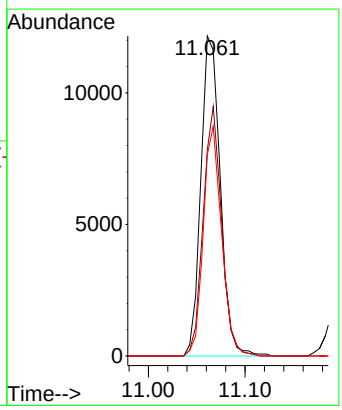


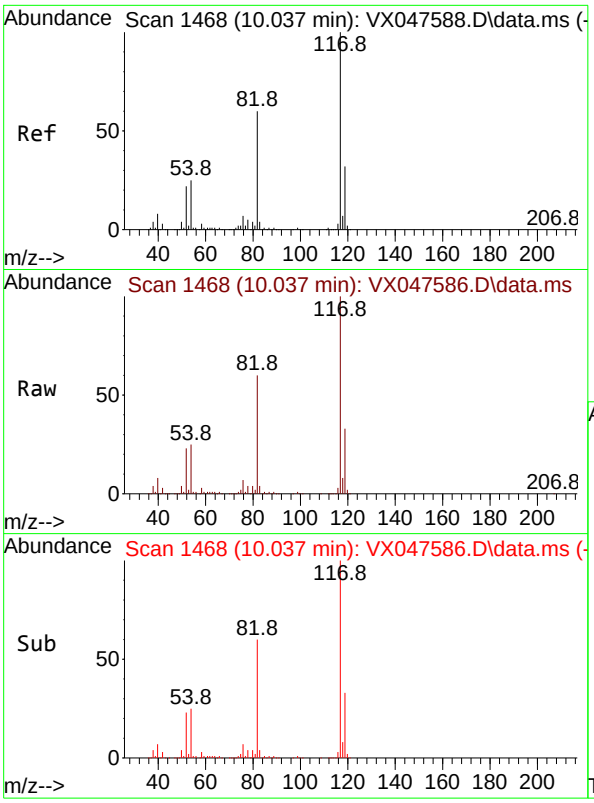


#62
4-Bromofluorobenzene
Concen: 5.429 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 95 Resp: 16974

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	141.6
176	67.9	0.0	138.4



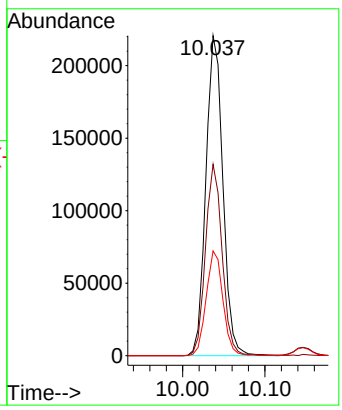


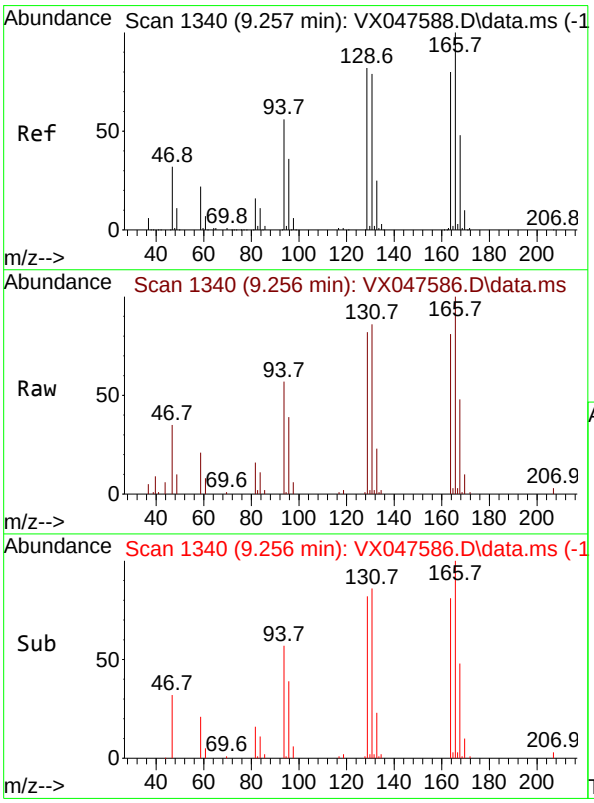
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 317288

Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.8	71.6
119	32.8	25.2	37.8

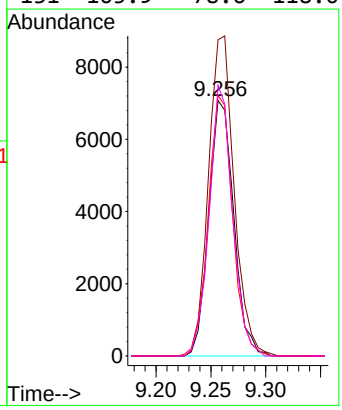


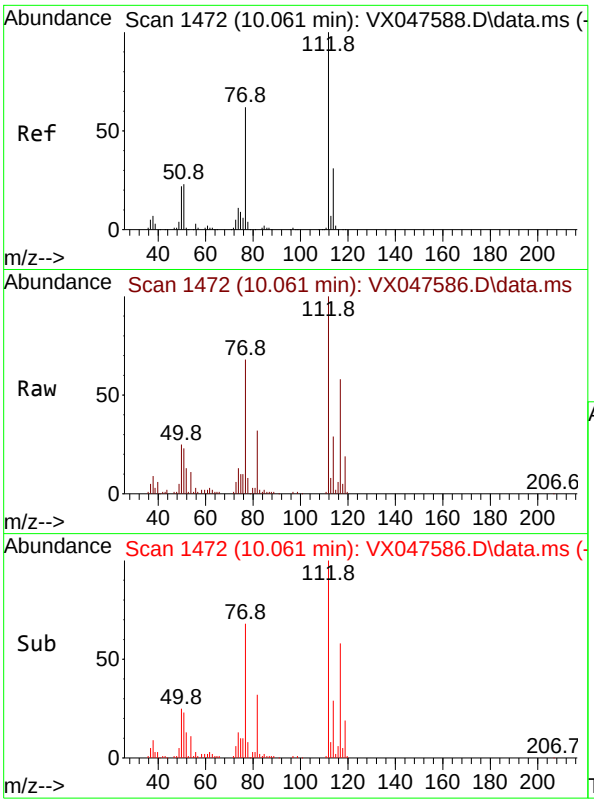


#64
Tetrachloroethene
Concen: 5.428 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:164 Resp: 11228

Ion	Ratio	Lower	Upper
164	100		
166	123.8	100.2	150.2
129	102.0	81.8	122.6
131	105.9	78.6	118.0



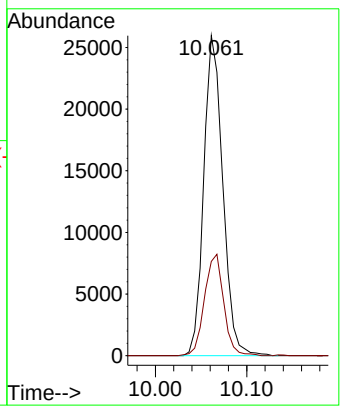


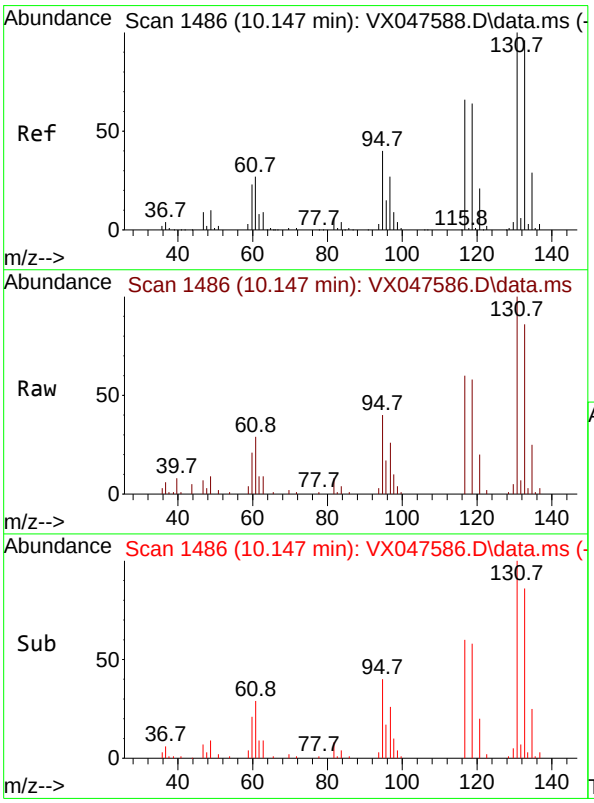
#65
Chlorobenzene
Concen: 5.203 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 37507

Ion	Ratio	Lower	Upper
112	100		
114	29.2	25.1	37.7

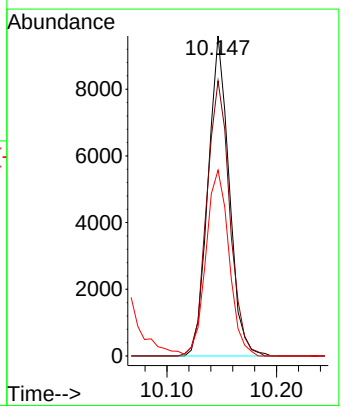


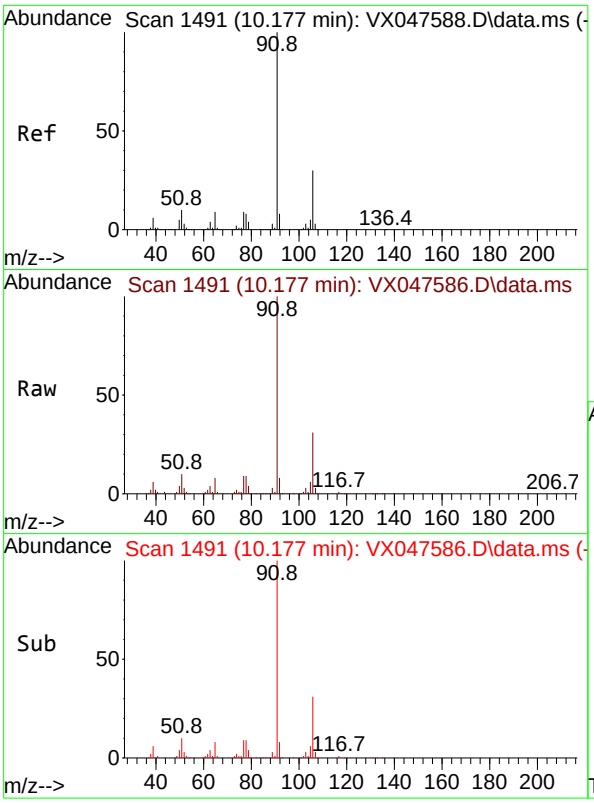


#66
1,1,1,2-Tetrachloroethane
Concen: 5.149 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:131 Resp: 12807

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	142.0
119	63.5	32.0	96.0



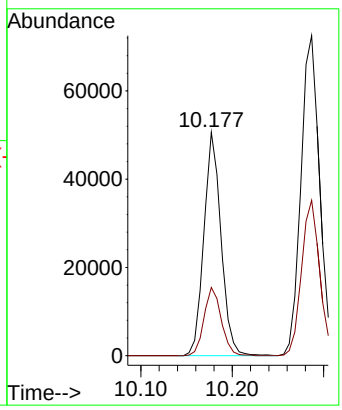


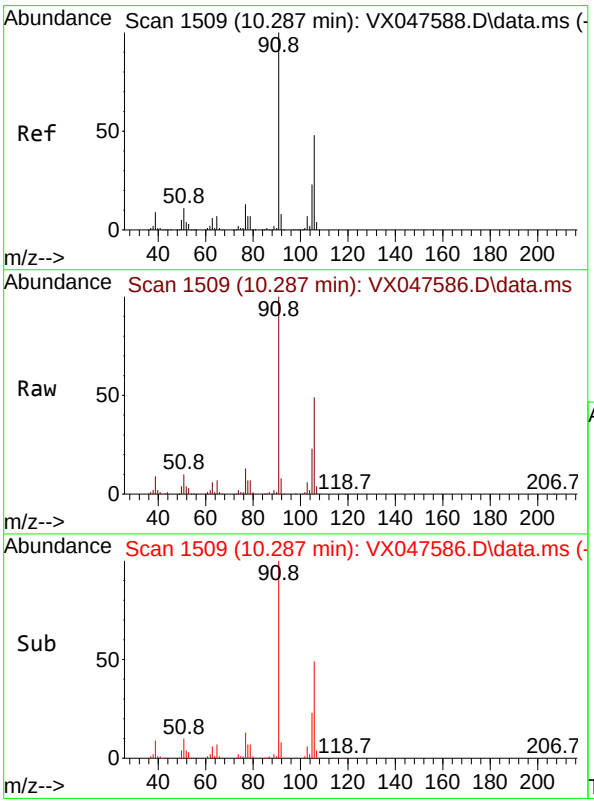
#67
Ethyl Benzene
Concen: 5.299 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 65908

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5

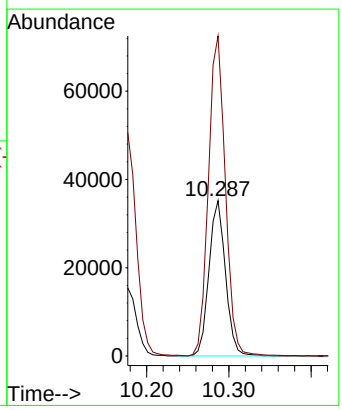


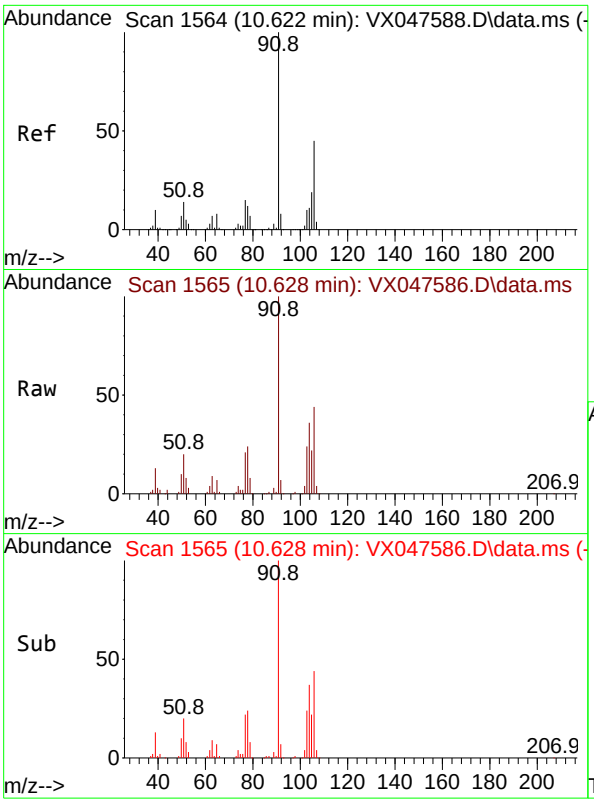


#68
m/p-Xylenes
Concen: 10.613 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:106 Resp: 49132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	167.8	251.8



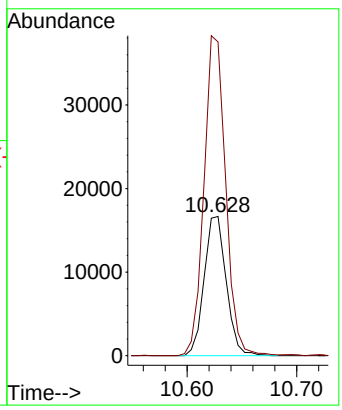


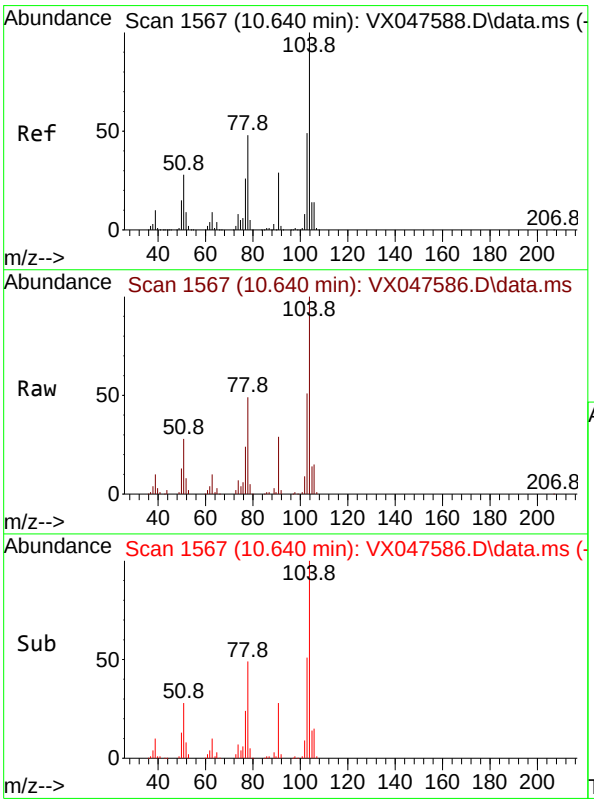
#69
o-Xylene
Concen: 5.204 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 23300

Ion	Ratio	Lower	Upper
106	100		
91	226.3	111.1	333.4

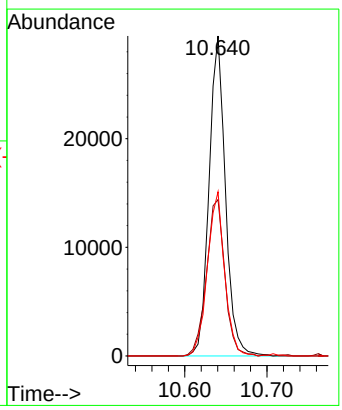


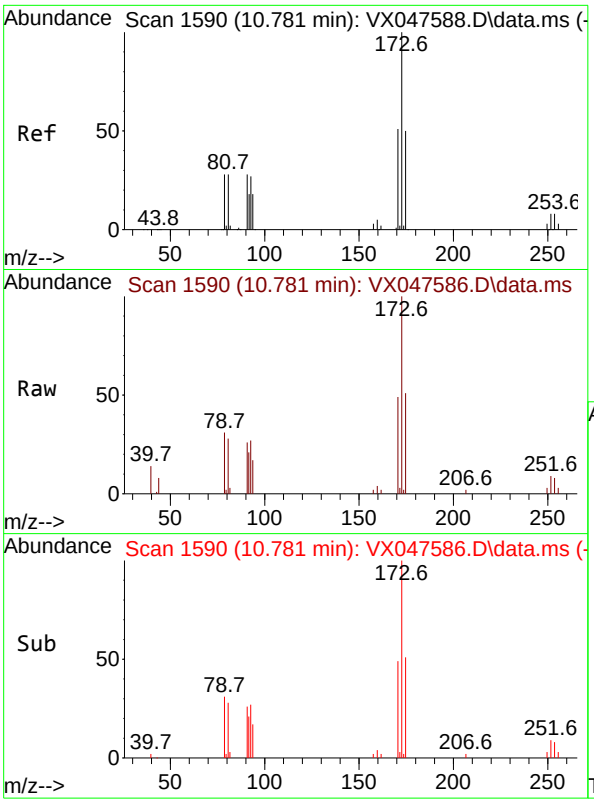


#70
Styrene
Concen: 5.210 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:104 Resp: 40872

Ion	Ratio	Lower	Upper
104	100		
78	54.8	43.1	64.7
103	53.7	43.1	64.7



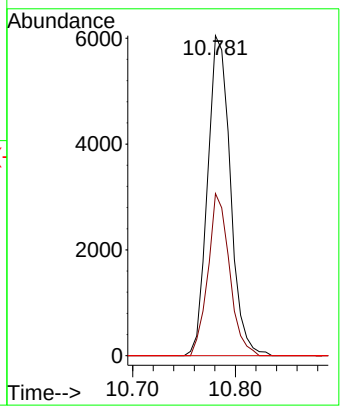


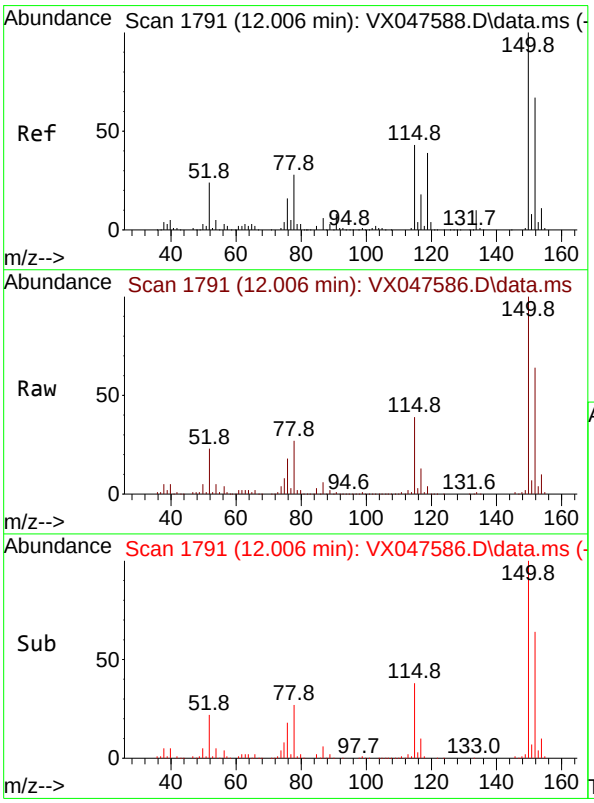
#71
Bromoform
Concen: 5.006 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 9298

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.9	74.6
254	0.0	0.1	0.1#

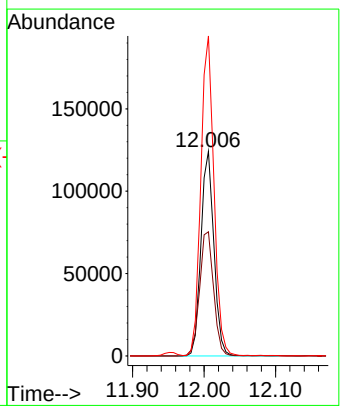


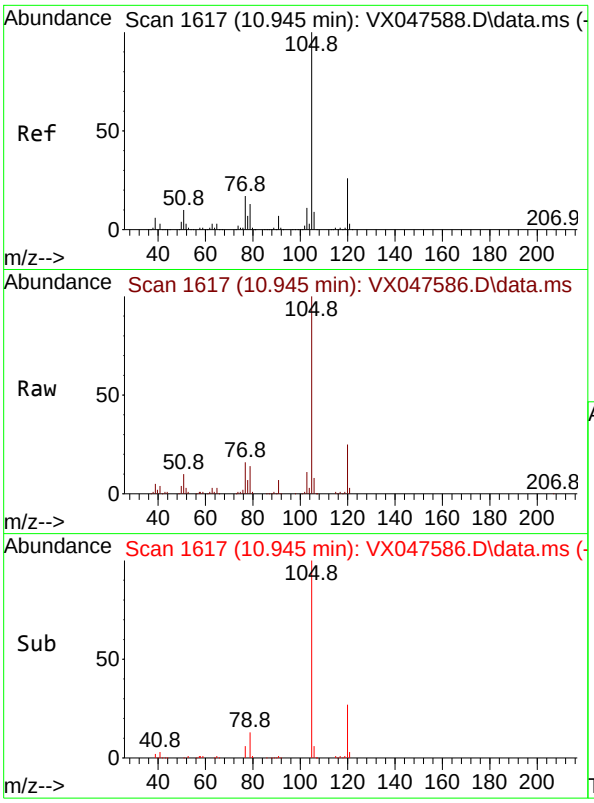


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:152 Resp: 156219

Ion	Ratio	Lower	Upper
152	100		
115	65.6	44.9	134.5
150	157.8	0.0	352.0



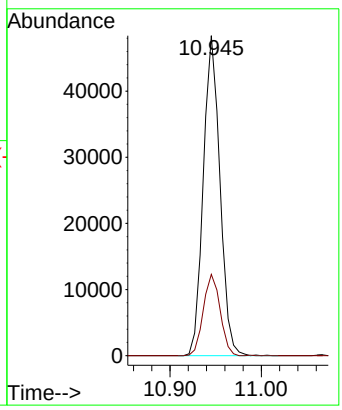


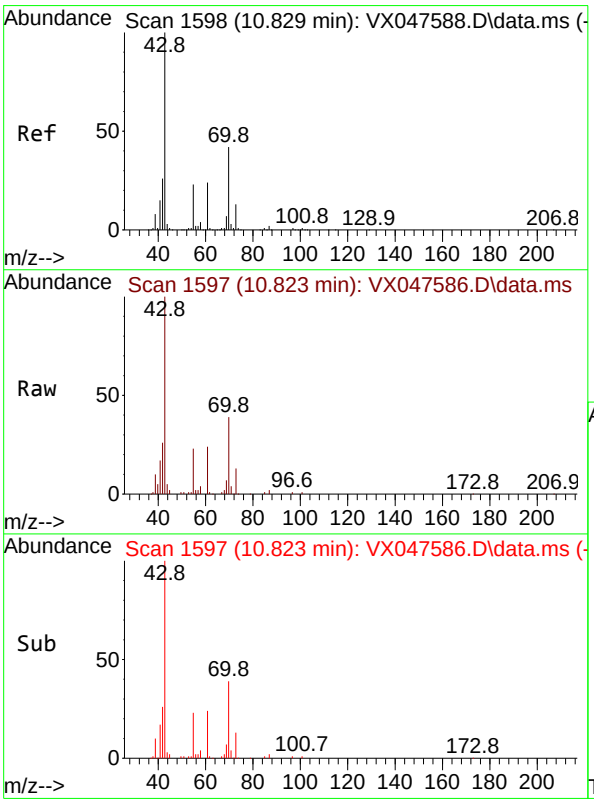
#73
Isopropylbenzene
Concen: 5.139 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 61029

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4

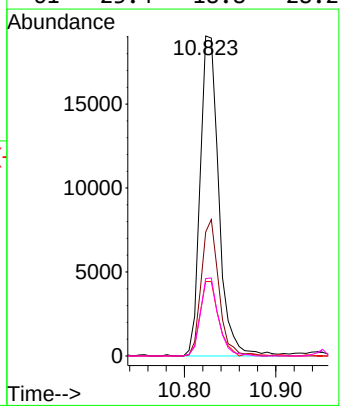


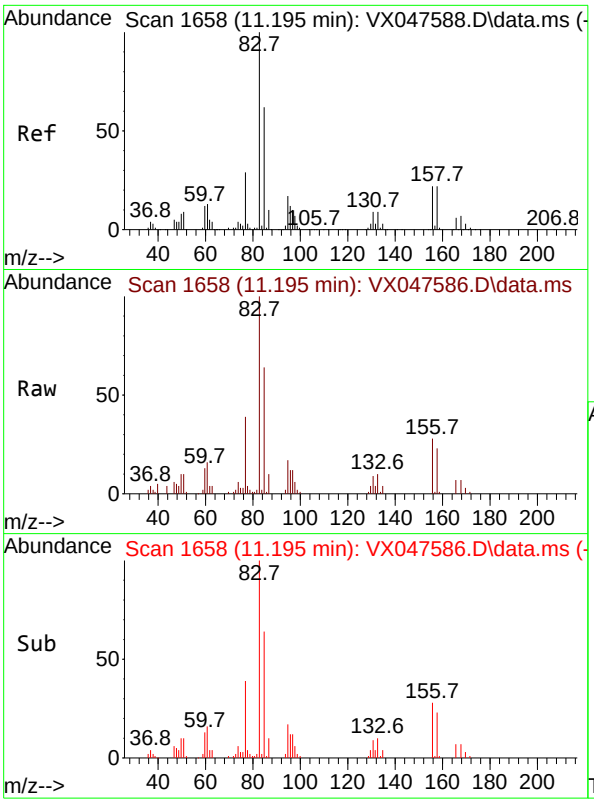


#74
N-amyl acetate
Concen: 4.980 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 26969

Ion	Ratio	Lower	Upper
43	100		
70	39.9	32.0	48.0
55	23.1	18.9	28.3
61	23.4	18.8	28.2



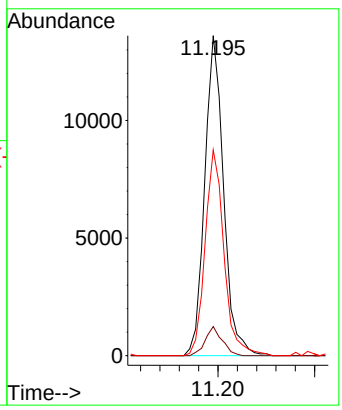


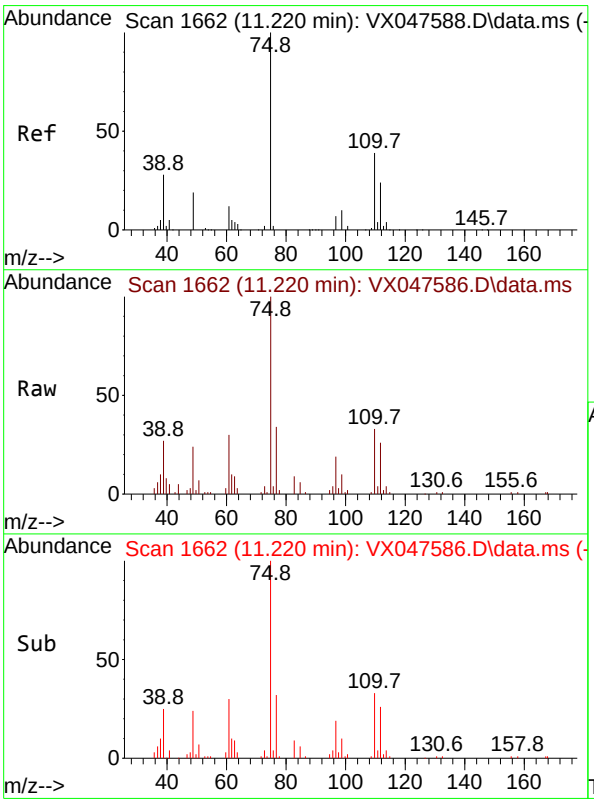
#75
1,1,2,2-Tetrachloroethane
Concen: 5.138 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 18462

Ion	Ratio	Lower	Upper
83	100		
131	8.2	5.0	14.9
85	64.4	31.6	95.0

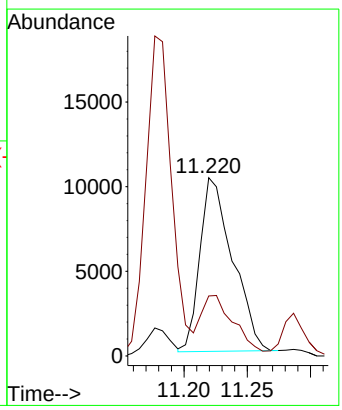


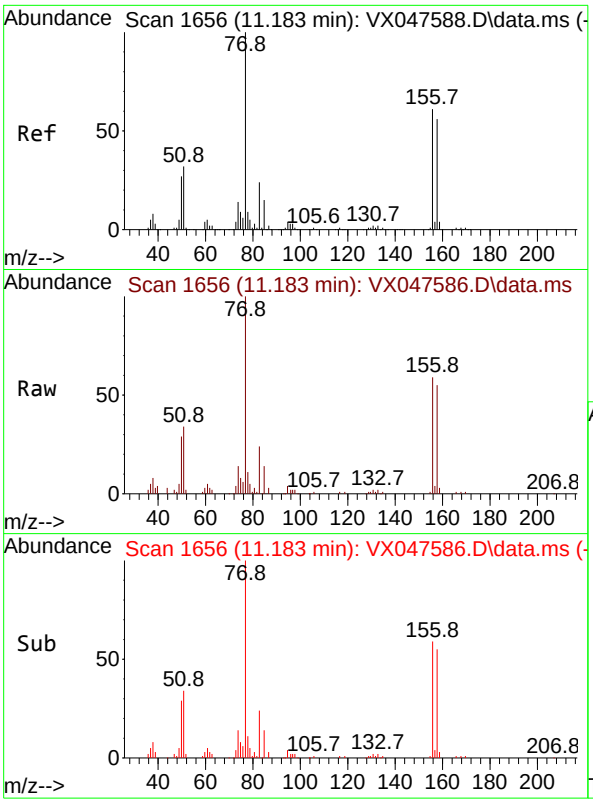


#76
1,2,3-Trichloropropane
Concen: 5.847 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 18494

Ion	Ratio	Lower	Upper
75	100		
77	35.0	18.8	56.4



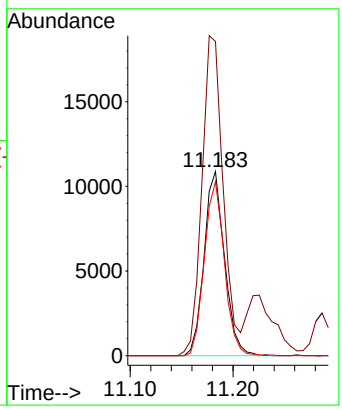


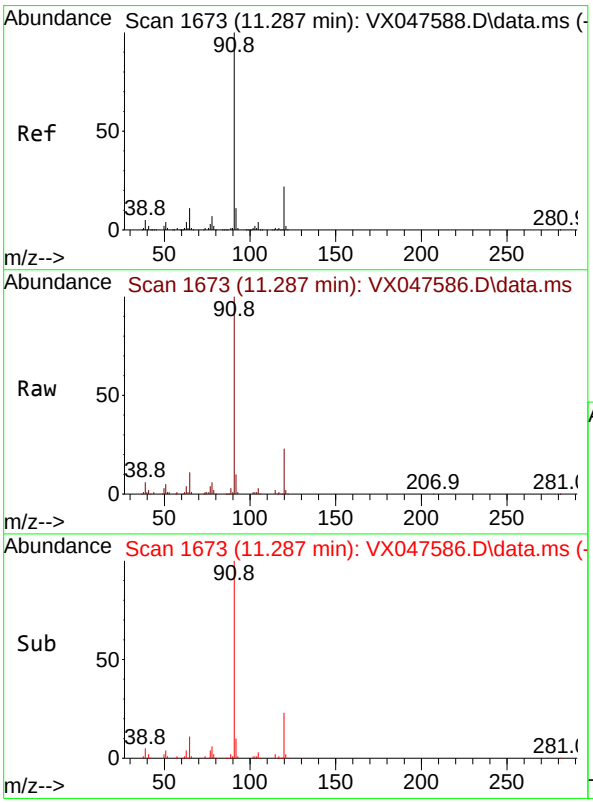
#77
Bromobenzene
Concen: 5.150 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 15066

Ion	Ratio	Lower	Upper
156	100		
77	180.3	89.7	269.1
158	92.6	47.9	143.6

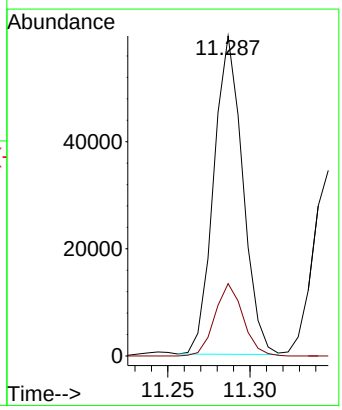


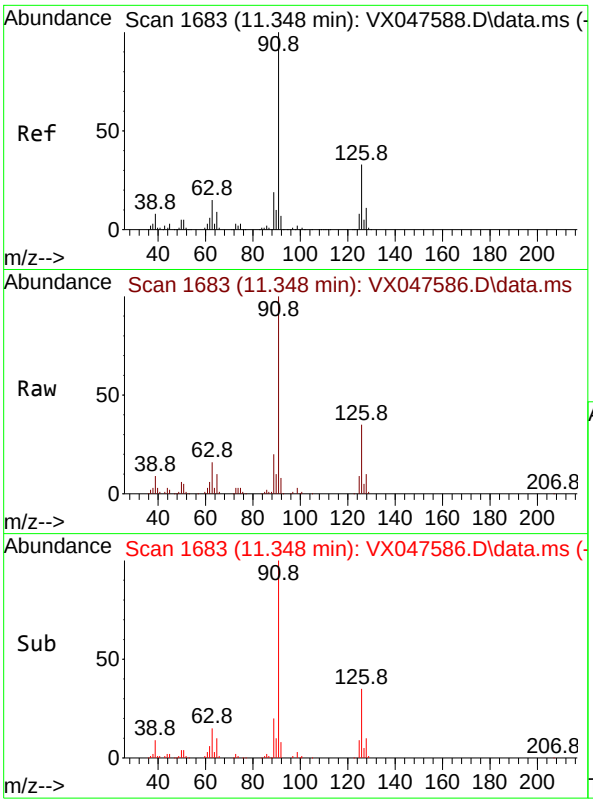


#78
n-propylbenzene
Concen: 5.192 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 72900

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.1



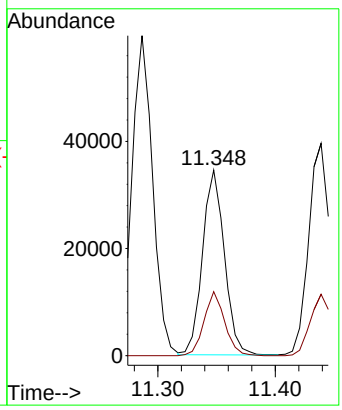


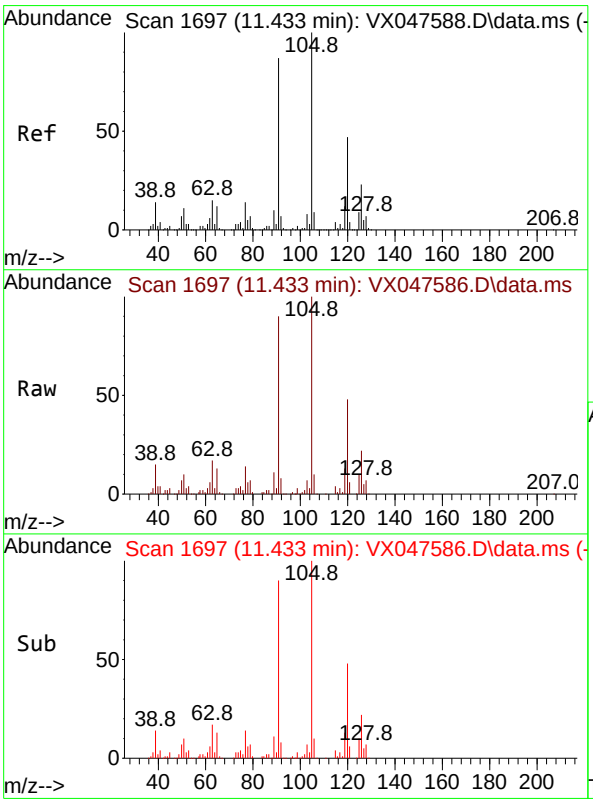
#79
2-Chlorotoluene
Concen: 5.194 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 44663

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

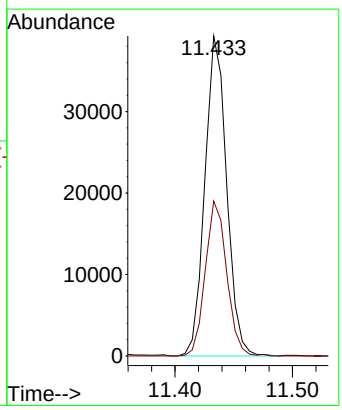


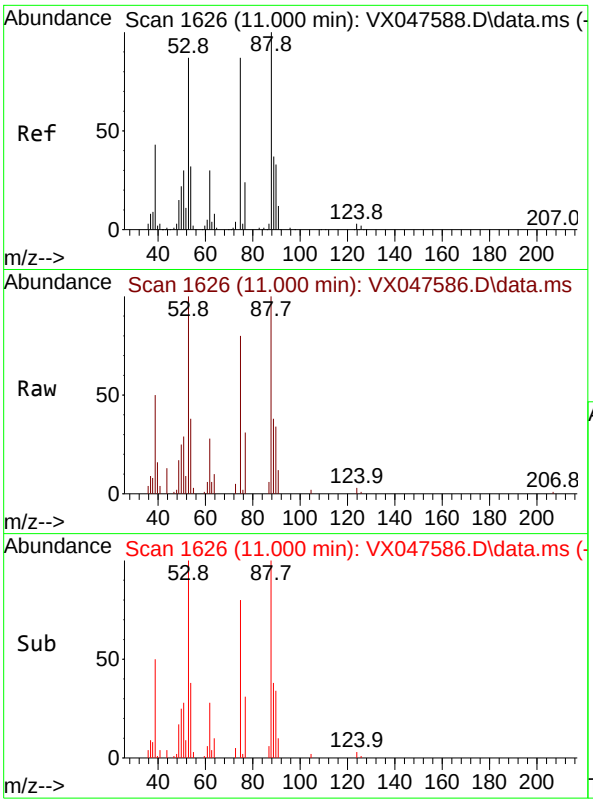


#80
1,3,5-Trimethylbenzene
Concen: 5.179 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 50535

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.6	70.8



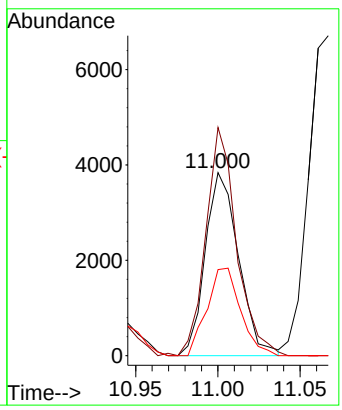


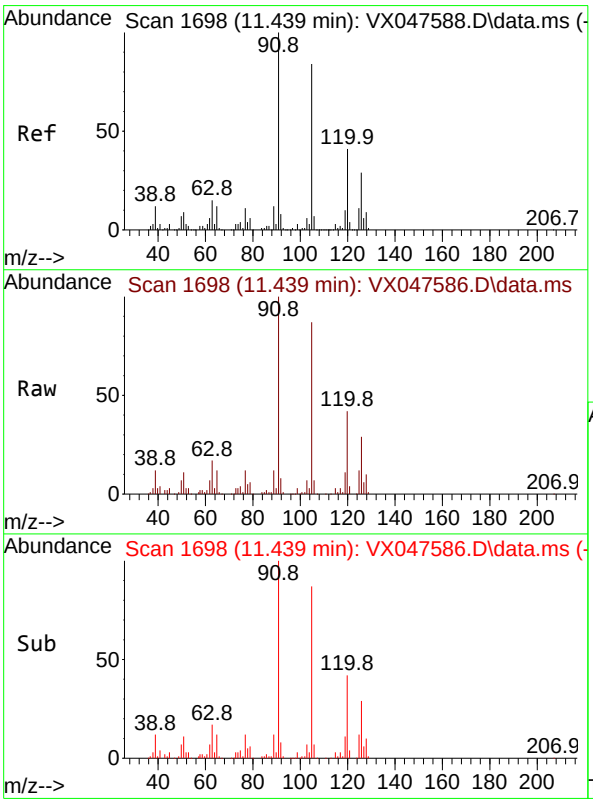
#81
trans-1,4-Dichloro-2-butene
Concen: 4.364 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 5413

Ion	Ratio	Lower	Upper
75	100		
53	114.9	83.4	125.2
89	48.3	36.3	54.5

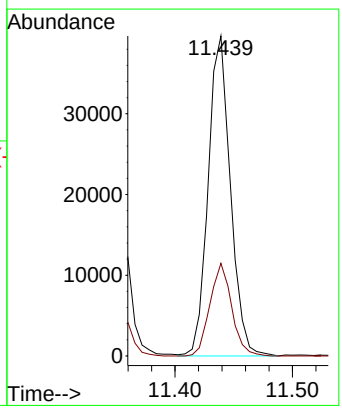


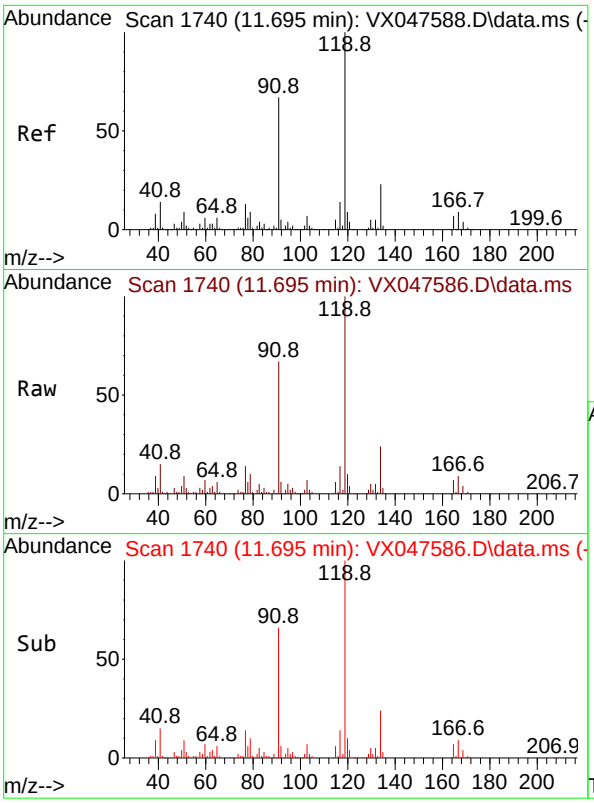


#82
4-Chlorotoluene
Concen: 5.149 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 52294

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.2	42.6



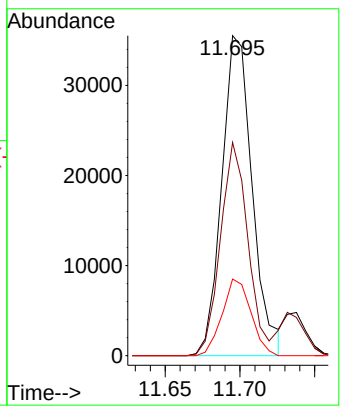


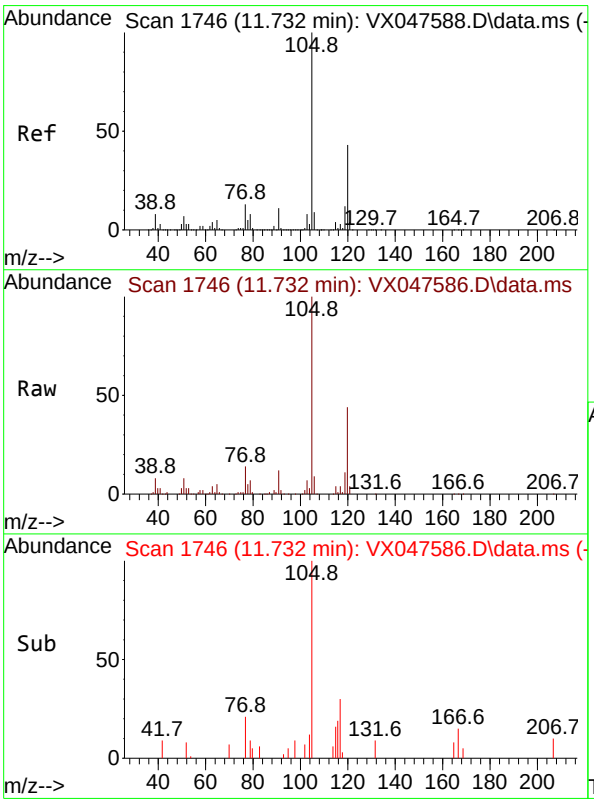
#83
tert-Butylbenzene
Concen: 5.041 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 50350

Ion	Ratio	Lower	Upper
119	100		
91	60.1	29.6	88.8
134	22.7	11.0	33.0

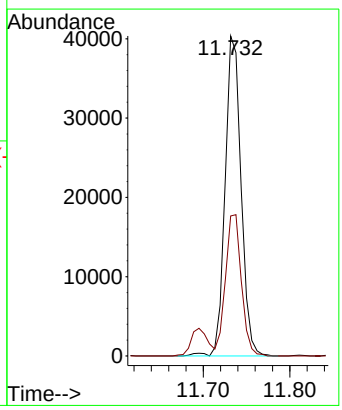


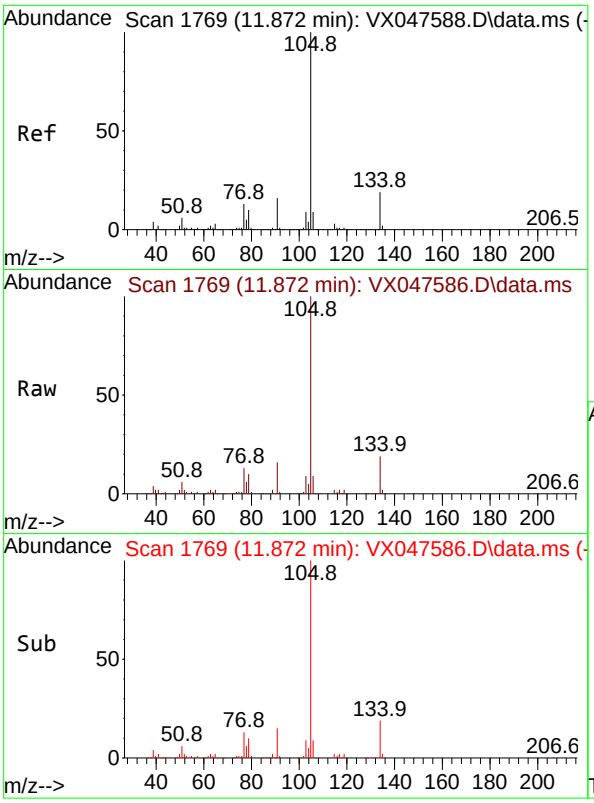


#84
1,2,4-Trimethylbenzene
Concen: 5.214 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 51583

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



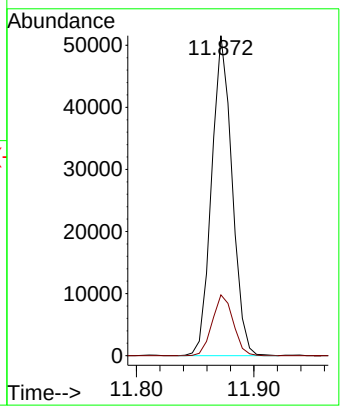


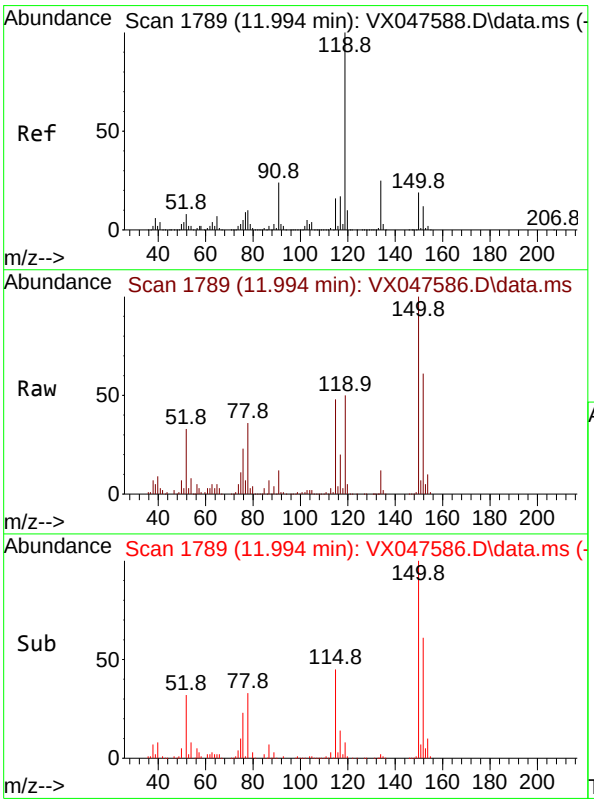
#85
sec-Butylbenzene
Concen: 5.268 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 62507

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

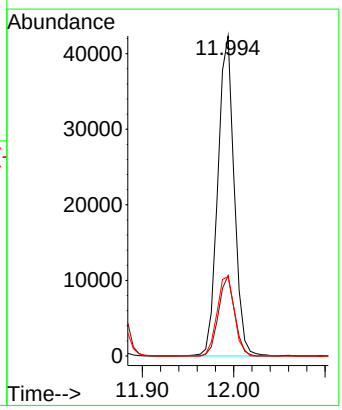


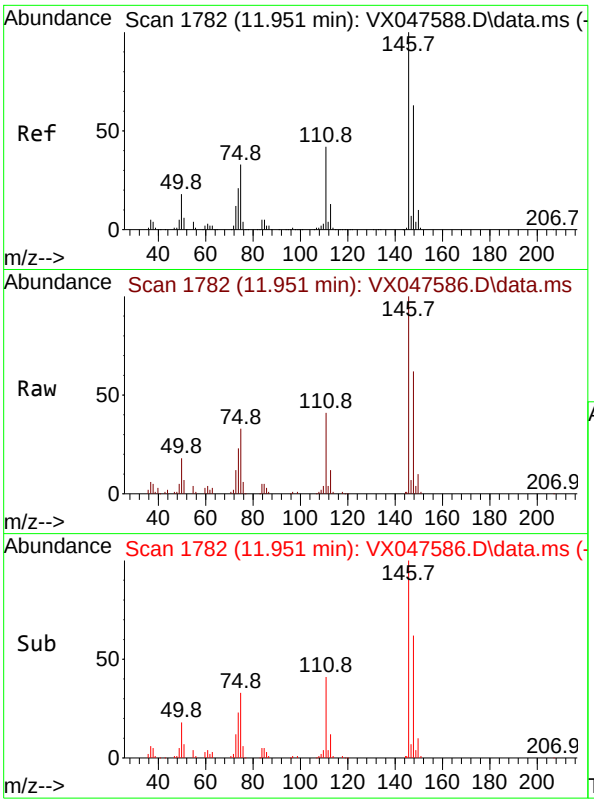


#86
p-Isopropyltoluene
Concen: 5.244 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:119 Resp: 52674

Ion	Ratio	Lower	Upper
119	100		
134	24.7	12.6	37.8
91	26.2	12.6	37.6



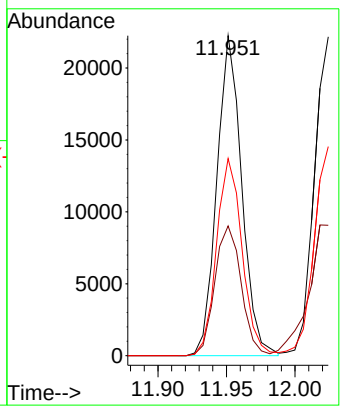


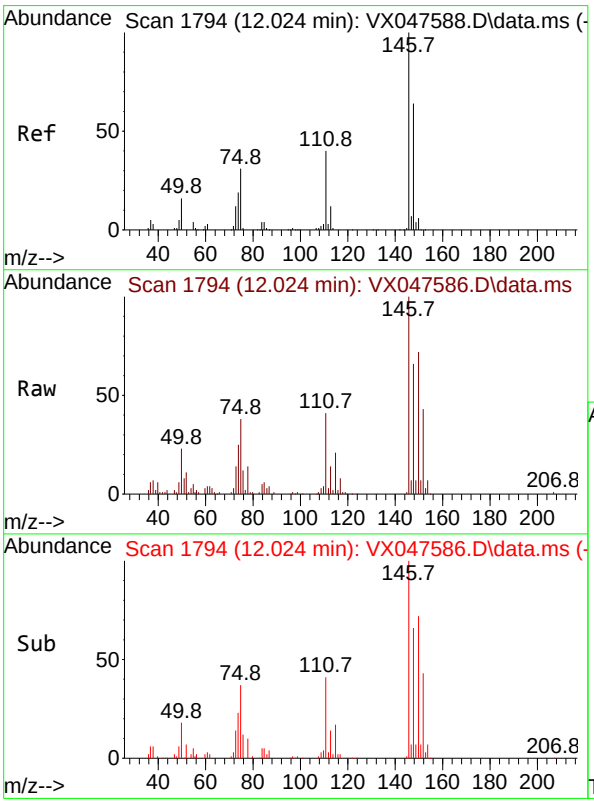
#87
1,3-Dichlorobenzene
Concen: 5.175 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 28116

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	63.4	32.0	96.0

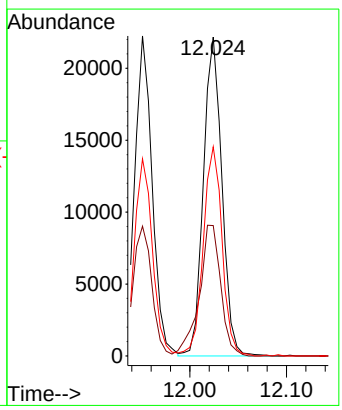


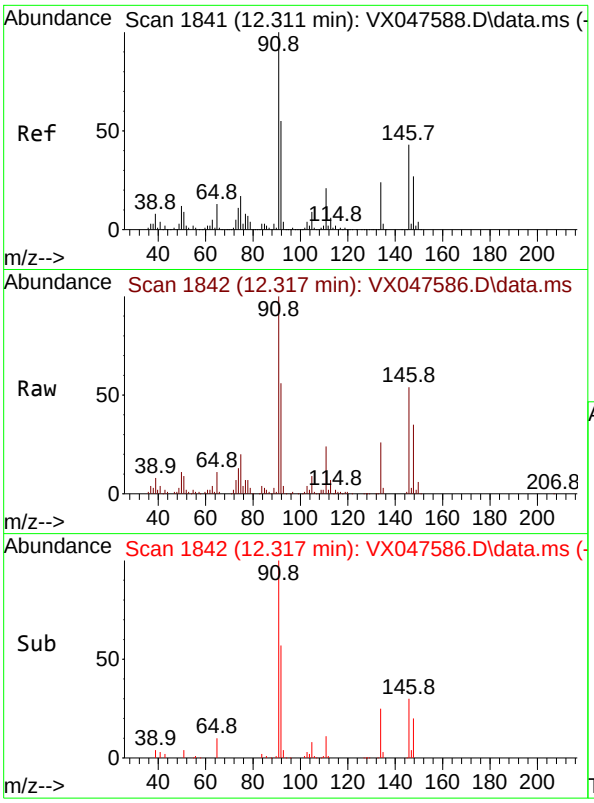


#88
1,4-Dichlorobenzene
Concen: 5.294 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 29519

Ion	Ratio	Lower	Upper
146	100		
111	47.8	20.8	62.4
148	66.9	31.7	95.1



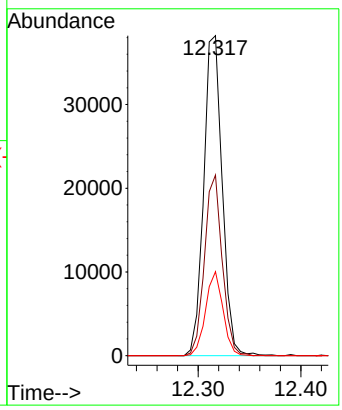


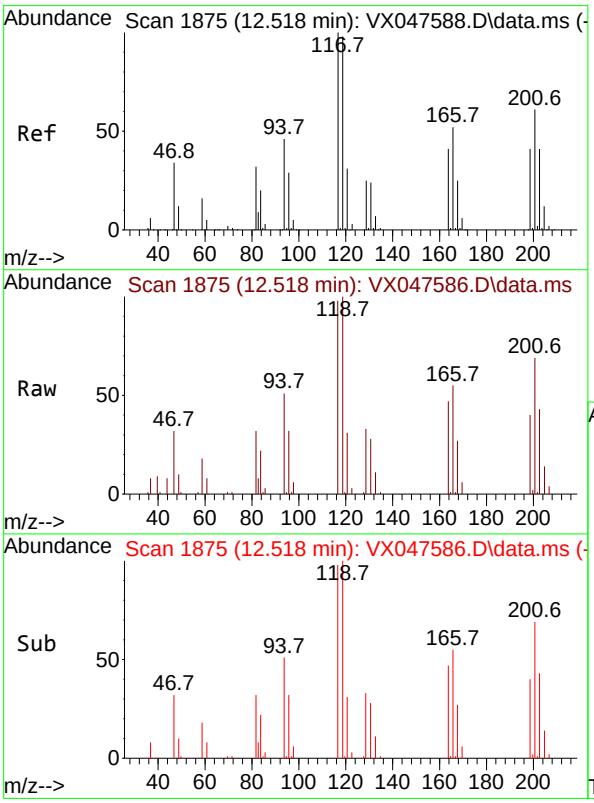
#89
n-Butylbenzene
Concen: 5.159 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 47953

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.6	82.7
134	24.6	12.6	37.8

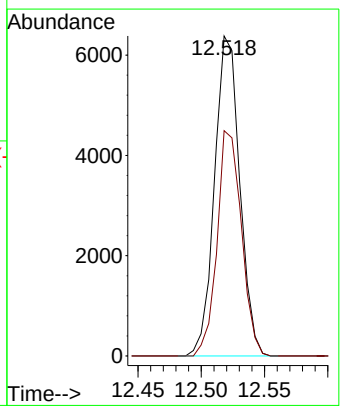


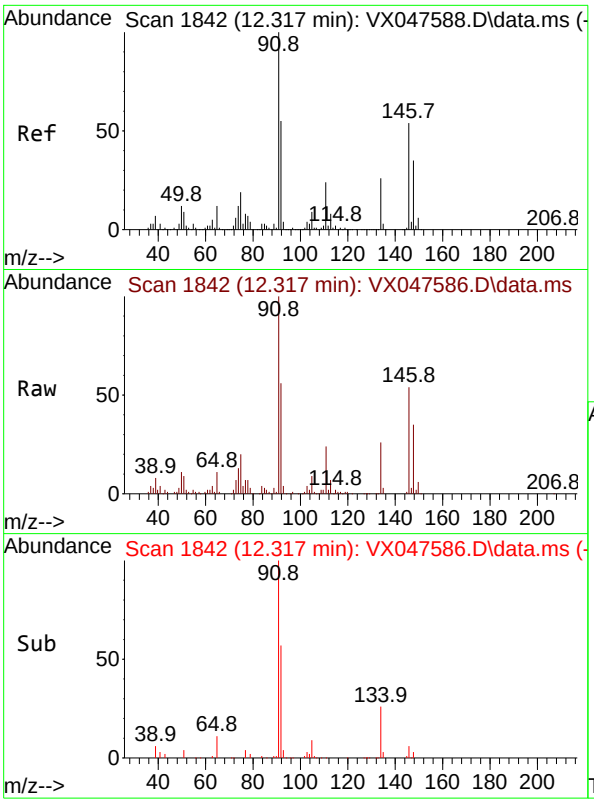


#90
Hexachloroethane
Concen: 5.007 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 8830

Ion	Ratio	Lower	Upper
117	100		
201	67.9	34.2	102.5



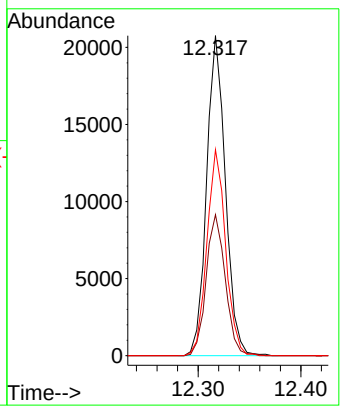


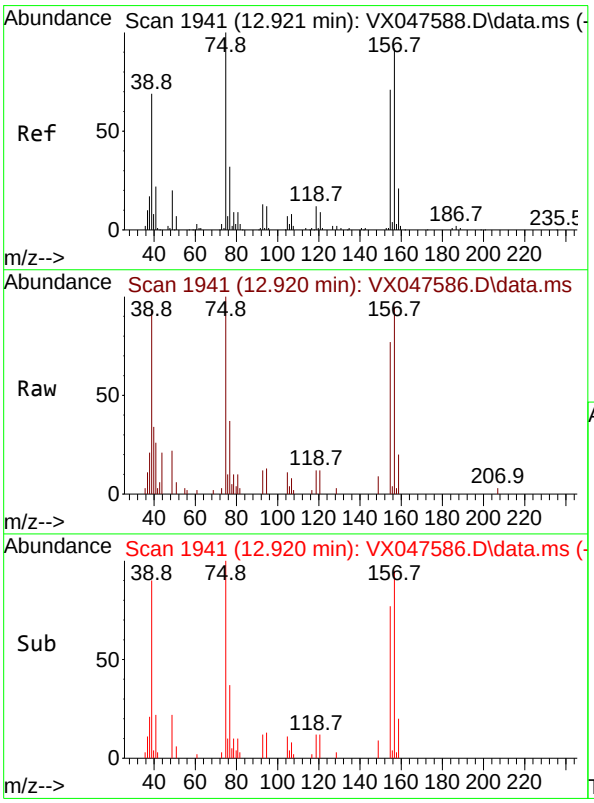
#91
1,2-Dichlorobenzene
Concen: 5.102 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 26409

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.2	66.6
148	64.2	31.8	95.4

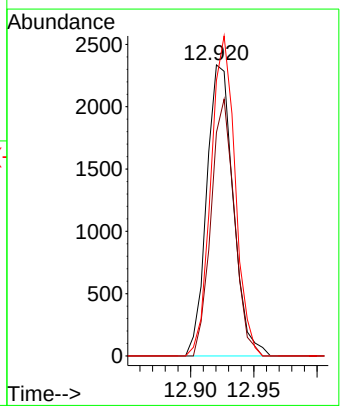


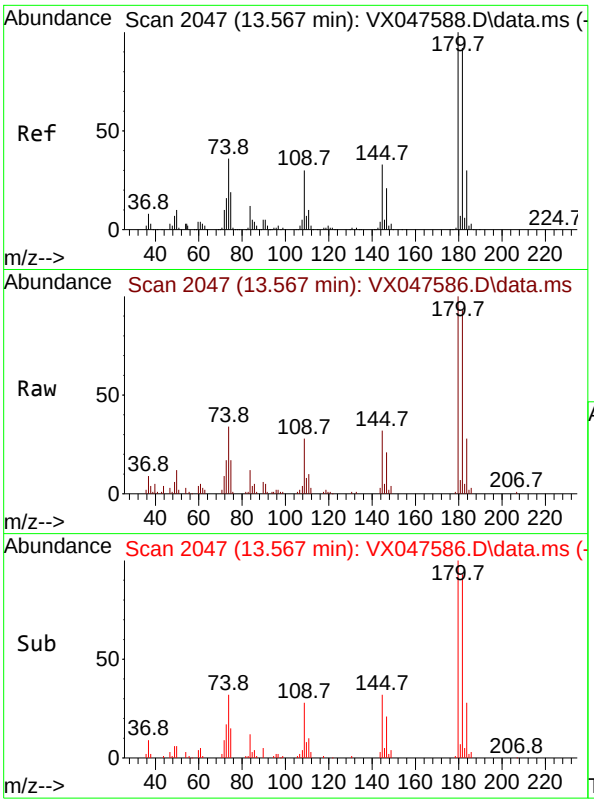


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.690 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 3412

Ion	Ratio	Lower	Upper
75	100		
155	77.4	37.7	113.1
157	100.1	49.8	149.4



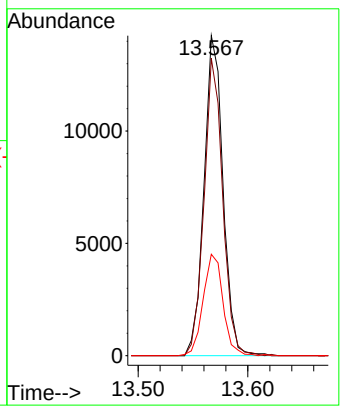


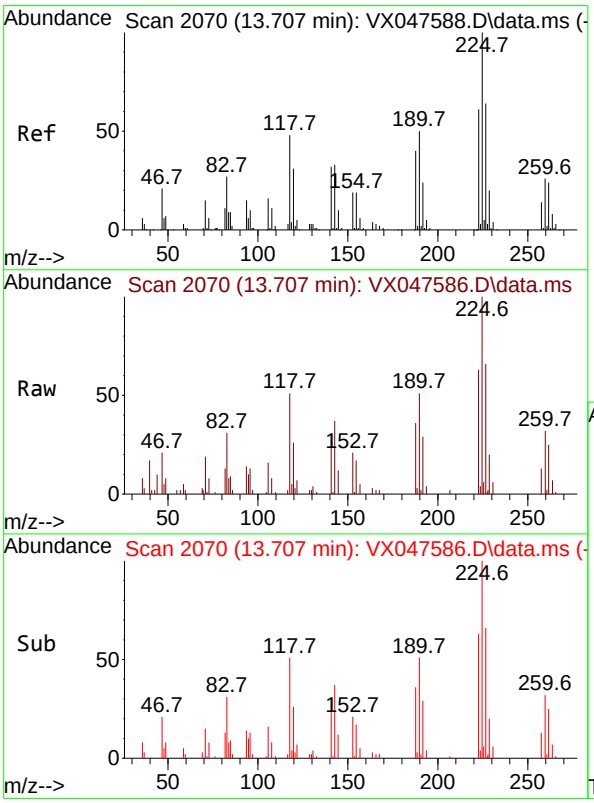
#93
1,2,4-Trichlorobenzene
Concen: 5.103 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 17167

Ion	Ratio	Lower	Upper
180	100		
182	91.2	46.6	139.8
145	33.2	16.4	49.1

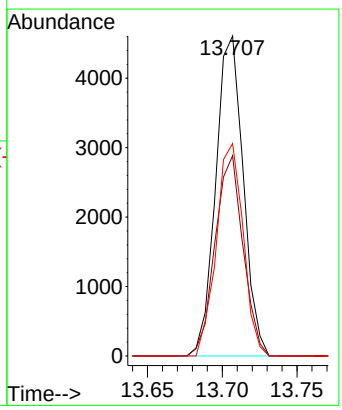


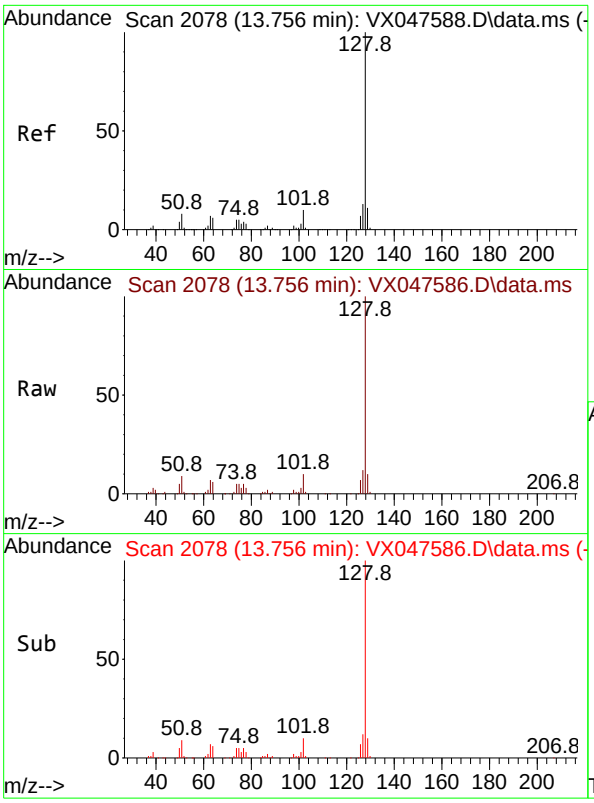


#94
Hexachlorobutadiene
Concen: 5.158 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:225 Resp: 5894

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.7	95.1
227	64.7	32.0	96.0



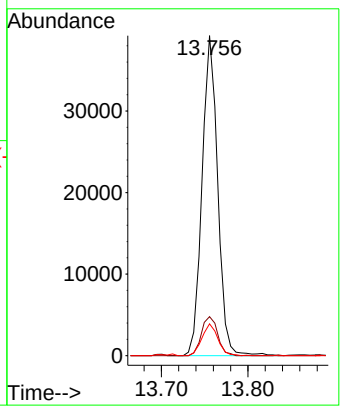


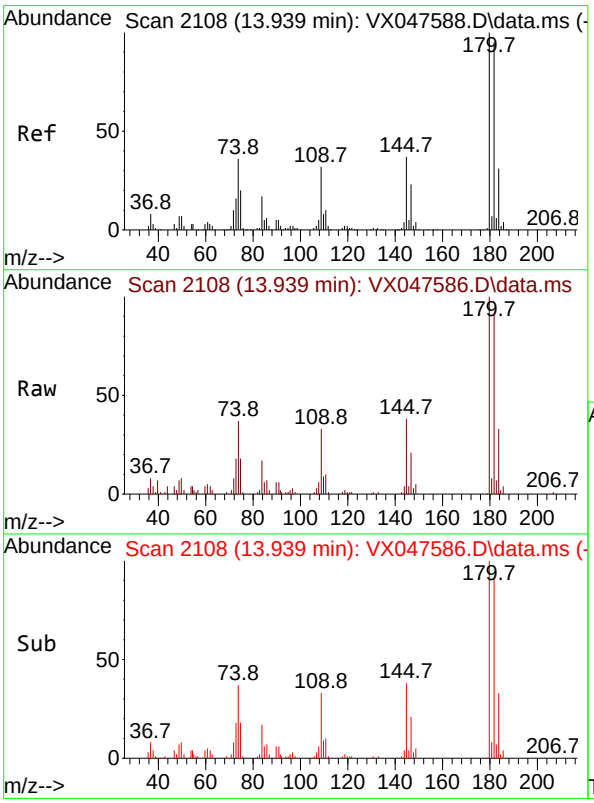
#95
Naphthalene
Concen: 4.808 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 49257

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.1	8.8	13.2

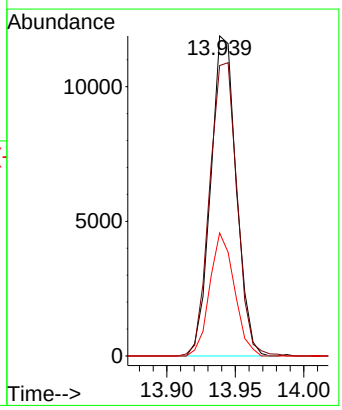




#96
1,2,3-Trichlorobenzene
Concen: 4.921 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:180 Resp: 15400

Ion	Ratio	Lower	Upper
180	100		
182	98.0	47.6	142.8
145	37.1	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Sep 22 01:49:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	189559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	336287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	49073	16.264	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 32.520%#			
35) Dibromofluoromethane	5.379	113	35788	15.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 31.740%#			
50) Toluene-d8	8.634	98	126875	16.258	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 32.520%#			
62) 4-Bromofluorobenzene	11.067	95	48454	16.360	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 32.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	44126	22.480	ug/l	100
3) Chloromethane	1.300	50	56023	21.716	ug/l	96
4) Vinyl Chloride	1.386	62	54256	21.485	ug/l	96
5) Bromomethane	1.617	94	34193	21.353	ug/l	100
6) Chloroethane	1.697	64	35551	21.063	ug/l	97
7) Trichlorofluoromethane	1.898	101	78667	20.980	ug/l	100
8) Diethyl Ether	2.136	74	31335	20.429	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	45733	20.859	ug/l	98
10) Methyl Iodide	2.459	142	69935	20.452	ug/l	99
11) Tert butyl alcohol	2.946	59	32456	96.582	ug/l	98
12) 1,1-Dichloroethene	2.325	96	46863	20.808	ug/l	96
13) Acrolein	2.239	56	26159	84.473	ug/l	100
14) Allyl chloride	2.666	41	94710	20.379	ug/l	97
15) Acrylonitrile	3.062	53	130143	104.554	ug/l	99
16) Acetone	2.373	43	151538	115.507	ug/l	100
17) Carbon Disulfide	2.520	76	133296	21.620	ug/l	98
18) Methyl Acetate	2.703	43	54120	18.536	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	168426	20.486	ug/l	98
20) Methylene Chloride	2.788	84	57153	20.581	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50413	20.791	ug/l	94
22) Diisopropyl ether	3.757	45	188598	20.940	ug/l	96
23) Vinyl Acetate	3.715	43	765675	106.218	ug/l	100
24) 1,1-Dichloroethane	3.605	63	98509	20.578	ug/l	99
25) 2-Butanone	4.538	43	179487	109.679	ug/l	94
26) 2,2-Dichloropropane	4.471	77	81413	20.459	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	60865	20.497	ug/l	98
28) Bromochloromethane	4.891	49	34085	16.309	ug/l	100
29) Tetrahydrofuran	4.995	42	102935	104.560	ug/l	97
30) Chloroform	5.080	83	103586	21.413	ug/l	99
31) Cyclohexane	5.464	56	82770	20.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	86500	21.081	ug/l	99
36) 1,1-Dichloropropene	5.684	75	68395	20.754	ug/l	99
37) Ethyl Acetate	4.702	43	74499	21.113	ug/l	96
38) Carbon Tetrachloride	5.665	117	74636	20.844	ug/l	95
39) Methylcyclohexane	7.366	83	79499	21.251	ug/l	98
40) Benzene	6.025	78	210711	21.051	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Sep 22 01:49:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	38525	21.148	ug/l		99
42) 1,2-Dichloroethane	6.074	62	80646	21.175	ug/l		99
43) Isopropyl Acetate	6.324	43	119623	20.670	ug/l		100
44) Trichloroethene	7.110	130	51369	21.228	ug/l		97
45) 1,2-Dichloropropane	7.415	63	53046	20.697	ug/l		97
46) Dibromomethane	7.568	93	38910	20.862	ug/l		99
47) Bromodichloromethane	7.805	83	80831	21.002	ug/l		98
48) Methyl methacrylate	7.677	41	60182	20.877	ug/l		98
49) 1,4-Dioxane	7.647	88	12047	413.530	ug/l		95
51) 4-Methyl-2-Pentanone	8.561	43	338370	105.456	ug/l		100
52) Toluene	8.708	92	129193	20.950	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	80972	20.625	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	86648	20.650	ug/l		99
55) 1,1,2-Trichloroethane	9.140	97	49857	20.967	ug/l		98
56) Ethyl methacrylate	9.104	69	79011	21.158	ug/l		99
57) 1,3-Dichloropropane	9.293	76	85511	20.934	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	141395	86.617	ug/l		100
59) 2-Hexanone	9.415	43	250007	108.488	ug/l		99
60) Dibromochloromethane	9.506	129	57994	21.167	ug/l		99
61) 1,2-Dibromoethane	9.598	107	51614	21.310	ug/l		99
64) Tetrachloroethene	9.262	164	40840	20.979	ug/l		95
65) Chlorobenzene	10.061	112	140642	20.731	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	48022	20.513	ug/l		99
67) Ethyl Benzene	10.177	91	244737	20.907	ug/l		98
68) m/p-Xylenes	10.287	106	182778	41.951	ug/l		100
69) o-Xylene	10.628	106	87651	20.799	ug/l		98
70) Styrene	10.640	104	154077	20.866	ug/l		99
71) Bromoform	10.780	173	35922	20.550	ug/l	#	98
73) Isopropylbenzene	10.945	105	225730	20.970	ug/l		99
74) N-amyl acetate	10.829	43	104823	21.354	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	68132	20.920	ug/l		99
76) 1,2,3-Trichloropropane	11.225	75	76996	26.858	ug/l		89
77) Bromobenzene	11.183	156	56161	21.183	ug/l		99
78) n-propylbenzene	11.286	91	268399	21.092	ug/l		100
79) 2-Chlorotoluene	11.347	91	166237	21.329	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	187513	21.202	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	21553	19.173	ug/l		96
82) 4-Chlorotoluene	11.439	91	193122	20.980	ug/l		100
83) tert-Butylbenzene	11.695	119	189484	20.929	ug/l		100
84) 1,2,4-Trimethylbenzene	11.738	105	191477	21.355	ug/l		98
85) sec-Butylbenzene	11.872	105	223434	20.777	ug/l		100
86) p-Isopropyltoluene	11.994	119	190931	20.972	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	103584	21.035	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	105819	20.937	ug/l		99
89) n-Butylbenzene	12.317	91	176373	20.937	ug/l		99
90) Hexachloroethane	12.518	117	32526	20.349	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	99493	21.207	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	13729	20.821	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	62722	20.571	ug/l		96
94) Hexachlorobutadiene	13.707	225	20456	19.751	ug/l		98
95) Naphthalene	13.756	128	193134	20.801	ug/l		99
96) 1,2,3-Trichlorobenzene	13.938	180	58409	20.593	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Sep 22 01:49:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

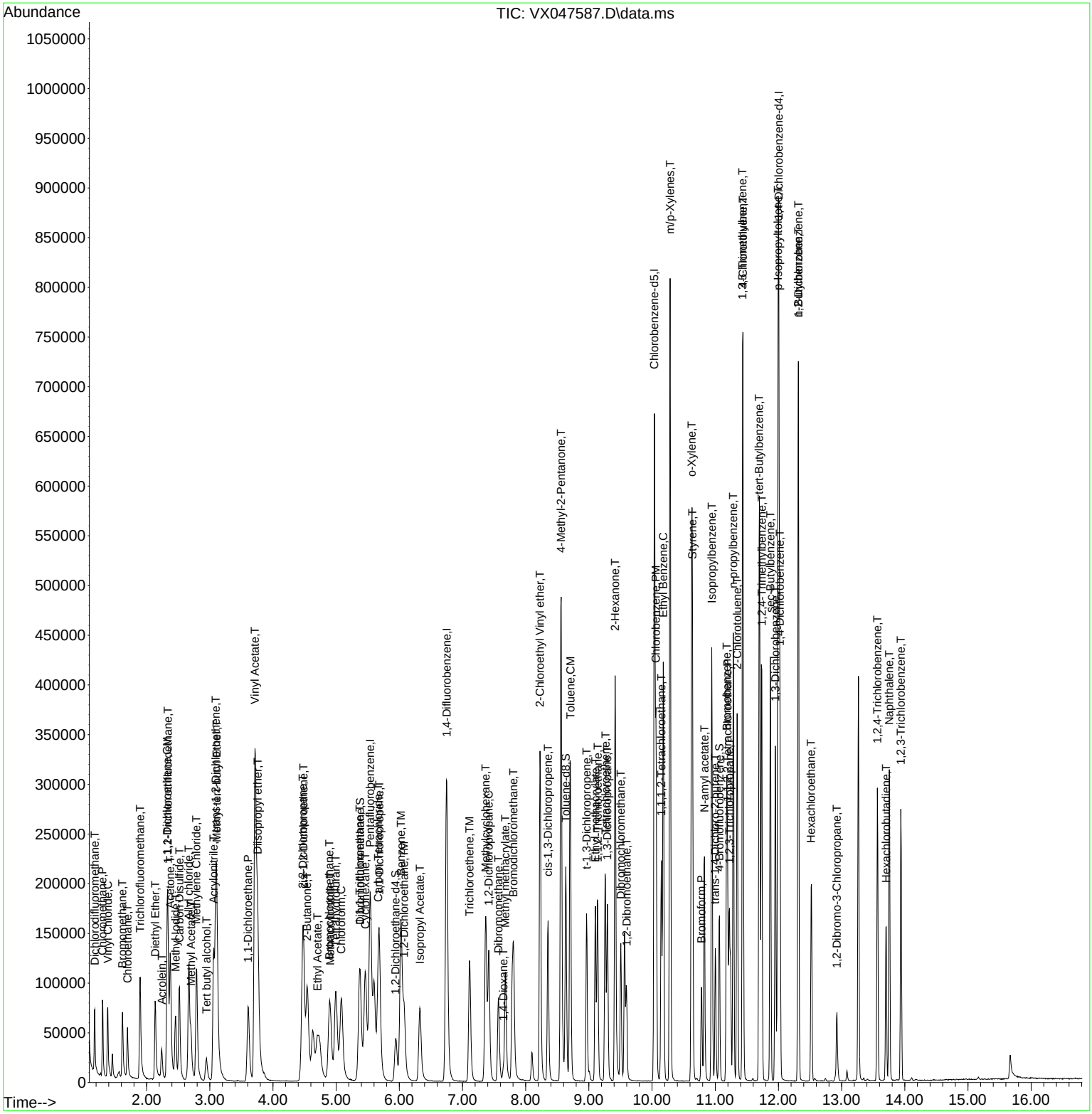
(#) = qualifier out of range (m) = manual integration (+) = signals summed

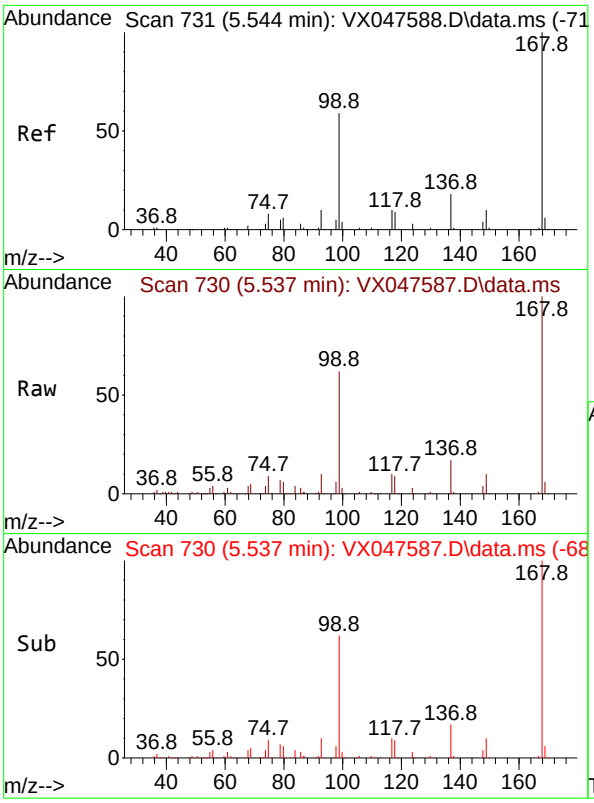
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Sep 22 01:49:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



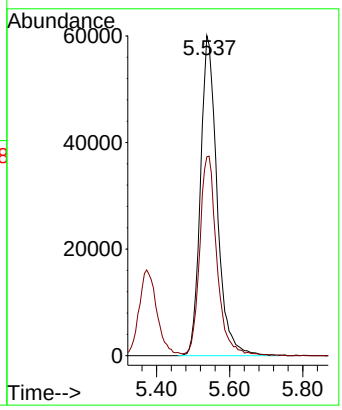


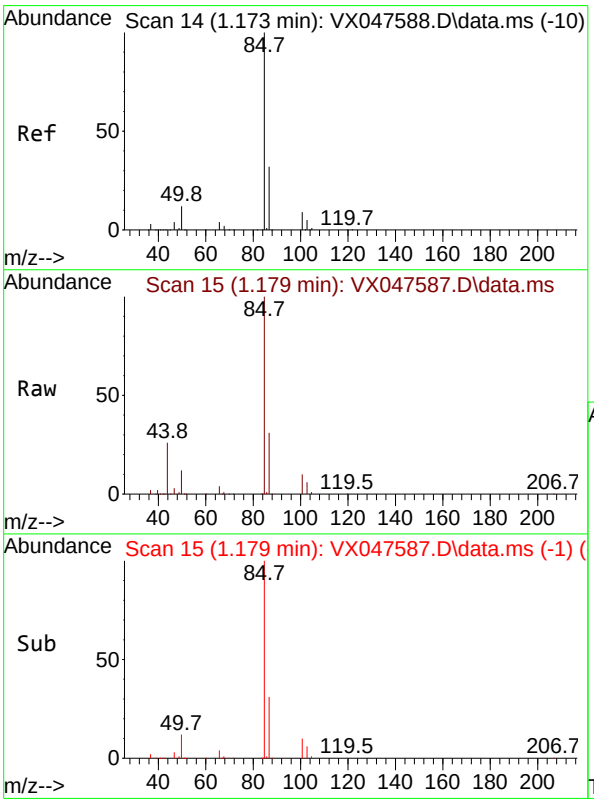
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 189559

Ion	Ratio	Lower	Upper
168	100		
99	61.9	48.8	73.2

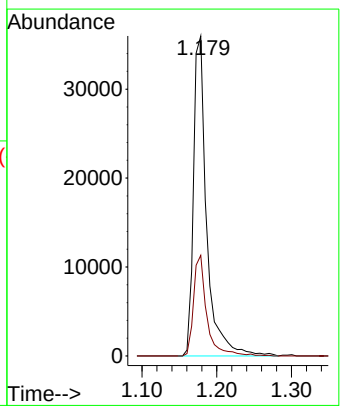


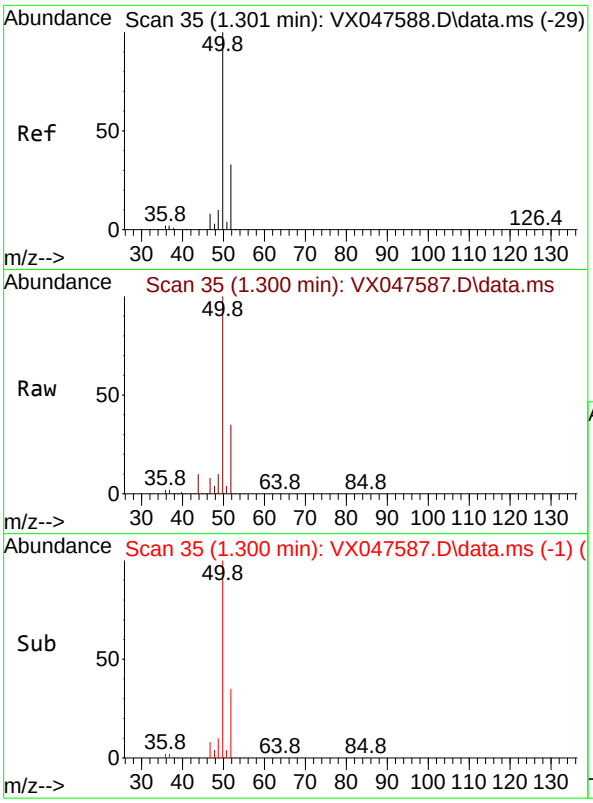


#2
Dichlorodifluoromethane
Concen: 22.480 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 85 Resp: 44126

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3



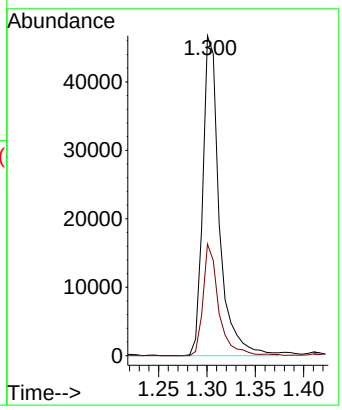


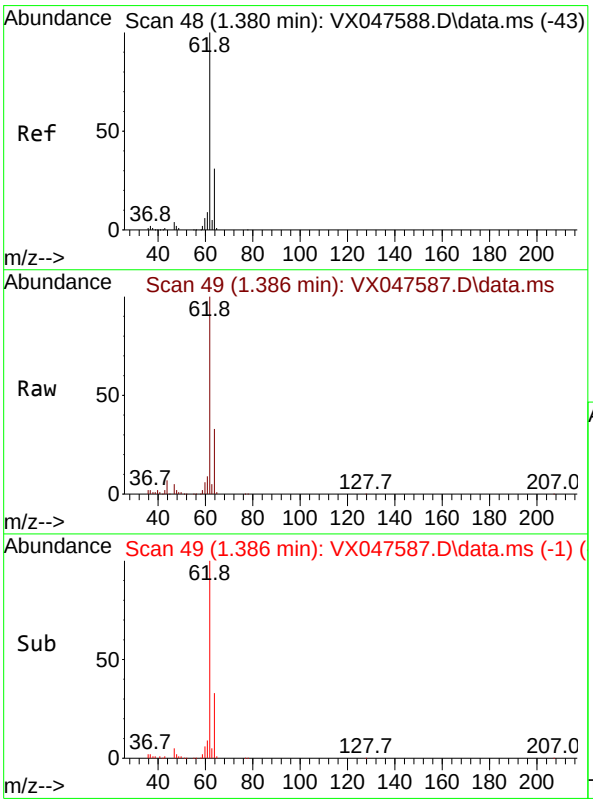
#3
Chloromethane
Concen: 21.716 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 56023

Ion	Ratio	Lower	Upper
50	100		
52	34.9	26.1	39.1

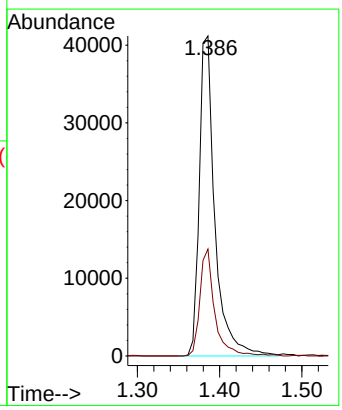


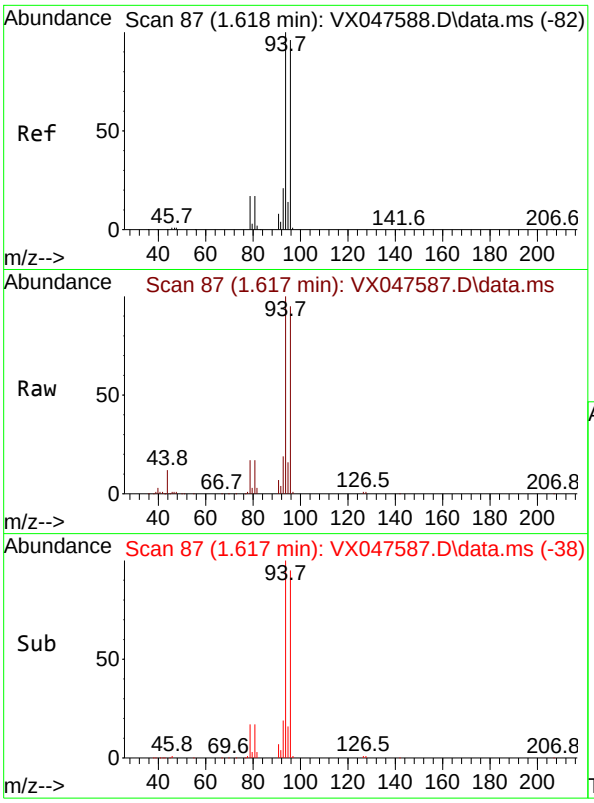


#4
Vinyl Chloride
Concen: 21.485 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 54256

Ion	Ratio	Lower	Upper
62	100		
64	33.4	24.9	37.3



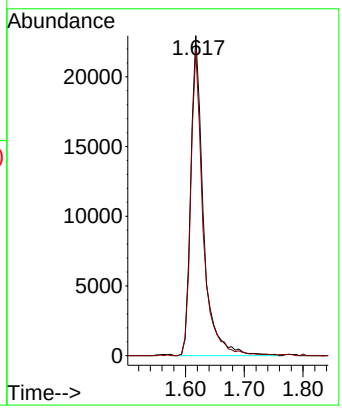


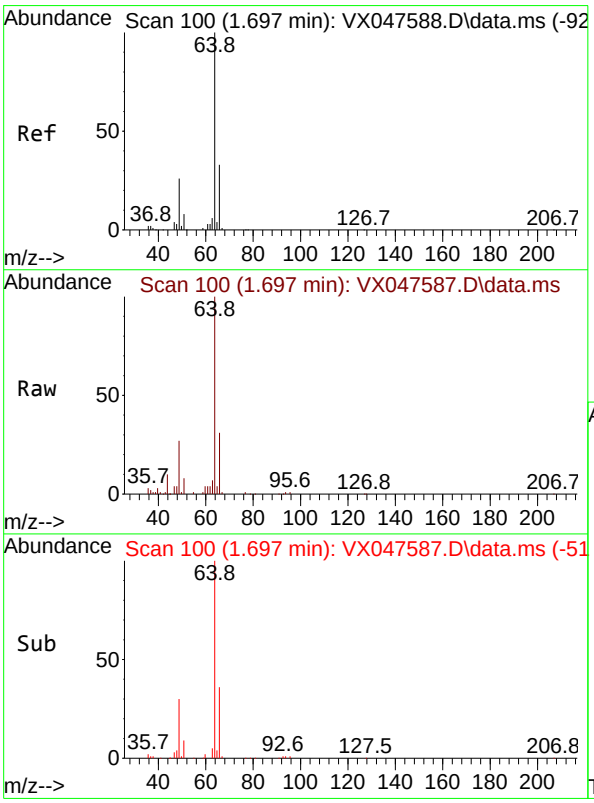
#5
Bromomethane
Concen: 21.353 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 34193

Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.6	115.0

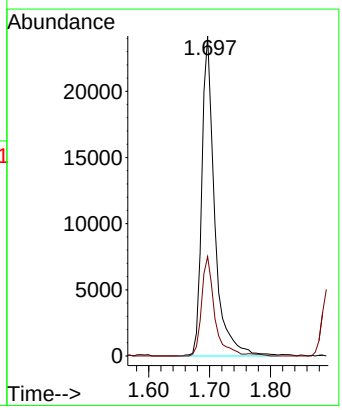


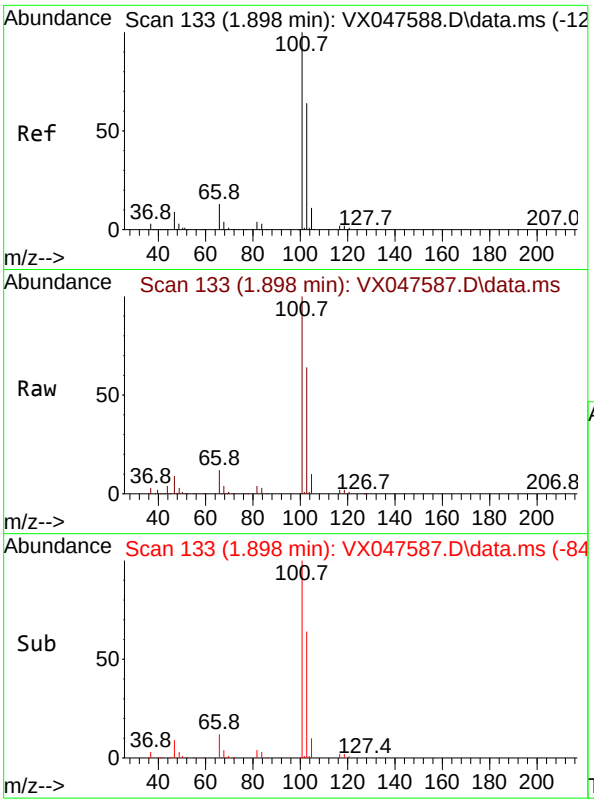


#6
Chloroethane
Concen: 21.063 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 64 Resp: 35551

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.1	39.1



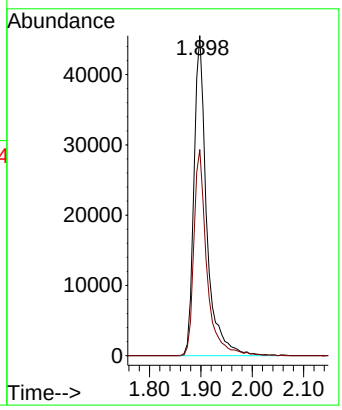


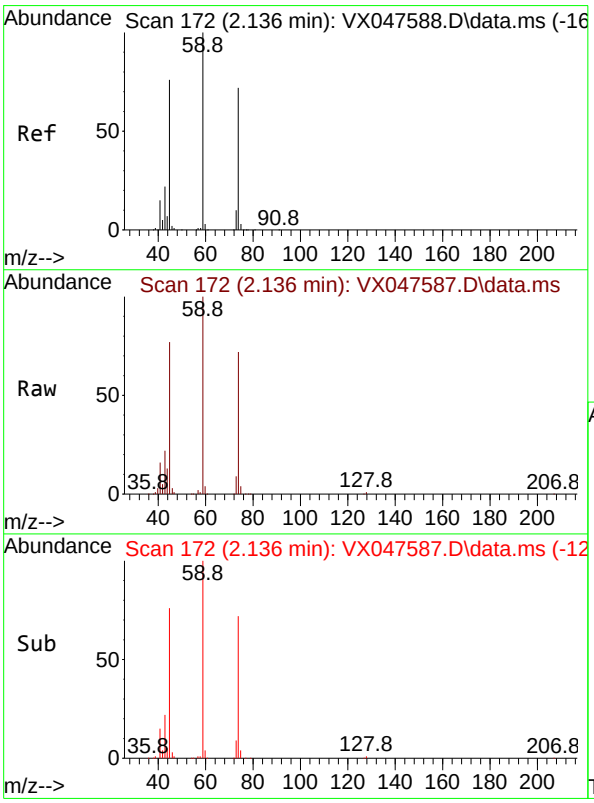
#7
Trichlorofluoromethane
Concen: 20.980 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 78667

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2

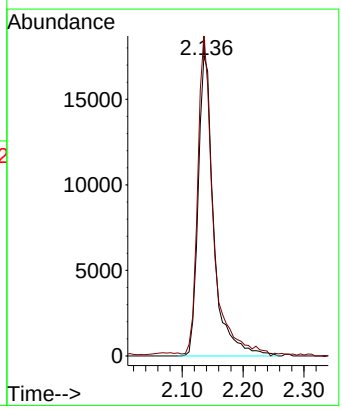


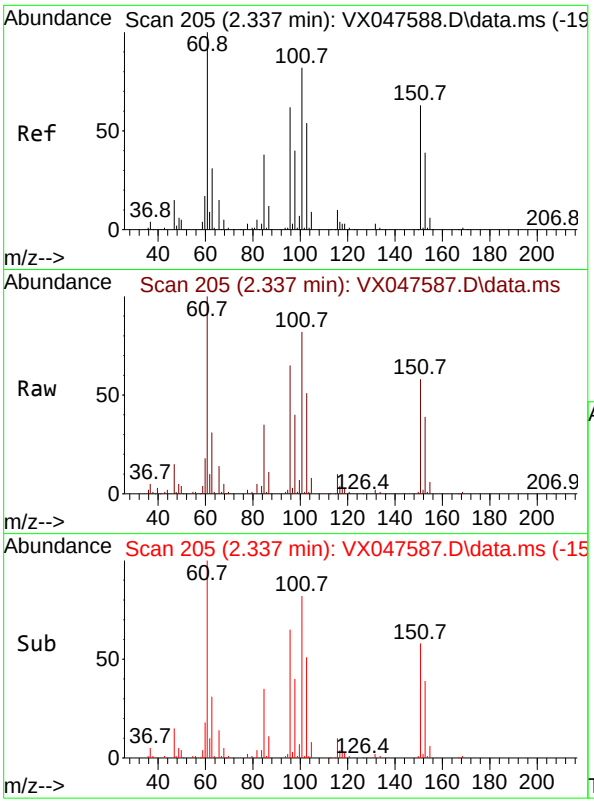


#8
Diethyl Ether
Concen: 20.429 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 74 Resp: 31335

Ion	Ratio	Lower	Upper
74	100		
45	107.0	52.3	156.8



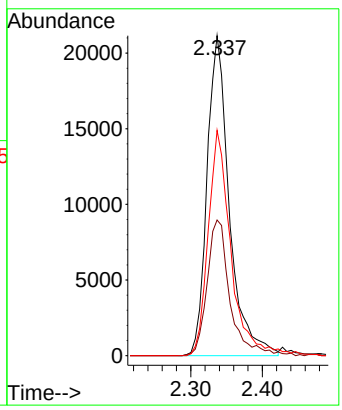


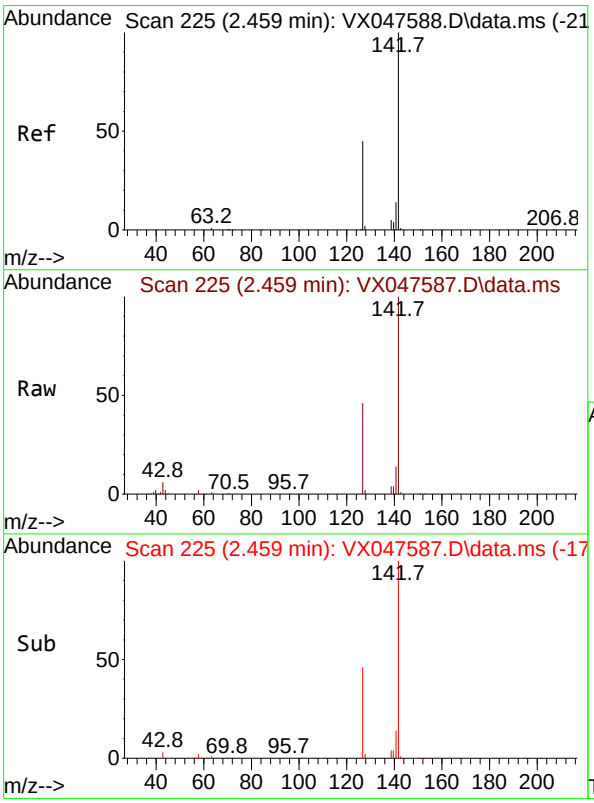
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.859 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 45733

Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	72.1	59.4	89.0

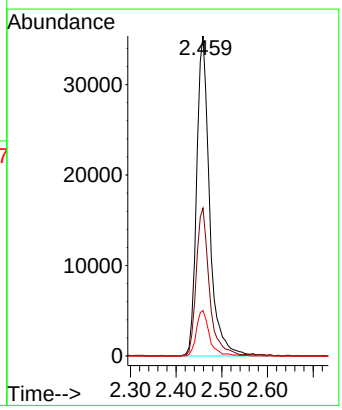


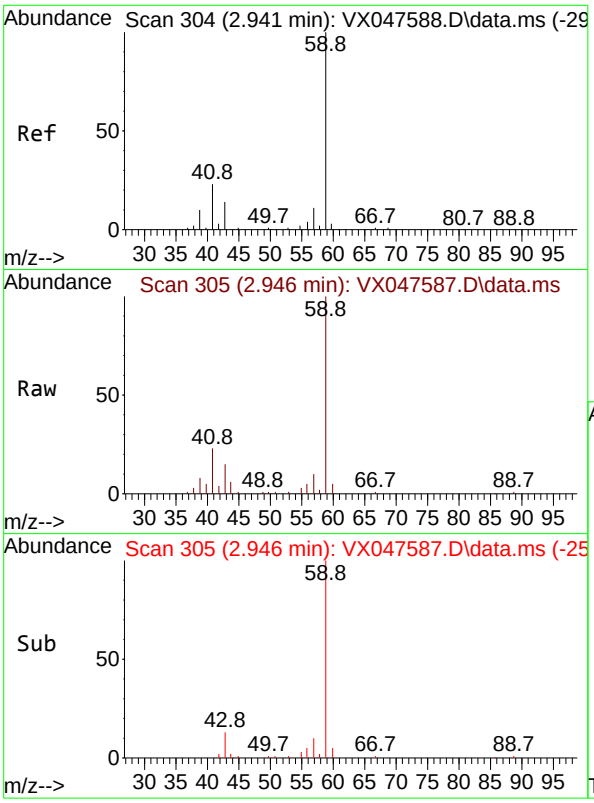


#10
Methyl Iodide
Concen: 20.452 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:142 Resp: 69935

Ion	Ratio	Lower	Upper
142	100		
127	46.9	37.2	55.8
141	14.3	11.4	17.0



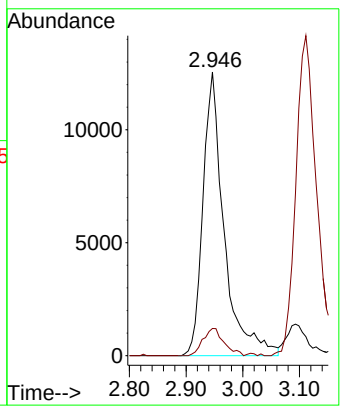


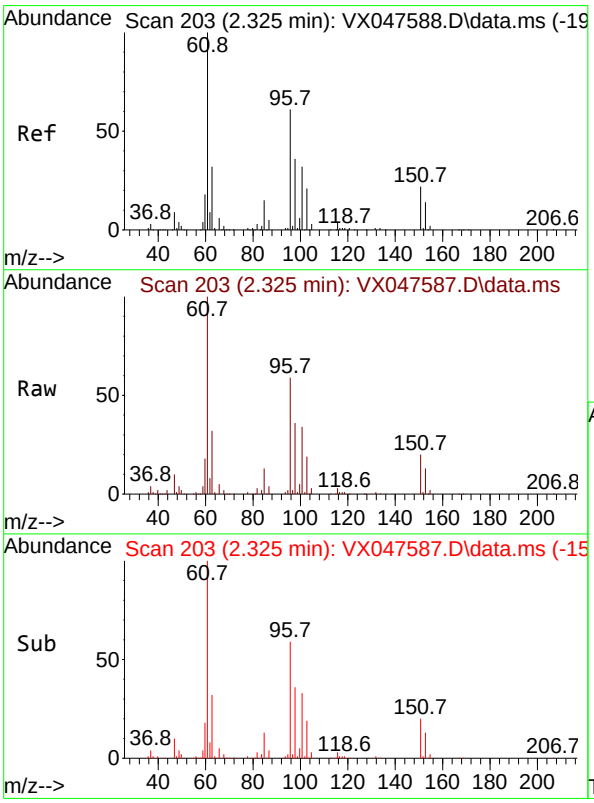
#11
Tert butyl alcohol
Concen: 96.582 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 32456

Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.3	12.5

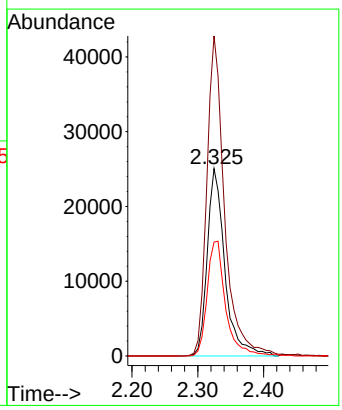


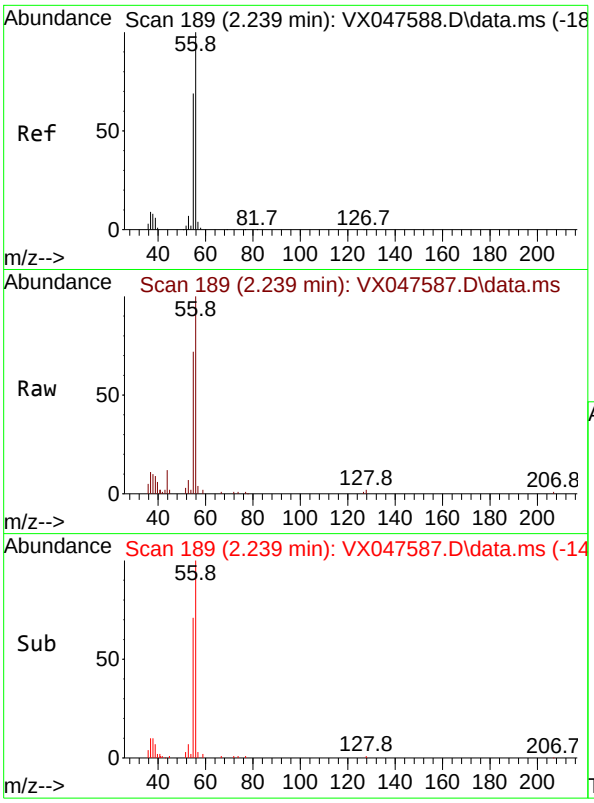


#12
1,1-Dichloroethene
Concen: 20.808 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 46863

Ion	Ratio	Lower	Upper
96	100		
61	170.7	131.0	196.6
98	60.8	47.7	71.5



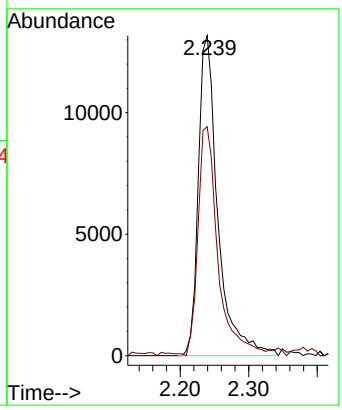


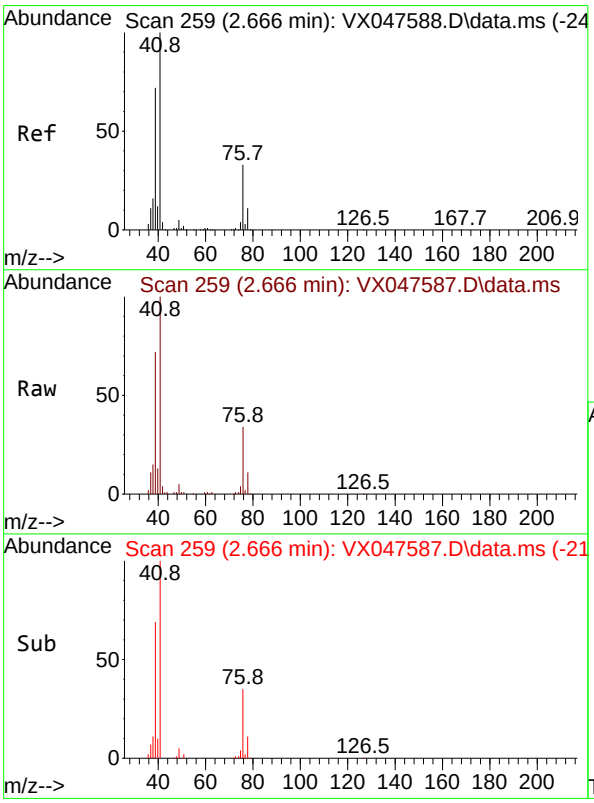
#13
Acrolein
Concen: 84.473 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 26159

Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8

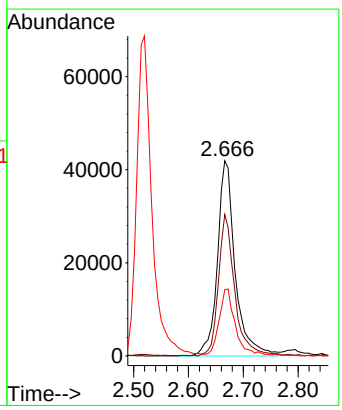


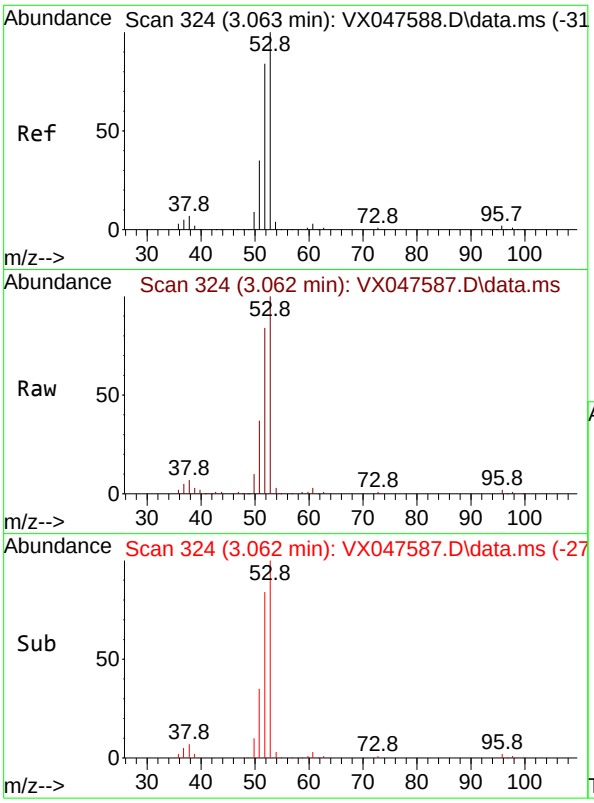


#14
Allyl chloride
Concen: 20.379 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 94710

Ion	Ratio	Lower	Upper
41	100		
39	65.5	54.7	82.1
76	30.3	25.7	38.5



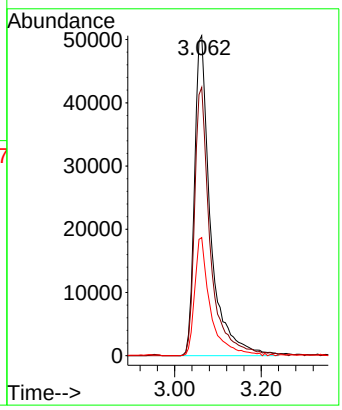


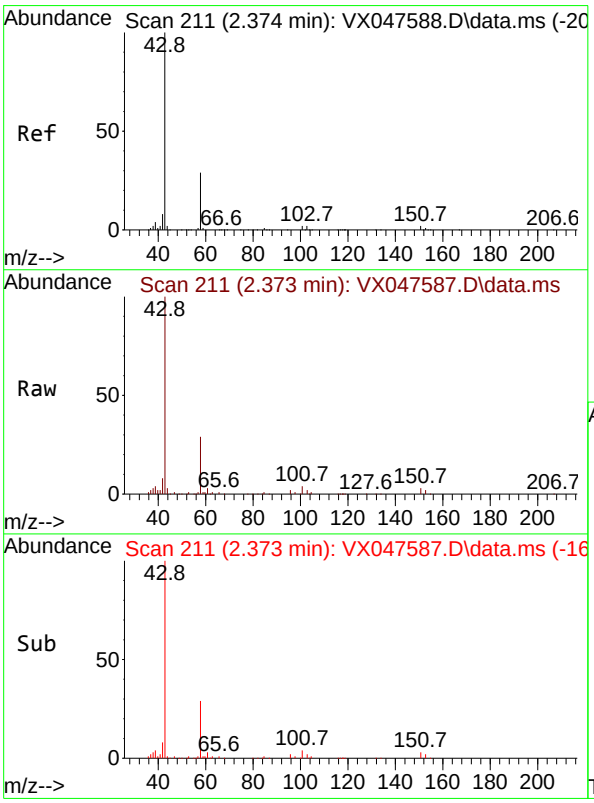
#15
Acrylonitrile
Concen: 104.554 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 130143

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.2	29.5	44.3

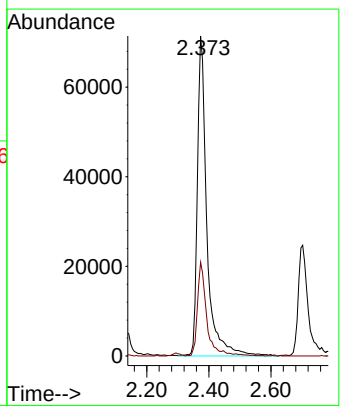


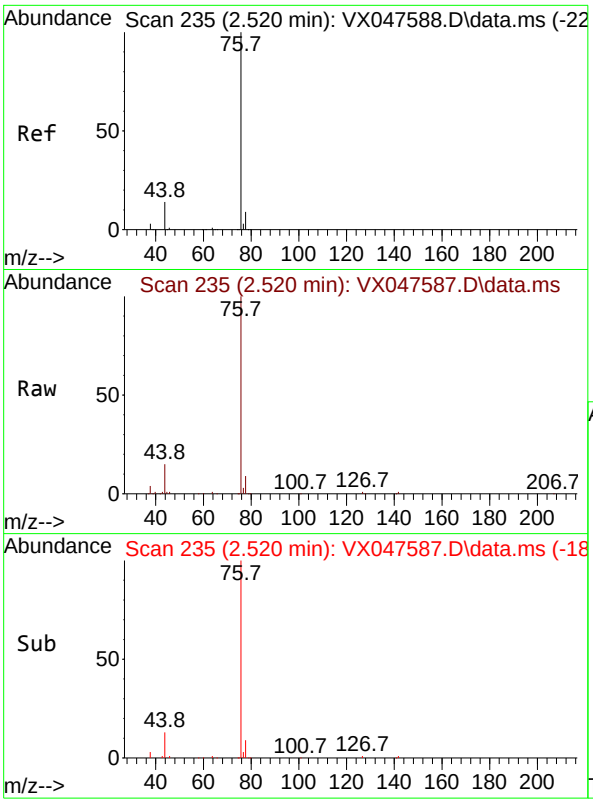


#16
Acetone
Concen: 115.507 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 151538

Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.4	35.0



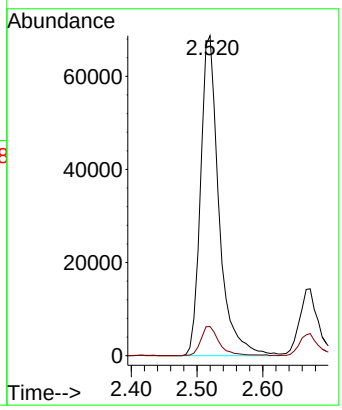


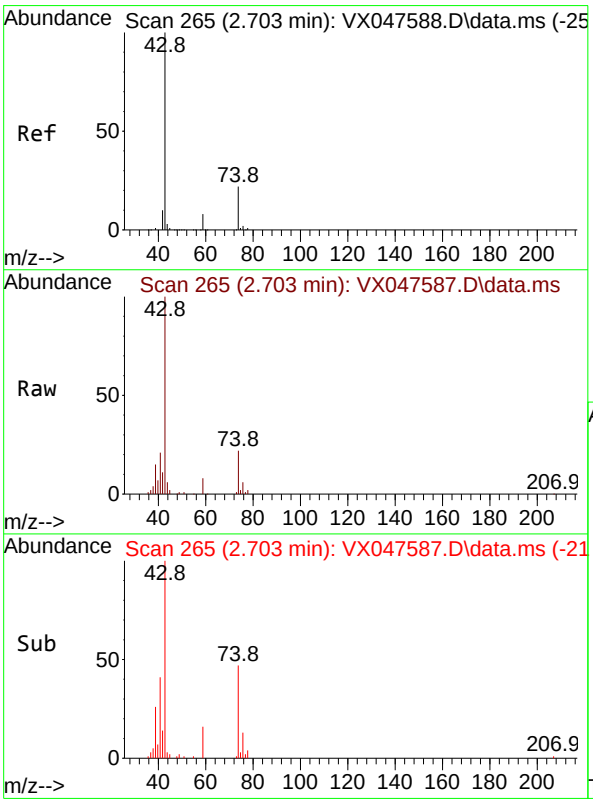
#17
Carbon Disulfide
Concen: 21.620 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 133296

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.8	10.2

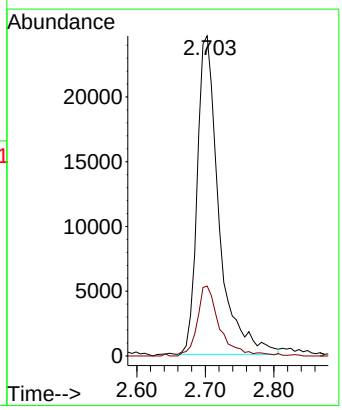


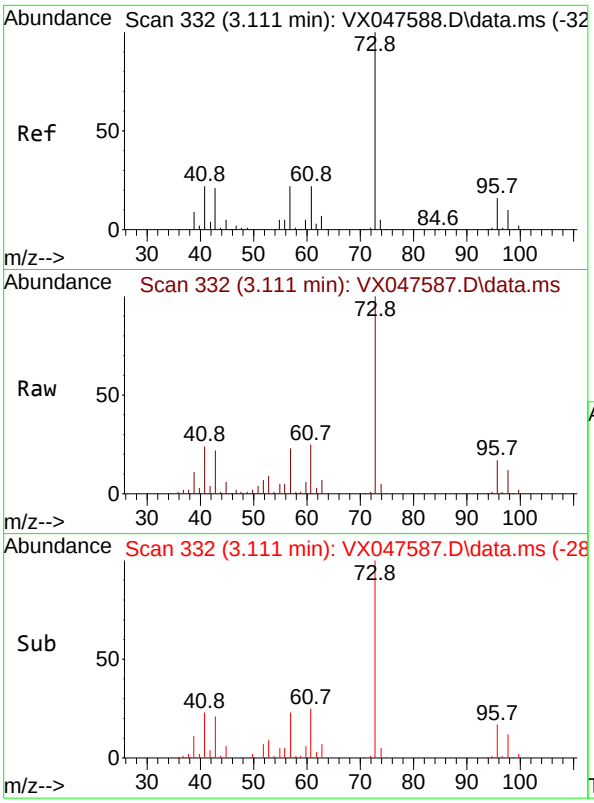


#18
Methyl Acetate
Concen: 18.536 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 54120

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2



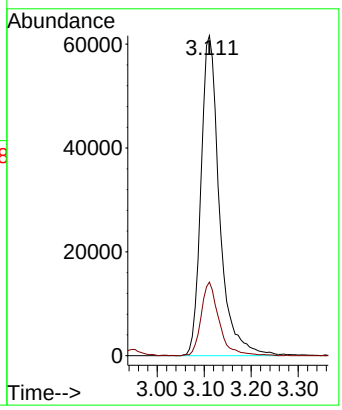


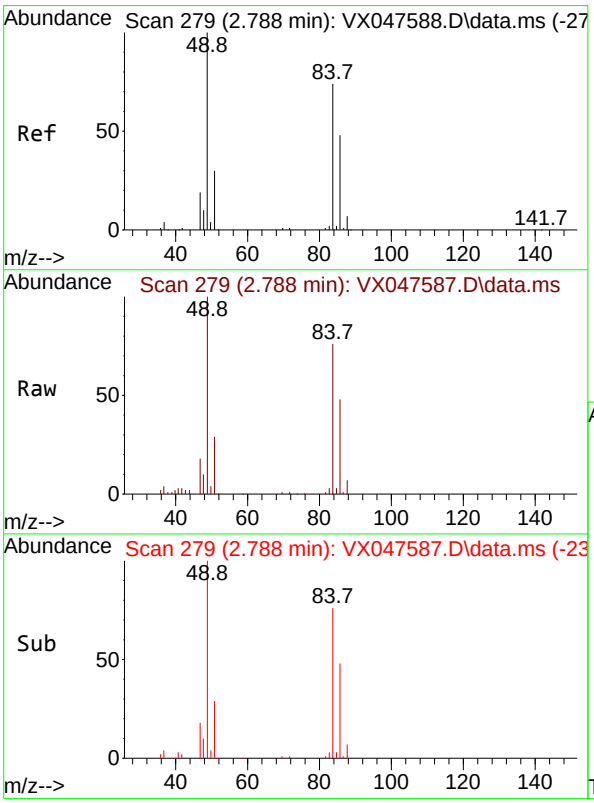
#19
Methyl tert-butyl Ether
Concen: 20.486 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 168426

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.4	26.2

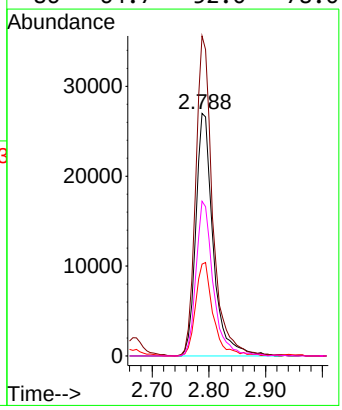


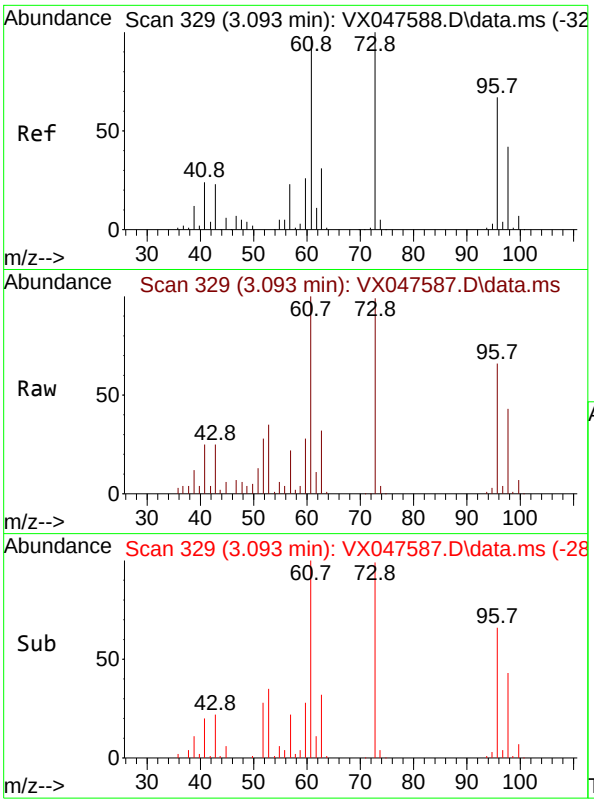


#20
Methylene Chloride
Concen: 20.581 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 84 Resp: 57153

Ion	Ratio	Lower	Upper
84	100		
49	131.7	108.6	162.8
51	37.9	32.6	48.8
86	64.7	52.0	78.0



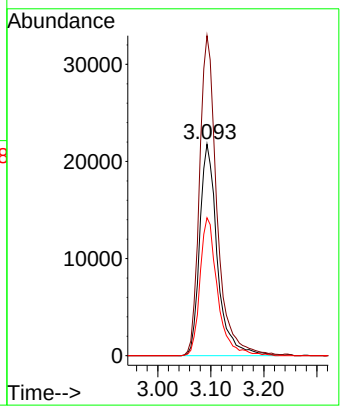


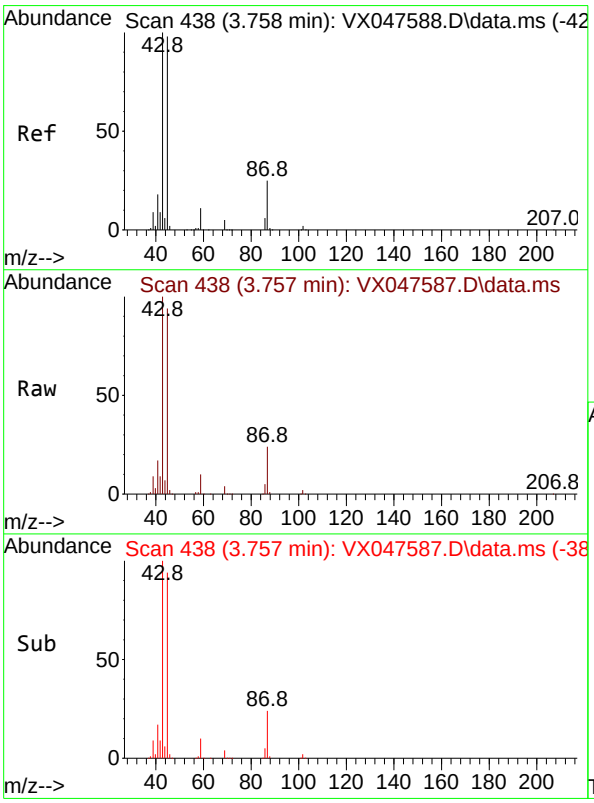
#21
trans-1,2-Dichloroethene
Concen: 20.791 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 50413

Ion	Ratio	Lower	Upper
96	100		
61	151.3	116.2	174.2
98	67.2	49.3	73.9

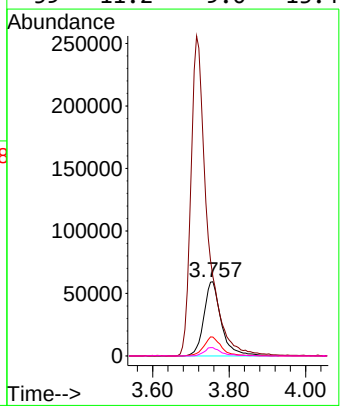


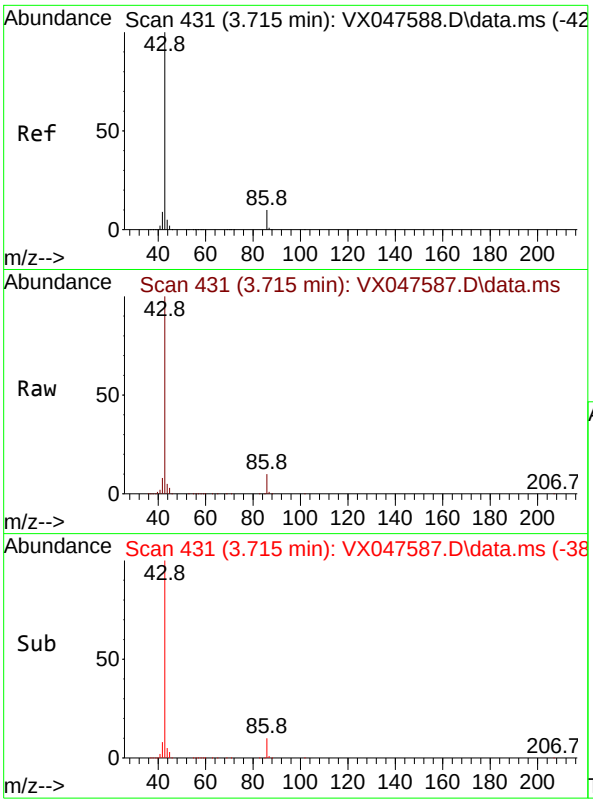


#22
Diisopropyl ether
Concen: 20.940 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 45 Resp: 188598

Ion	Ratio	Lower	Upper
45	100		
43	106.1	81.0	121.4
87	25.5	20.3	30.5
59	11.2	9.0	13.4



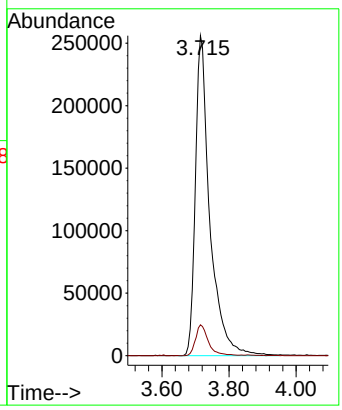


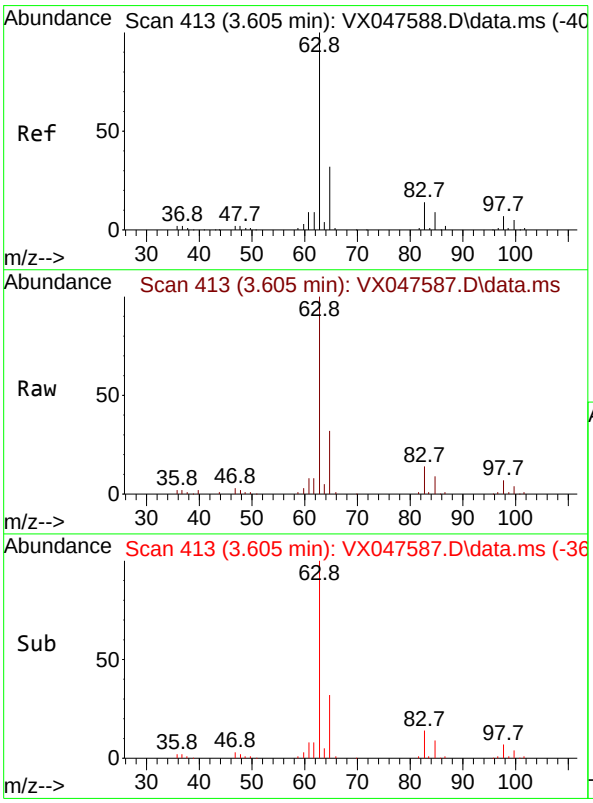
#23
Vinyl Acetate
Concen: 106.218 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 765675

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.8	11.8

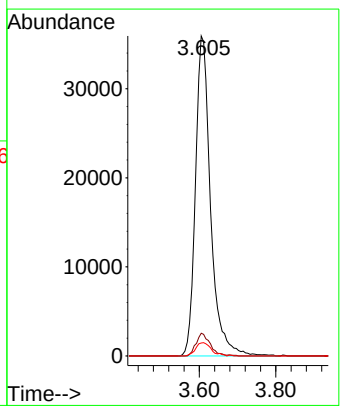


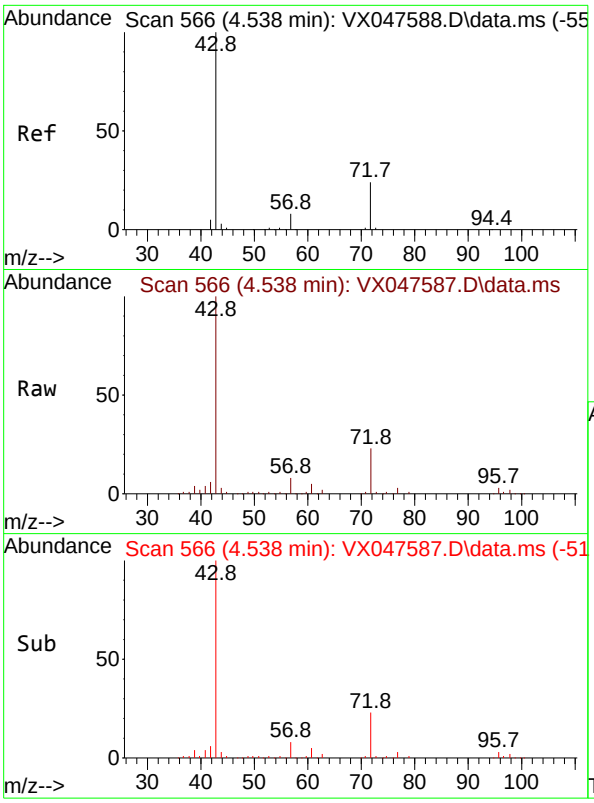


#24
1,1-Dichloroethane
Concen: 20.578 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 98509

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.1	2.3	6.9



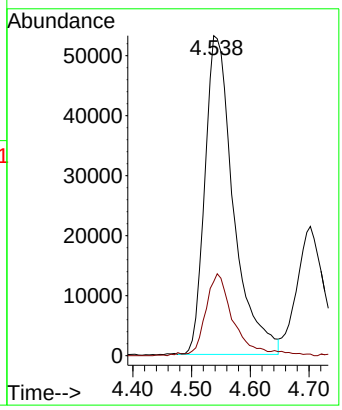


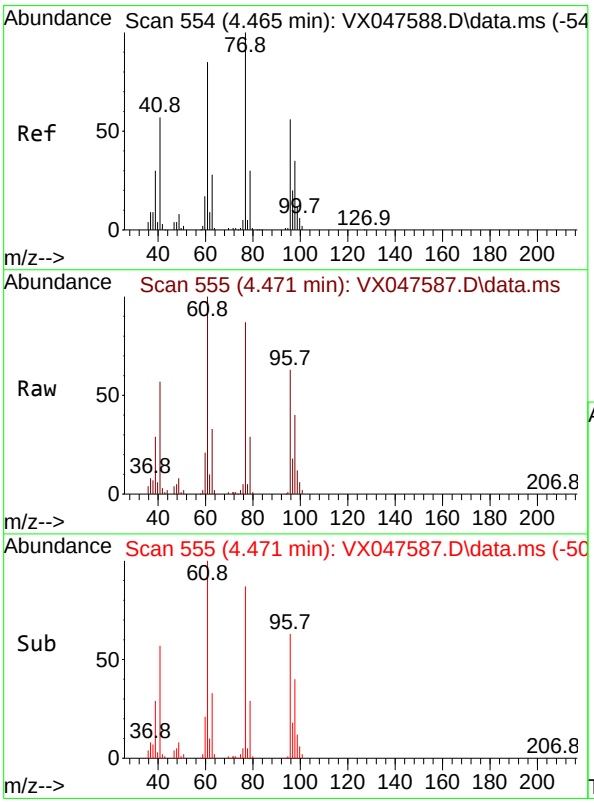
#25
2-Butanone
Concen: 109.679 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 179487

Ion	Ratio	Lower	Upper
43	100		
72	22.3	20.1	30.1

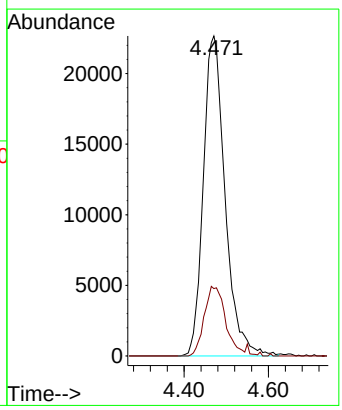


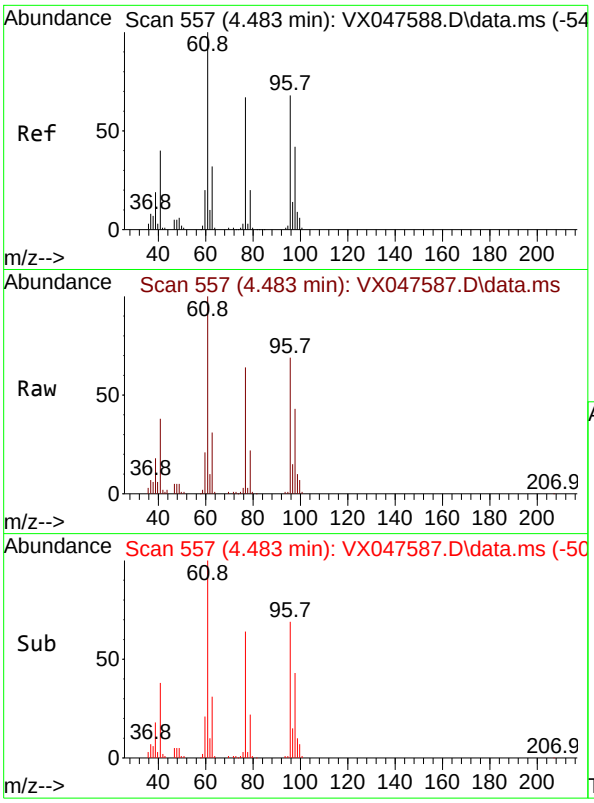


#26
2,2-Dichloropropane
Concen: 20.459 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 77 Resp: 81413

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.9	32.7



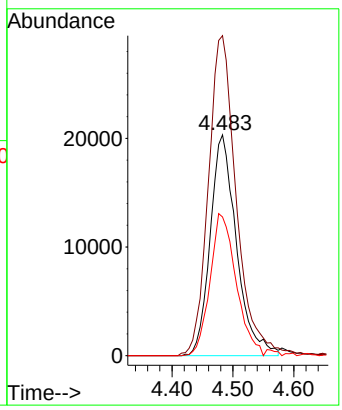


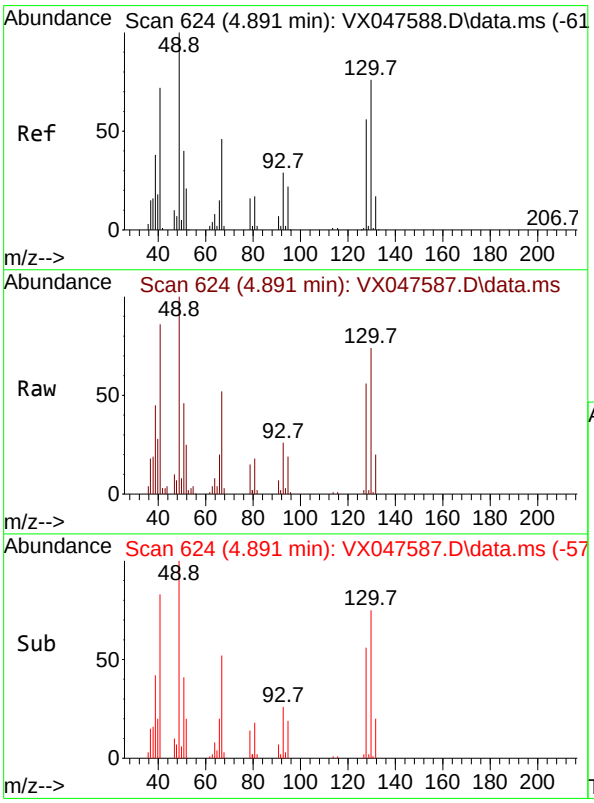
#27
cis-1,2-Dichloroethene
Concen: 20.497 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 60865

Ion	Ratio	Lower	Upper
96	100		
61	154.8	0.0	303.2
98	63.7	0.0	127.8

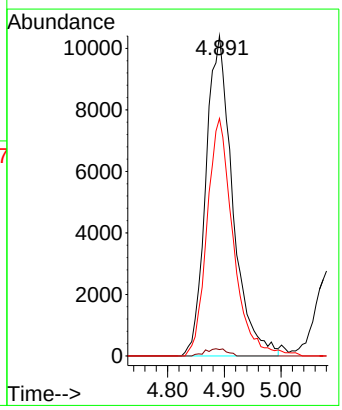


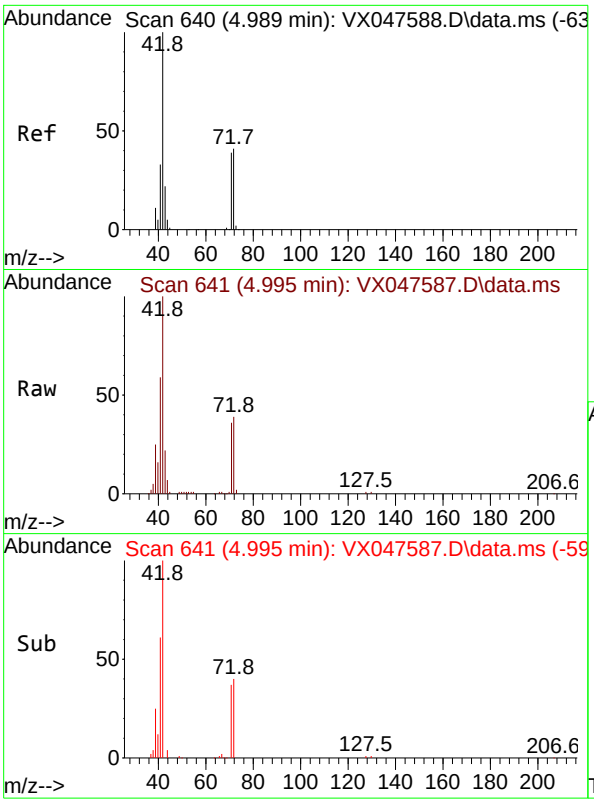


#28
Bromochloromethane
Concen: 16.309 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 49 Resp: 34085

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.7	57.8	86.8



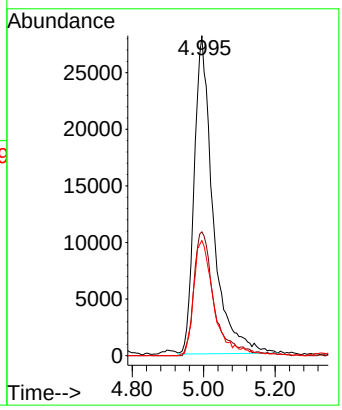


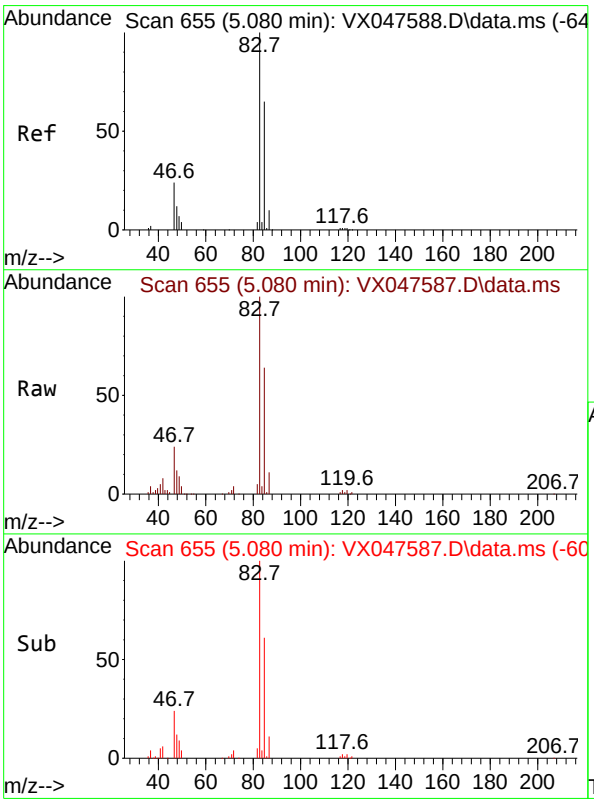
#29
Tetrahydrofuran
Concen: 104.560 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 102935

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	37.8	31.9	47.9

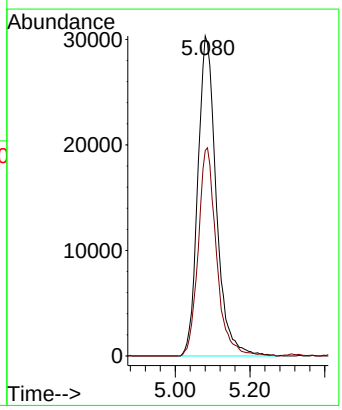


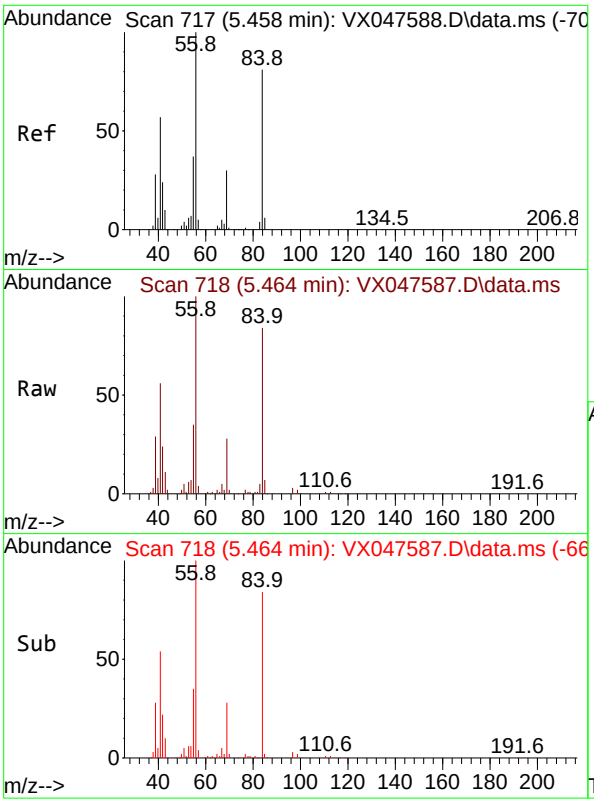


#30
Chloroform
Concen: 21.413 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 103586

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6



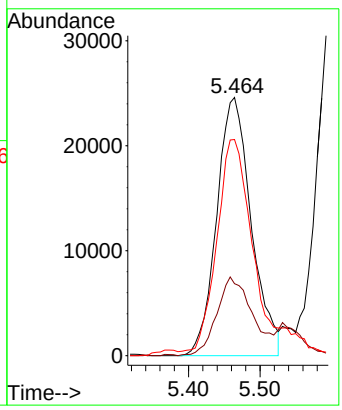


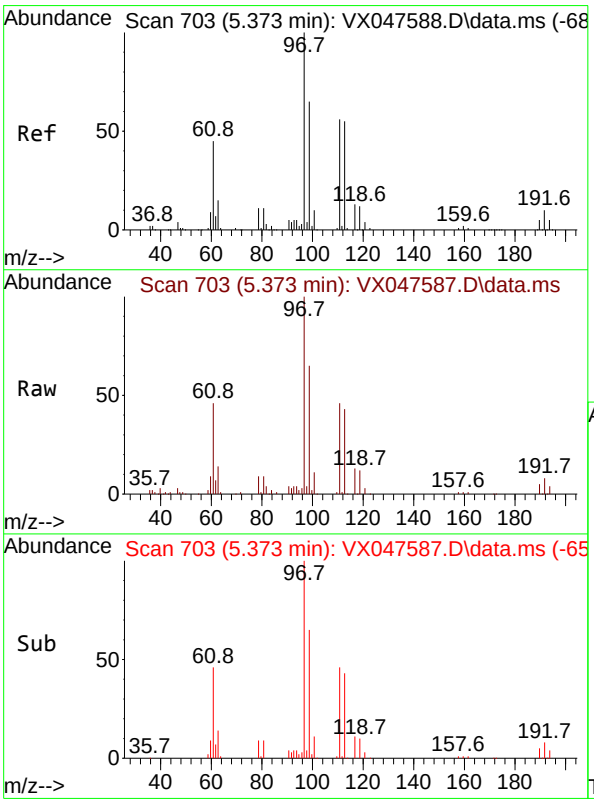
#31
Cyclohexane
Concen: 20.759 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 82770

Ion	Ratio	Lower	Upper
56	100		
69	27.9	23.8	35.8
84	82.2	64.6	97.0

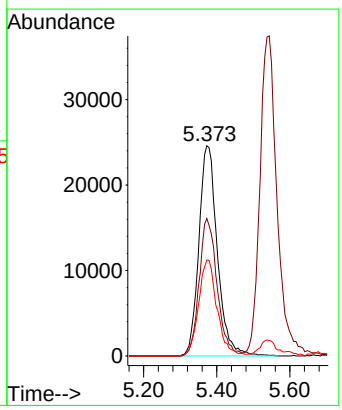


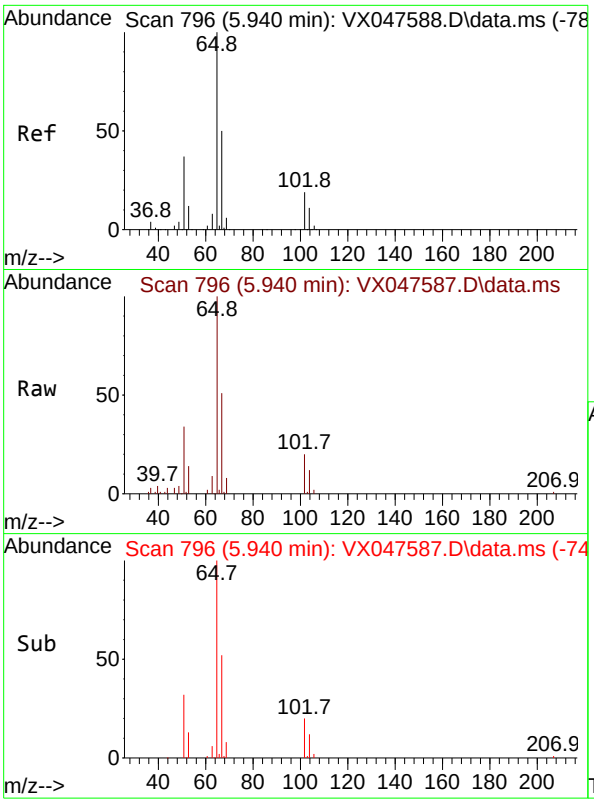


#32
1,1,1-Trichloroethane
Concen: 21.081 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 97 Resp: 86500

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	45.5	35.8	53.8



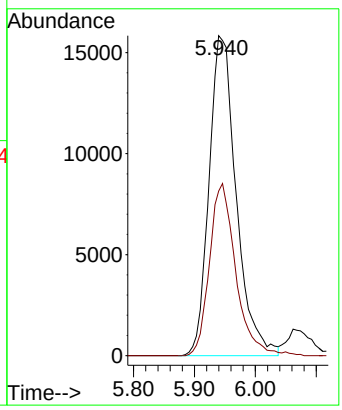


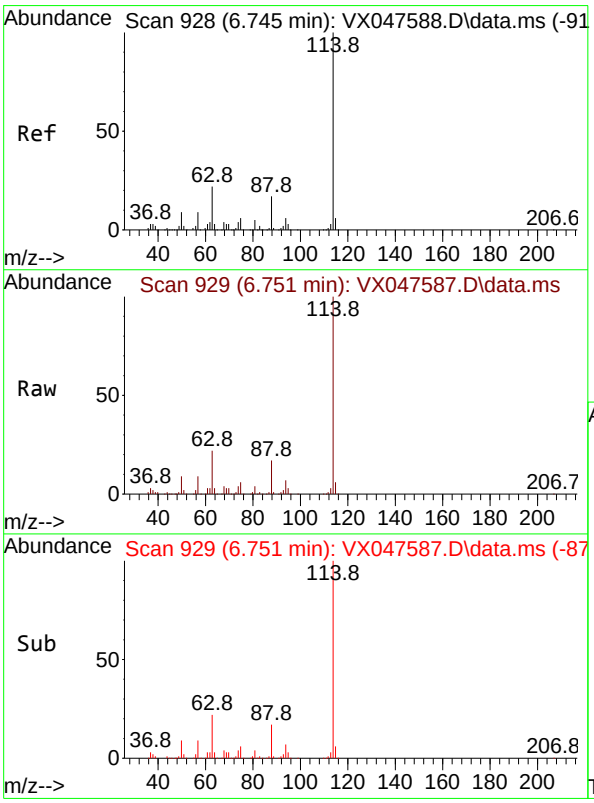
#33
1,2-Dichloroethane-d4
Concen: 16.264 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 49073

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0

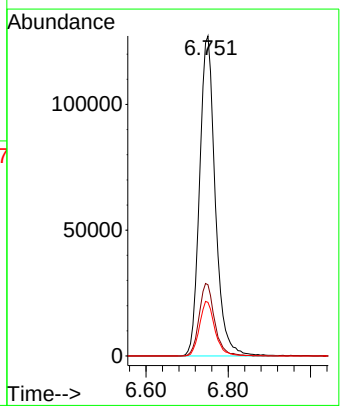


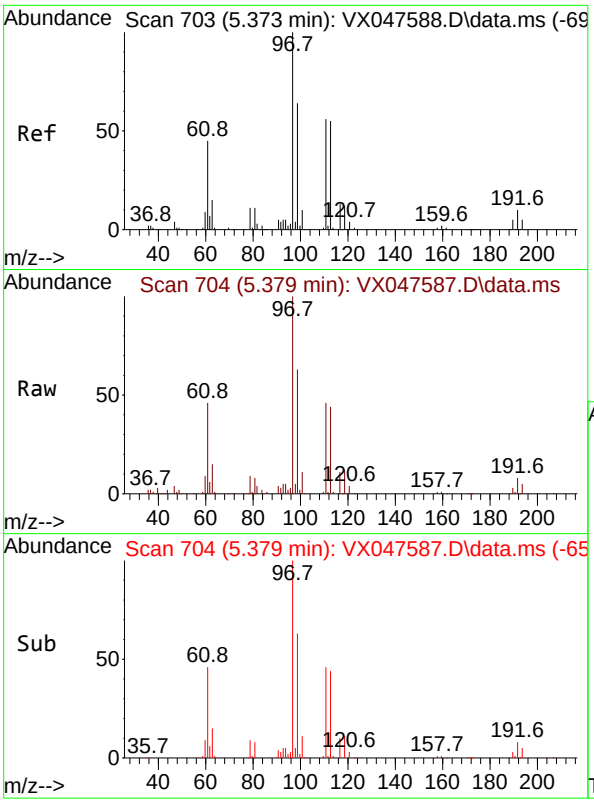


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:114 Resp: 336287

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2



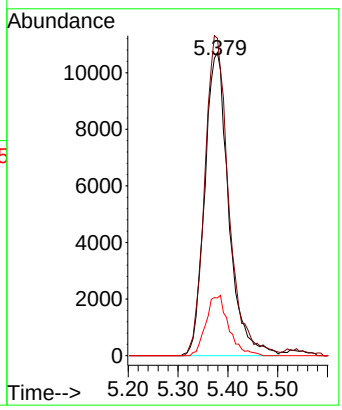


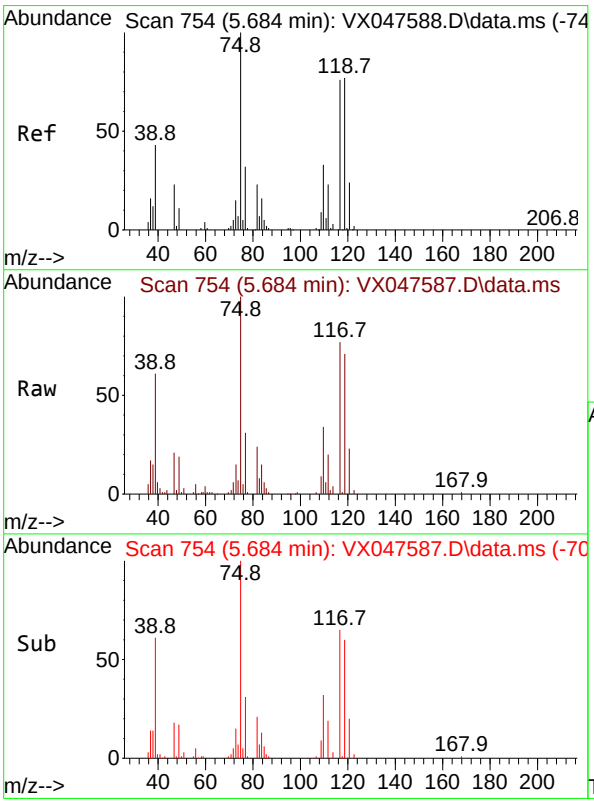
#35
Dibromofluoromethane
Concen: 15.868 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 35788

Ion	Ratio	Lower	Upper
113	100		
111	105.7	80.9	121.3
192	18.8	14.2	21.4

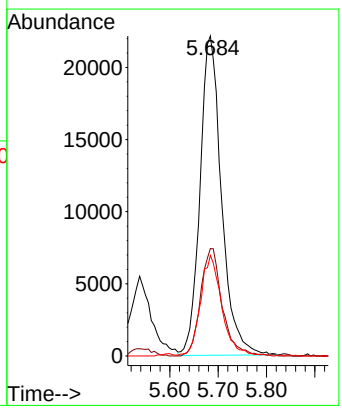


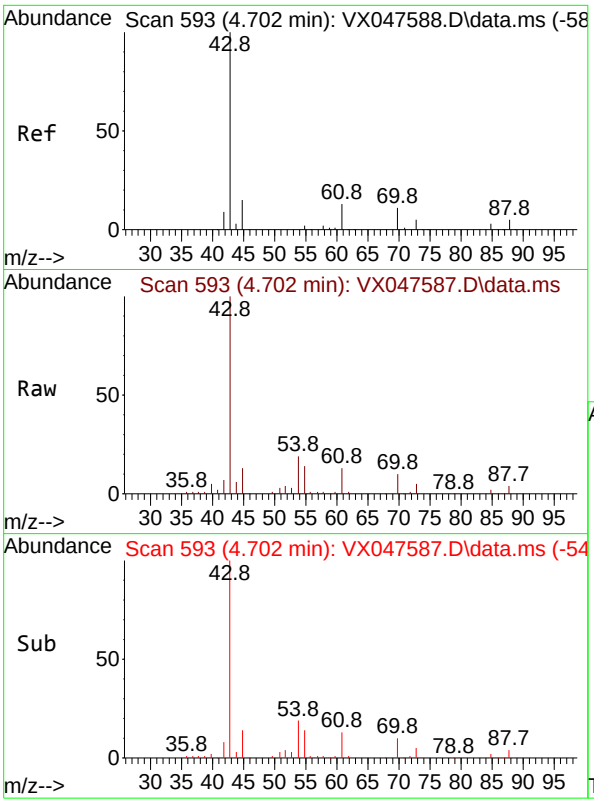


#36
1,1-Dichloropropene
Concen: 20.754 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 68395

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.2	24.3	36.5



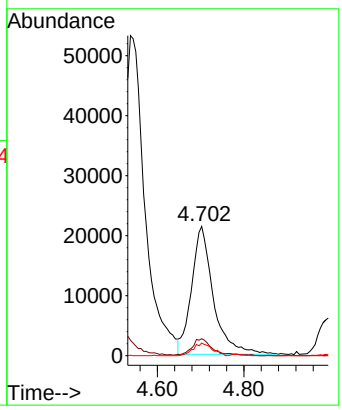


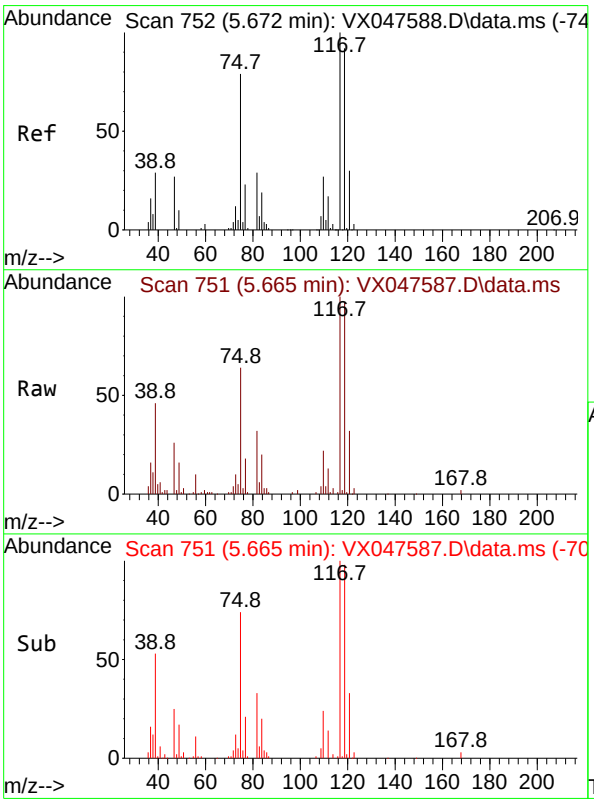
#37
Ethyl Acetate
Concen: 21.113 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 74499

Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	8.5	7.9	11.9

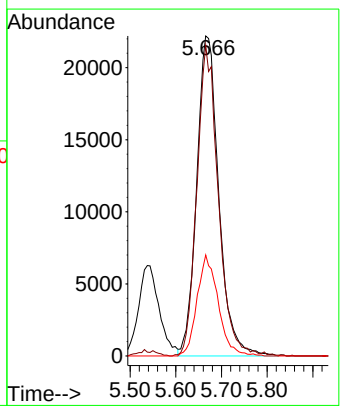


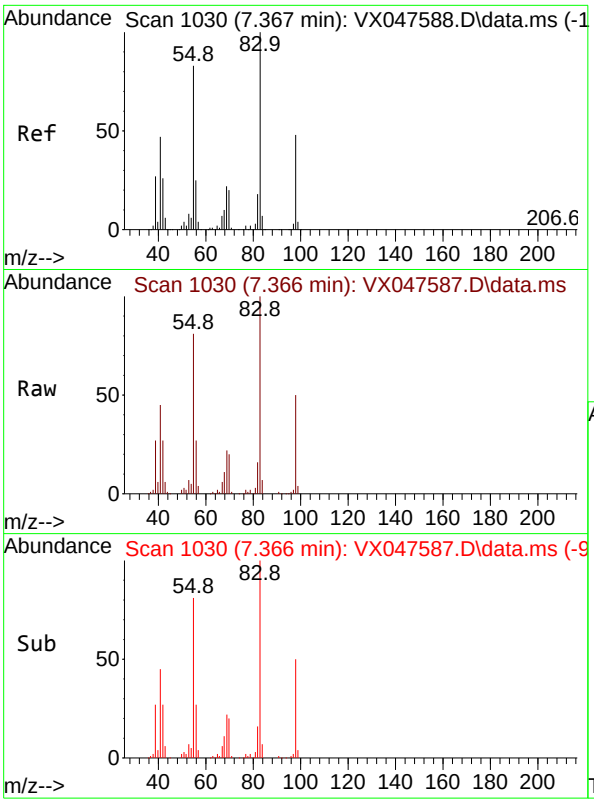


#38
Carbon Tetrachloride
Concen: 20.844 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 74636

Ion	Ratio	Lower	Upper
117	100		
119	96.9	73.4	110.2
121	31.6	23.8	35.6



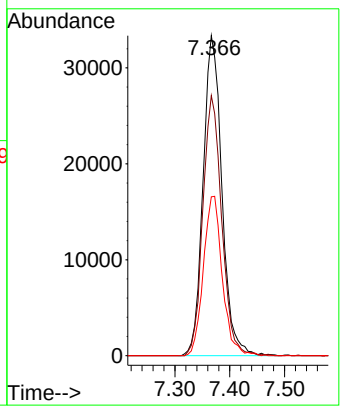


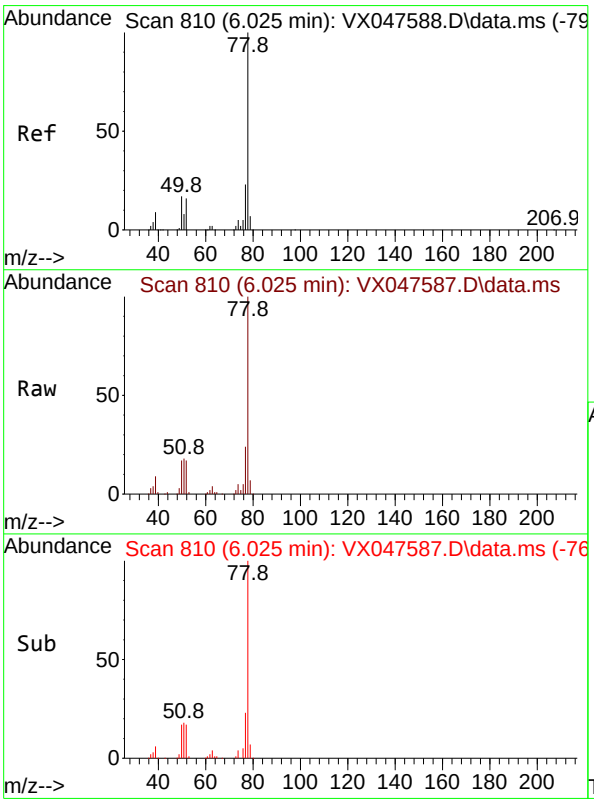
#39
Methylcyclohexane
Concen: 21.251 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 79499

Ion	Ratio	Lower	Upper
83	100		
55	81.2	66.4	99.6
98	49.6	38.1	57.1

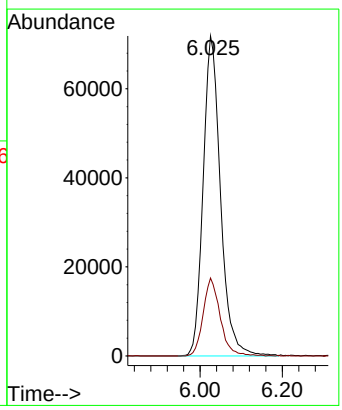


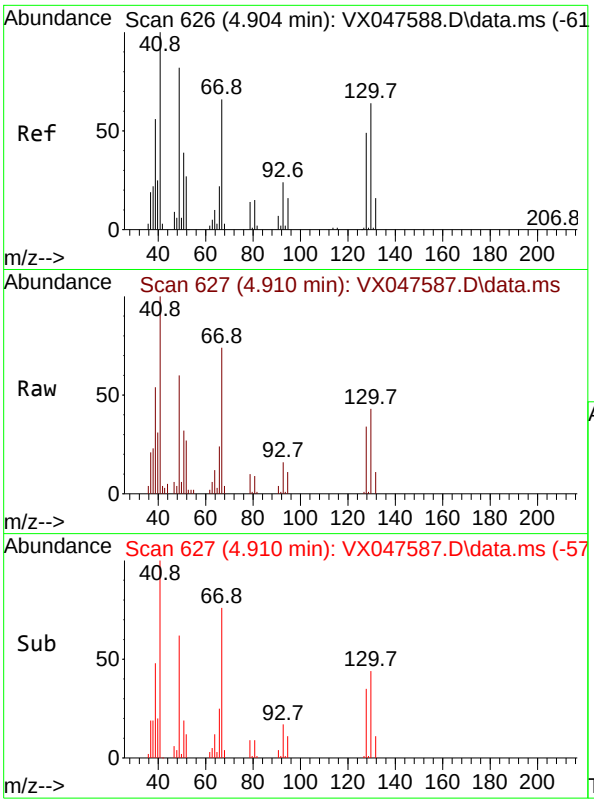


#40
Benzene
Concen: 21.051 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 78 Resp: 210711

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2



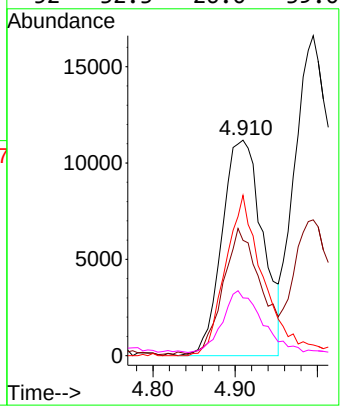


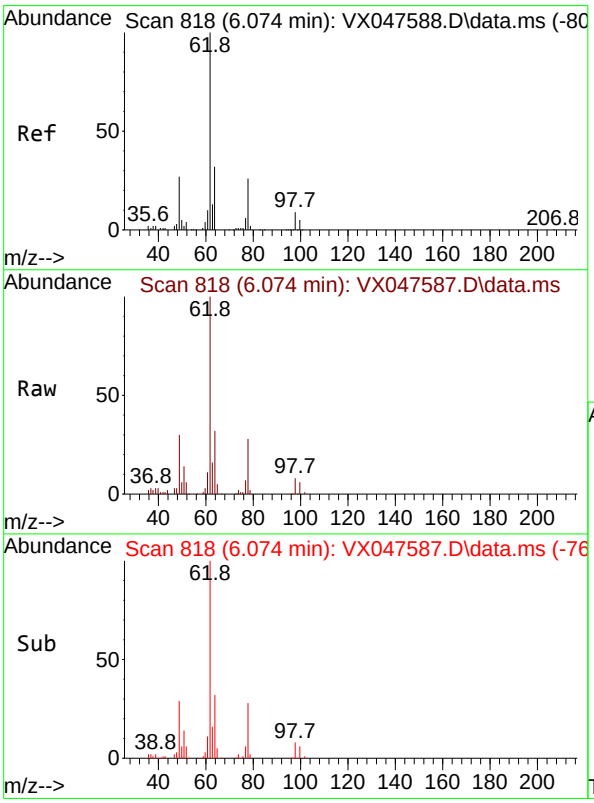
#41
Methacrylonitrile
Concen: 21.148 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 38525

Ion	Ratio	Lower	Upper
41	100		
39	53.8	43.3	64.9
67	72.5	58.6	87.8
52	32.3	26.0	39.0

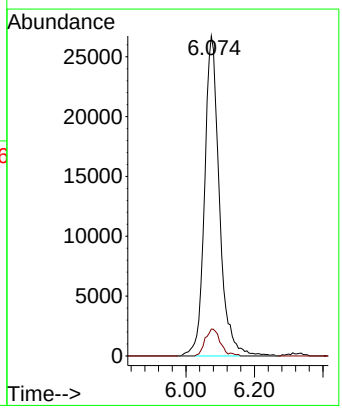


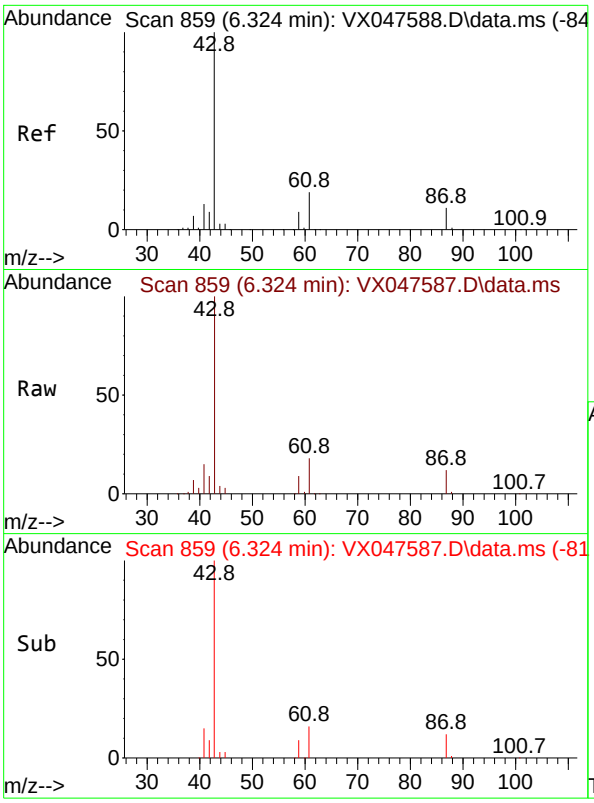


#42
1,2-Dichloroethane
Concen: 21.175 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 80646

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0



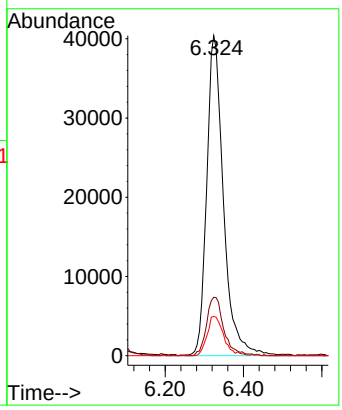


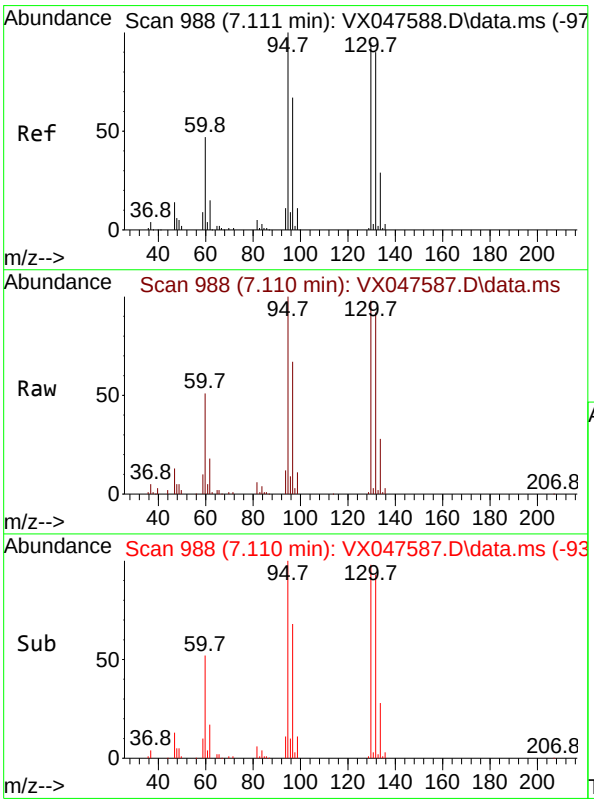
#43
Isopropyl Acetate
Concen: 20.670 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 119623

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.2	22.8
87	12.1	9.6	14.4

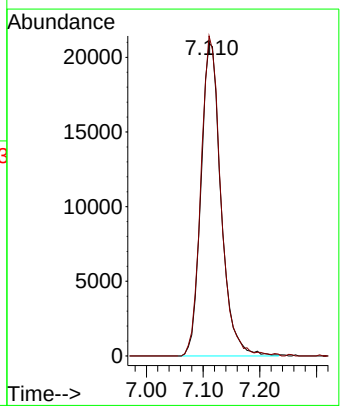


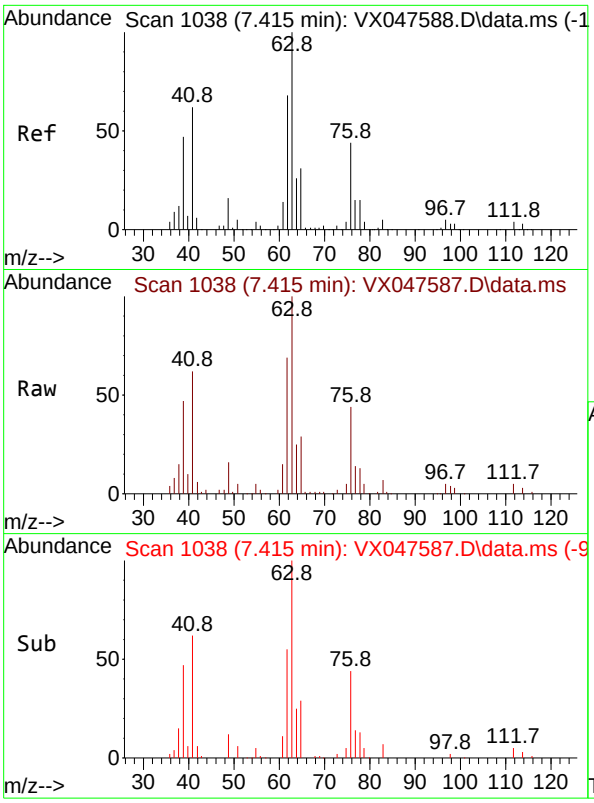


#44
Trichloroethene
Concen: 21.228 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:130 Resp: 51369

Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	210.8



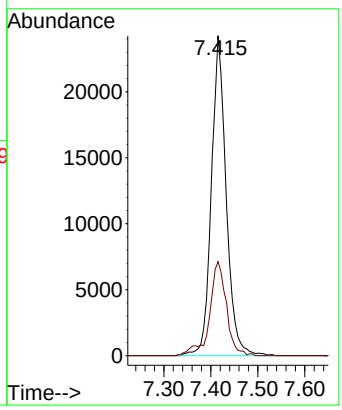


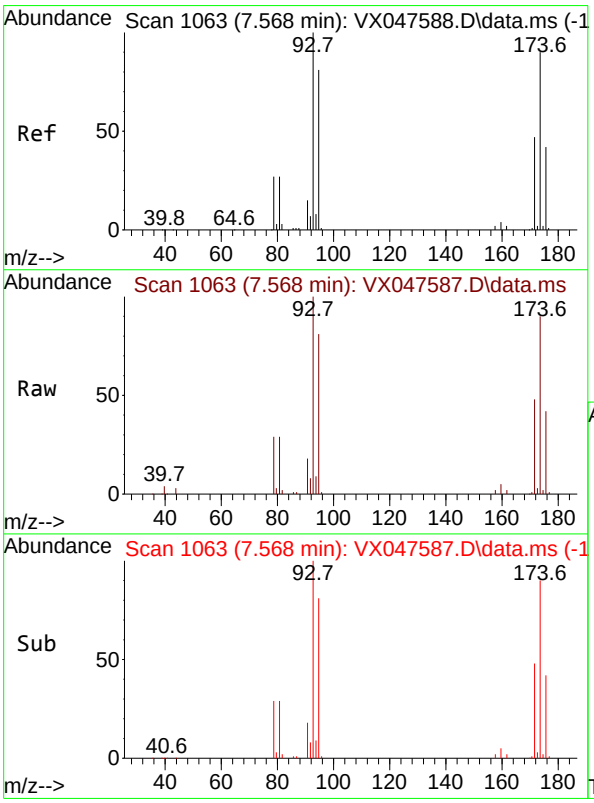
#45
1,2-Dichloropropane
Concen: 20.697 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 53046

Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.7	37.1

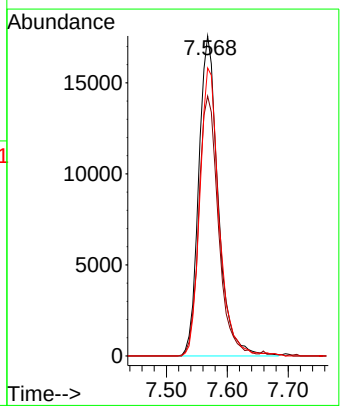


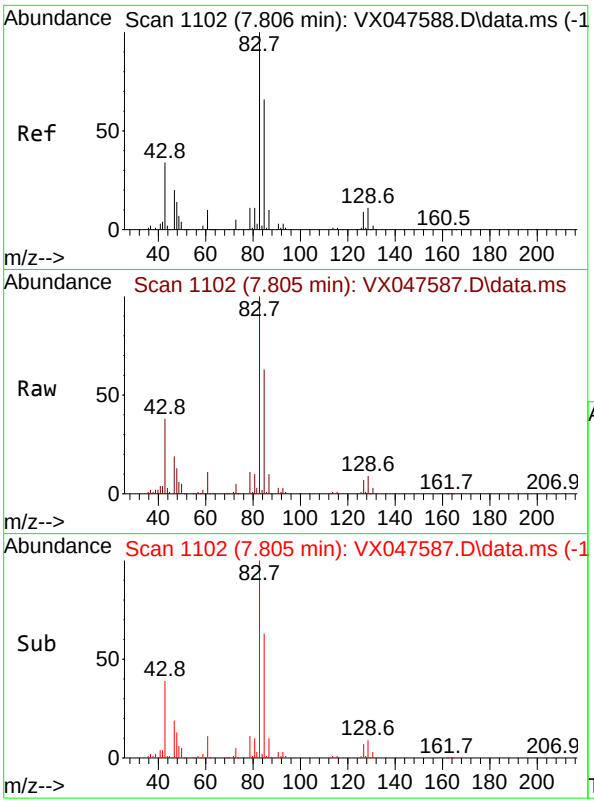


#46
Dibromomethane
Concen: 20.862 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 93 Resp: 38910

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.0	97.6
174	89.2	71.6	107.4



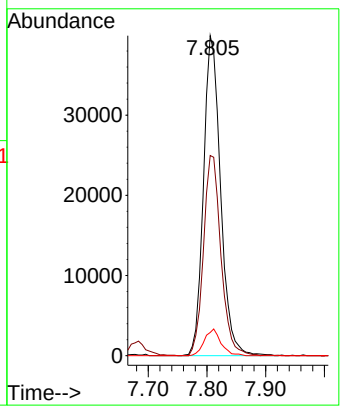


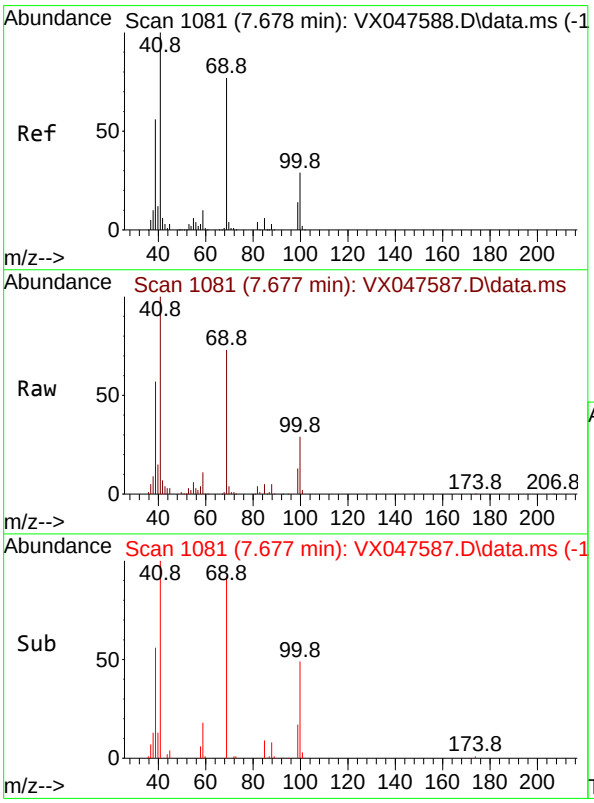
#47
Bromodichloromethane
Concen: 21.002 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 80831

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.2	6.9	10.3

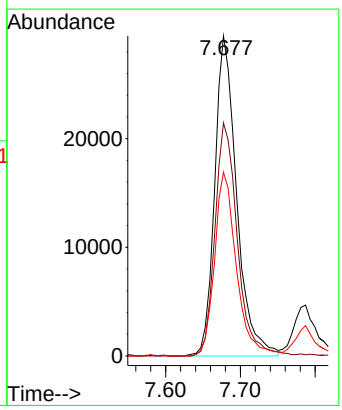


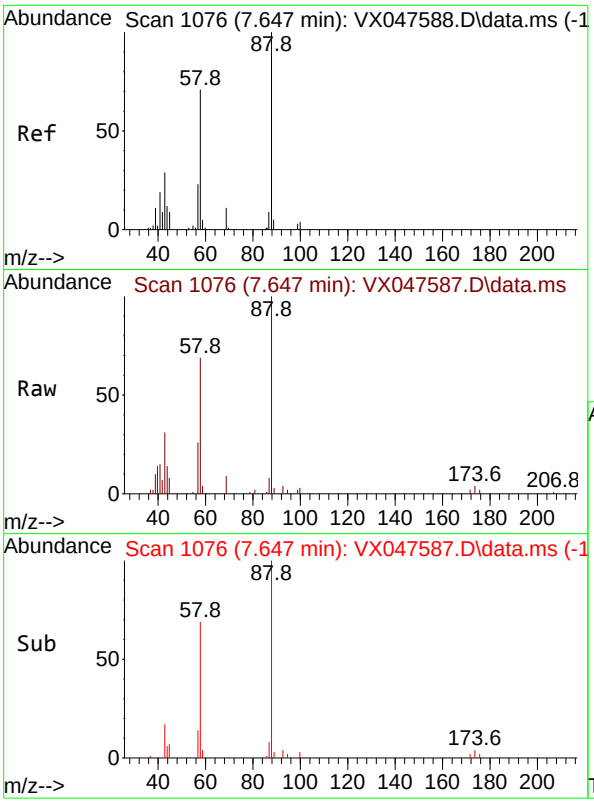


#48
Methyl methacrylate
Concen: 20.877 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 60182

Ion	Ratio	Lower	Upper
41	100		
69	74.2	61.4	92.2
39	57.2	45.8	68.6



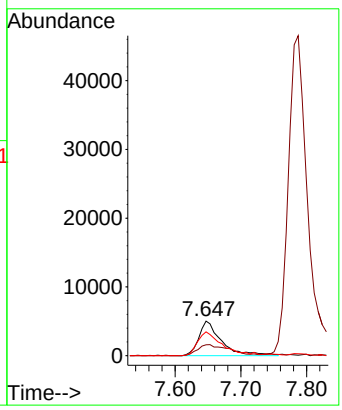


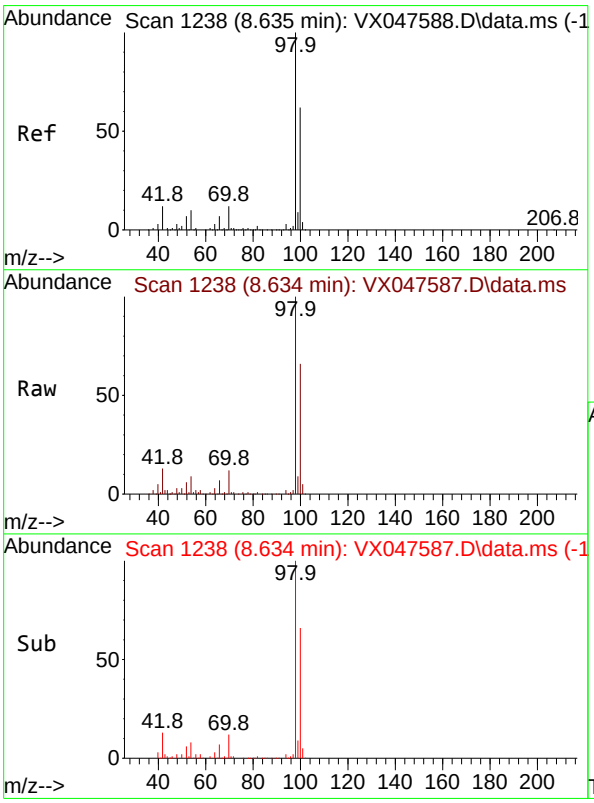
#49
1,4-Dioxane
Concen: 413.530 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 12047

Ion	Ratio	Lower	Upper
88	100		
43	44.7	30.2	45.2
58	75.8	59.5	89.3

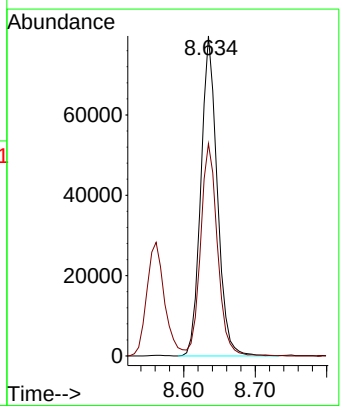


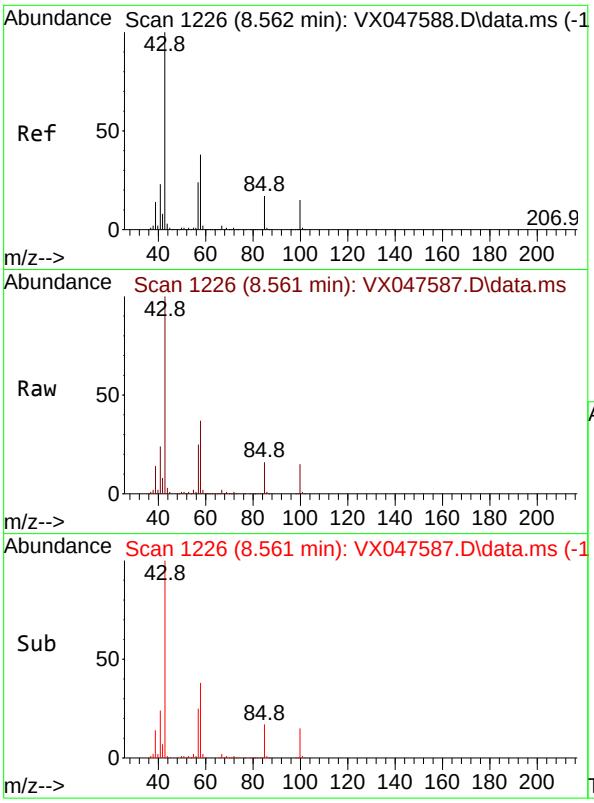


#50
Toluene-d8
Concen: 16.258 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 98 Resp: 126875

Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.0	79.4



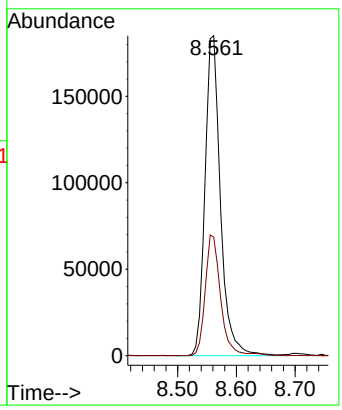


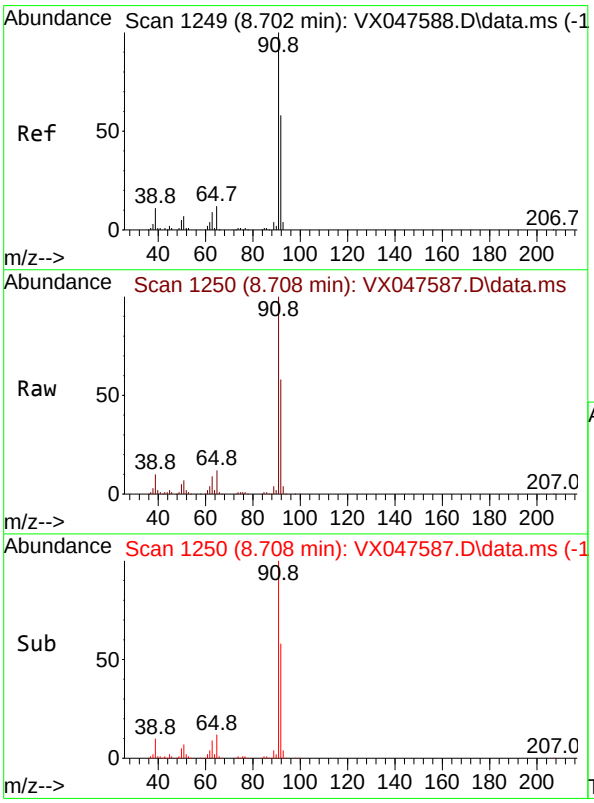
#51
4-Methyl-2-Pentanone
Concen: 105.456 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 338370

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5

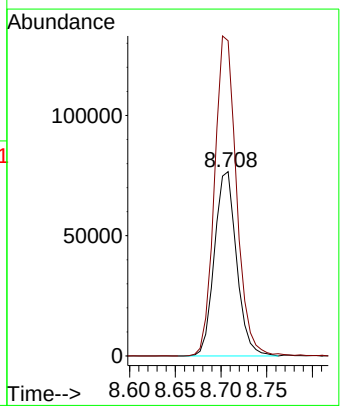


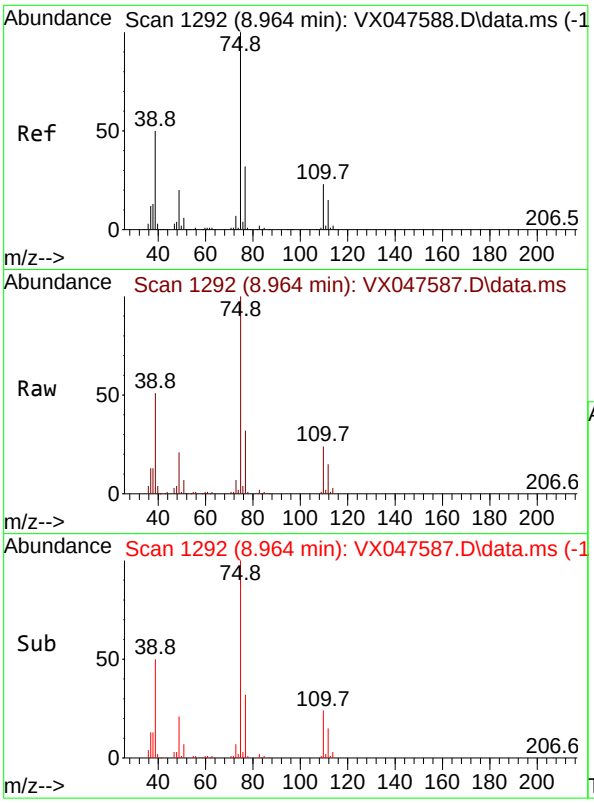


#52
Toluene
Concen: 20.950 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 92 Resp: 129193

Ion	Ratio	Lower	Upper
92	100		
91	173.2	137.1	205.7



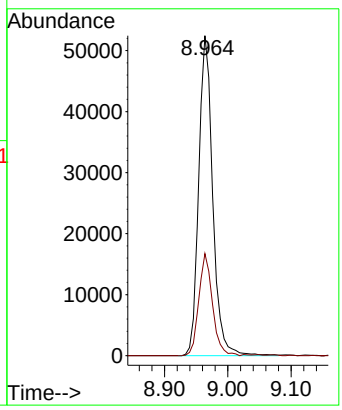


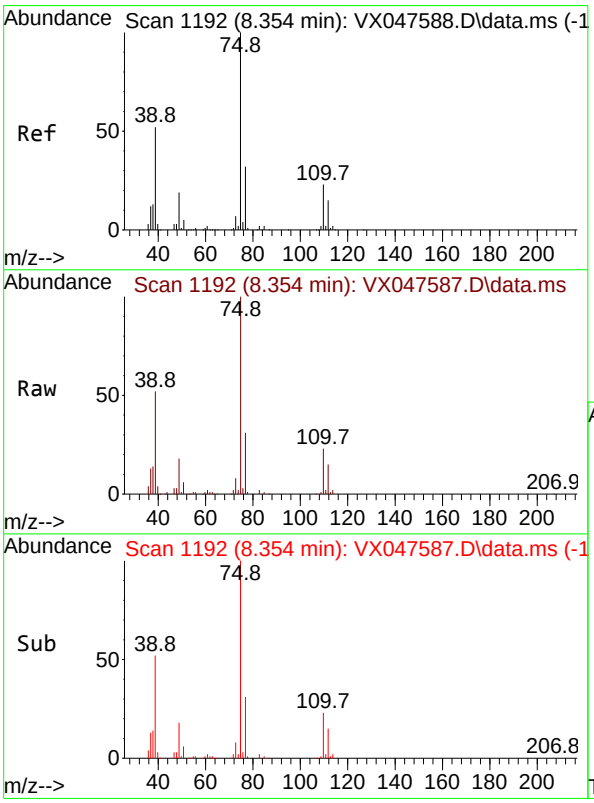
#53
t-1,3-Dichloropropene
Concen: 20.625 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 80972

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.2

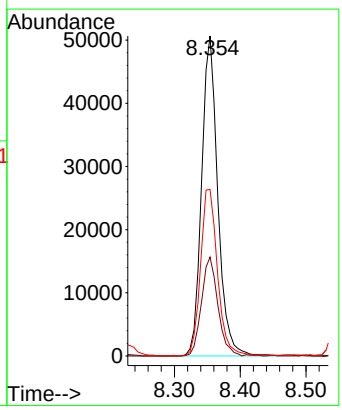


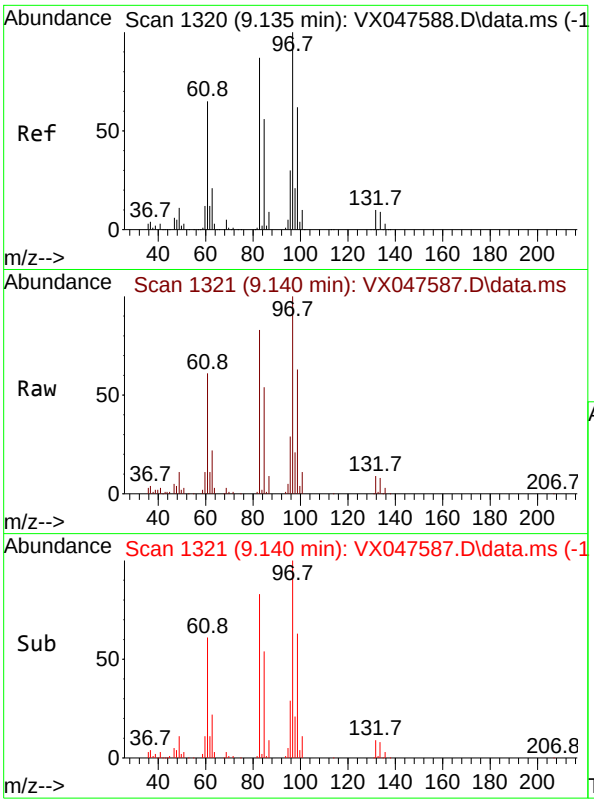


#54
cis-1,3-Dichloropropene
Concen: 20.650 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 86648

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.8	38.6
39	52.0	41.4	62.2



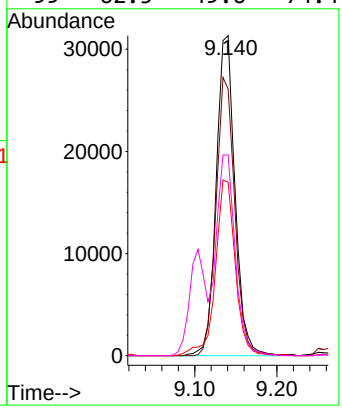


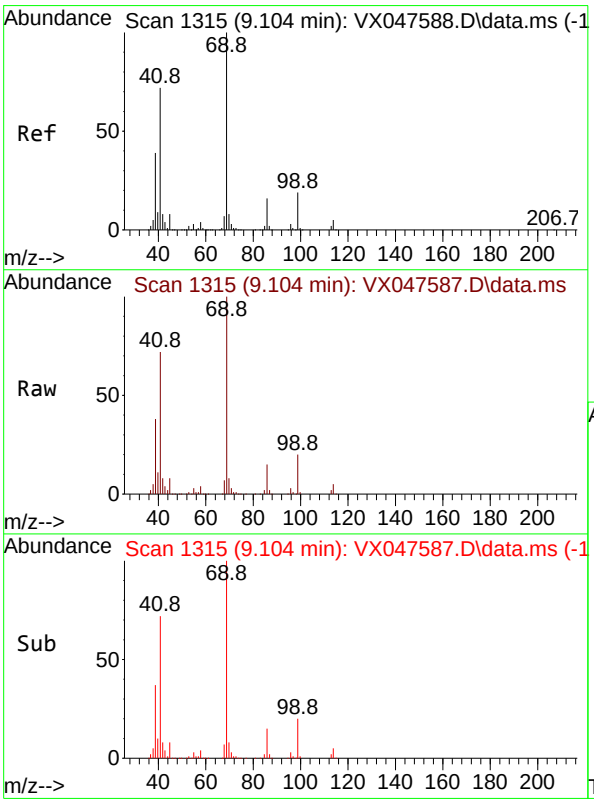
#55
1,1,2-Trichloroethane
Concen: 20.967 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 49857

Ion	Ratio	Lower	Upper
97	100		
83	83.3	69.6	104.4
85	55.2	45.0	67.6
99	62.5	49.6	74.4

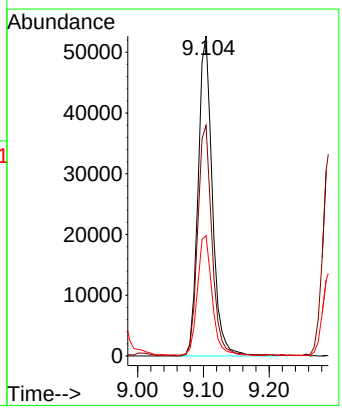


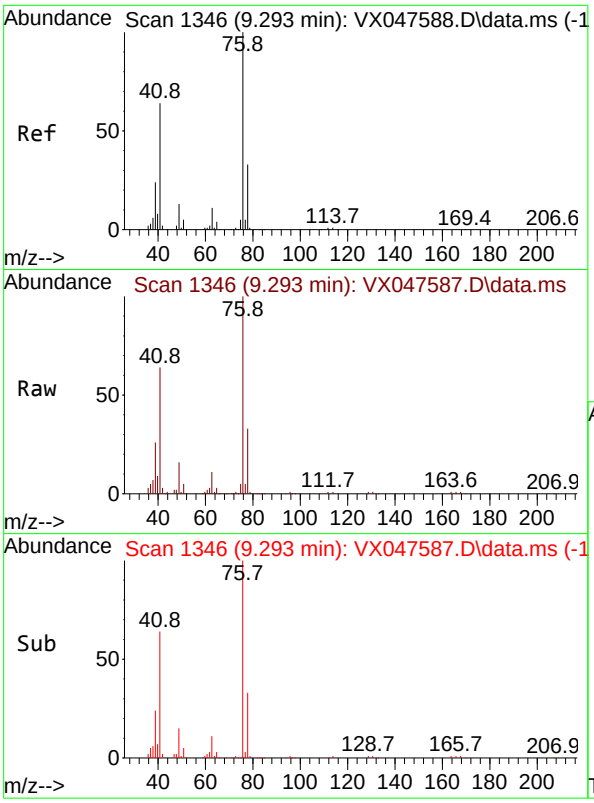


#56
Ethyl methacrylate
Concen: 21.158 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 69 Resp: 79011

Ion	Ratio	Lower	Upper
69	100		
41	72.6	58.6	87.8
39	38.6	31.5	47.3



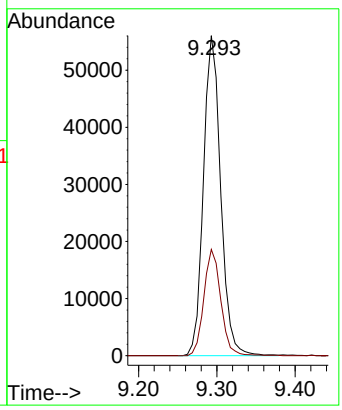


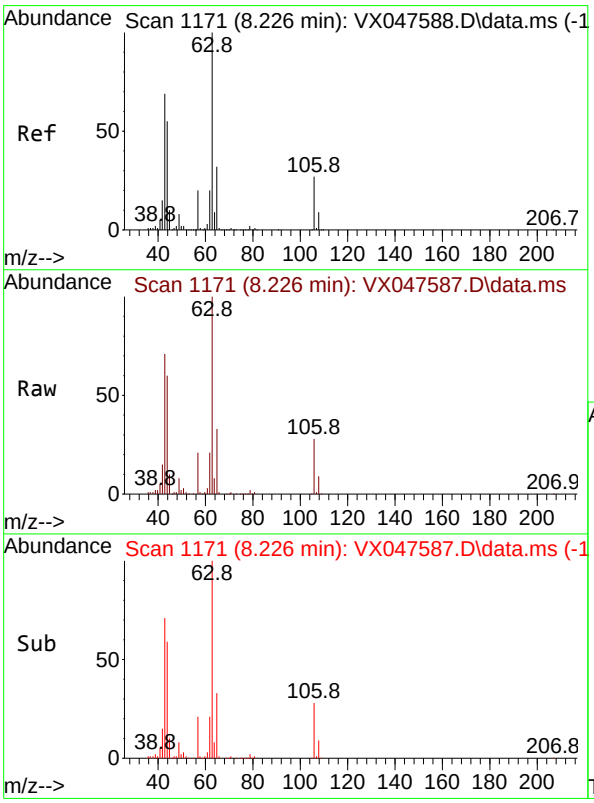
#57
1,3-Dichloropropane
Concen: 20.934 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 85511

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.4

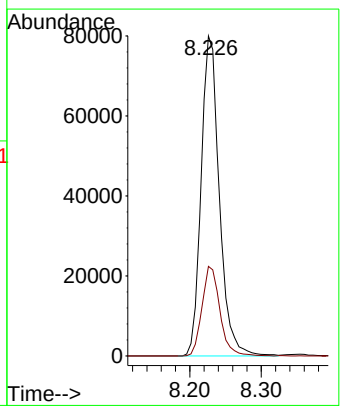


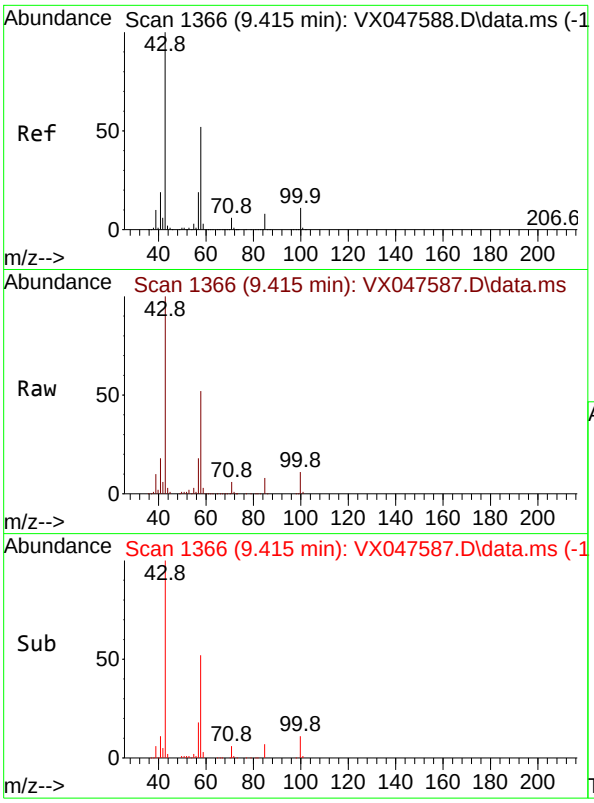


#58
2-Chloroethyl Vinyl ether
Concen: 86.617 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 141395

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



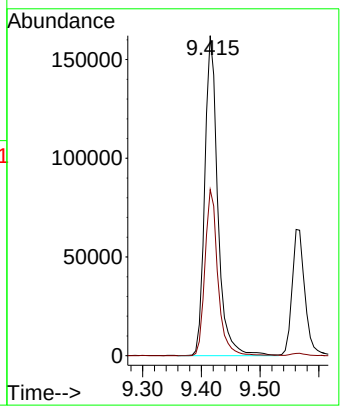


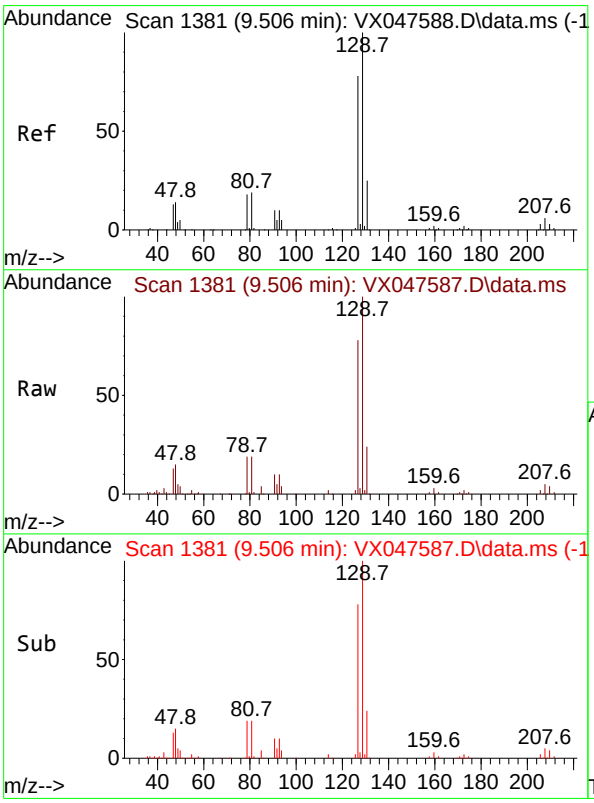
#59
2-Hexanone
Concen: 108.488 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 250007

Ion	Ratio	Lower	Upper
43	100		
58	51.4	26.1	78.2

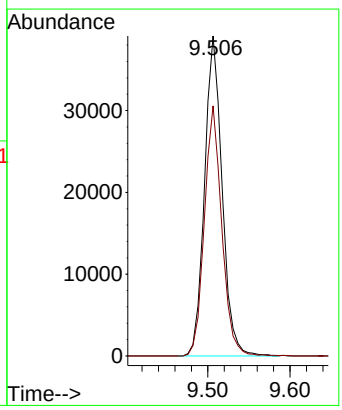


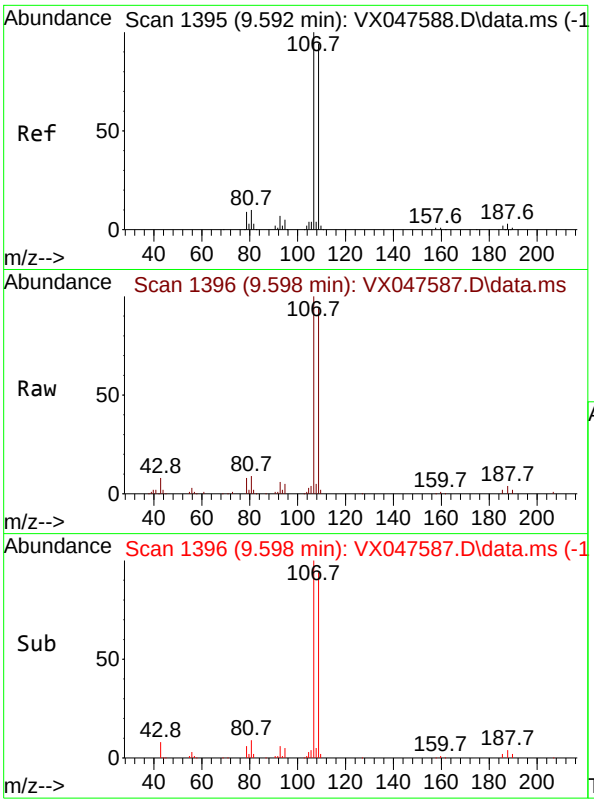


#60
Dibromochloromethane
Concen: 21.167 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:129 Resp: 57994

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2



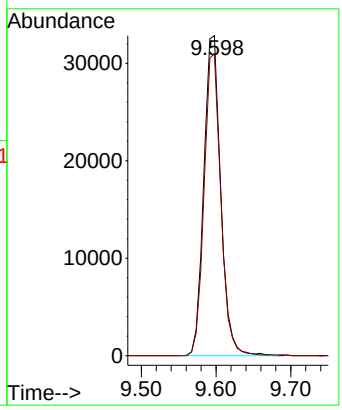


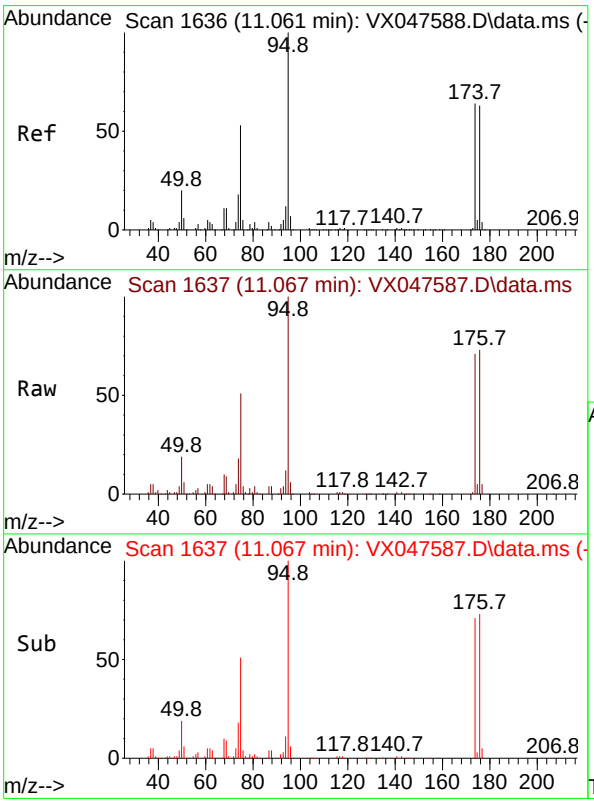
#61
1,2-Dibromoethane
Concen: 21.310 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 51614

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.3	112.9

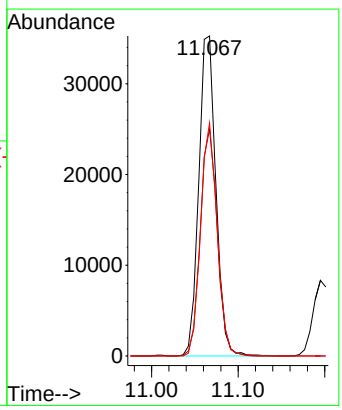


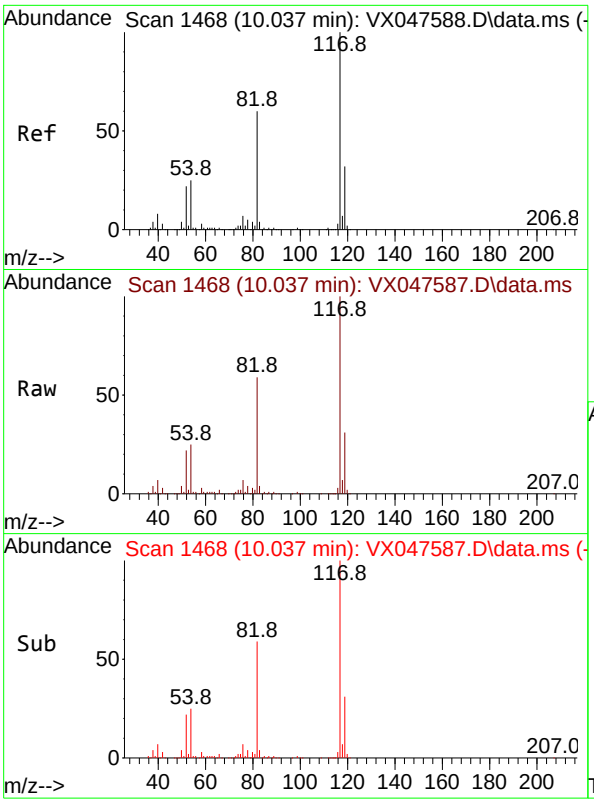


#62
4-Bromofluorobenzene
Concen: 16.360 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 95 Resp: 48454

Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	141.6
176	70.3	0.0	138.4



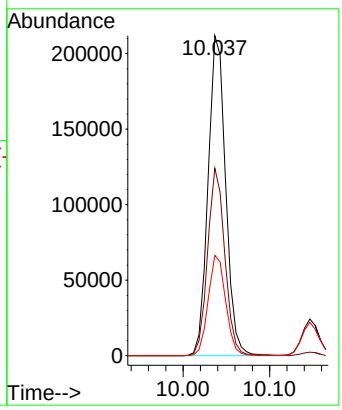


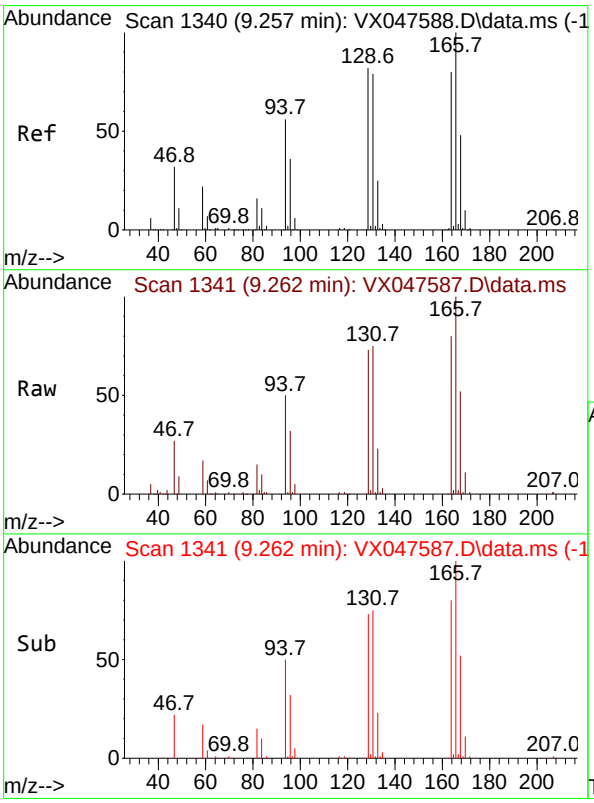
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 298629

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.8	71.6
119	31.3	25.2	37.8

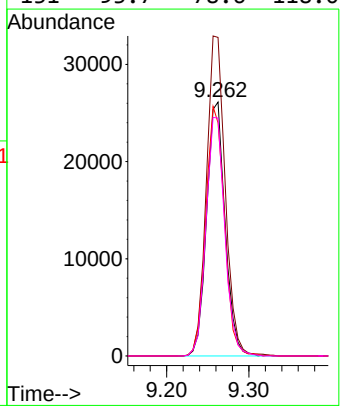


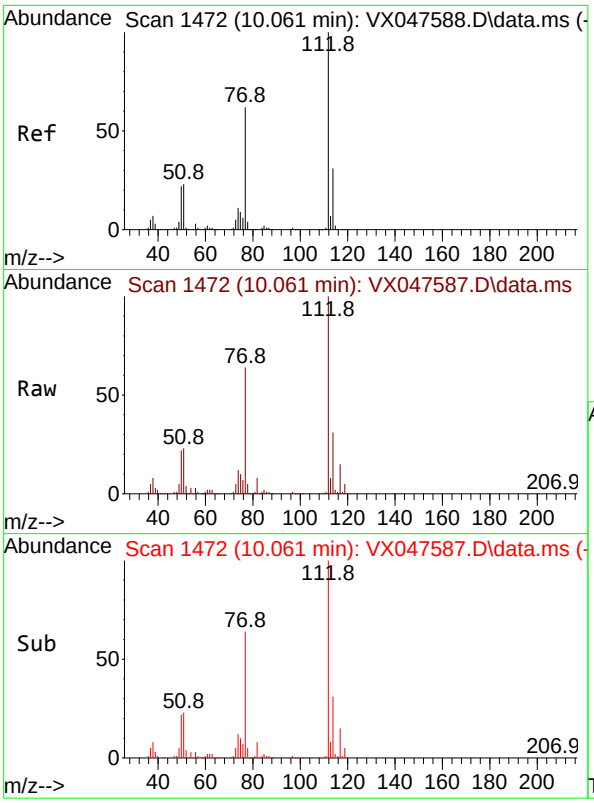


#64
Tetrachloroethene
Concen: 20.979 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:164 Resp: 40840

Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.2	150.2
129	91.8	81.8	122.6
131	93.7	78.6	118.0



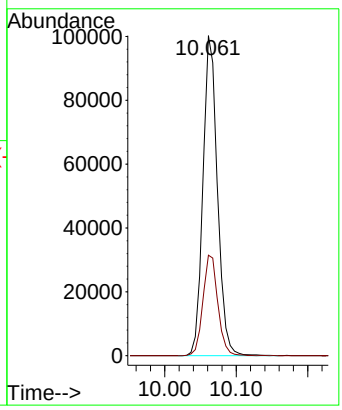


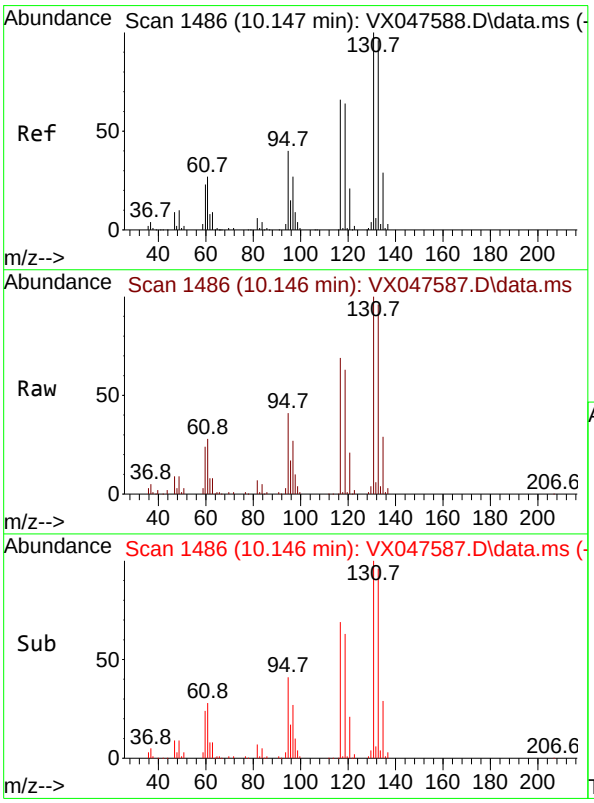
#65
Chlorobenzene
Concen: 20.731 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 140642

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

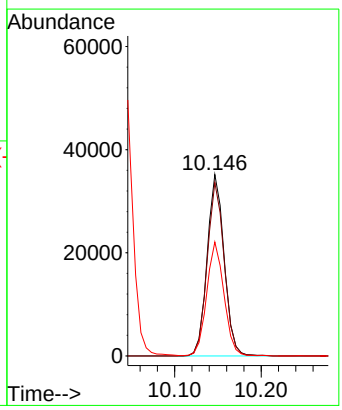


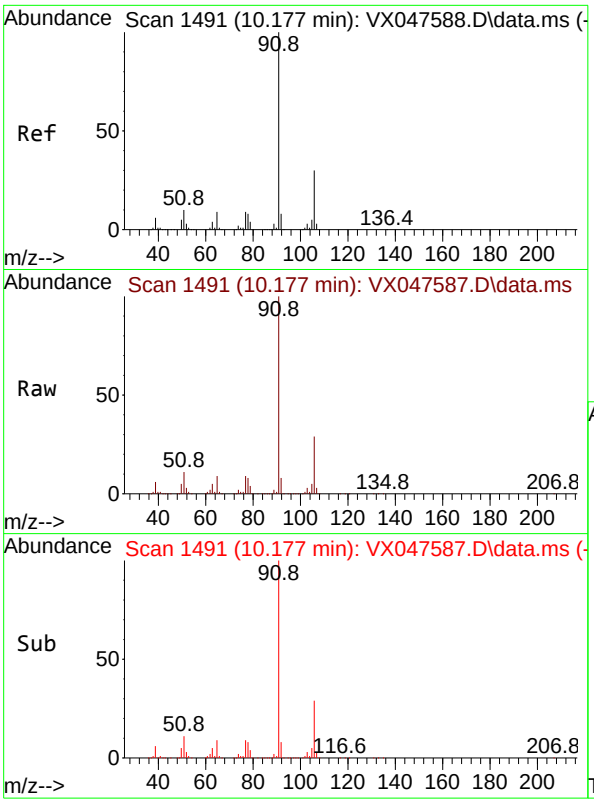


#66
1,1,1,2-Tetrachloroethane
Concen: 20.513 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:131 Resp: 48022

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.3	142.0
119	63.9	32.0	96.0



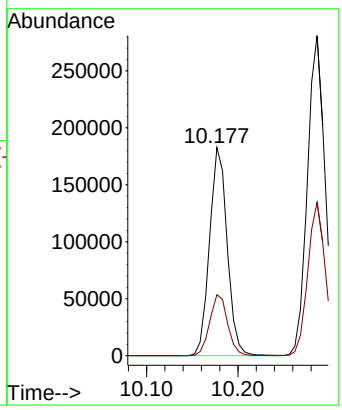


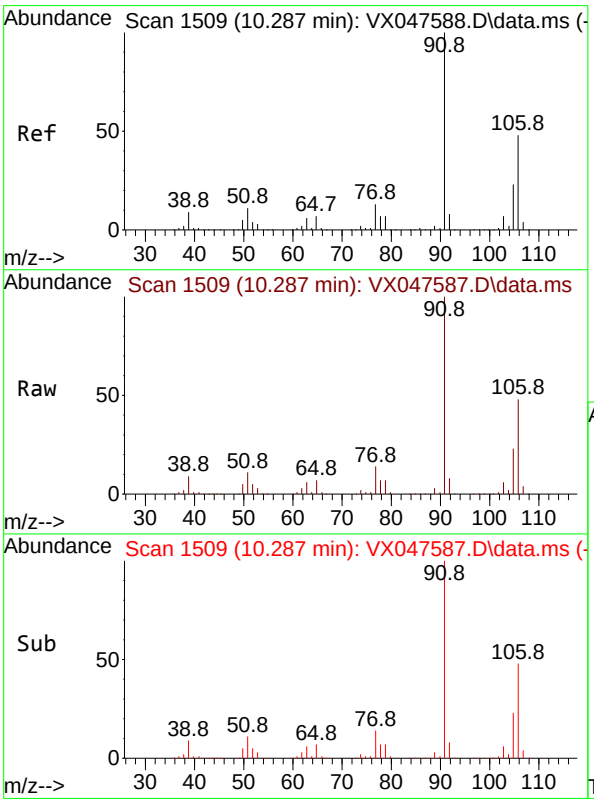
#67
Ethyl Benzene
Concen: 20.907 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 244737

Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.3	36.5

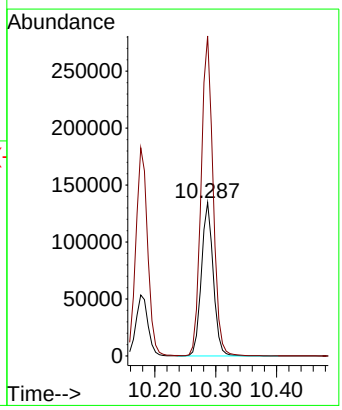


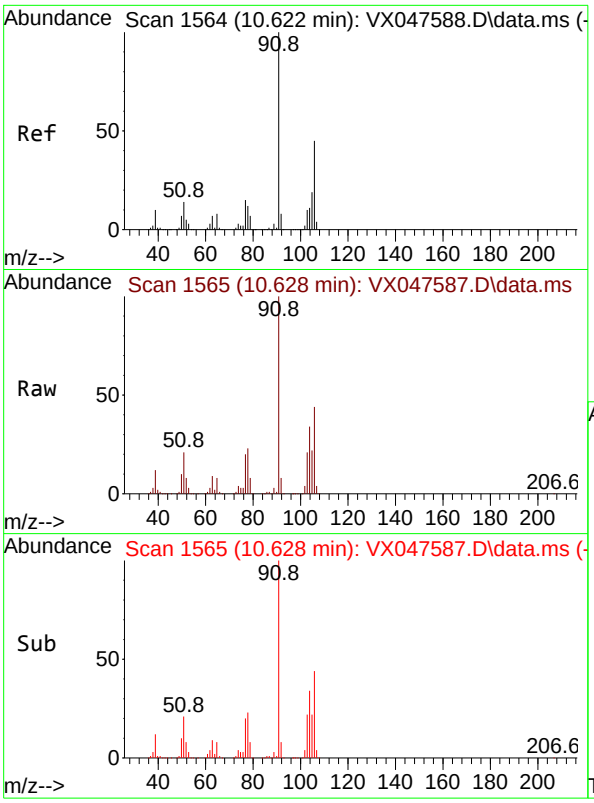


#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:106 Resp: 182778

Ion	Ratio	Lower	Upper
106	100		
91	210.2	167.8	251.8



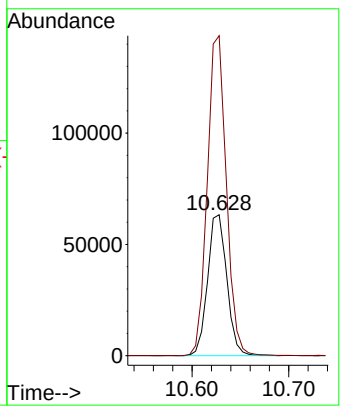


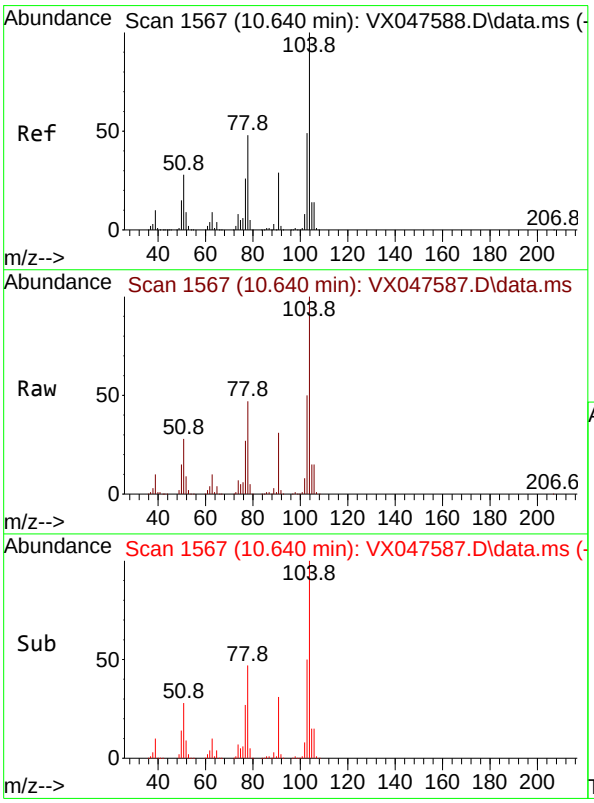
#69
o-Xylene
Concen: 20.799 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 87651

Ion	Ratio	Lower	Upper
106	100		
91	225.3	111.1	333.4

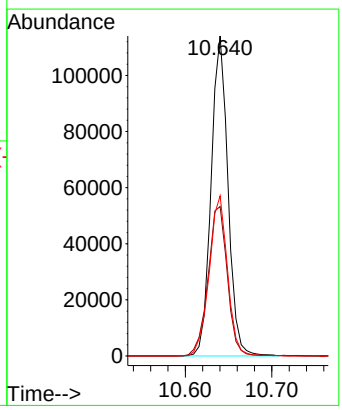


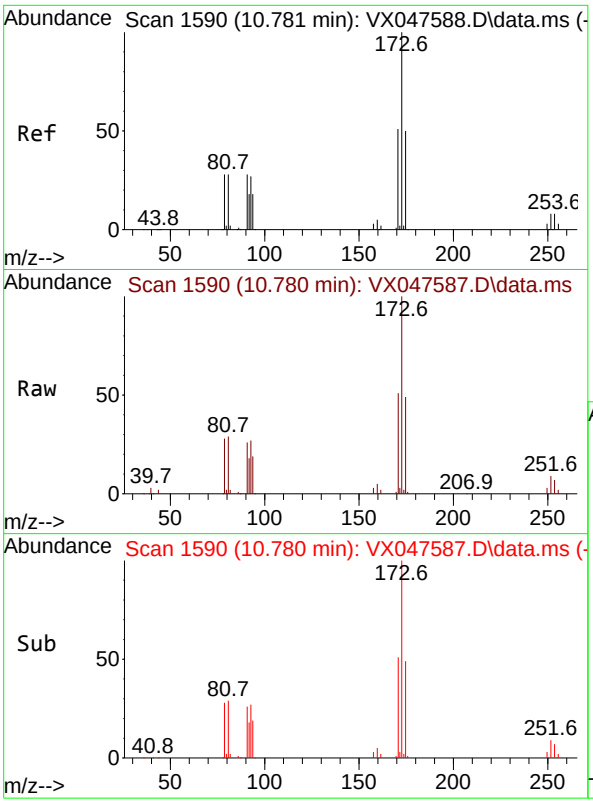


#70
Styrene
Concen: 20.866 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:104 Resp: 154077

Ion	Ratio	Lower	Upper
104	100		
78	53.6	43.1	64.7
103	54.4	43.1	64.7



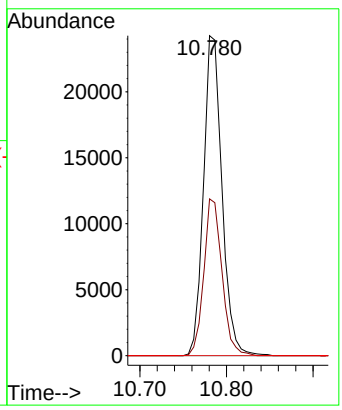


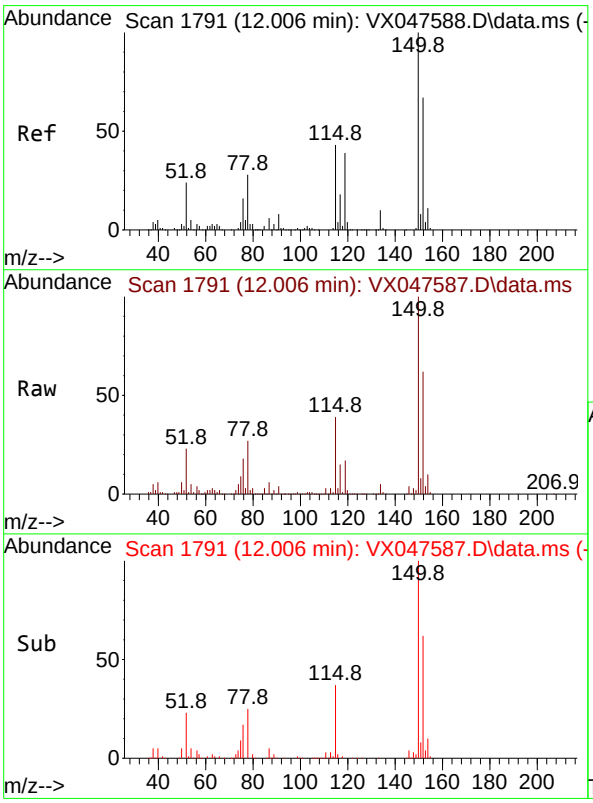
#71
Bromoform
Concen: 20.550 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 35922

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.9	74.6
254	0.0	0.1	0.1#

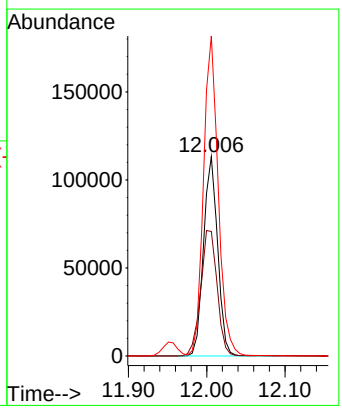


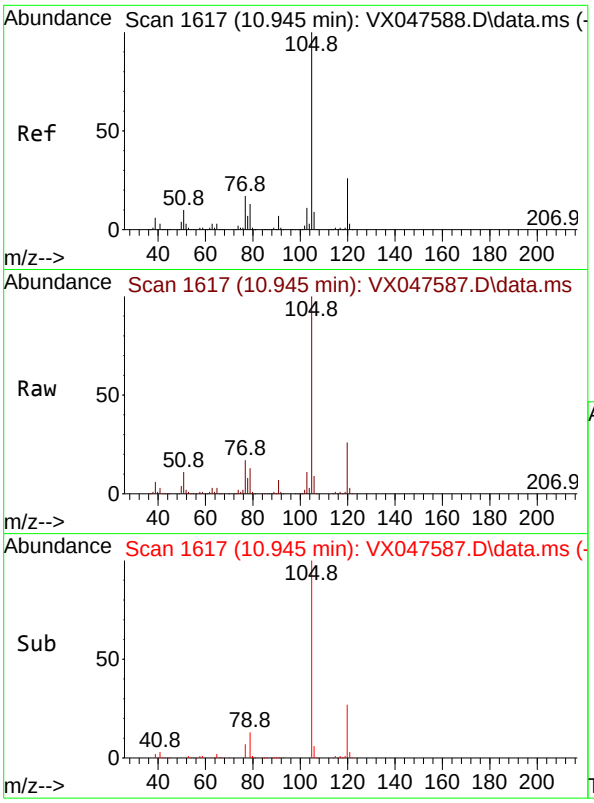


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:152 Resp: 141590

Ion	Ratio	Lower	Upper
152	100		
115	73.2	44.9	134.5
150	167.1	0.0	352.0



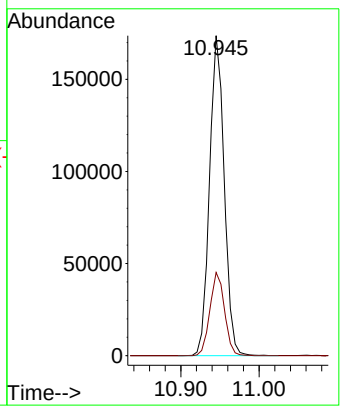


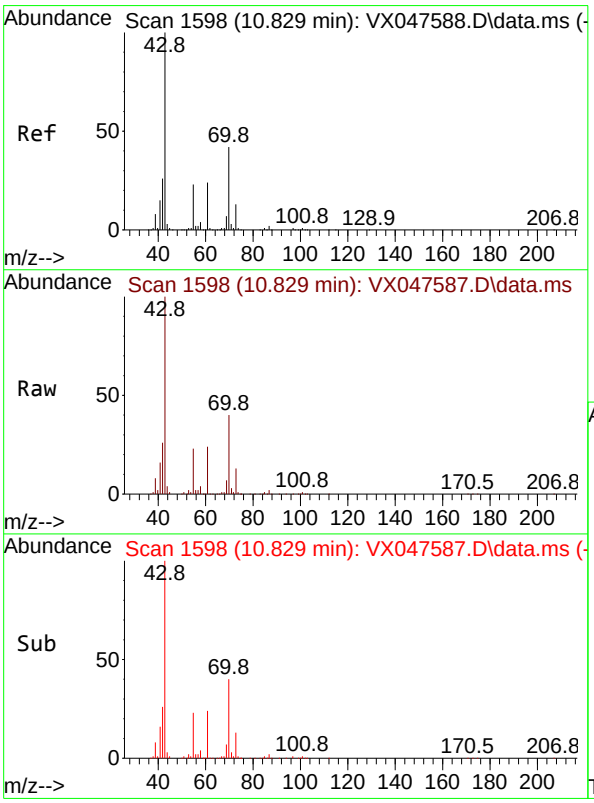
#73
Isopropylbenzene
Concen: 20.970 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 225730

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.4

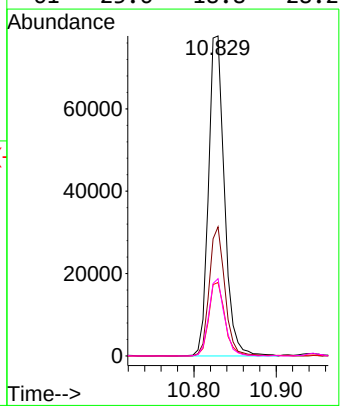


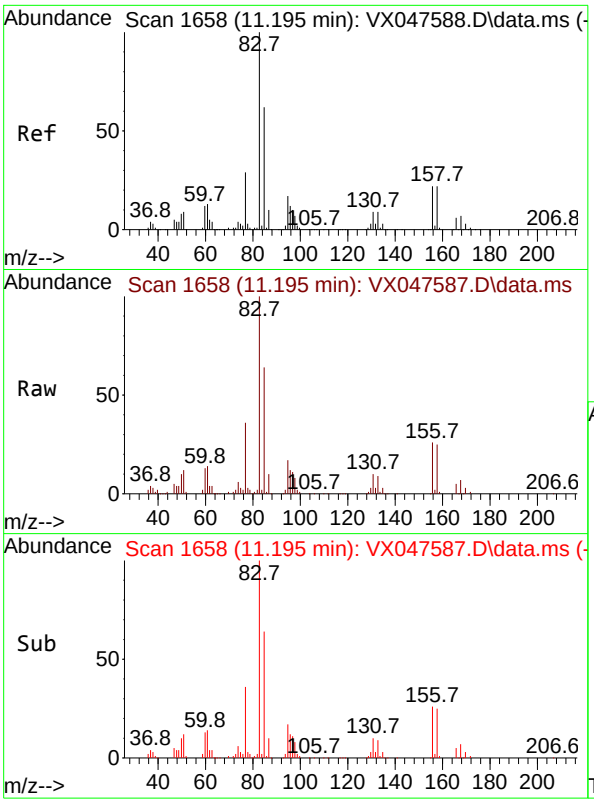


#74
N-amyl acetate
Concen: 21.354 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 104823

Ion	Ratio	Lower	Upper
43	100		
70	39.8	32.0	48.0
55	23.4	18.9	28.3
61	23.6	18.8	28.2



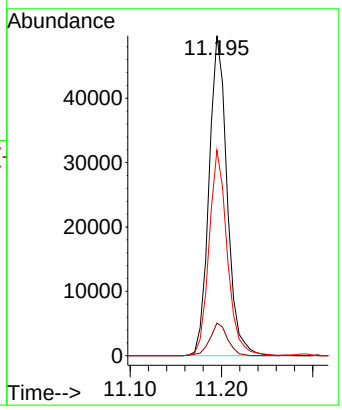


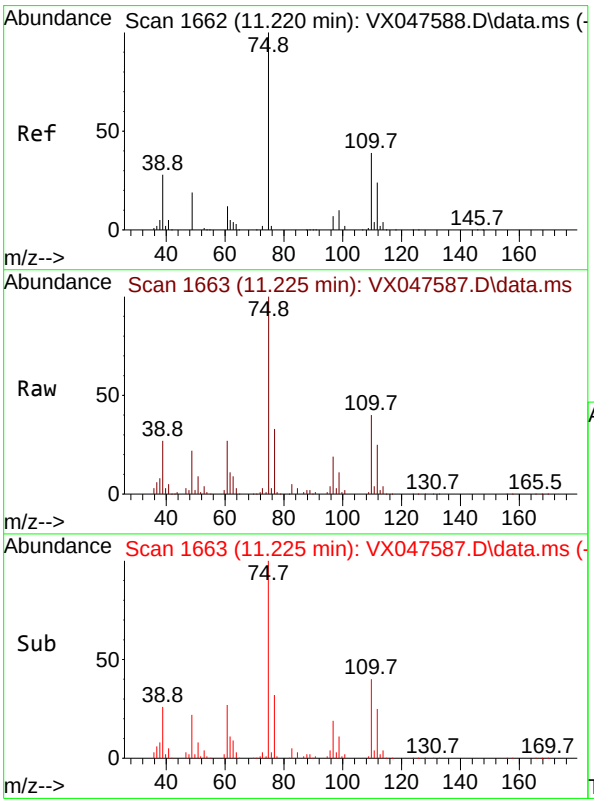
#75
1,1,2,2-Tetrachloroethane
Concen: 20.920 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 68132

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.4	31.6	95.0

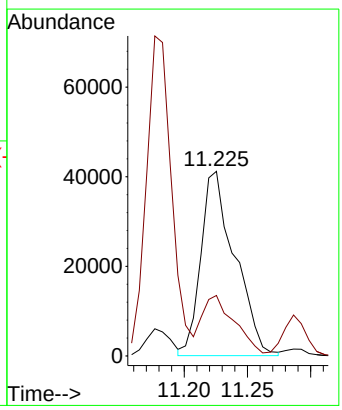


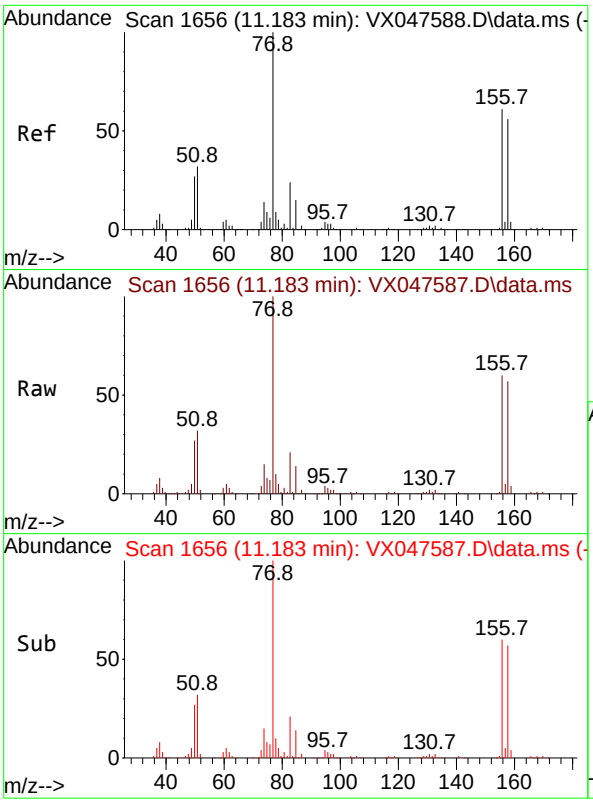


#76
1,2,3-Trichloropropane
Concen: 26.858 ug/l
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 76996

Ion	Ratio	Lower	Upper
75	100		
77	31.3	18.8	56.4



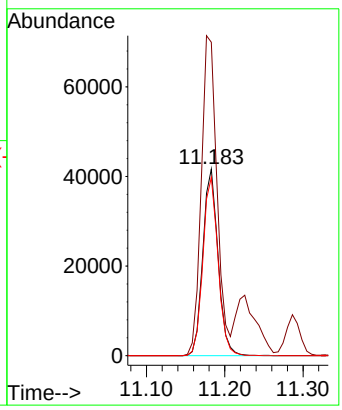


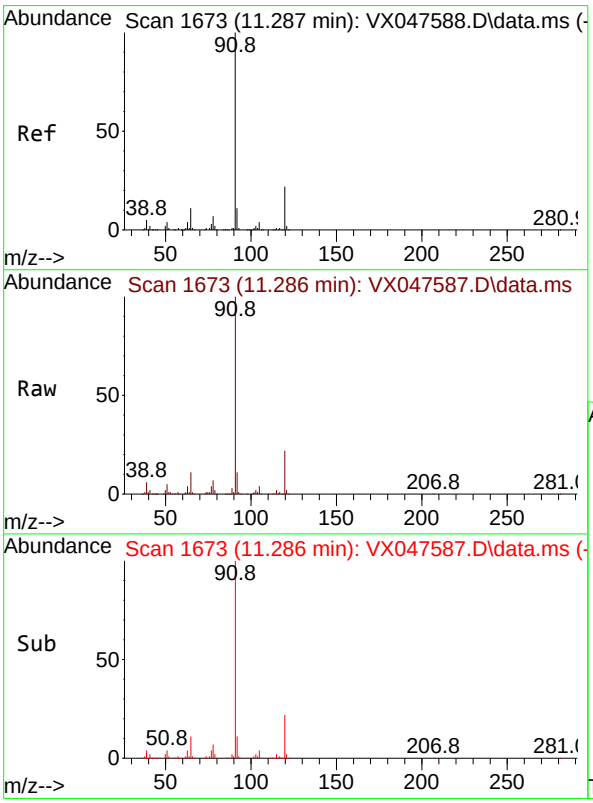
#77
Bromobenzene
Concen: 21.183 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 56161

Ion	Ratio	Lower	Upper
156	100		
77	177.4	89.7	269.1
158	95.2	47.9	143.6

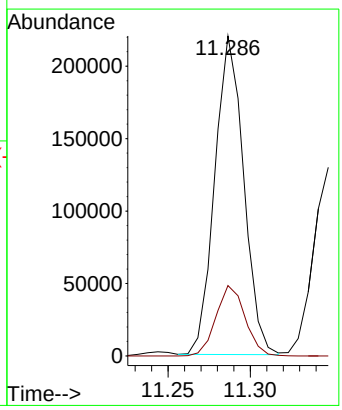


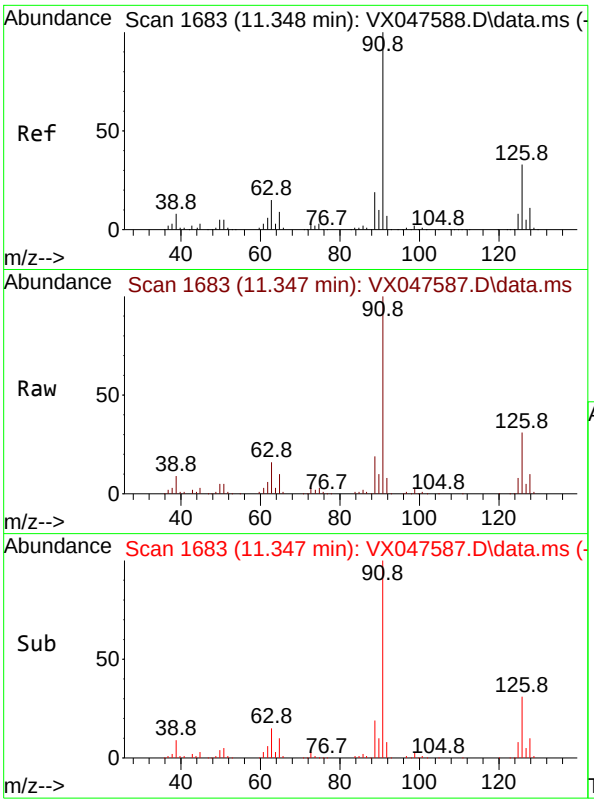


#78
n-propylbenzene
Concen: 21.092 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 268399

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1



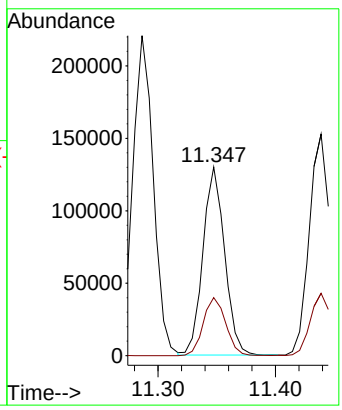


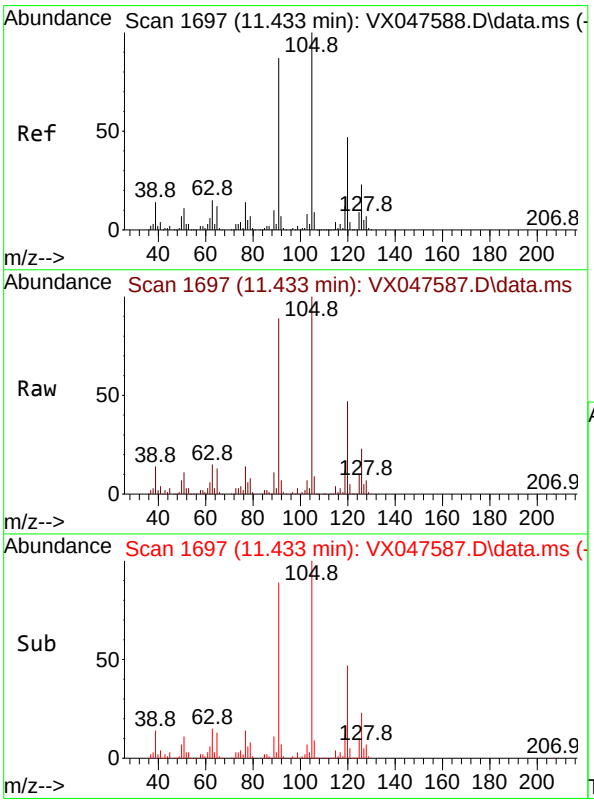
#79
2-Chlorotoluene
Concen: 21.329 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 166237

Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.1	48.3

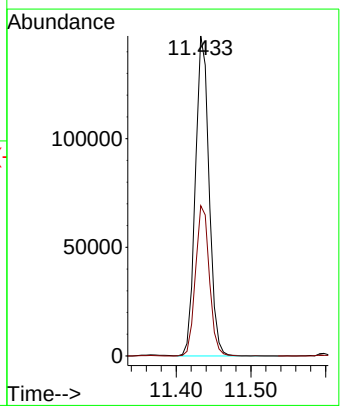


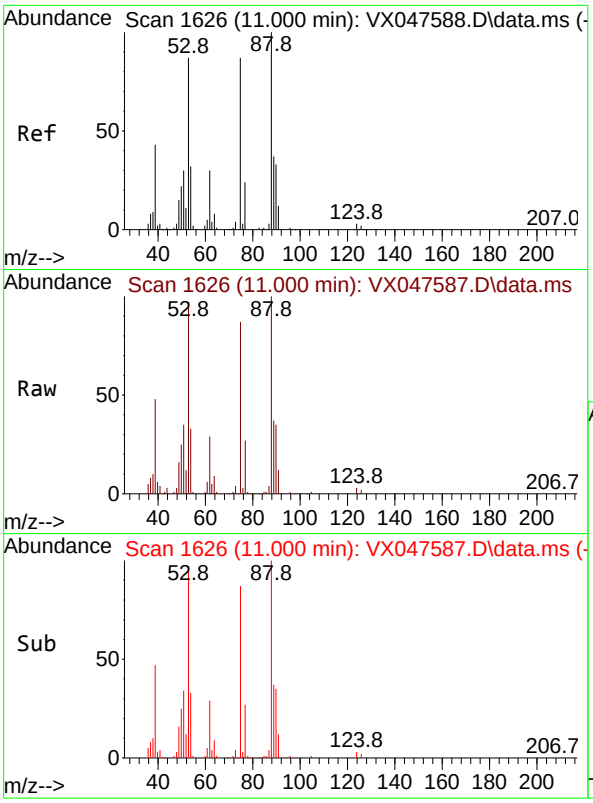


#80
1,3,5-Trimethylbenzene
Concen: 21.202 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 187513

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8



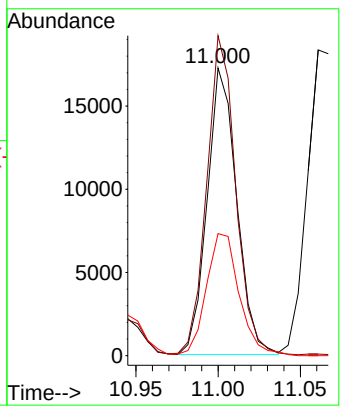


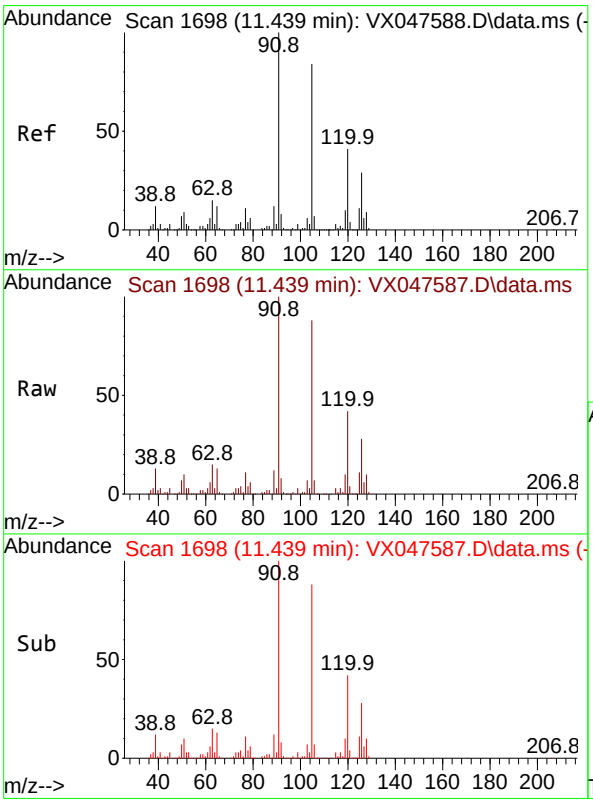
#81
trans-1,4-Dichloro-2-butene
Concen: 19.173 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 21553

Ion	Ratio	Lower	Upper
75	100		
53	109.1	83.4	125.2
89	47.6	36.3	54.5

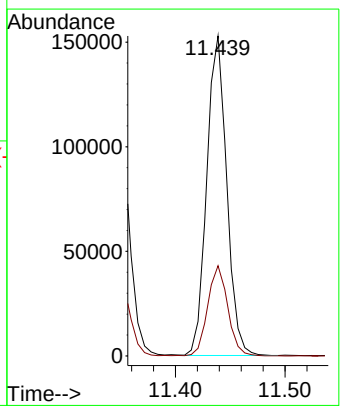


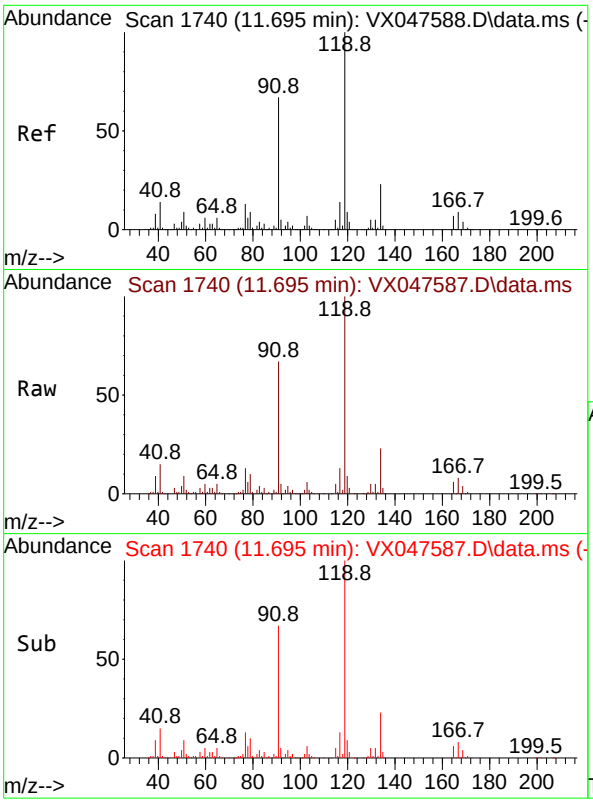


#82
4-Chlorotoluene
Concen: 20.980 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 193122

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6



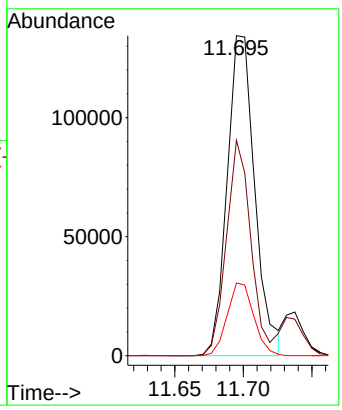


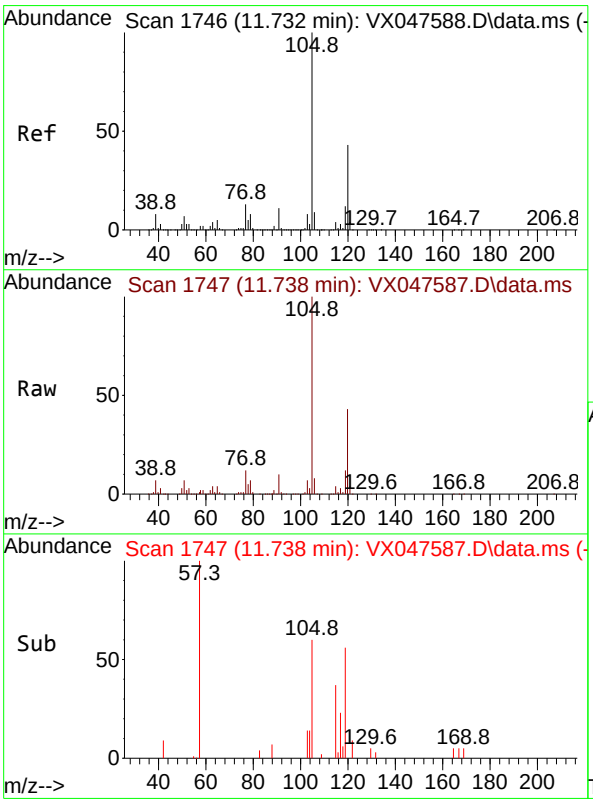
#83
tert-Butylbenzene
Concen: 20.929 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 189484

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	21.8	11.0	33.0

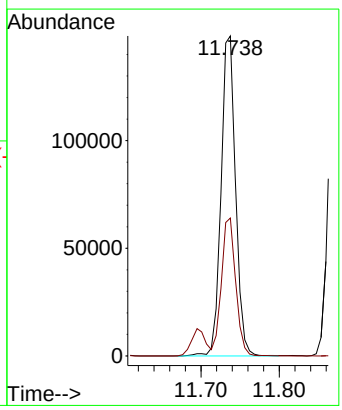


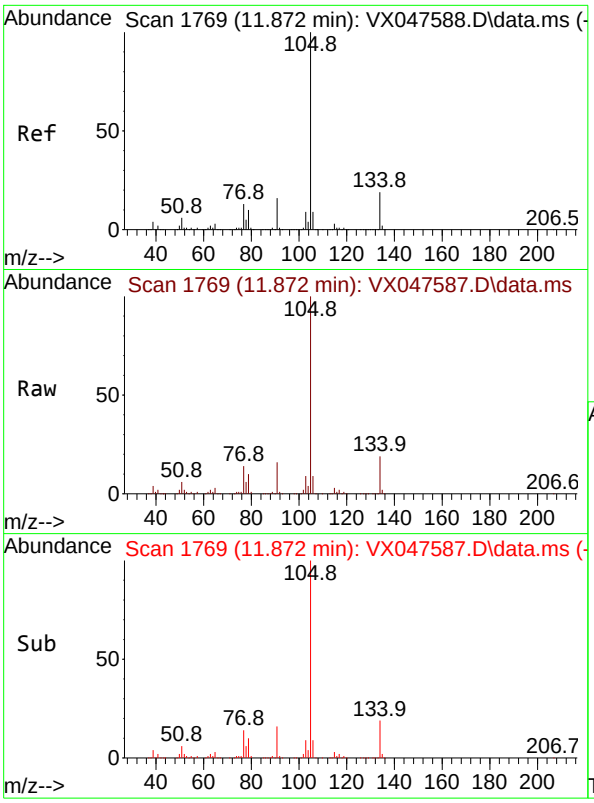


#84
1,2,4-Trimethylbenzene
Concen: 21.355 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 191477

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.1	66.1



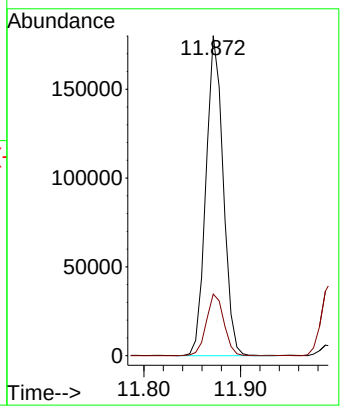


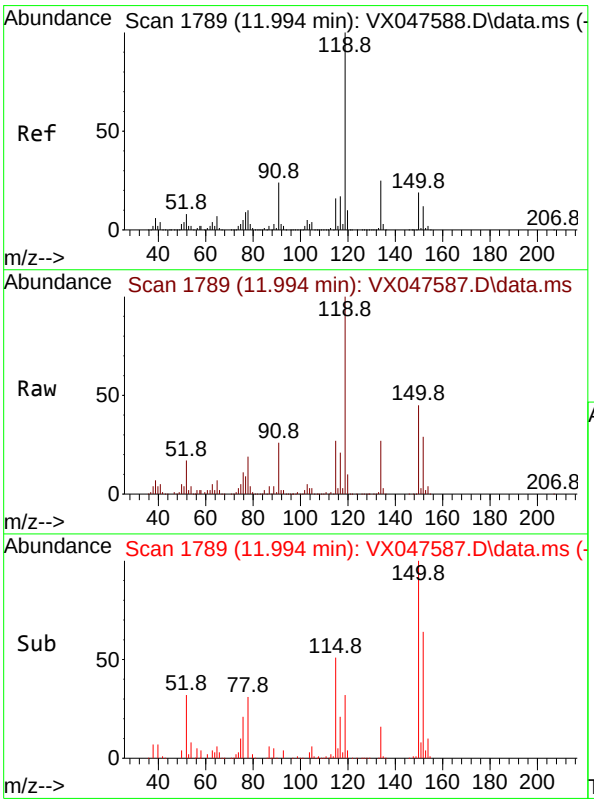
#85
sec-Butylbenzene
Concen: 20.777 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 223434

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

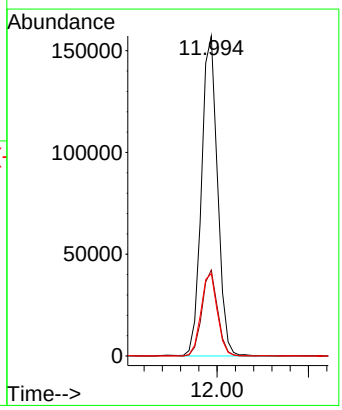


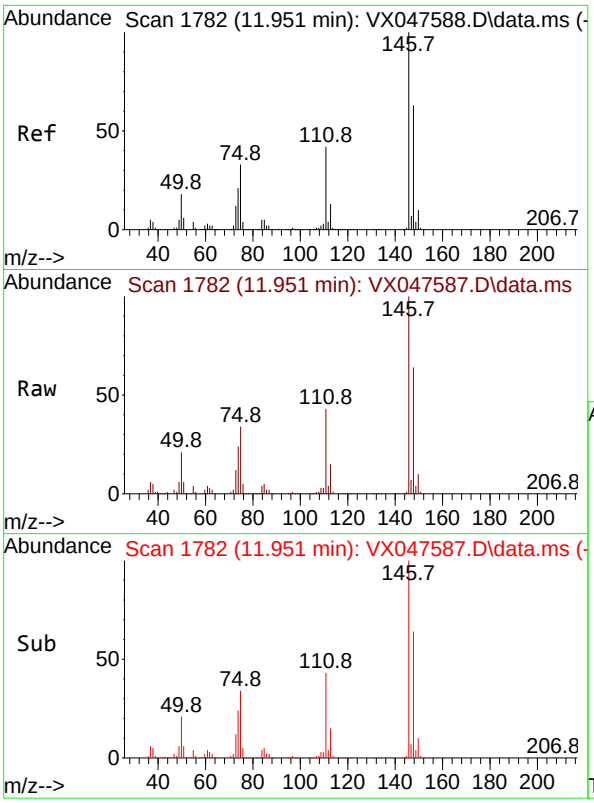


#86
p-Isopropyltoluene
Concen: 20.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:119 Resp: 190931

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	26.2	12.6	37.6



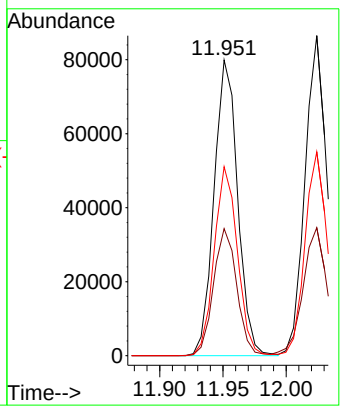


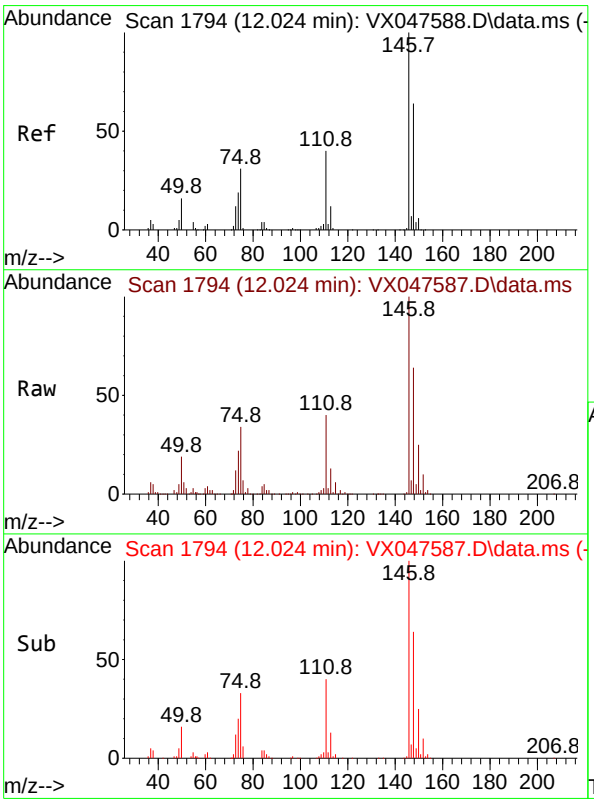
#87
1,3-Dichlorobenzene
Concen: 21.035 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 103584

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	62.7	32.0	96.0

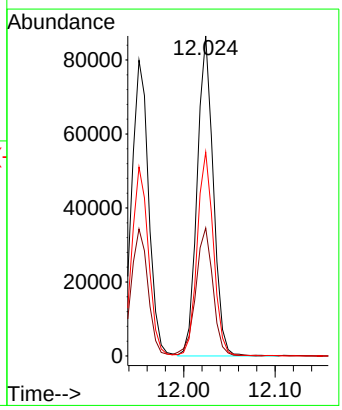


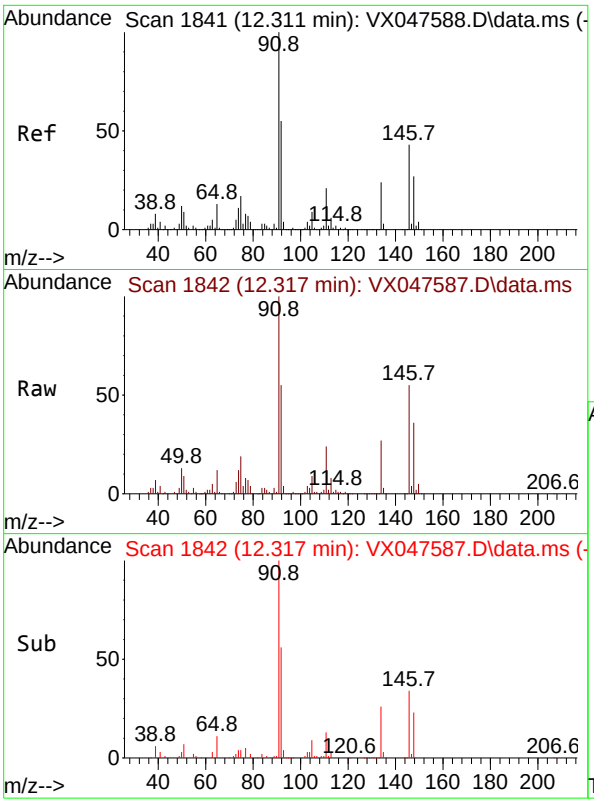


#88
1,4-Dichlorobenzene
Concen: 20.937 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 105819

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.4
148	64.4	31.7	95.1



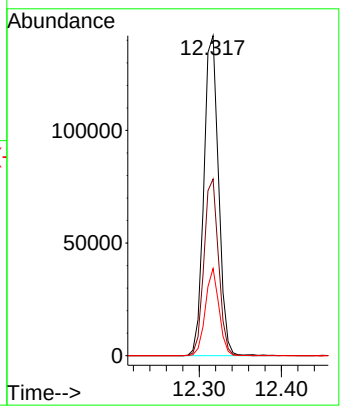


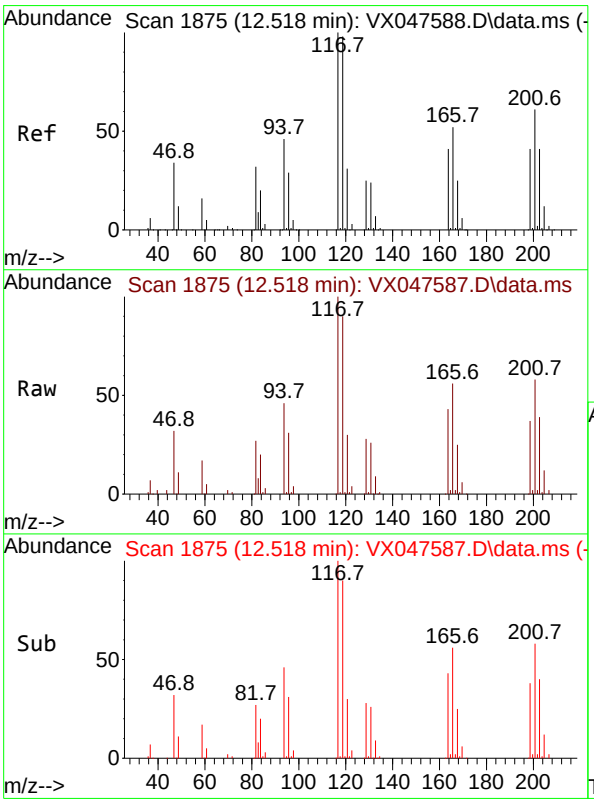
#89
n-Butylbenzene
Concen: 20.937 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 176373

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.3	12.6	37.8

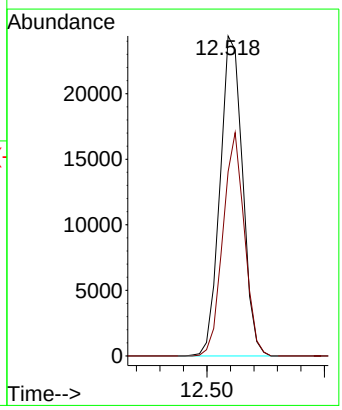


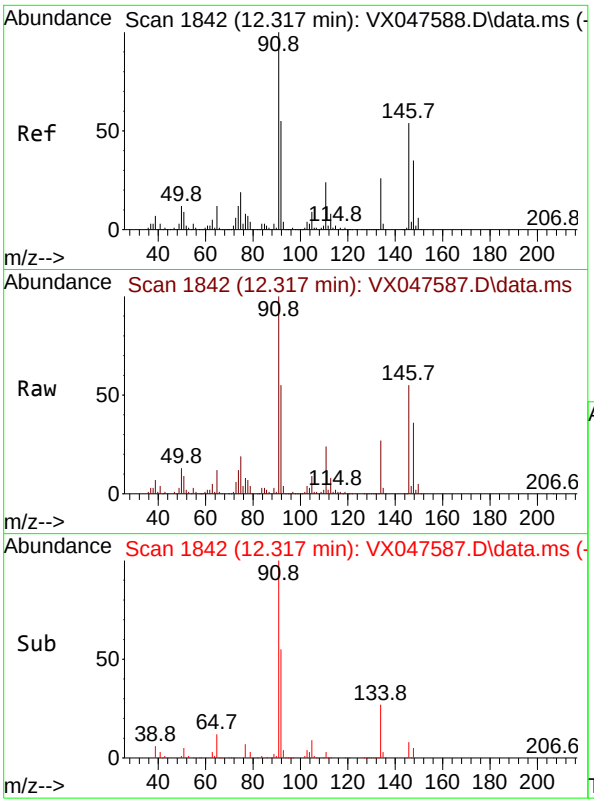


#90
Hexachloroethane
Concen: 20.349 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 32526

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5



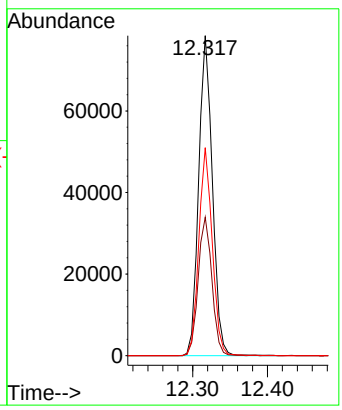


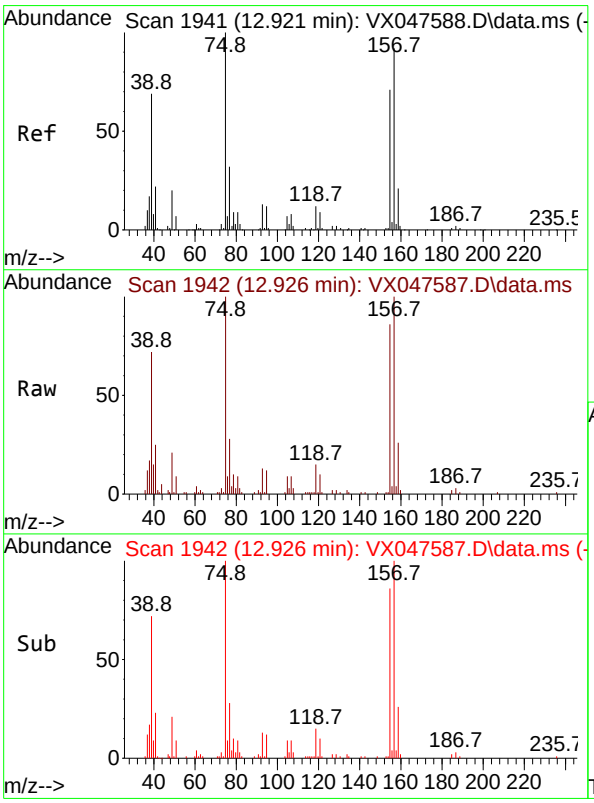
#91
1,2-Dichlorobenzene
Concen: 21.207 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 99493

Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.2	66.6
148	63.9	31.8	95.4

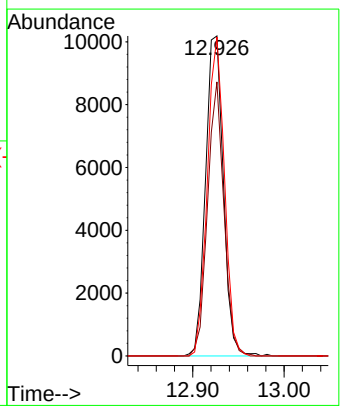


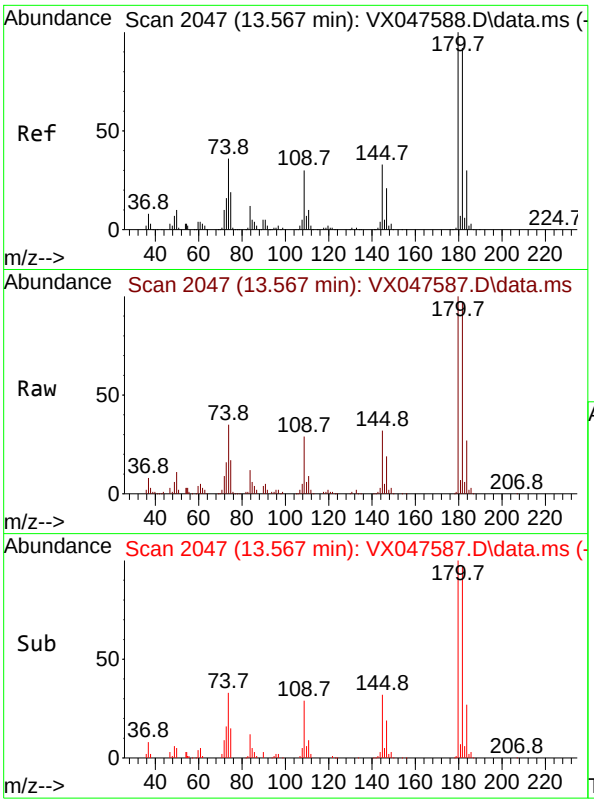


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.821 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 13729

Ion	Ratio	Lower	Upper
75	100		
155	78.8	37.7	113.1
157	95.9	49.8	149.4



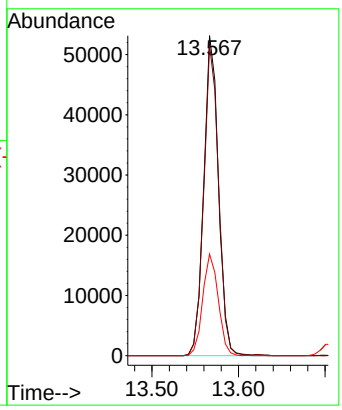


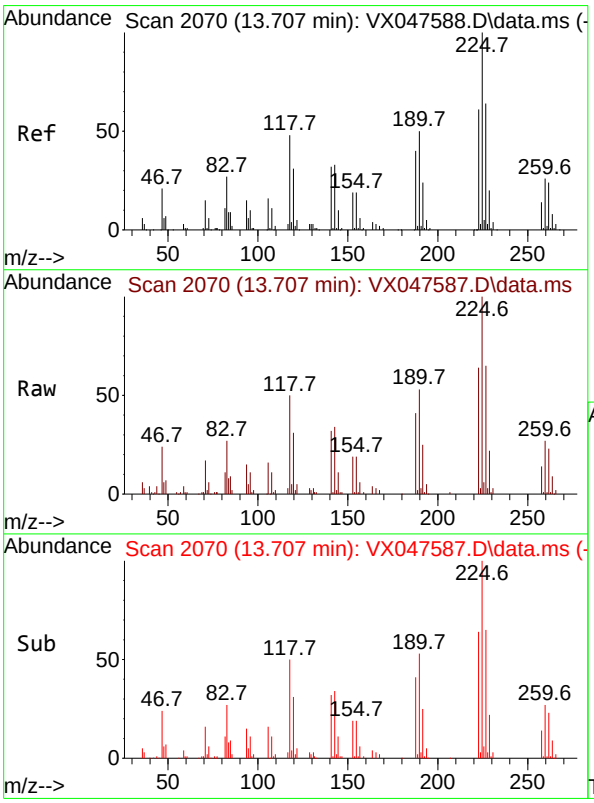
#93
1,2,4-Trichlorobenzene
Concen: 20.571 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 62722

Ion	Ratio	Lower	Upper
180	100		
182	97.8	46.6	139.8
145	33.4	16.4	49.1

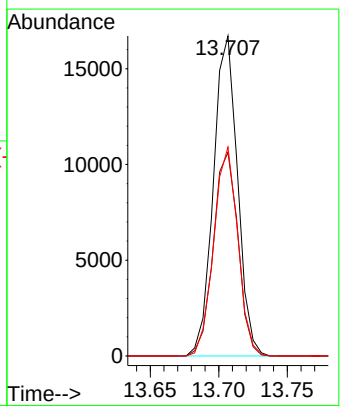


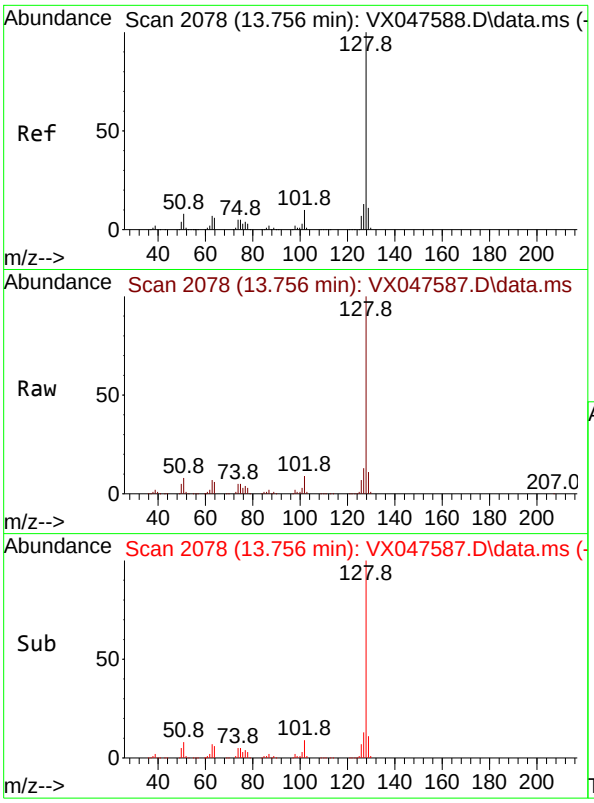


#94
Hexachlorobutadiene
Concen: 19.751 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:225 Resp: 20456

Ion	Ratio	Lower	Upper
225	100		
223	65.0	31.7	95.1
227	65.1	32.0	96.0



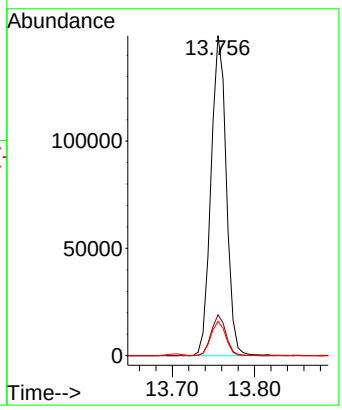


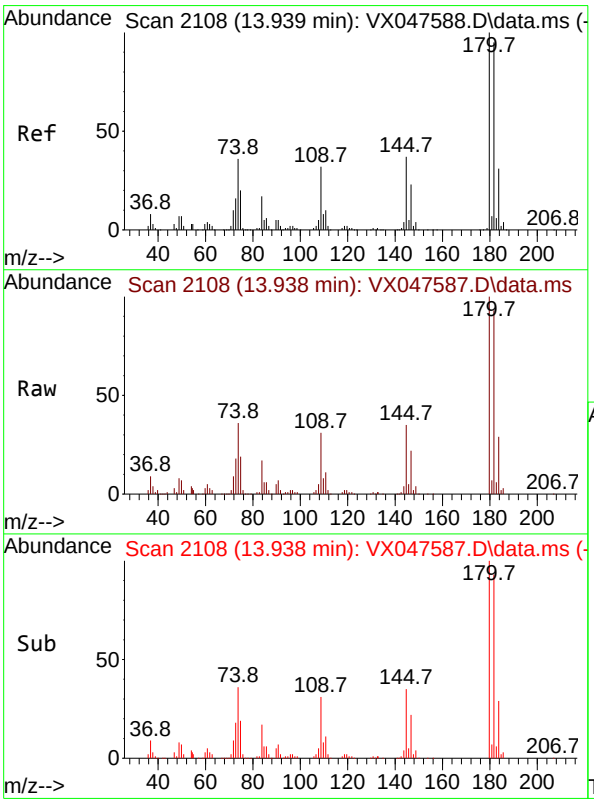
#95
Naphthalene
Concen: 20.801 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 193134

Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.2
129	10.5	8.8	13.2

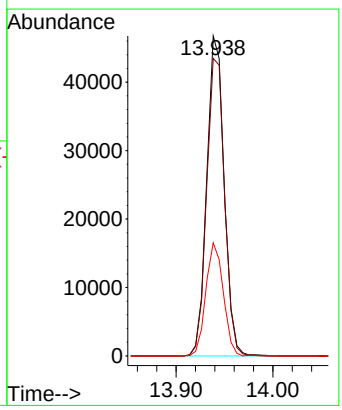




#96
1,2,3-Trichlorobenzene
Concen: 20.593 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:180 Resp: 58409

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.5	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Sep 22 01:50:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	173407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	307383	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270040	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	127732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	133606	48.404	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 96.800%			
35) Dibromofluoromethane	5.373	113	101627	49.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.600%			
50) Toluene-d8	8.635	98	352578	49.428	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.860%			
62) 4-Bromofluorobenzene	11.061	95	131217	48.471	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	86824	48.352	ug/l	100
3) Chloromethane	1.301	50	114682	48.594	ug/l	100
4) Vinyl Chloride	1.380	62	114666	49.635	ug/l	100
5) Bromomethane	1.618	94	73561	50.216	ug/l	100
6) Chloroethane	1.697	64	76736	49.698	ug/l	100
7) Trichlorofluoromethane	1.898	101	172561	50.307	ug/l	100
8) Diethyl Ether	2.136	74	70874	50.510	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	101178	50.445	ug/l	100
10) Methyl Iodide	2.459	142	158046	50.525	ug/l	100
11) Tert butyl alcohol	2.941	59	77232	251.232	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104724	50.831	ug/l	100
13) Acrolein	2.239	56	70721	249.645	ug/l	100
14) Allyl chloride	2.666	41	210001	49.396	ug/l	100
15) Acrylonitrile	3.063	53	300642	264.027	ug/l	100
16) Acetone	2.374	43	275065	229.193	ug/l	100
17) Carbon Disulfide	2.520	76	271480	48.133	ug/l	100
18) Methyl Acetate	2.703	43	151968	56.897	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	389607	51.804	ug/l	100
20) Methylene Chloride	2.788	84	126506	49.798	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	112553	50.743	ug/l	100
22) Diisopropyl ether	3.758	45	429524	52.131	ug/l	100
23) Vinyl Acetate	3.715	43	1726735	261.852	ug/l	100
24) 1,1-Dichloroethane	3.605	63	224824	51.338	ug/l	100
25) 2-Butanone	4.538	43	380335	254.060	ug/l	100
26) 2,2-Dichloropropane	4.465	77	185247	50.888	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	140105	51.576	ug/l	100
28) Bromochloromethane	4.891	49	99991	52.301	ug/l	100
29) Tetrahydrofuran	4.989	42	238677	265.026	ug/l	100
30) Chloroform	5.080	83	229430	51.844	ug/l	100
31) Cyclohexane	5.458	56	178546	48.952	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	195407	52.058	ug/l	100
36) 1,1-Dichloropropene	5.684	75	149800	49.729	ug/l	100
37) Ethyl Acetate	4.702	43	163482	50.687	ug/l	100
38) Carbon Tetrachloride	5.672	117	165730	50.637	ug/l	100
39) Methylcyclohexane	7.367	83	173610	50.773	ug/l	100
40) Benzene	6.025	78	468136	51.167	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Sep 22 01:50:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	87761	52.707	ug/l		100
42) 1,2-Dichloroethane	6.074	62	179037	51.431	ug/l		100
43) Isopropyl Acetate	6.324	43	275572	52.096	ug/l		100
44) Trichloroethene	7.111	130	113832	51.463	ug/l		100
45) 1,2-Dichloropropane	7.415	63	122109	52.122	ug/l		100
46) Dibromomethane	7.568	93	88505	51.914	ug/l		100
47) Bromodichloromethane	7.806	83	186540	53.025	ug/l		100
48) Methyl methacrylate	7.678	41	138167	52.438	ug/l		100
49) 1,4-Dioxane	7.647	88	29496	1107.698	ug/l		100
51) 4-Methyl-2-Pentanone	8.562	43	784978	267.650	ug/l		100
52) Toluene	8.702	92	288853	51.244	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	190282	53.027	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	200859	52.369	ug/l		100
55) 1,1,2-Trichloroethane	9.135	97	112837	51.915	ug/l		100
56) Ethyl methacrylate	9.104	69	184087	53.930	ug/l		100
57) 1,3-Dichloropropane	9.293	76	195989	52.492	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	418707	256.309	ug/l		100
59) 2-Hexanone	9.415	43	553313	262.683	ug/l		100
60) Dibromochloromethane	9.506	129	133737	53.401	ug/l		100
61) 1,2-Dibromoethane	9.592	107	116462	52.607	ug/l		100
64) Tetrachloroethene	9.257	164	88149	50.074	ug/l		100
65) Chlorobenzene	10.061	112	317982	51.833	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.147	131	111849	52.835	ug/l		100
67) Ethyl Benzene	10.177	91	550610	52.017	ug/l		100
68) m/p-Xylenes	10.287	106	412932	104.809	ug/l		100
69) o-Xylene	10.622	106	202291	53.084	ug/l		100
70) Styrene	10.640	104	350654	52.515	ug/l		100
71) Bromoform	10.781	173	84485	53.447	ug/l	#	100
73) Isopropylbenzene	10.945	105	516891	53.227	ug/l		100
74) N-amyl acetate	10.829	43	237846	53.710	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	156454	53.251	ug/l		100
76) 1,2,3-Trichloropropane	11.220	75	178309	68.947	ug/l		88
77) Bromobenzene	11.183	156	126174	52.754	ug/l		100
78) n-propylbenzene	11.287	91	612035	53.315	ug/l		100
79) 2-Chlorotoluene	11.348	91	372397	52.965	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	426989	53.518	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	52927	52.190	ug/l		100
82) 4-Chlorotoluene	11.439	91	438502	52.806	ug/l		100
83) tert-Butylbenzene	11.695	119	429107	52.539	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	427073	52.798	ug/l		100
85) sec-Butylbenzene	11.872	105	514442	53.029	ug/l		100
86) p-Isopropyltoluene	11.994	119	436704	53.172	ug/l		100
87) 1,3-Dichlorobenzene	11.951	146	232038	52.232	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	233975	51.316	ug/l		100
89) n-Butylbenzene	12.311	91	400997	52.766	ug/l		100
90) Hexachloroethane	12.518	117	75800	52.567	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	222993	52.688	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.921	75	32451	54.554	ug/l		100
93) 1,2,4-Trichlorobenzene	13.567	180	147670	53.685	ug/l		100
94) Hexachlorobutadiene	13.707	225	49061	52.510	ug/l		100
95) Naphthalene	13.756	128	452013	53.966	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	138978	54.316	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Sep 22 01:50:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

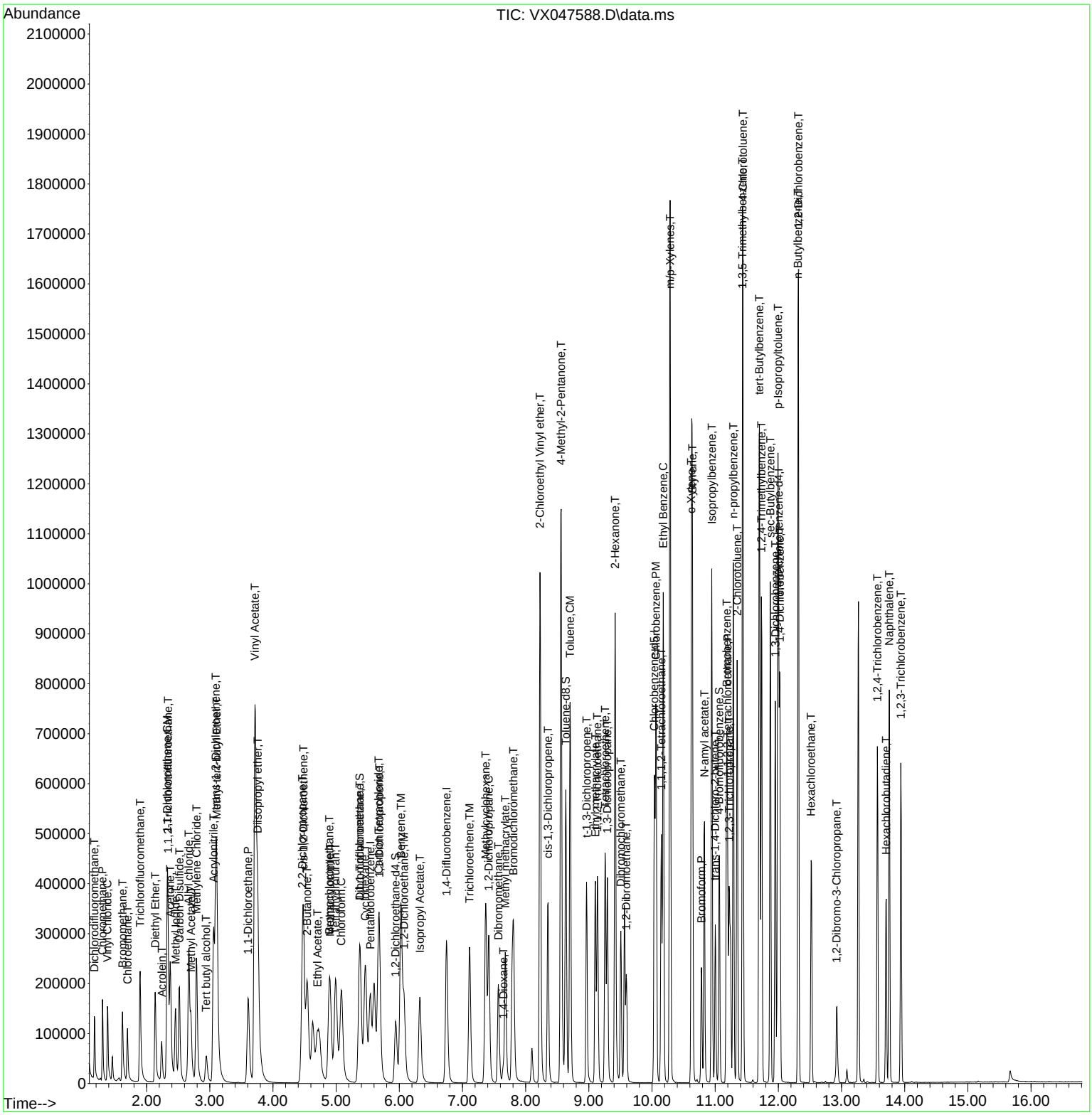
(#) = qualifier out of range (m) = manual integration (+) = signals summed

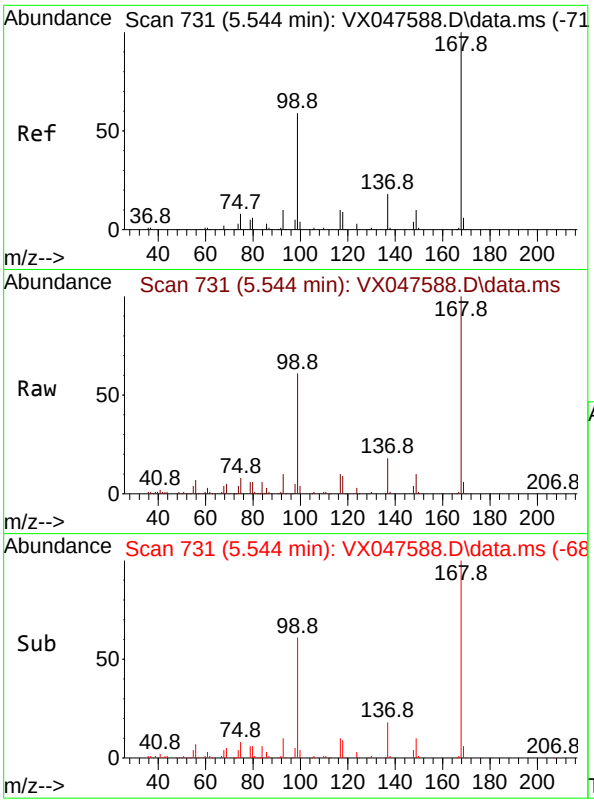
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Sep 22 01:50:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



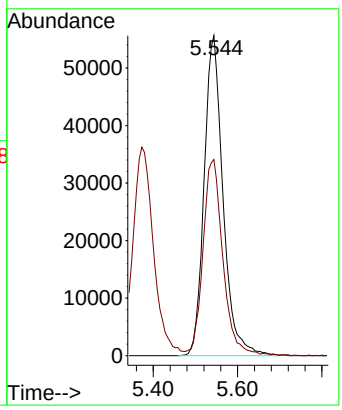


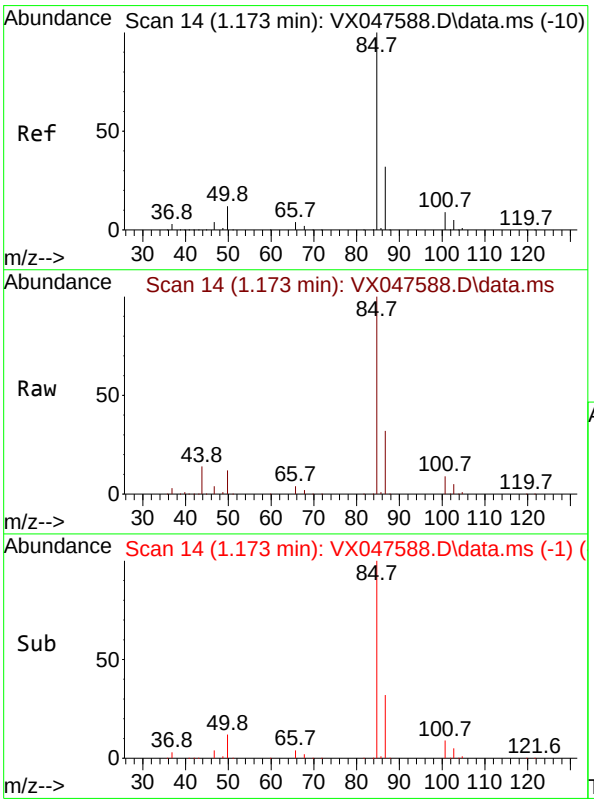
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 173407

Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2

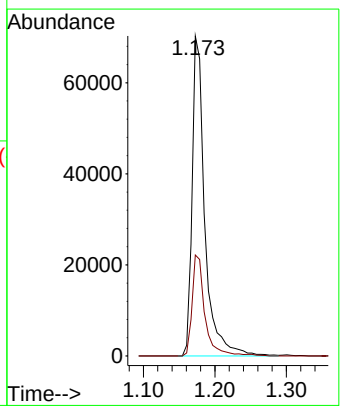


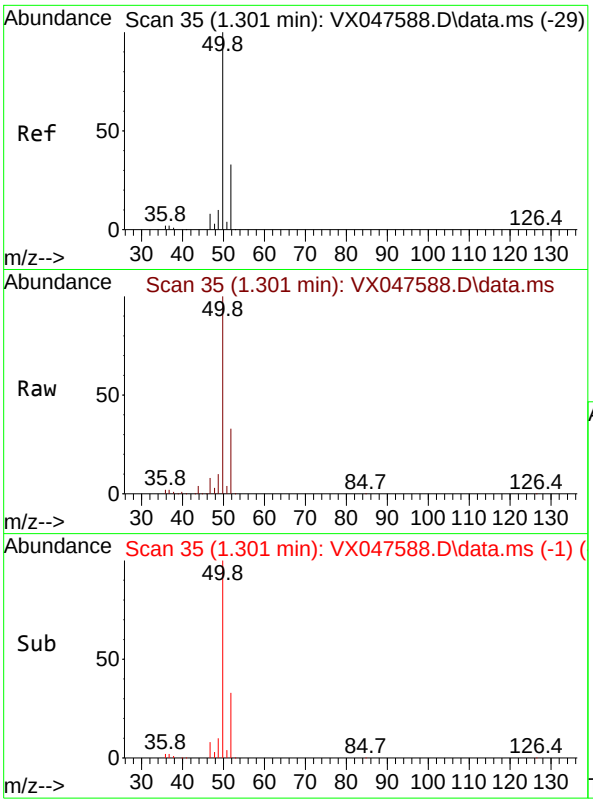


#2
Dichlorodifluoromethane
Concen: 48.352 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 85 Resp: 86824

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3



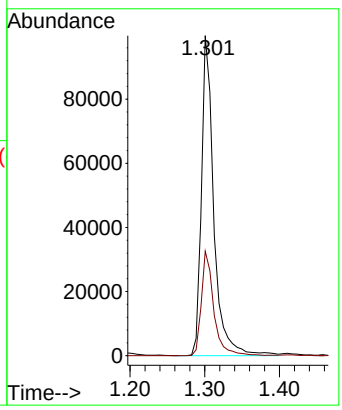


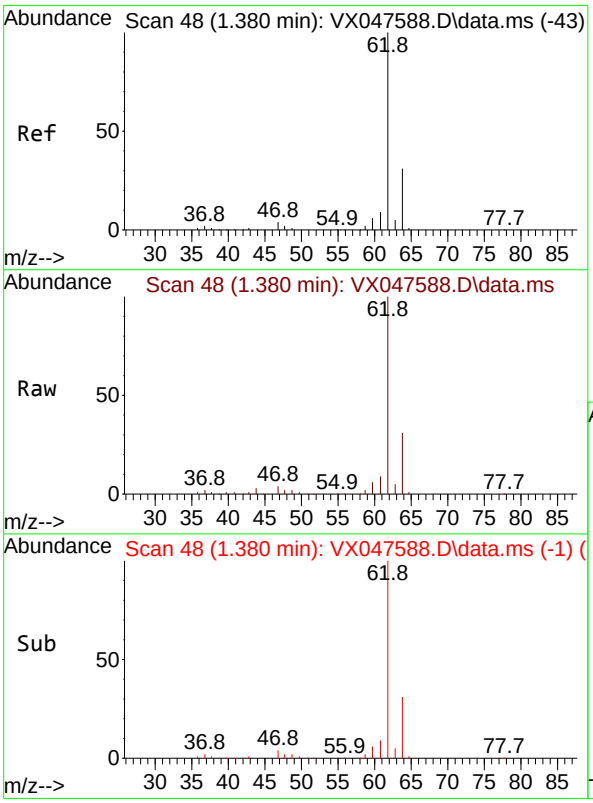
#3
Chloromethane
Concen: 48.594 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 114682

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1

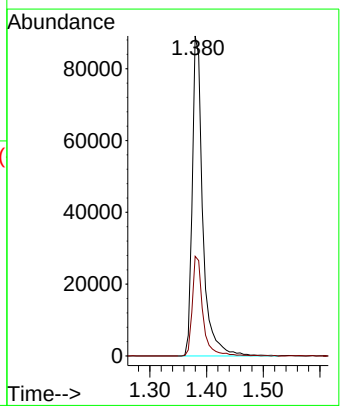


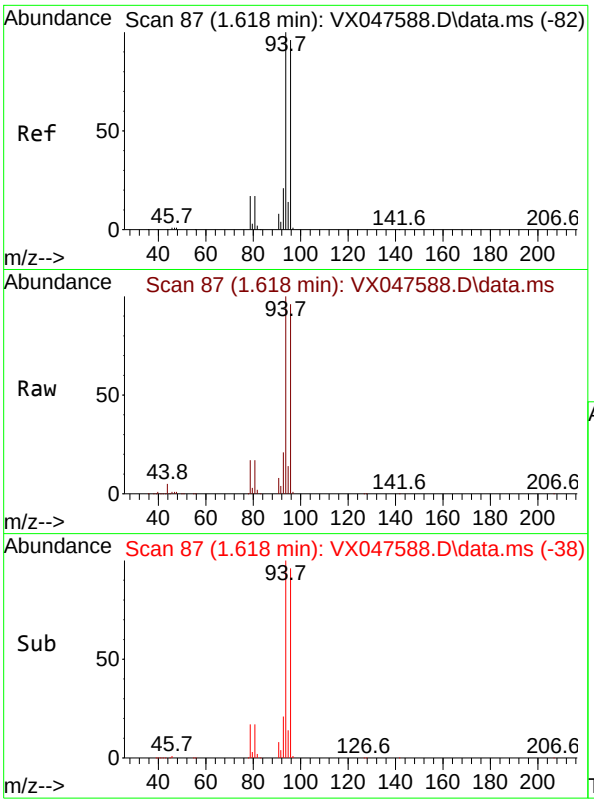


#4
Vinyl Chloride
Concen: 49.635 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 114666

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3



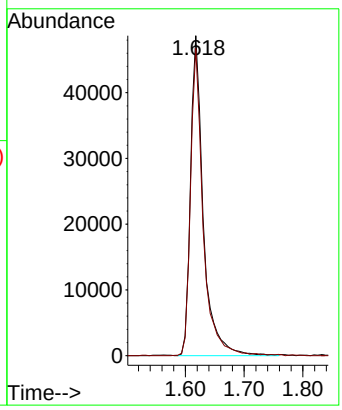


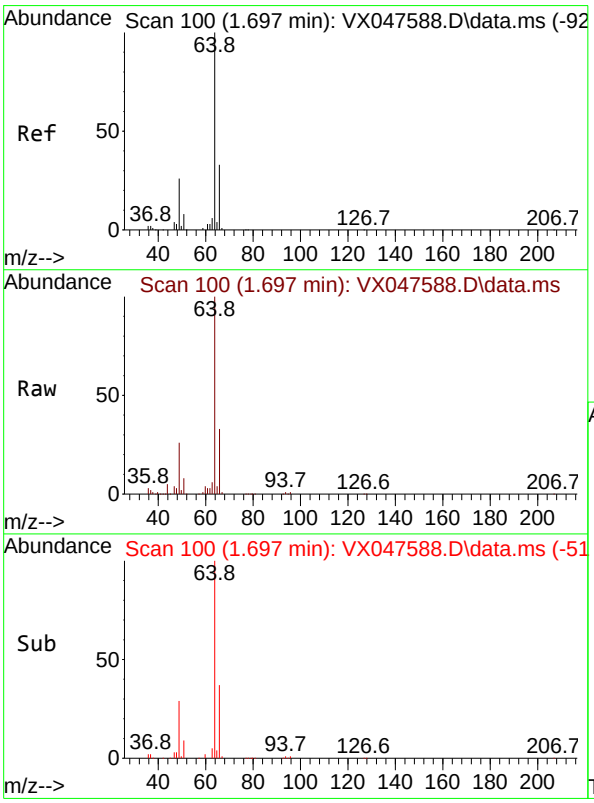
#5
Bromomethane
Concen: 50.216 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 73561

Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.6	115.0

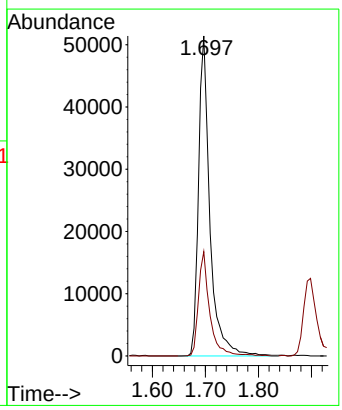


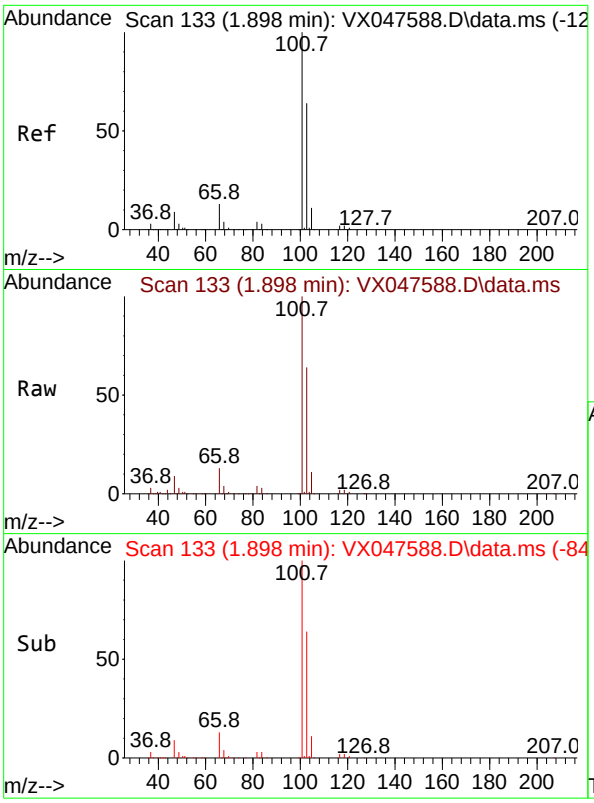


#6
Chloroethane
Concen: 49.698 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 64 Resp: 76736

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.1	39.1



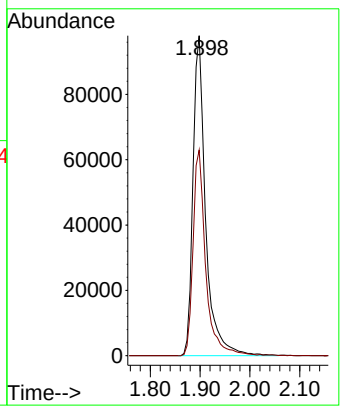


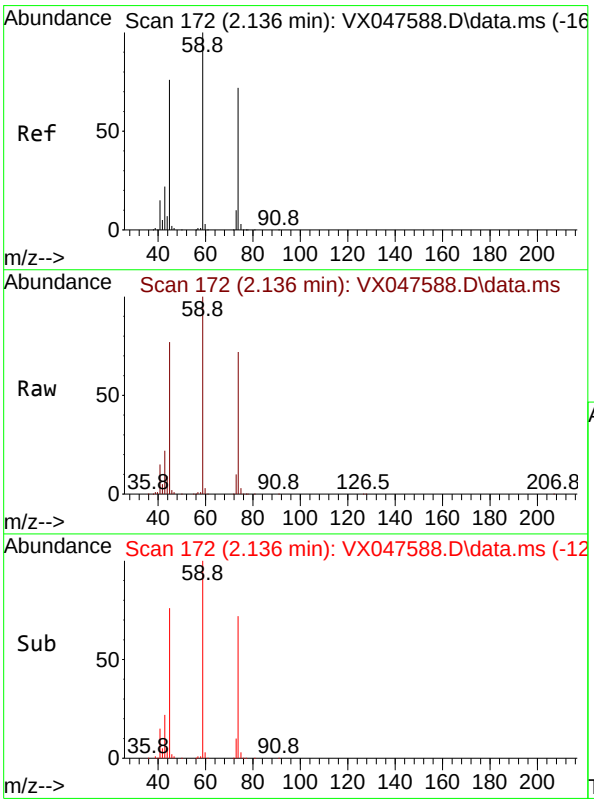
#7
Trichlorofluoromethane
Concen: 50.307 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 172561

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.4	77.2

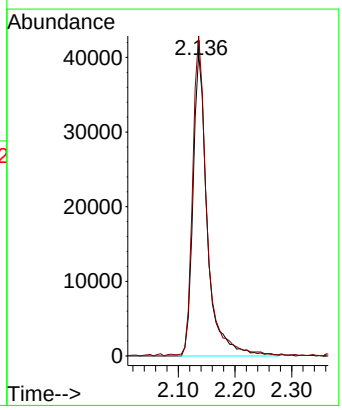


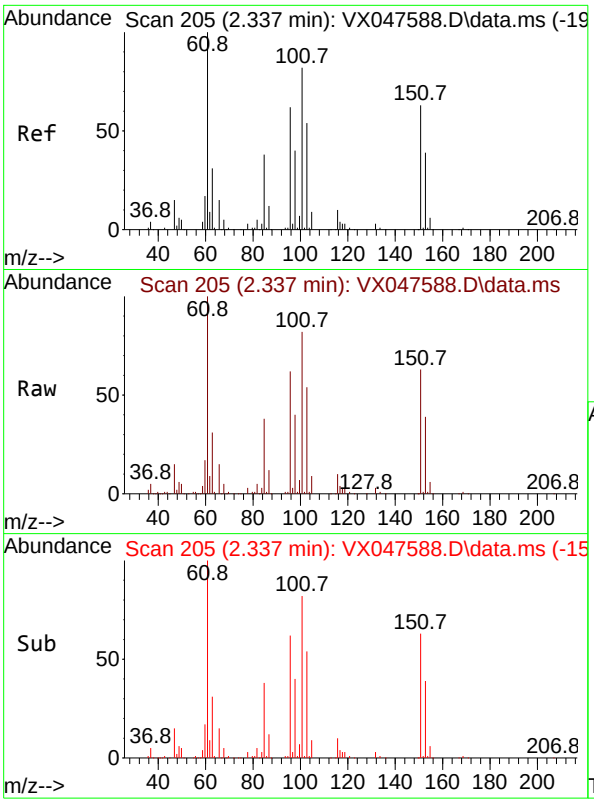


#8
Diethyl Ether
Concen: 50.510 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 74 Resp: 70874

Ion	Ratio	Lower	Upper
74	100		
45	104.5	52.3	156.8



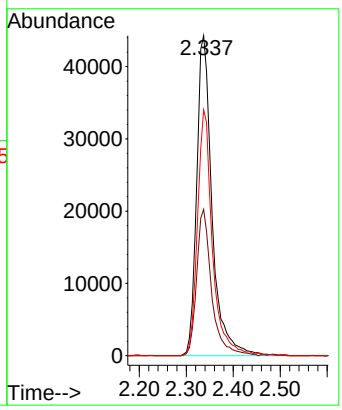


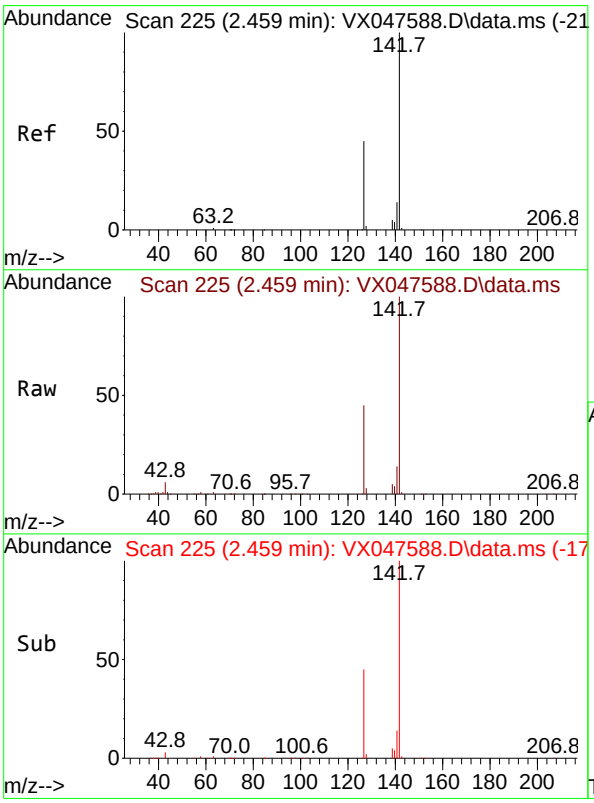
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.445 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 101178

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	74.2	59.4	89.0

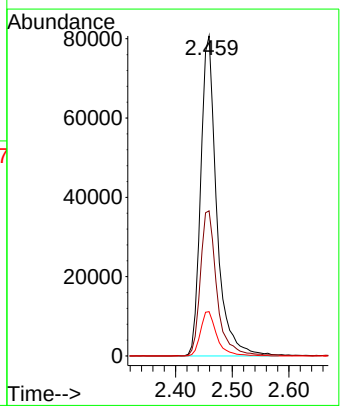


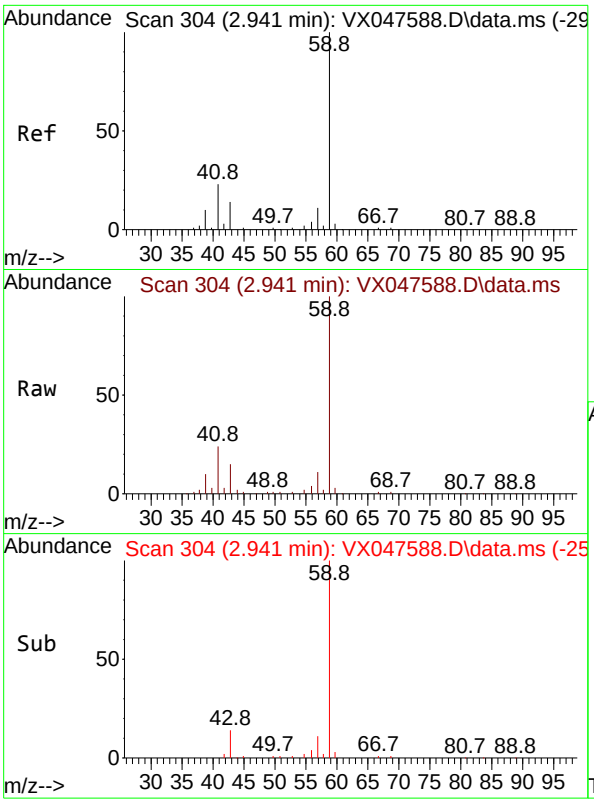


#10
Methyl Iodide
Concen: 50.525 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:142 Resp: 158046

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.2	11.4	17.0



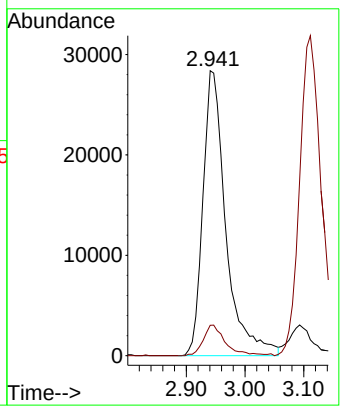


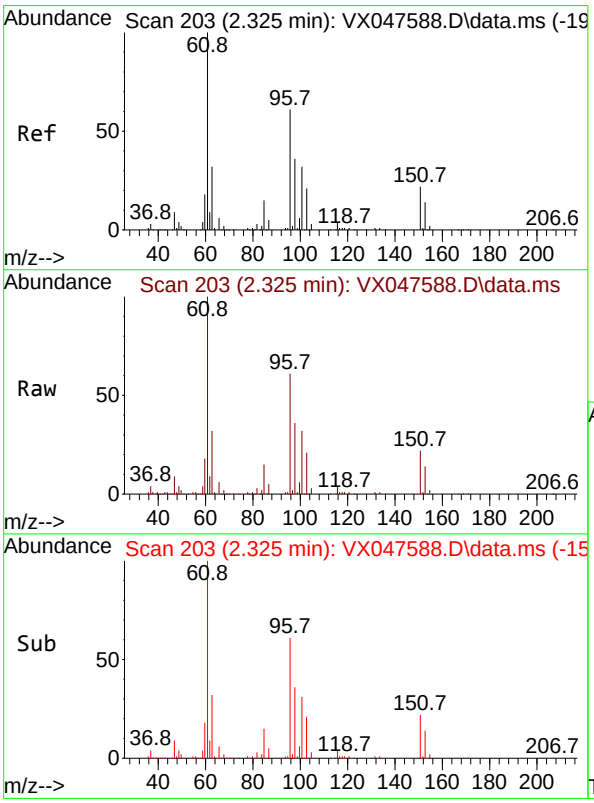
#11
Tert butyl alcohol
Concen: 251.232 ug/l
RT: 2.941 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 77232

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5

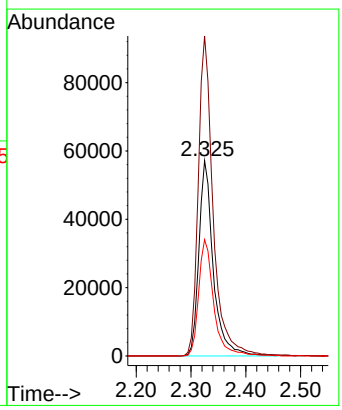


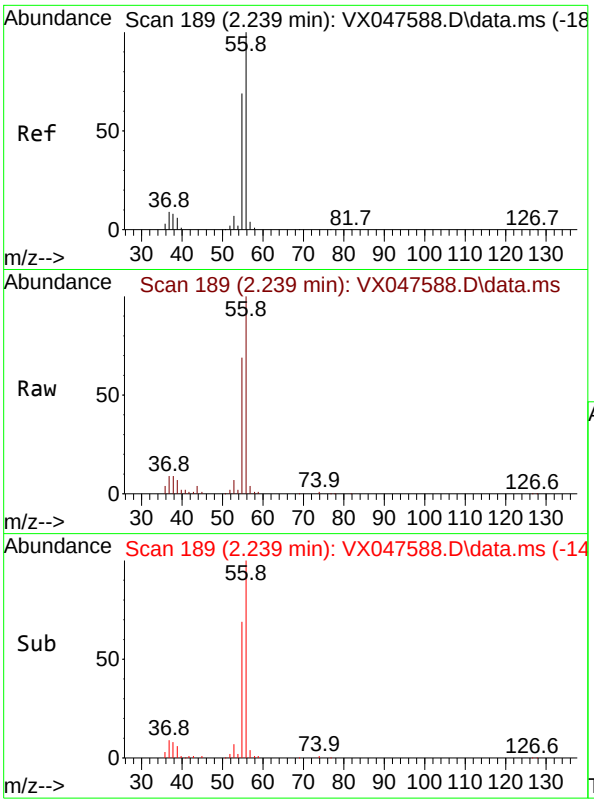


#12
1,1-Dichloroethene
Concen: 50.831 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 104724

Ion	Ratio	Lower	Upper
96	100		
61	163.8	131.0	196.6
98	59.6	47.7	71.5



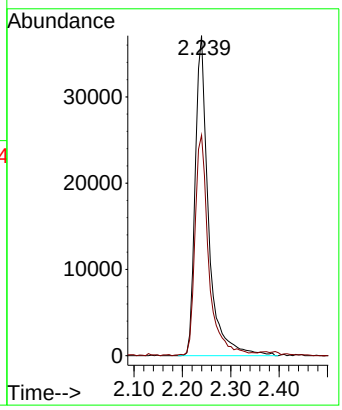


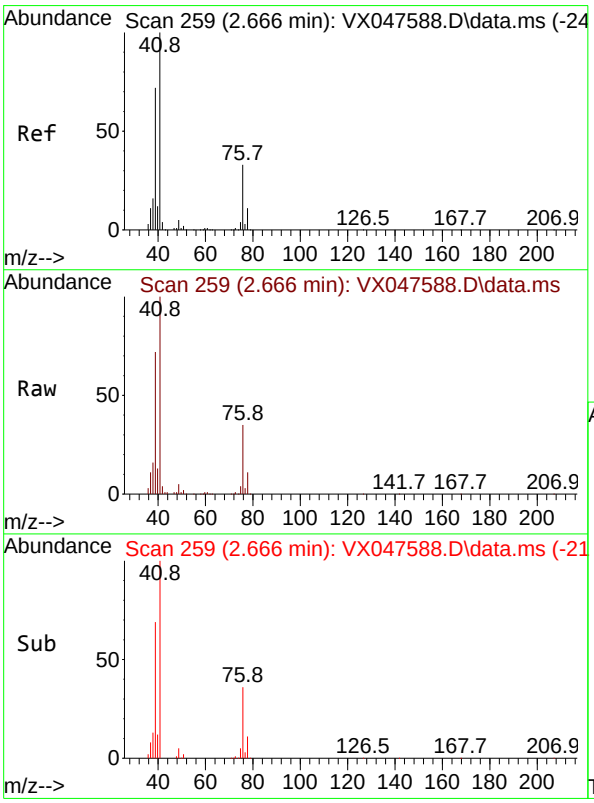
#13
Acrolein
Concen: 249.645 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 70721

Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8

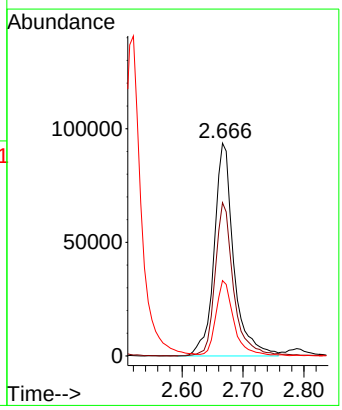


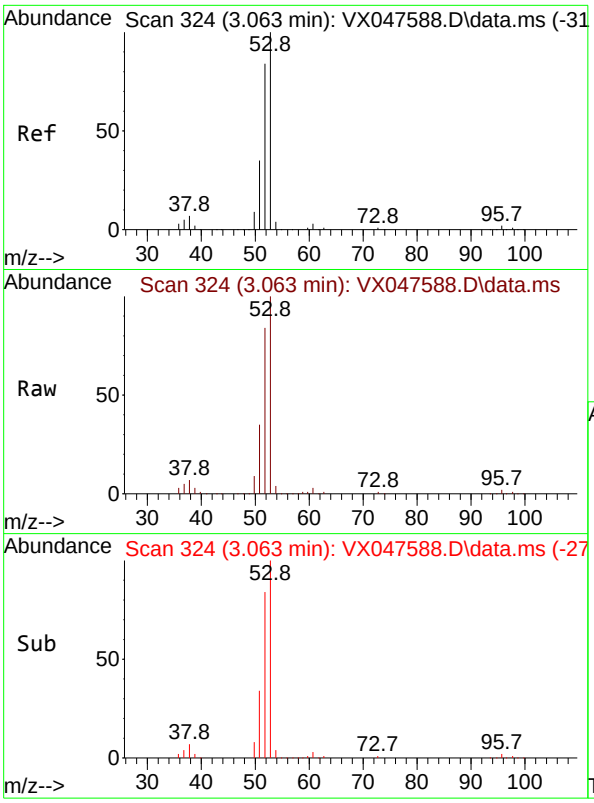


#14
Allyl chloride
Concen: 49.396 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 210001

Ion	Ratio	Lower	Upper
41	100		
39	68.4	54.7	82.1
76	32.1	25.7	38.5



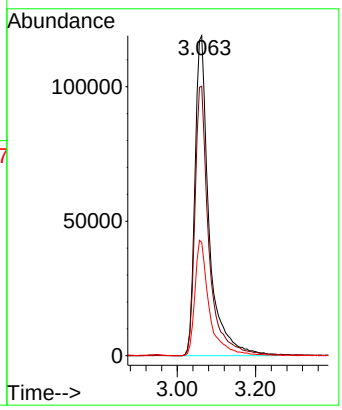


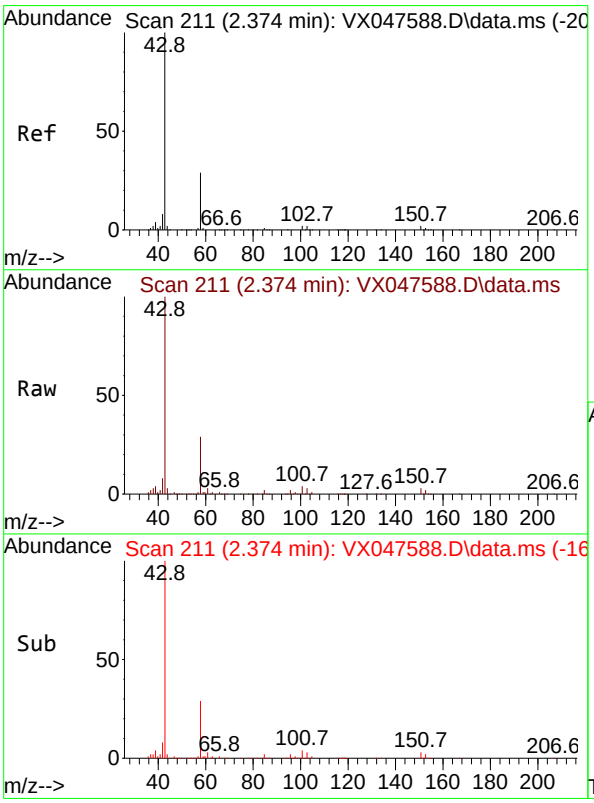
#15
Acrylonitrile
Concen: 264.027 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 300642

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.4	99.6
51	36.9	29.5	44.3

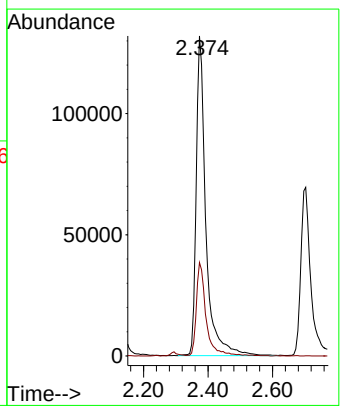


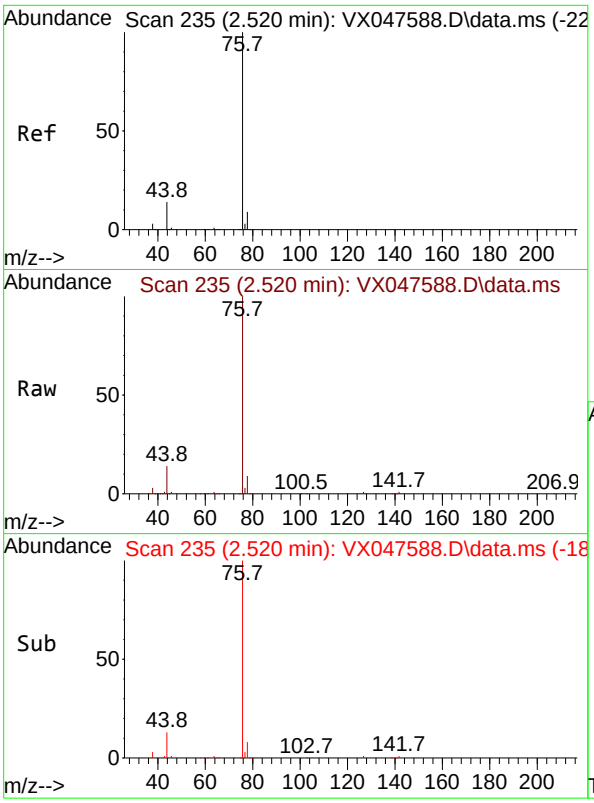


#16
Acetone
Concen: 229.193 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 275065

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.4	35.0



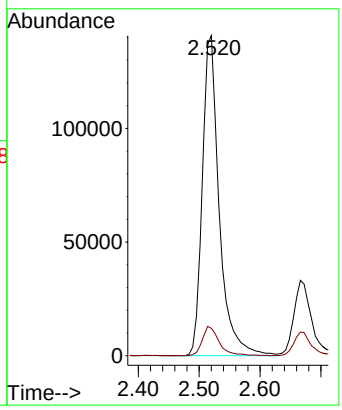


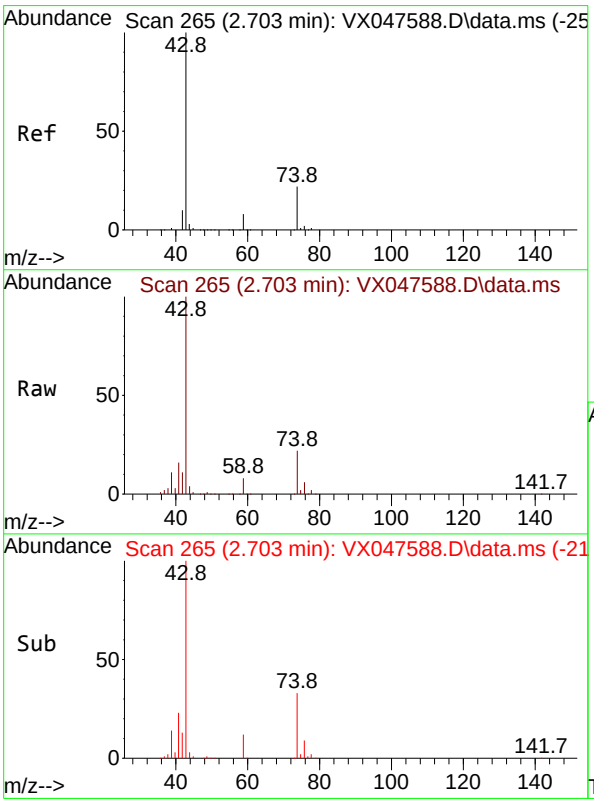
#17
Carbon Disulfide
Concen: 48.133 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 271480

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.8	10.2

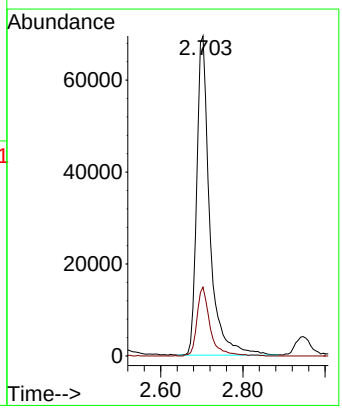


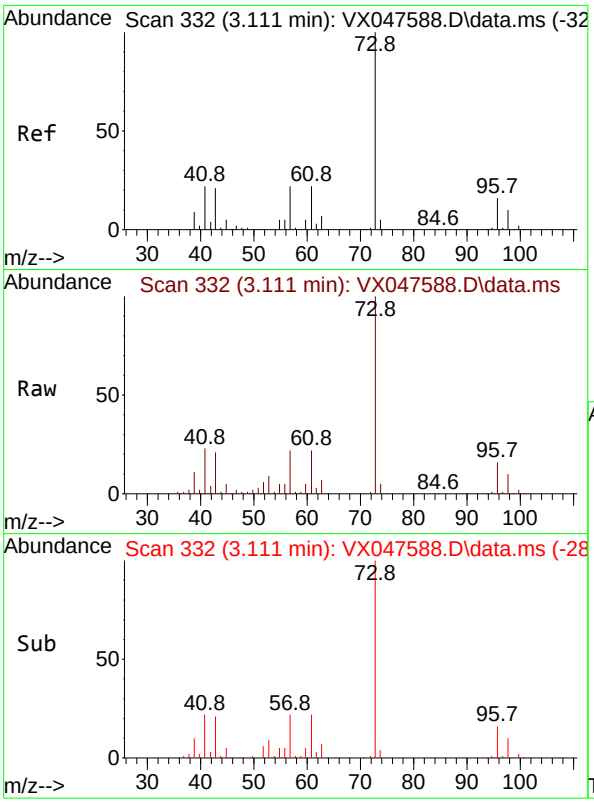


#18
Methyl Acetate
Concen: 56.897 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 151968

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2



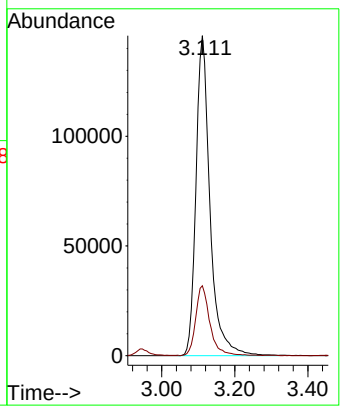


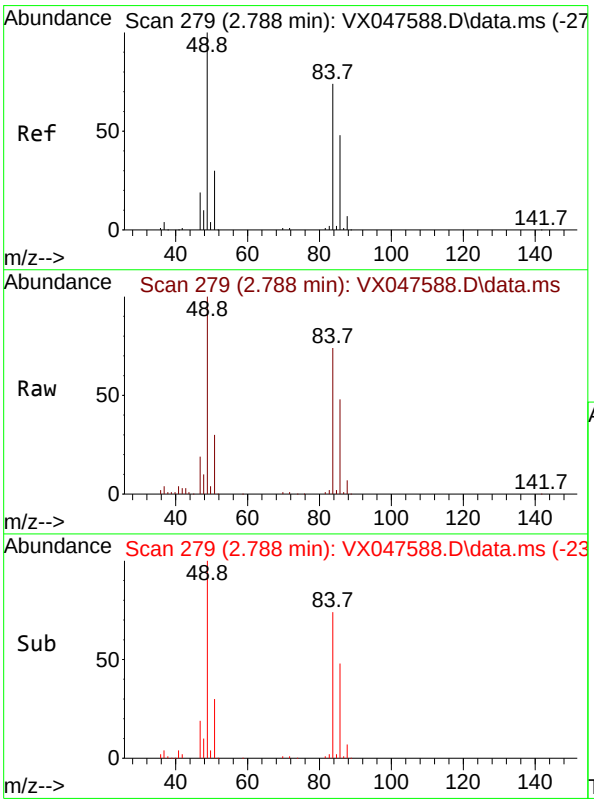
#19
Methyl tert-butyl Ether
Concen: 51.804 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 389607

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

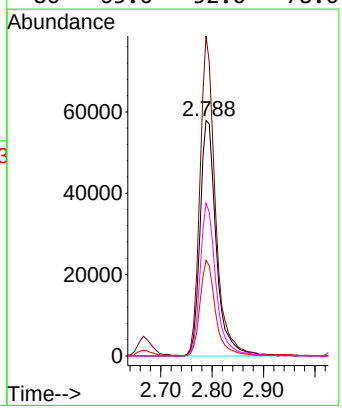


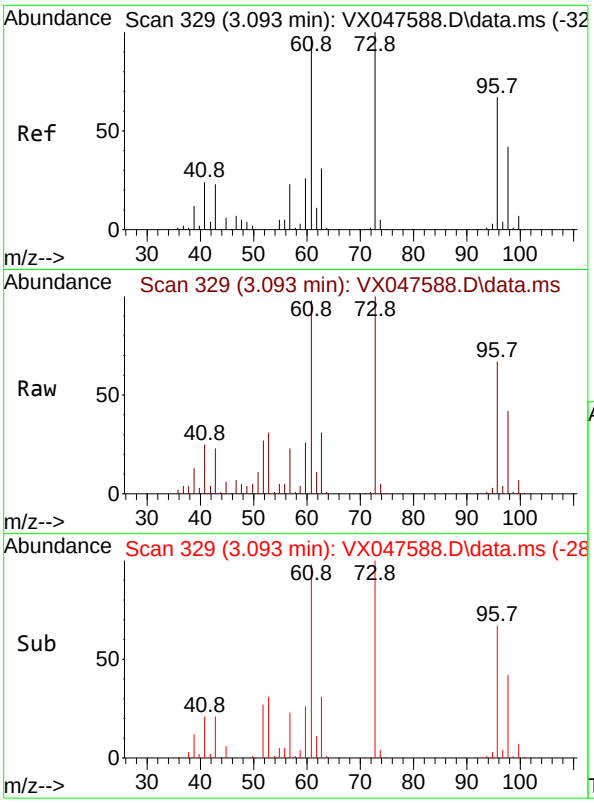


#20
Methylene Chloride
Concen: 49.798 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 84 Resp: 126506

Ion	Ratio	Lower	Upper
84	100		
49	135.7	108.6	162.8
51	40.7	32.6	48.8
86	65.0	52.0	78.0



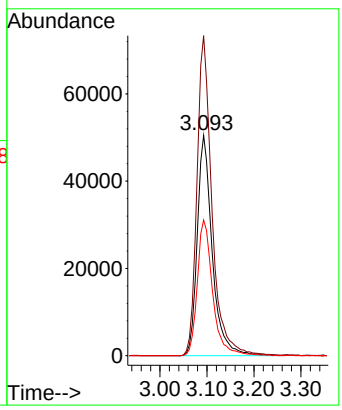


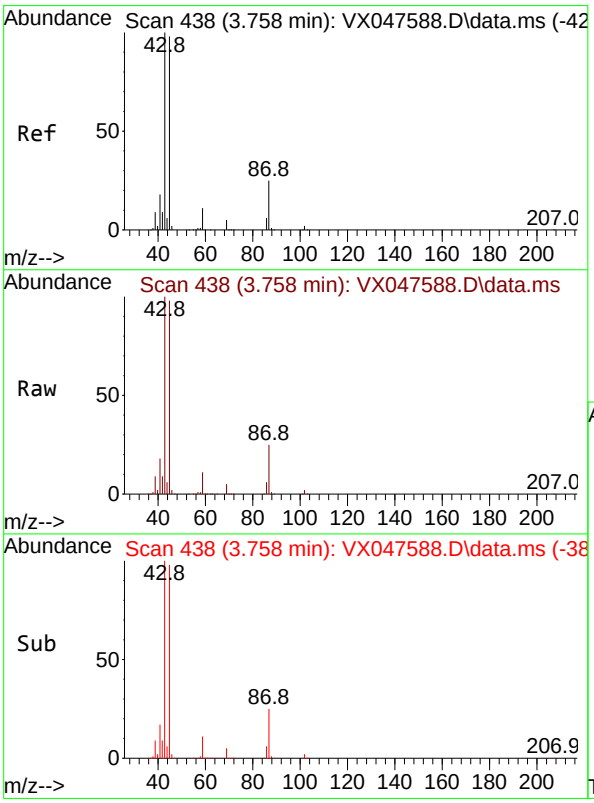
#21
trans-1,2-Dichloroethene
Concen: 50.743 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 112553

Ion	Ratio	Lower	Upper
96	100		
61	145.2	116.2	174.2
98	61.6	49.3	73.9

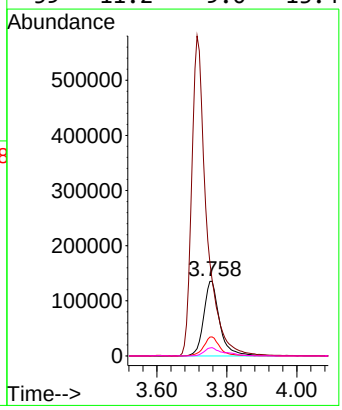


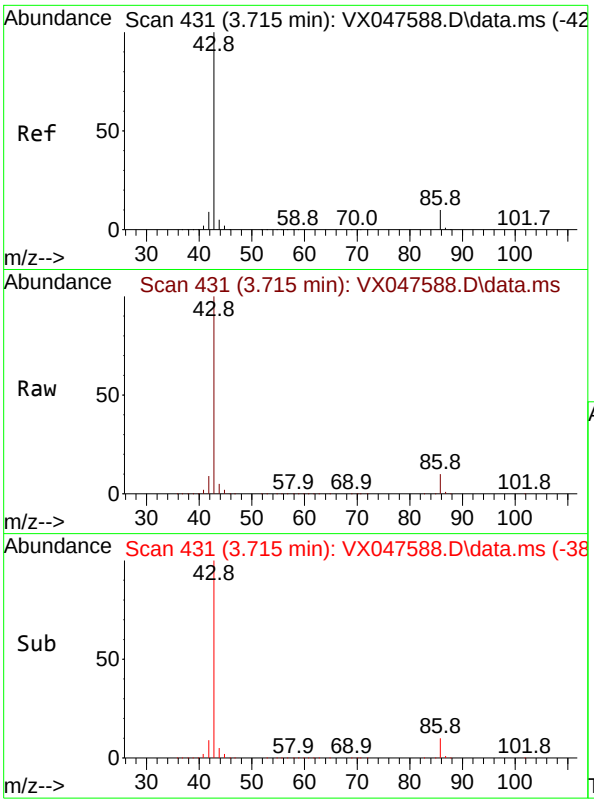


#22
Diisopropyl ether
Concen: 52.131 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 45 Resp: 429524

Ion	Ratio	Lower	Upper
45	100		
43	101.2	81.0	121.4
87	25.4	20.3	30.5
59	11.2	9.0	13.4



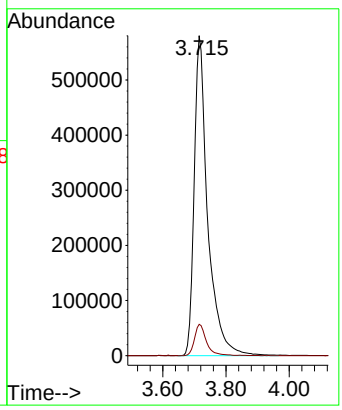


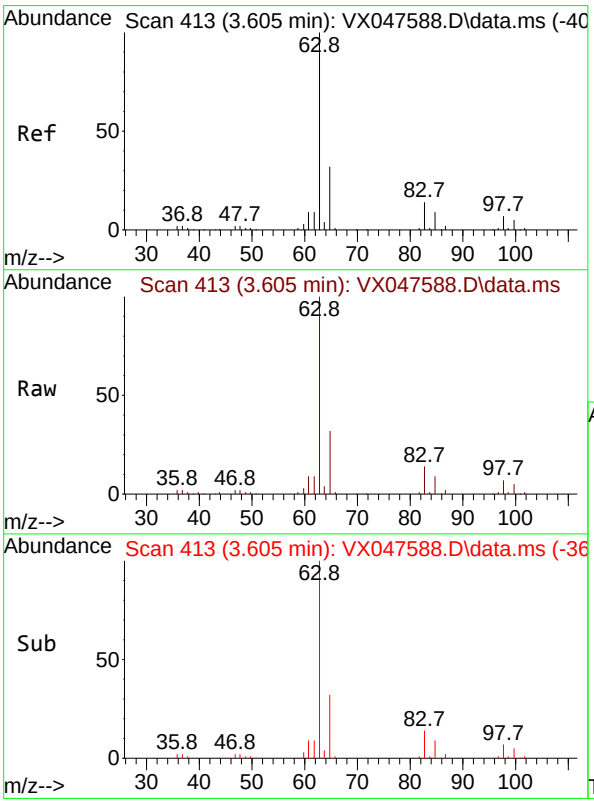
#23
Vinyl Acetate
Concen: 261.852 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1726735

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8

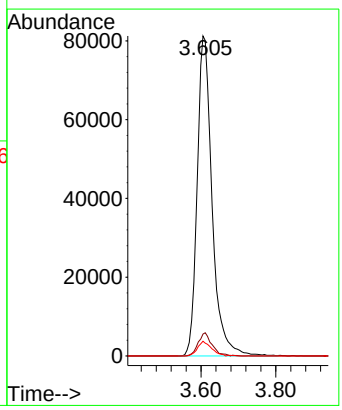


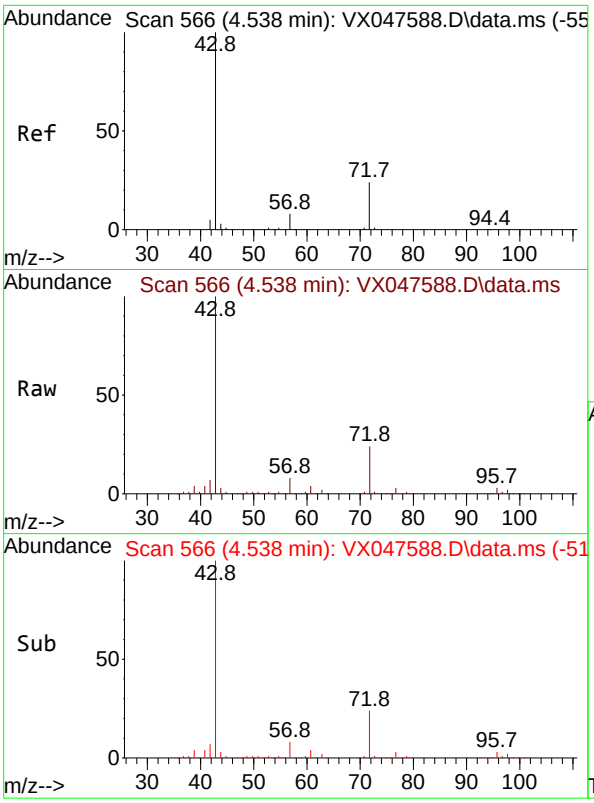


#24
1,1-Dichloroethane
Concen: 51.338 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 224824

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.8	11.2
100	4.6	2.3	6.9



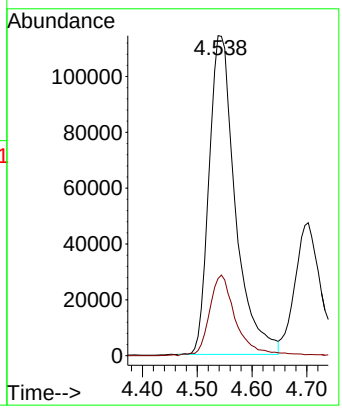


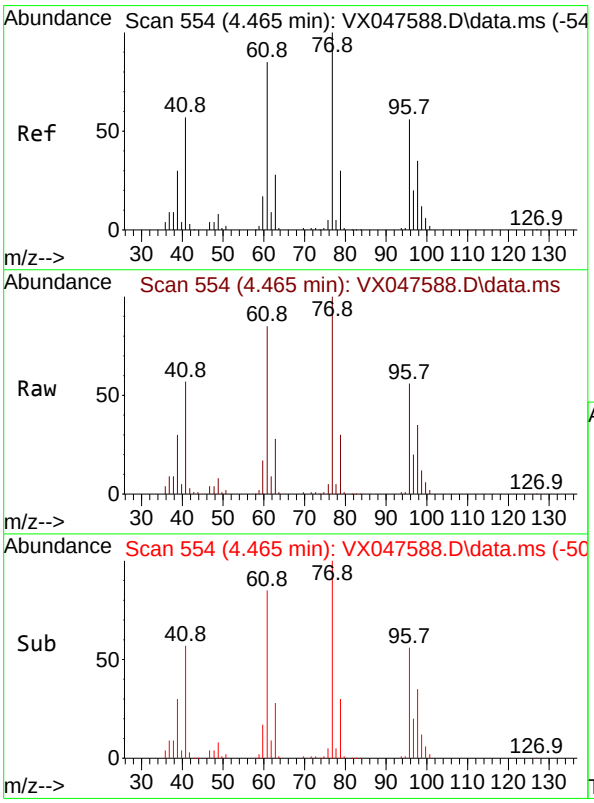
#25
2-Butanone
Concen: 254.060 ug/l
RT: 4.538 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 380335

Ion	Ratio	Lower	Upper
43	100		
72	25.1	20.1	30.1

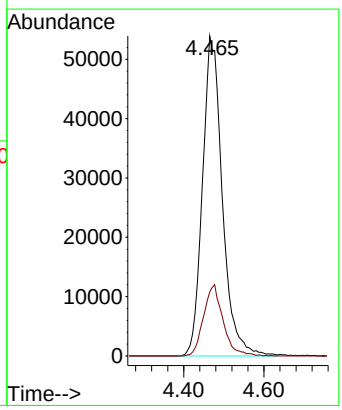


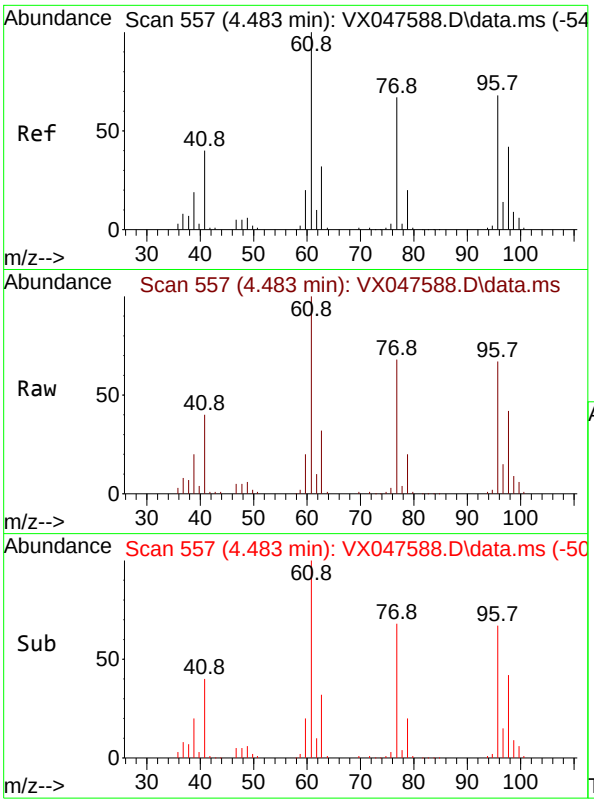


#26
2,2-Dichloropropane
Concen: 50.888 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 77 Resp: 185247

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.9	32.7



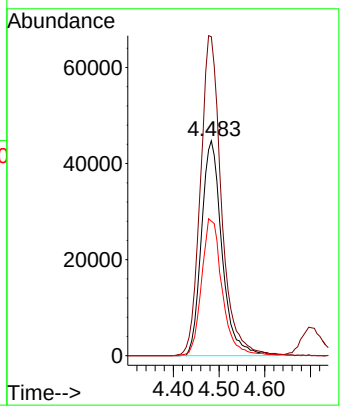


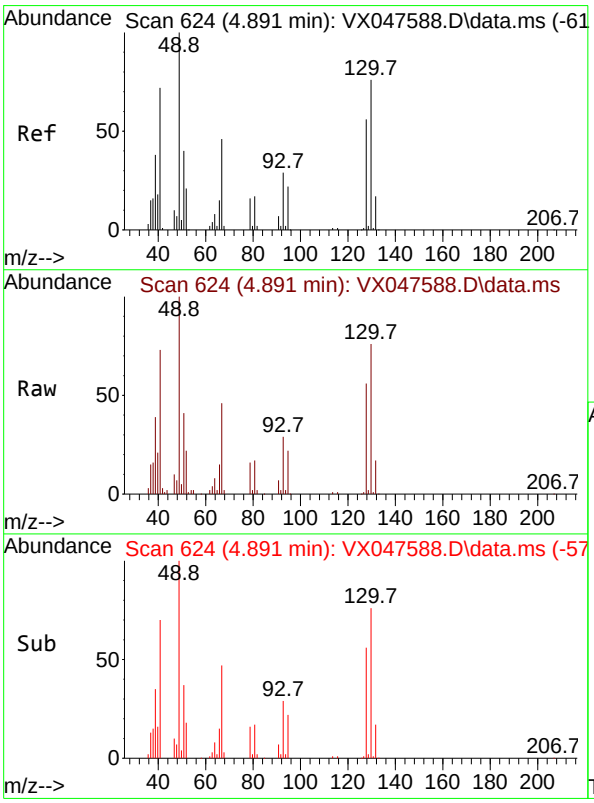
#27
cis-1,2-Dichloroethene
Concen: 51.576 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 140105

Ion	Ratio	Lower	Upper
96	100		
61	151.6	0.0	303.2
98	63.9	0.0	127.8

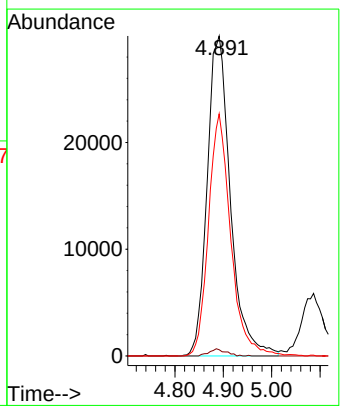


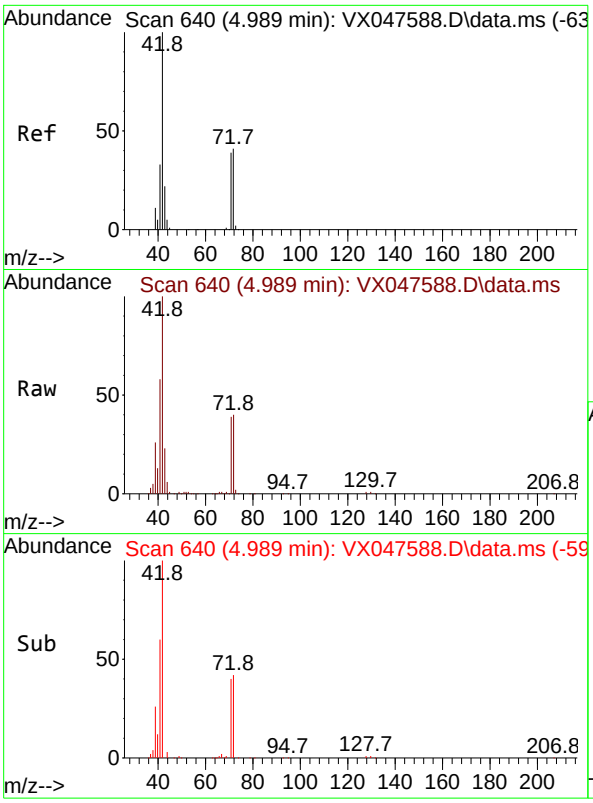


#28
Bromochloromethane
Concen: 52.301 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 49 Resp: 99991

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	72.3	57.8	86.8



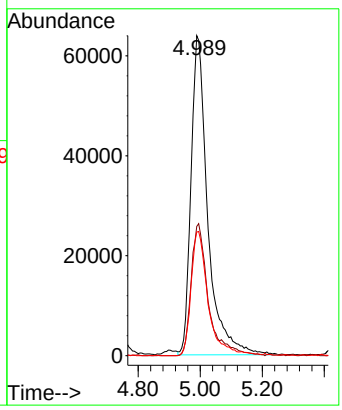


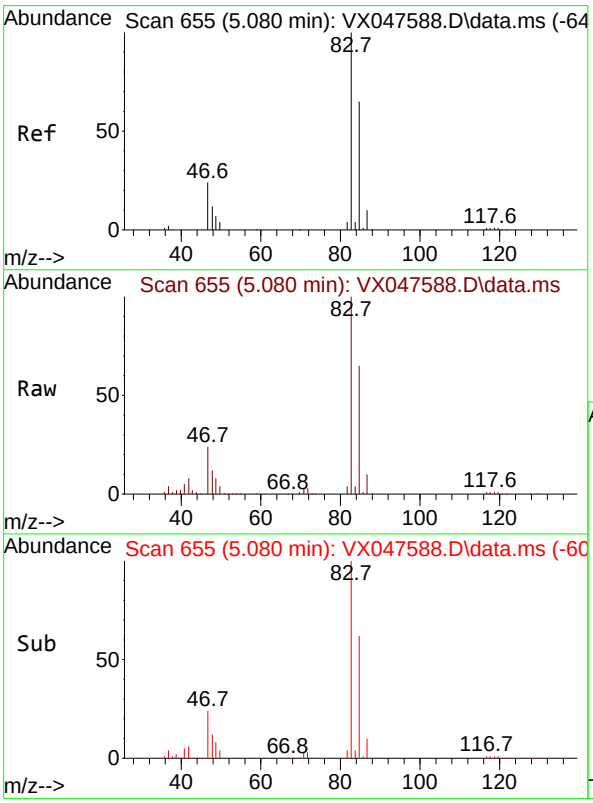
#29
Tetrahydrofuran
Concen: 265.026 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 238677

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	39.9	31.9	47.9

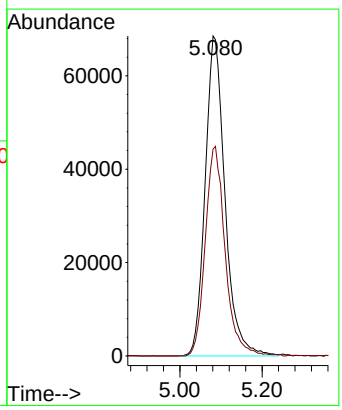


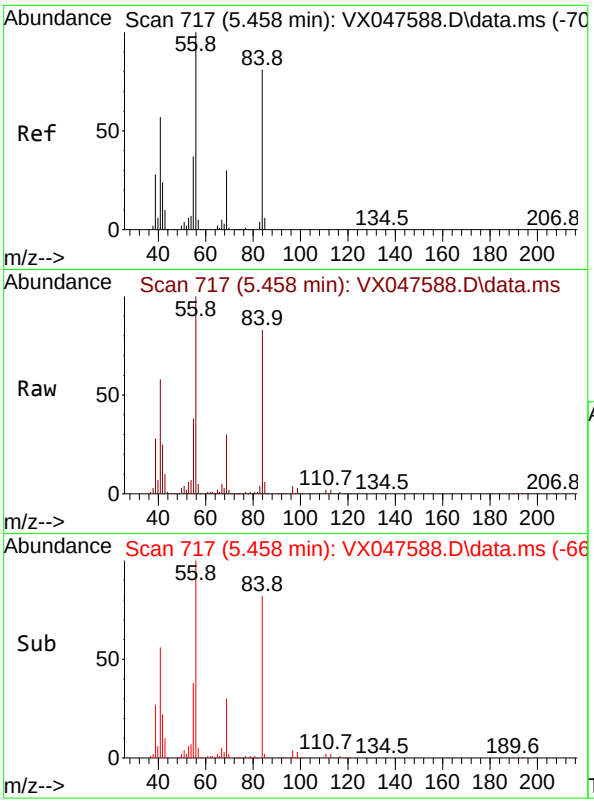


#30
Chloroform
Concen: 51.844 ug/l
RT: 5.080 min Scan# 655
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 229430

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6



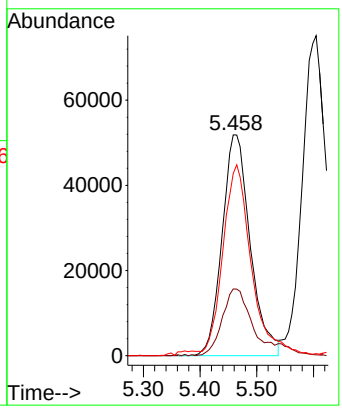


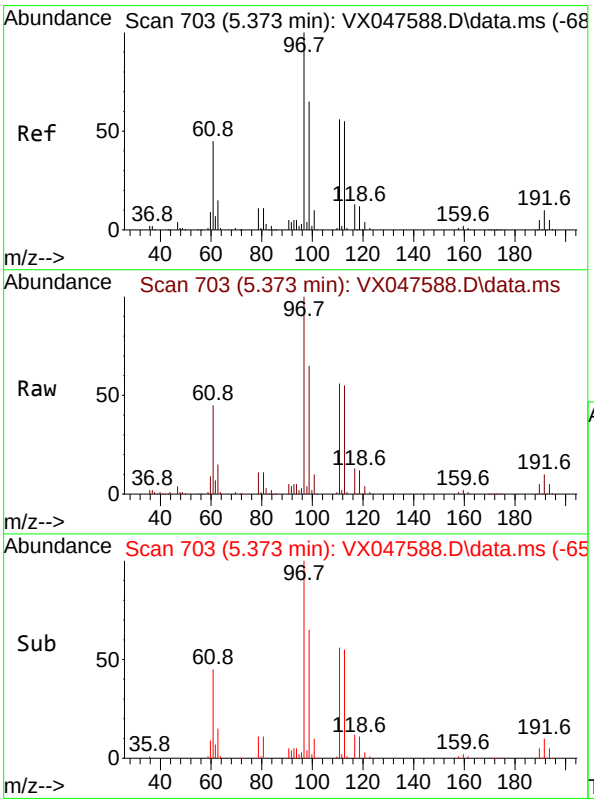
#31
Cyclohexane
Concen: 48.952 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 178546

Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.8	35.8
84	80.8	64.6	97.0

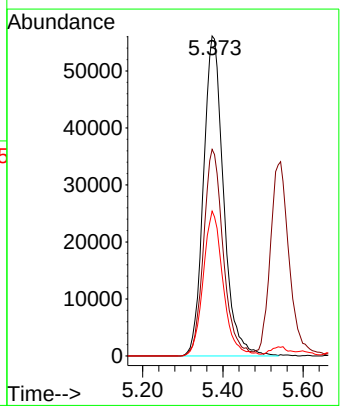


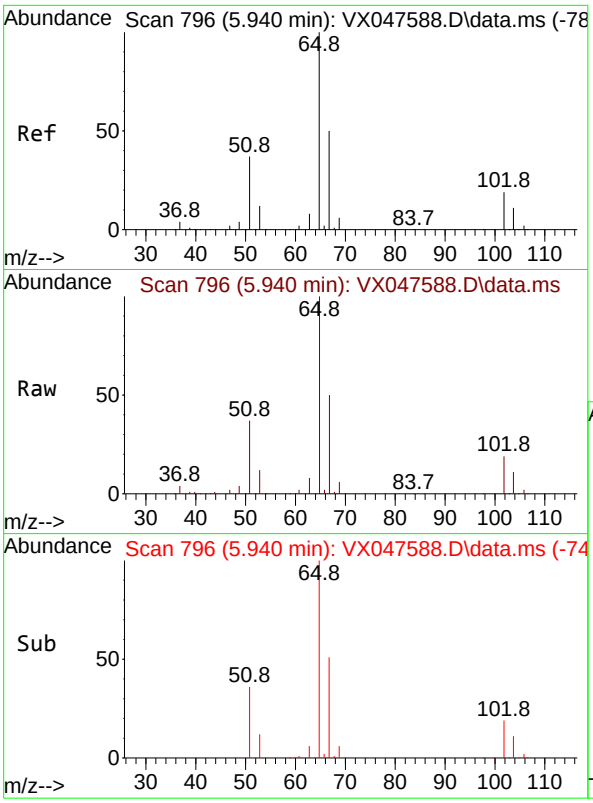


#32
1,1,1-Trichloroethane
Concen: 52.058 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 97 Resp: 195407

Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.6	76.0
61	44.8	35.8	53.8



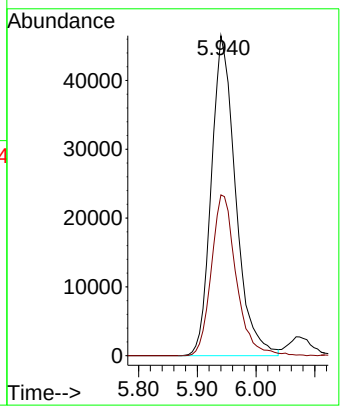


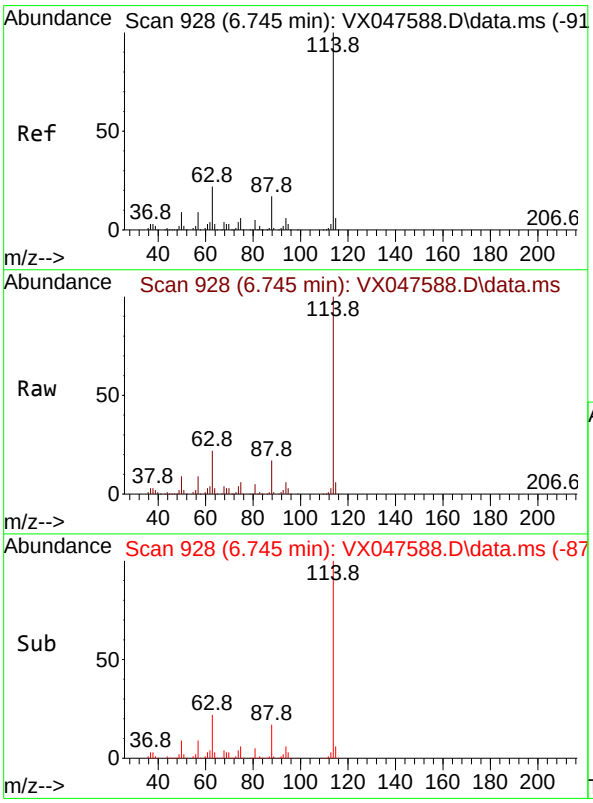
#33
1,2-Dichloroethane-d4
Concen: 48.404 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 133606

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.0

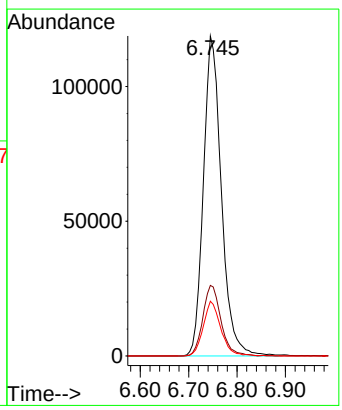


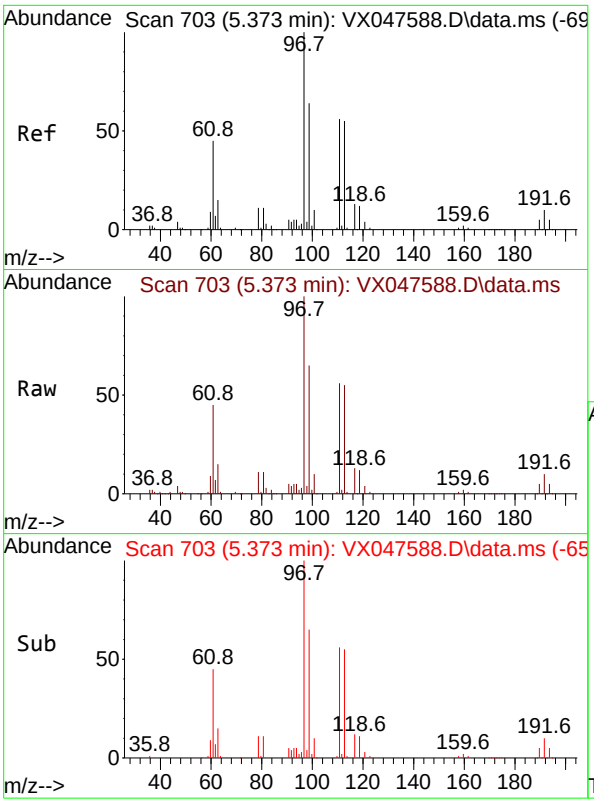


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:114 Resp: 307383

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	17.1	0.0	34.2



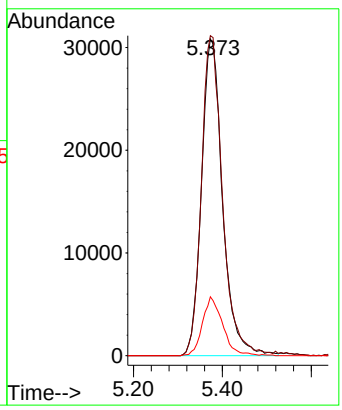


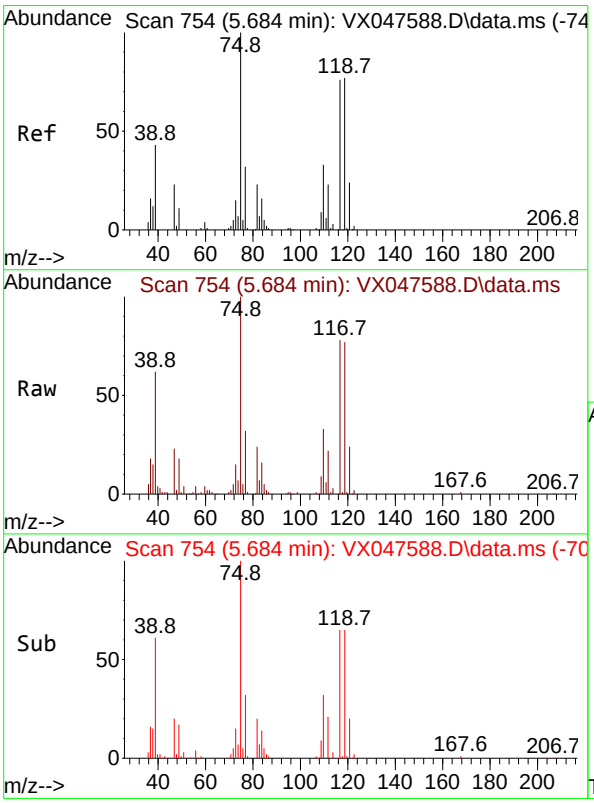
#35
Dibromofluoromethane
Concen: 49.298 ug/l
RT: 5.373 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 101627

Ion	Ratio	Lower	Upper
113	100		
111	101.1	80.9	121.3
192	17.8	14.2	21.4

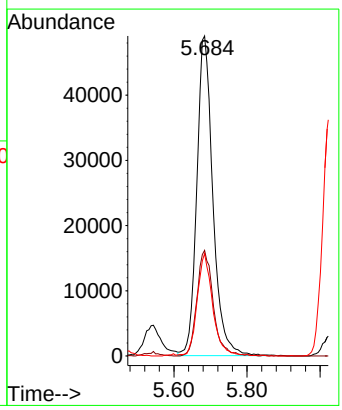


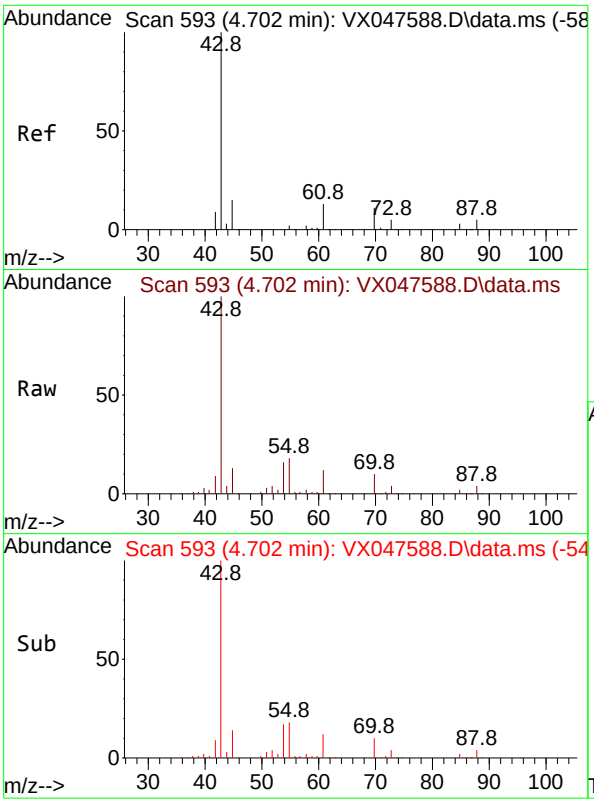


#36
1,1-Dichloropropene
Concen: 49.729 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 149800

Ion	Ratio	Lower	Upper
75	100		
110	33.4	16.7	50.1
77	30.4	24.3	36.5



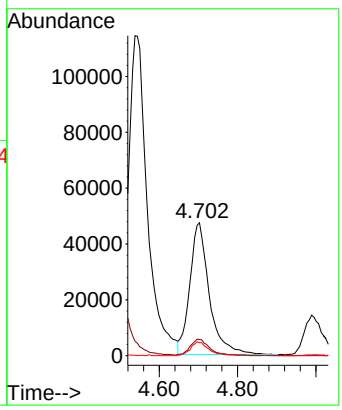


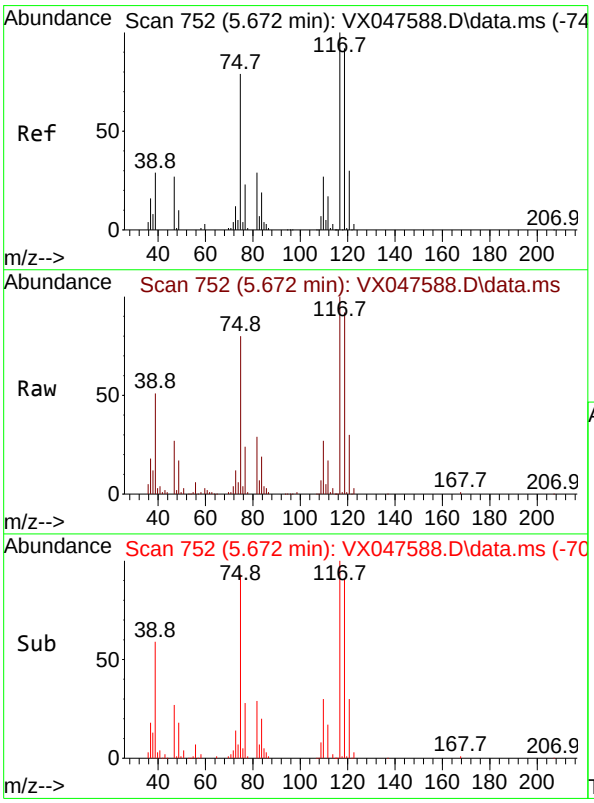
#37
Ethyl Acetate
Concen: 50.687 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 163482

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.9	7.9	11.9

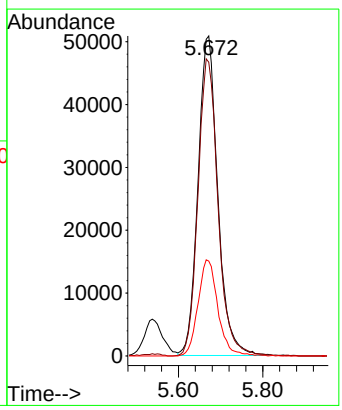


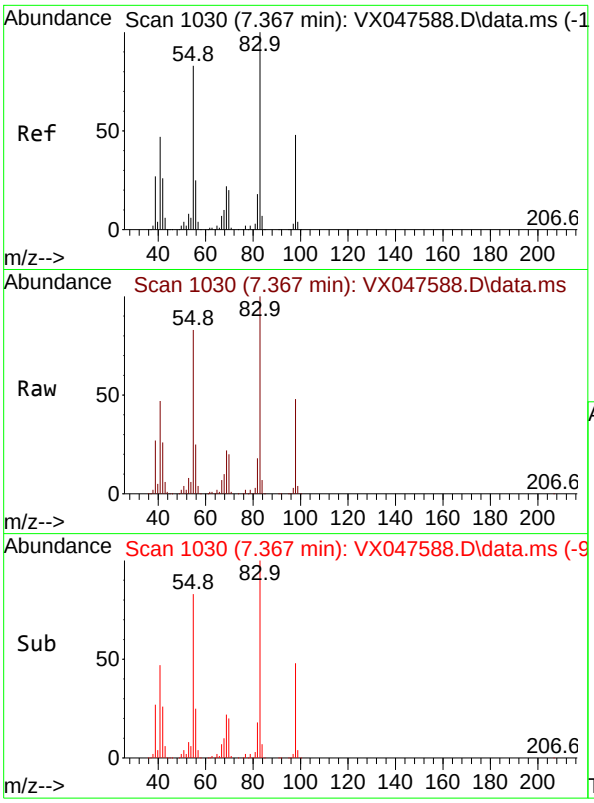


#38
Carbon Tetrachloride
Concen: 50.637 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 165730

Ion	Ratio	Lower	Upper
117	100		
119	91.8	73.4	110.2
121	29.7	23.8	35.6



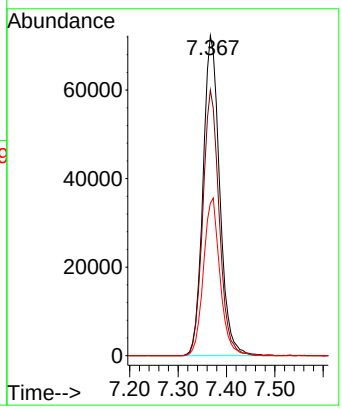


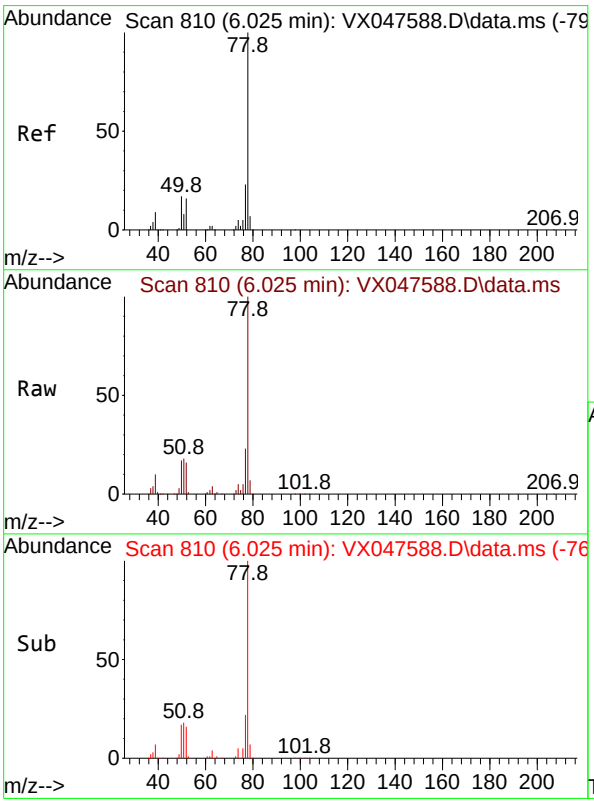
#39
Methylcyclohexane
Concen: 50.773 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 173610

Ion	Ratio	Lower	Upper
83	100		
55	83.0	66.4	99.6
98	47.6	38.1	57.1

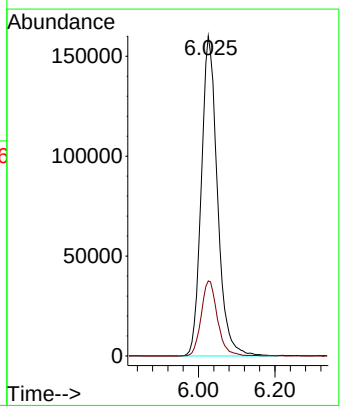


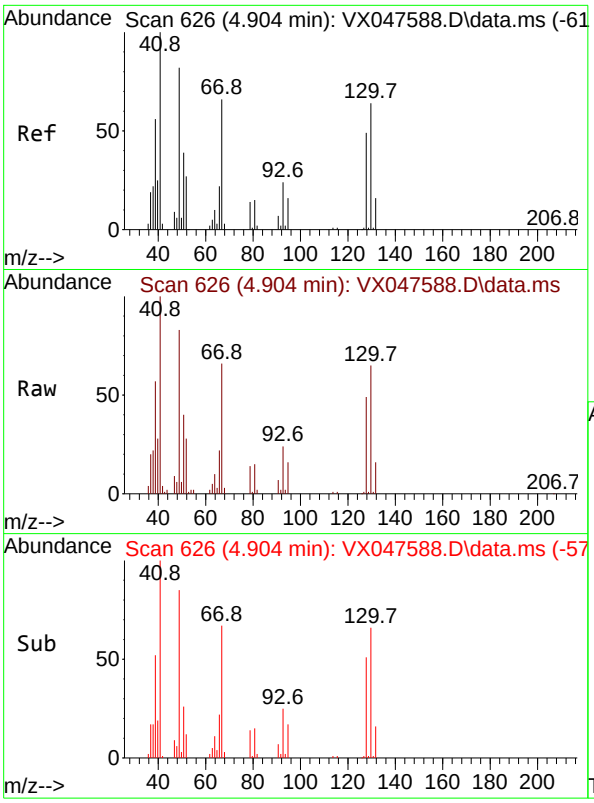


#40
Benzene
Concen: 51.167 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 78 Resp: 468136

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



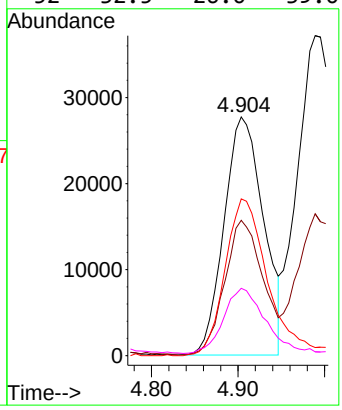


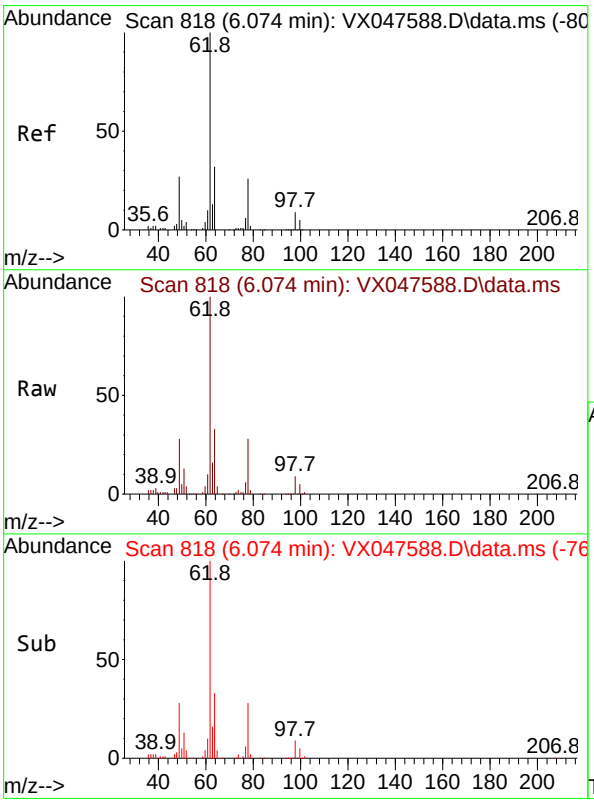
#41
Methacrylonitrile
Concen: 52.707 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 87761

Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.3	64.9
67	73.2	58.6	87.8
52	32.5	26.0	39.0

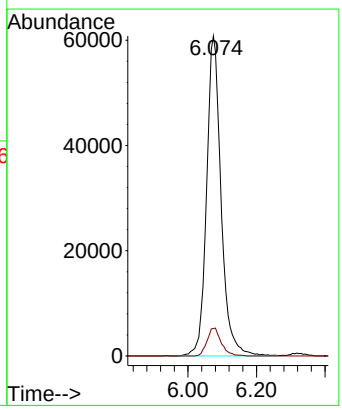


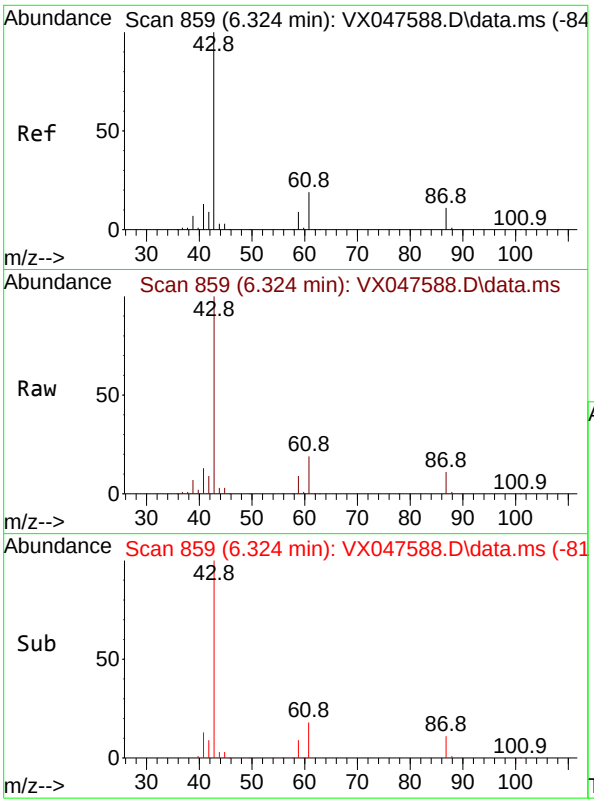


#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 179037

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0



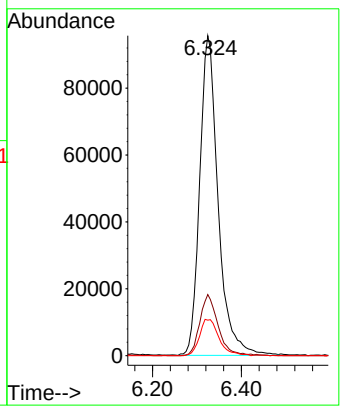


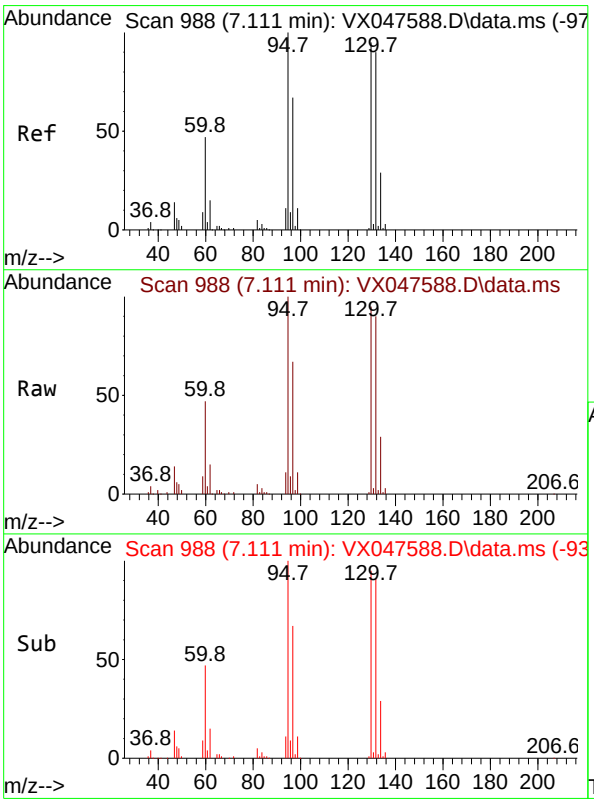
#43
Isopropyl Acetate
Concen: 52.096 ug/l
RT: 6.324 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 275572

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.0	9.6	14.4

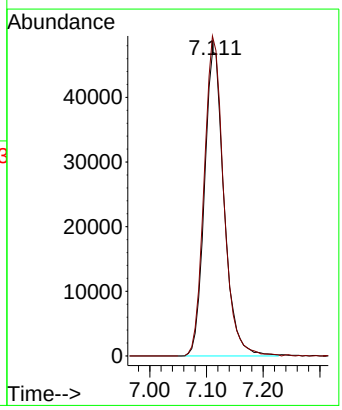


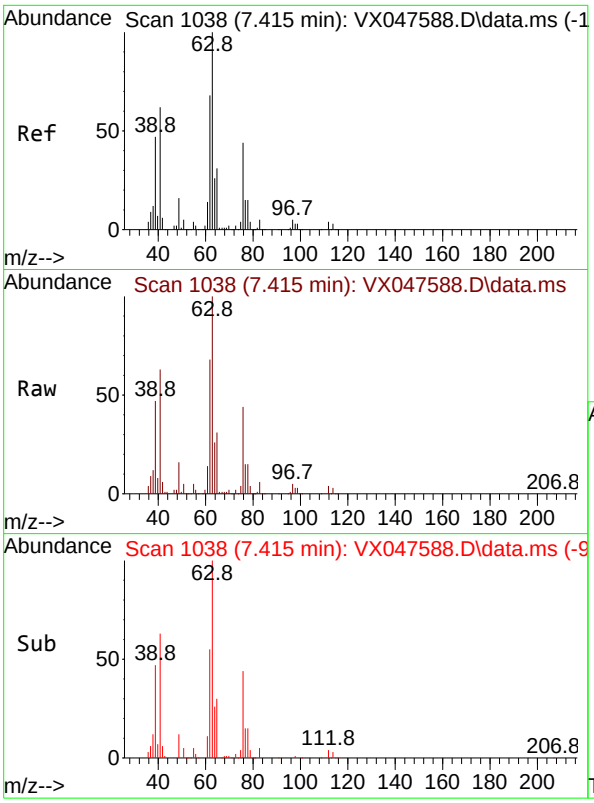


#44
Trichloroethene
Concen: 51.463 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:130 Resp: 113832

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	210.8



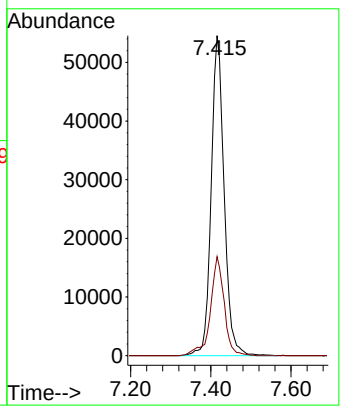


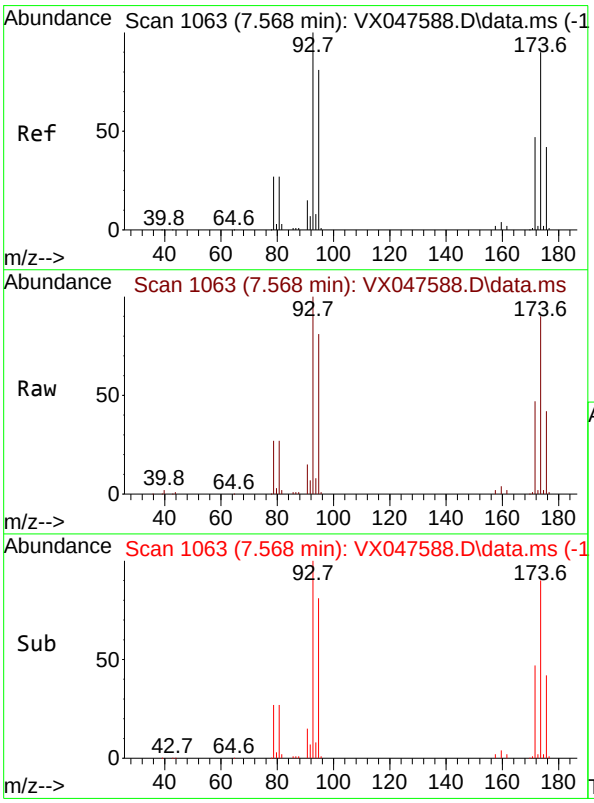
#45
1,2-Dichloropropane
Concen: 52.122 ug/l
RT: 7.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 122109

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.7	37.1

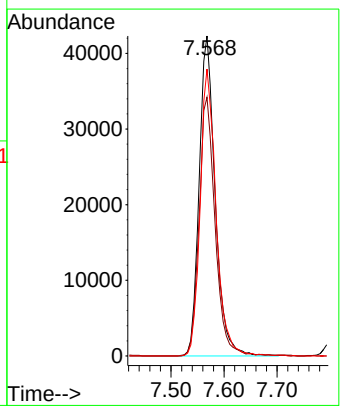


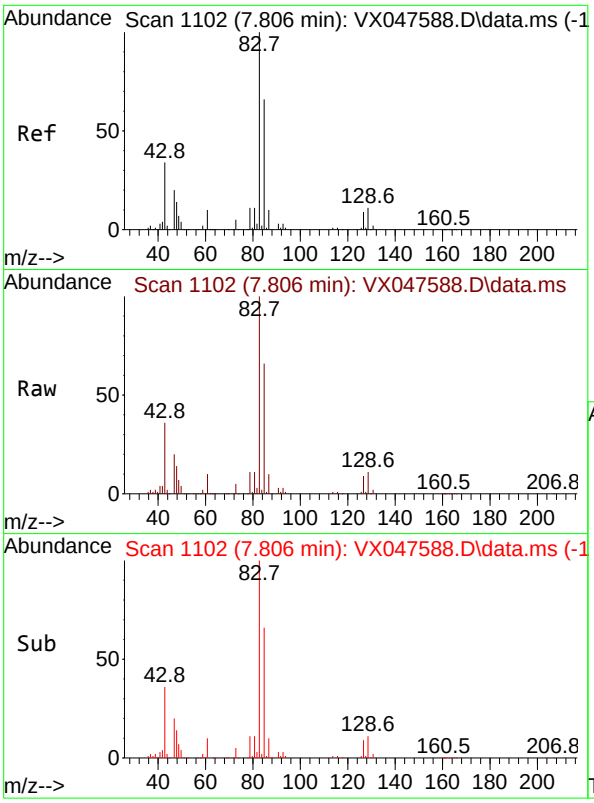


#46
Dibromomethane
Concen: 51.914 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 93 Resp: 88505

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.0	97.6
174	89.5	71.6	107.4



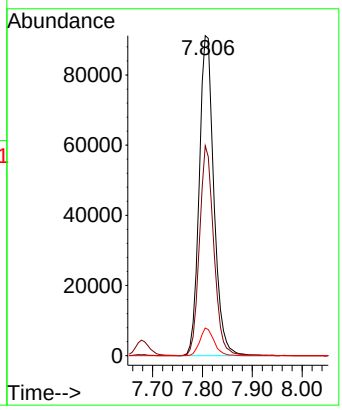


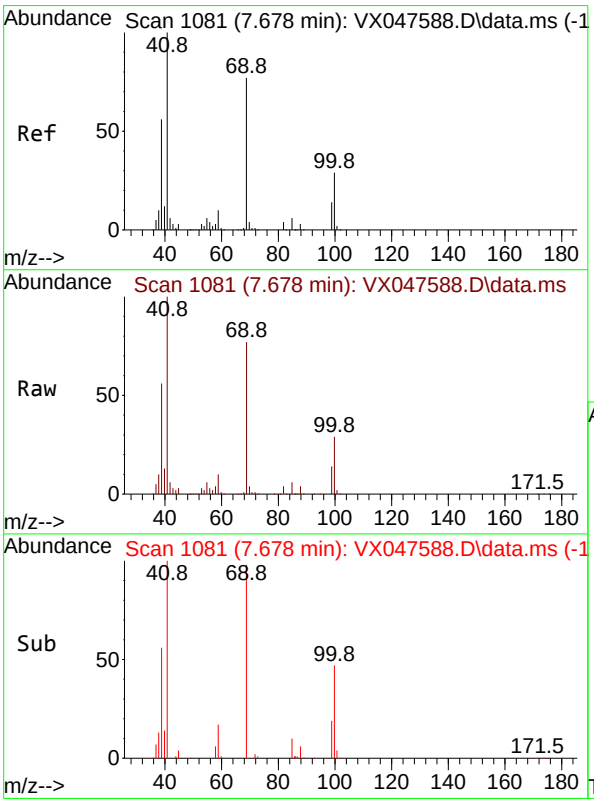
#47
Bromodichloromethane
Concen: 53.025 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 186540

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7
127	8.6	6.9	10.3

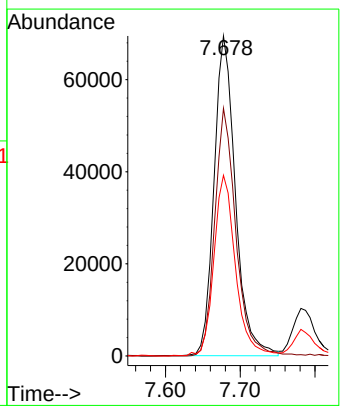


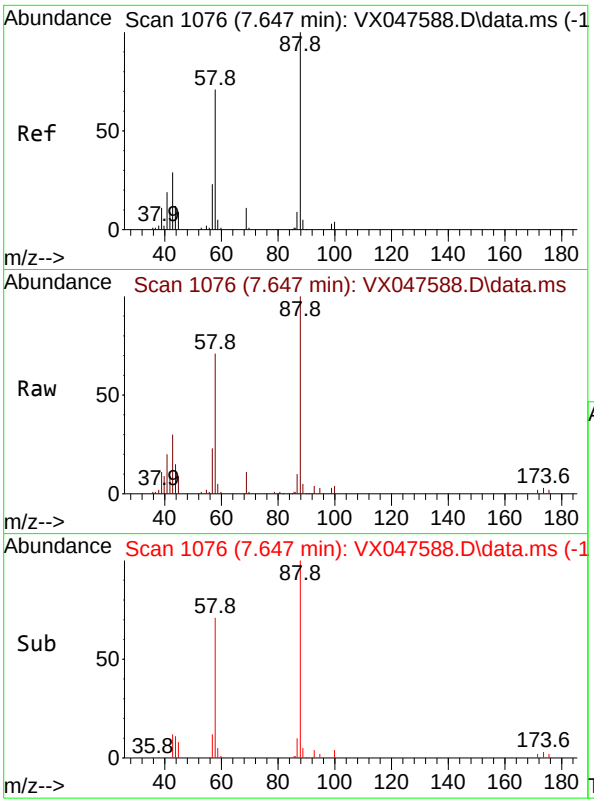


#48
Methyl methacrylate
Concen: 52.438 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 138167

Ion	Ratio	Lower	Upper
41	100		
69	76.8	61.4	92.2
39	57.2	45.8	68.6



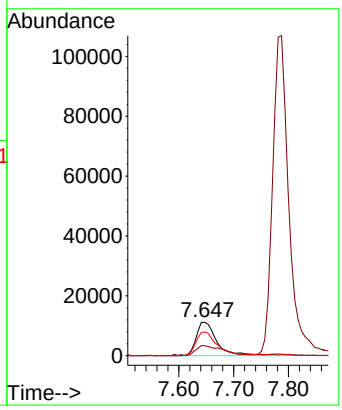


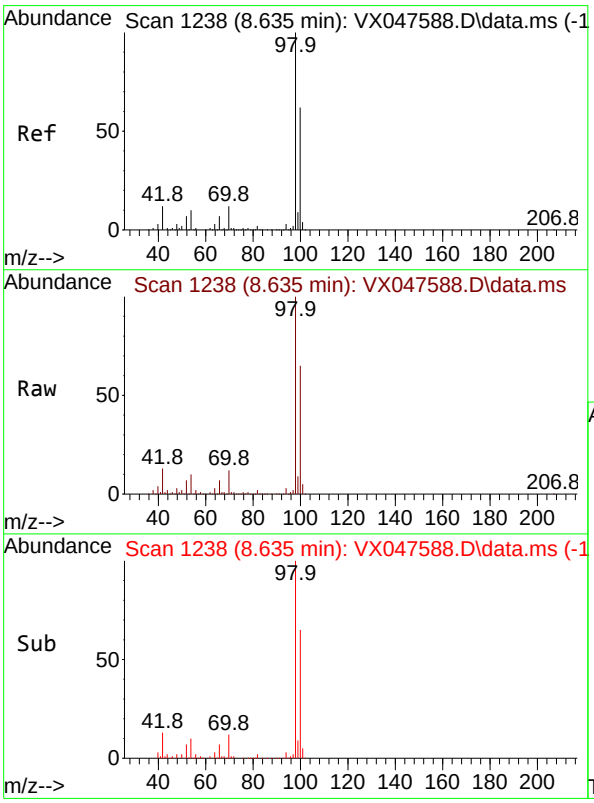
#49
1,4-Dioxane
Concen: 1107.698 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 29496

Ion	Ratio	Lower	Upper
88	100		
43	37.7	30.2	45.2
58	74.4	59.5	89.3

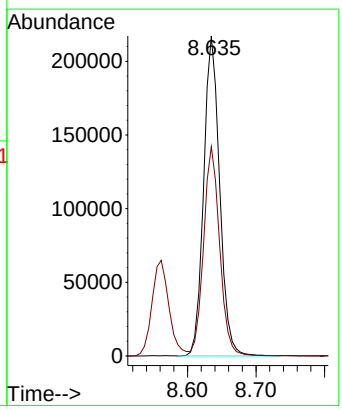


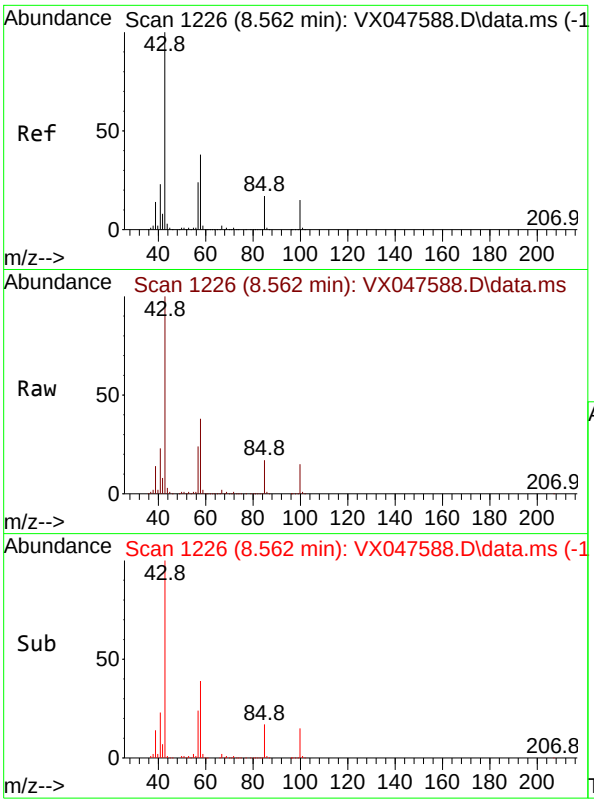


#50
Toluene-d8
Concen: 49.428 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 98 Resp: 352578

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4



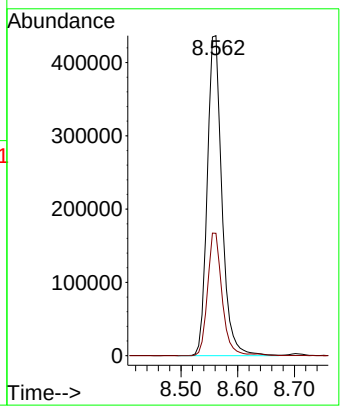


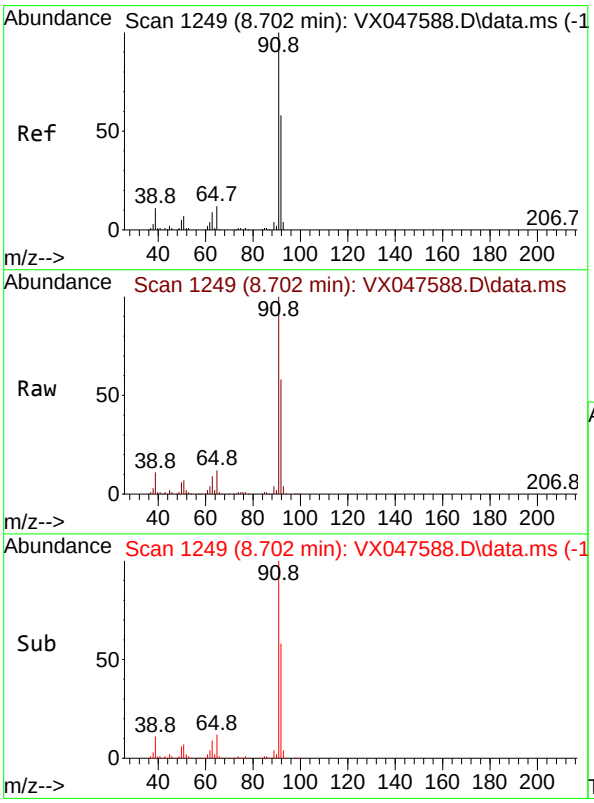
#51
4-Methyl-2-Pentanone
Concen: 267.650 ug/l
RT: 8.562 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 784978

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

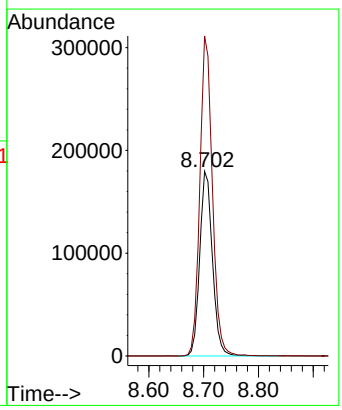


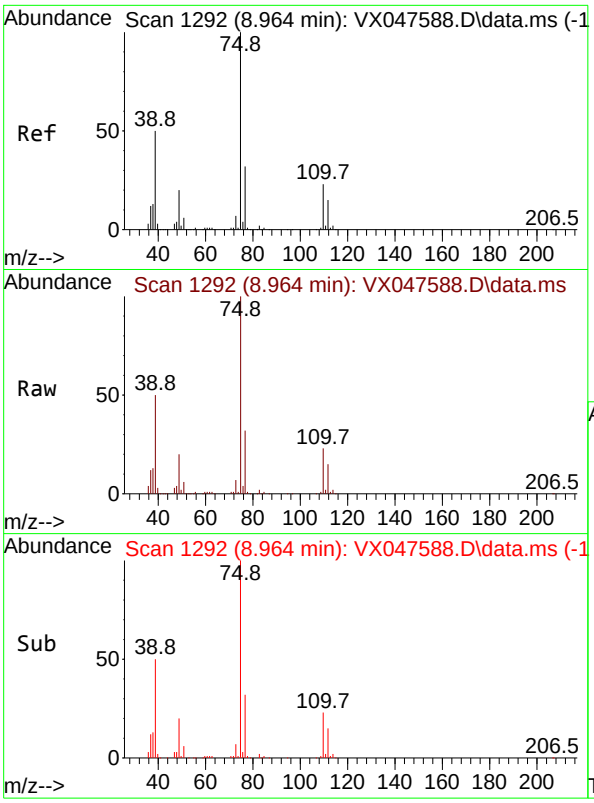


#52
Toluene
Concen: 51.244 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 92 Resp: 288853

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.1	205.7



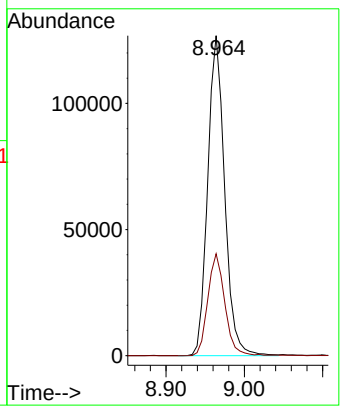


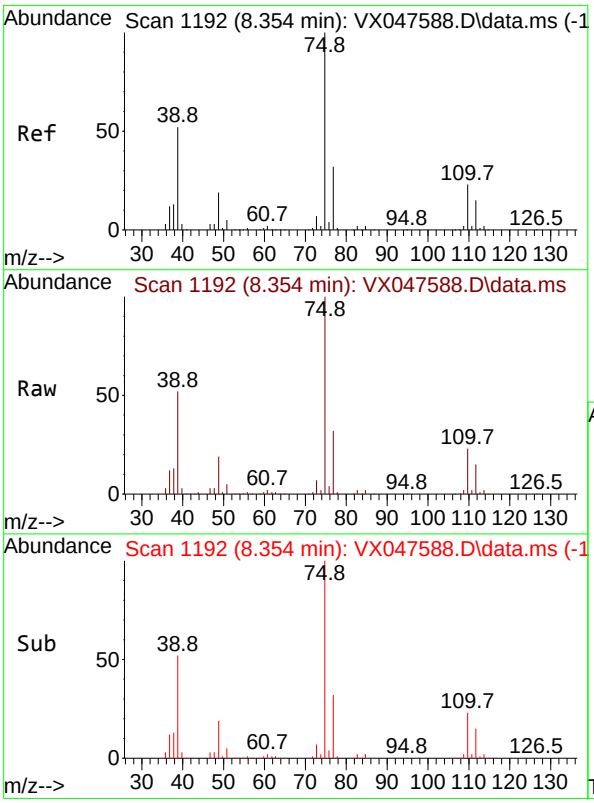
#53
t-1,3-Dichloropropene
Concen: 53.027 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 190282

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2

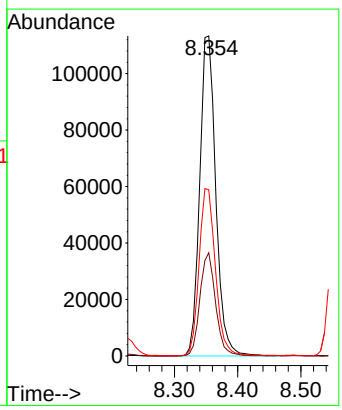


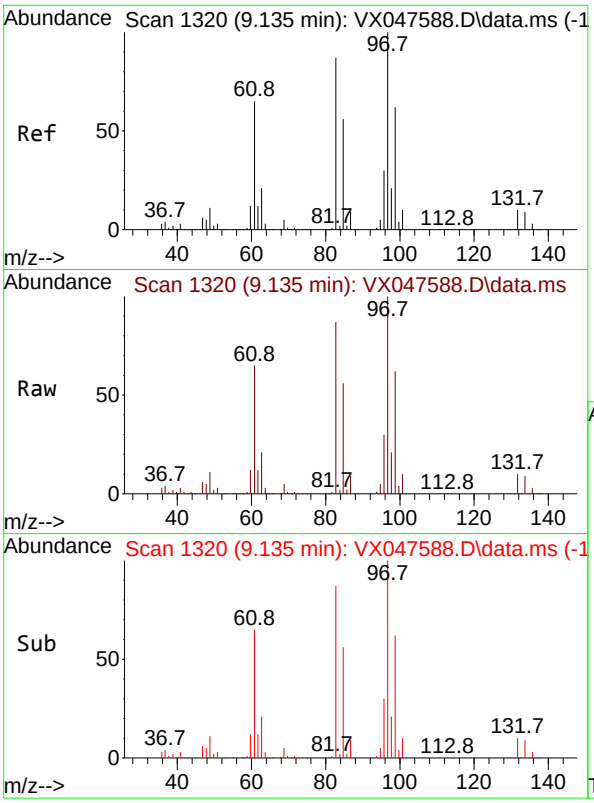


#54
cis-1,3-Dichloropropene
Concen: 52.369 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 200859

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.8	38.6
39	51.8	41.4	62.2



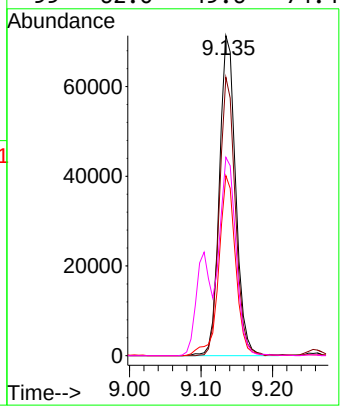


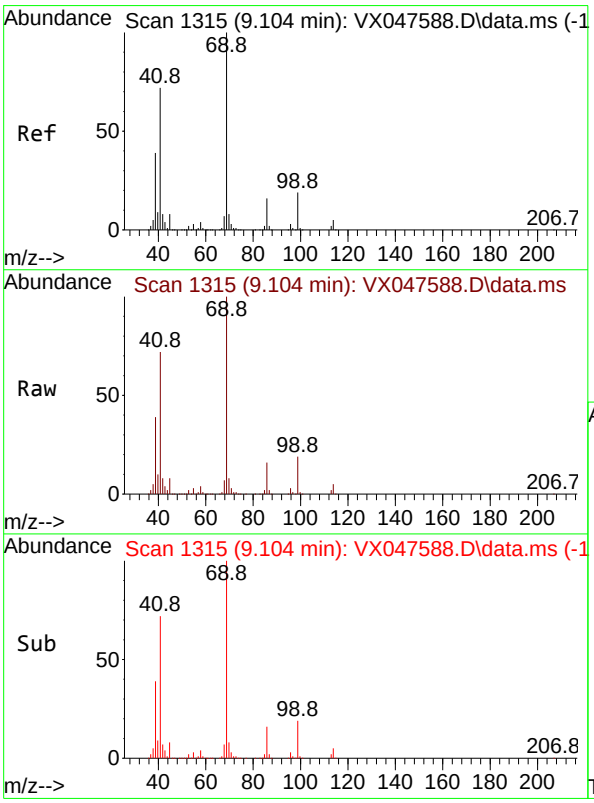
#55
1,1,2-Trichloroethane
Concen: 51.915 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 112837

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.6	104.4
85	56.3	45.0	67.6
99	62.0	49.6	74.4

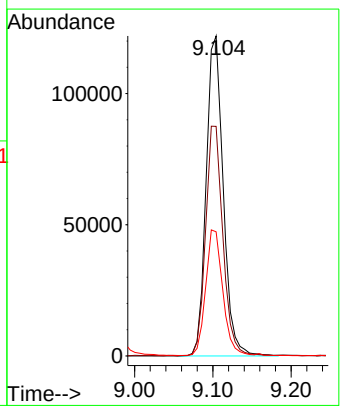


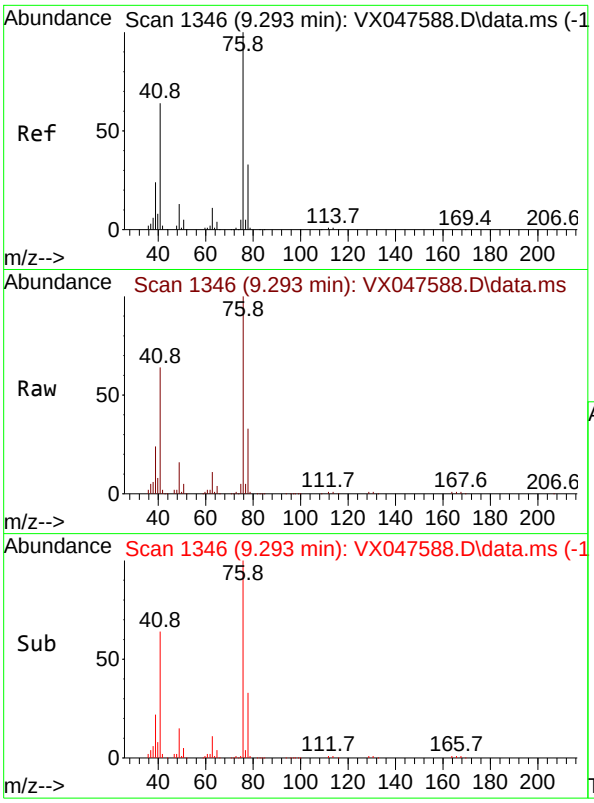


#56
Ethyl methacrylate
Concen: 53.930 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 69 Resp: 184087

Ion	Ratio	Lower	Upper
69	100		
41	73.2	58.6	87.8
39	39.4	31.5	47.3



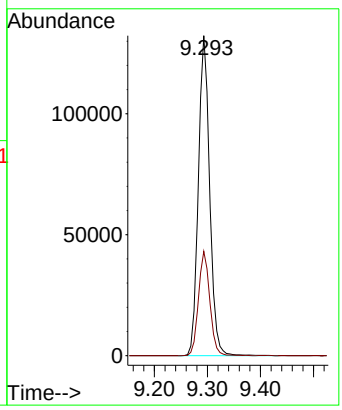


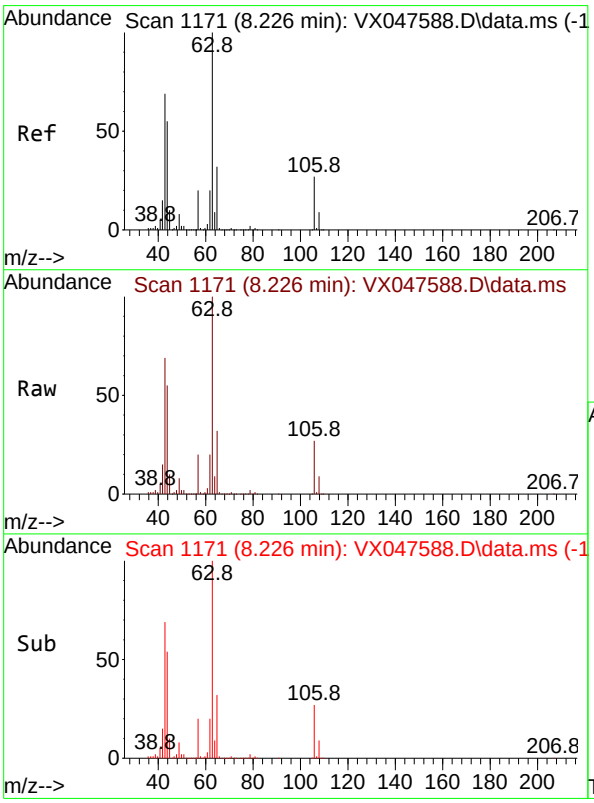
#57
1,3-Dichloropropane
Concen: 52.492 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 195989

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4

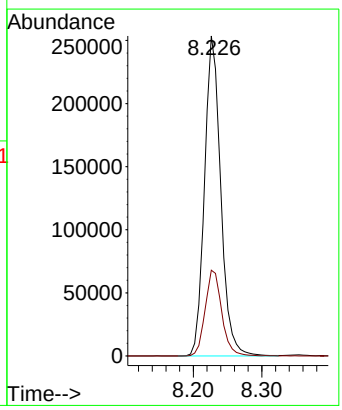


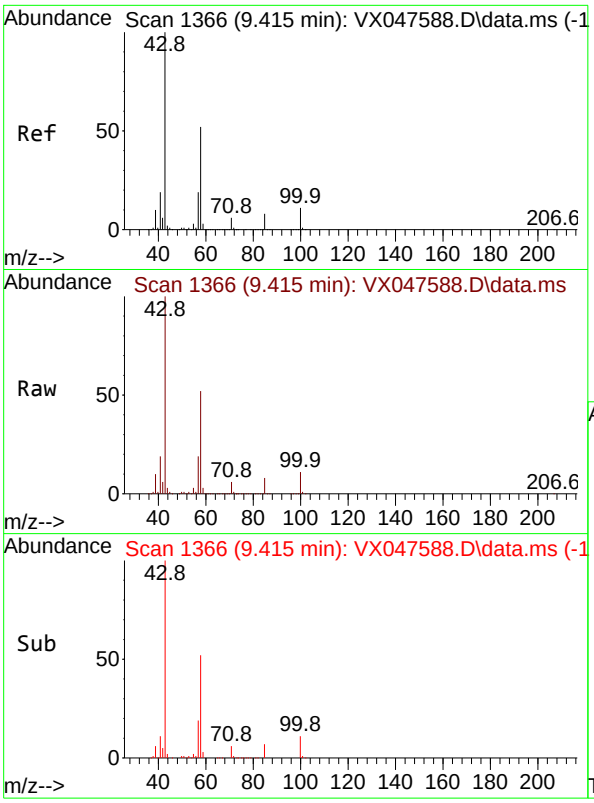


#58
2-Chloroethyl Vinyl ether
Concen: 256.309 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 418707

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.9	32.9



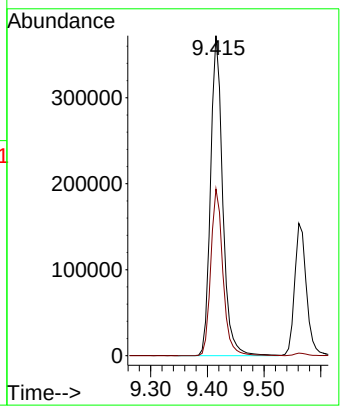


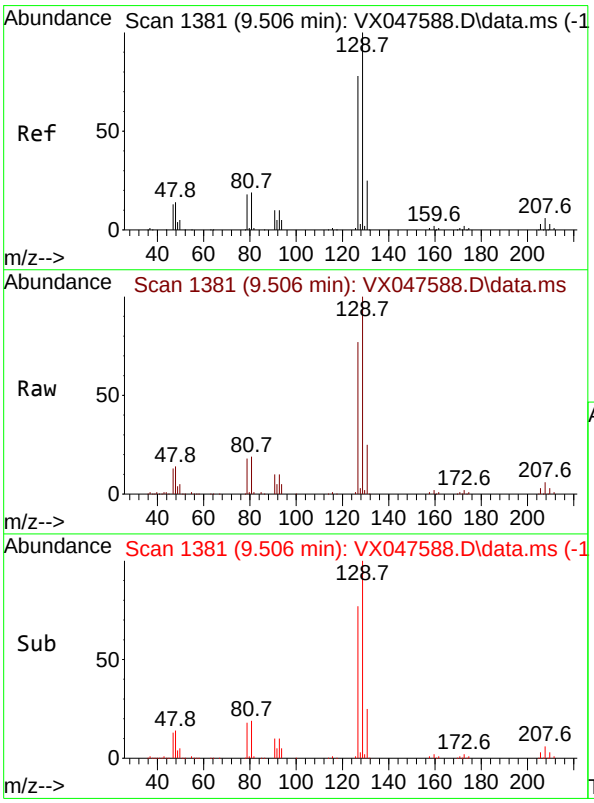
#59
2-Hexanone
Concen: 262.683 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 553313

Ion	Ratio	Lower	Upper
43	100		
58	52.1	26.1	78.2

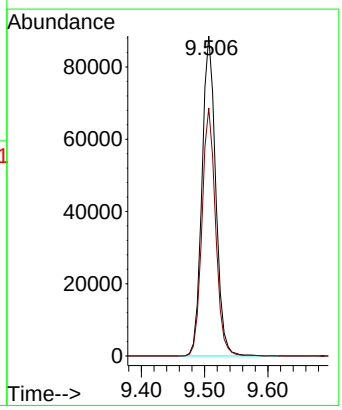


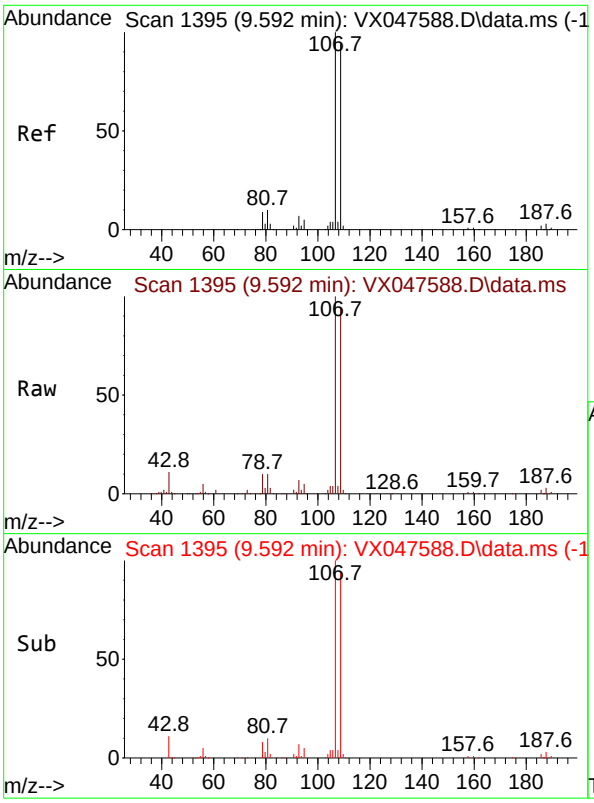


#60
Dibromochloromethane
Concen: 53.401 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:129 Resp: 133737

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.4	115.2



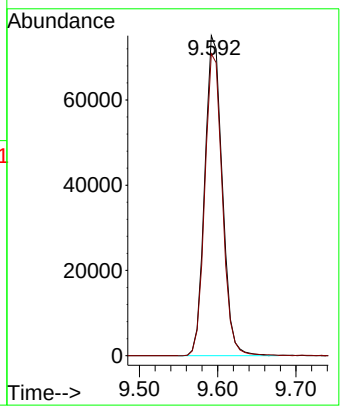


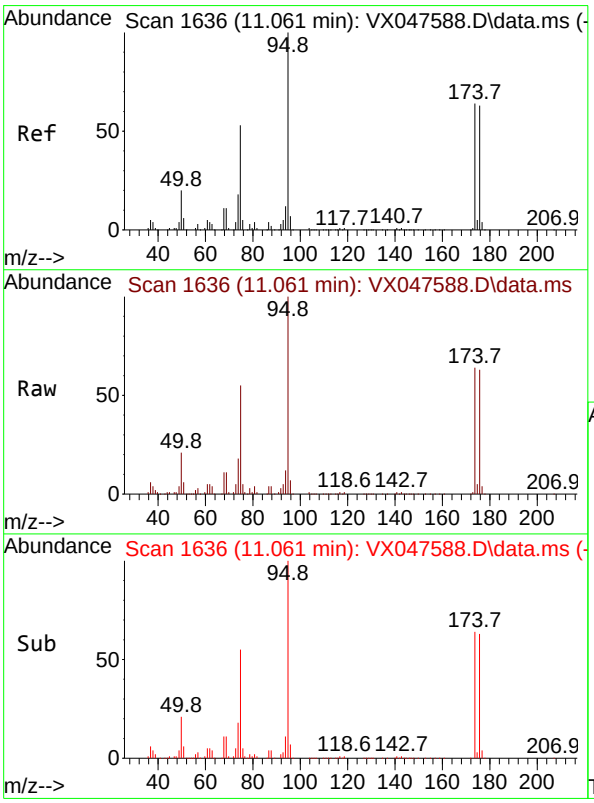
#61
1,2-Dibromoethane
Concen: 52.607 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 116462

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9

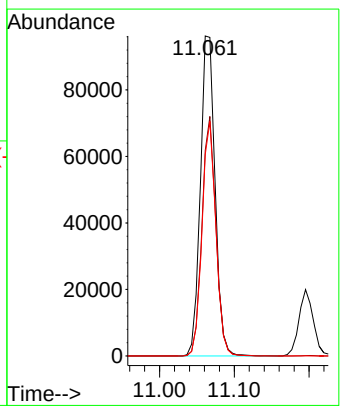


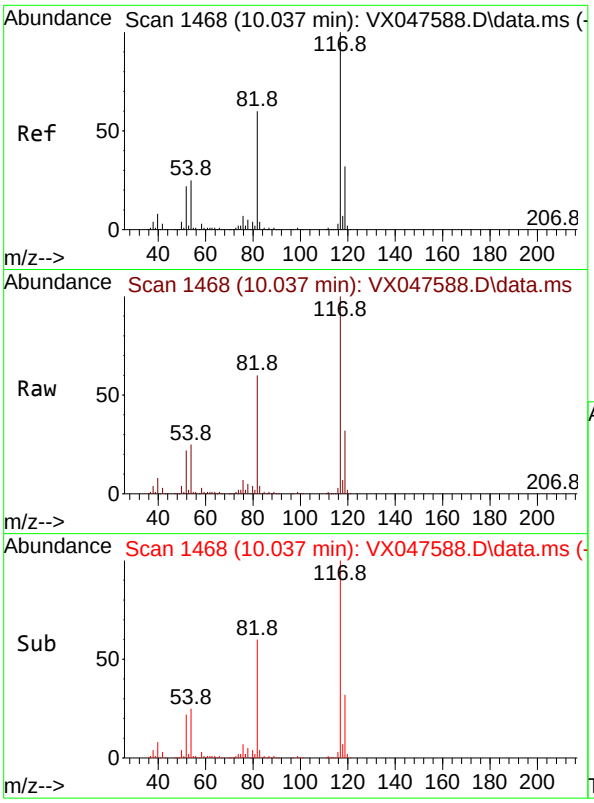


#62
4-Bromofluorobenzene
Concen: 48.471 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 95 Resp: 131217

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	141.6
176	69.2	0.0	138.4



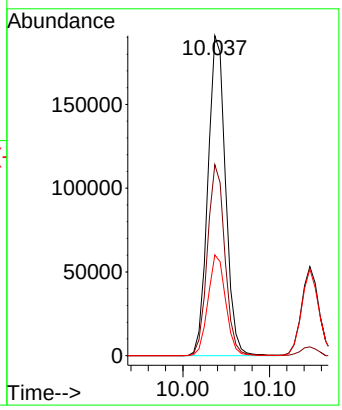


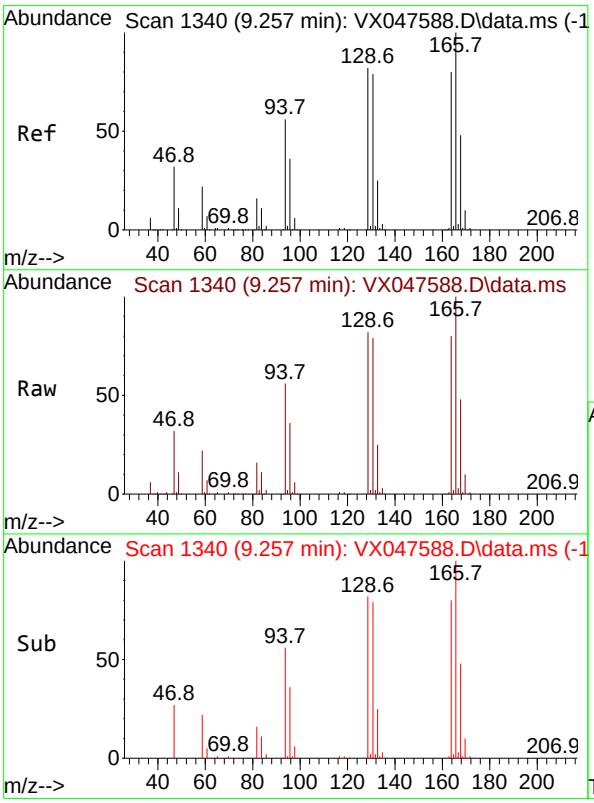
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 270040

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.8	71.6
119	31.5	25.2	37.8

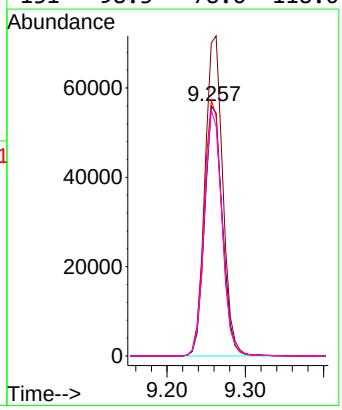


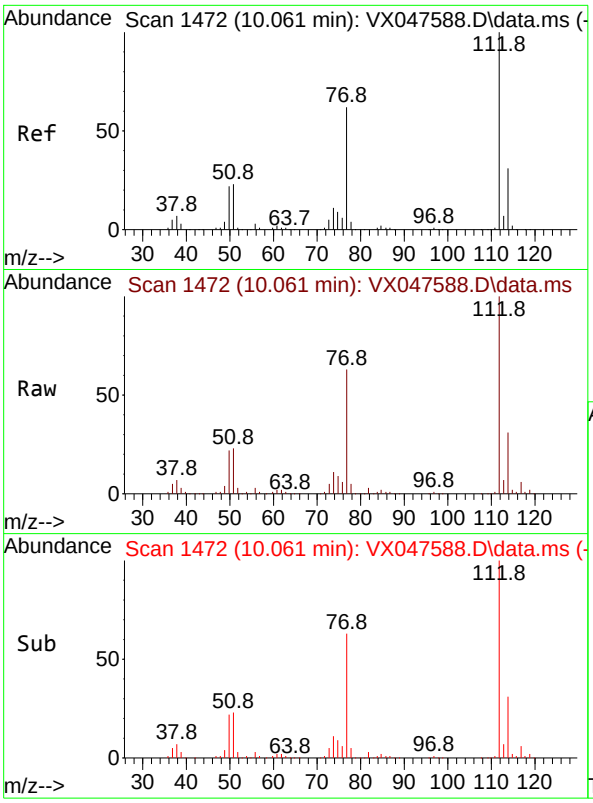


#64
Tetrachloroethene
Concen: 50.074 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:164 Resp: 88149

Ion	Ratio	Lower	Upper
164	100		
166	125.2	100.2	150.2
129	102.2	81.8	122.6
131	98.3	78.6	118.0



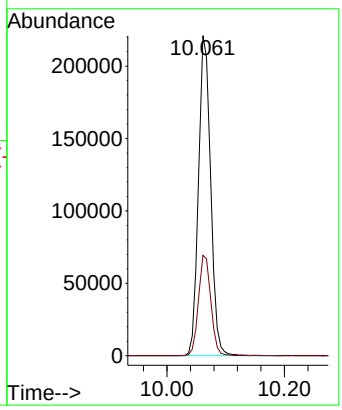


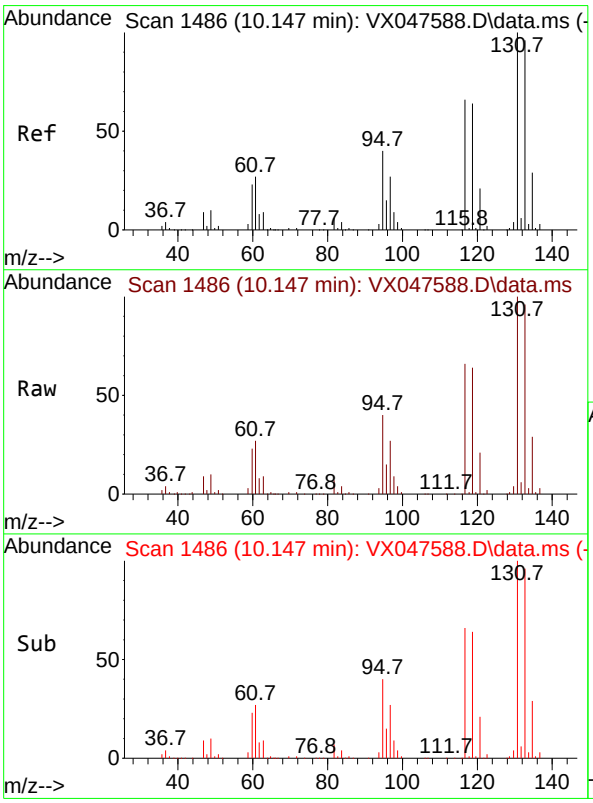
#65
Chlorobenzene
Concen: 51.833 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 317982

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

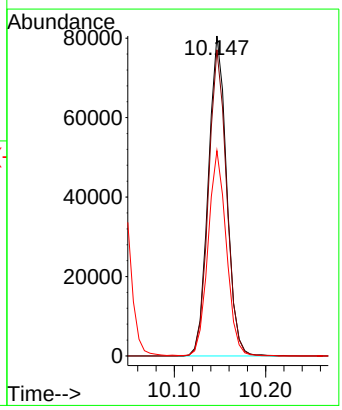


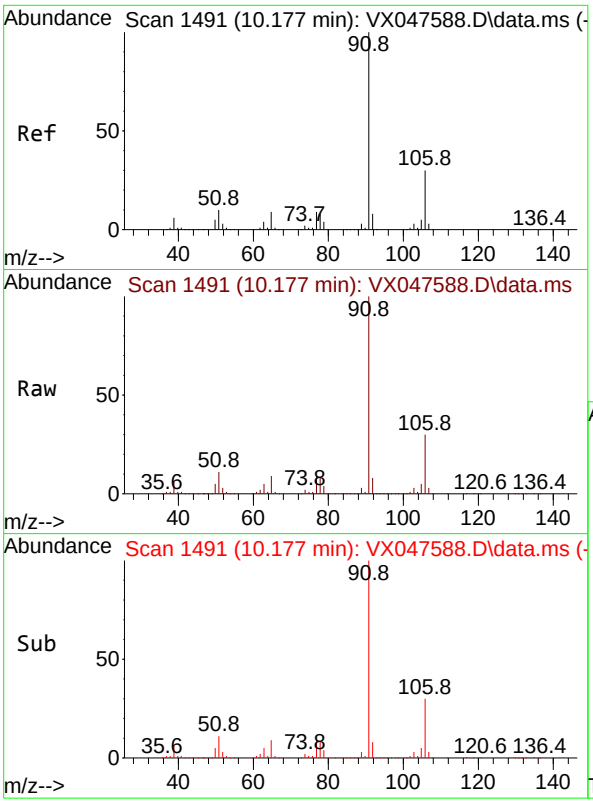


#66
1,1,1,2-Tetrachloroethane
Concen: 52.835 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:131 Resp: 111849

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.3	142.0
119	64.0	32.0	96.0



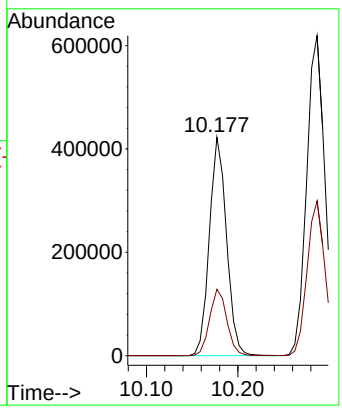


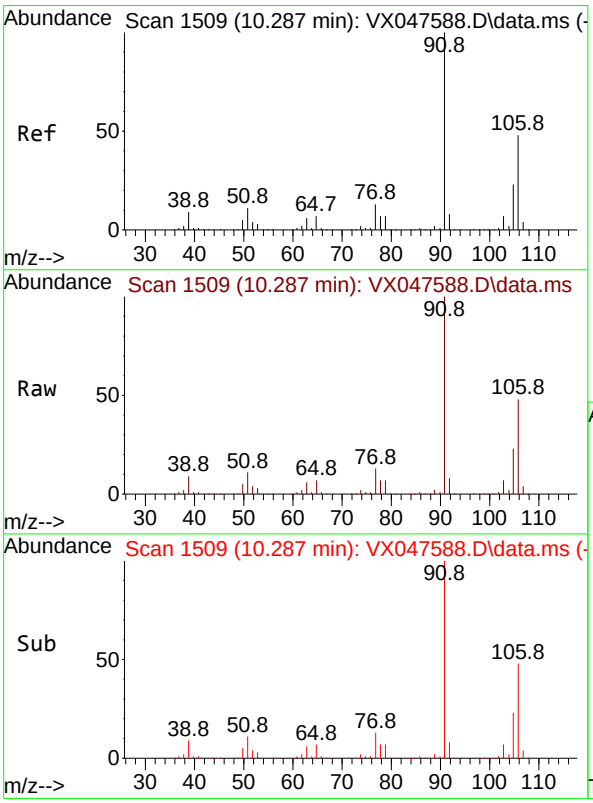
#67
Ethyl Benzene
Concen: 52.017 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 550610

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5

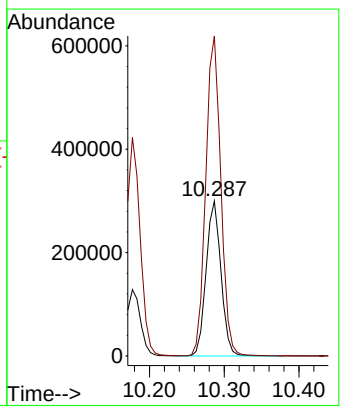


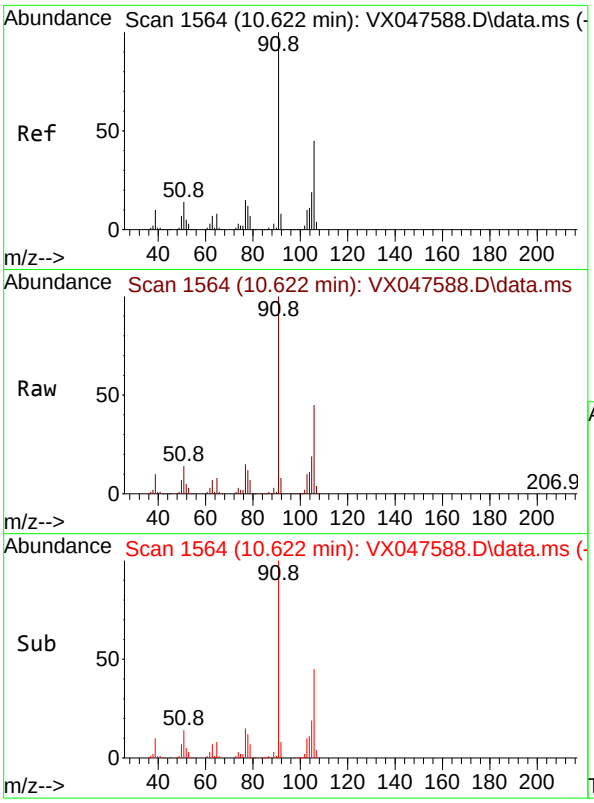


#68
m/p-Xylenes
Concen: 104.809 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:106 Resp: 412932

Ion	Ratio	Lower	Upper
106	100		
91	209.8	167.8	251.8



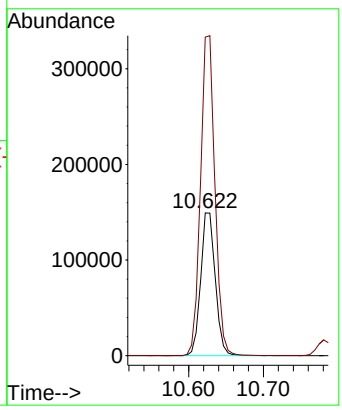


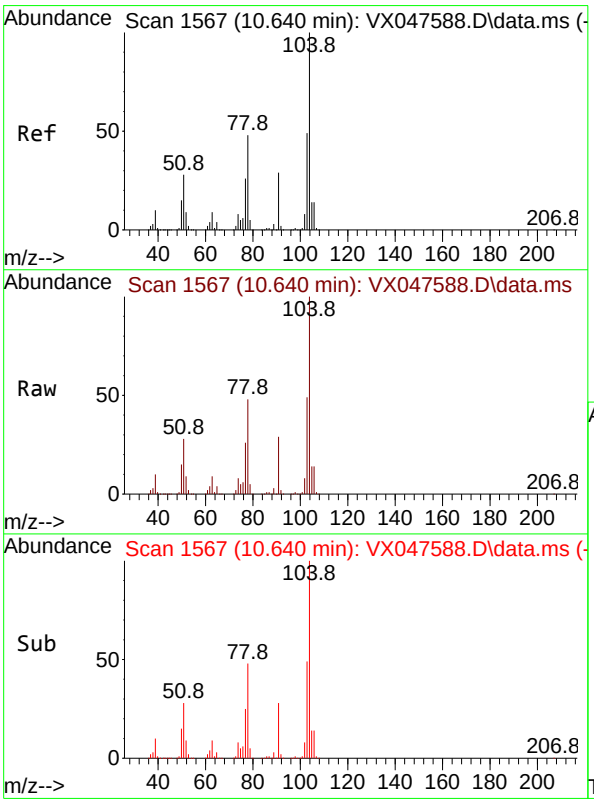
#69
o-Xylene
Concen: 53.084 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 202291

Ion	Ratio	Lower	Upper
106	100		
91	222.3	111.1	333.4

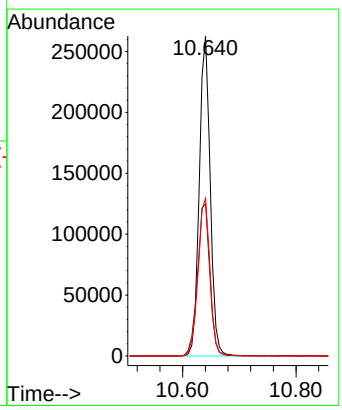


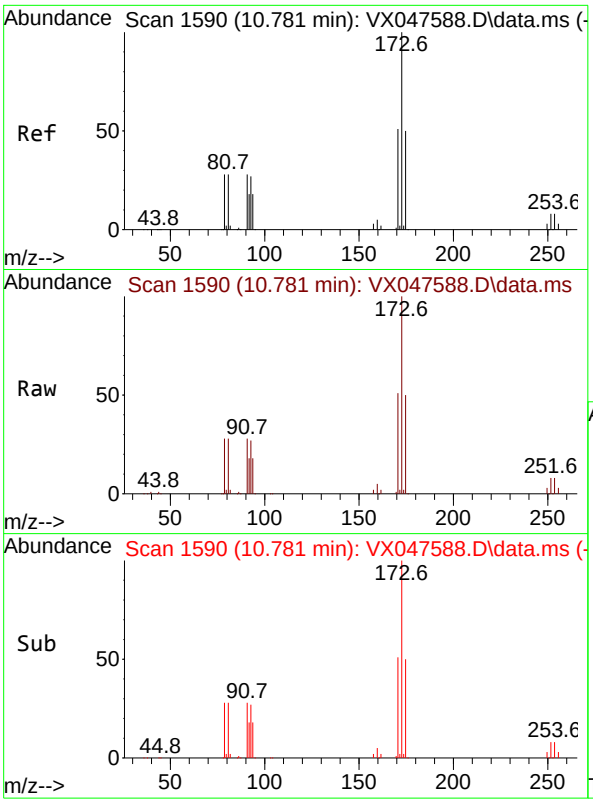


#70
Styrene
Concen: 52.515 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:104 Resp: 350654

Ion	Ratio	Lower	Upper
104	100		
78	53.9	43.1	64.7
103	53.9	43.1	64.7



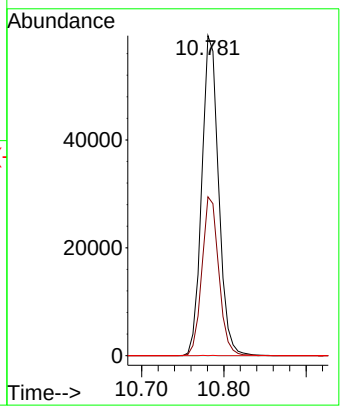


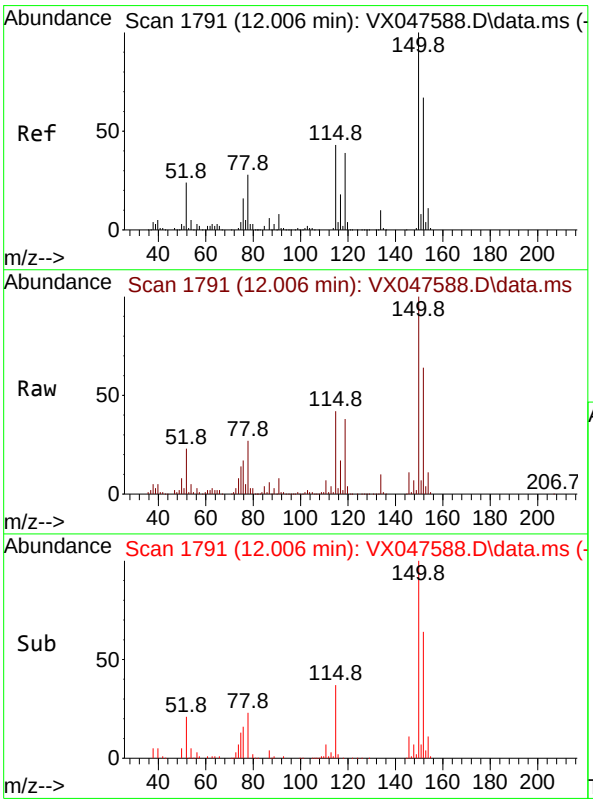
#71
Bromoform
Concen: 53.447 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 84485

Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.9	74.6
254	0.1	0.1	0.1#

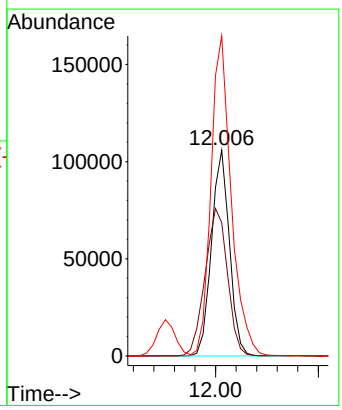


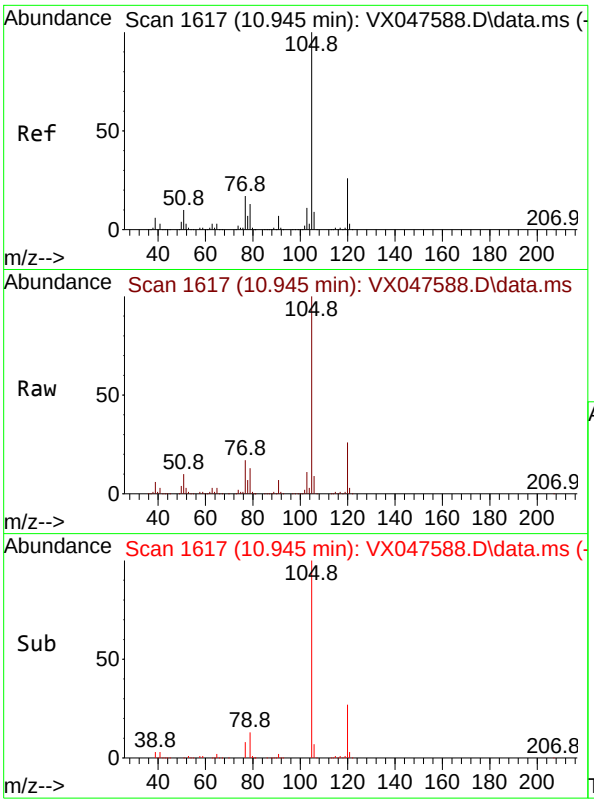


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:152 Resp: 127732

Ion	Ratio	Lower	Upper
152	100		
115	89.7	44.9	134.5
150	176.0	0.0	352.0



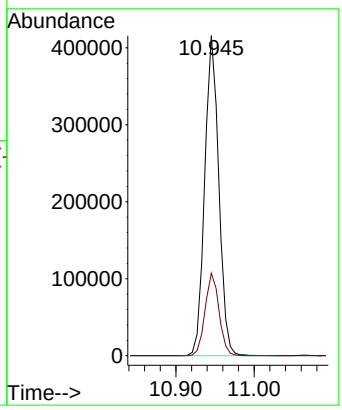


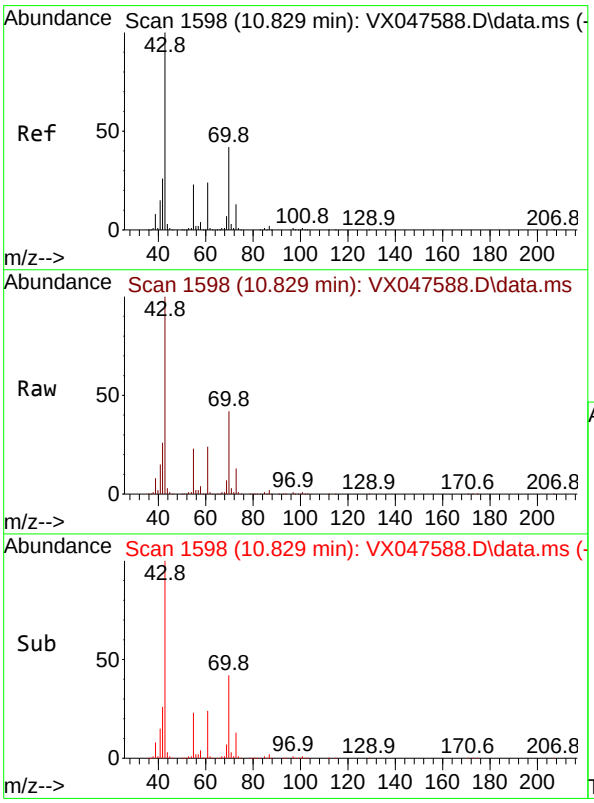
#73
Isopropylbenzene
Concen: 53.227 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 516891

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4

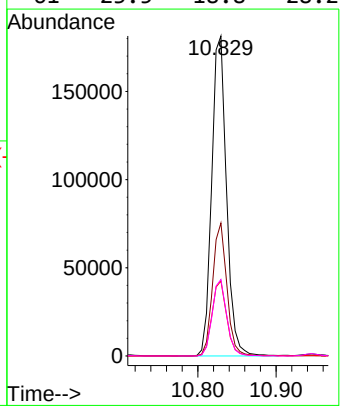


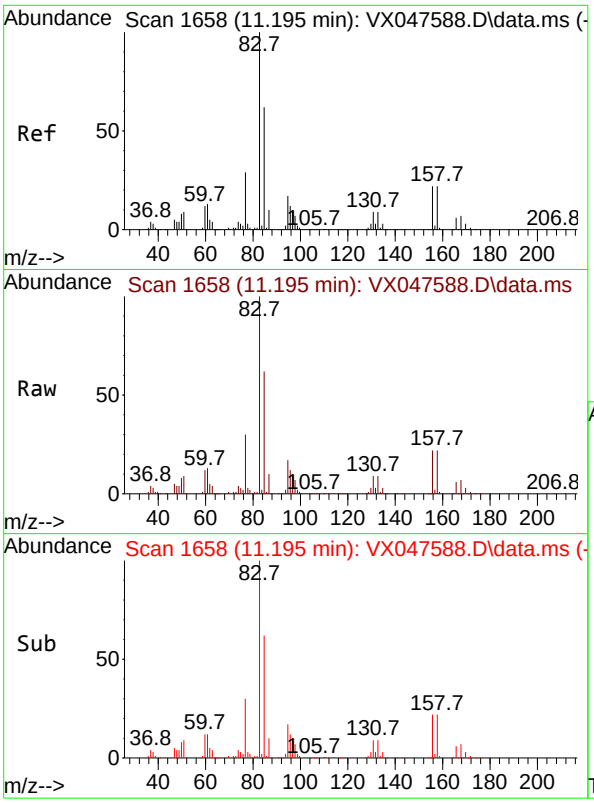


#74
N-amyl acetate
Concen: 53.710 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 237846

Ion	Ratio	Lower	Upper
43	100		
70	40.0	32.0	48.0
55	23.6	18.9	28.3
61	23.5	18.8	28.2



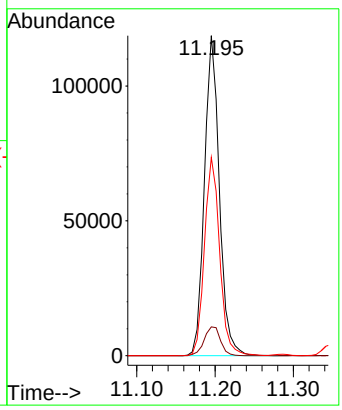


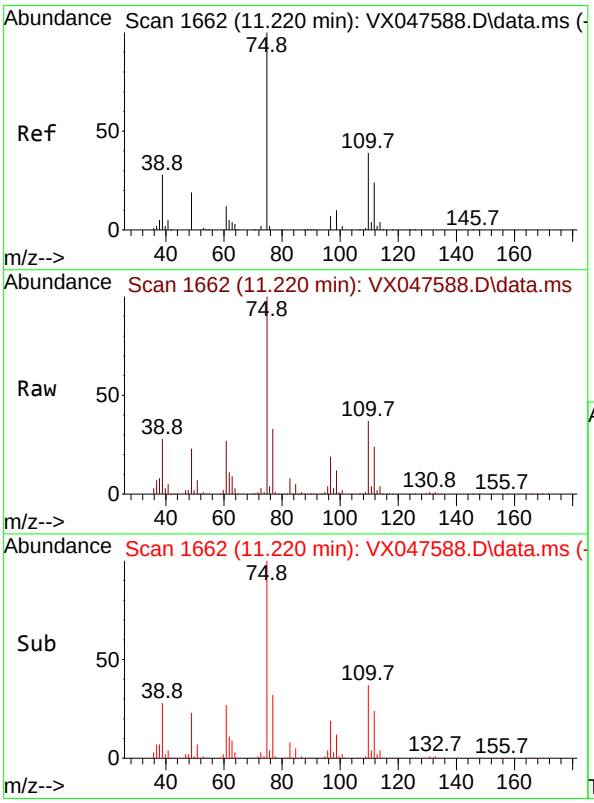
#75
1,1,2,2-Tetrachloroethane
Concen: 53.251 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 156454

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.3	31.6	95.0

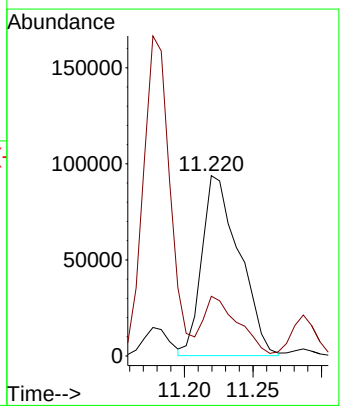


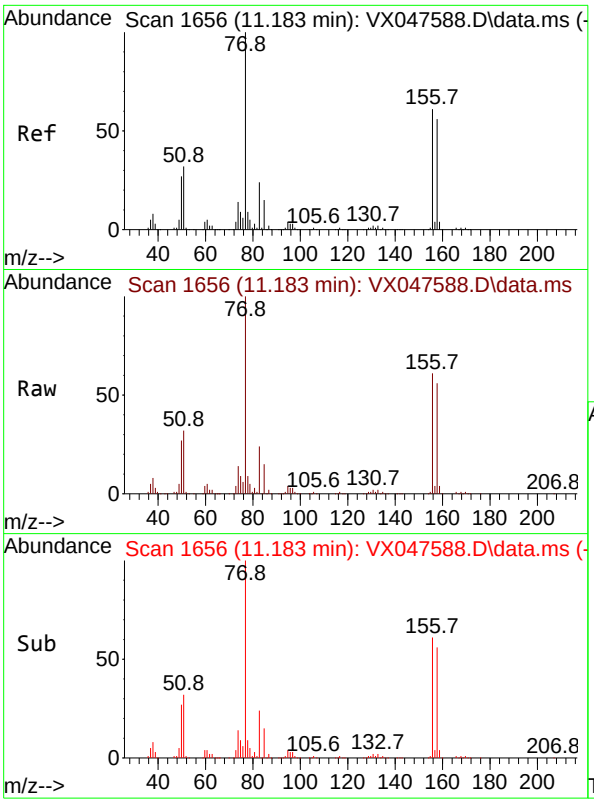


#76
1,2,3-Trichloropropane
Concen: 68.947 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 178309

Ion	Ratio	Lower	Upper
75	100		
77	30.4	18.8	56.4



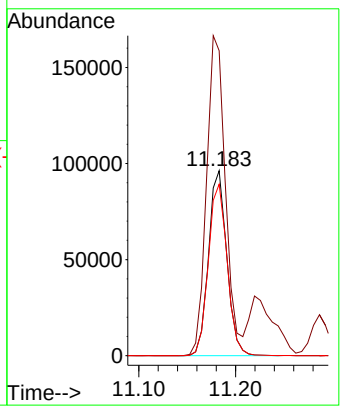


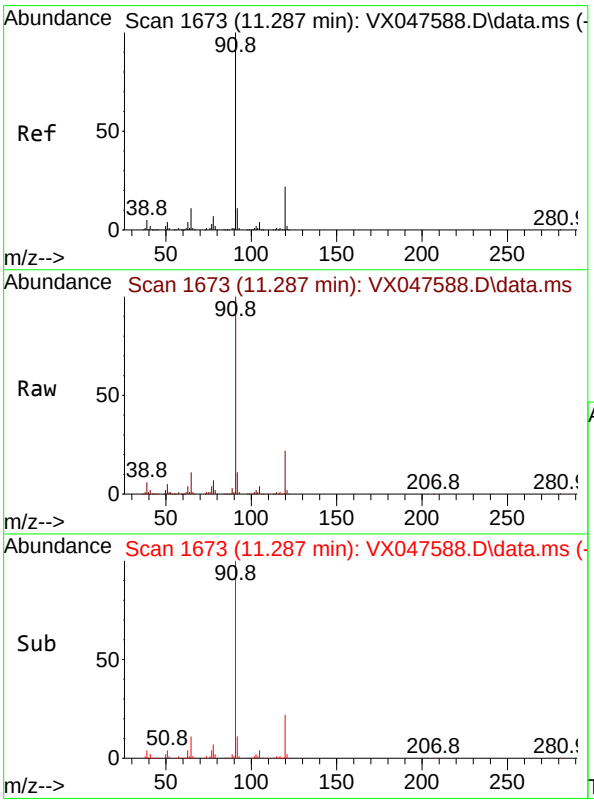
#77
Bromobenzene
Concen: 52.754 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 126174

Ion	Ratio	Lower	Upper
156	100		
77	179.4	89.7	269.1
158	95.7	47.9	143.6

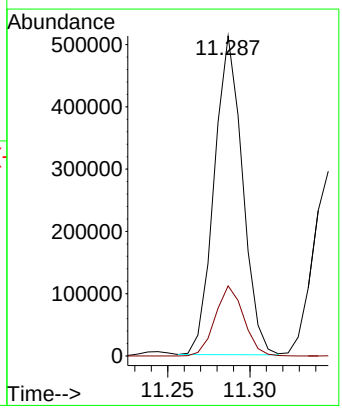


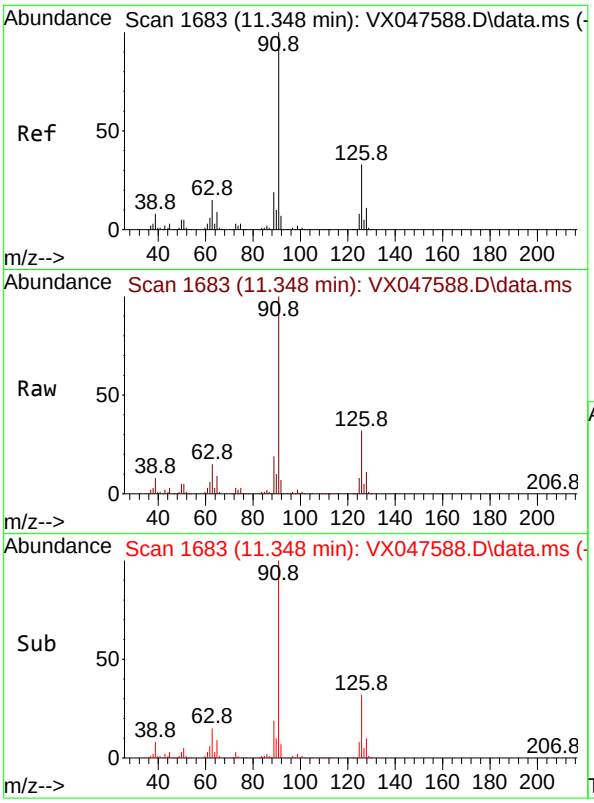


#78
n-propylbenzene
Concen: 53.315 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 612035

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1



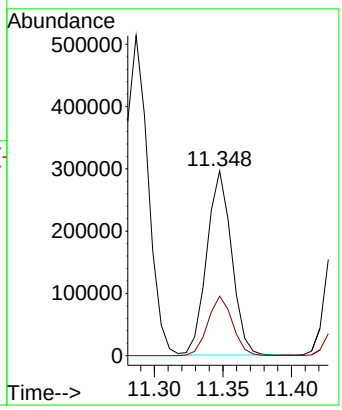


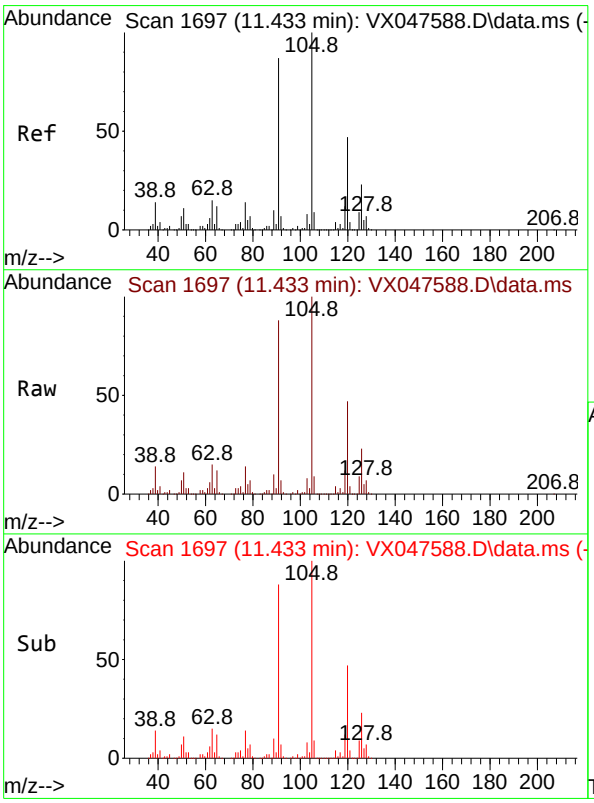
#79
2-Chlorotoluene
Concen: 52.965 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 372397

Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.1	48.3

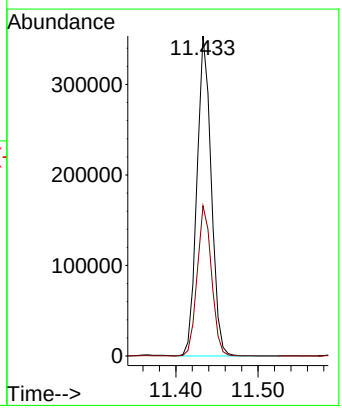


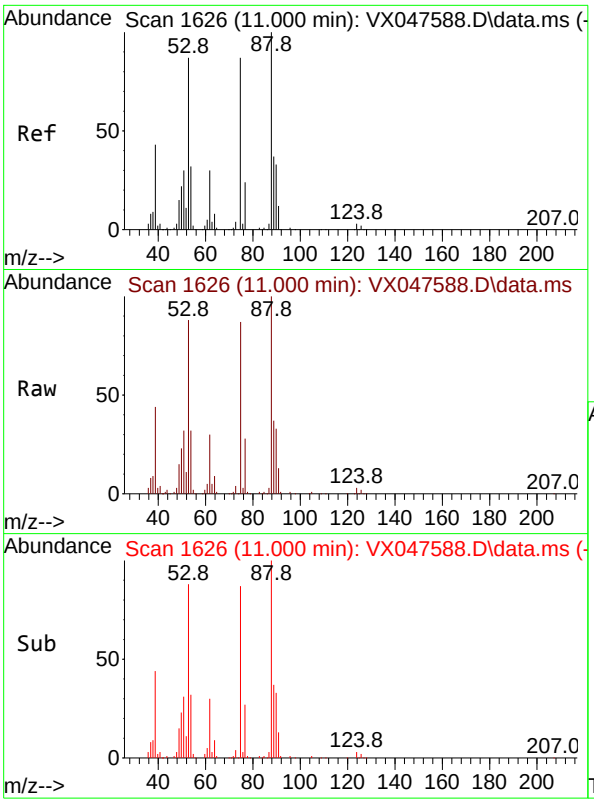


#80
1,3,5-Trimethylbenzene
Concen: 53.518 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 426989

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8



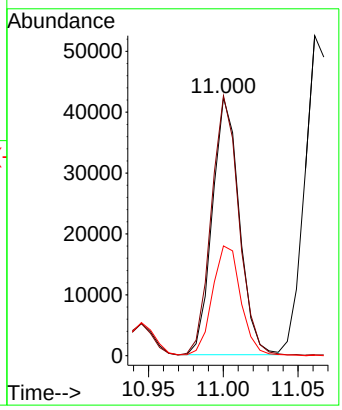


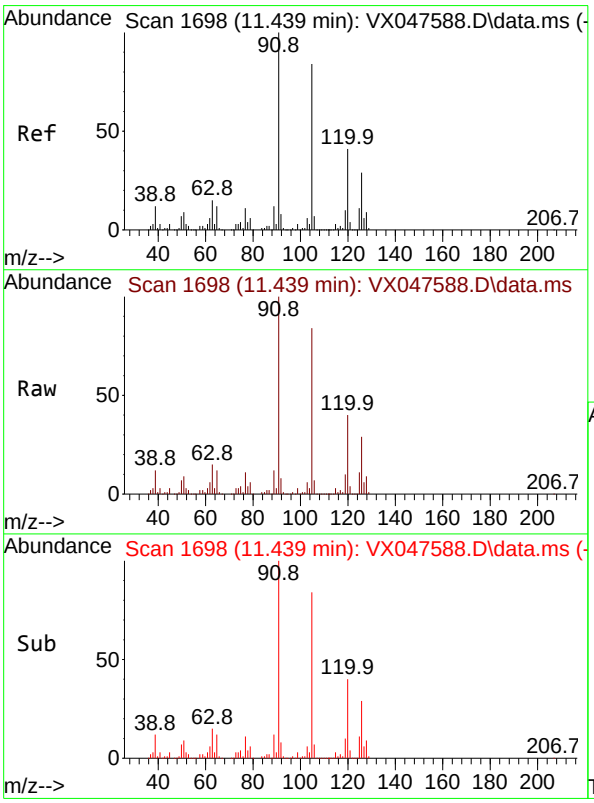
#81
trans-1,4-Dichloro-2-butene
Concen: 52.190 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 52927

Ion	Ratio	Lower	Upper
75	100		
53	104.3	83.4	125.2
89	45.4	36.3	54.5

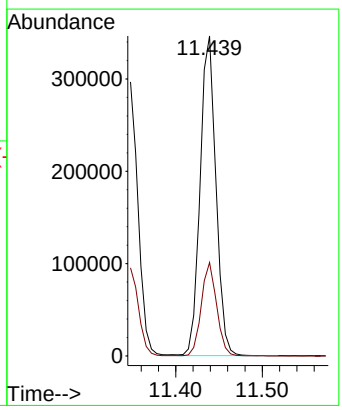


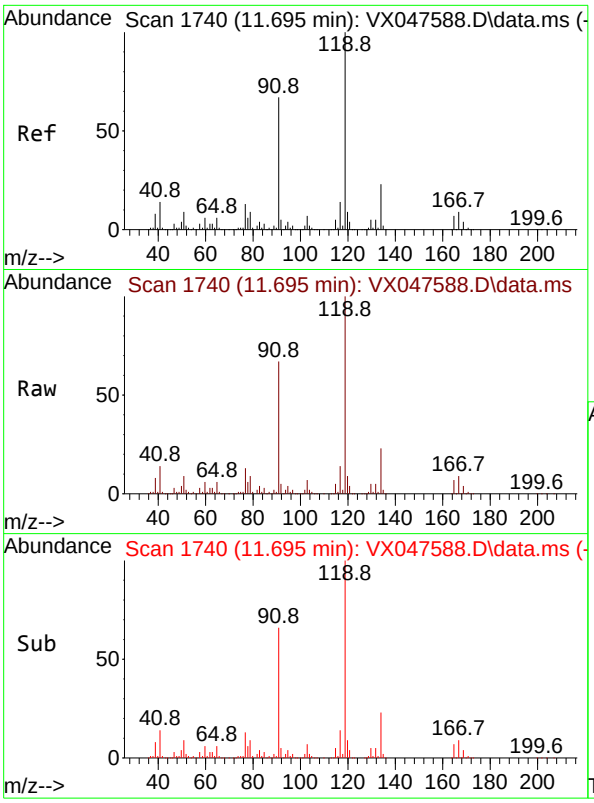


#82
4-Chlorotoluene
Concen: 52.806 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 438502

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6



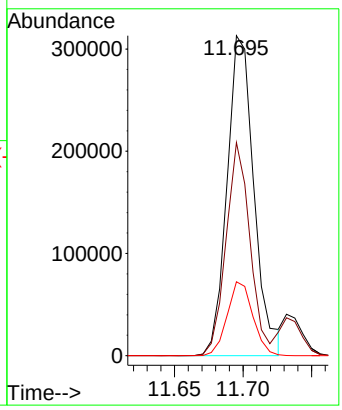


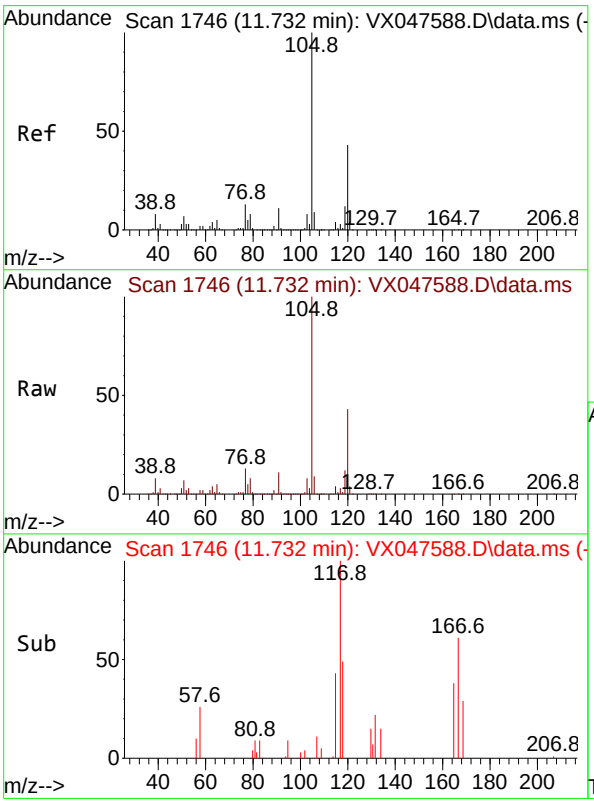
#83
tert-Butylbenzene
Concen: 52.539 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 429107

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	22.0	11.0	33.0

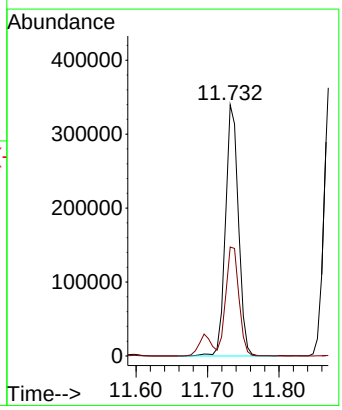


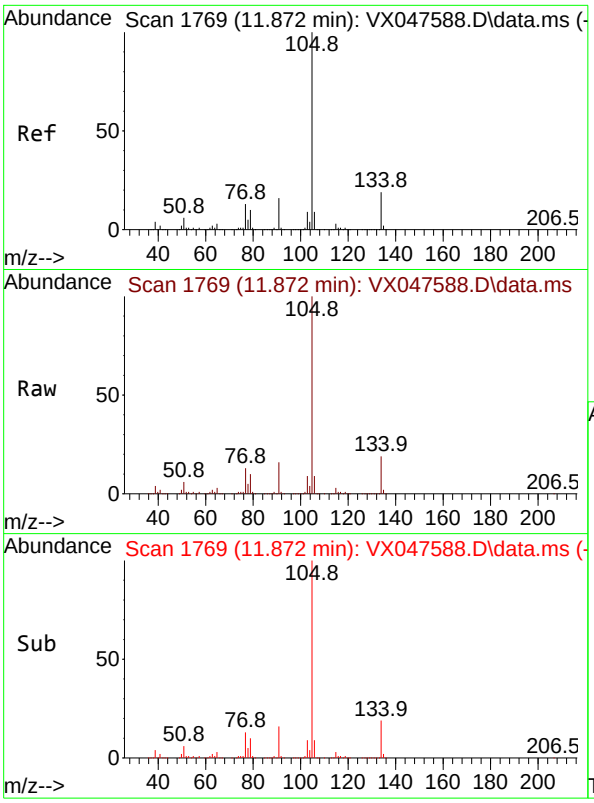


#84
1,2,4-Trimethylbenzene
Concen: 52.798 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 427073

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



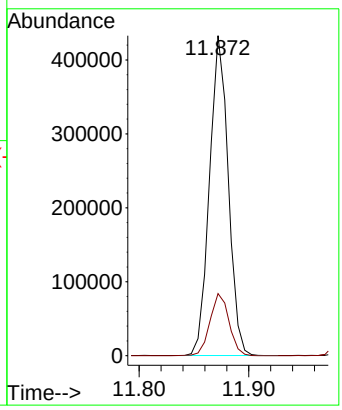


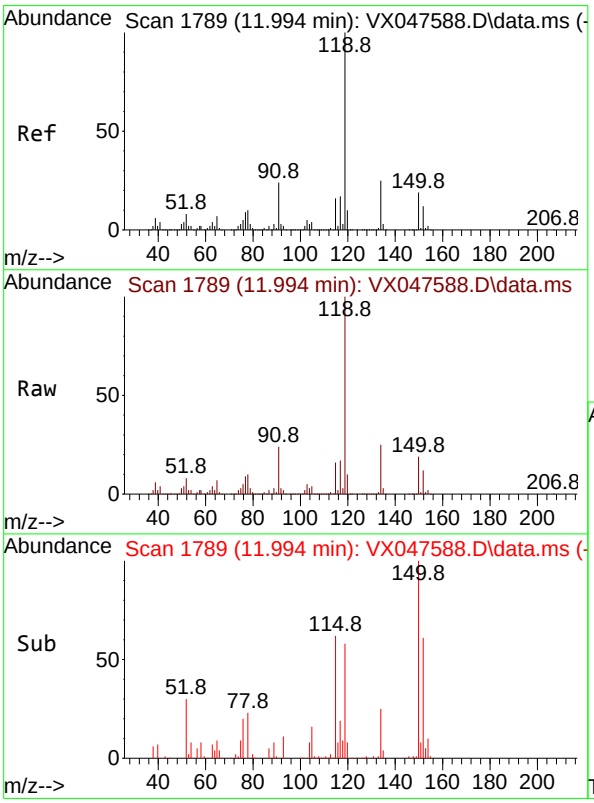
#85
sec-Butylbenzene
Concen: 53.029 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 514442

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

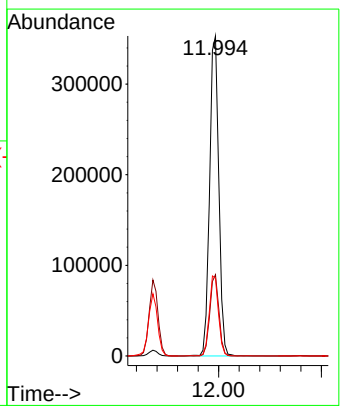


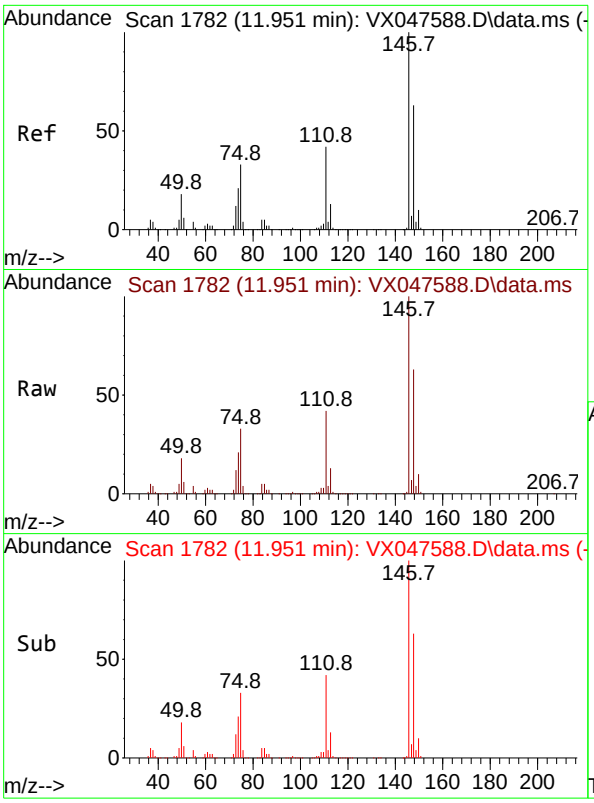


#86
p-Isopropyltoluene
Concen: 53.172 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:119 Resp: 436704

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.6	37.8
91	25.1	12.6	37.6



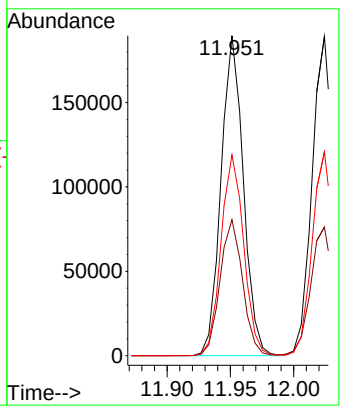


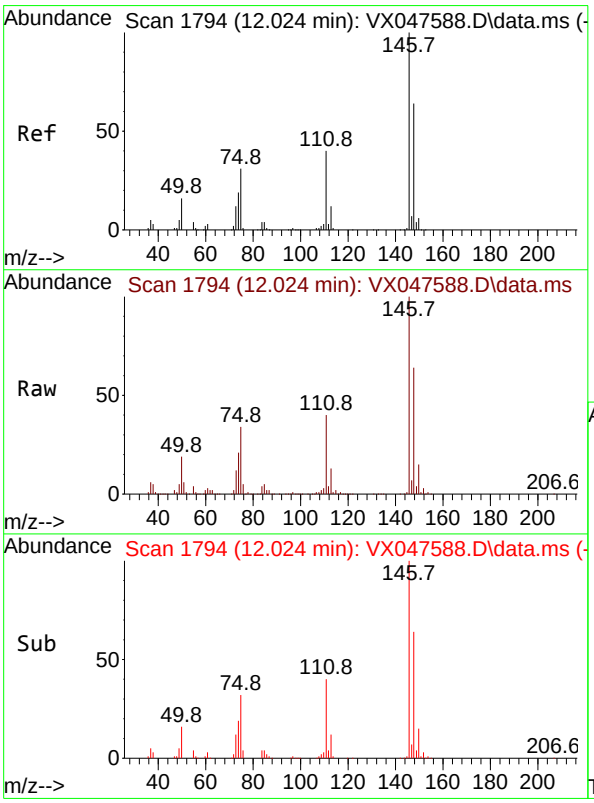
#87
1,3-Dichlorobenzene
Concen: 52.232 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 232038

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	64.0	32.0	96.0

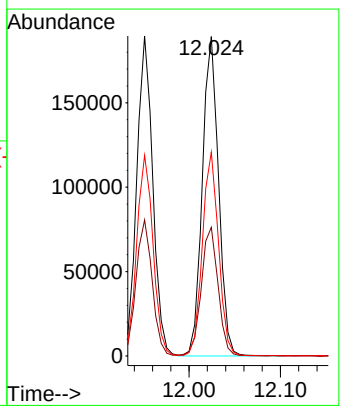


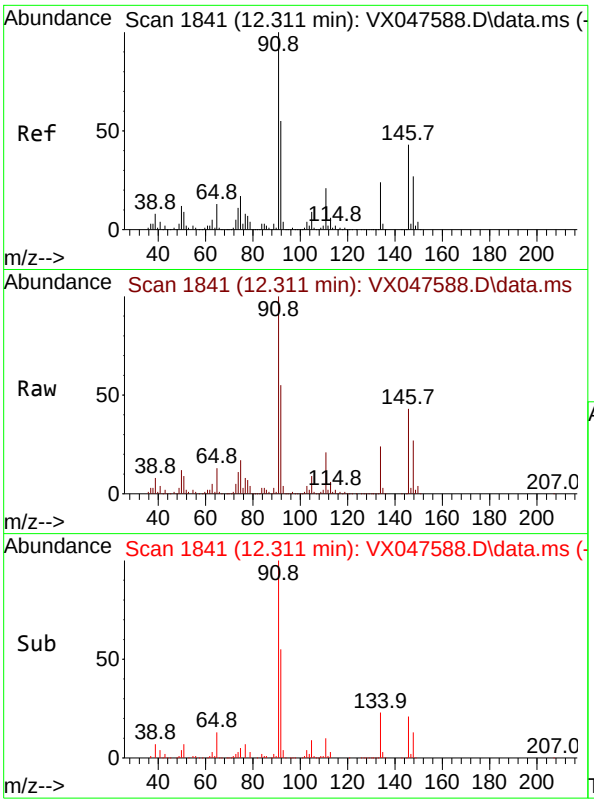


#88
1,4-Dichlorobenzene
Concen: 51.316 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 233975

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.4	31.7	95.1



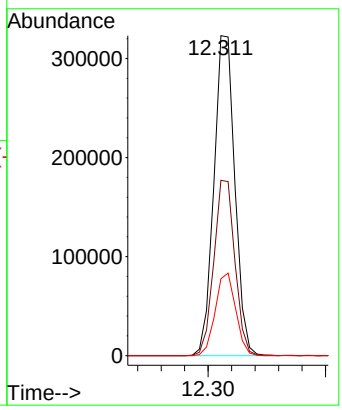


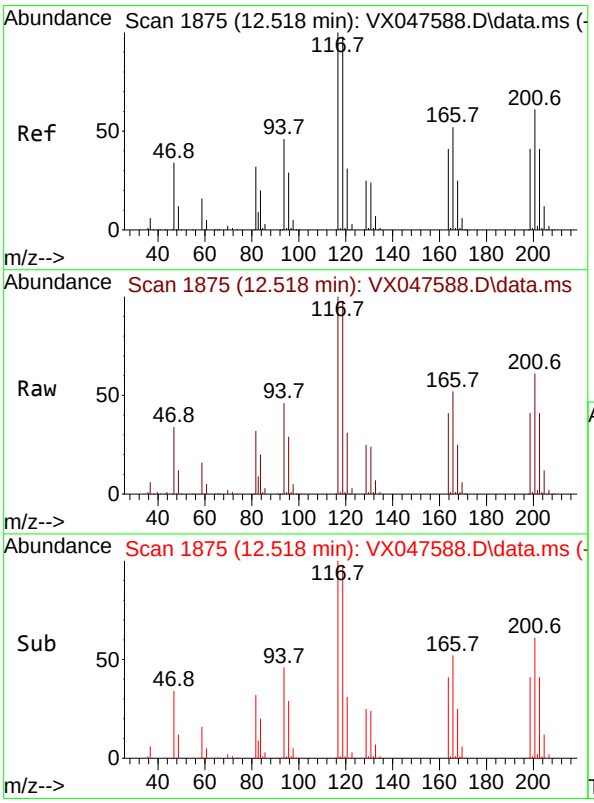
#89
n-Butylbenzene
Concen: 52.766 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 400997

Ion	Ratio	Lower	Upper
91	100		
92	55.1	27.6	82.7
134	25.2	12.6	37.8

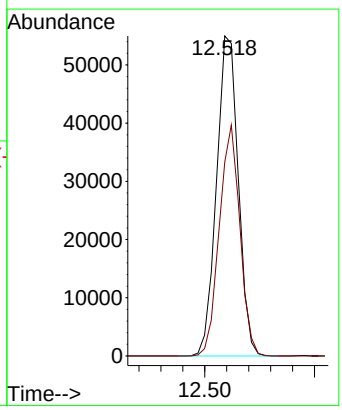


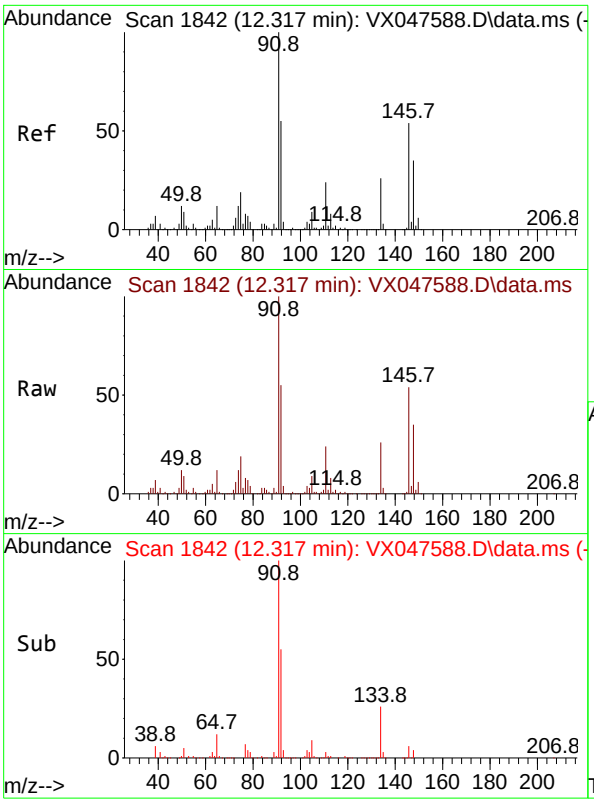


#90
Hexachloroethane
Concen: 52.567 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 75800

Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.2	102.5



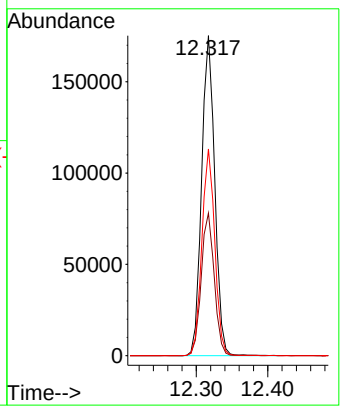


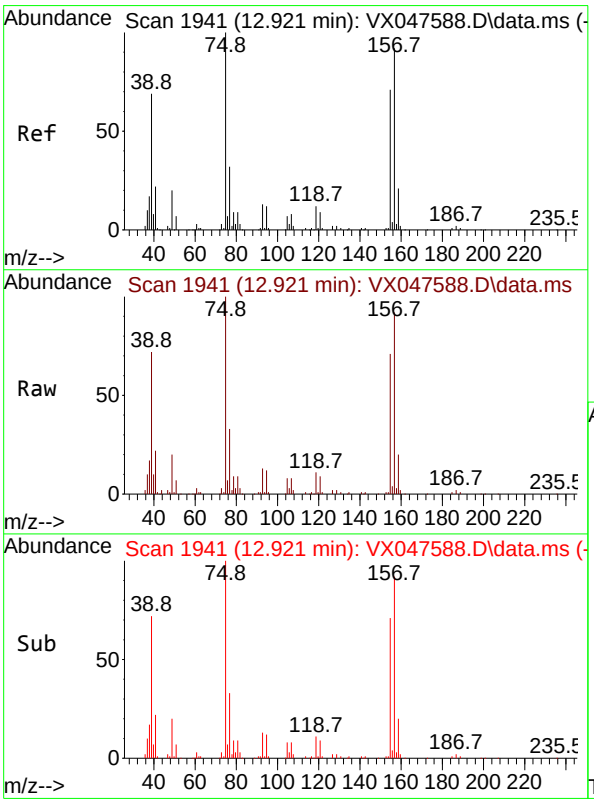
#91
1,2-Dichlorobenzene
Concen: 52.688 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 222993

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.2	66.6
148	63.6	31.8	95.4

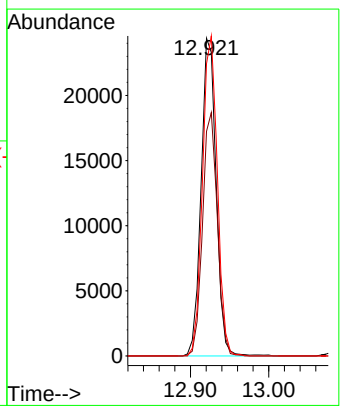


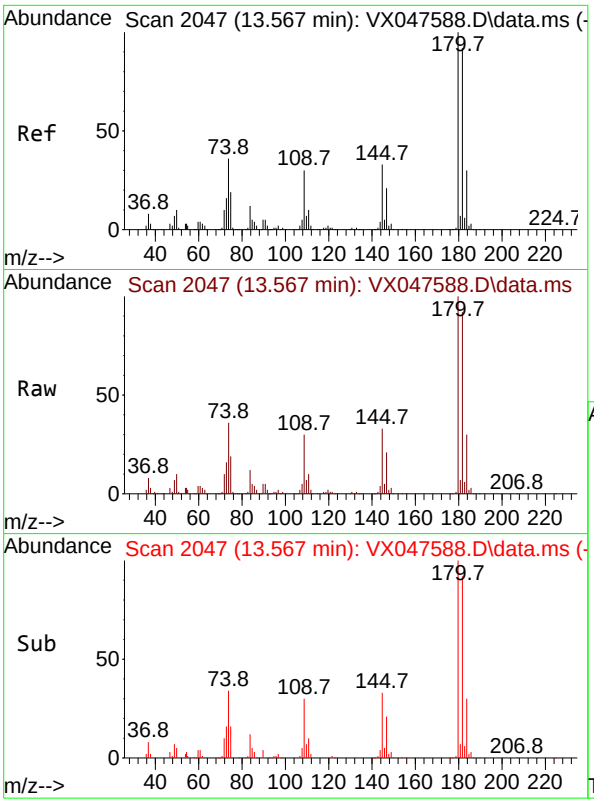


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.554 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 32451

Ion	Ratio	Lower	Upper
75	100		
155	75.4	37.7	113.1
157	99.6	49.8	149.4



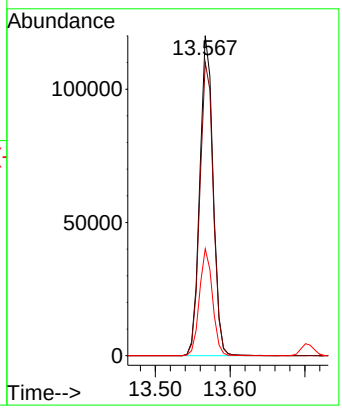


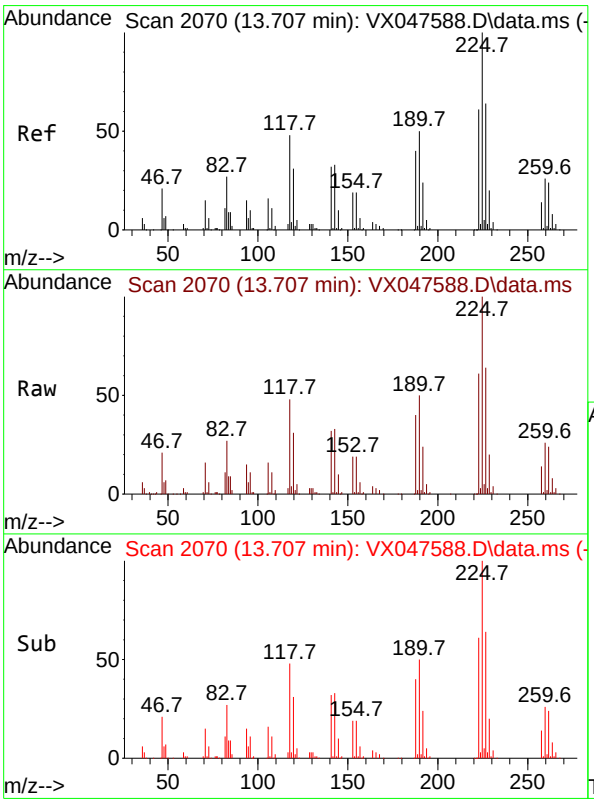
#93
1,2,4-Trichlorobenzene
Concen: 53.685 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 147670

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	32.7	16.4	49.1

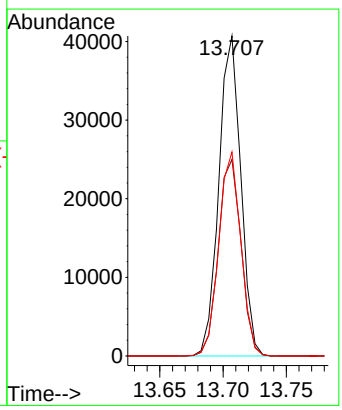


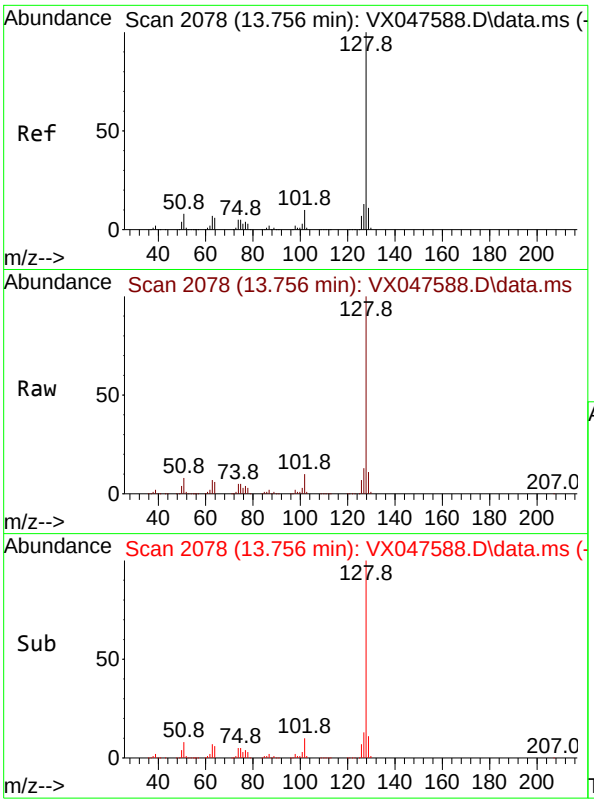


#94
Hexachlorobutadiene
Concen: 52.510 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:225 Resp: 49061

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.7	95.1
227	64.0	32.0	96.0



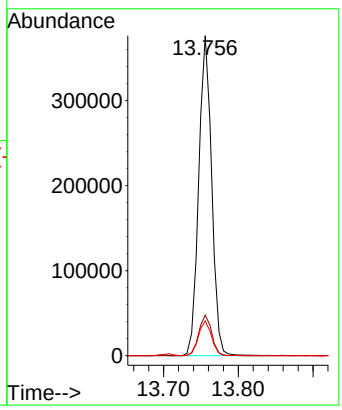


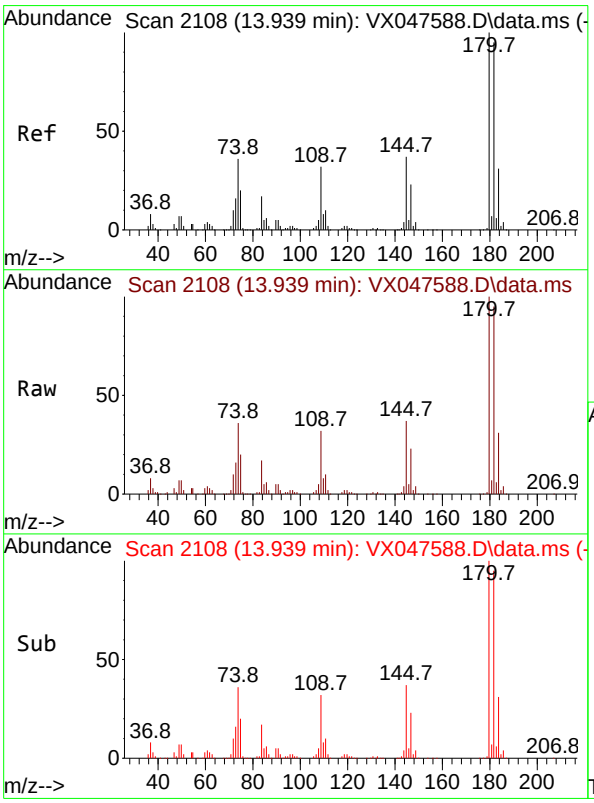
#95
Naphthalene
Concen: 53.966 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 452013

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2

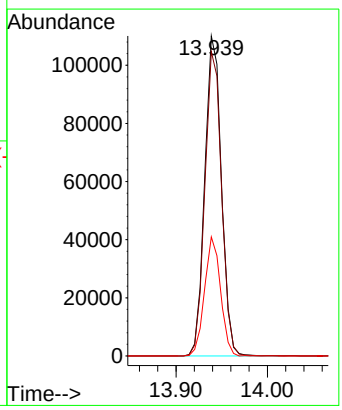




#96
1,2,3-Trichlorobenzene
Concen: 54.316 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 138978

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	35.8	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Sep 22 01:51:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	169280	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	298913	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	258399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122218	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	275758	102.341	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 204.680%#			
35) Dibromofluoromethane	5.361	113	212419	105.962	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 211.920%#			
50) Toluene-d8	8.629	98	724078	104.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 208.780%#			
62) 4-Bromofluorobenzene	11.061	95	270289	102.672	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 205.340%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	172727	98.537	ug/l	100
3) Chloromethane	1.301	50	229165	99.472	ug/l	100
4) Vinyl Chloride	1.380	62	229175	101.621	ug/l	100
5) Bromomethane	1.611	94	143113	100.076	ug/l	99
6) Chloroethane	1.691	64	152487	101.167	ug/l	99
7) Trichlorofluoromethane	1.892	101	344488	102.878	ug/l	100
8) Diethyl Ether	2.130	74	142038	103.695	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	199843	102.067	ug/l	99
10) Methyl Iodide	2.453	142	313092	102.531	ug/l	99
11) Tert butyl alcohol	2.947	59	152108	506.863	ug/l	98
12) 1,1-Dichloroethene	2.319	96	206097	102.473	ug/l	93
13) Acrolein	2.233	56	150793	545.276	ug/l	97
14) Allyl chloride	2.660	41	415140	100.028	ug/l	99
15) Acrylonitrile	3.056	53	581240	522.897	ug/l	100
16) Acetone	2.374	43	510542	435.772	ug/l	100
17) Carbon Disulfide	2.514	76	537888	97.693	ug/l	98
18) Methyl Acetate	2.697	43	292867	112.324	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	748952	102.011	ug/l	100
20) Methylene Chloride	2.782	84	242548	97.805	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	217759	100.566	ug/l	98
22) Diisopropyl ether	3.745	45	811840	100.934	ug/l	88
23) Vinyl Acetate	3.709	43	3314707	514.916	ug/l	99
24) 1,1-Dichloroethane	3.599	63	435815	101.944	ug/l	98
25) 2-Butanone	4.532	43	700827	479.558	ug/l	97
26) 2,2-Dichloropropane	4.465	77	357292	100.542	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	266550	100.516	ug/l	100
28) Bromochloromethane	4.873	49	198788	106.512	ug/l	99
29) Tetrahydrofuran	4.977	42	443530	504.502	ug/l	99
30) Chloroform	5.074	83	433937	100.447	ug/l	100
31) Cyclohexane	5.452	56	332995	93.523	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	372323	101.607	ug/l	99
36) 1,1-Dichloropropene	5.672	75	281650	96.149	ug/l	98
37) Ethyl Acetate	4.690	43	318793	101.641	ug/l	99
38) Carbon Tetrachloride	5.660	117	314745	98.891	ug/l	98
39) Methylcyclohexane	7.360	83	327858	98.600	ug/l	98
40) Benzene	6.019	78	880885	99.009	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Sep 22 01:51:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	168753	104.220	ug/l	99
42) 1,2-Dichloroethane	6.062	62	331465	97.916	ug/l	100
43) Isopropyl Acetate	6.318	43	516875	100.482	ug/l	99
44) Trichloroethene	7.104	130	217753	101.234	ug/l	96
45) 1,2-Dichloropropane	7.409	63	228150	100.145	ug/l	100
46) Dibromomethane	7.562	93	164987	99.519	ug/l	99
47) Bromodichloromethane	7.806	83	345991	101.136	ug/l	98
48) Methyl methacrylate	7.671	41	260358	101.612	ug/l	100
49) 1,4-Dioxane	7.641	88	56717	2190.315	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	1431253	501.834	ug/l	100
52) Toluene	8.702	92	536148	97.811	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	355881	101.986	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	380577	102.038	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	205939	97.434	ug/l	97
56) Ethyl methacrylate	9.098	69	346659	104.435	ug/l	99
57) 1,3-Dichloropropane	9.293	76	362848	99.935	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	836362	499.814	ug/l	100
59) 2-Hexanone	9.415	43	996274	486.380	ug/l	100
60) Dibromochloromethane	9.506	129	251394	103.226	ug/l	99
61) 1,2-Dibromoethane	9.592	107	217751	101.147	ug/l	100
64) Tetrachloroethene	9.256	164	165559	98.284	ug/l	98
65) Chlorobenzene	10.061	112	588517	100.253	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	208621	102.988	ug/l	100
67) Ethyl Benzene	10.177	91	1031346	101.823	ug/l	100
68) m/p-Xylenes	10.287	106	763898	202.624	ug/l	99
69) o-Xylene	10.622	106	372621	102.186	ug/l	99
70) Styrene	10.634	104	649863	101.710	ug/l	100
71) Bromoform	10.781	173	161188	106.566	ug/l	98
73) Isopropylbenzene	10.945	105	954900	102.768	ug/l	100
74) N-amyl acetate	10.823	43	448344	105.812	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	281608	100.172	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	327988	132.545	ug/l	89
77) Bromobenzene	11.183	156	234666	102.541	ug/l	98
78) n-propylbenzene	11.287	91	1119728	101.941	ug/l	99
79) 2-Chlorotoluene	11.348	91	683867	101.652	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	787327	103.134	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	102555	105.689	ug/l	98
82) 4-Chlorotoluene	11.433	91	802929	101.054	ug/l	100
83) tert-Butylbenzene	11.695	119	791896	101.333	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	790557	102.144	ug/l	99
85) sec-Butylbenzene	11.872	105	945321	101.840	ug/l	100
86) p-Isopropyltoluene	11.994	119	797643	101.501	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	432248	101.689	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	431839	98.985	ug/l	100
89) n-Butylbenzene	12.311	91	757239	104.138	ug/l	99
90) Hexachloroethane	12.518	117	148048	107.304	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	414491	102.352	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	61029	107.225	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	278777	105.922	ug/l	100
94) Hexachlorobutadiene	13.707	225	92124	103.049	ug/l	99
95) Naphthalene	13.756	128	854492	106.620	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	263512	107.633	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Sep 22 01:51:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

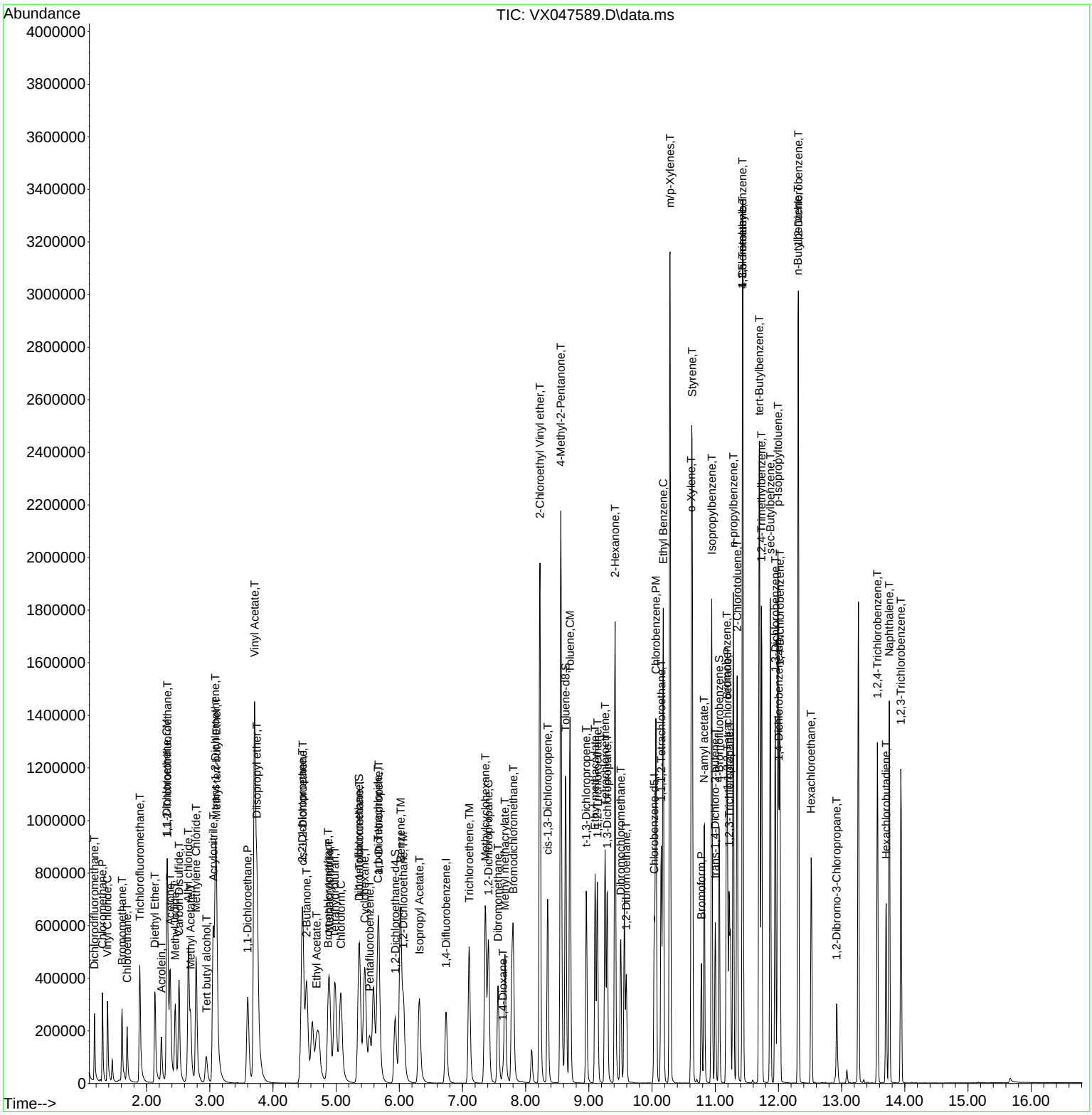
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

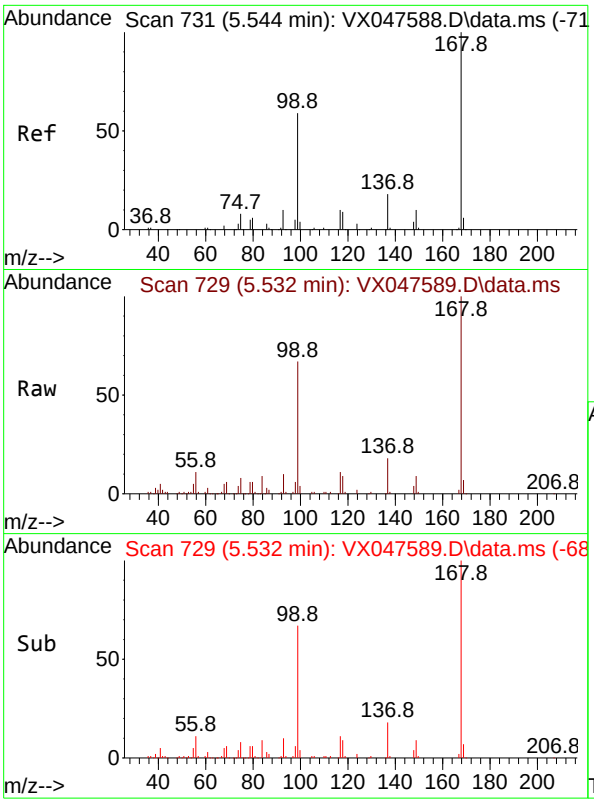
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Sep 22 01:51:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



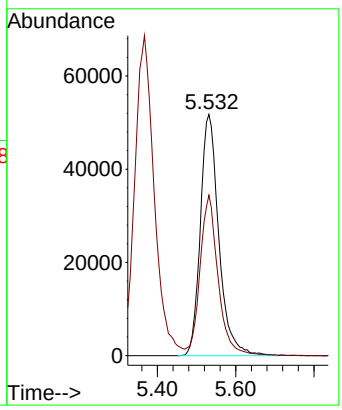


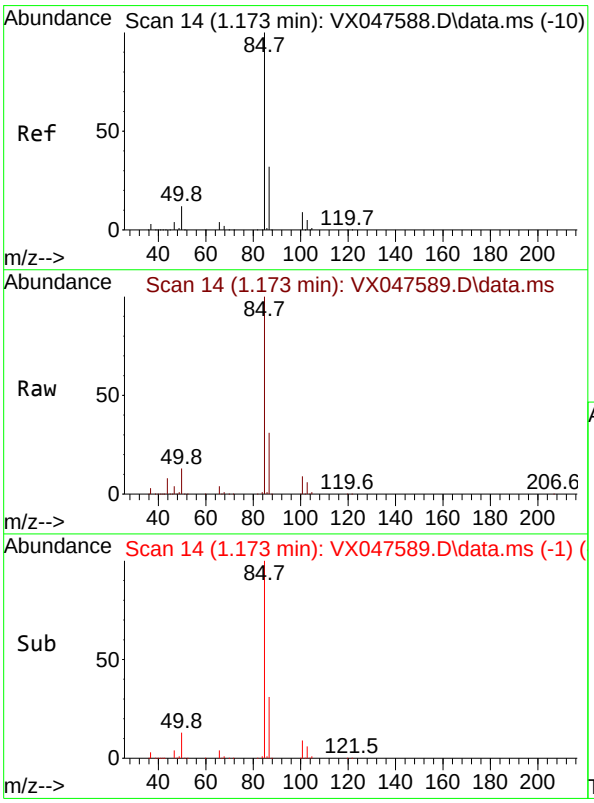
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 169280

Ion	Ratio	Lower	Upper
168	100		
99	66.4	48.8	73.2

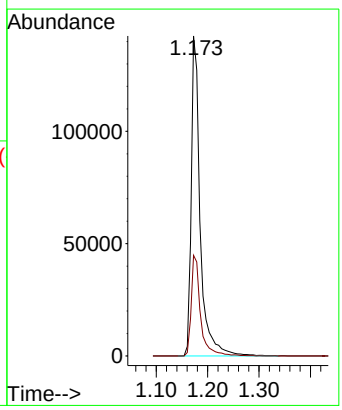


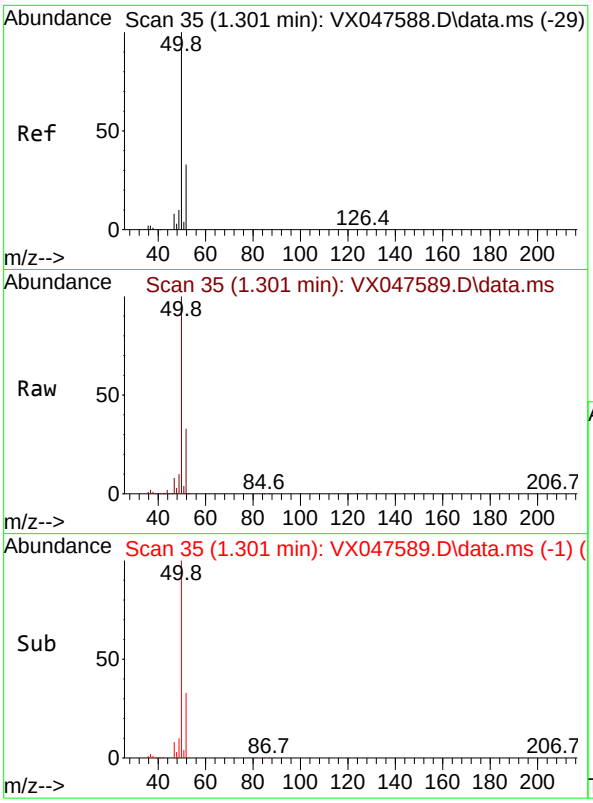


#2
Dichlorodifluoromethane
Concen: 98.537 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 85 Resp: 172727

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.8	47.3



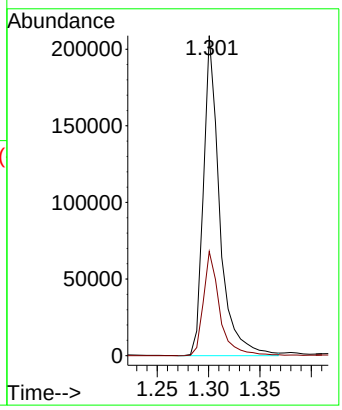


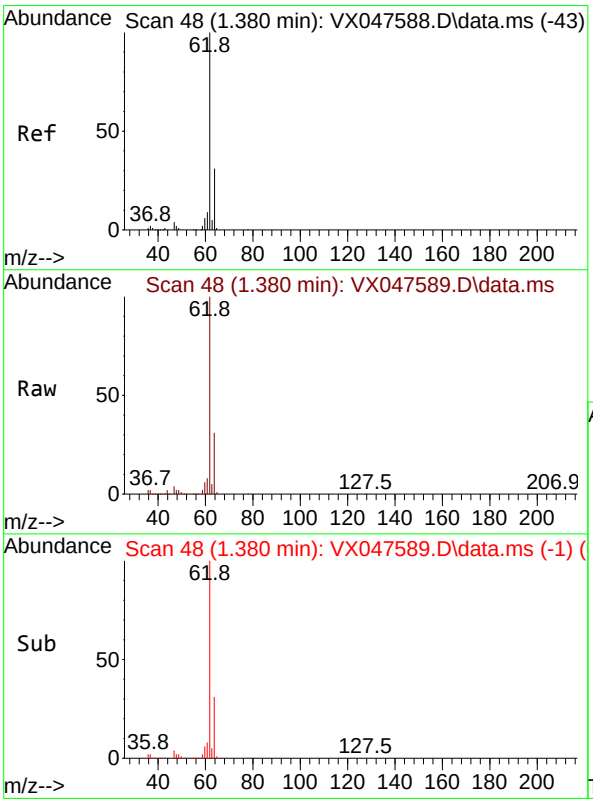
#3
Chloromethane
Concen: 99.472 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 229165

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.1	39.1

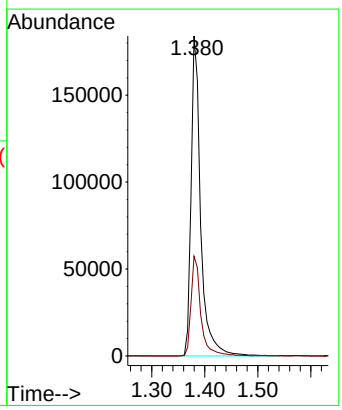


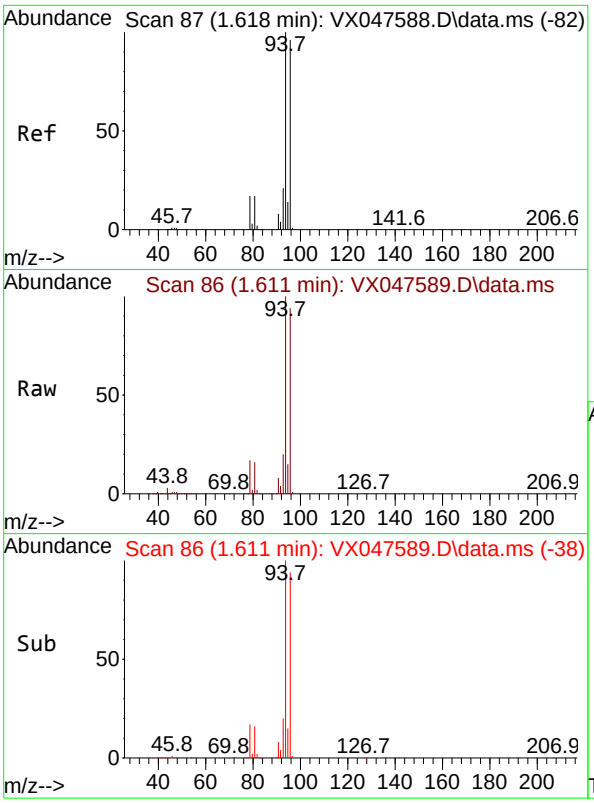


#4
Vinyl Chloride
Concen: 101.621 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 229175

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3



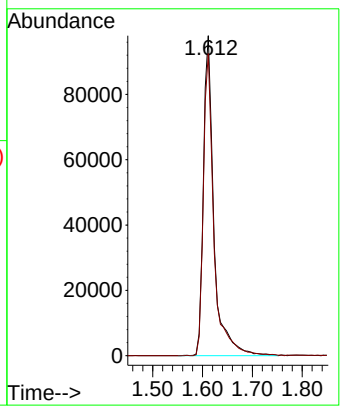


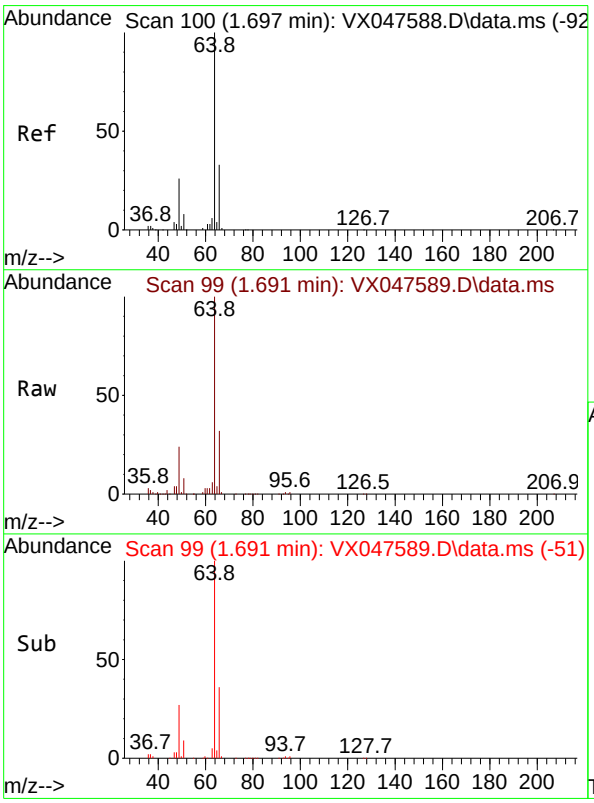
#5
Bromomethane
Concen: 100.076 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 143113

Ion	Ratio	Lower	Upper
94	100		
96	94.4	76.6	115.0

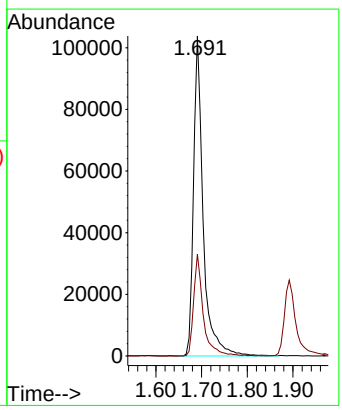


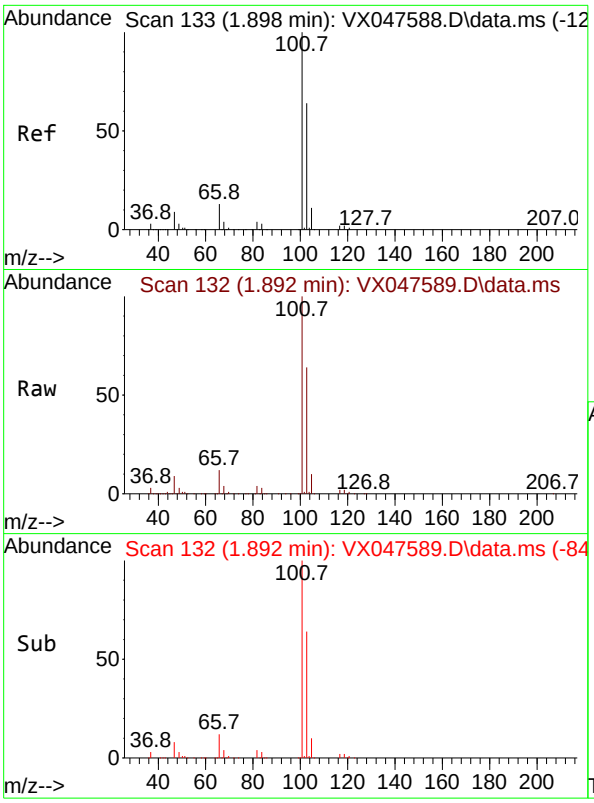


#6
Chloroethane
Concen: 101.167 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 64 Resp: 152487

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.1	39.1



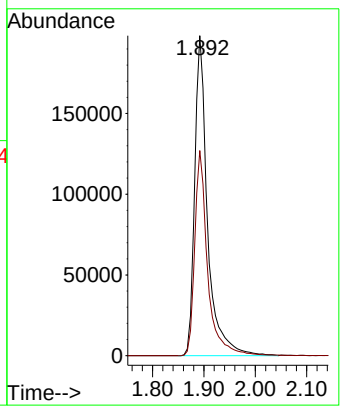


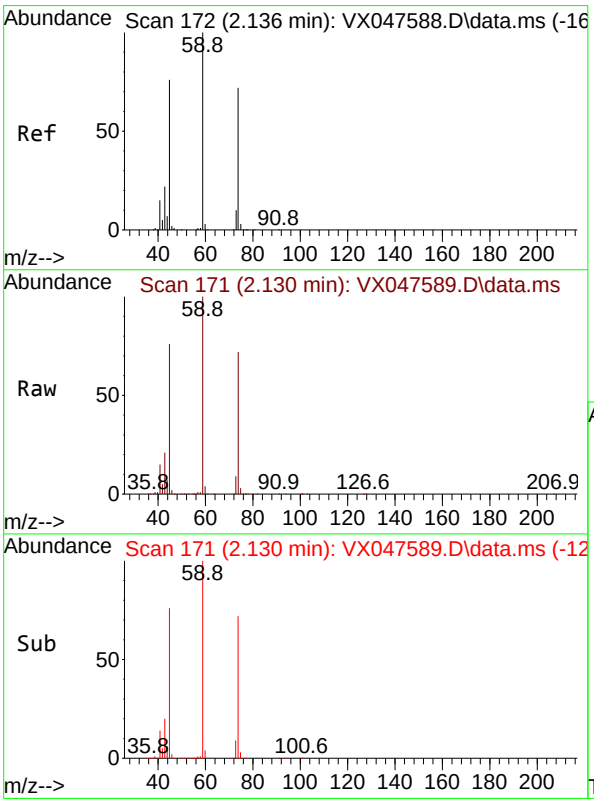
#7
Trichlorofluoromethane
Concen: 102.878 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 344488

Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.4	77.2

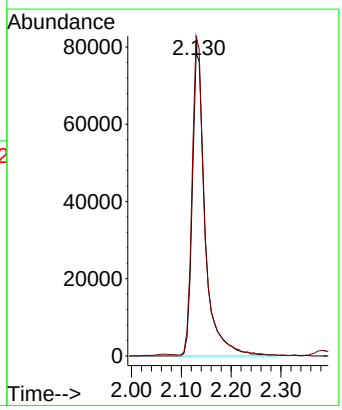


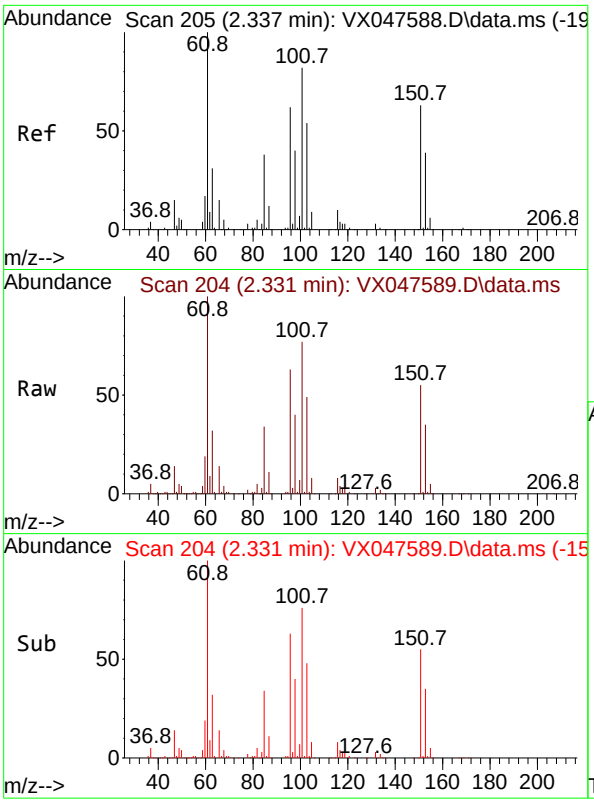


#8
Diethyl Ether
Concen: 103.695 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 74 Resp: 142038

Ion	Ratio	Lower	Upper
74	100		
45	104.6	52.3	156.8



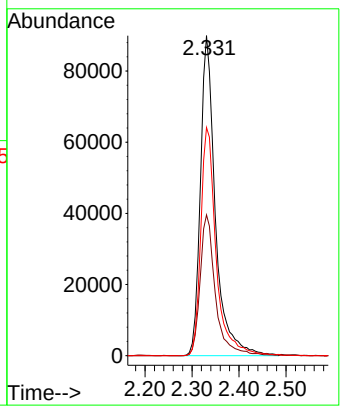


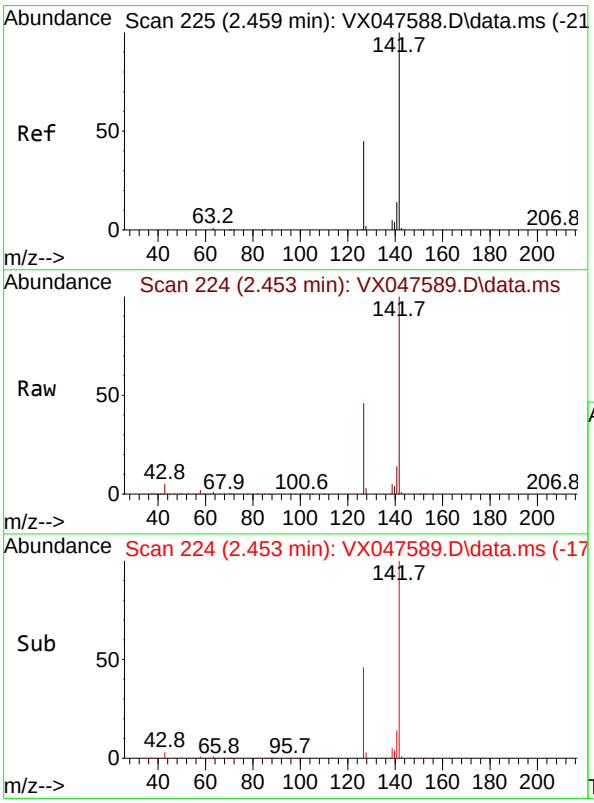
#9
1,1,2-Trichlorotrifluoroethane
Concen: 102.067 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 199843

Ion	Ratio	Lower	Upper
101	100		
85	45.1	35.5	53.3
151	73.6	59.4	89.0

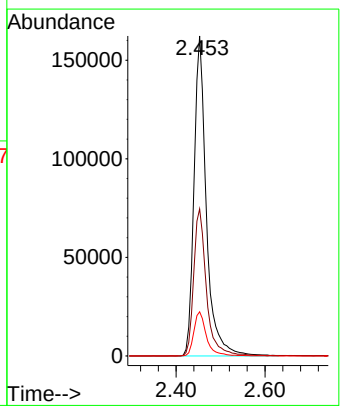


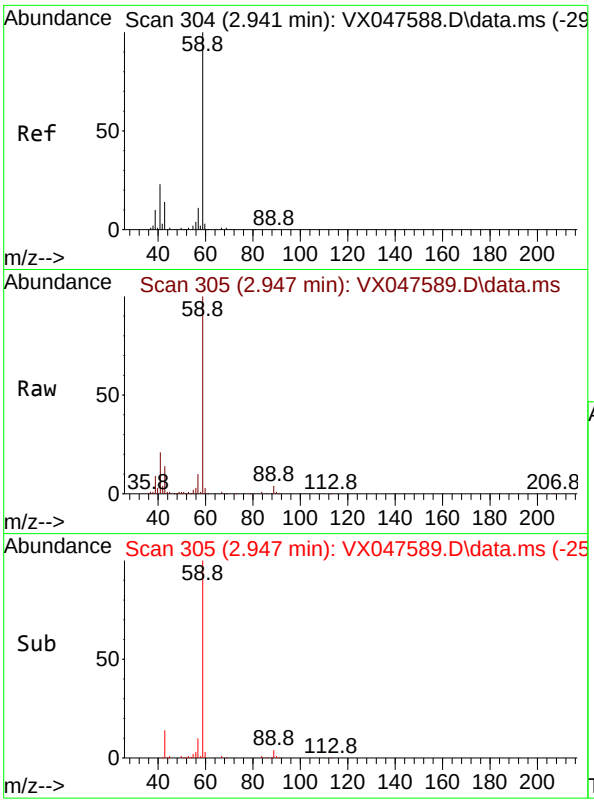


#10
Methyl Iodide
Concen: 102.531 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:142 Resp: 313092

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.1	11.4	17.0



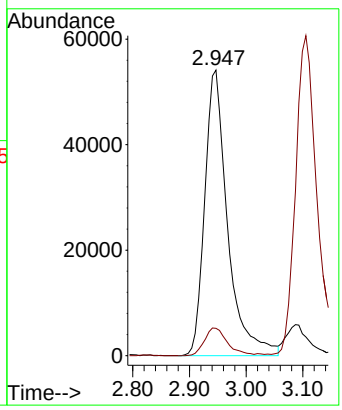


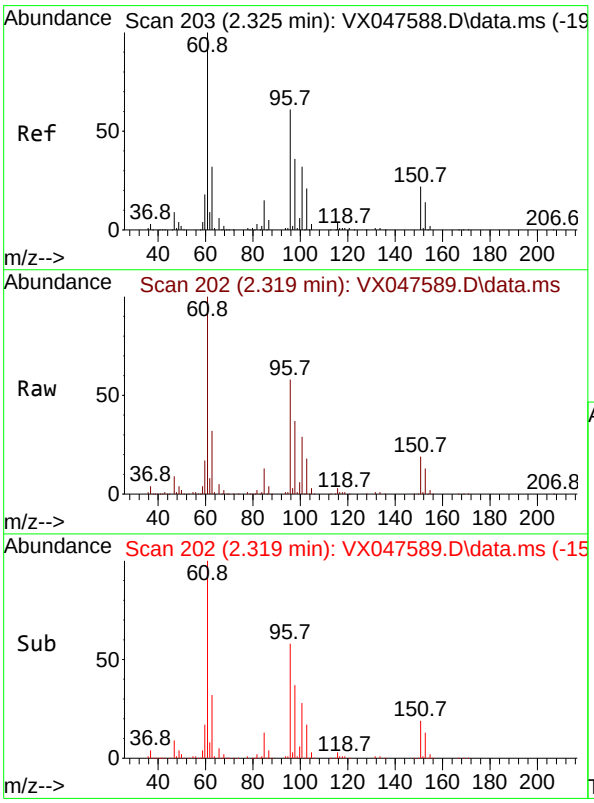
#11
Tert butyl alcohol
Concen: 506.863 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 152108

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.3	12.5

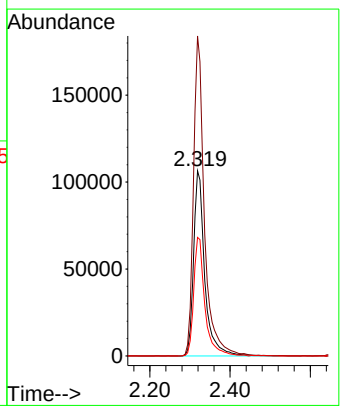


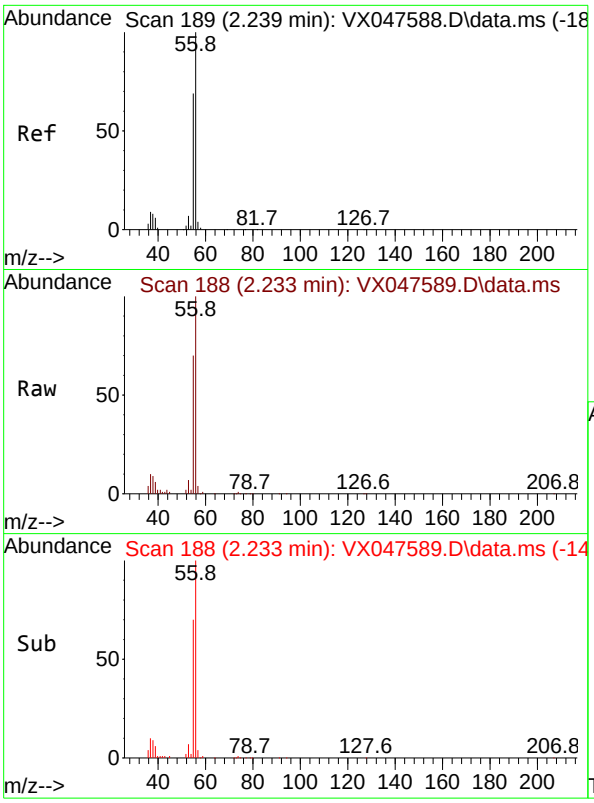


#12
1,1-Dichloroethene
Concen: 102.473 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 206097

Ion	Ratio	Lower	Upper
96	100		
61	172.9	131.0	196.6
98	64.0	47.7	71.5



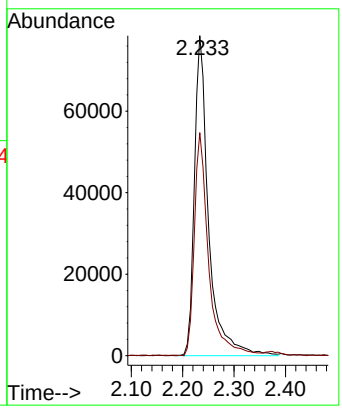


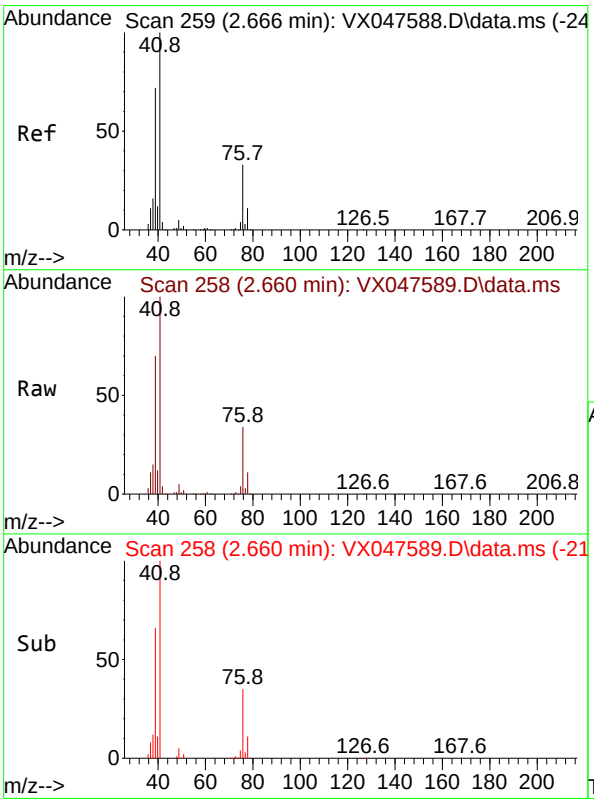
#13
Acrolein
Concen: 545.276 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 150793

Ion	Ratio	Lower	Upper
56	100		
55	69.4	57.2	85.8

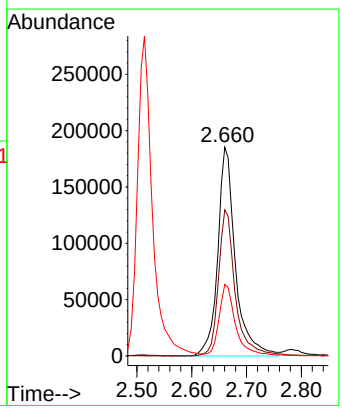


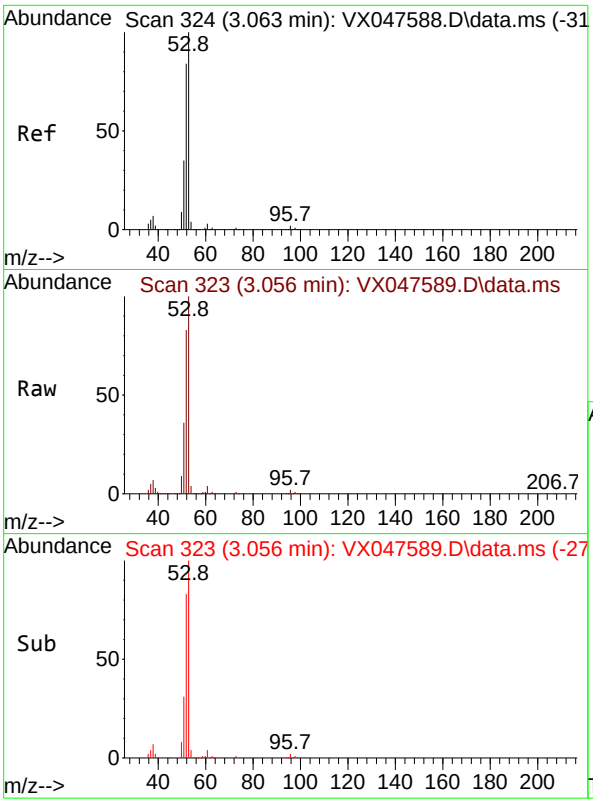


#14
Allyl chloride
Concen: 100.028 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 415140

Ion	Ratio	Lower	Upper
41	100		
39	67.0	54.7	82.1
76	32.2	25.7	38.5



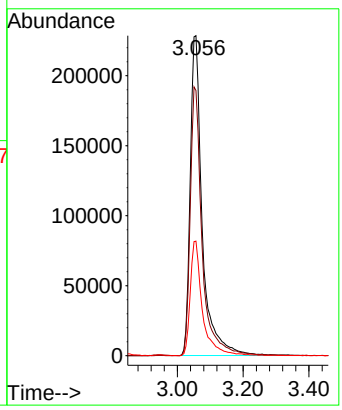


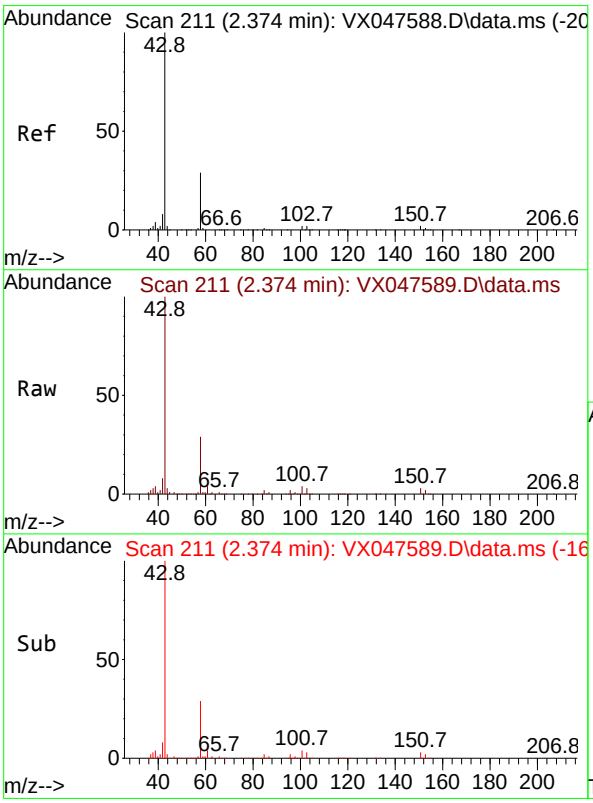
#15
Acrylonitrile
Concen: 522.897 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 581240

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.4	99.6
51	36.4	29.5	44.3

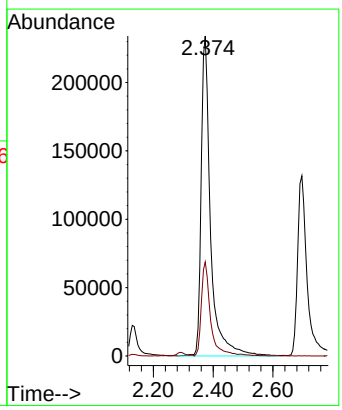


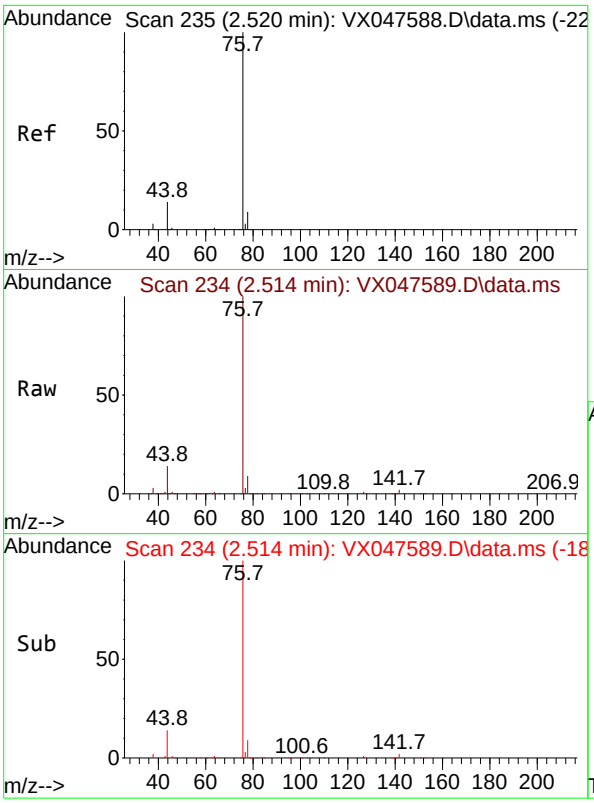


#16
Acetone
Concen: 435.772 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 510542

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0



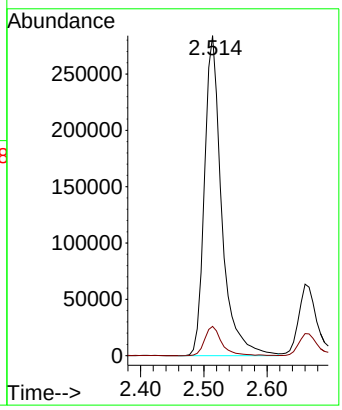


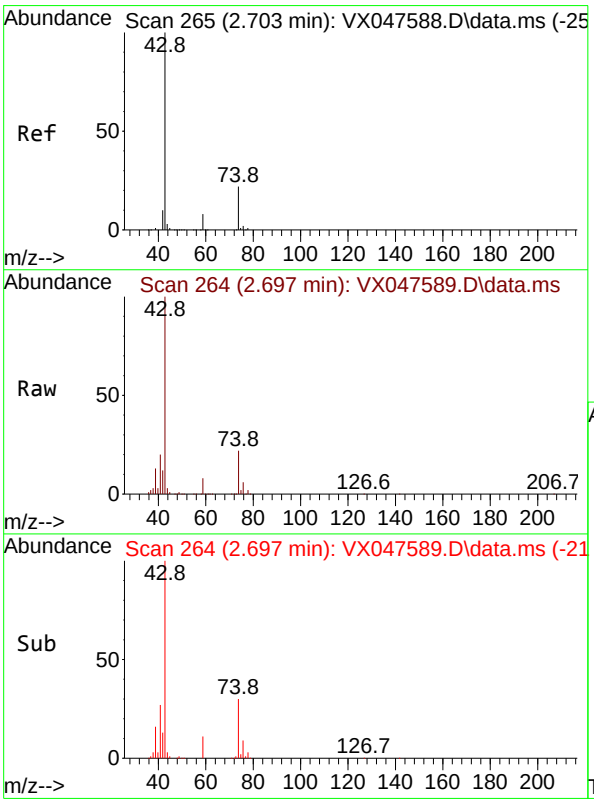
#17
Carbon Disulfide
Concen: 97.693 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 537888

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2

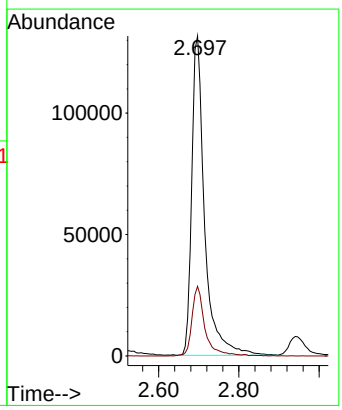


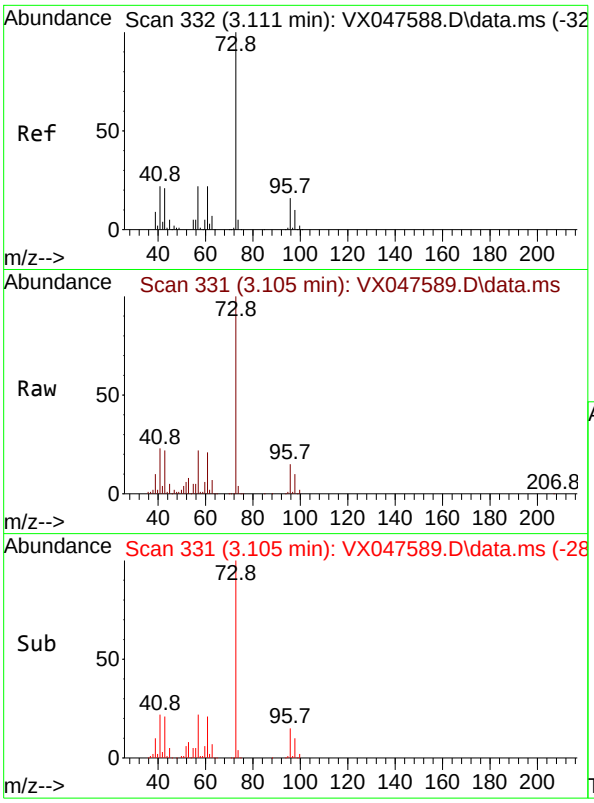


#18
Methyl Acetate
Concen: 112.324 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 292867

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2



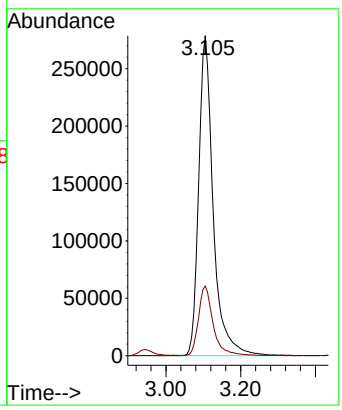


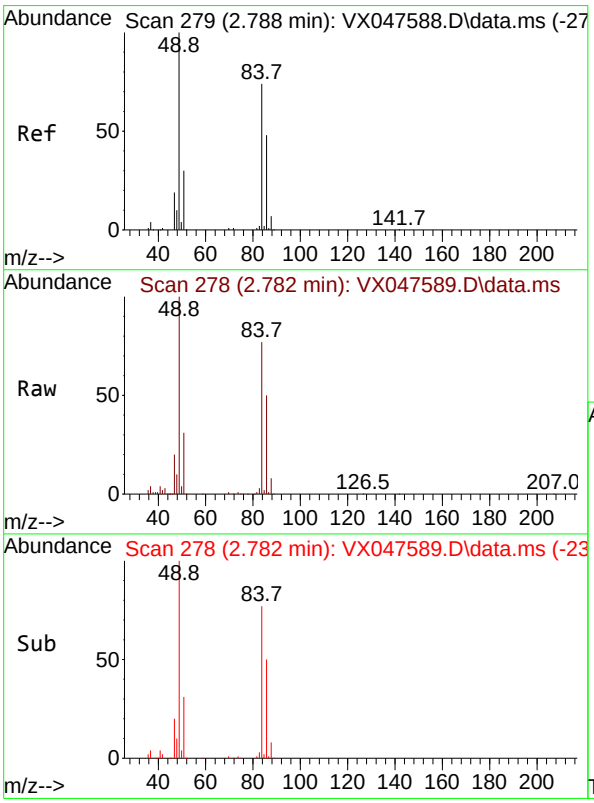
#19
Methyl tert-butyl Ether
Concen: 102.011 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 748952

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2

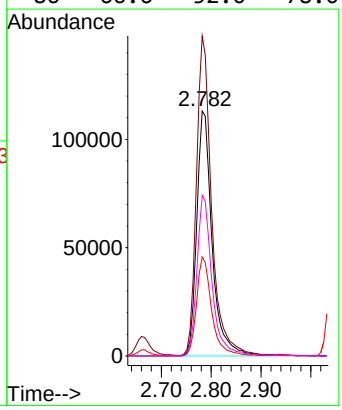


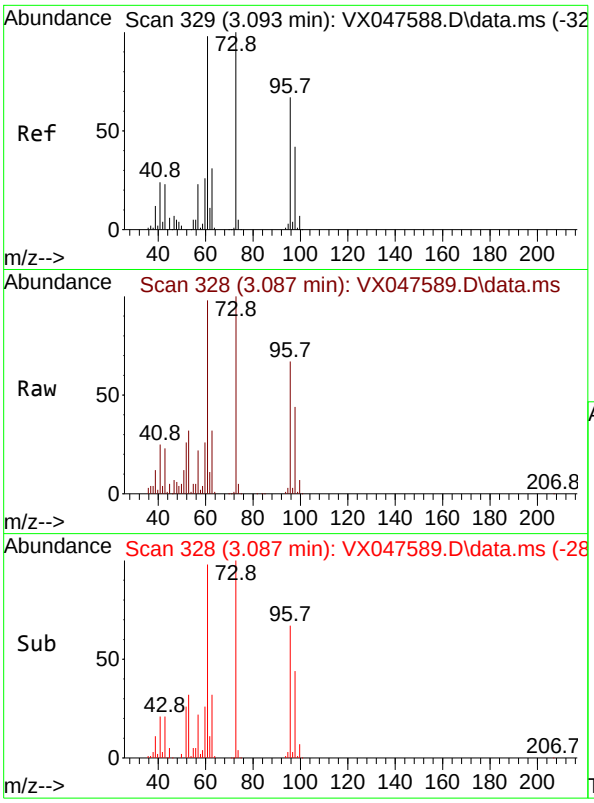


#20
Methylene Chloride
Concen: 97.805 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 84 Resp: 242548

Ion	Ratio	Lower	Upper
84	100		
49	130.4	108.6	162.8
51	40.3	32.6	48.8
86	66.6	52.0	78.0



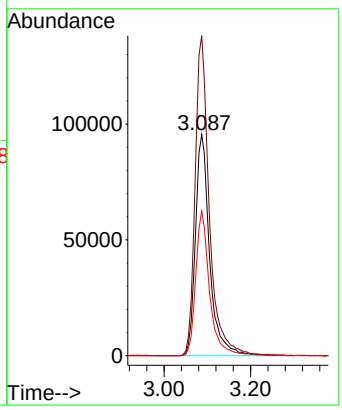


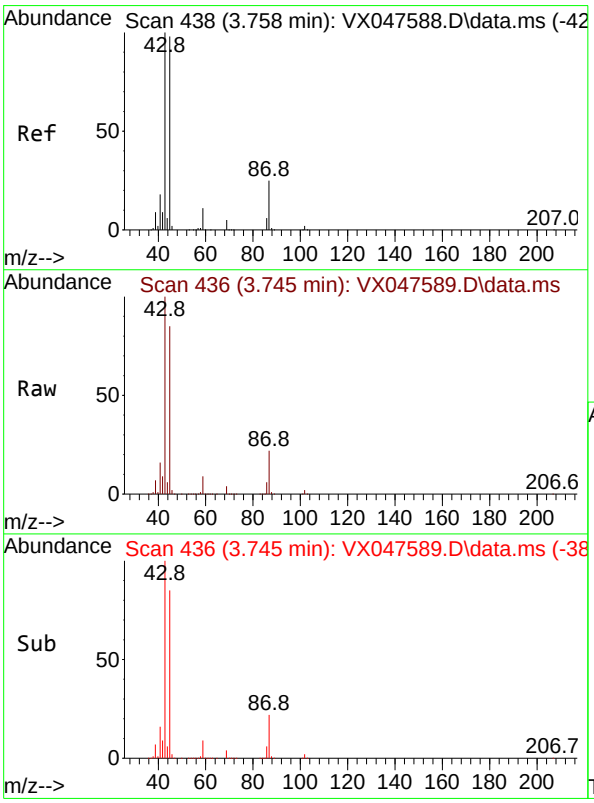
#21
trans-1,2-Dichloroethene
Concen: 100.566 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 217759

Ion	Ratio	Lower	Upper
96	100		
61	144.7	116.2	174.2
98	65.4	49.3	73.9

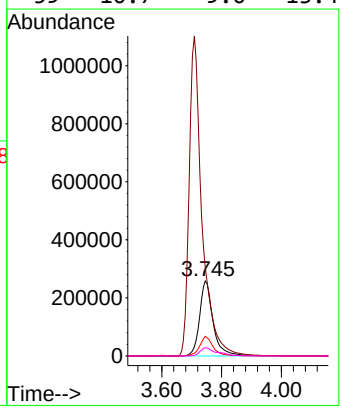


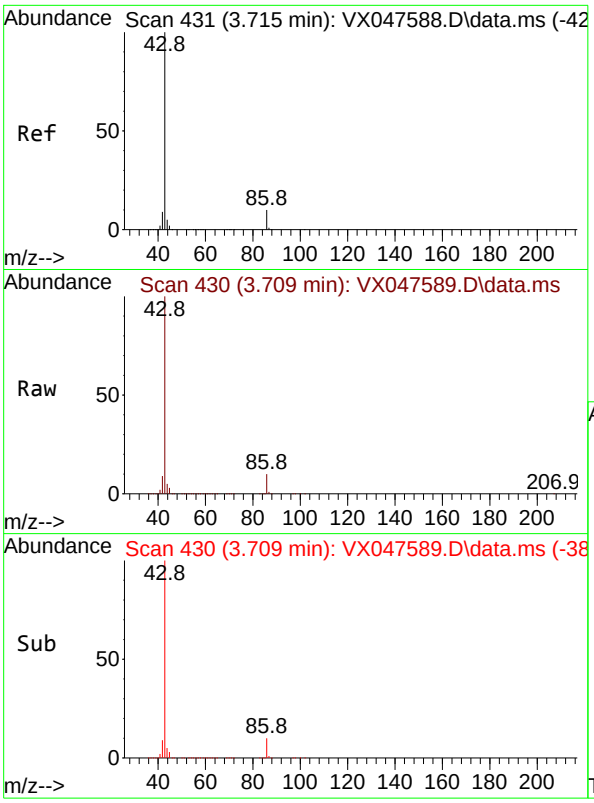


#22
Diisopropyl ether
Concen: 100.934 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 45 Resp: 811840

Ion	Ratio	Lower	Upper
45	100		
43	117.3	81.0	121.4
87	26.1	20.3	30.5
59	10.7	9.0	13.4



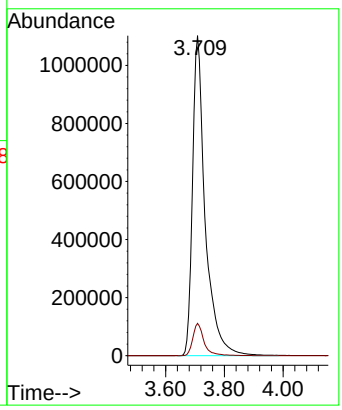


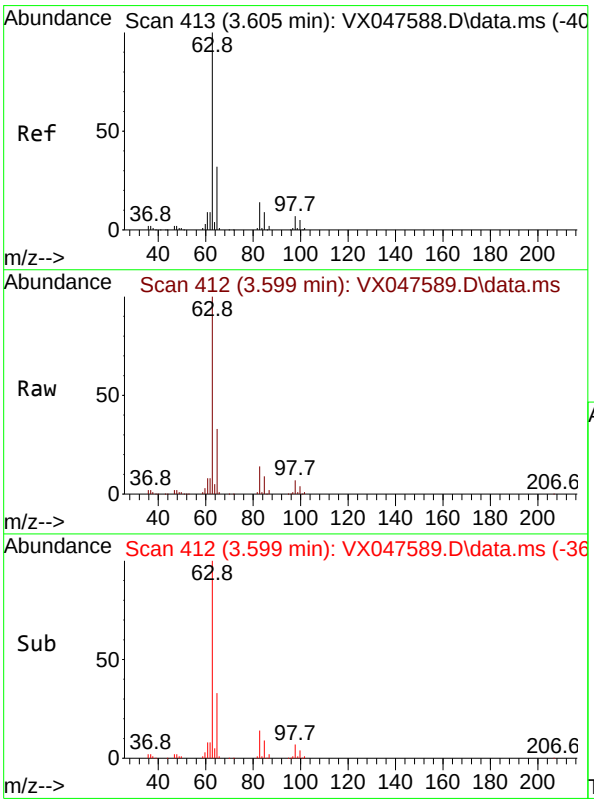
#23
Vinyl Acetate
Concen: 514.916 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 3314707

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8

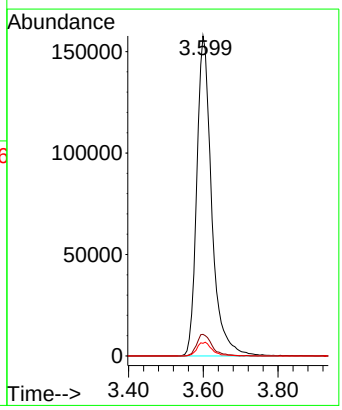


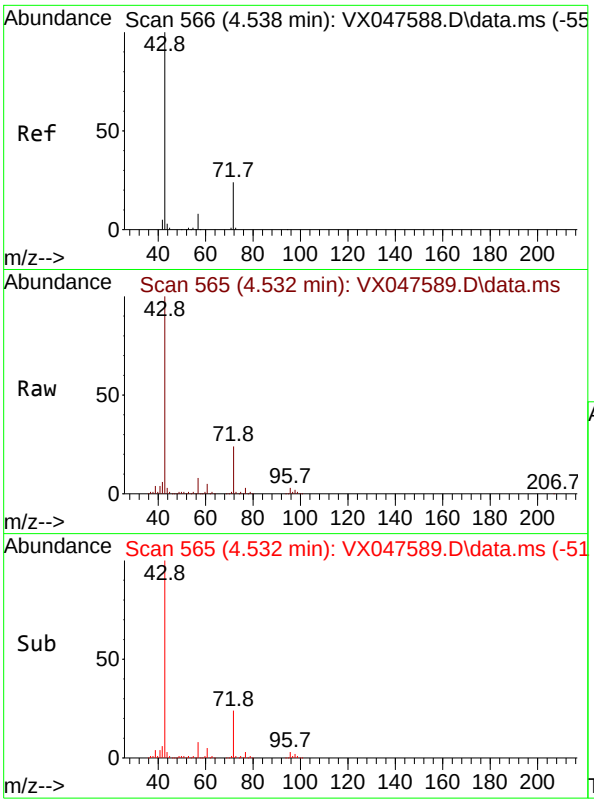


#24
1,1-Dichloroethane
Concen: 101.944 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 435815

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.0	2.3	6.9



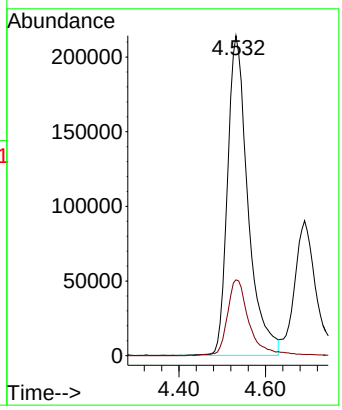


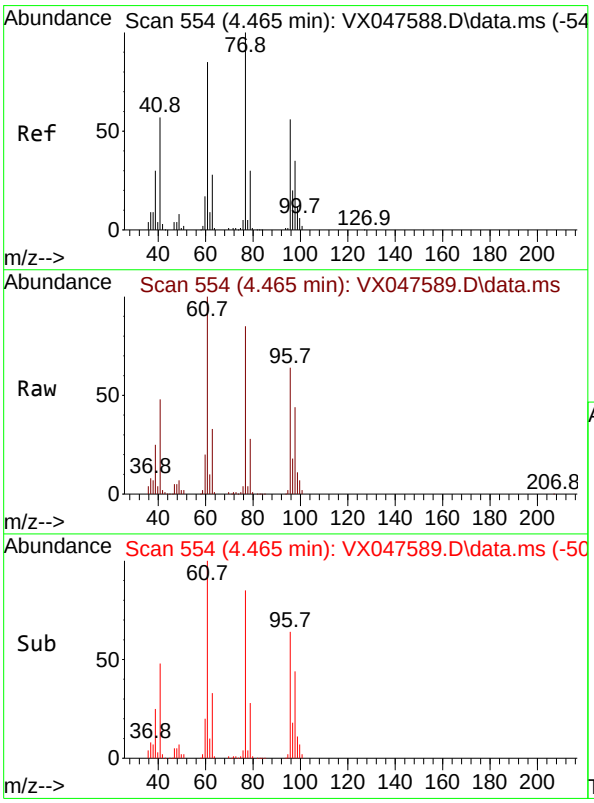
#25
2-Butanone
Concen: 479.558 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 700827

Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.1	30.1

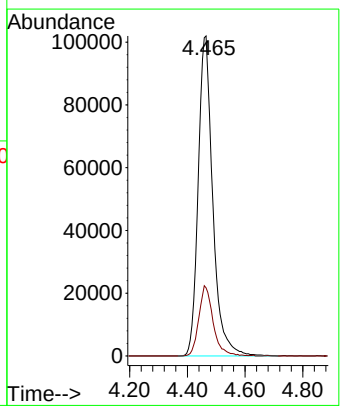


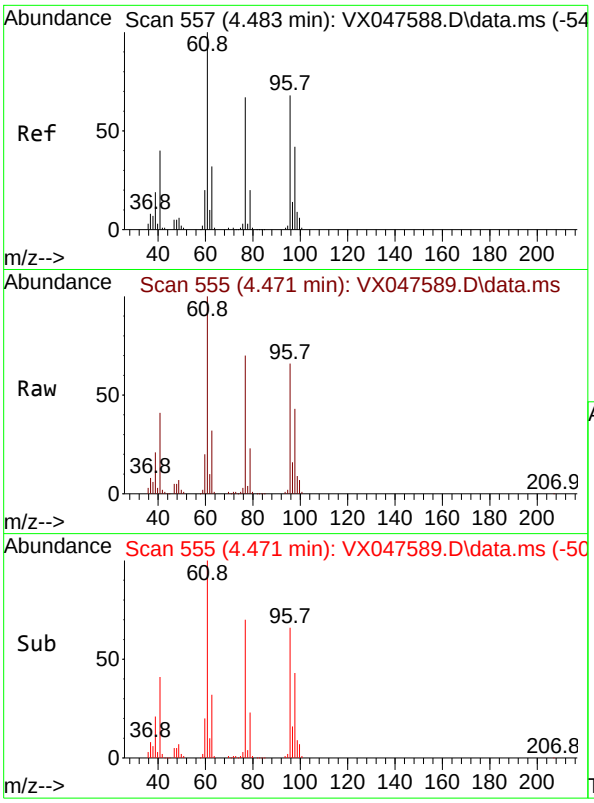


#26
2,2-Dichloropropane
Concen: 100.542 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 77 Resp: 357292

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.9	32.7



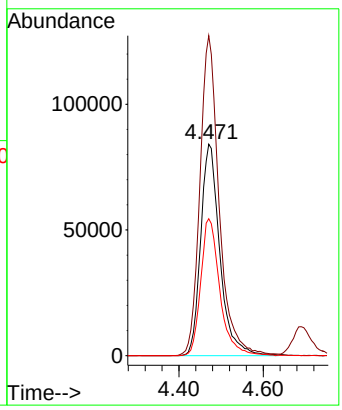


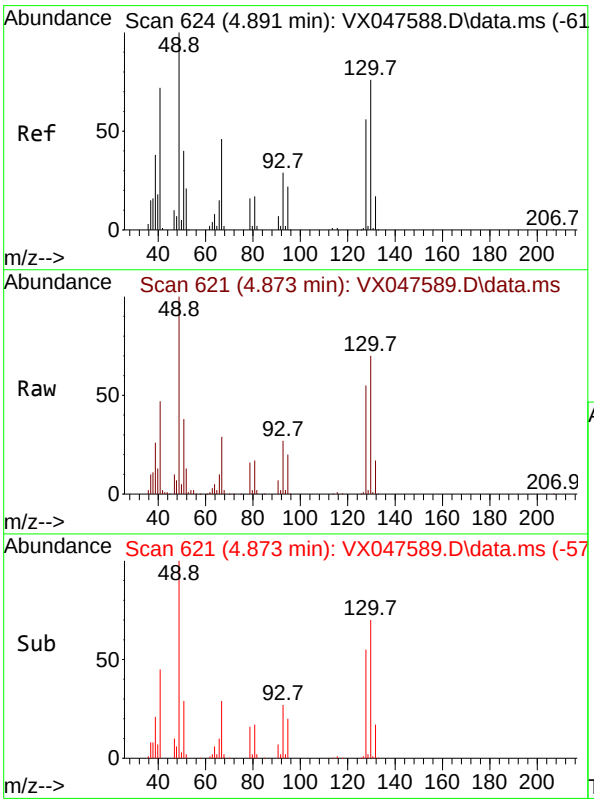
#27
cis-1,2-Dichloroethene
Concen: 100.516 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 266550

Ion	Ratio	Lower	Upper
96	100		
61	151.5	0.0	303.2
98	64.4	0.0	127.8

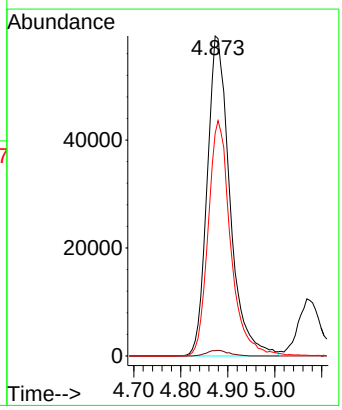


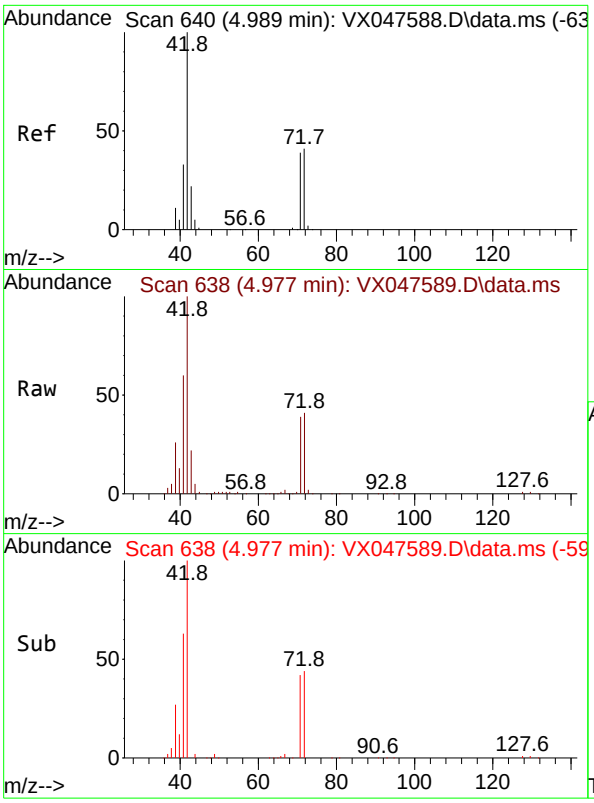


#28
Bromochloromethane
Concen: 106.512 ug/l
RT: 4.873 min Scan# 621
Delta R.T. -0.018 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 49 Resp: 198788

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	72.8	57.8	86.8



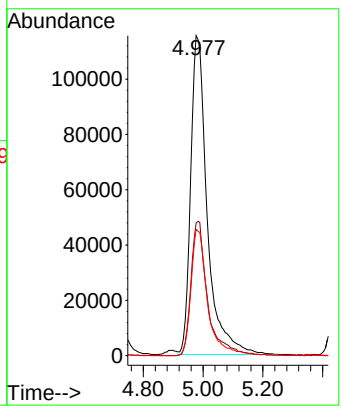


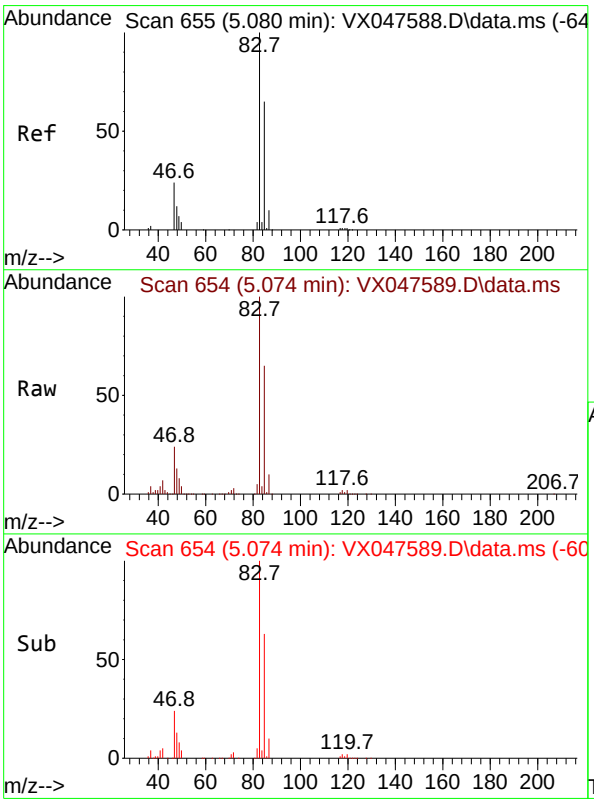
#29
Tetrahydrofuran
Concen: 504.502 ug/l
RT: 4.977 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 443530

Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.2	51.2
71	39.5	31.9	47.9

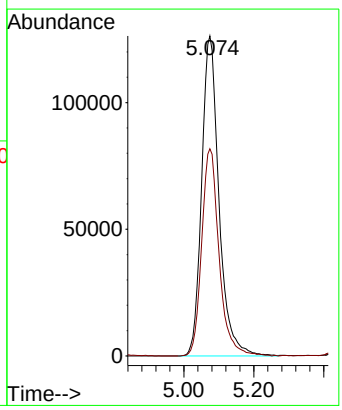


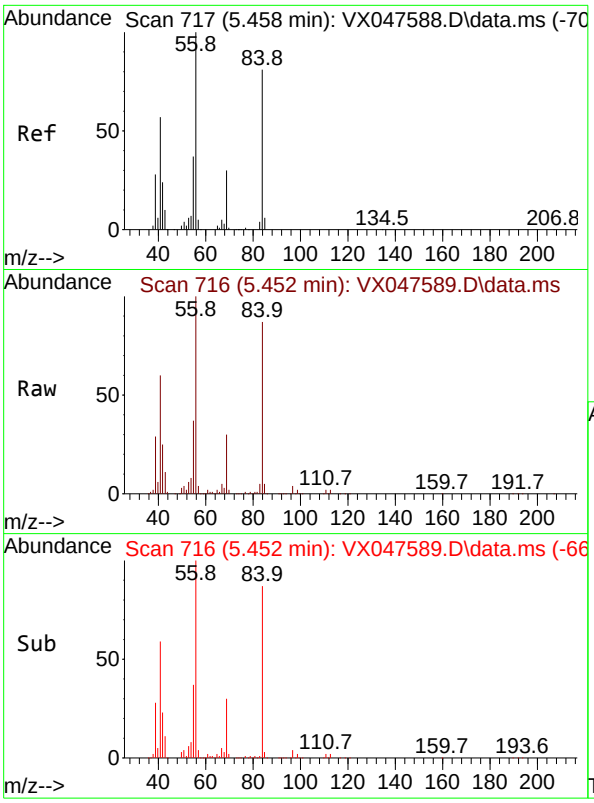


#30
Chloroform
Concen: 100.447 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 433937

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.6



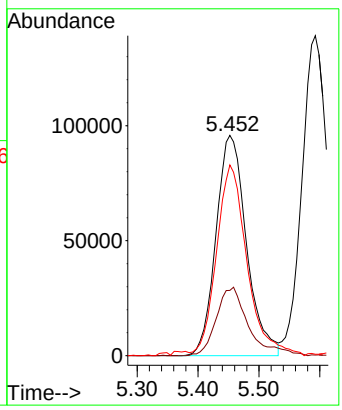


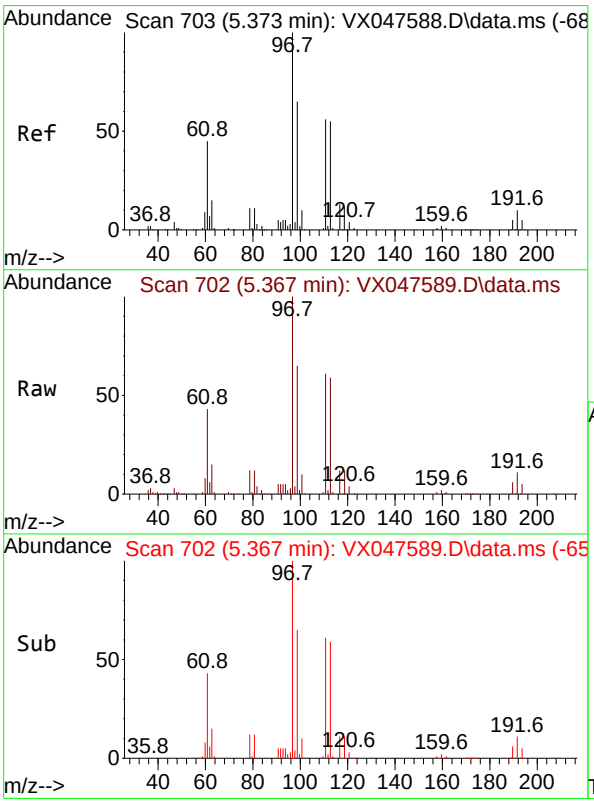
#31
Cyclohexane
Concen: 93.523 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 332995

Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.8	35.8
84	84.7	64.6	97.0

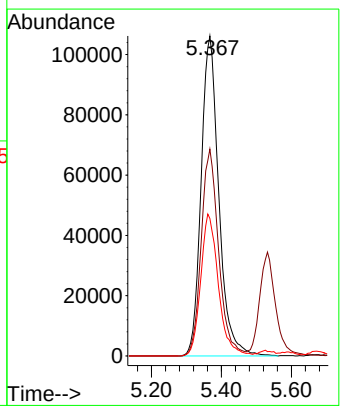


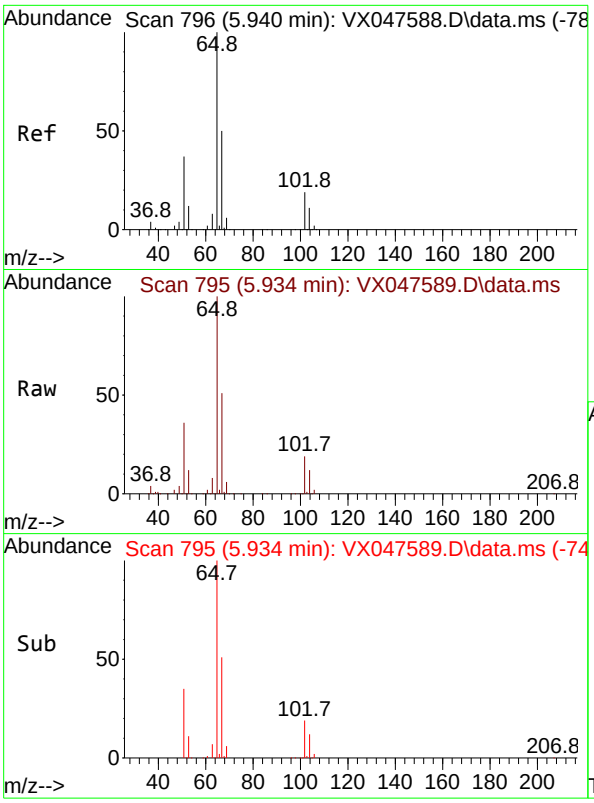


#32
1,1,1-Trichloroethane
Concen: 101.607 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 372323

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	44.4	35.8	53.8



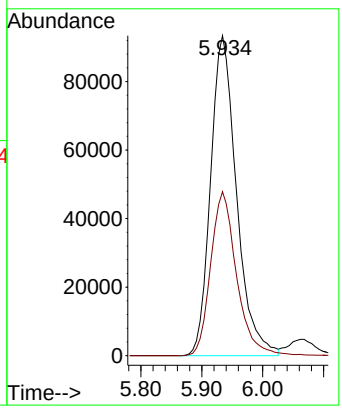


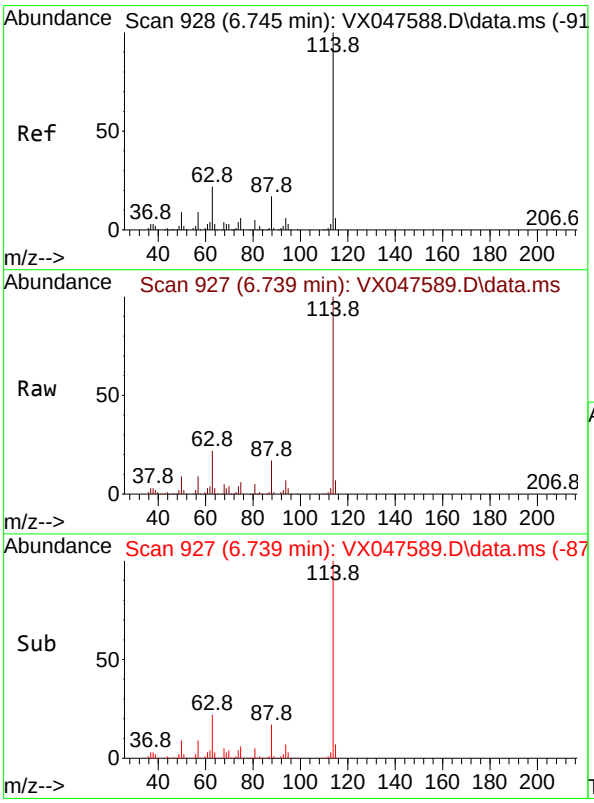
#33
1,2-Dichloroethane-d4
Concen: 102.341 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 275758

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.0

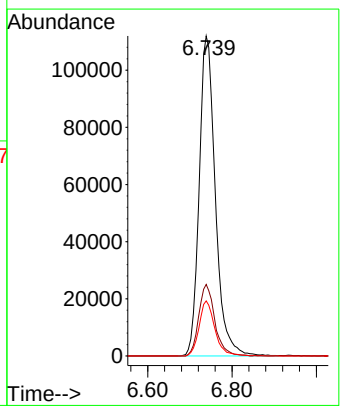


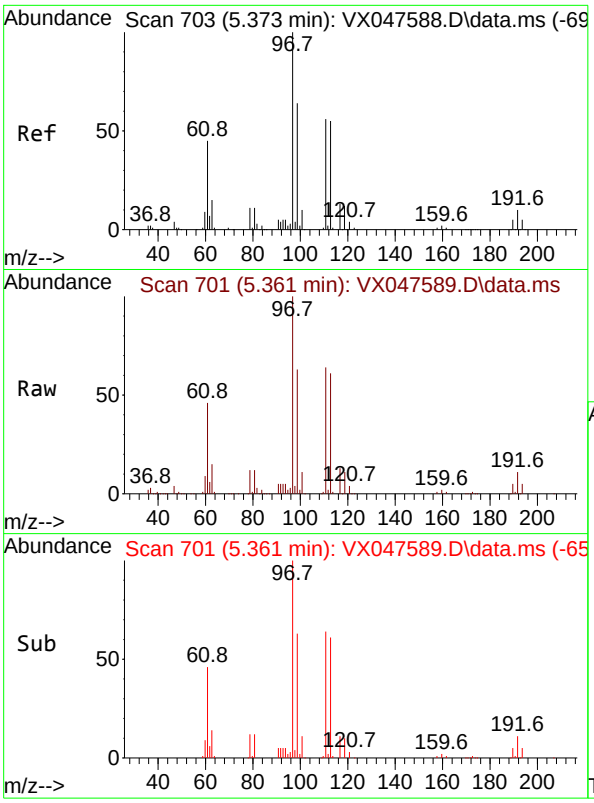


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:114 Resp: 298913

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	17.2	0.0	34.2



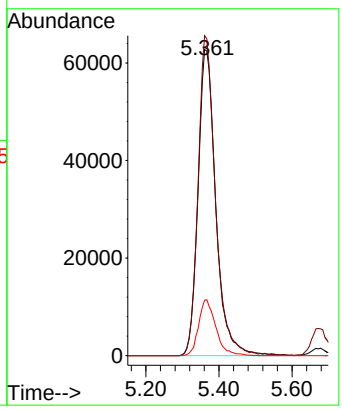


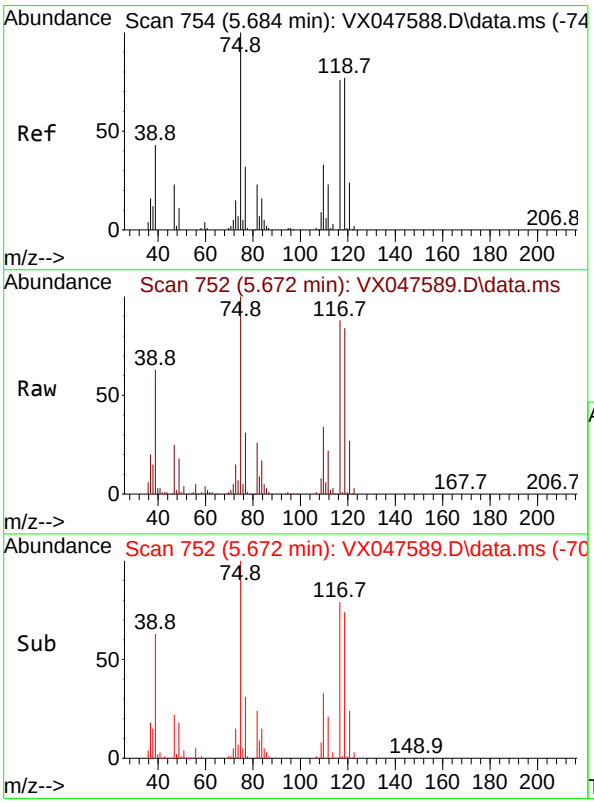
#35
Dibromofluoromethane
Concen: 105.962 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 212419

Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.9	121.3
192	17.7	14.2	21.4

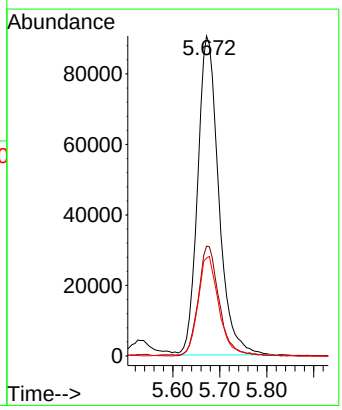


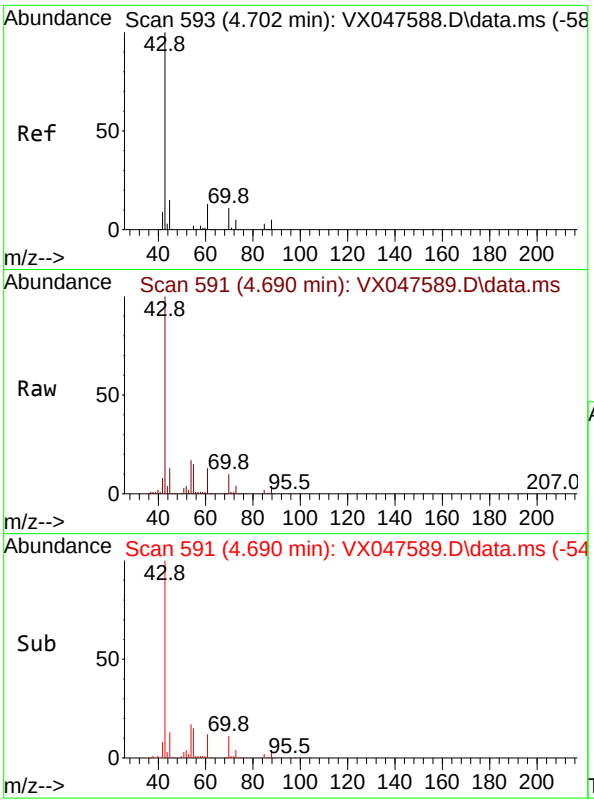


#36
1,1-Dichloropropene
Concen: 96.149 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 281650

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.7	50.1
77	31.3	24.3	36.5



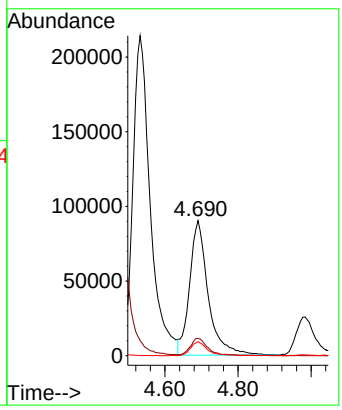


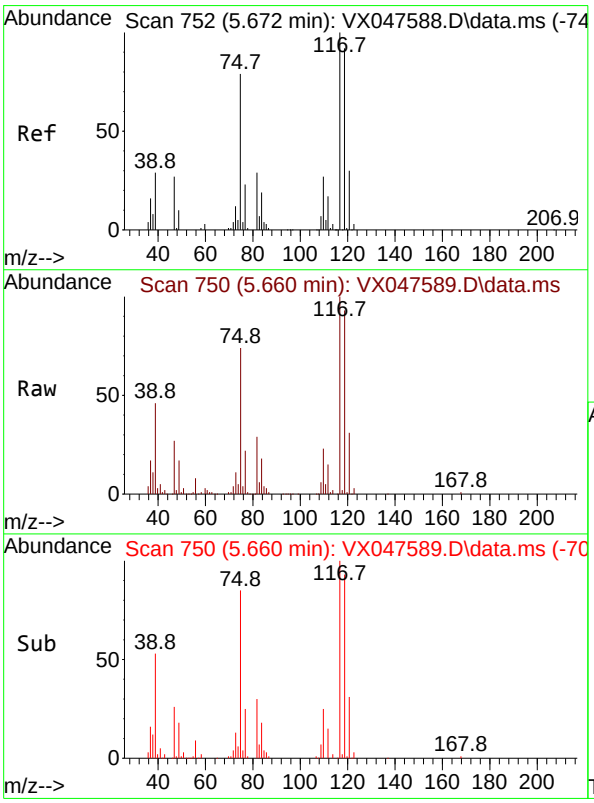
#37
Ethyl Acetate
Concen: 101.641 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 318793

Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.9	11.9

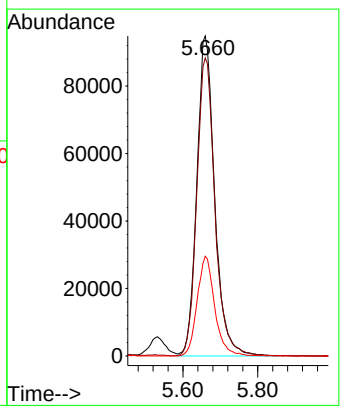


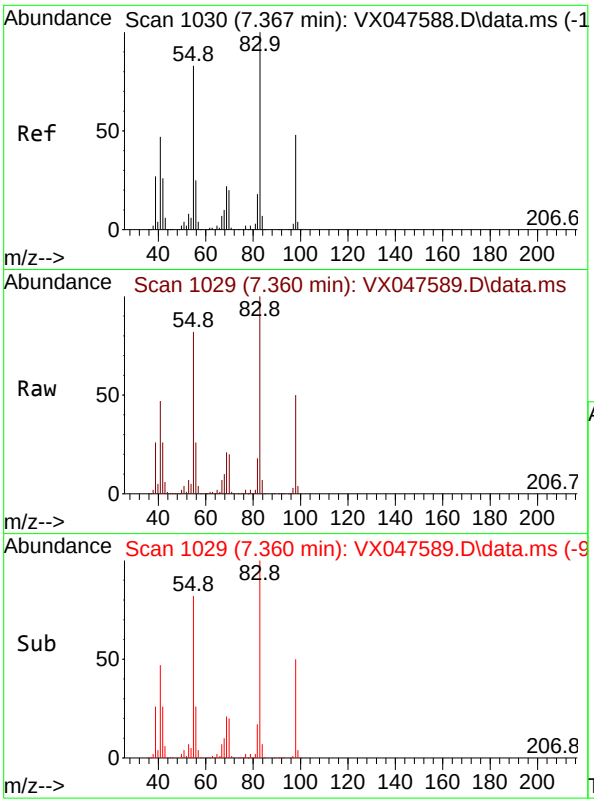


#38
Carbon Tetrachloride
Concen: 98.891 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 314745

Ion	Ratio	Lower	Upper
117	100		
119	93.0	73.4	110.2
121	31.2	23.8	35.6



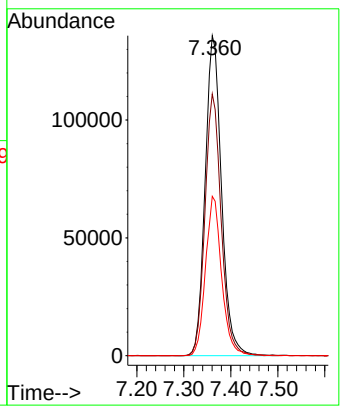


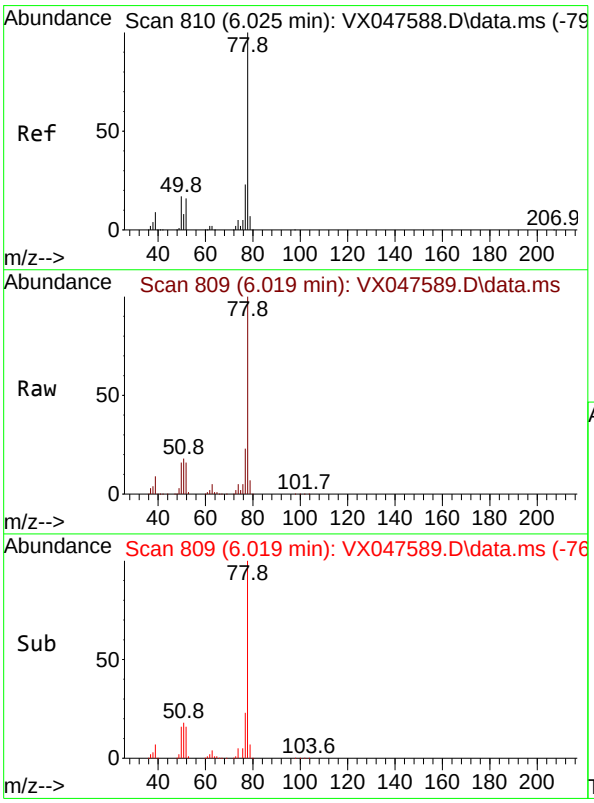
#39
Methylcyclohexane
Concen: 98.600 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 327858

Ion	Ratio	Lower	Upper
83	100		
55	81.8	66.4	99.6
98	49.8	38.1	57.1

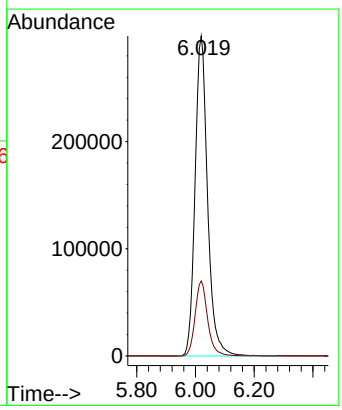


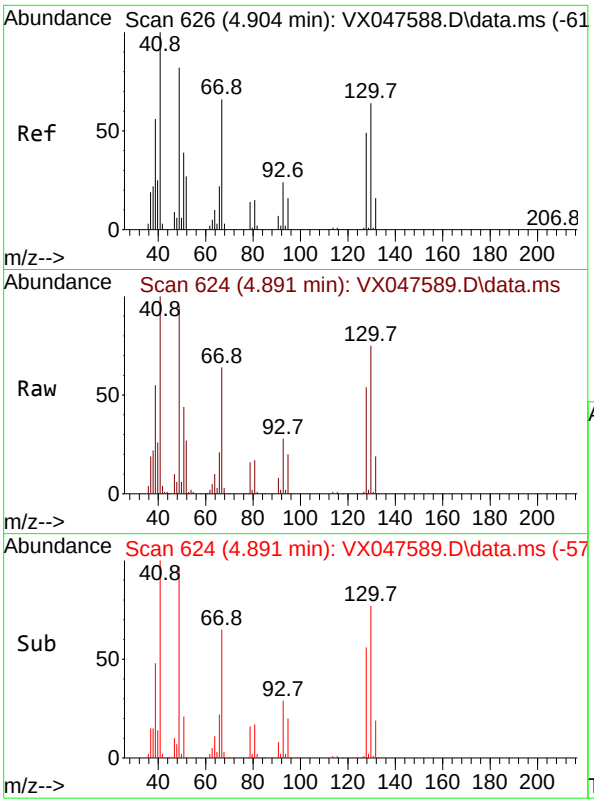


#40
Benzene
Concen: 99.009 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 78 Resp: 880885

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



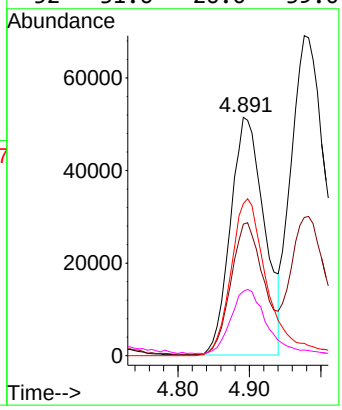


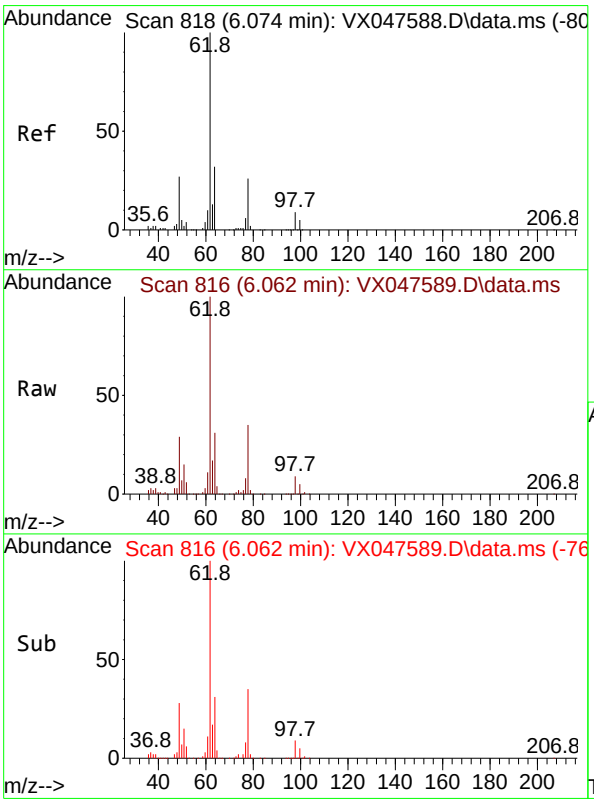
#41
Methacrylonitrile
Concen: 104.220 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 168753

Ion	Ratio	Lower	Upper
41	100		
39	54.6	43.3	64.9
67	72.1	58.6	87.8
52	31.6	26.0	39.0

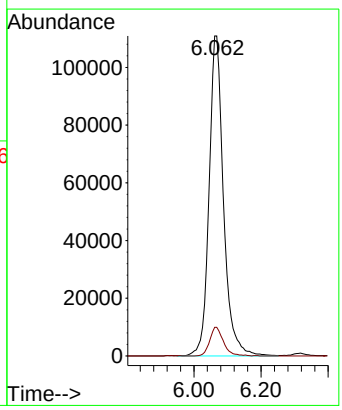


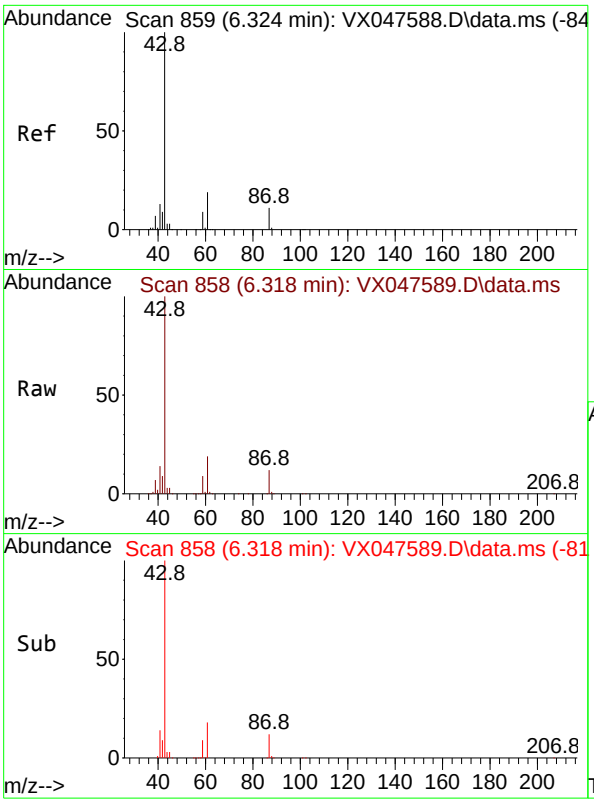


#42
1,2-Dichloroethane
Concen: 97.916 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 331465

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.0



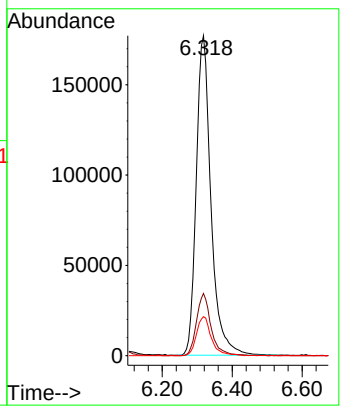


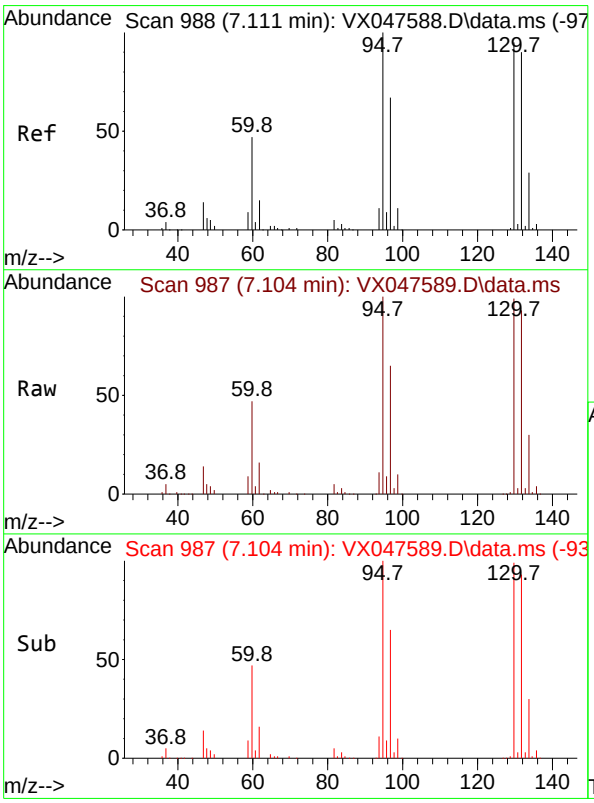
#43
Isopropyl Acetate
Concen: 100.482 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 516875

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.3	9.6	14.4

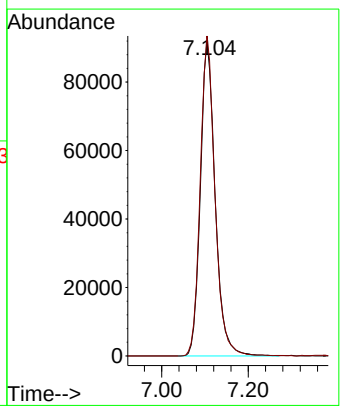


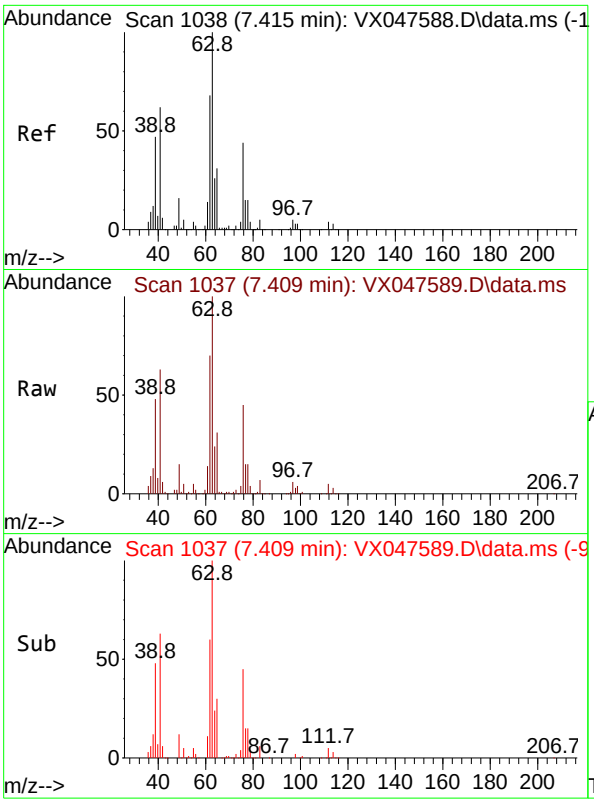


#44
Trichloroethene
Concen: 101.234 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:130 Resp: 217753

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	210.8



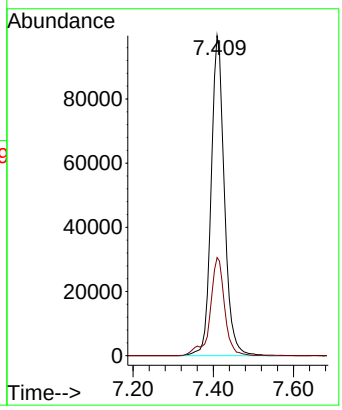


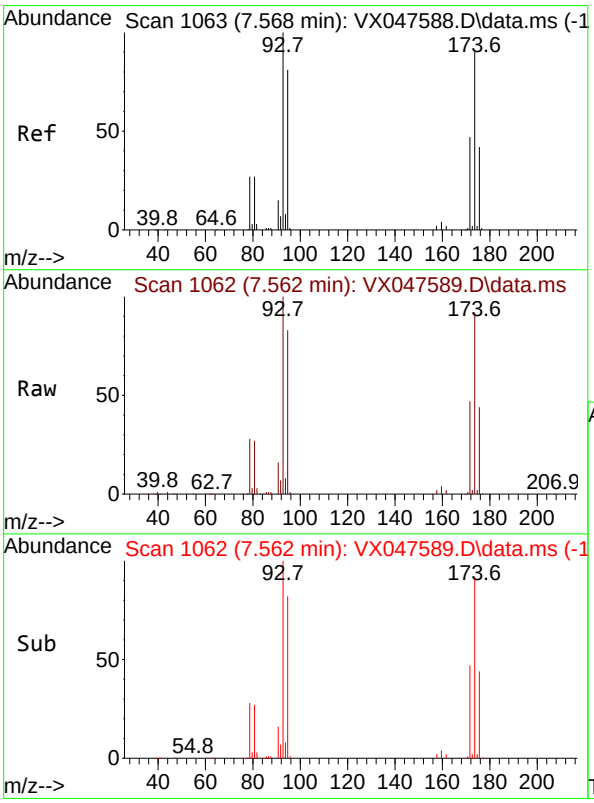
#45
1,2-Dichloropropane
Concen: 100.145 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 228150

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

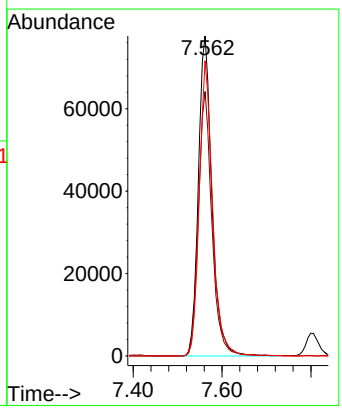


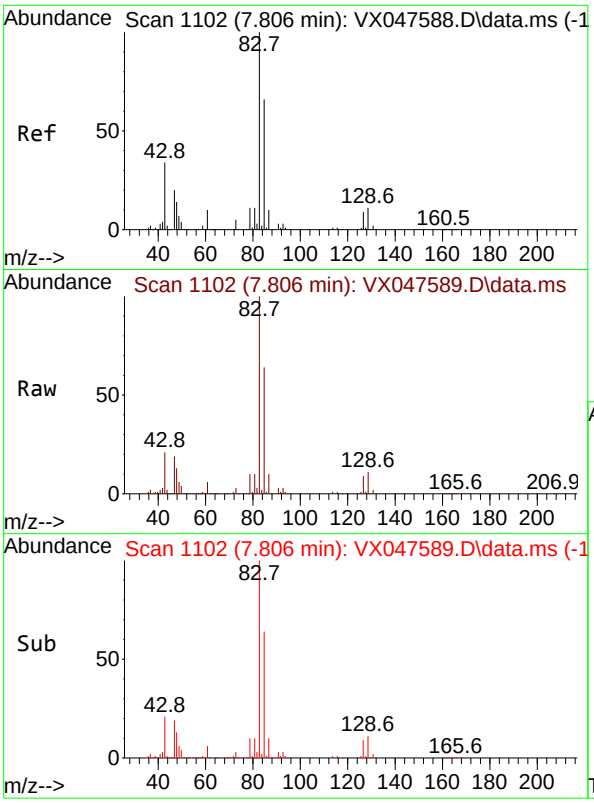


#46
Dibromomethane
Concen: 99.519 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 93 Resp: 164987

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.0	97.6
174	90.5	71.6	107.4



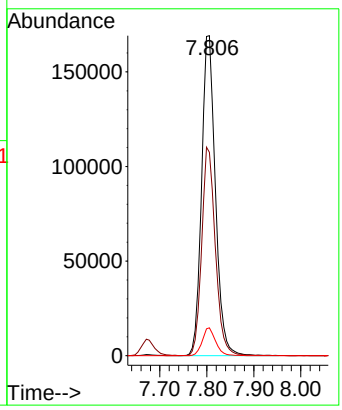


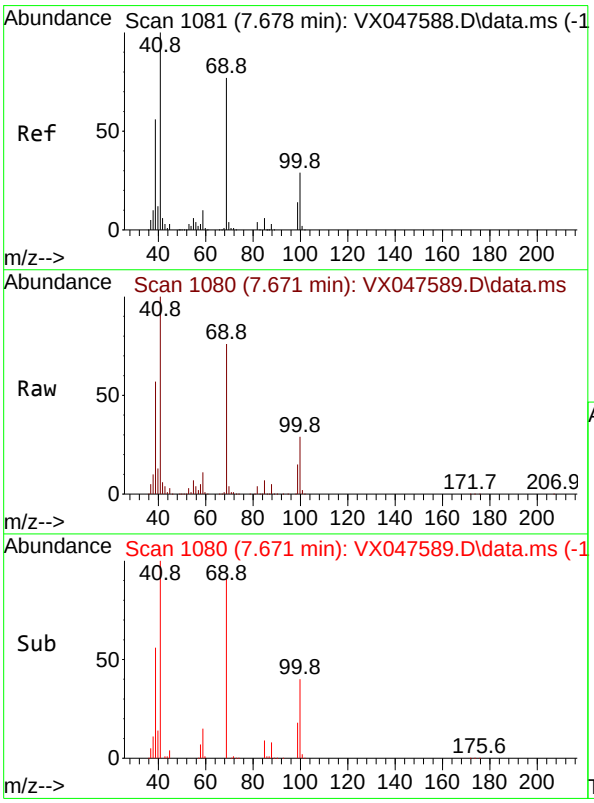
#47
Bromodichloromethane
Concen: 101.136 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 345991

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.7	6.9	10.3

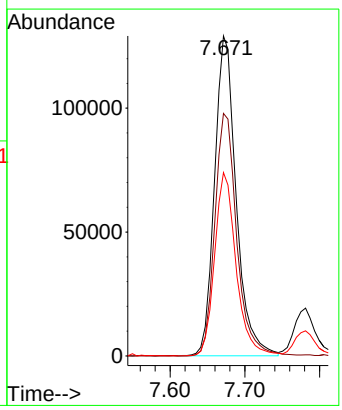


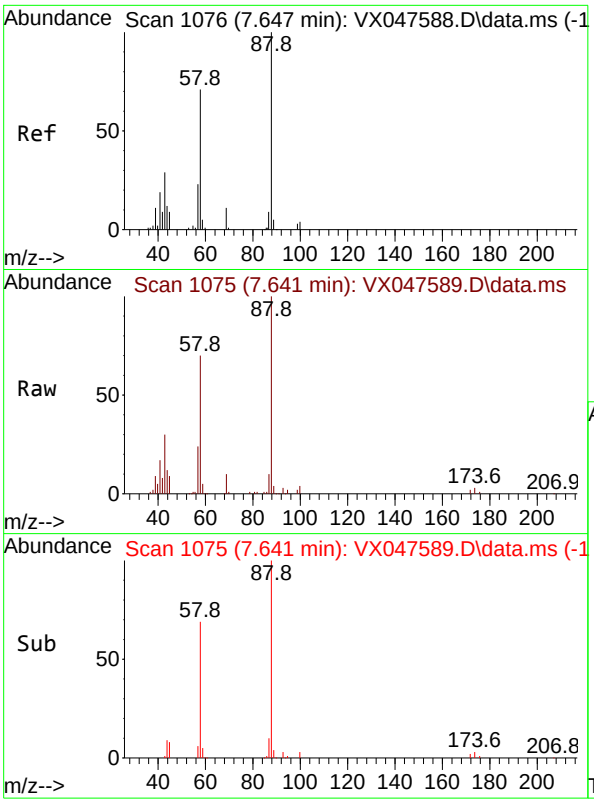


#48
Methyl methacrylate
Concen: 101.612 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 260358

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	57.0	45.8	68.6



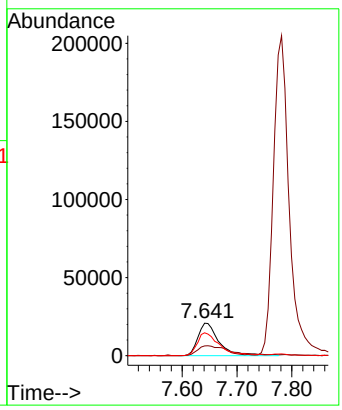


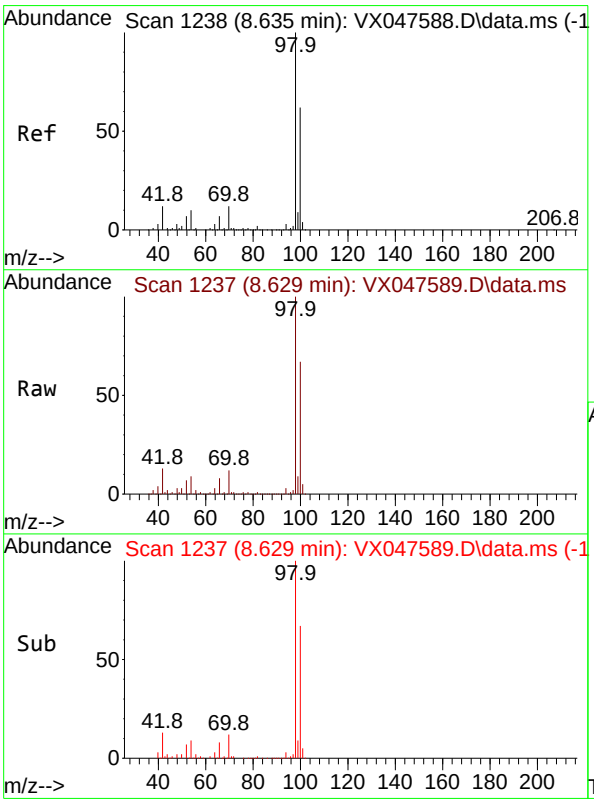
#49
1,4-Dioxane
Concen: 2190.315 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 56717

Ion	Ratio	Lower	Upper
88	100		
43	39.4	30.2	45.2
58	74.0	59.5	89.3

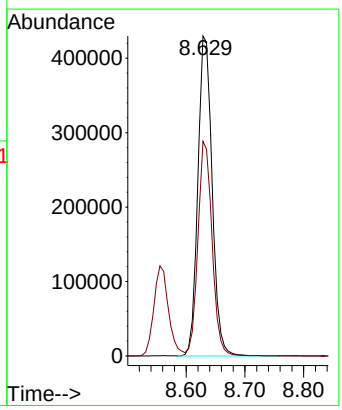


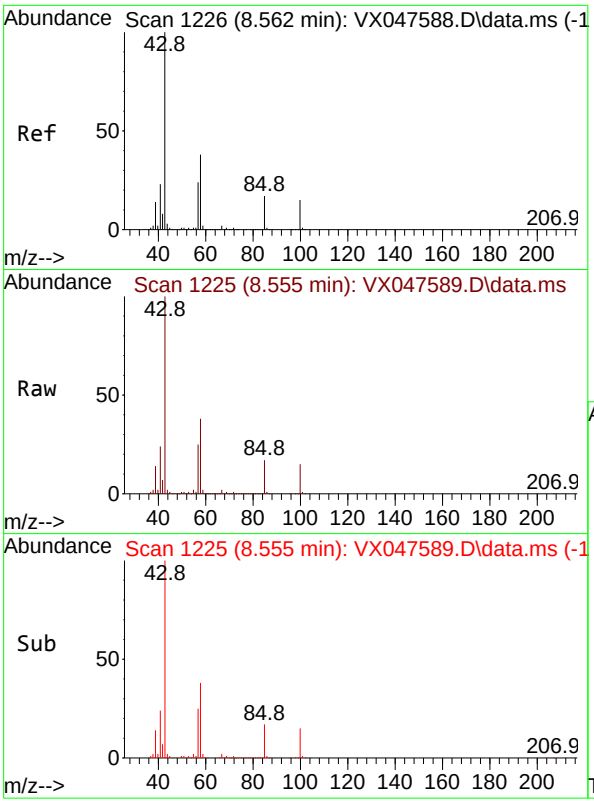


#50
Toluene-d8
Concen: 104.386 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 98 Resp: 724078

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4



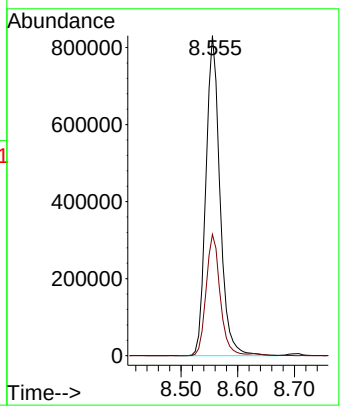


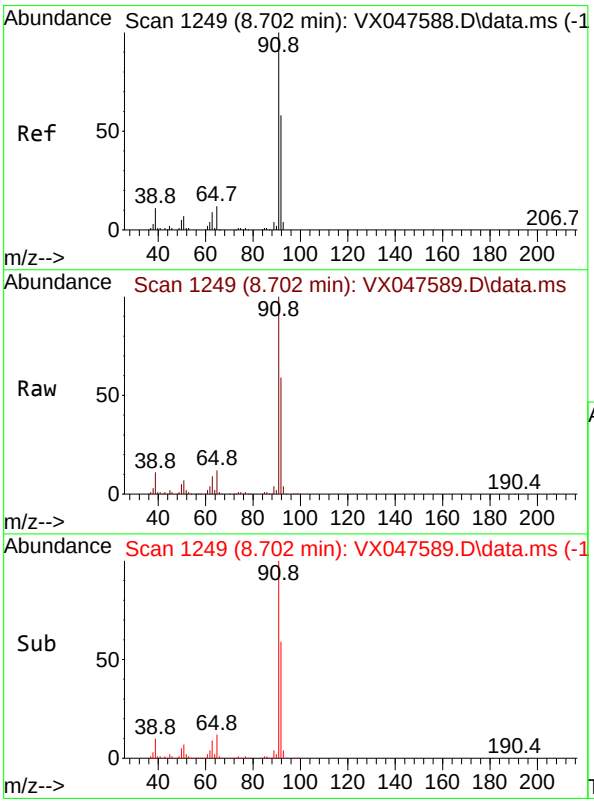
#51
4-Methyl-2-Pentanone
Concen: 501.834 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1431253

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5

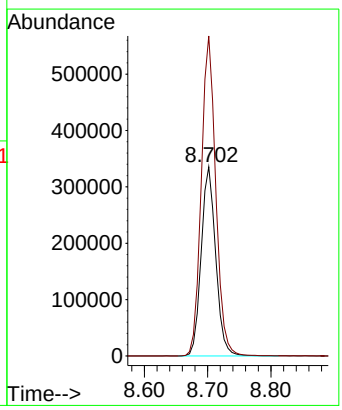


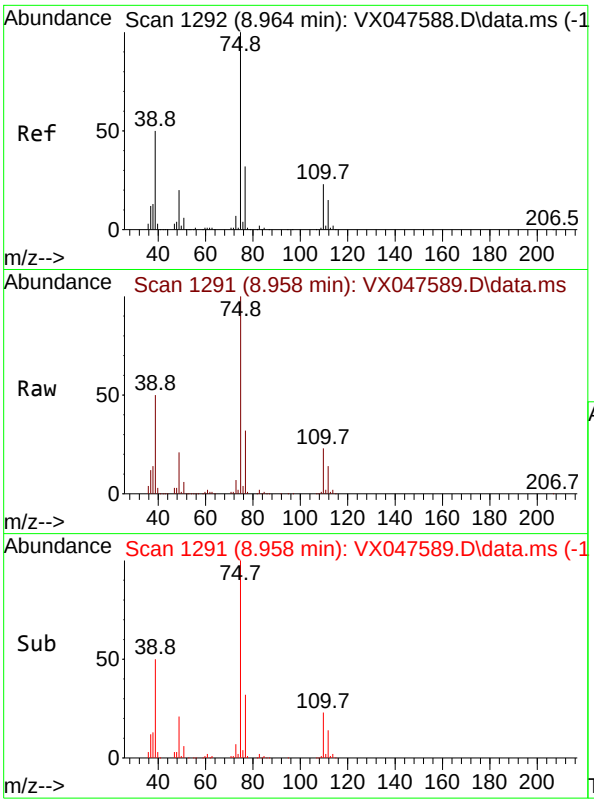


#52
Toluene
Concen: 97.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 92 Resp: 536148

Ion	Ratio	Lower	Upper
92	100		
91	169.3	137.1	205.7



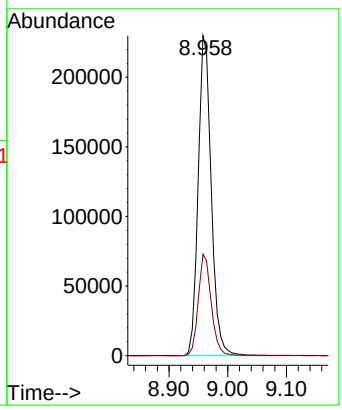


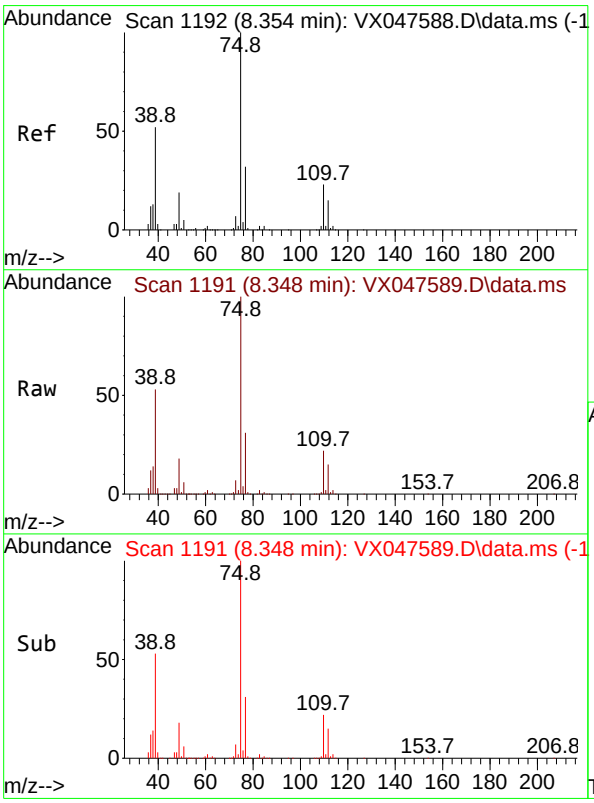
#53
t-1,3-Dichloropropene
Concen: 101.986 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 355881

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2

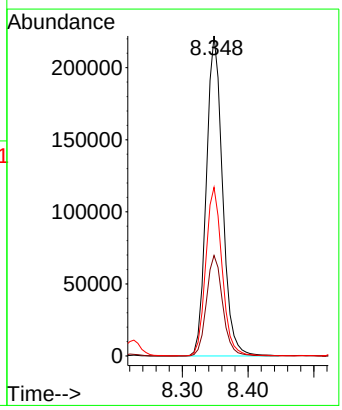


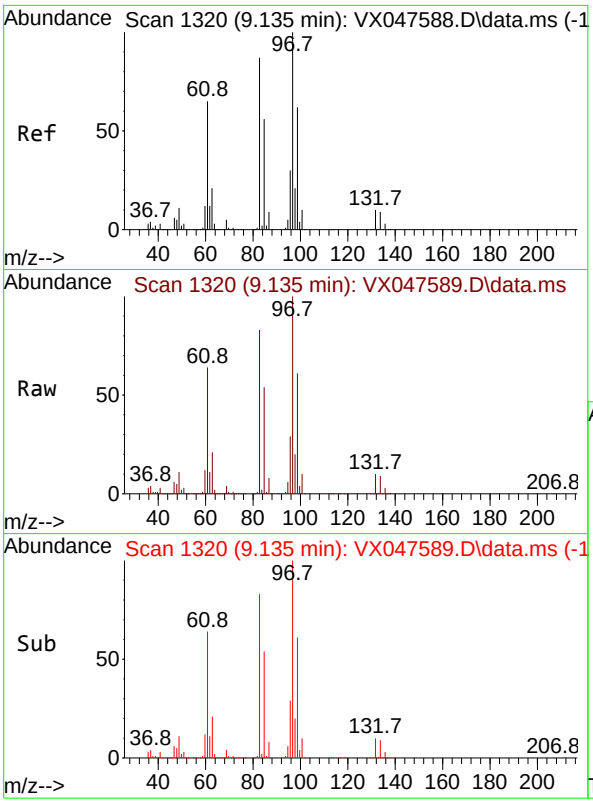


#54
cis-1,3-Dichloropropene
Concen: 102.038 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 380577

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	52.3	41.4	62.2



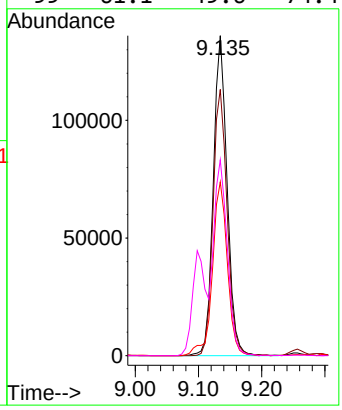


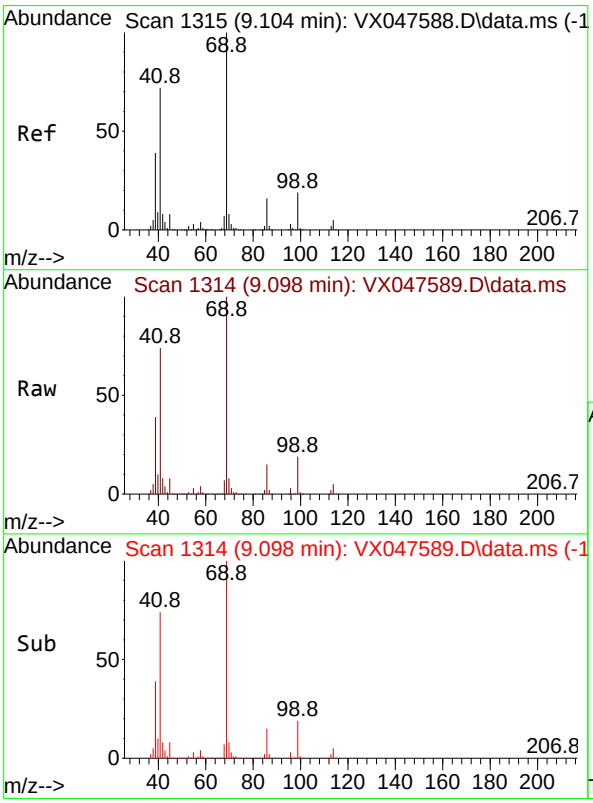
#55
1,1,2-Trichloroethane
Concen: 97.434 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 205939

Ion	Ratio	Lower	Upper
97	100		
83	83.2	69.6	104.4
85	54.3	45.0	67.6
99	61.1	49.6	74.4

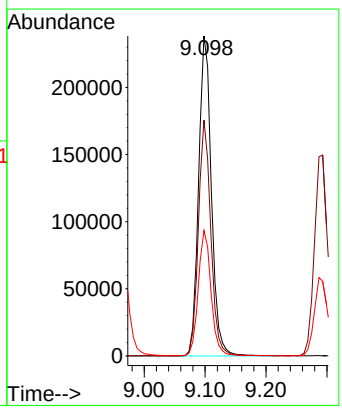


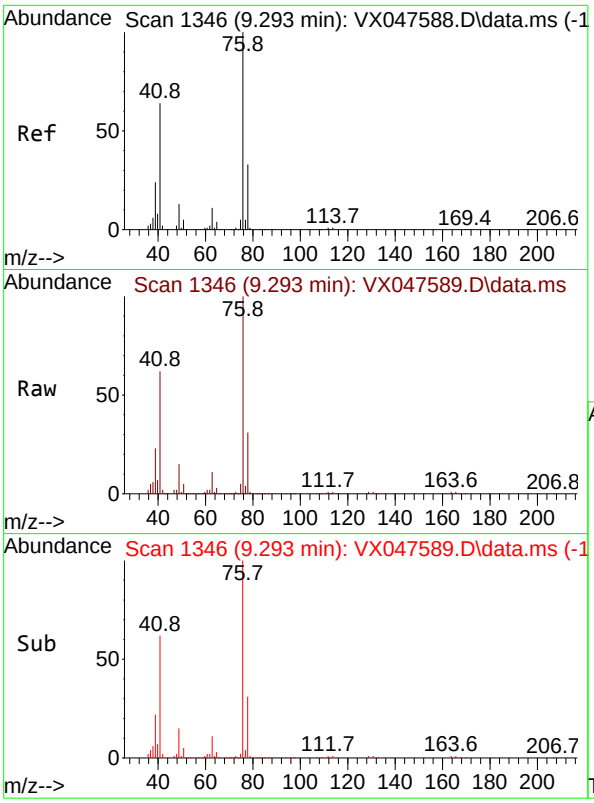


#56
Ethyl methacrylate
Concen: 104.435 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 69 Resp: 346659

Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3



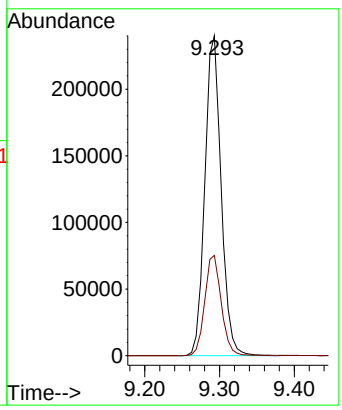


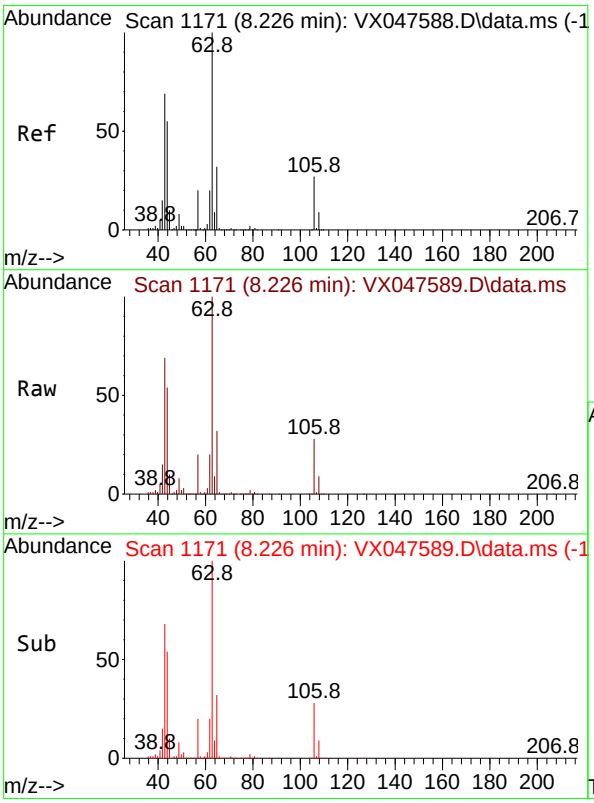
#57
1,3-Dichloropropane
Concen: 99.935 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 362848

Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.2	39.4

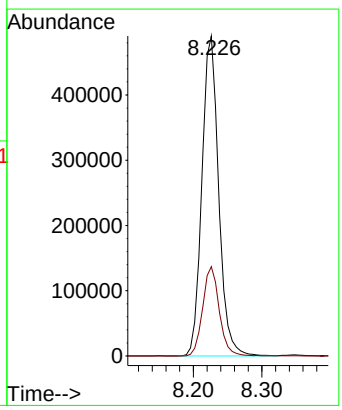


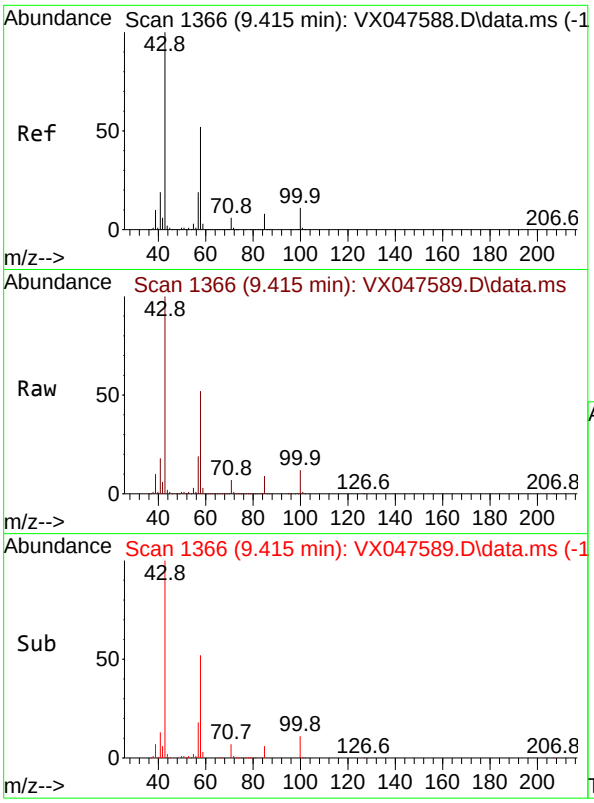


#58
2-Chloroethyl Vinyl ether
Concen: 499.814 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 836362

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



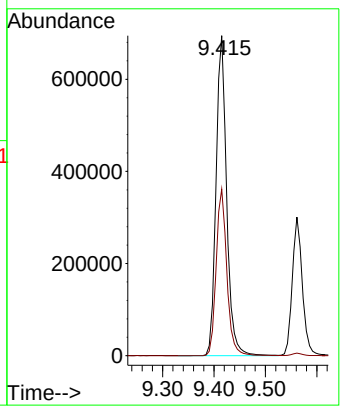


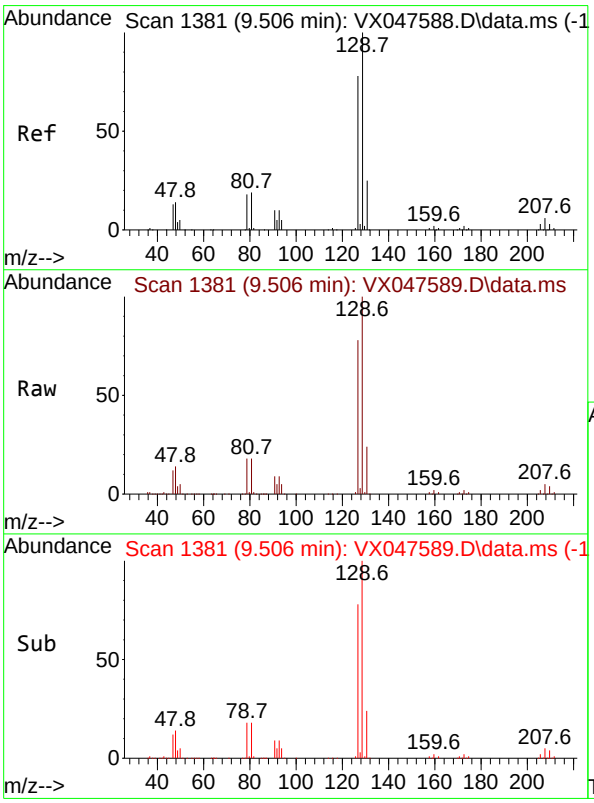
#59
2-Hexanone
Concen: 486.380 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 996274

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.2

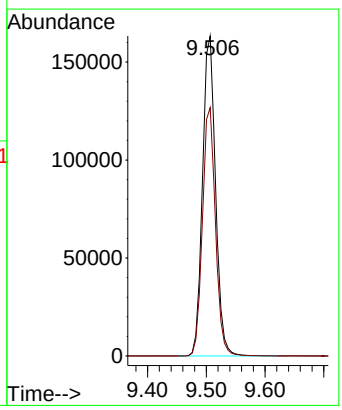


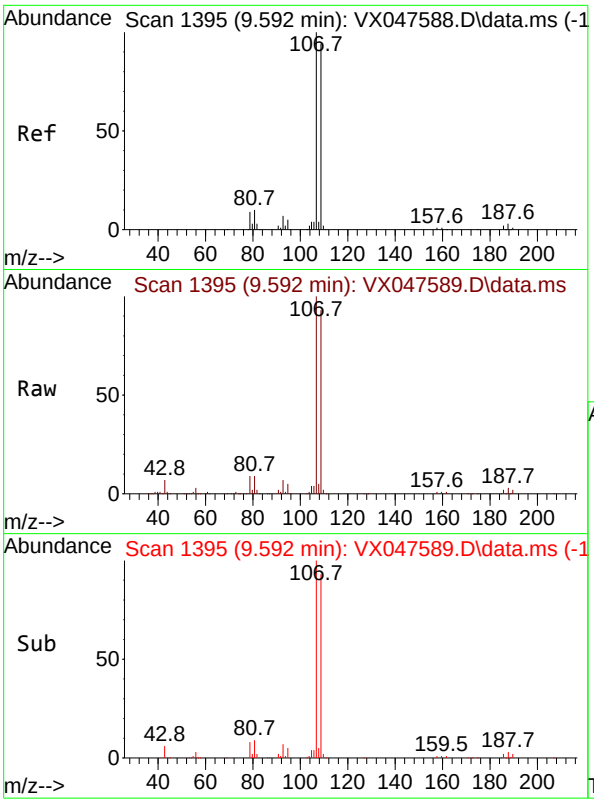


#60
Dibromochloromethane
Concen: 103.226 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:129 Resp: 251394

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.4	115.2



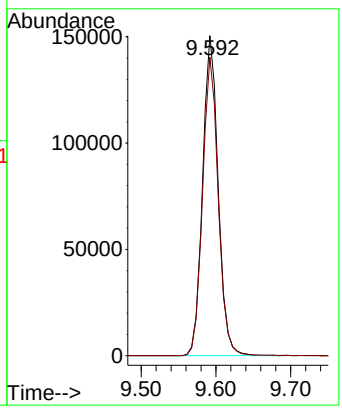


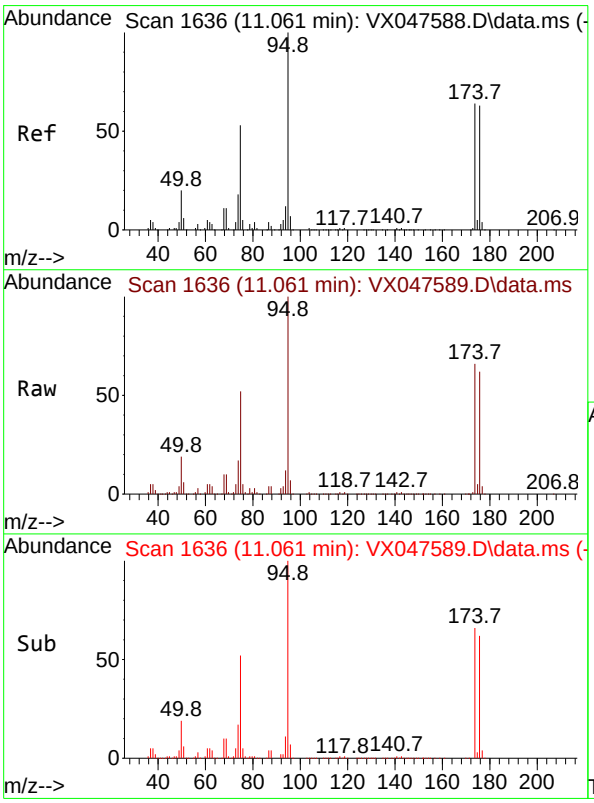
#61
1,2-Dibromoethane
Concen: 101.147 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 217751

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.3	112.9

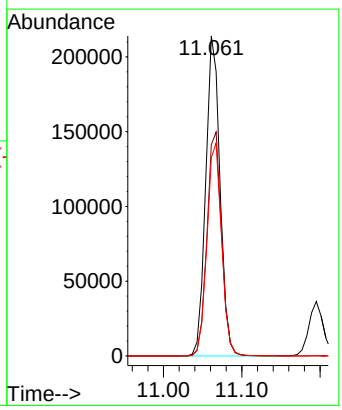


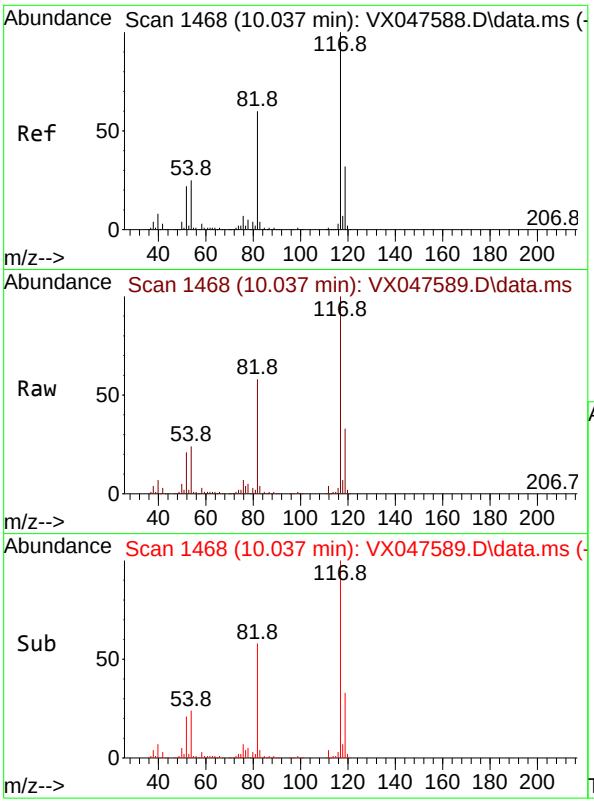


#62
4-Bromofluorobenzene
Concen: 102.672 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 95 Resp: 270289

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	68.0	0.0	138.4



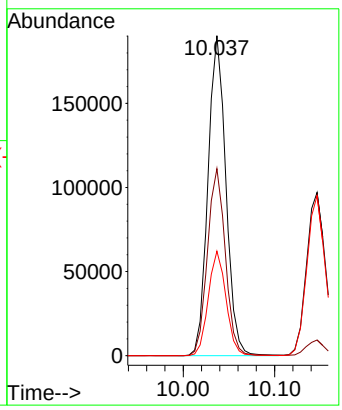


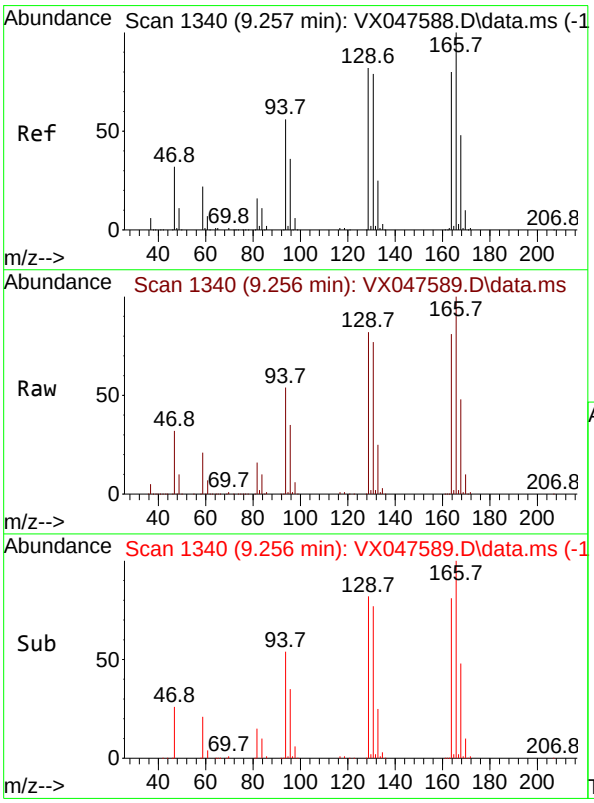
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 258399

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.8	71.6
119	32.7	25.2	37.8

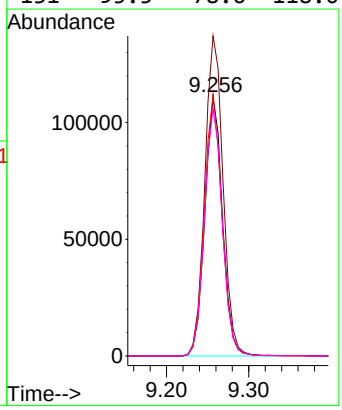


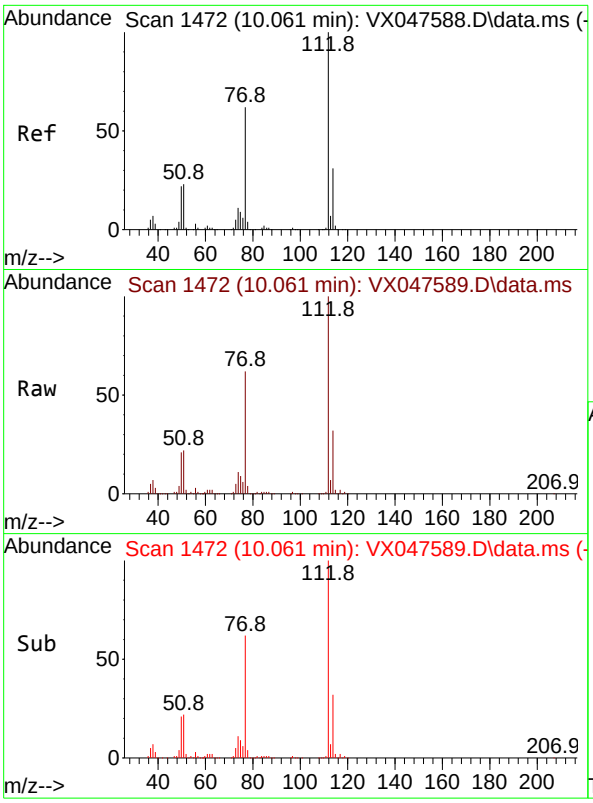


#64
Tetrachloroethene
Concen: 98.284 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:164 Resp: 165559

Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.2	150.2
129	100.9	81.8	122.6
131	95.5	78.6	118.0



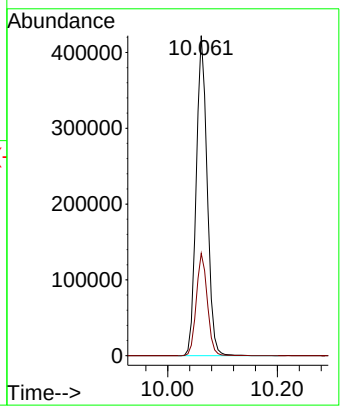


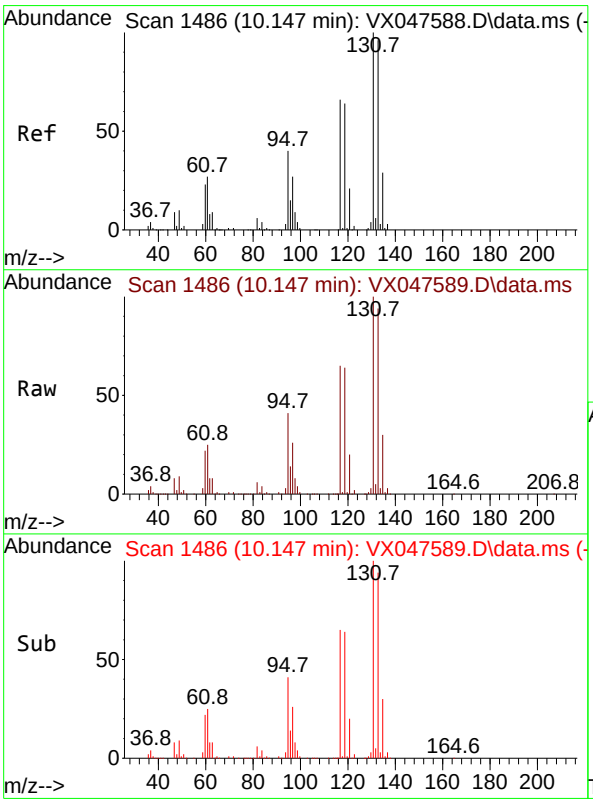
#65
Chlorobenzene
Concen: 100.253 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 588517

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.1	37.7

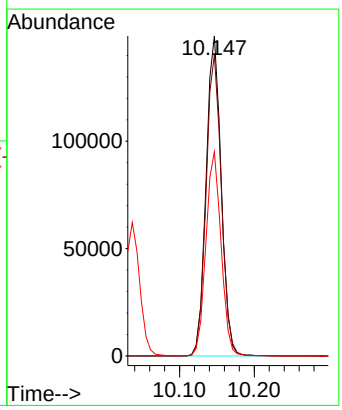


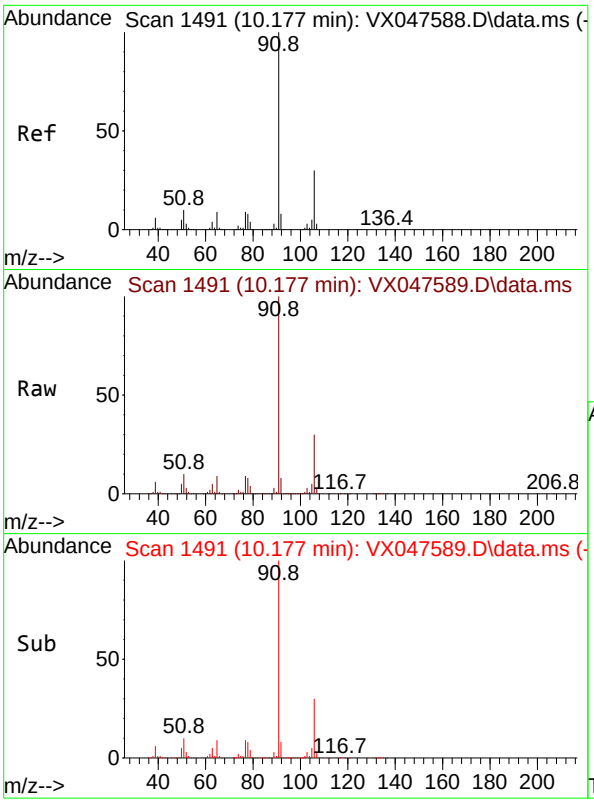


#66
1,1,1,2-Tetrachloroethane
Concen: 102.988 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:131 Resp: 208621

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	142.0
119	64.2	32.0	96.0



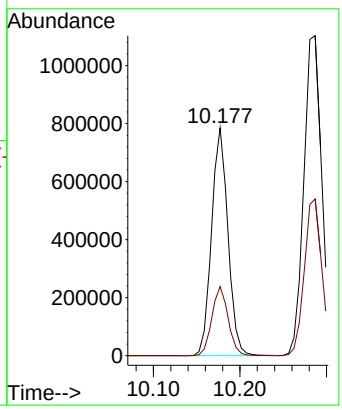


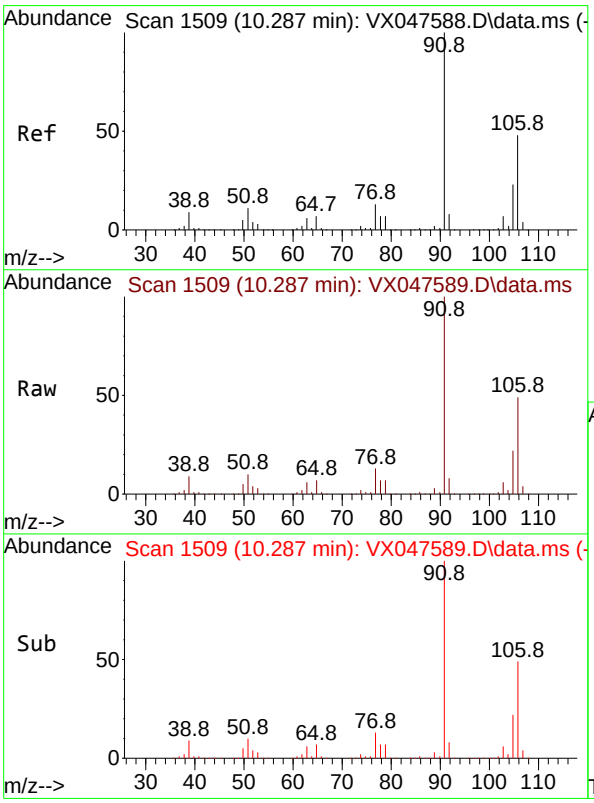
#67
Ethyl Benzene
Concen: 101.823 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1031346

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

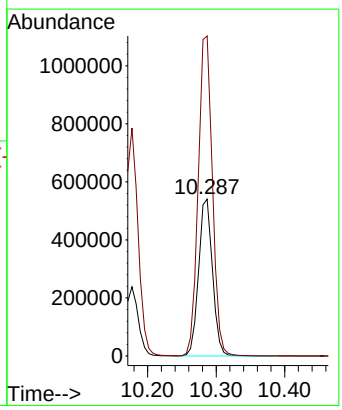


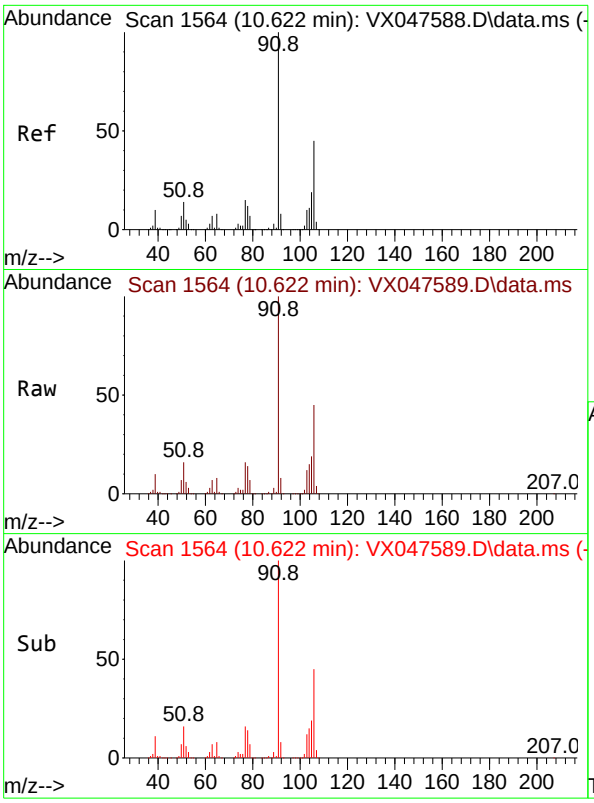


#68
m/p-Xylenes
Concen: 202.624 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:106 Resp: 763898

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8



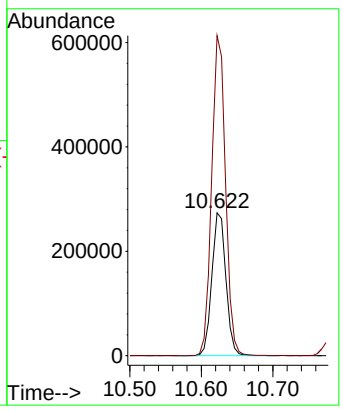


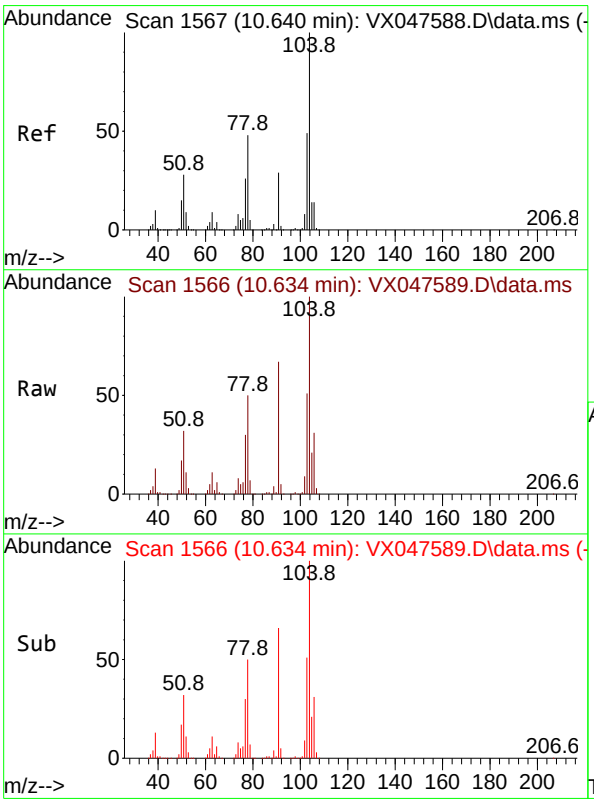
#69
o-Xylene
Concen: 102.186 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 372621

Ion	Ratio	Lower	Upper
106	100		
91	221.3	111.1	333.4

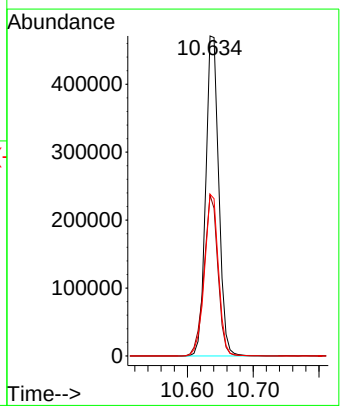


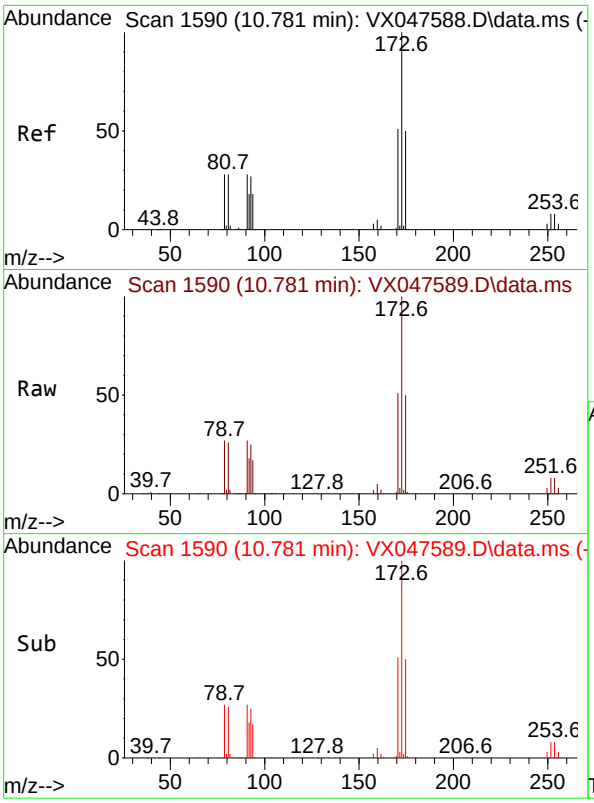


#70
Styrene
Concen: 101.710 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:104 Resp: 649863

Ion	Ratio	Lower	Upper
104	100		
78	53.5	43.1	64.7
103	54.1	43.1	64.7



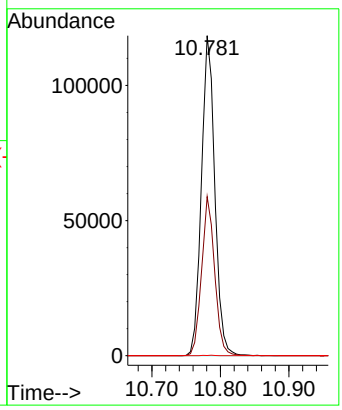


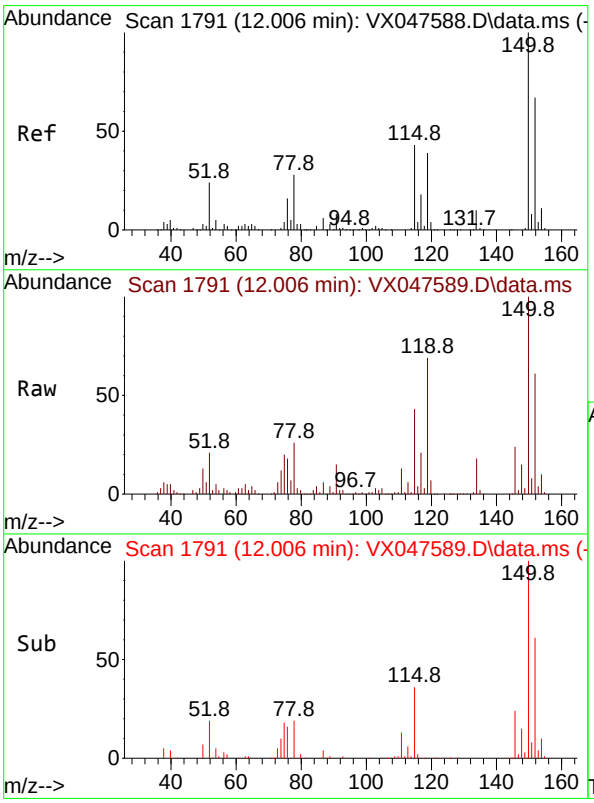
#71
Bromoform
Concen: 106.566 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 161188

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.9	74.6
254	0.1	0.1	0.1

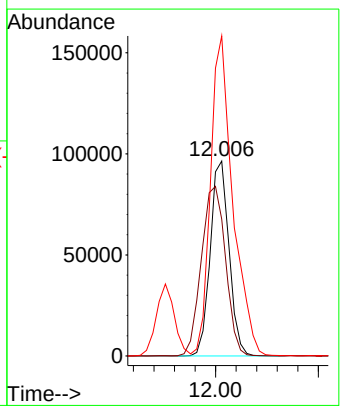


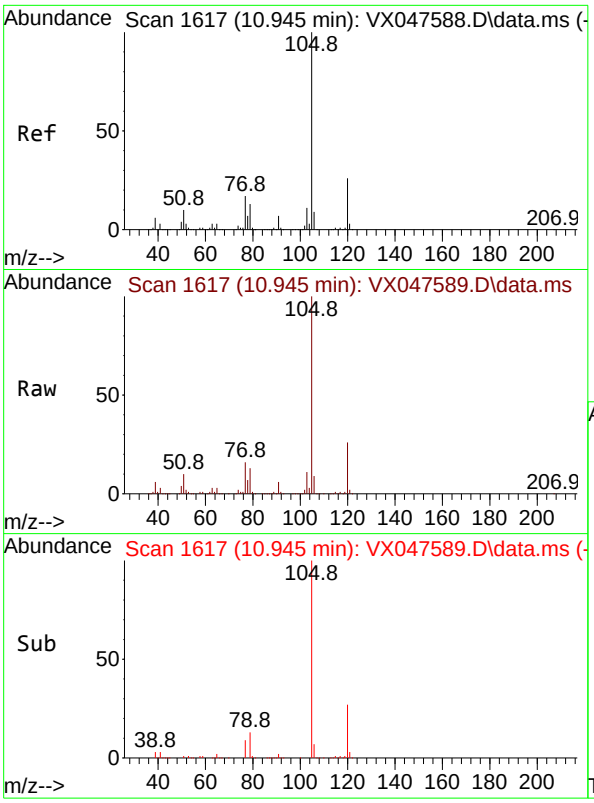


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:152 Resp: 122218

Ion	Ratio	Lower	Upper
152	100		
115	112.6	44.9	134.5
150	195.0	0.0	352.0



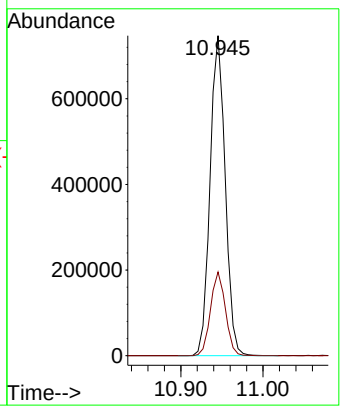


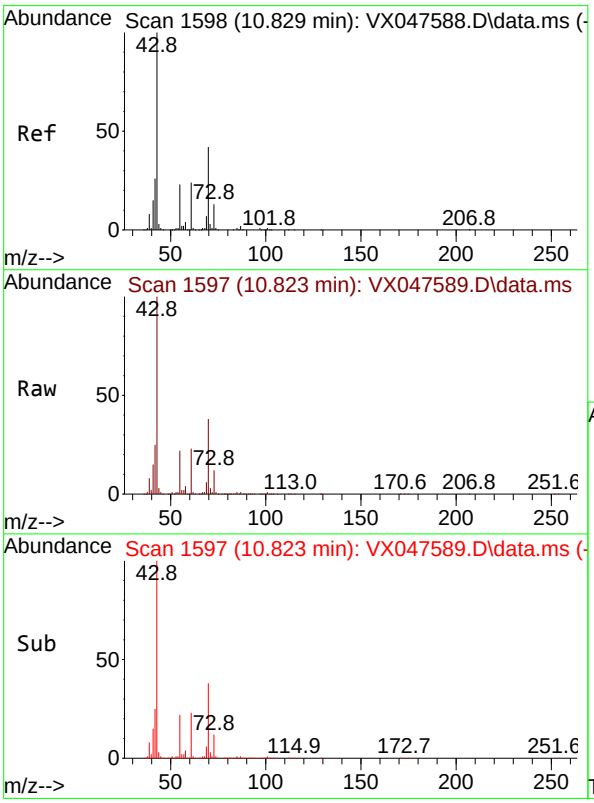
#73
Isopropylbenzene
Concen: 102.768 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 954900

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

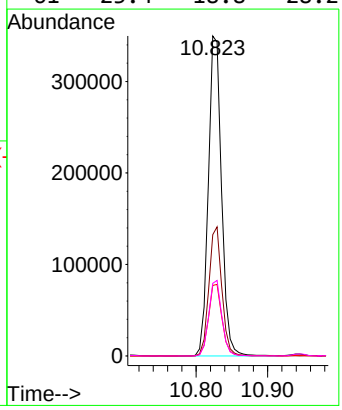


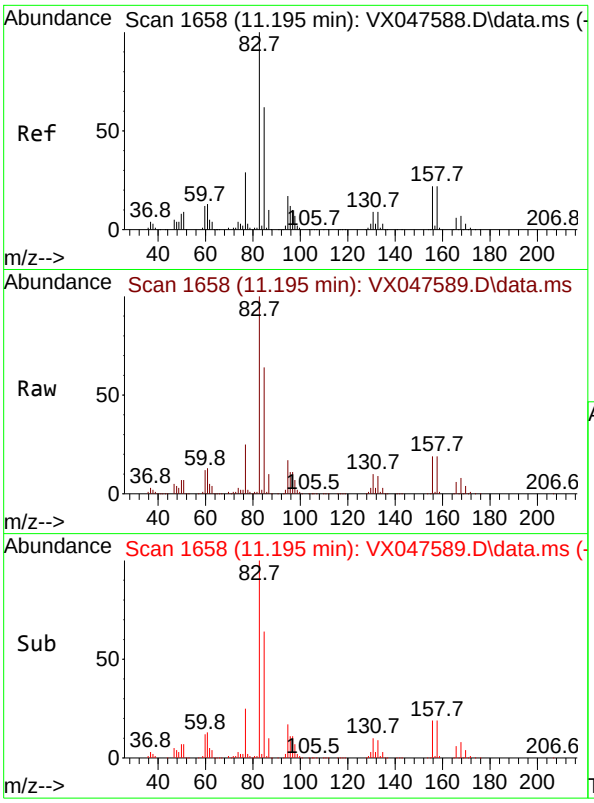


#74
N-amyl acetate
Concen: 105.812 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 448344

Ion	Ratio	Lower	Upper
43	100		
70	39.6	32.0	48.0
55	22.8	18.9	28.3
61	23.4	18.8	28.2



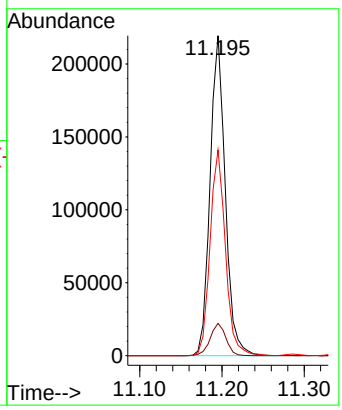


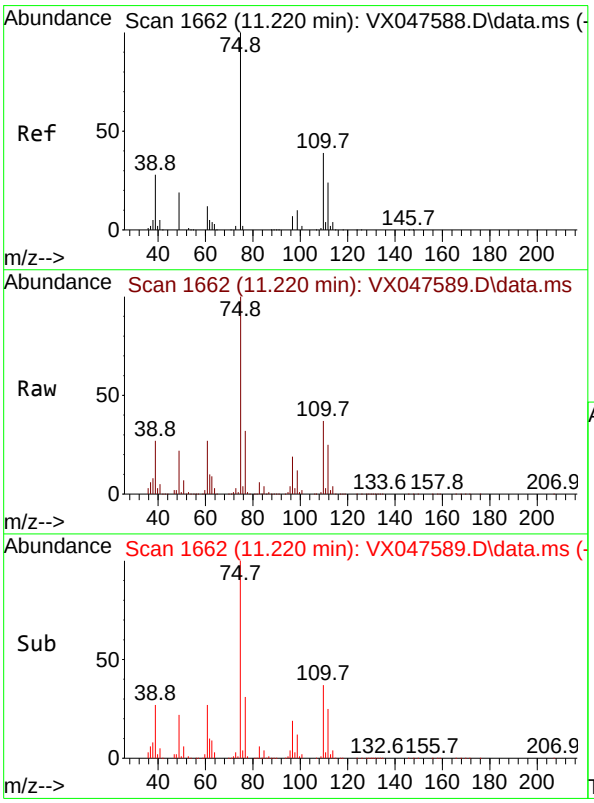
#75
1,1,2,2-Tetrachloroethane
Concen: 100.172 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 281608

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	65.1	31.6	95.0

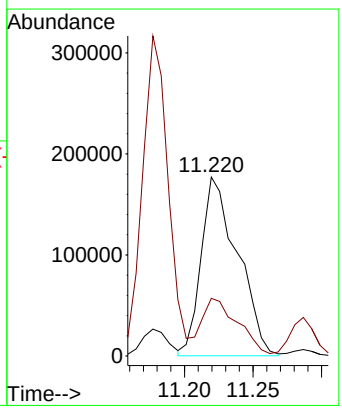


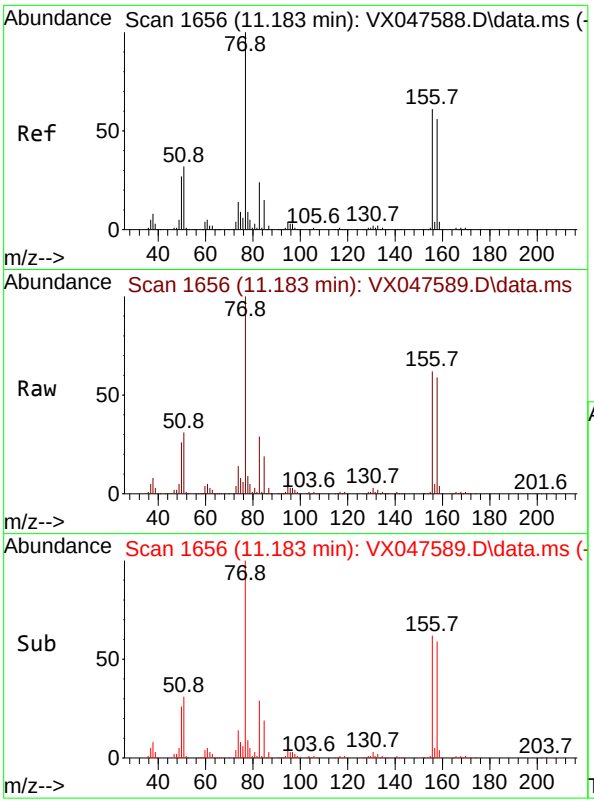


#76
1,2,3-Trichloropropane
Concen: 132.545 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 327988

Ion	Ratio	Lower	Upper
75	100		
77	30.7	18.8	56.4



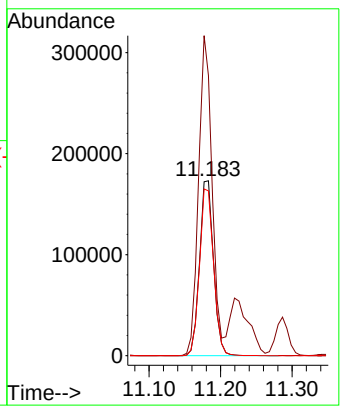


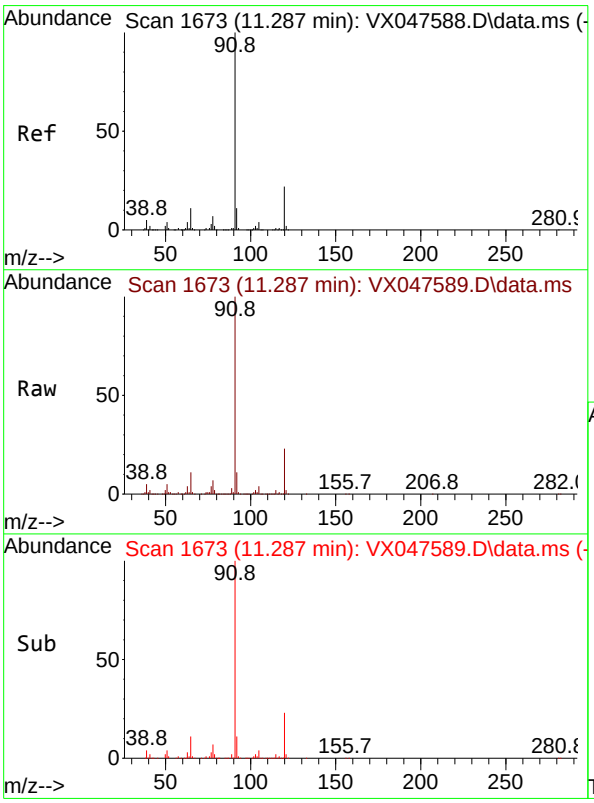
#77
Bromobenzene
Concen: 102.541 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 234666

Ion	Ratio	Lower	Upper
156	100		
77	176.0	89.7	269.1
158	96.5	47.9	143.6

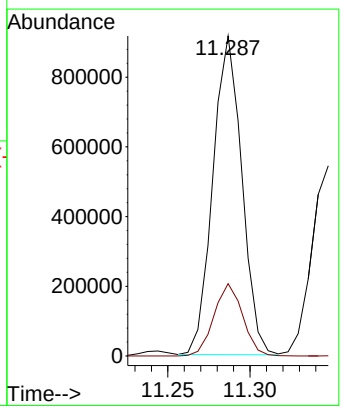


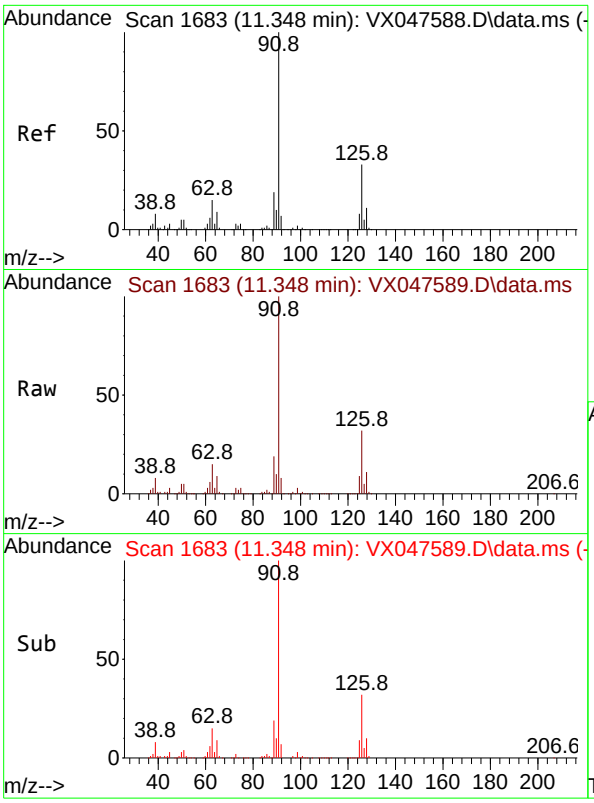


#78
n-propylbenzene
Concen: 101.941 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 1119728

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



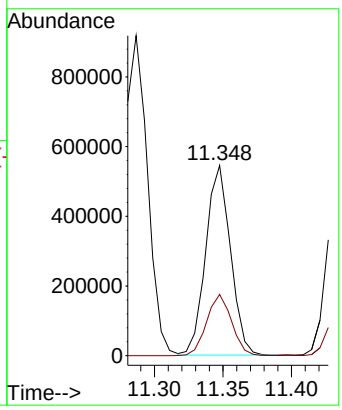


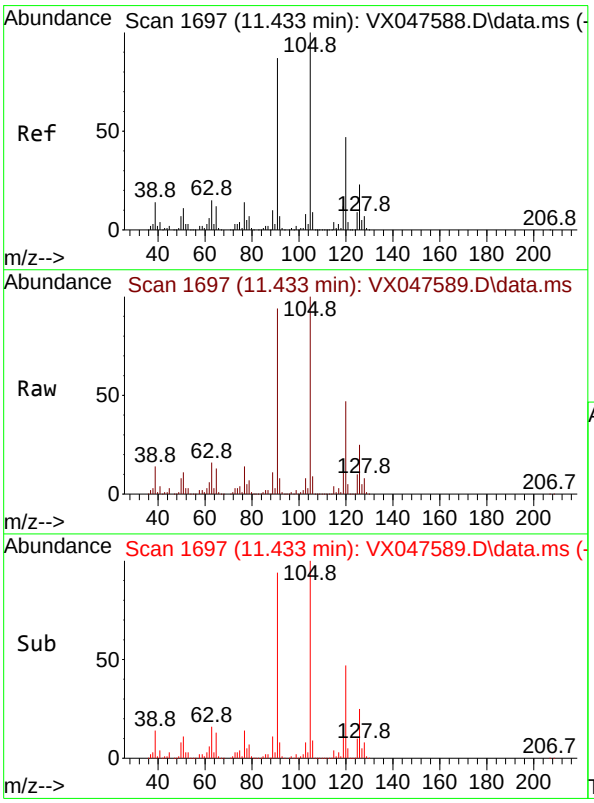
#79
2-Chlorotoluene
Concen: 101.652 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 683867

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

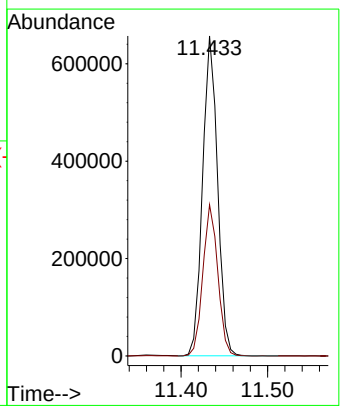


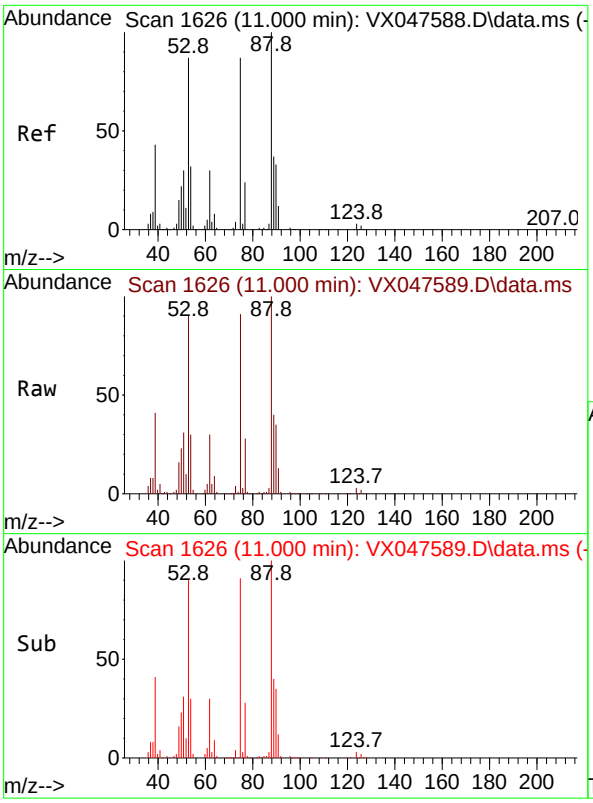


#80
1,3,5-Trimethylbenzene
Concen: 103.134 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 787327

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8



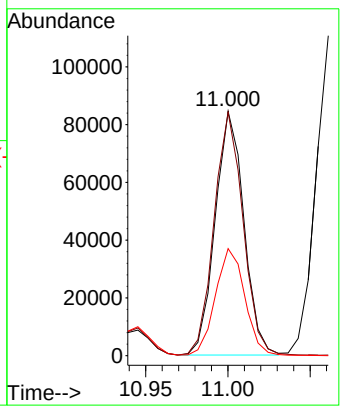


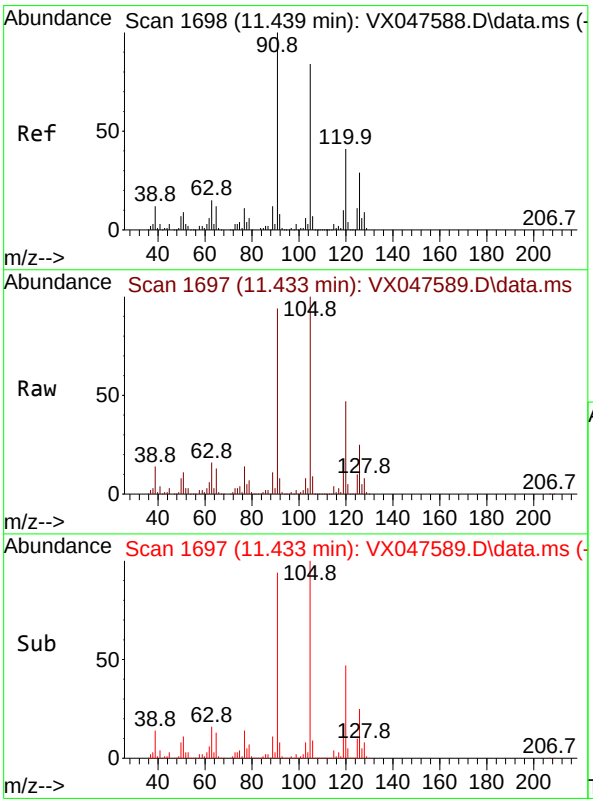
#81
trans-1,4-Dichloro-2-butene
Concen: 105.689 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 102555

Ion	Ratio	Lower	Upper
75	100		
53	101.1	83.4	125.2
89	45.3	36.3	54.5

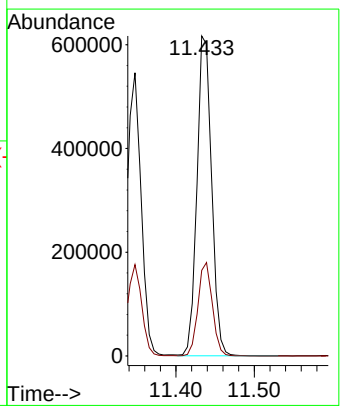


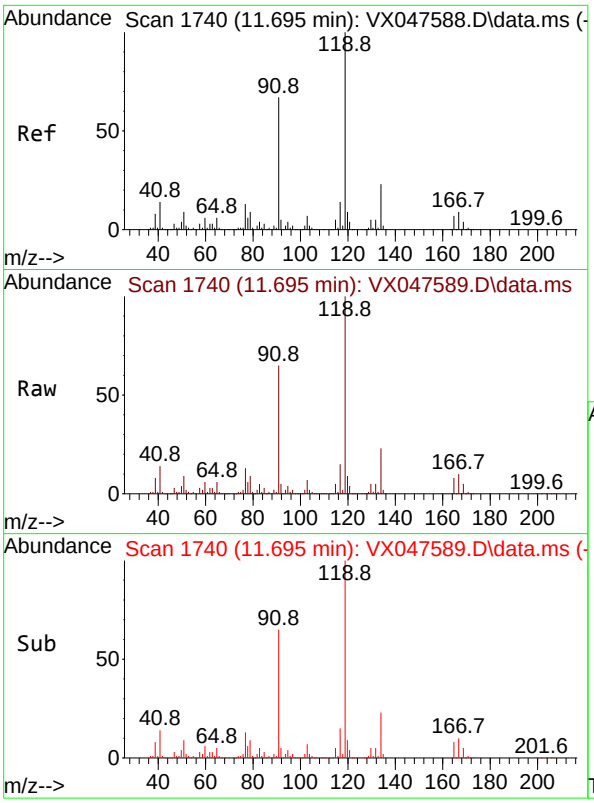


#82
4-Chlorotoluene
Concen: 101.054 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 802929

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6



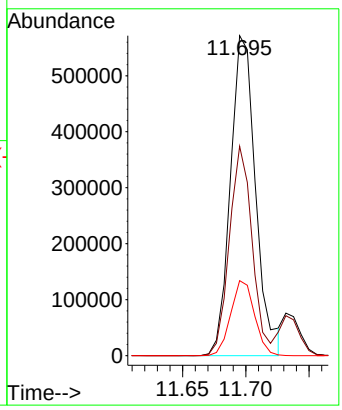


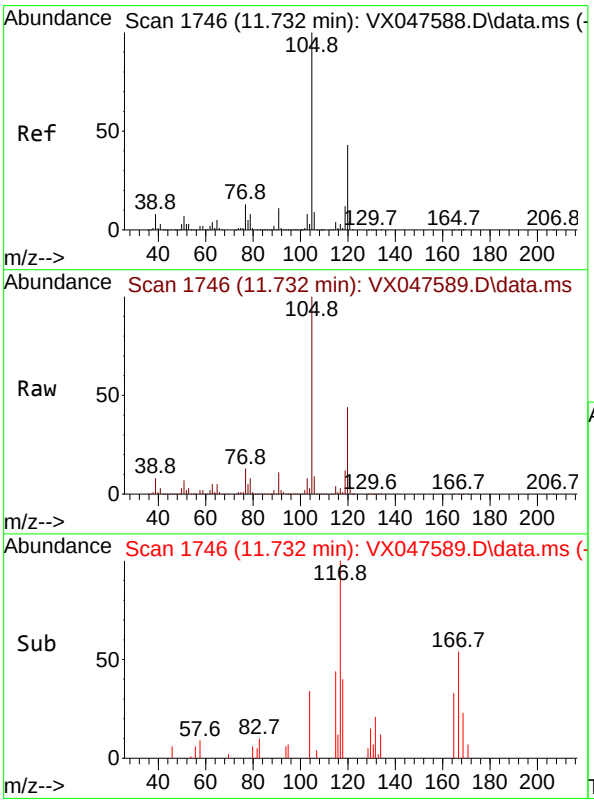
#83
tert-Butylbenzene
Concen: 101.333 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 791896

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.6	88.8
134	22.3	11.0	33.0

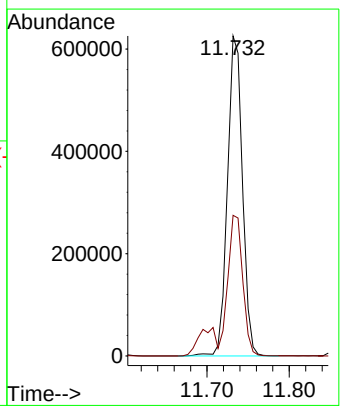


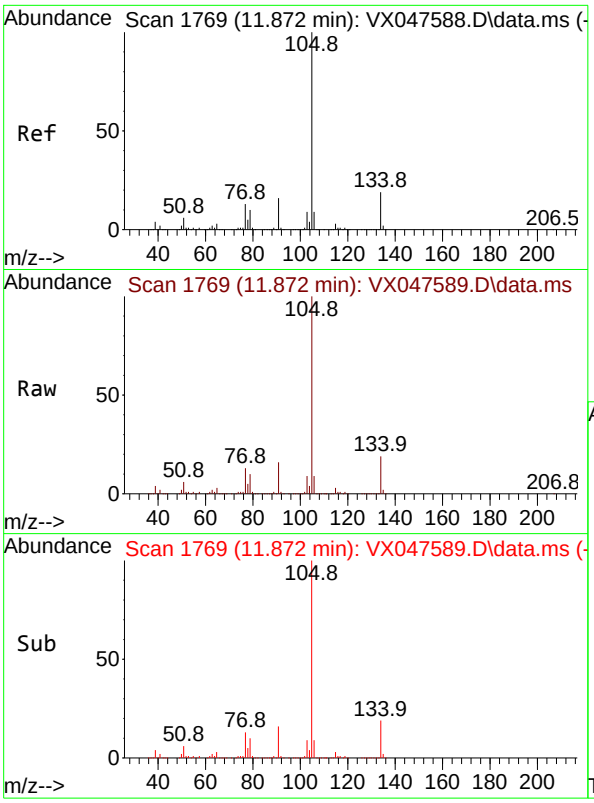


#84
1,2,4-Trimethylbenzene
Concen: 102.144 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 790557

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.1	66.1



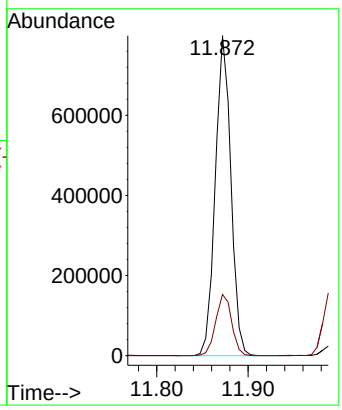


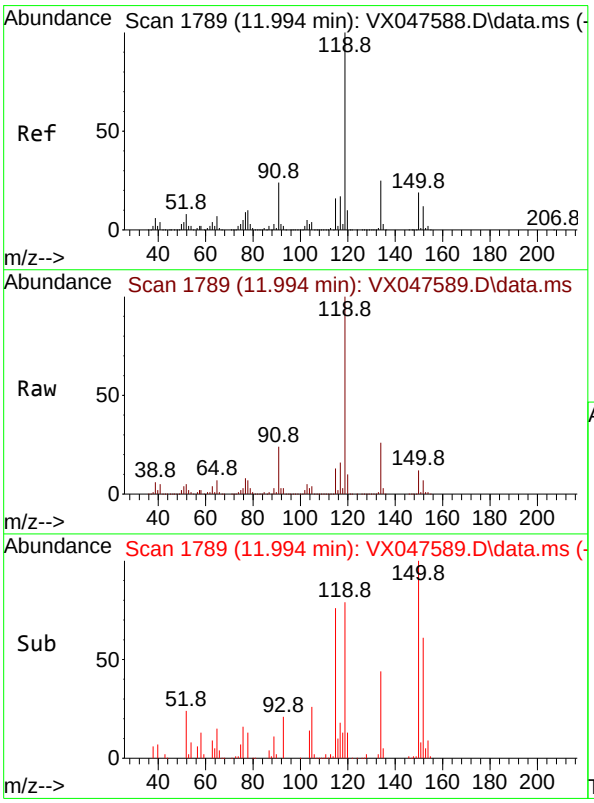
#85
sec-Butylbenzene
Concen: 101.840 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 945321

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

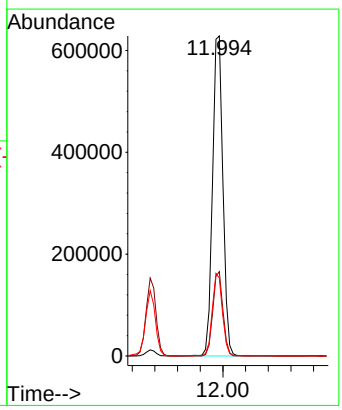


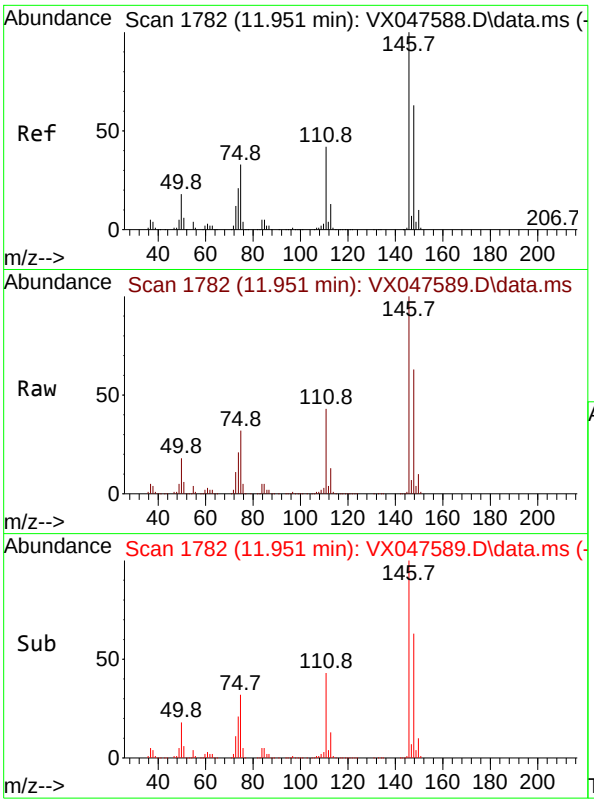


#86
p-Isopropyltoluene
Concen: 101.501 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:119 Resp: 797643

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.6	37.8
91	25.2	12.6	37.6



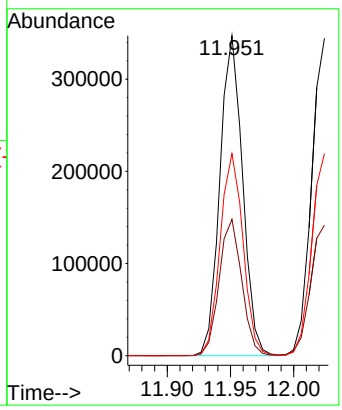


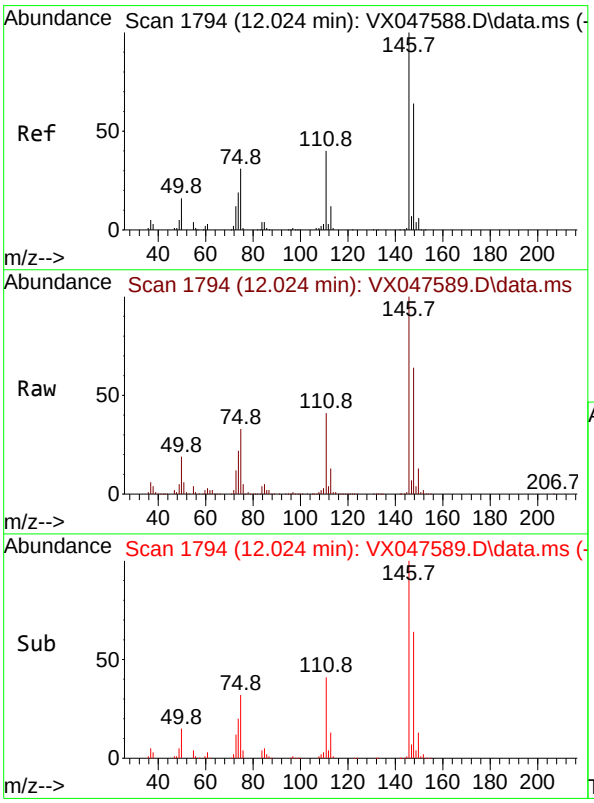
#87
1,3-Dichlorobenzene
Concen: 101.689 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 432248

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.5	64.5
148	63.9	32.0	96.0

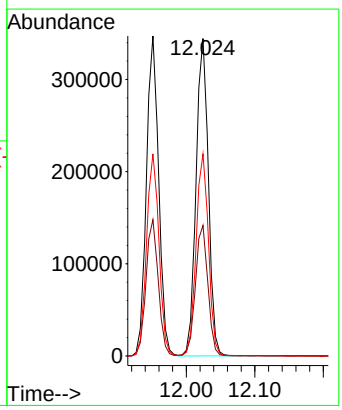


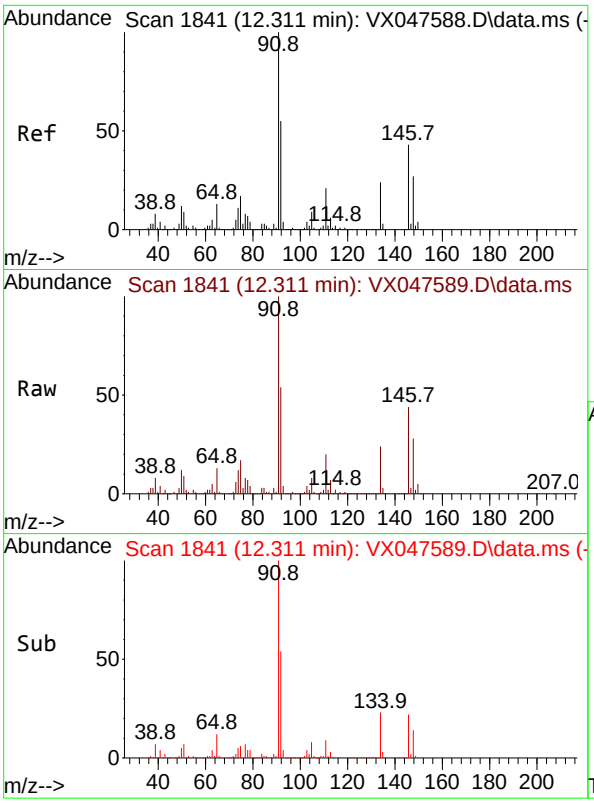


#88
1,4-Dichlorobenzene
Concen: 98.985 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 431839

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.8	31.7	95.1



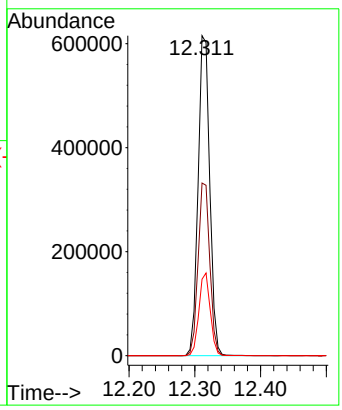


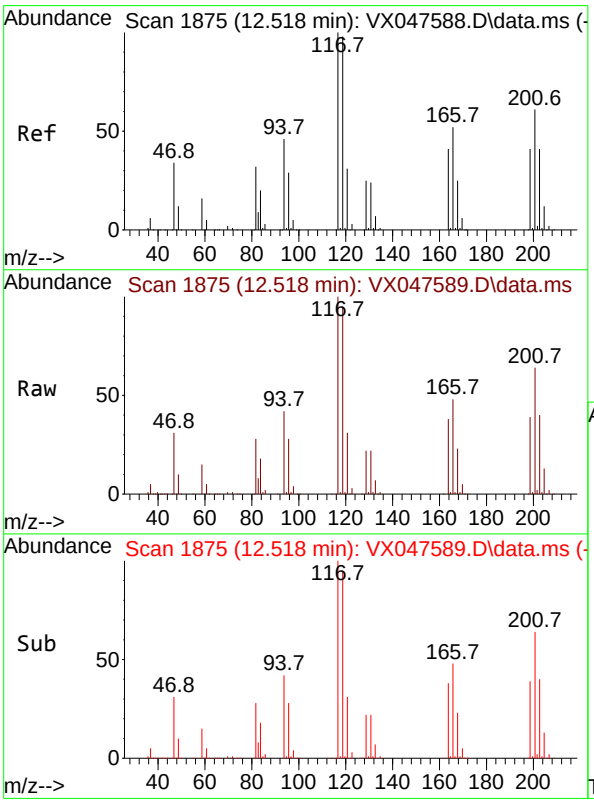
#89
n-Butylbenzene
Concen: 104.138 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 757239

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.1	12.6	37.8

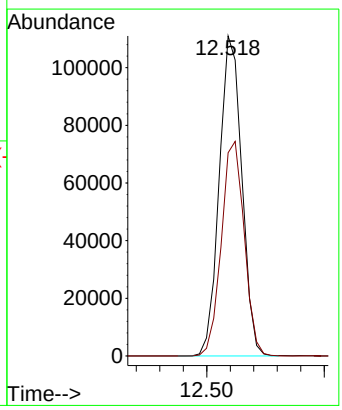


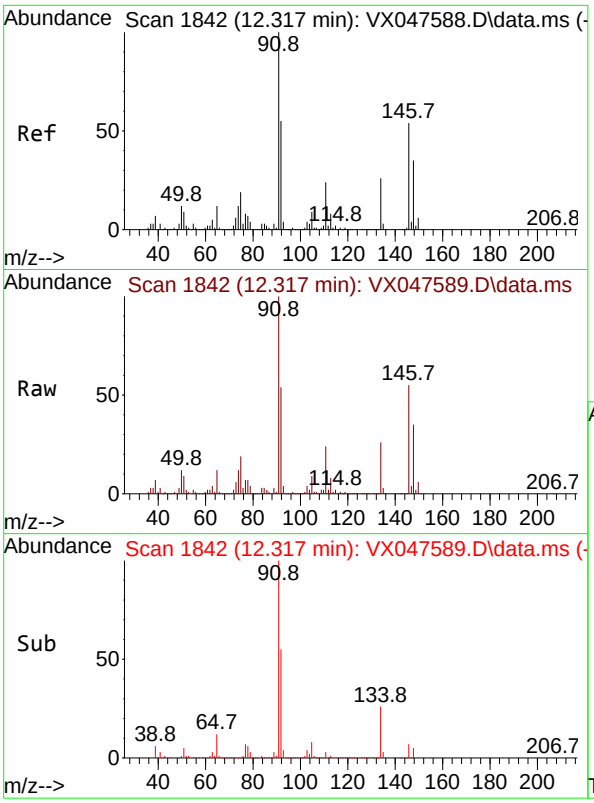


#90
Hexachloroethane
Concen: 107.304 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 148048

Ion	Ratio	Lower	Upper
117	100		
201	68.1	34.2	102.5



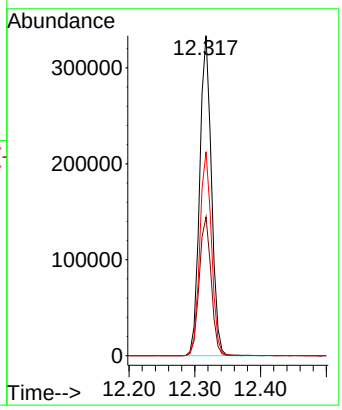


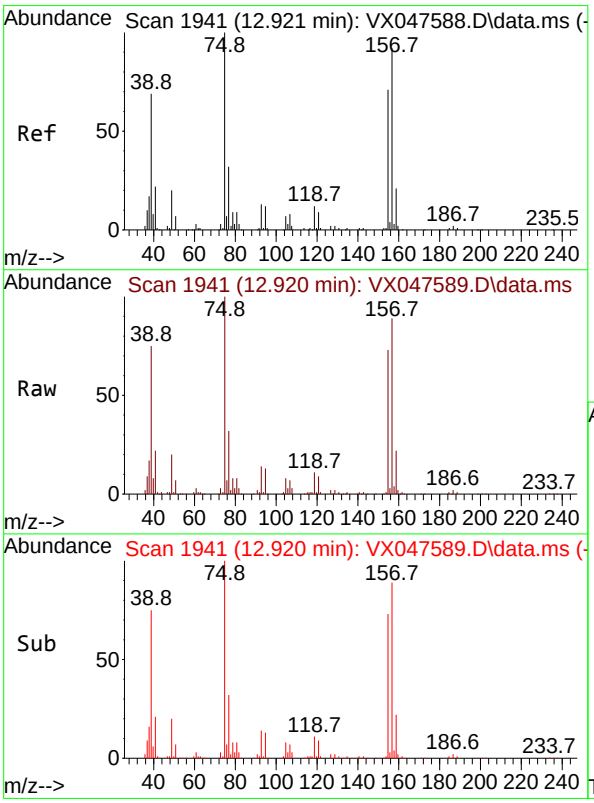
#91
1,2-Dichlorobenzene
Concen: 102.352 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 414491

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.4	31.8	95.4

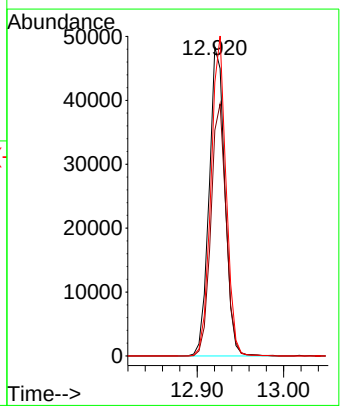


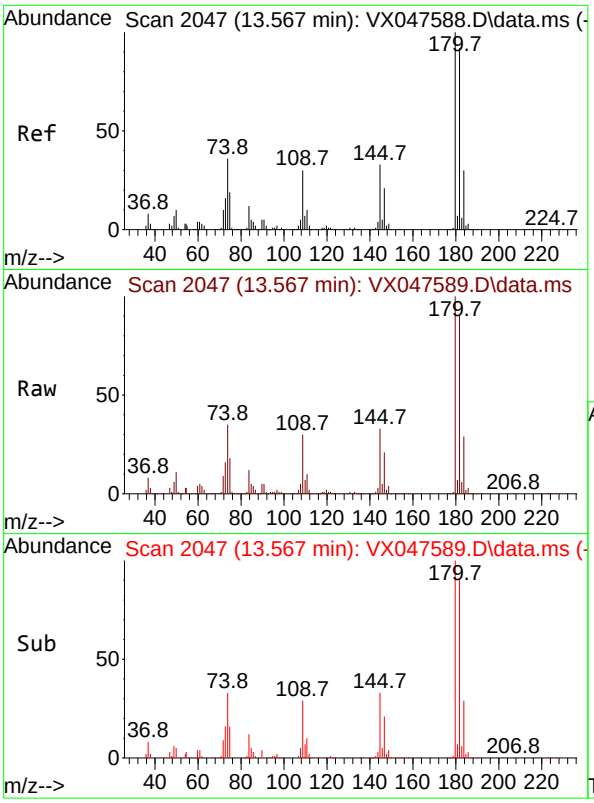


#92
1,2-Dibromo-3-Chloropropane
Concen: 107.225 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 61029

Ion	Ratio	Lower	Upper
75	100		
155	79.0	37.7	113.1
157	99.2	49.8	149.4



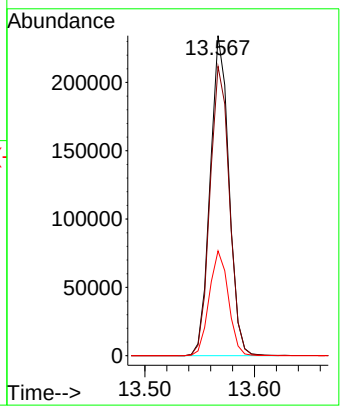


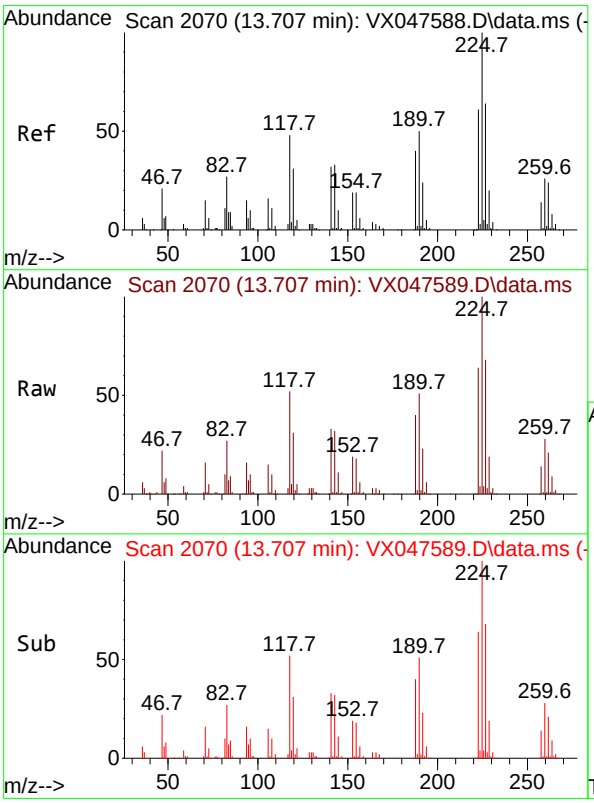
#93
1,2,4-Trichlorobenzene
Concen: 105.922 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 278777

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	33.3	16.4	49.1

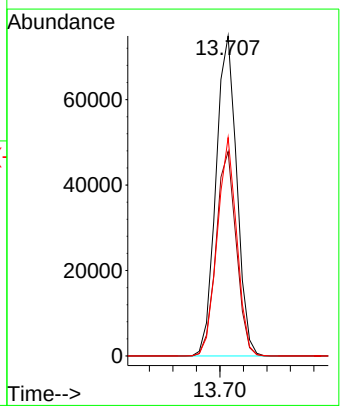


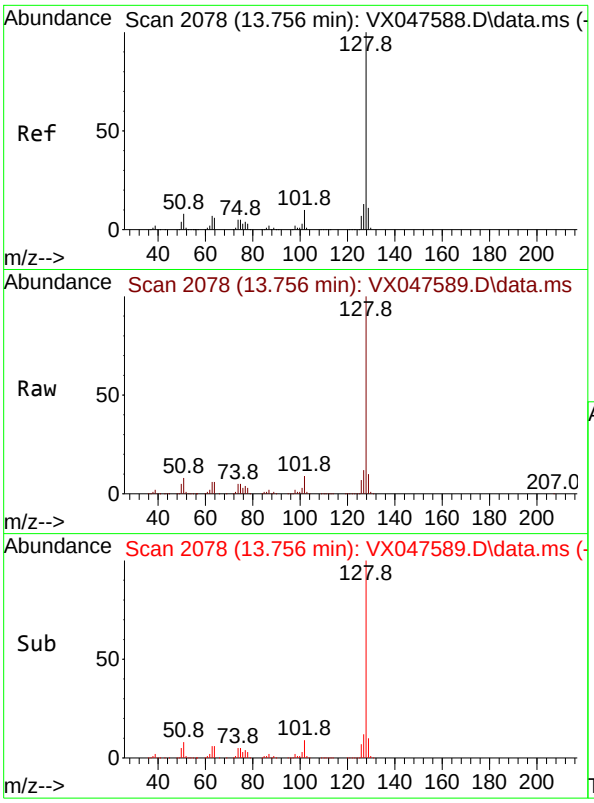


#94
Hexachlorobutadiene
Concen: 103.049 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:225 Resp: 92124

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.7	95.1
227	63.8	32.0	96.0



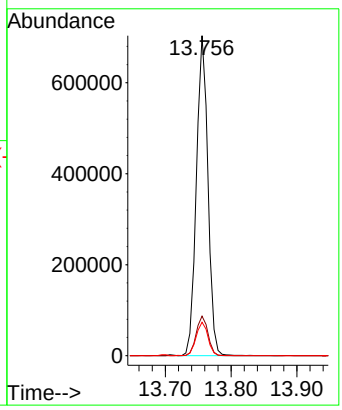


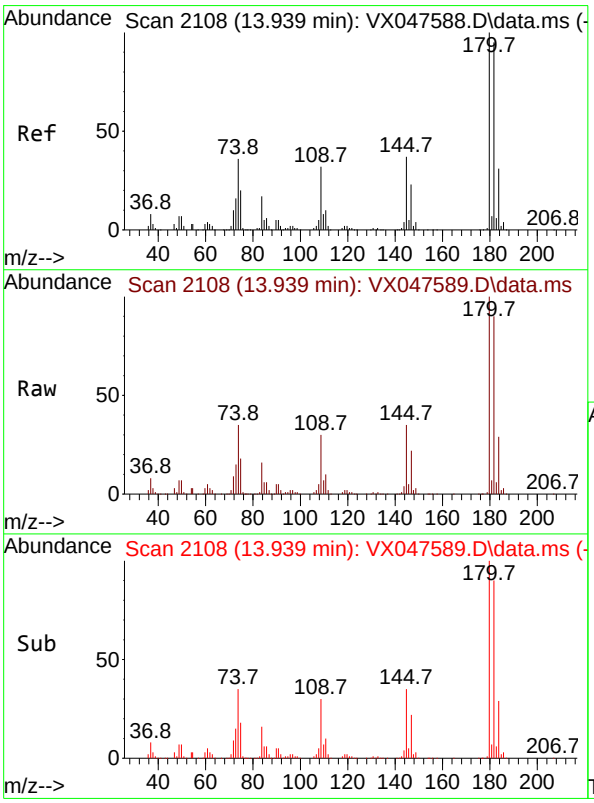
#95
Naphthalene
Concen: 106.620 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 854492

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2

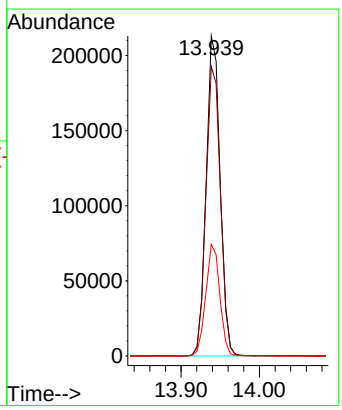




#96
1,2,3-Trichlorobenzene
Concen: 107.633 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:180 Resp: 263512

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	35.0	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Sep 22 01:52:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	153177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	274804	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114743	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	396627	162.673	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 325.340%#			
35) Dibromofluoromethane	5.373	113	303728	164.802	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 329.600%#			
50) Toluene-d8	8.635	98	1041079	163.253	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 326.500%#			
62) 4-Bromofluorobenzene	11.067	95	399386	165.020	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 330.040%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	226166	142.586	ug/l	99
3) Chloromethane	1.301	50	297259	142.593	ug/l	99
4) Vinyl Chloride	1.380	62	302303	148.140	ug/l	98
5) Bromomethane	1.605	94	147541	114.019	ug/l	98
6) Chloroethane	1.691	64	195927	143.652	ug/l	99
7) Trichlorofluoromethane	1.892	101	453116	149.545	ug/l	99
8) Diethyl Ether	2.136	74	188006	151.684	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	267995	151.264	ug/l	99
10) Methyl Iodide	2.453	142	407242	147.384	ug/l	99
11) Tert butyl alcohol	2.959	59	215927	795.166	ug/l	100
12) 1,1-Dichloroethene	2.325	96	273692	150.388	ug/l	97
13) Acrolein	2.239	56	223763	894.203	ug/l	98
14) Allyl chloride	2.666	41	554779	147.727	ug/l	99
15) Acrylonitrile	3.063	53	790790	786.201	ug/l	99
16) Acetone	2.380	43	686119	647.201	ug/l	98
17) Carbon Disulfide	2.514	76	714503	143.412	ug/l	99
18) Methyl Acetate	2.703	43	404736	171.548	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	1015295	152.826	ug/l	100
20) Methylene Chloride	2.788	84	324032	144.398	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	291616	148.833	ug/l	98
22) Diisopropyl ether	3.757	45	1095726	150.551	ug/l	97
23) Vinyl Acetate	3.715	43	4504849	773.364	ug/l	100
24) 1,1-Dichloroethane	3.605	63	587129	151.776	ug/l	98
25) 2-Butanone	4.544	43	973938	736.502	ug/l	99
26) 2,2-Dichloropropane	4.471	77	486890	151.414	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	366262	152.638	ug/l	99
28) Bromochloromethane	4.885	49	289548	171.451	ug/l	99
29) Tetrahydrofuran	4.989	42	616374	774.811	ug/l	100
30) Chloroform	5.080	83	591709	151.367	ug/l	99
31) Cyclohexane	5.458	56	456119	141.570	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	506654	152.802	ug/l	99
36) 1,1-Dichloropropene	5.684	75	386601	143.556	ug/l	99
37) Ethyl Acetate	4.702	43	444461	154.141	ug/l	99
38) Carbon Tetrachloride	5.666	117	427263	146.021	ug/l	98
39) Methylcyclohexane	7.367	83	456694	149.395	ug/l	98
40) Benzene	6.025	78	1202846	147.057	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Sep 22 01:52:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	223218	149.951	ug/l	99
42) 1,2-Dichloroethane	6.074	62	455978	146.515	ug/l	99
43) Isopropyl Acetate	6.324	43	724888	153.283	ug/l	99
44) Trichloroethene	7.111	130	299673	151.542	ug/l	96
45) 1,2-Dichloropropane	7.415	63	316720	151.219	ug/l	99
46) Dibromomethane	7.568	93	228550	149.954	ug/l	97
47) Bromodichloromethane	7.806	83	483438	153.710	ug/l	98
48) Methyl methacrylate	7.678	41	367931	156.194	ug/l	99
49) 1,4-Dioxane	7.647	88	82739	3475.565	ug/l	98
51) 4-Methyl-2-Pentanone	8.562	43	2008063	765.849	ug/l	100
52) Toluene	8.702	92	739332	146.712	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	503912	157.076	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	530566	154.732	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	289103	148.781	ug/l	99
56) Ethyl methacrylate	9.104	69	490623	160.773	ug/l	97
57) 1,3-Dichloropropane	9.293	76	502121	150.426	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.232	63	1202206	749.661	ug/l	99
59) 2-Hexanone	9.415	43	1412417	750.035	ug/l	99
60) Dibromochloromethane	9.506	129	347748	155.318	ug/l	98
61) 1,2-Dibromoethane	9.592	107	302715	152.949	ug/l	99
64) Tetrachloroethene	9.263	164	227931	144.590	ug/l	98
65) Chlorobenzene	10.061	112	828239	150.763	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	291433	153.733	ug/l	98
67) Ethyl Benzene	10.177	91	1431554	151.026	ug/l	99
68) m/p-Xylenes	10.287	106	1059776	300.381	ug/l	99
69) o-Xylene	10.628	106	521840	152.920	ug/l	99
70) Styrene	10.640	104	917532	153.449	ug/l	99
71) Bromoform	10.781	173	229683	162.262	ug/l	99
73) Isopropylbenzene	10.945	105	1321409	151.477	ug/l	99
74) N-amyl acetate	10.829	43	636879	160.099	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	403906	153.035	ug/l	99
76) 1,2,3-Trichloropropane	11.226	75	470623	202.576	ug/l	89
77) Bromobenzene	11.183	156	328336	152.818	ug/l	99
78) n-propylbenzene	11.287	91	1550316	150.337	ug/l	99
79) 2-Chlorotoluene	11.348	91	939707	148.781	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	1091593	152.306	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	145921	160.176	ug/l	97
82) 4-Chlorotoluene	11.439	91	1127233	151.112	ug/l	100
83) tert-Butylbenzene	11.701	119	1106532	150.819	ug/l	99
84) 1,2,4-Trimethylbenzene	11.738	105	1106914	152.336	ug/l	100
85) sec-Butylbenzene	11.872	105	1319819	151.448	ug/l	99
86) p-Isopropyltoluene	11.994	119	1103210	149.530	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	605123	151.633	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	613617	149.814	ug/l	99
89) n-Butylbenzene	12.317	91	1032357	151.222	ug/l	100
90) Hexachloroethane	12.518	117	211472	163.258	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	582565	153.227	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	89415	167.332	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	387652	156.884	ug/l	98
94) Hexachlorobutadiene	13.707	225	121791	145.110	ug/l	99
95) Naphthalene	13.756	128	1229363	163.388	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	369382	160.704	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Sep 22 01:52:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

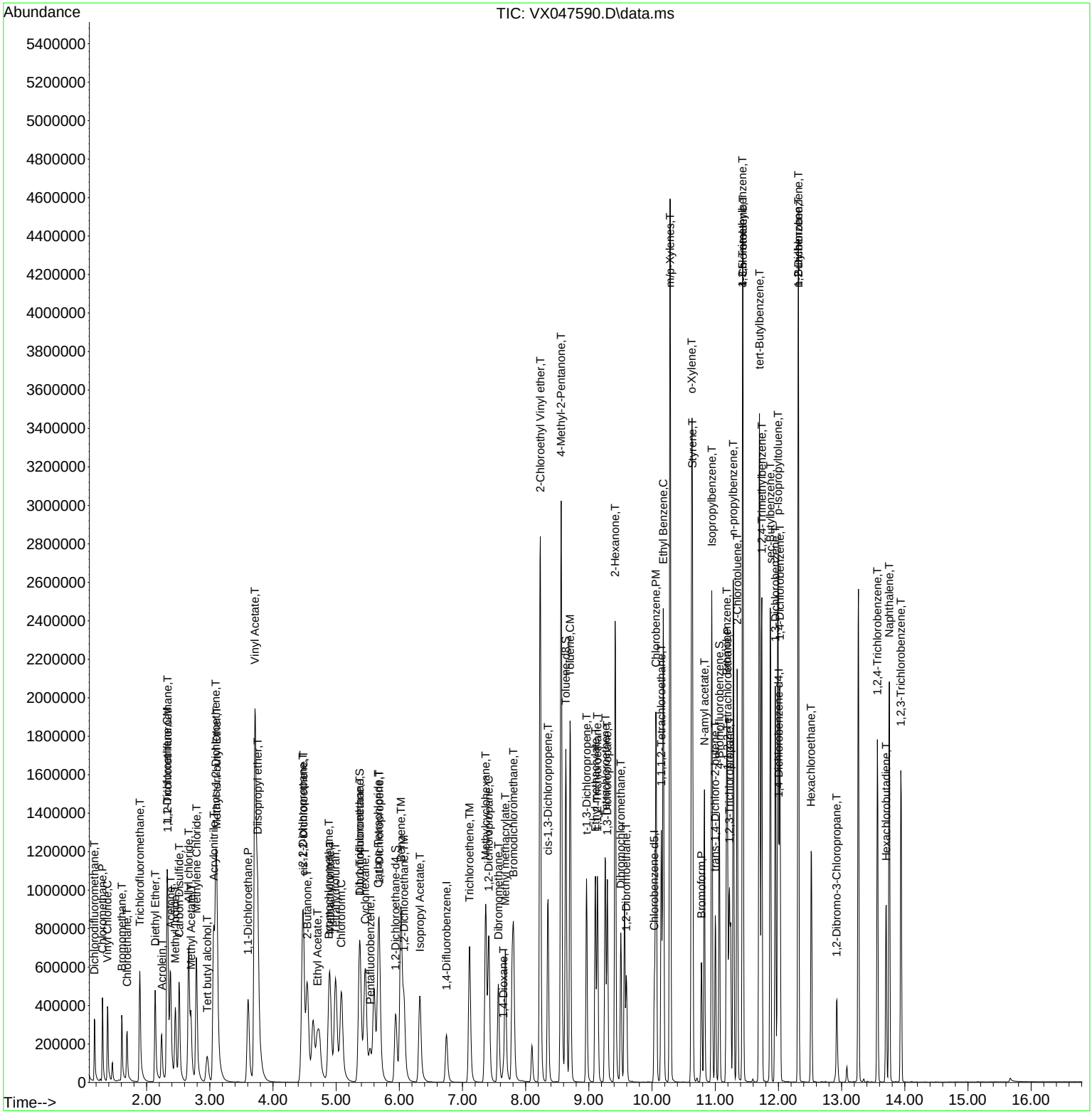
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

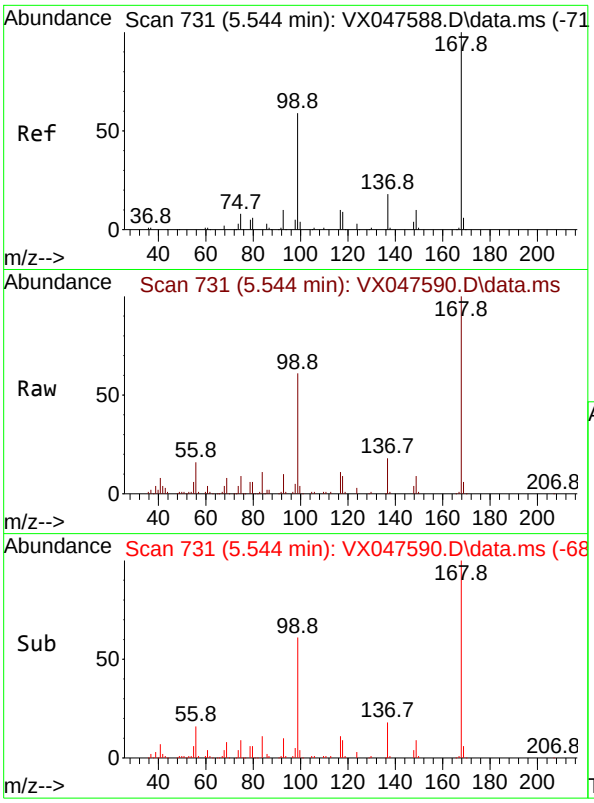
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Sep 22 01:52:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



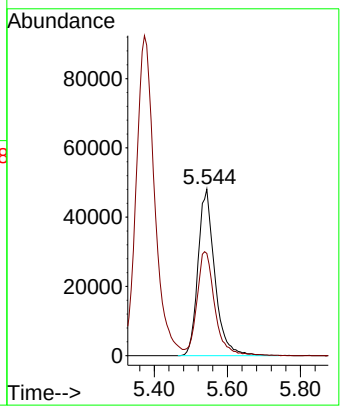


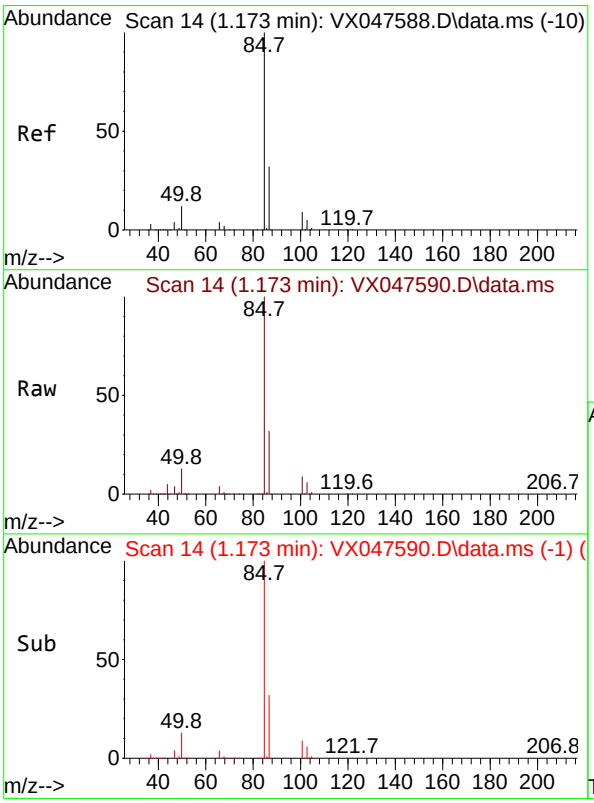
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 153177

Ion	Ratio	Lower	Upper
168	100		
99	61.1	48.8	73.2

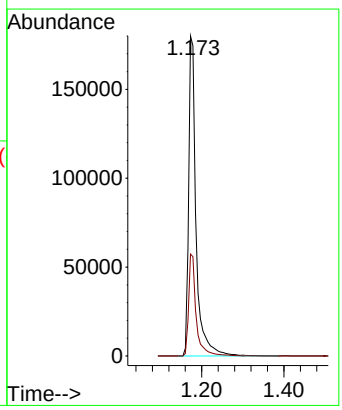


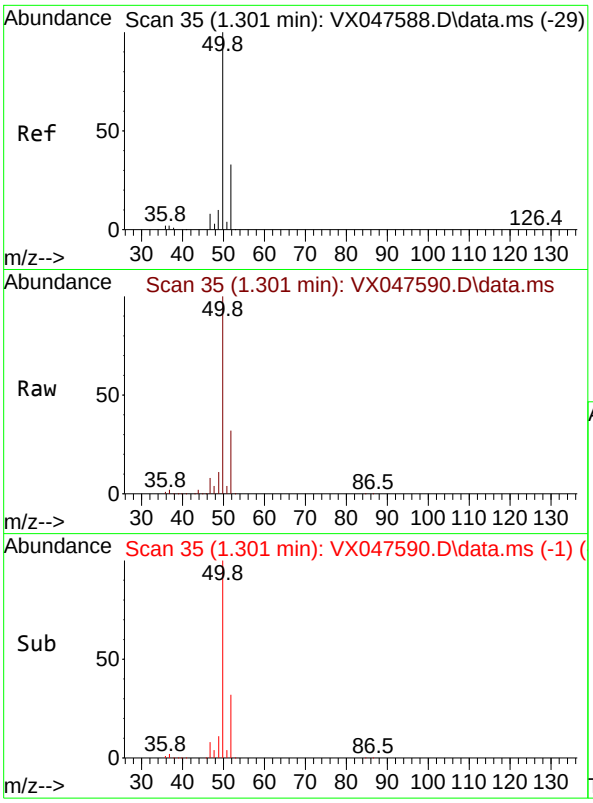


#2
Dichlorodifluoromethane
Concen: 142.586 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 85 Resp: 226166

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.8	47.3



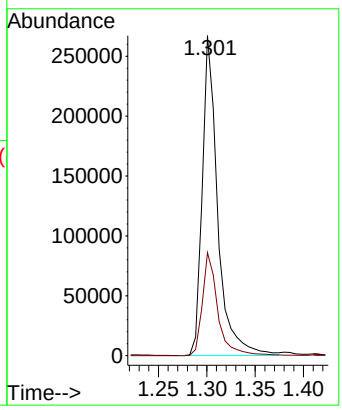


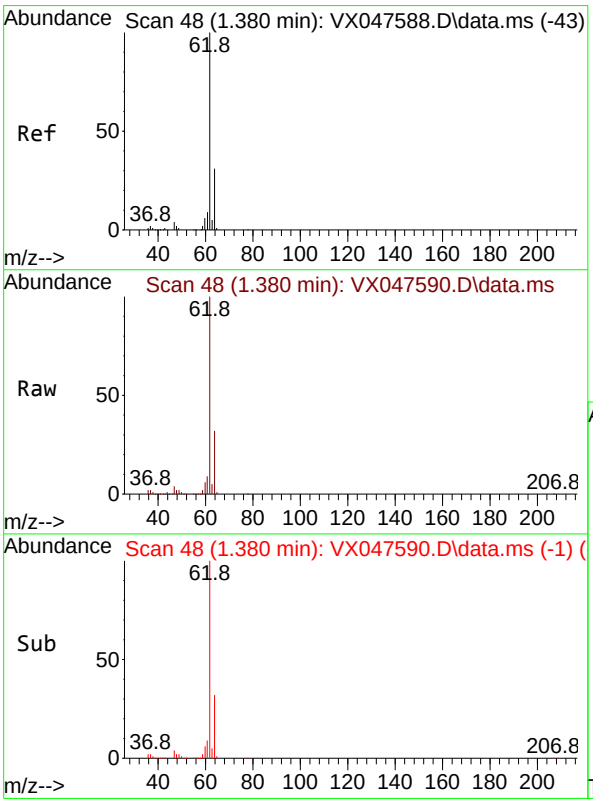
#3
Chloromethane
Concen: 142.593 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 297259

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1

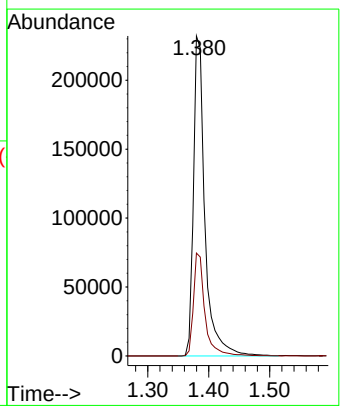


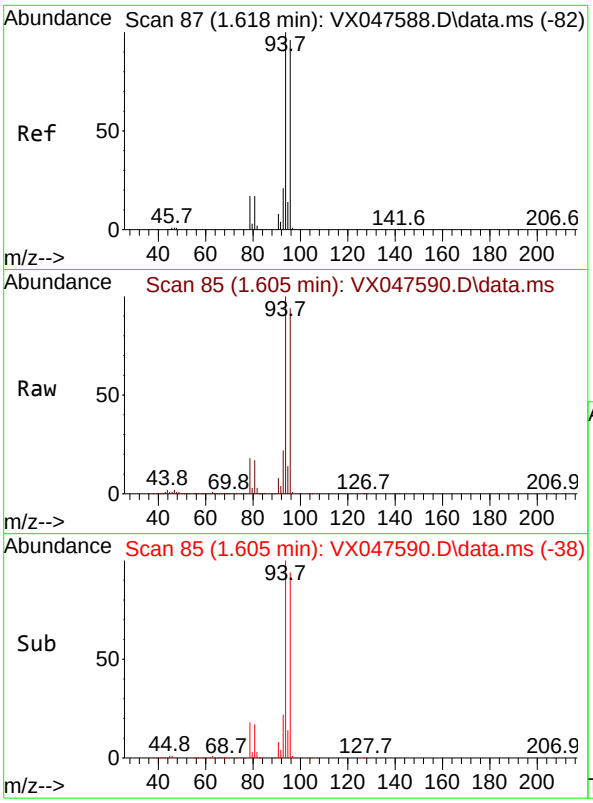


#4
Vinyl Chloride
Concen: 148.140 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 302303

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.9	37.3



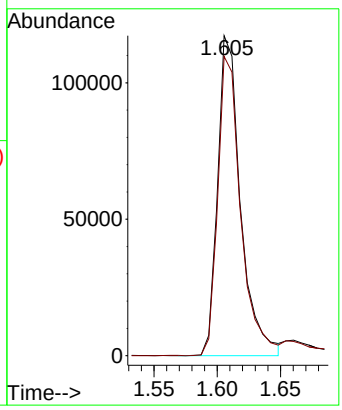


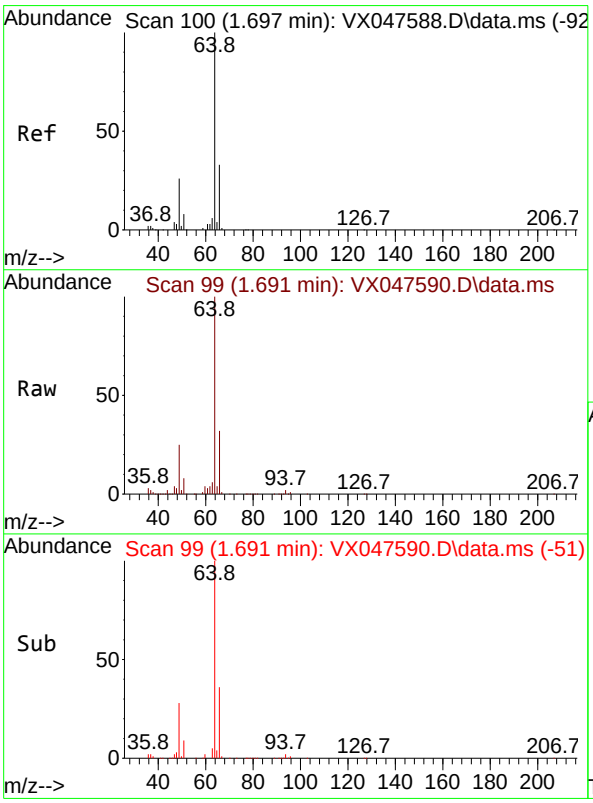
#5
Bromomethane
Concen: 114.019 ug/l
RT: 1.605 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 147541

Ion	Ratio	Lower	Upper
94	100		
96	93.4	76.6	115.0

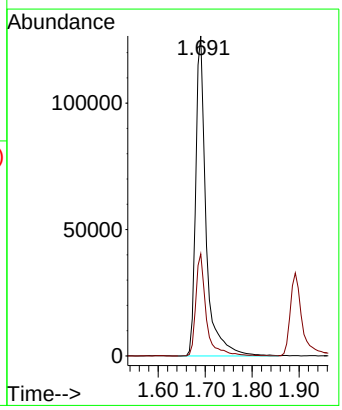


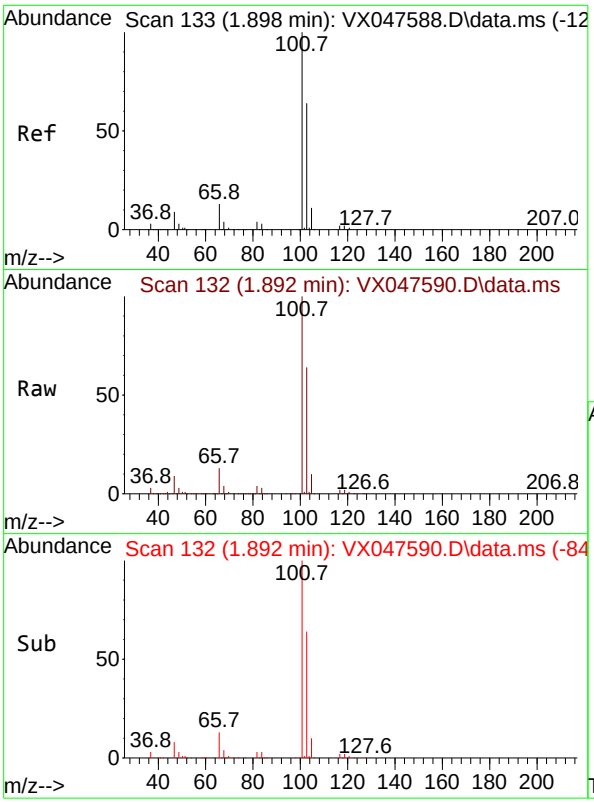


#6
Chloroethane
Concen: 143.652 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 64 Resp: 195927

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1



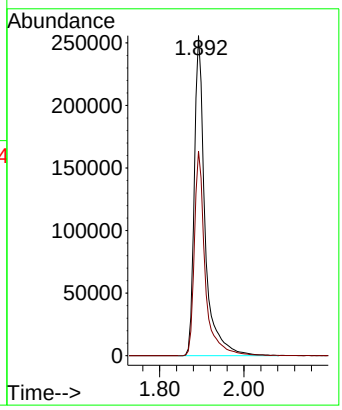


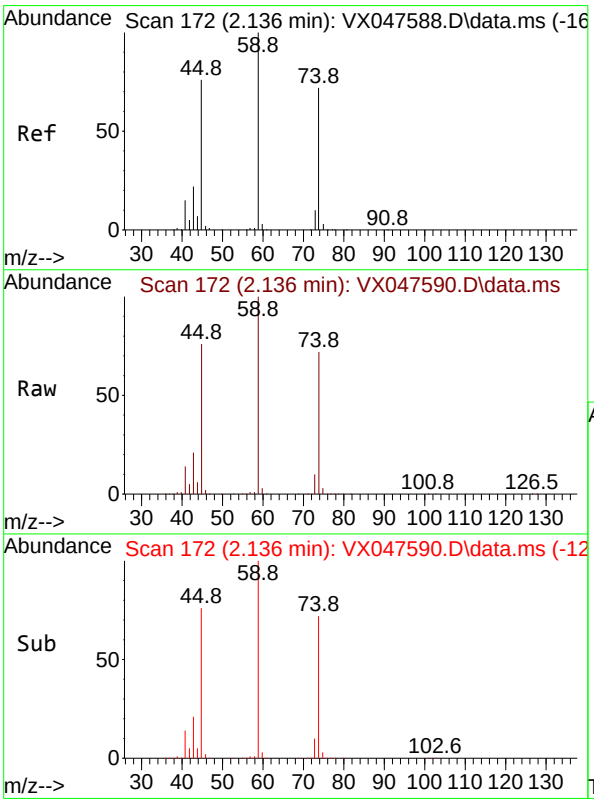
#7
Trichlorofluoromethane
Concen: 149.545 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 453116

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.4	77.2

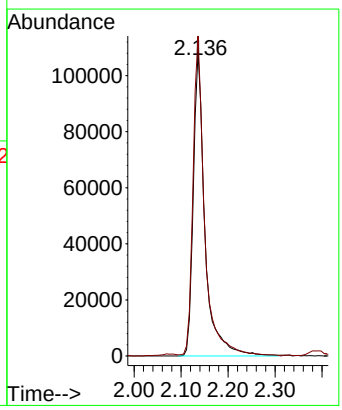


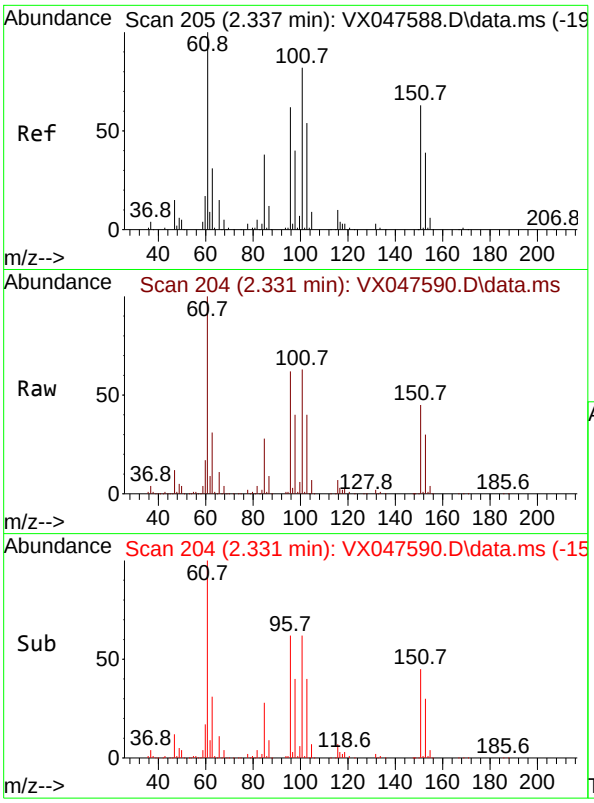


#8
Diethyl Ether
Concen: 151.684 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 74 Resp: 188006

Ion	Ratio	Lower	Upper
74	100		
45	105.5	52.3	156.8



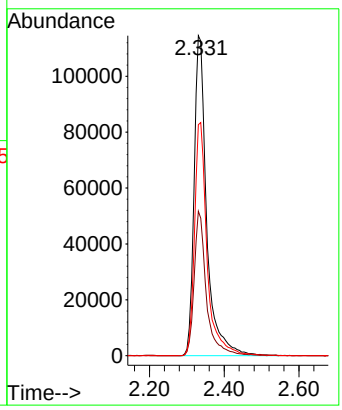


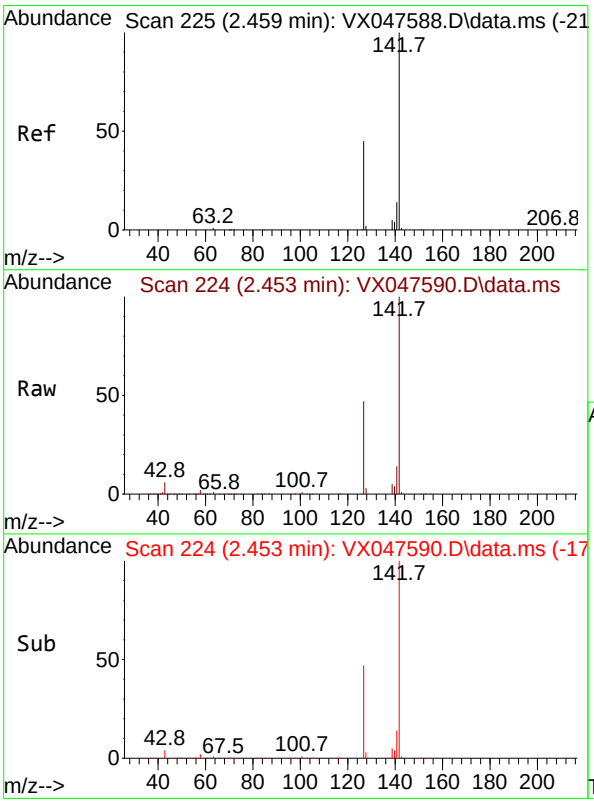
#9
1,1,2-Trichlorotrifluoroethane
Concen: 151.264 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 267995

Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.5	53.3
151	73.2	59.4	89.0

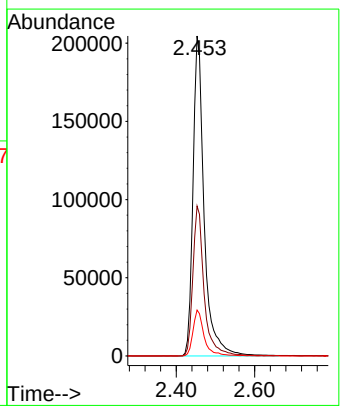


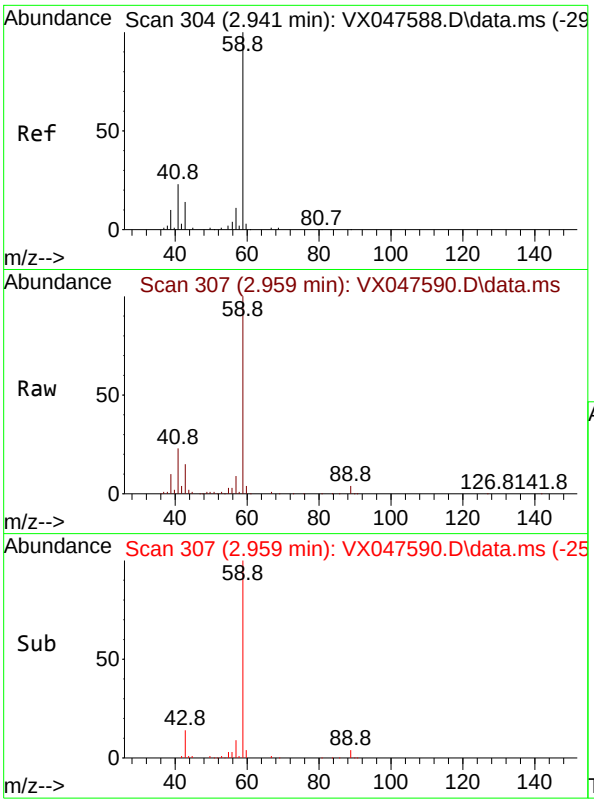


#10
Methyl Iodide
Concen: 147.384 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:142 Resp: 407242

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.3	11.4	17.0



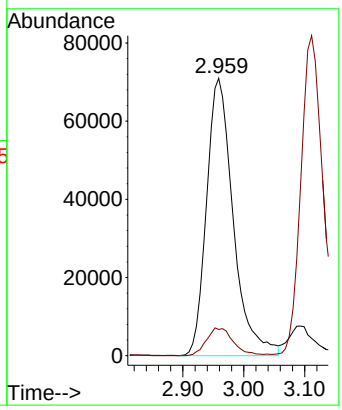


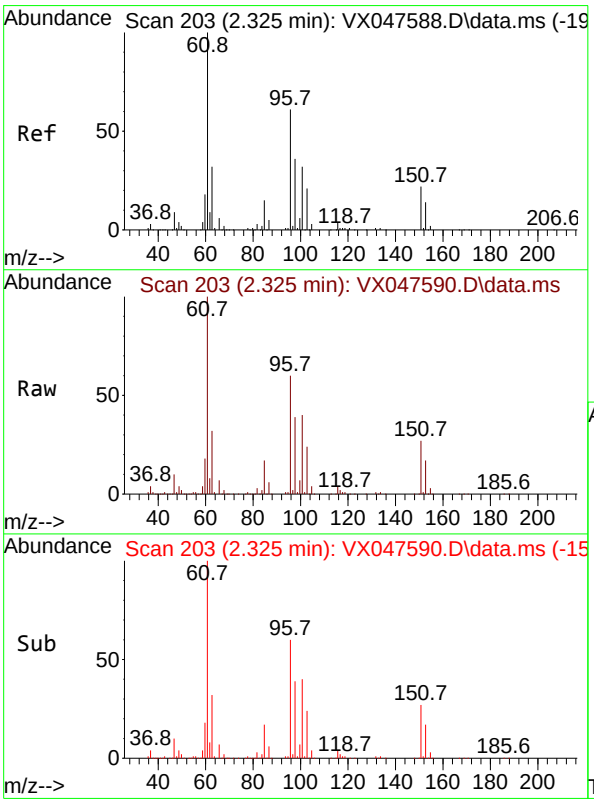
#11
Tert butyl alcohol
Concen: 795.166 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 215927

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5

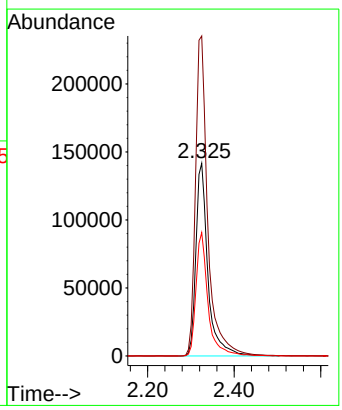


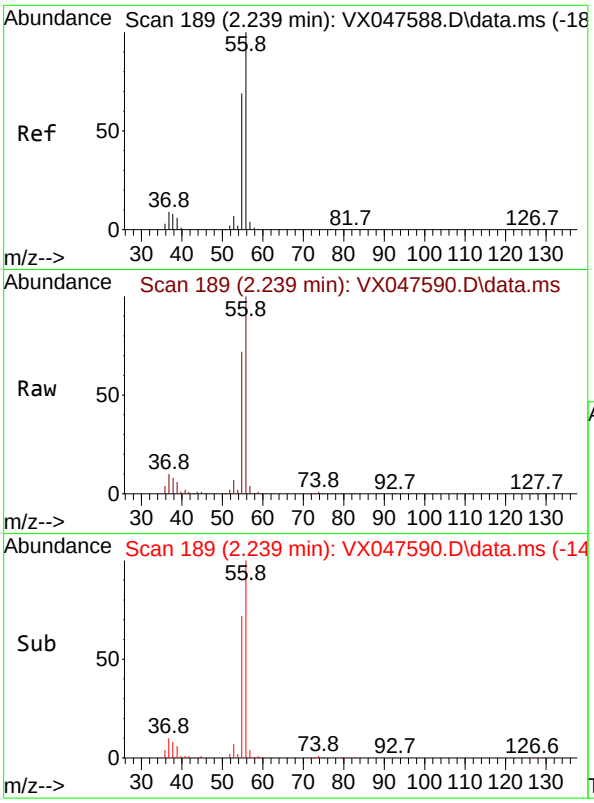


#12
1,1-Dichloroethene
Concen: 150.388 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 273692

Ion	Ratio	Lower	Upper
96	100		
61	166.1	131.0	196.6
98	64.0	47.7	71.5



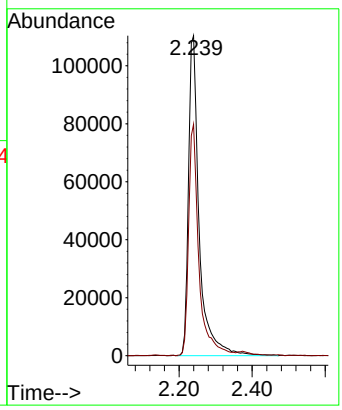


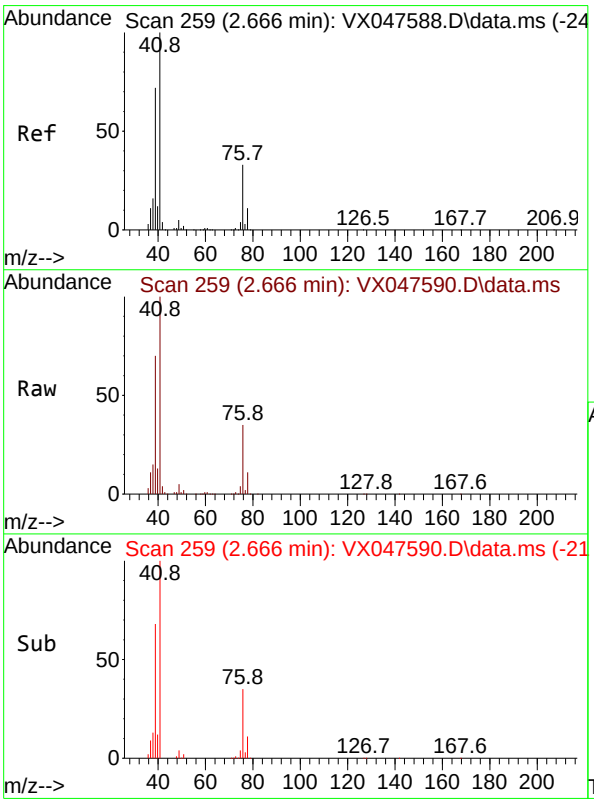
#13
Acrolein
Concen: 894.203 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 223763

Ion	Ratio	Lower	Upper
56	100		
55	69.6	57.2	85.8

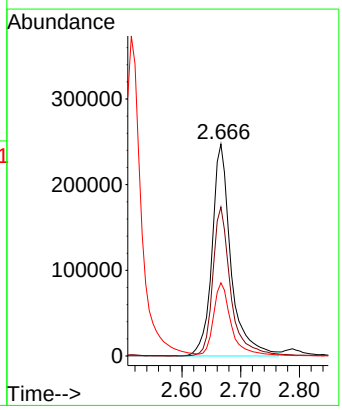


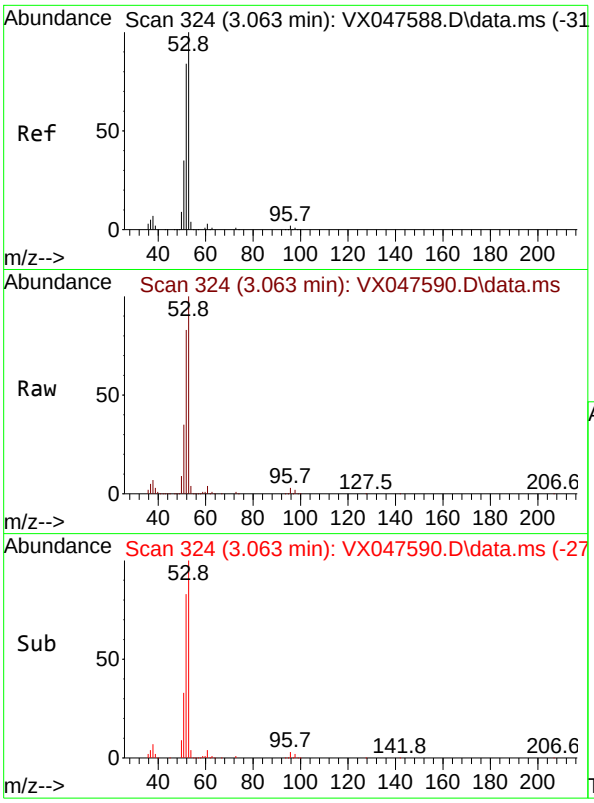


#14
Allyl chloride
Concen: 147.727 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 554779

Ion	Ratio	Lower	Upper
41	100		
39	67.3	54.7	82.1
76	32.4	25.7	38.5



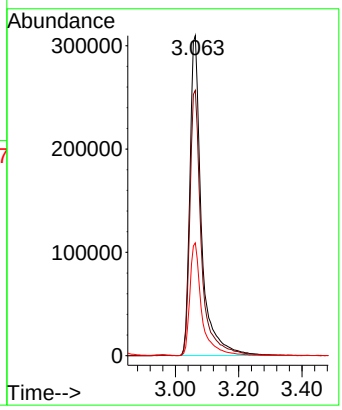


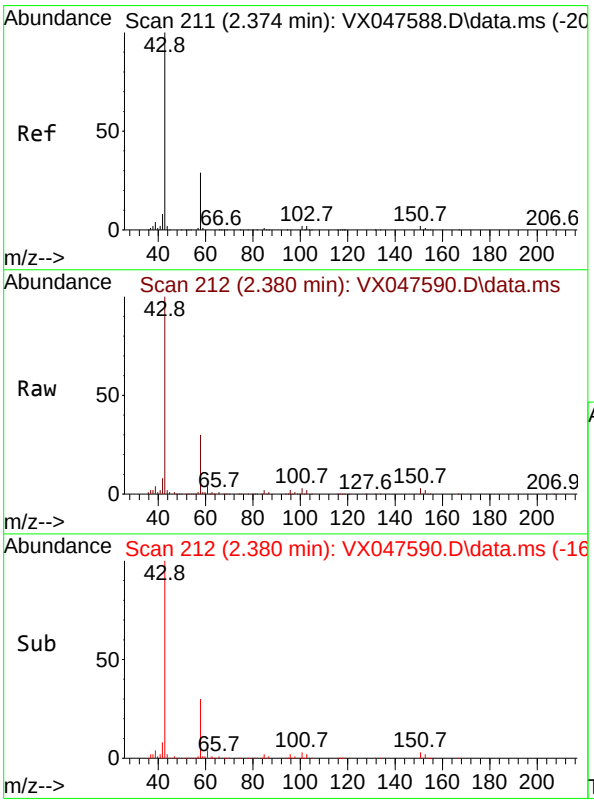
#15
Acrylonitrile
Concen: 786.201 ug/l
RT: 3.063 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 790790

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.1	29.5	44.3

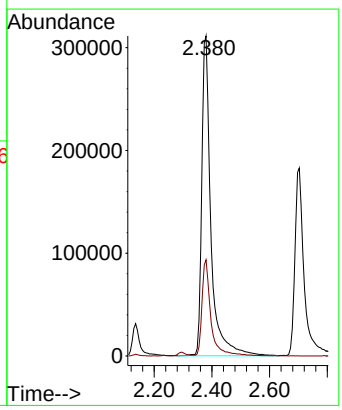


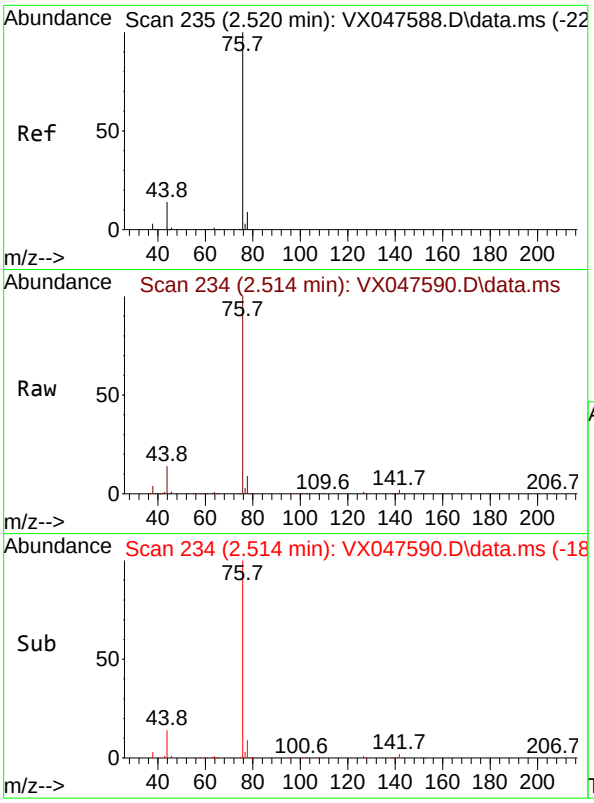


#16
Acetone
Concen: 647.201 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 686119

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0



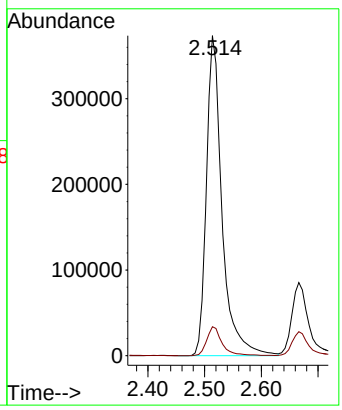


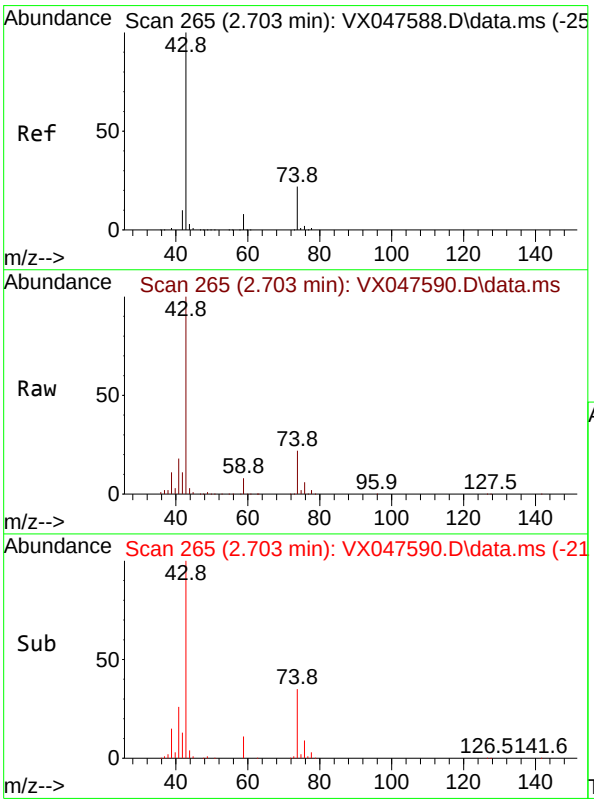
#17
Carbon Disulfide
Concen: 143.412 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 714503

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2

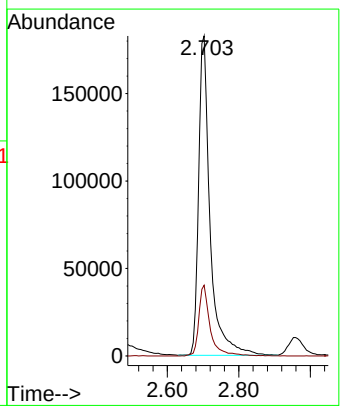


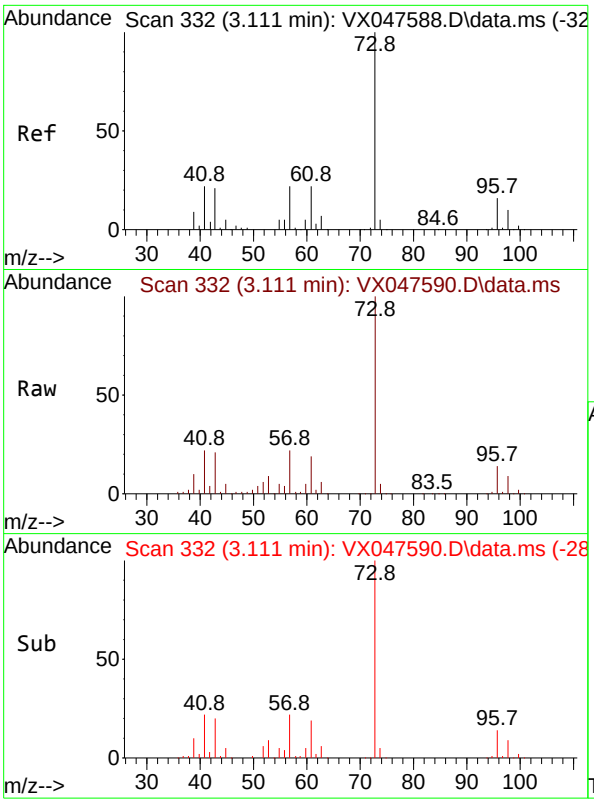


#18
Methyl Acetate
Concen: 171.548 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 404736

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2



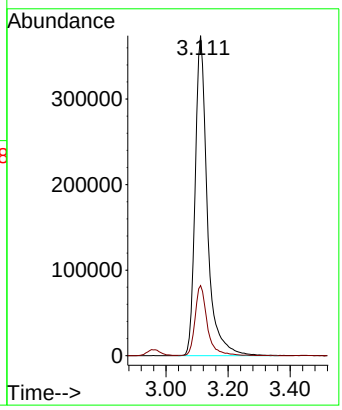


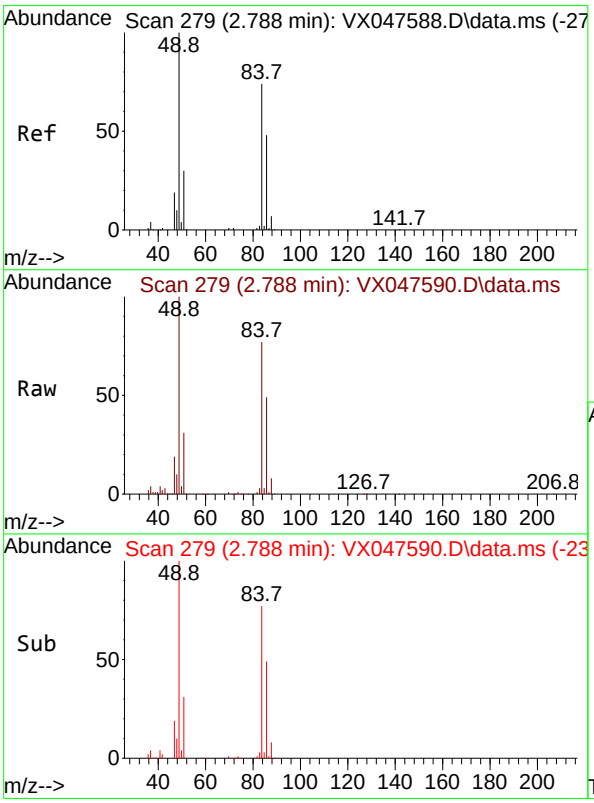
#19
Methyl tert-butyl Ether
Concen: 152.826 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 1015295

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.2

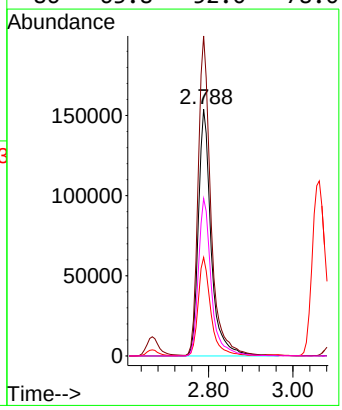


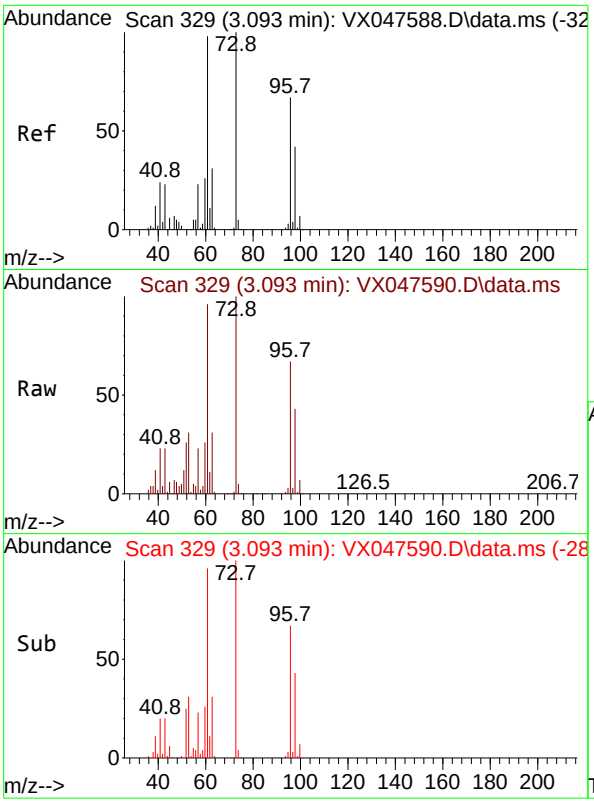


#20
Methylene Chloride
Concen: 144.398 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 84 Resp: 324032

Ion	Ratio	Lower	Upper
84	100		
49	129.4	108.6	162.8
51	39.9	32.6	48.8
86	63.8	52.0	78.0



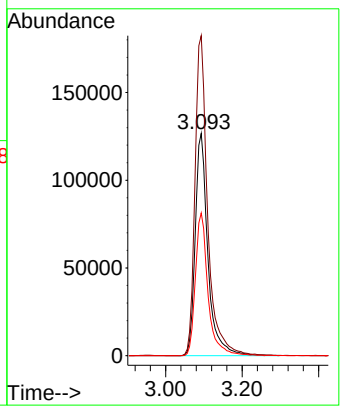


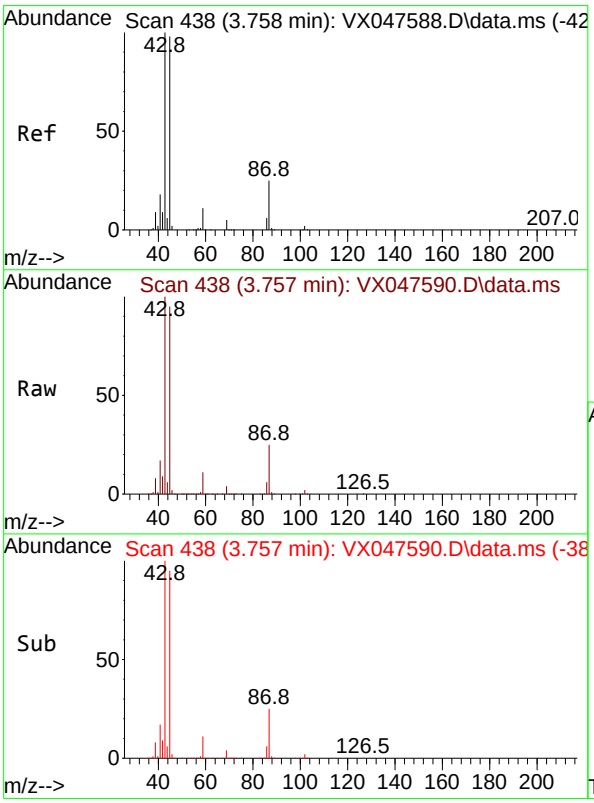
#21
trans-1,2-Dichloroethene
Concen: 148.833 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 291616

Ion	Ratio	Lower	Upper
96	100		
61	144.0	116.2	174.2
98	64.3	49.3	73.9

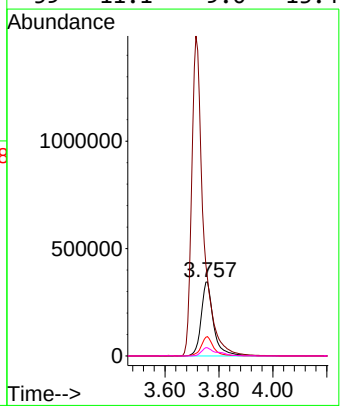


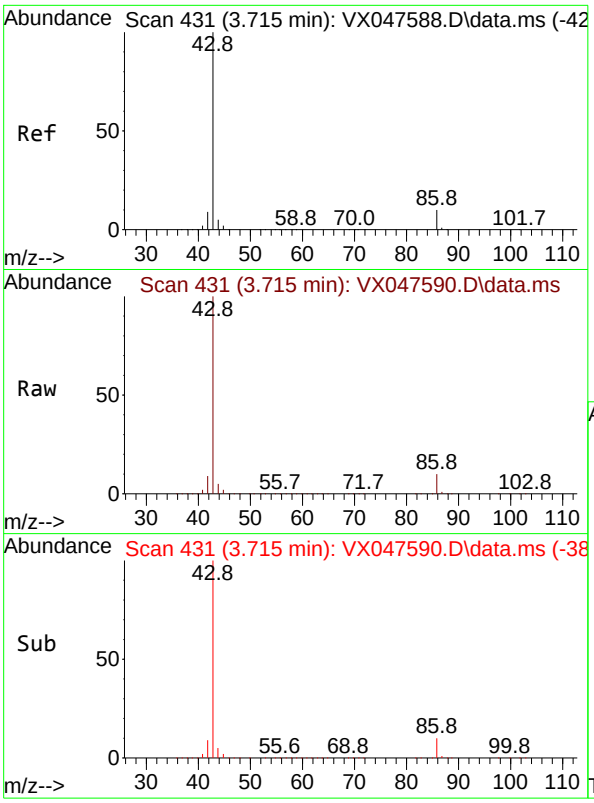


#22
Diisopropyl ether
Concen: 150.551 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 45 Resp: 1095726

Ion	Ratio	Lower	Upper
45	100		
43	104.7	81.0	121.4
87	26.2	20.3	30.5
59	11.1	9.0	13.4



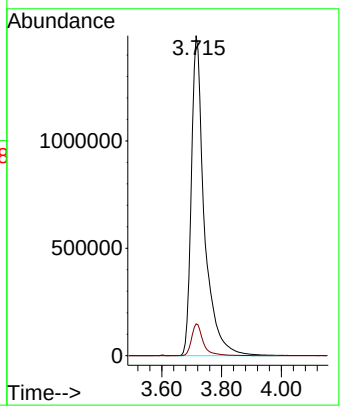


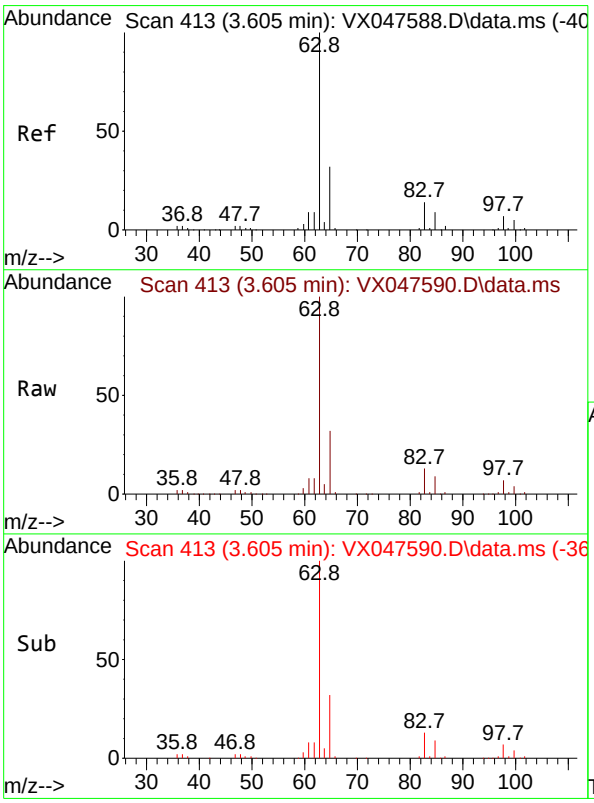
#23
Vinyl Acetate
Concen: 773.364 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 4504849

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

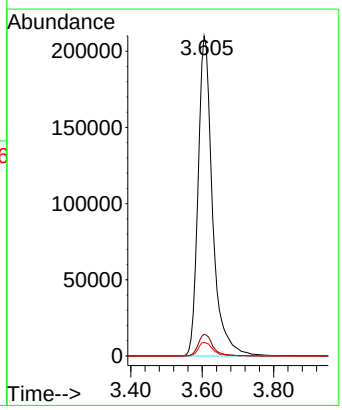


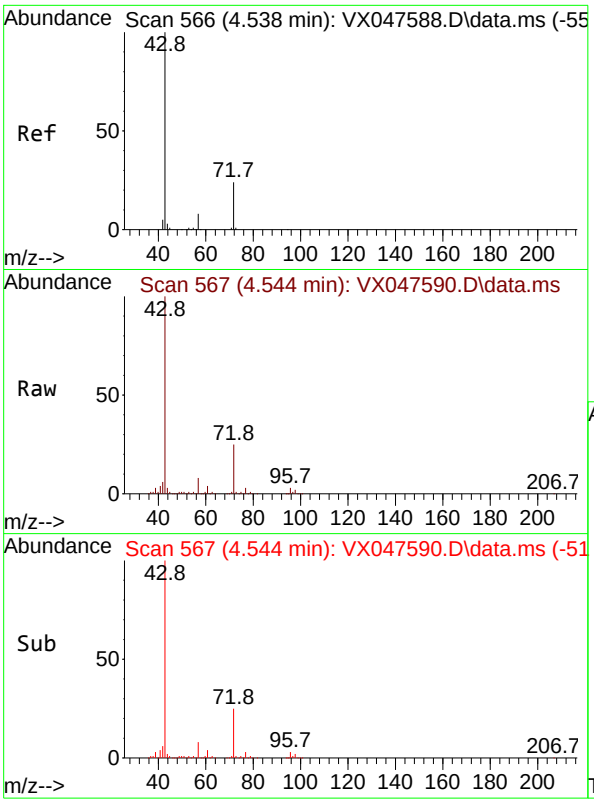


#24
1,1-Dichloroethane
Concen: 151.776 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 587129

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.8	11.2
100	4.3	2.3	6.9



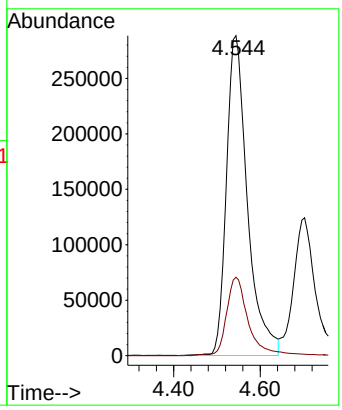


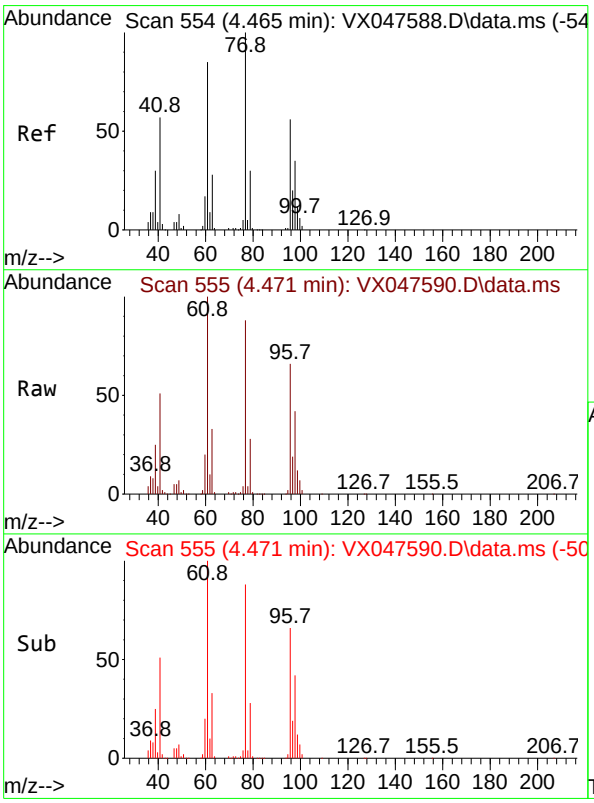
#25
2-Butanone
Concen: 736.502 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 973938

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.1	30.1

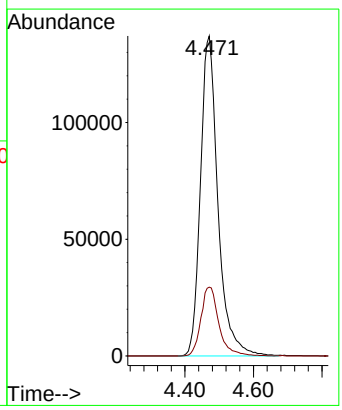


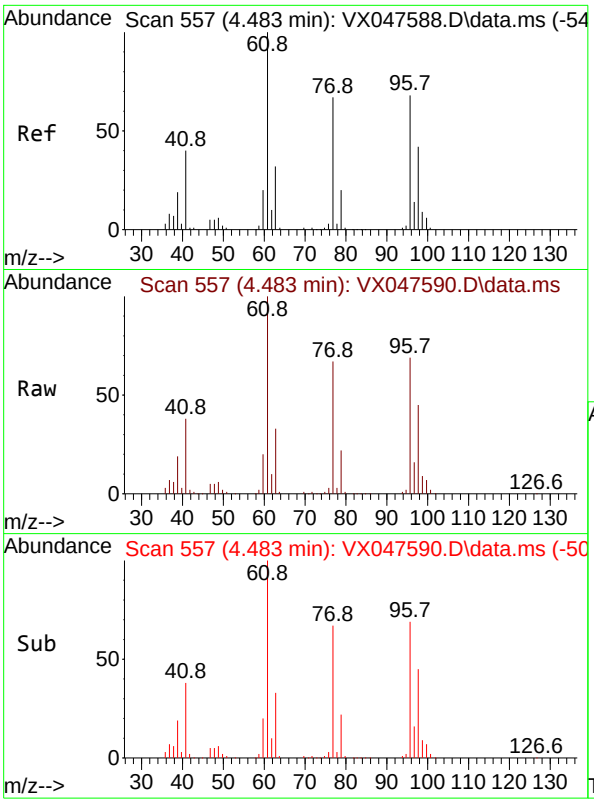


#26
2,2-Dichloropropane
Concen: 151.414 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 77 Resp: 486890

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.9	32.7



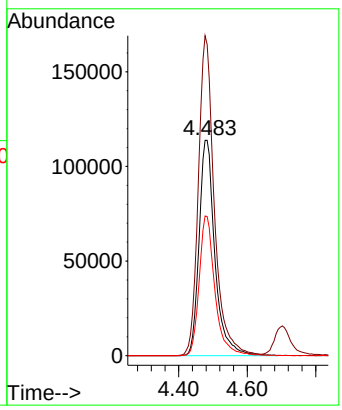


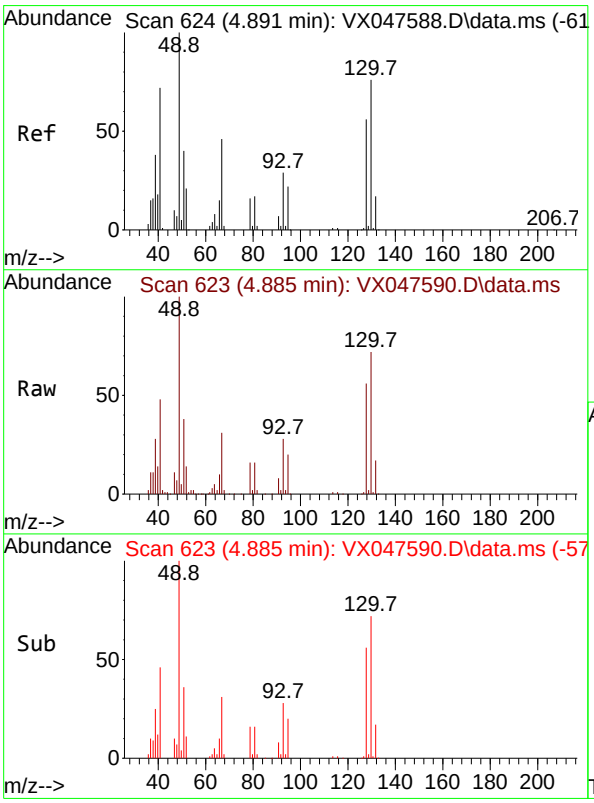
#27
cis-1,2-Dichloroethene
Concen: 152.638 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 366262

Ion	Ratio	Lower	Upper
96	100		
61	149.8	0.0	303.2
98	64.6	0.0	127.8

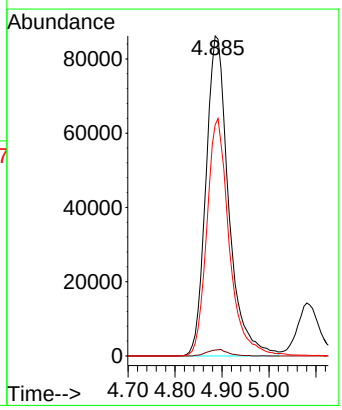


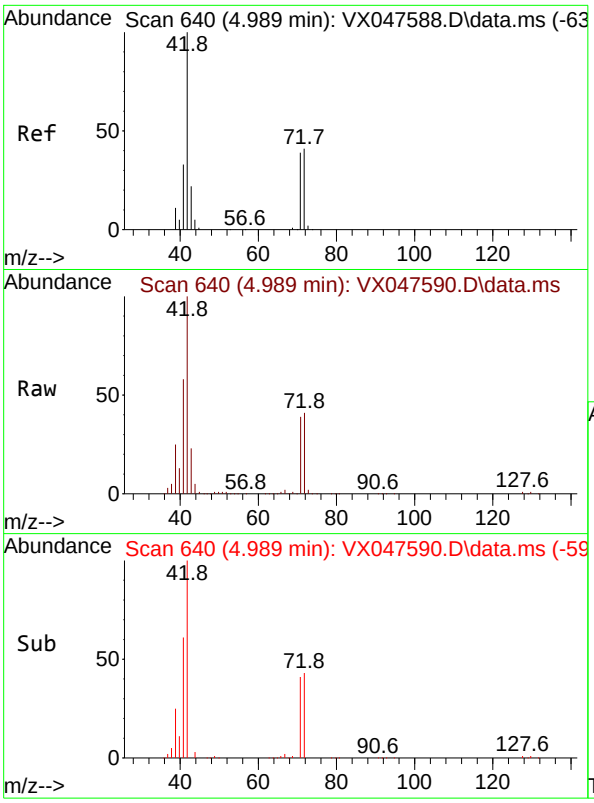


#28
Bromochloromethane
Concen: 171.451 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 49 Resp: 289548

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	73.2	57.8	86.8



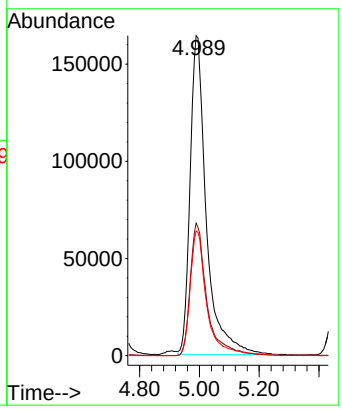


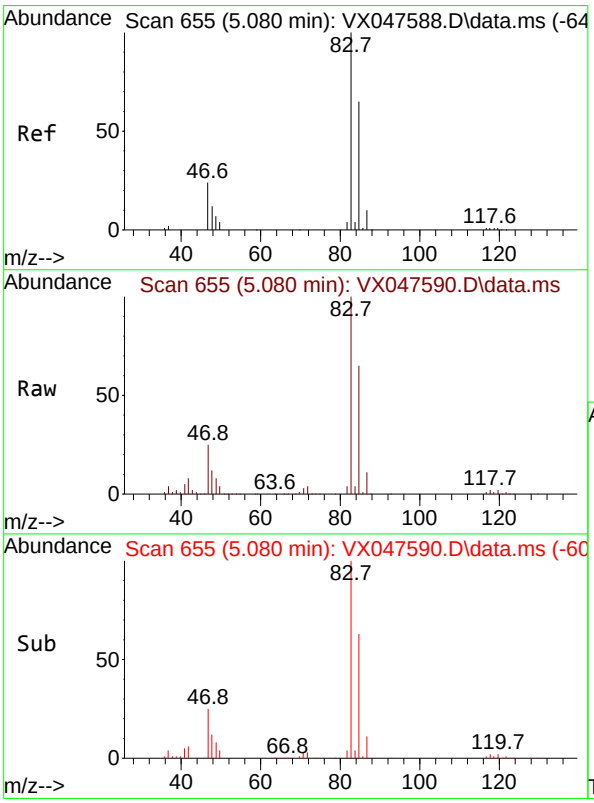
#29
Tetrahydrofuran
Concen: 774.811 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 616374

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.2	51.2
71	39.9	31.9	47.9

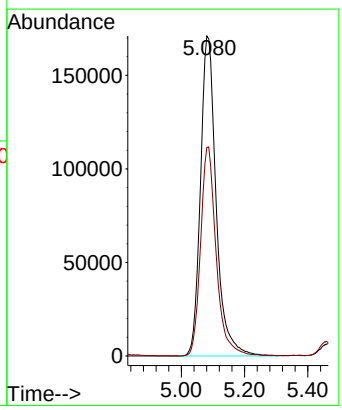


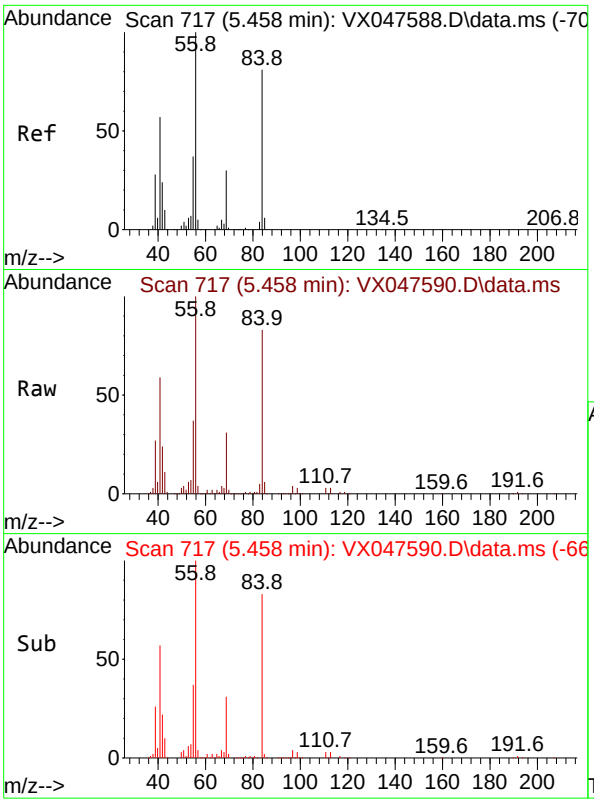


#30
Chloroform
Concen: 151.367 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 591709

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.8	77.6



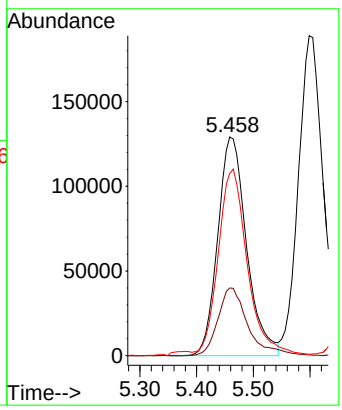


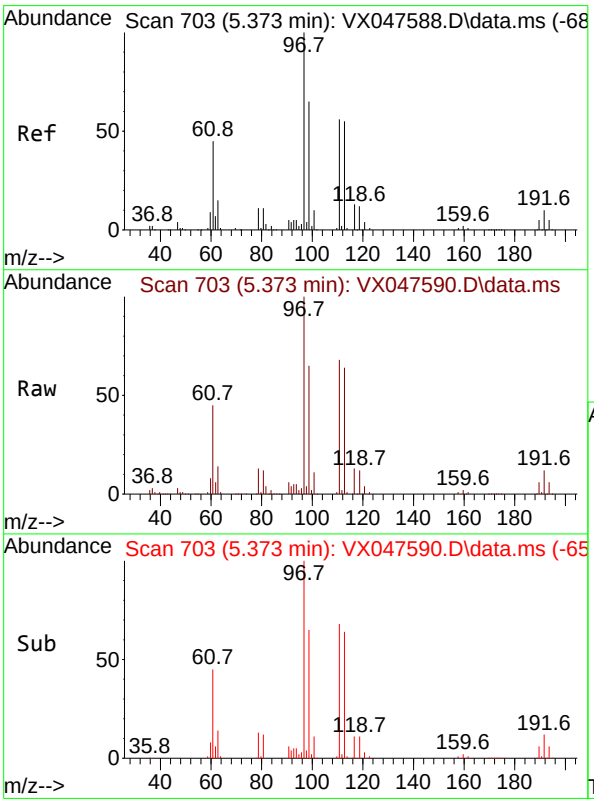
#31
Cyclohexane
Concen: 141.570 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 456119

Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.8	35.8
84	81.5	64.6	97.0

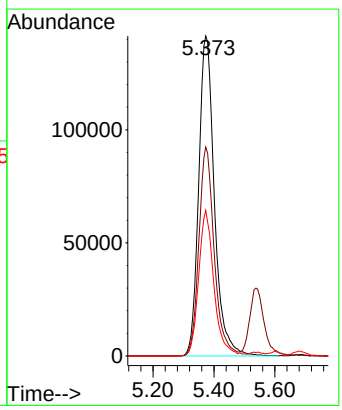


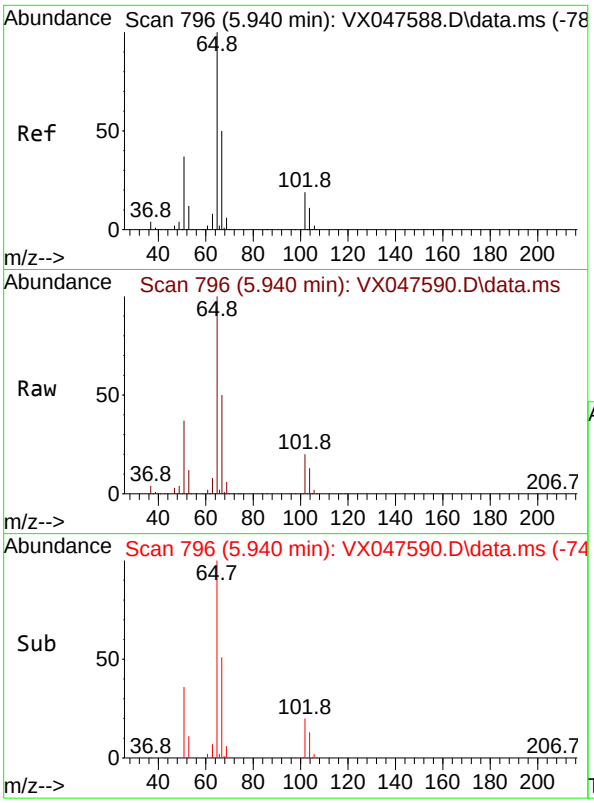


#32
1,1,1-Trichloroethane
Concen: 152.802 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 97 Resp: 506654

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	44.2	35.8	53.8



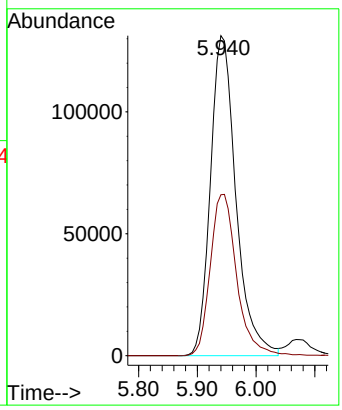


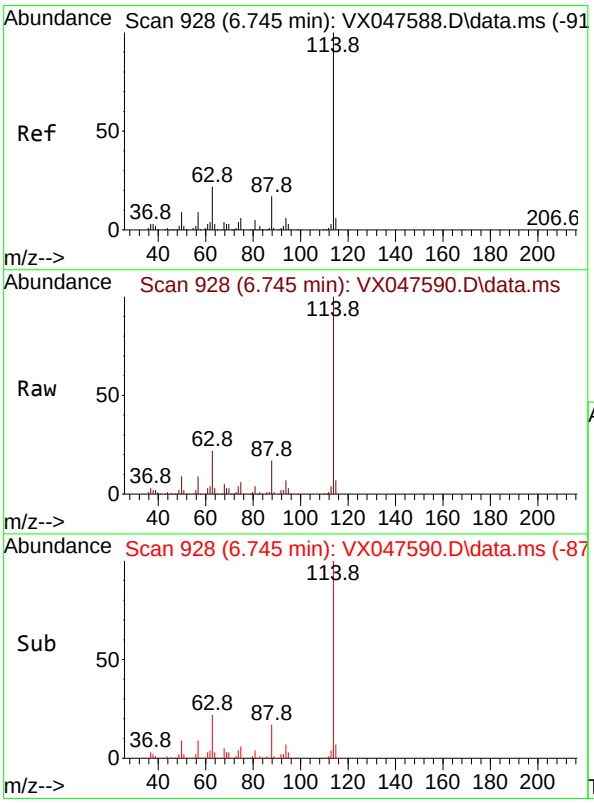
#33
1,2-Dichloroethane-d4
Concen: 162.673 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 396627

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0

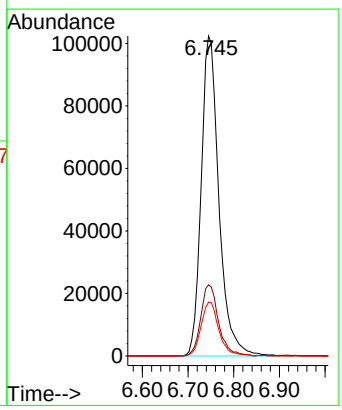


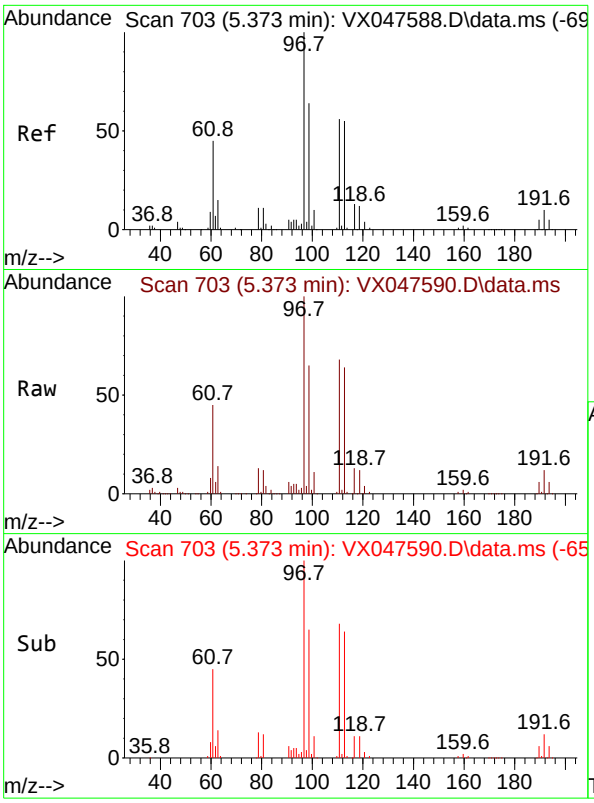


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:114 Resp: 274804

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2



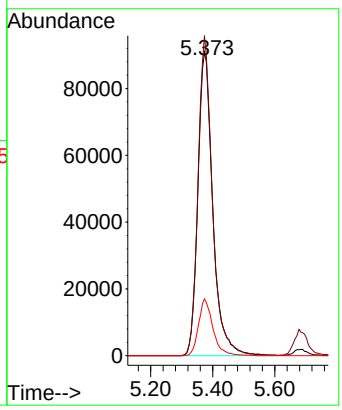


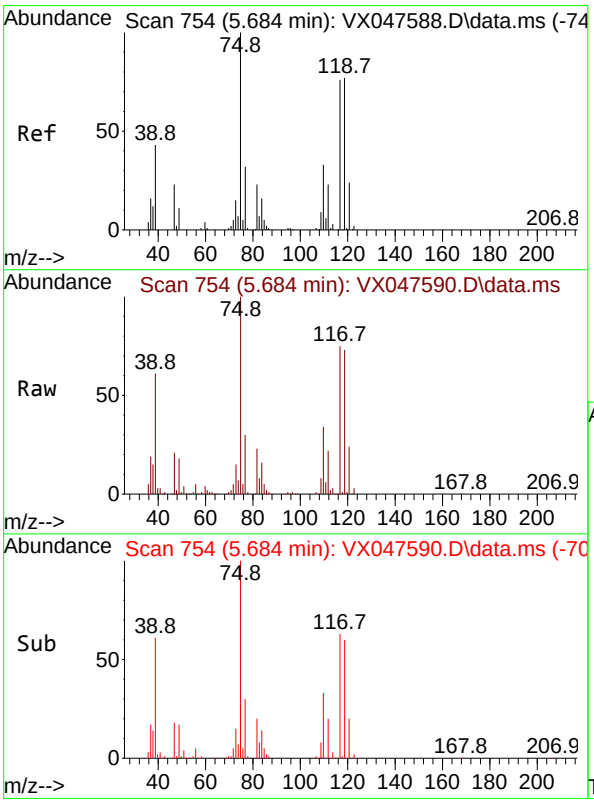
#35
Dibromofluoromethane
Concen: 164.802 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 303728

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.9	121.3
192	18.1	14.2	21.4

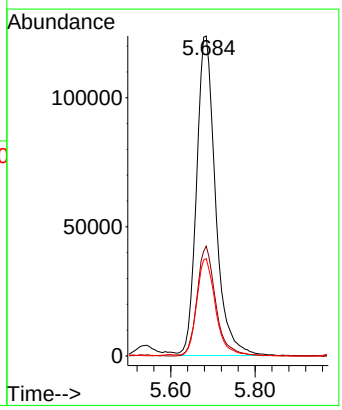


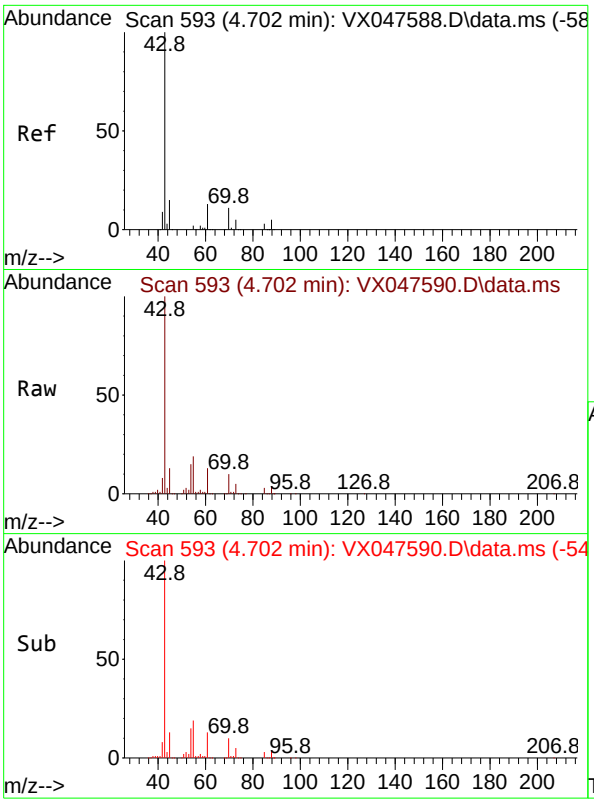


#36
1,1-Dichloropropene
Concen: 143.556 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 386601

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	30.6	24.3	36.5



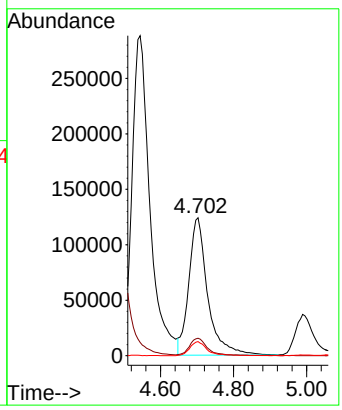


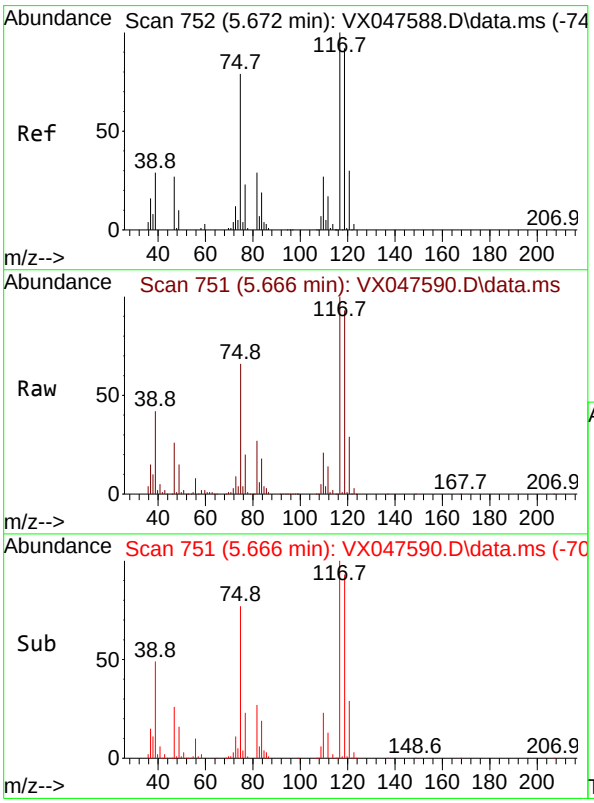
#37
Ethyl Acetate
Concen: 154.141 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 444461

Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.8	14.8
70	9.5	7.9	11.9

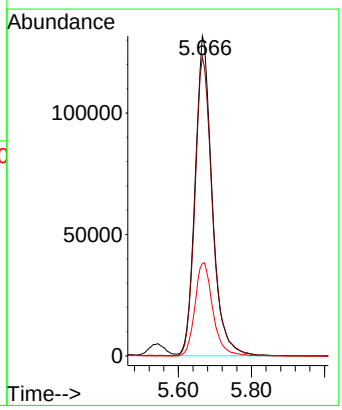


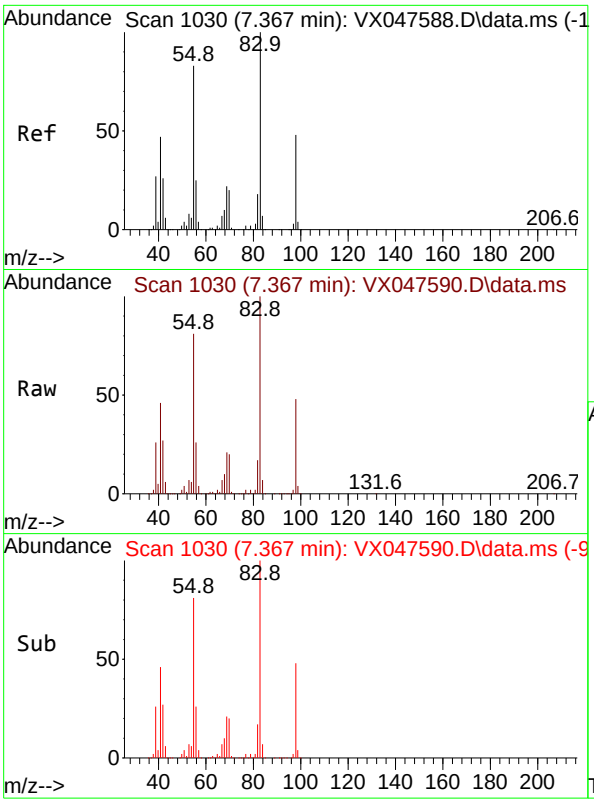


#38
Carbon Tetrachloride
Concen: 146.021 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 427263

Ion	Ratio	Lower	Upper
117	100		
119	93.3	73.4	110.2
121	29.0	23.8	35.6



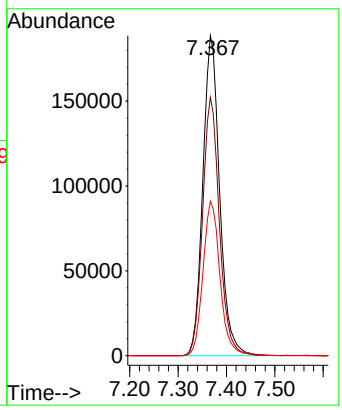


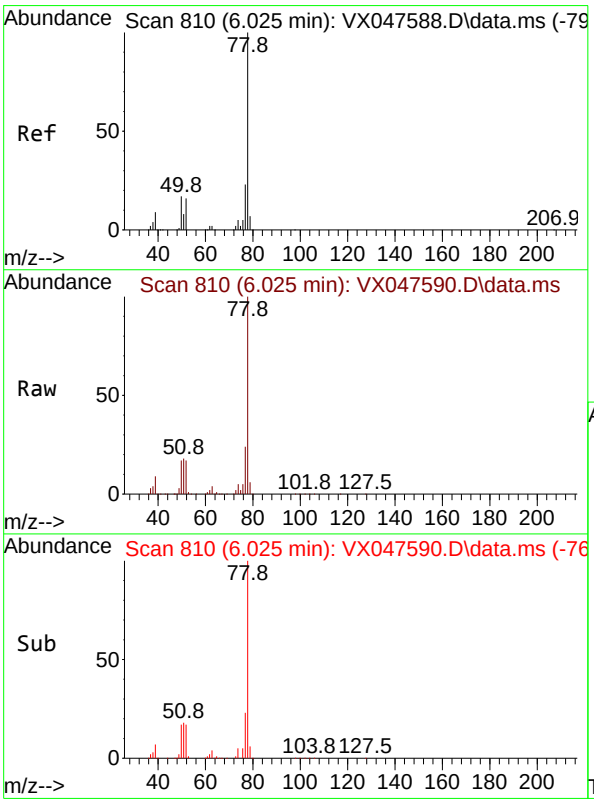
#39
Methylcyclohexane
Concen: 149.395 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 456694

Ion	Ratio	Lower	Upper
83	100		
55	80.7	66.4	99.6
98	48.3	38.1	57.1

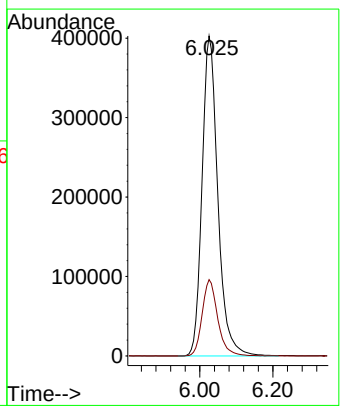


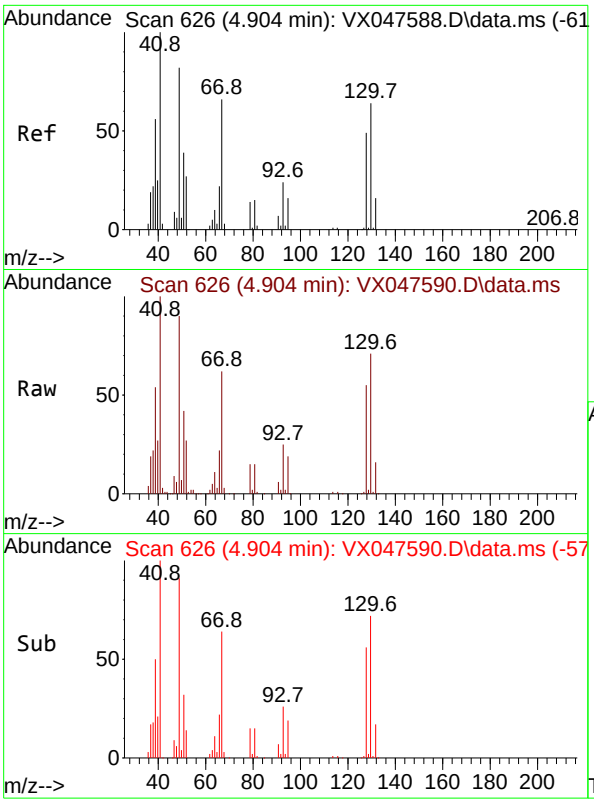


#40
Benzene
Concen: 147.057 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 78 Resp: 1202846

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2



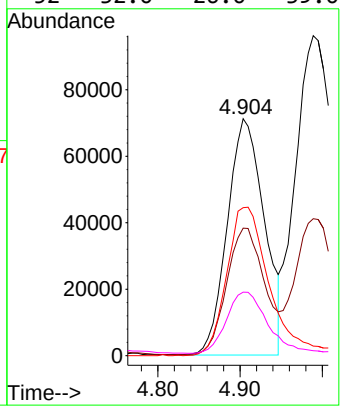


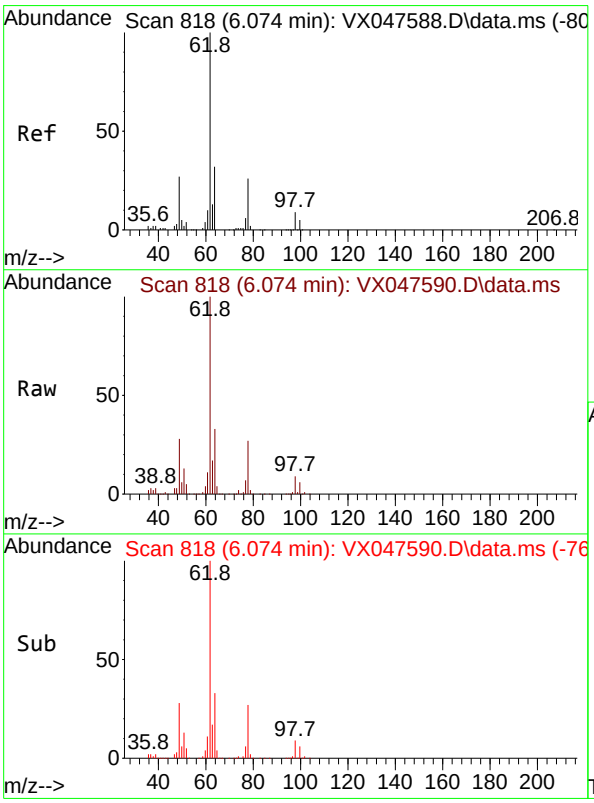
#41
Methacrylonitrile
Concen: 149.951 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 223218

Ion	Ratio	Lower	Upper
41	100		
39	54.5	43.3	64.9
67	74.6	58.6	87.8
52	32.0	26.0	39.0

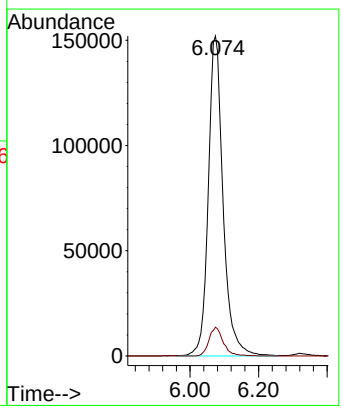


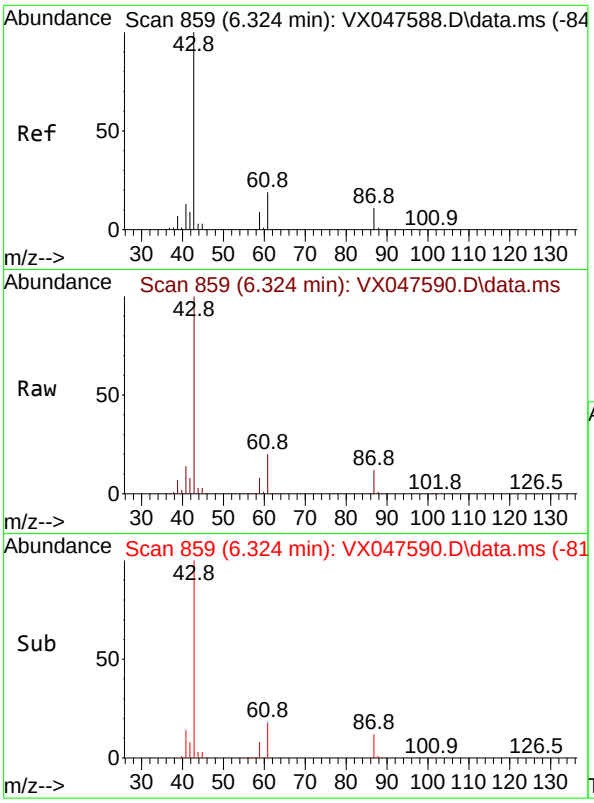


#42
1,2-Dichloroethane
Concen: 146.515 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 455978

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0



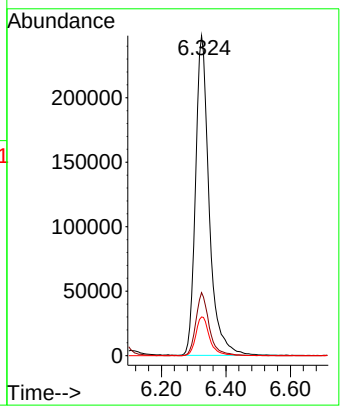


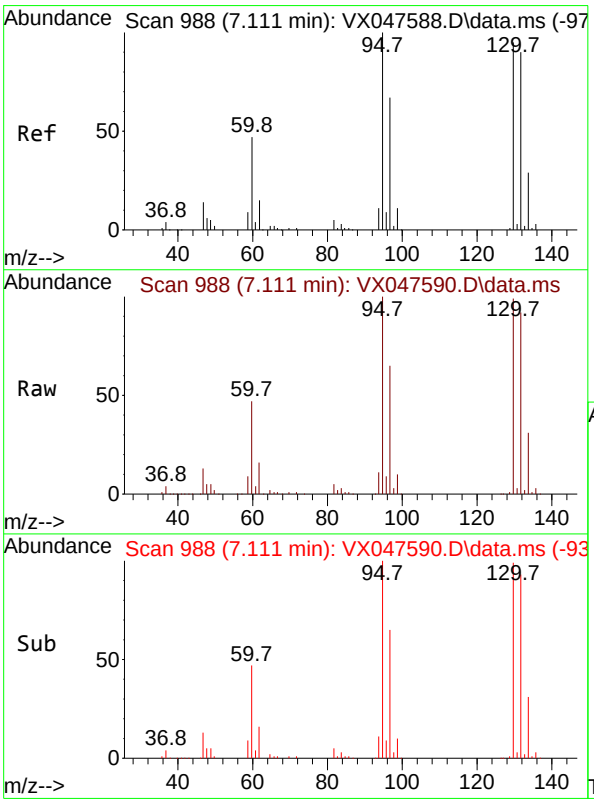
#43
Isopropyl Acetate
Concen: 153.283 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 724888

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.3	9.6	14.4

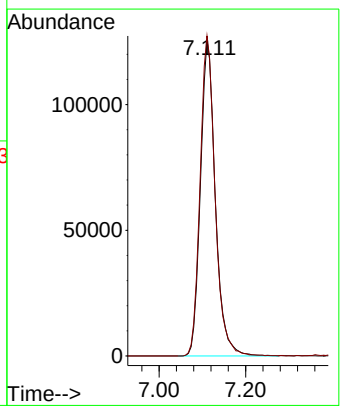


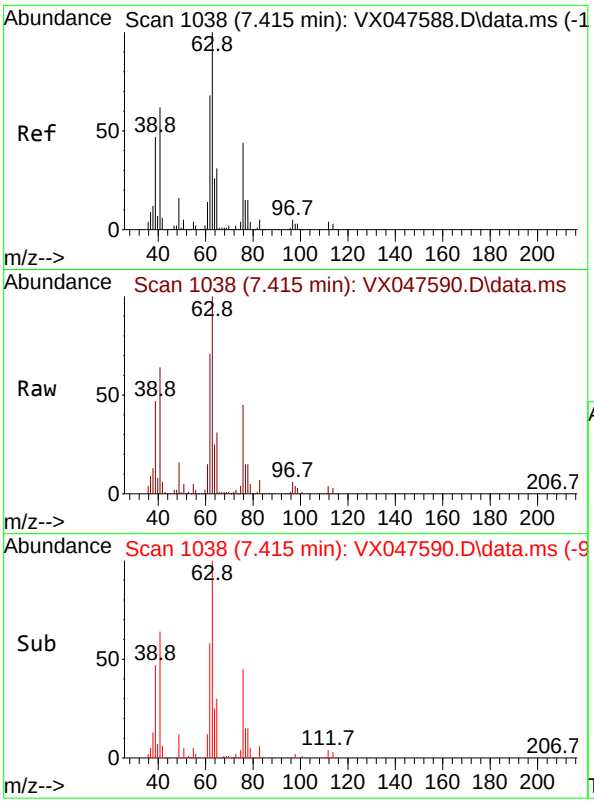


#44
Trichloroethene
Concen: 151.542 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:130 Resp: 299673

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	210.8



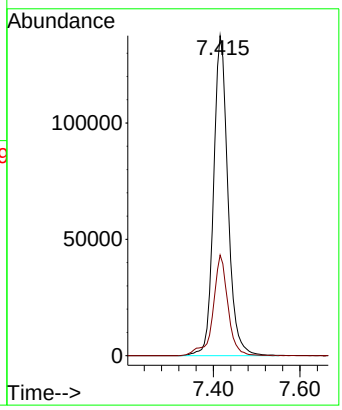


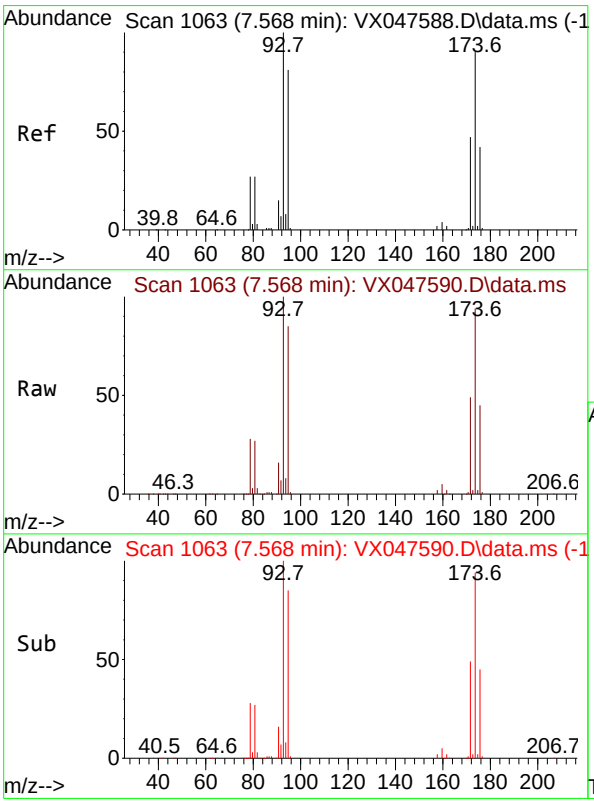
#45
1,2-Dichloropropane
Concen: 151.219 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 316720

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

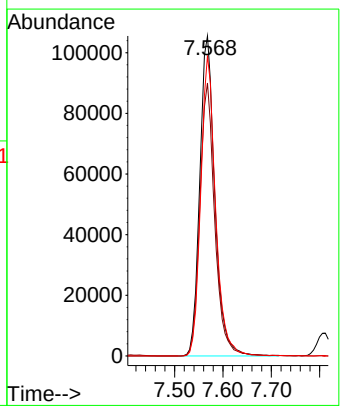


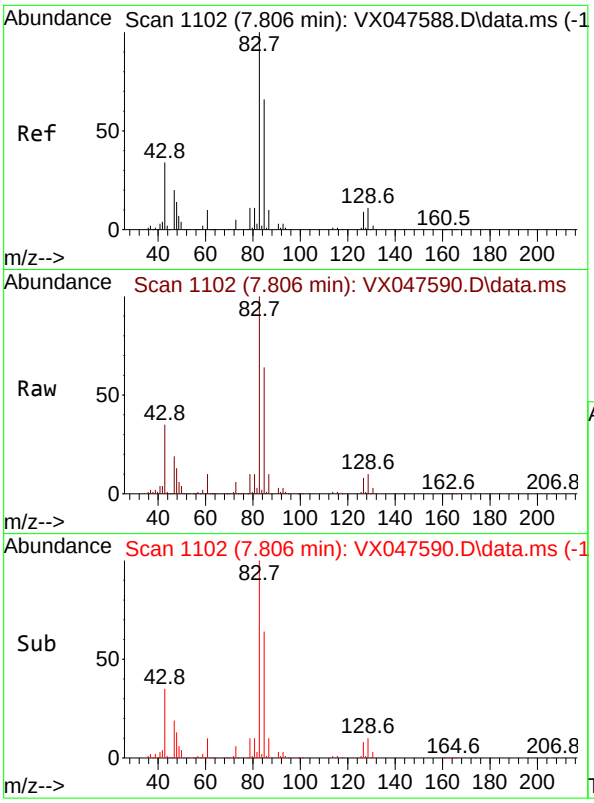


#46
Dibromomethane
Concen: 149.954 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 93 Resp: 228550

Ion	Ratio	Lower	Upper
93	100		
95	84.2	65.0	97.6
174	92.5	71.6	107.4



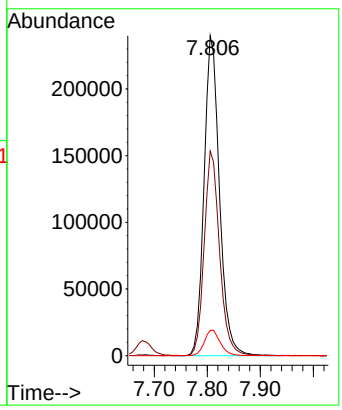


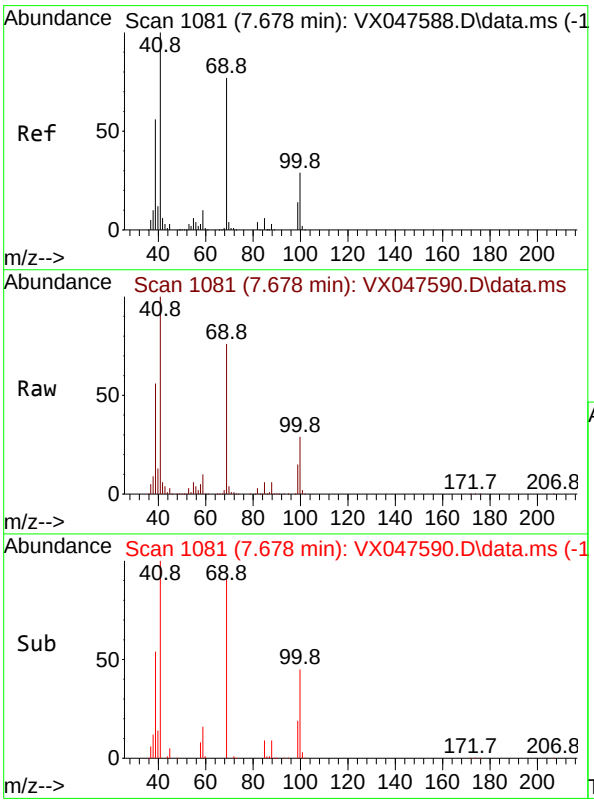
#47
Bromodichloromethane
Concen: 153.710 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 483438

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.5	78.7
127	7.9	6.9	10.3

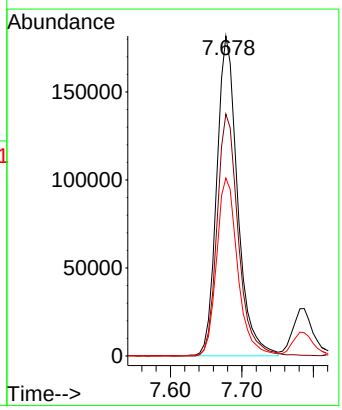


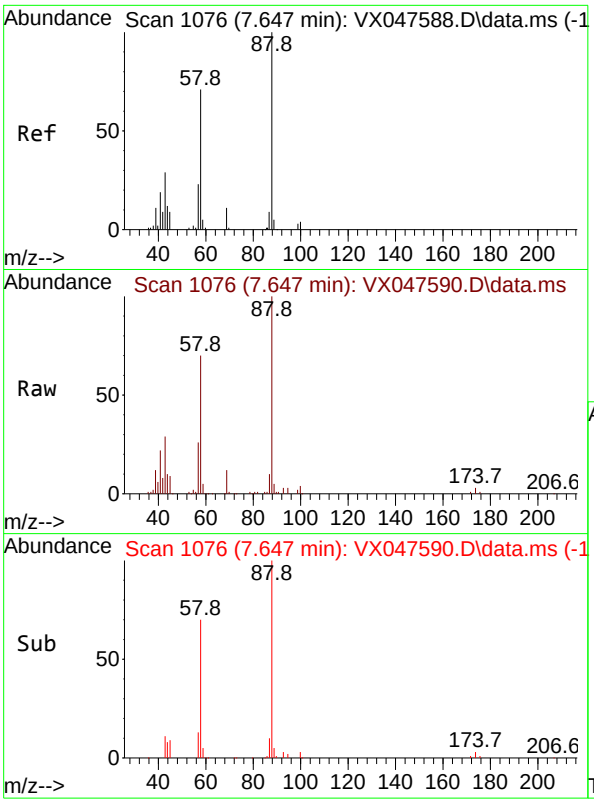


#48
Methyl methacrylate
Concen: 156.194 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 367931

Ion	Ratio	Lower	Upper
41	100		
69	77.2	61.4	92.2
39	56.5	45.8	68.6



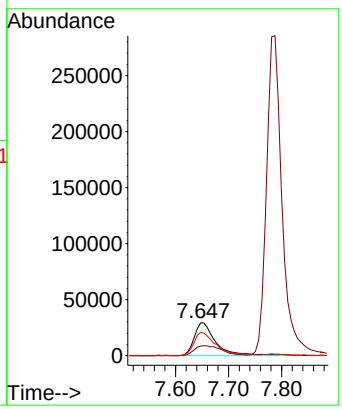


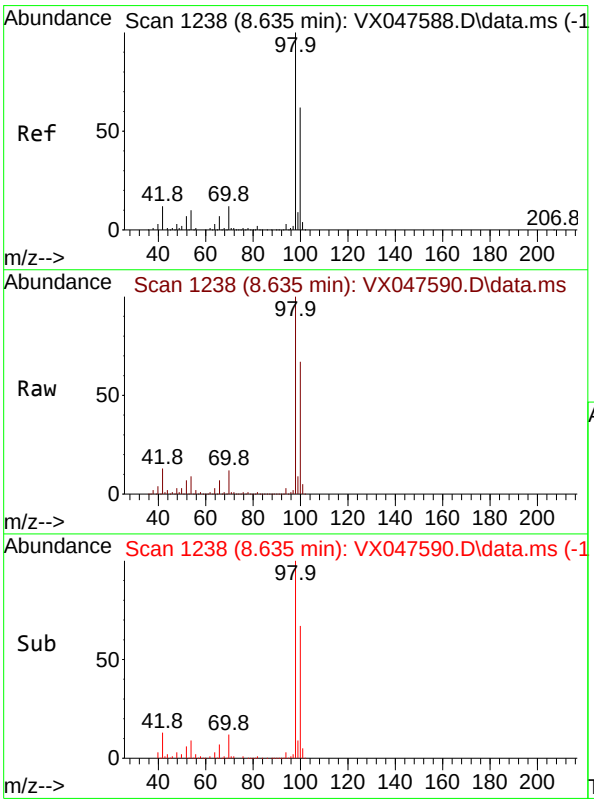
#49
1,4-Dioxane
Concen: 3475.565 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 82739

Ion	Ratio	Lower	Upper
88	100		
43	38.5	30.2	45.2
58	73.0	59.5	89.3

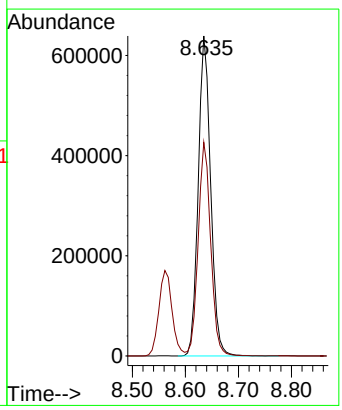


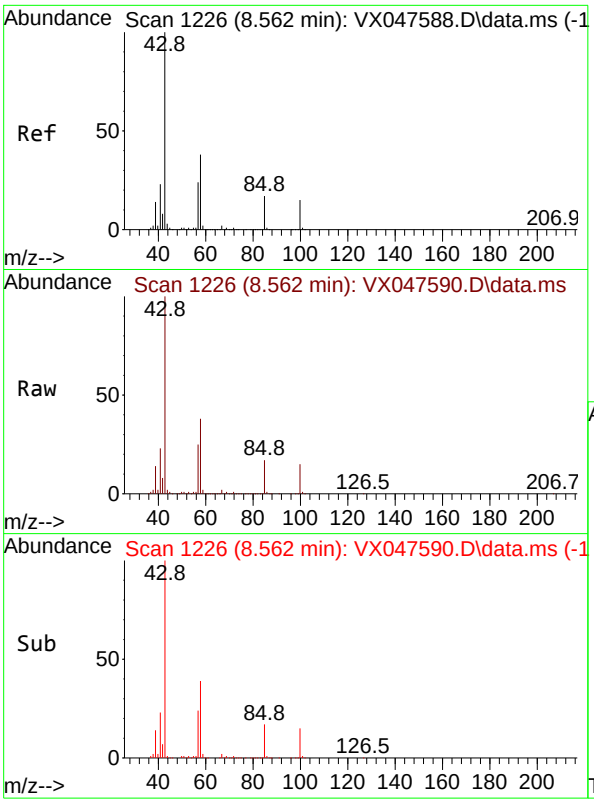


#50
Toluene-d8
Concen: 163.253 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 98 Resp: 1041079

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4



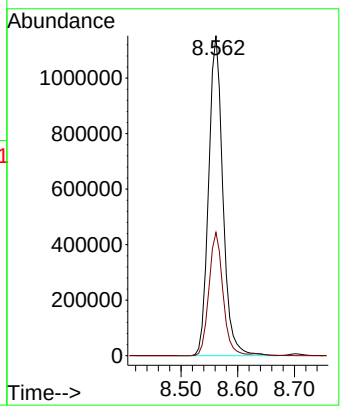


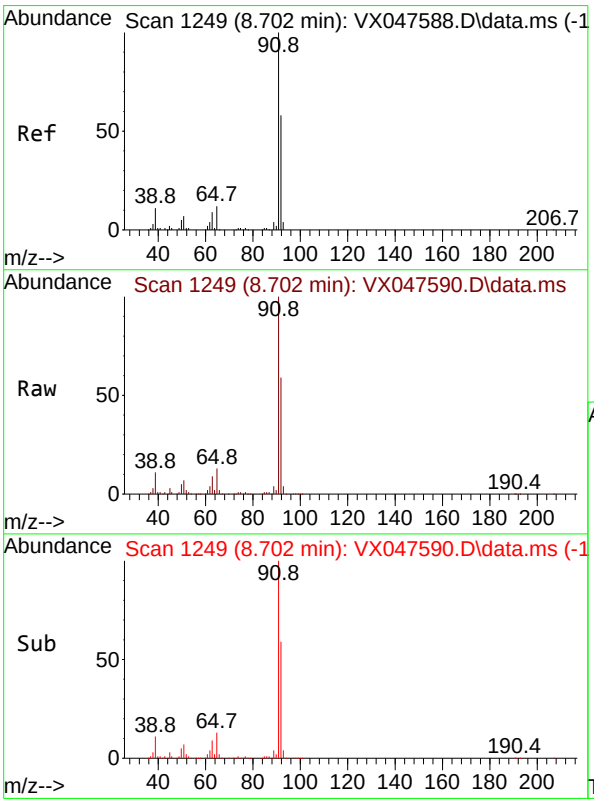
#51
4-Methyl-2-Pentanone
Concen: 765.849 ug/l
RT: 8.562 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2008063

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5

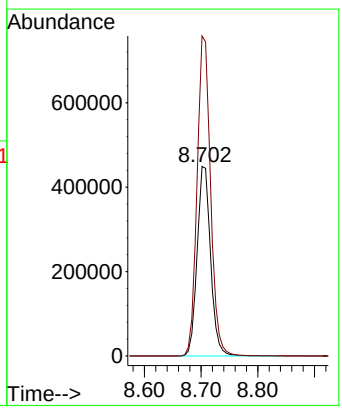


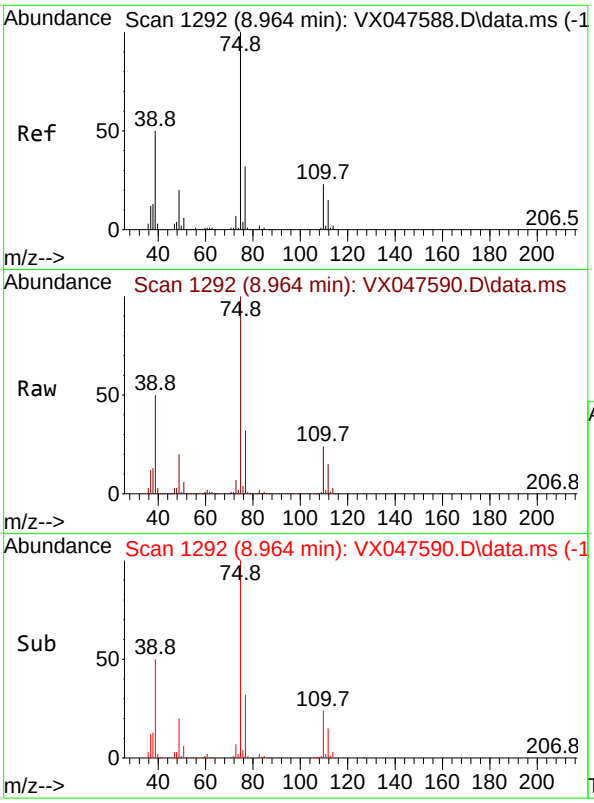


#52
Toluene
Concen: 146.712 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 92 Resp: 739332

Ion	Ratio	Lower	Upper
92	100		
91	169.5	137.1	205.7



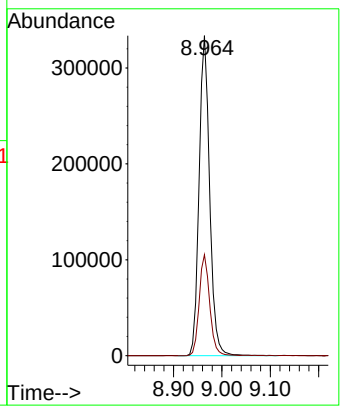


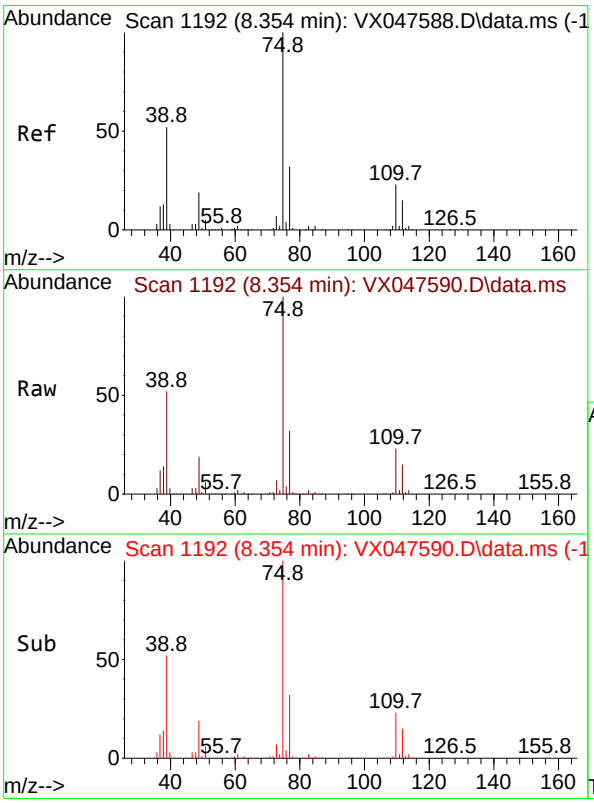
#53
t-1,3-Dichloropropene
Concen: 157.076 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 503912

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

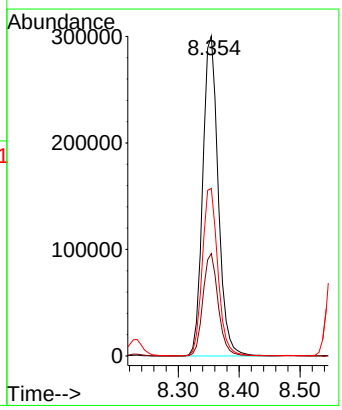


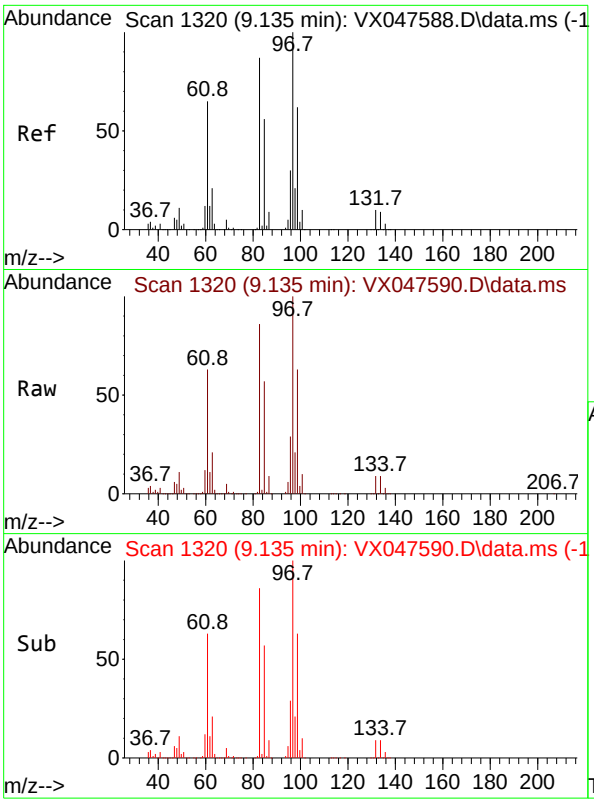


#54
cis-1,3-Dichloropropene
Concen: 154.732 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 530566

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.8	38.6
39	52.3	41.4	62.2



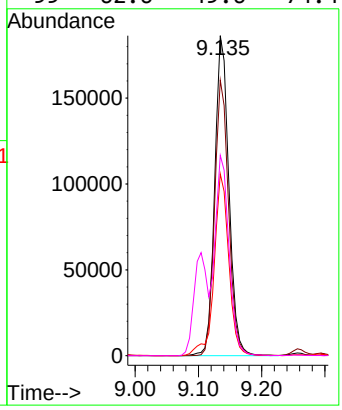


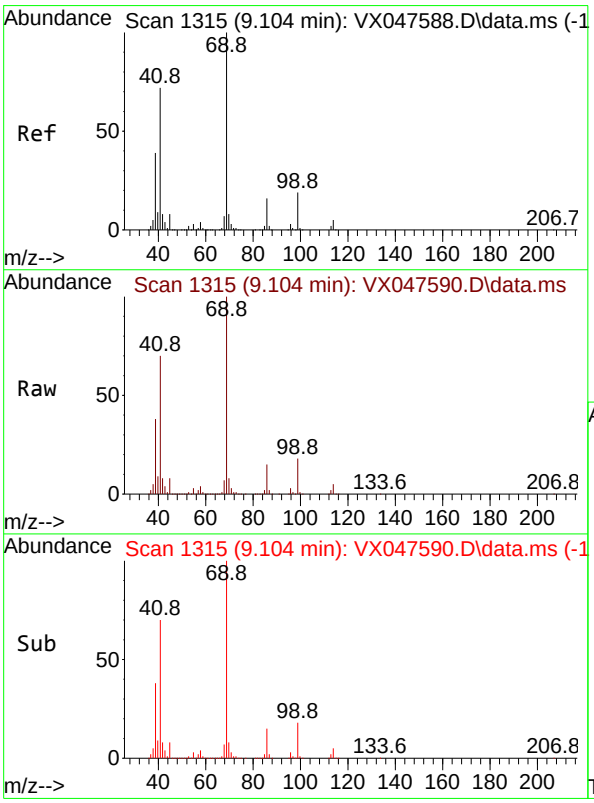
#55
1,1,2-Trichloroethane
Concen: 148.781 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 289103

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	56.8	45.0	67.6
99	62.6	49.6	74.4

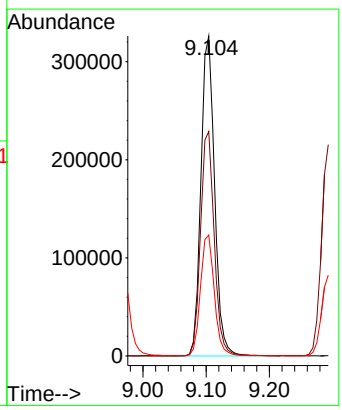


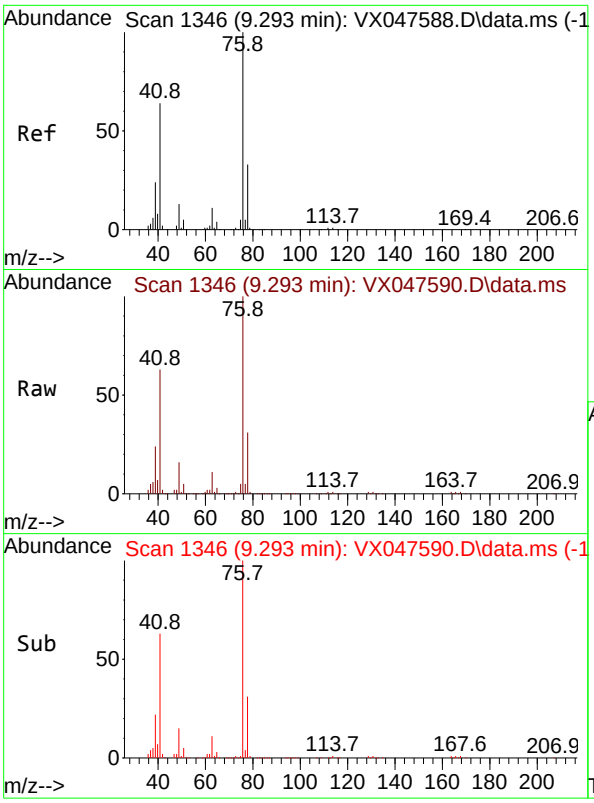


#56
Ethyl methacrylate
Concen: 160.773 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 69 Resp: 490623

Ion	Ratio	Lower	Upper
69	100		
41	70.5	58.6	87.8
39	38.2	31.5	47.3



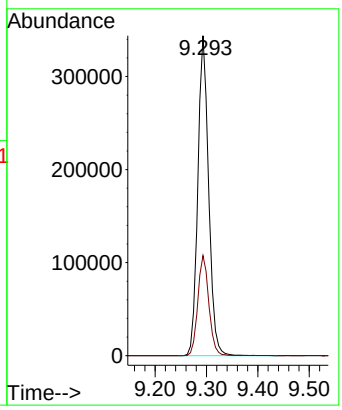


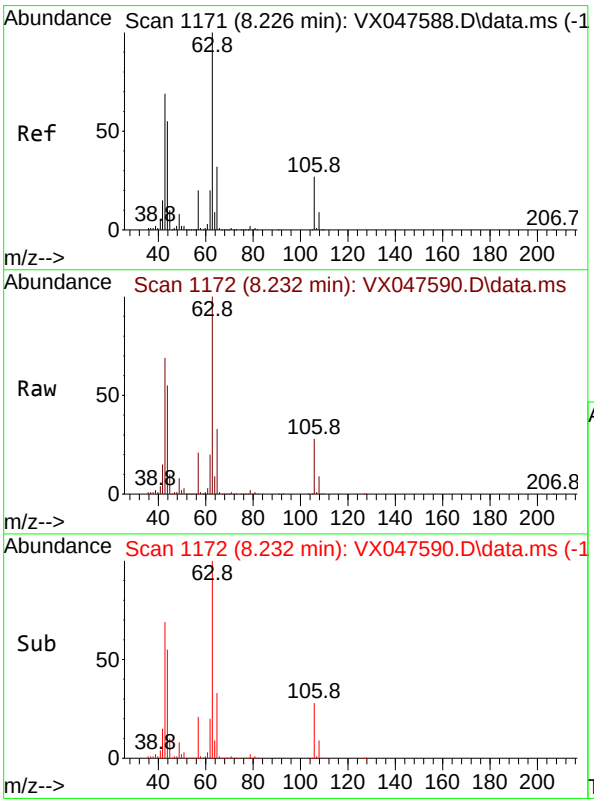
#57
1,3-Dichloropropane
Concen: 150.426 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 502121

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.4

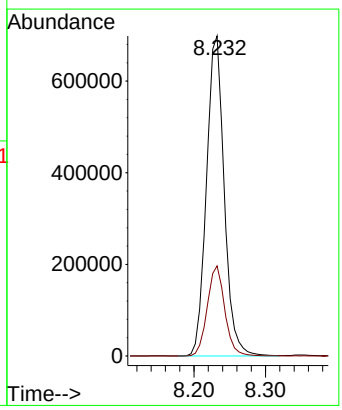


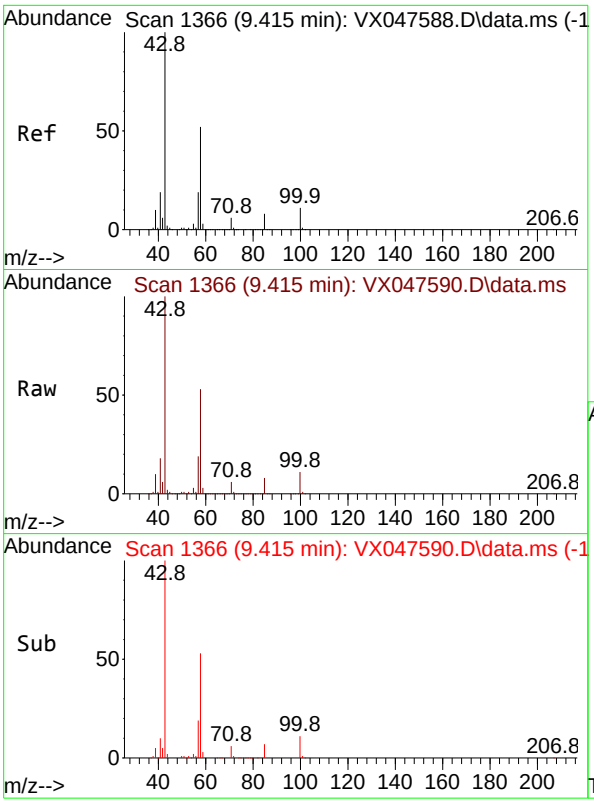


#58
2-Chloroethyl Vinyl ether
Concen: 749.661 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 1202206

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.9	32.9



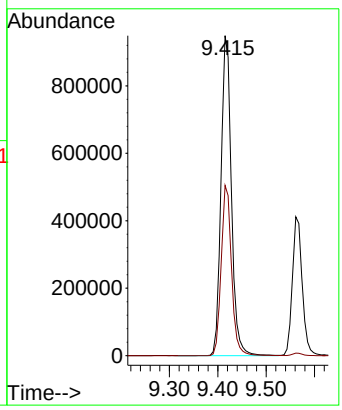


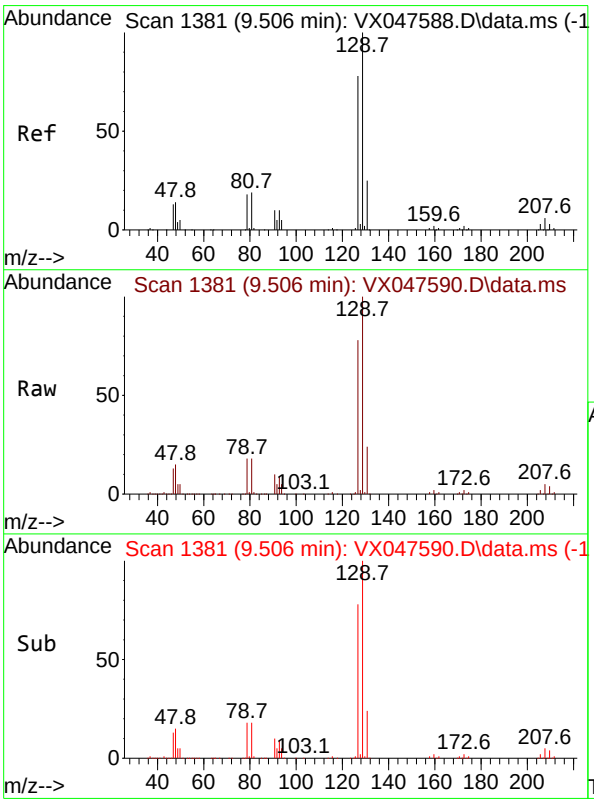
#59
2-Hexanone
Concen: 750.035 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1412417

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2

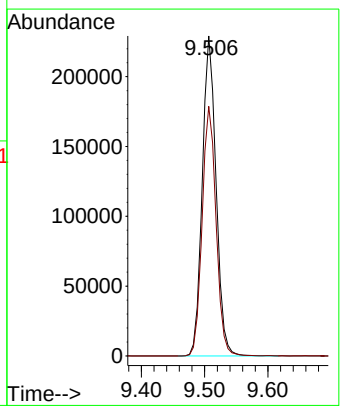


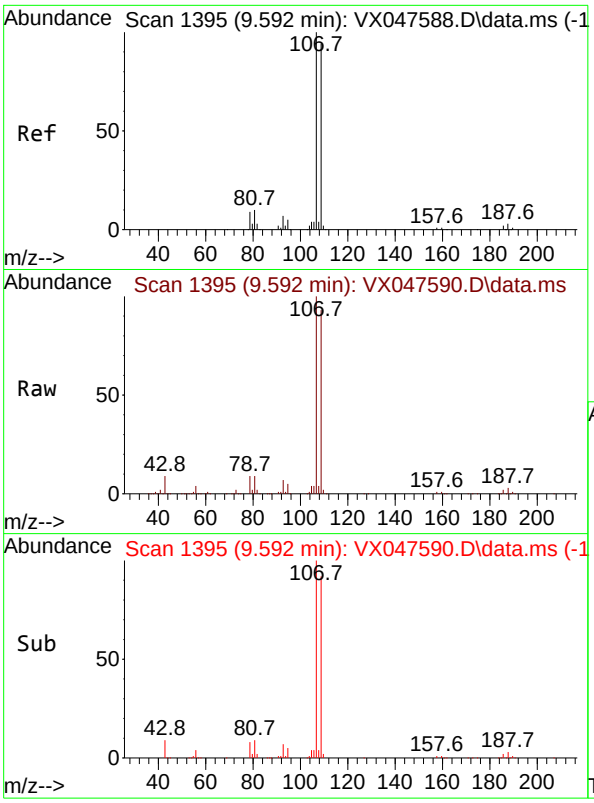


#60
Dibromochloromethane
Concen: 155.318 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:129 Resp: 347748

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.4	115.2



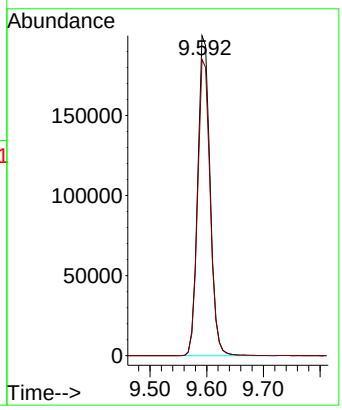


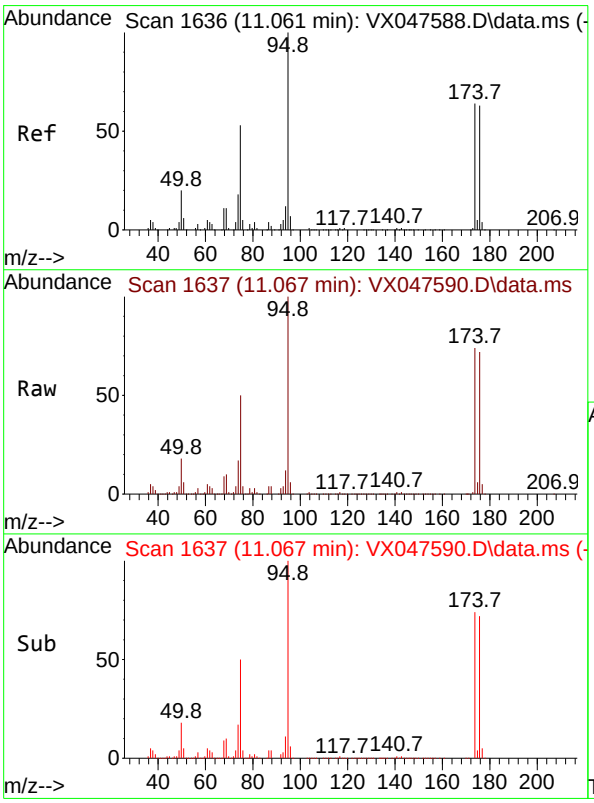
#61
1,2-Dibromoethane
Concen: 152.949 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 302715

Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.3	112.9

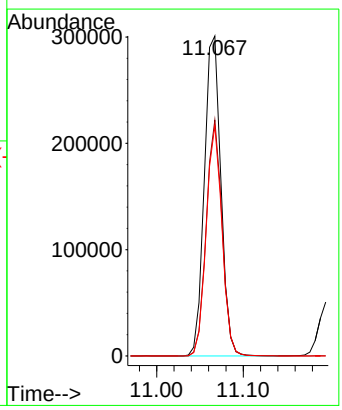


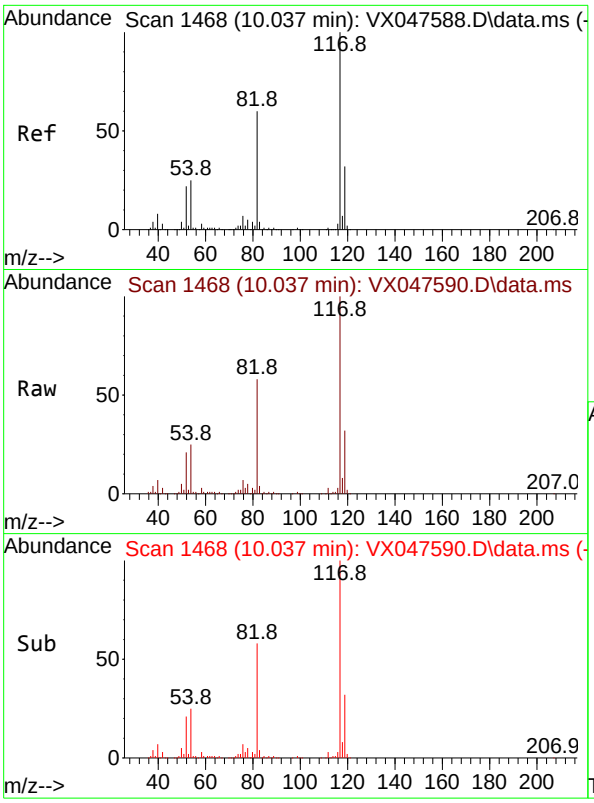


#62
4-Bromofluorobenzene
Concen: 165.020 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 95 Resp: 399386

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.6
176	68.5	0.0	138.4



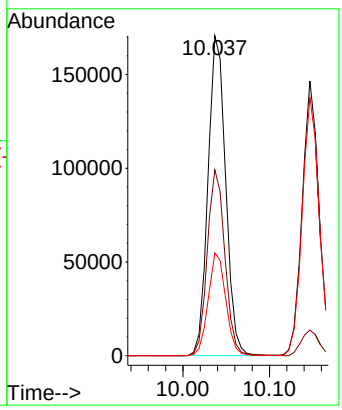


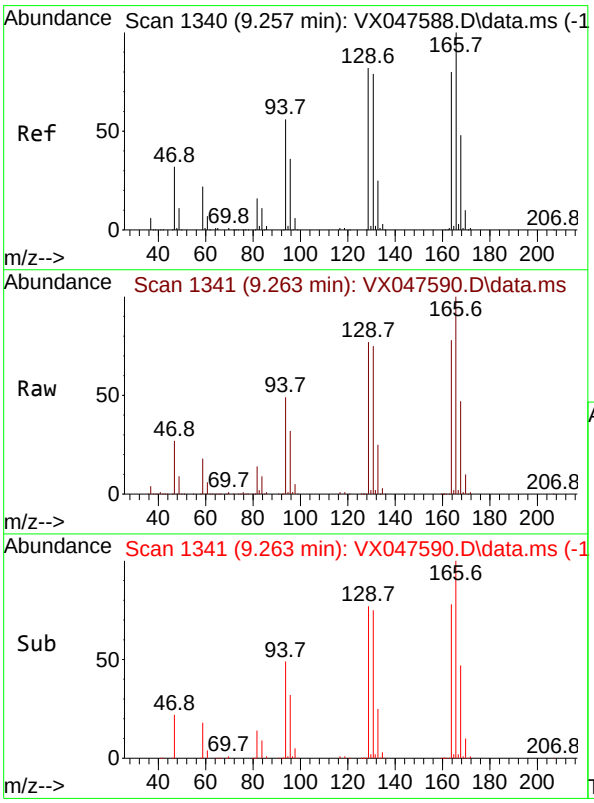
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 241818

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	32.2	25.2	37.8

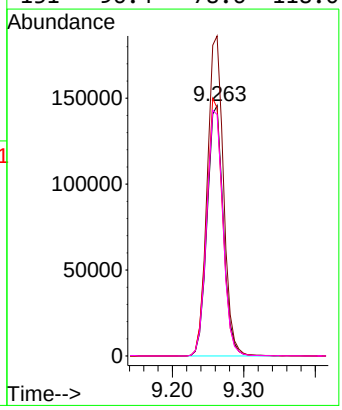


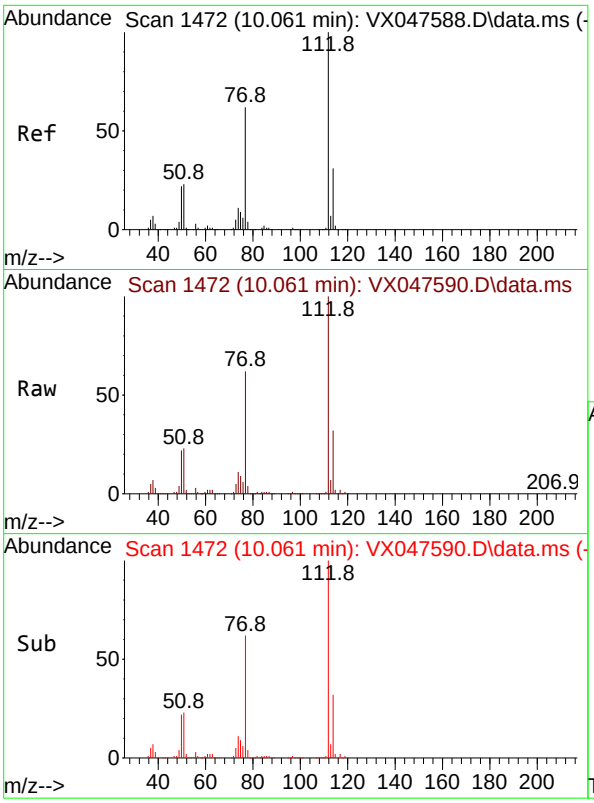


#64
Tetrachloroethene
Concen: 144.590 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:164 Resp: 227931

Ion	Ratio	Lower	Upper
164	100		
166	127.8	100.2	150.2
129	99.0	81.8	122.6
131	96.4	78.6	118.0



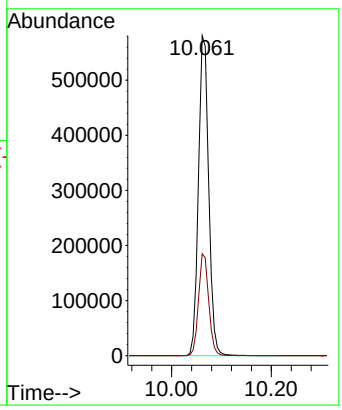


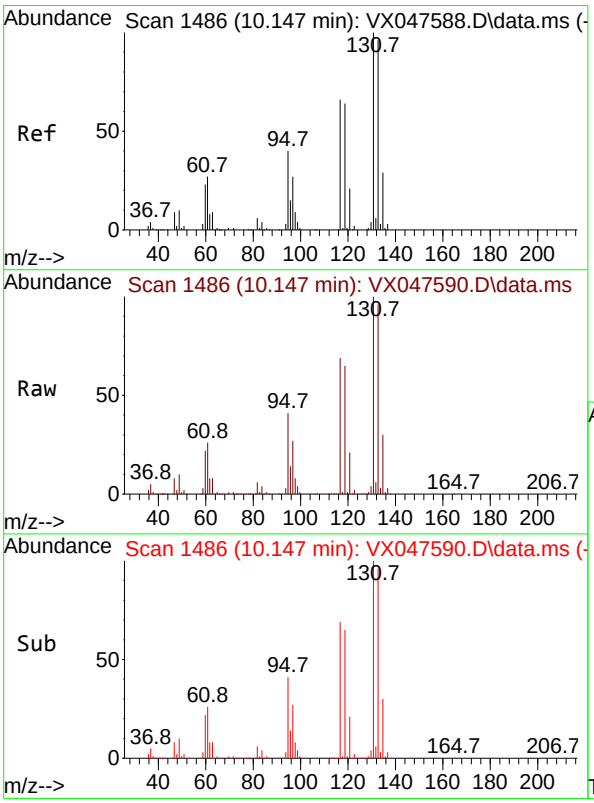
#65
Chlorobenzene
Concen: 150.763 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 828239

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.1	37.7

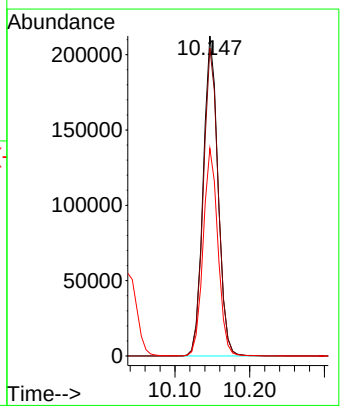


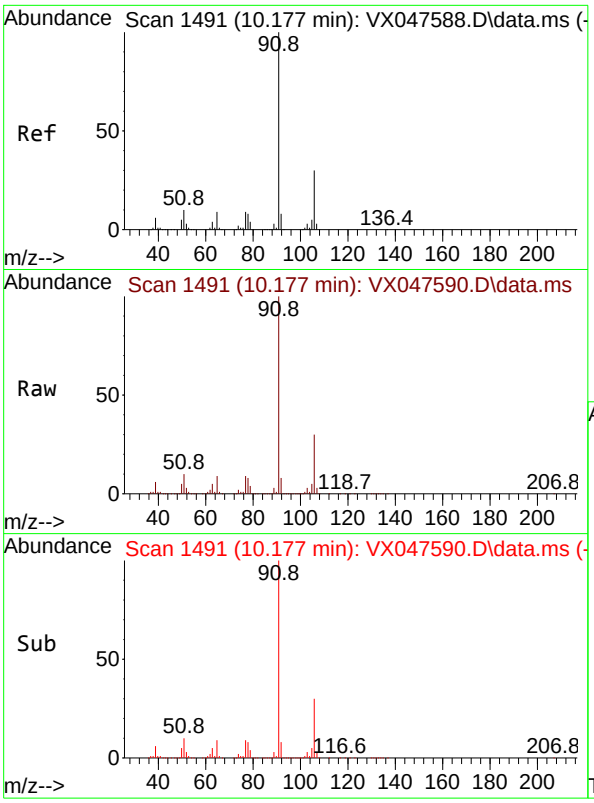


#66
1,1,1,2-Tetrachloroethane
Concen: 153.733 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:131 Resp: 291433

Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.3	142.0
119	64.8	32.0	96.0



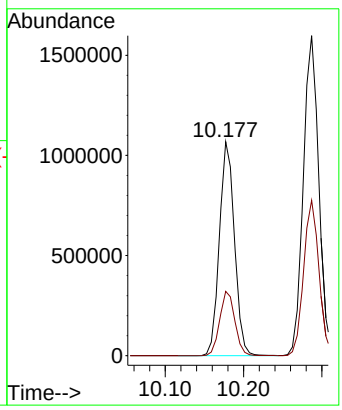


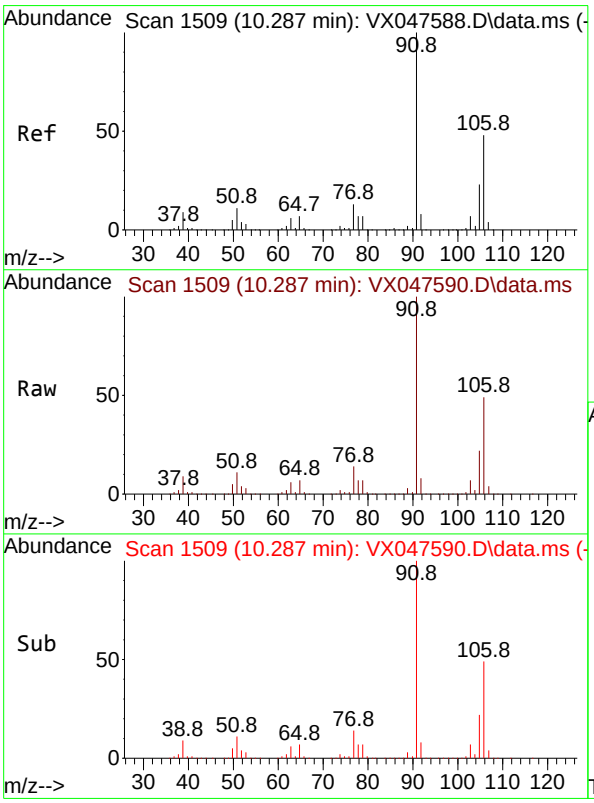
#67
Ethyl Benzene
Concen: 151.026 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1431554

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5

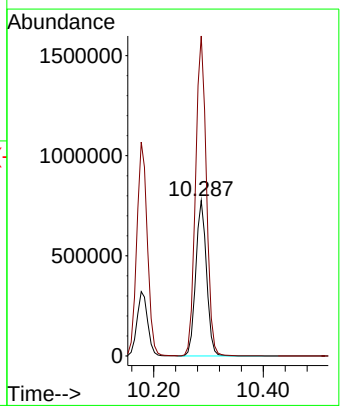


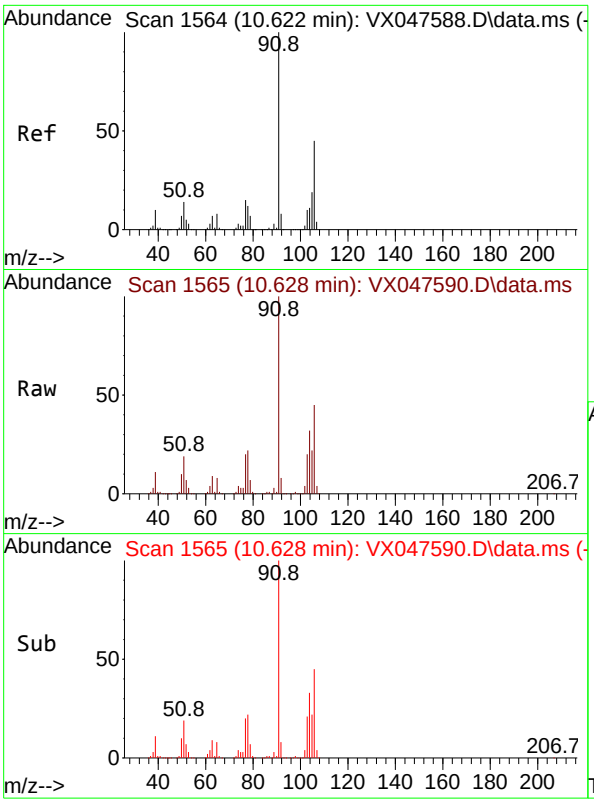


#68
m/p-Xylenes
Concen: 300.381 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:106 Resp: 1059776

Ion	Ratio	Lower	Upper
106	100		
91	208.0	167.8	251.8



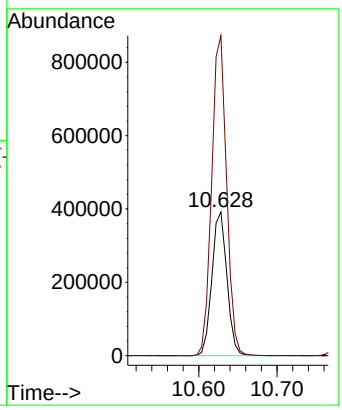


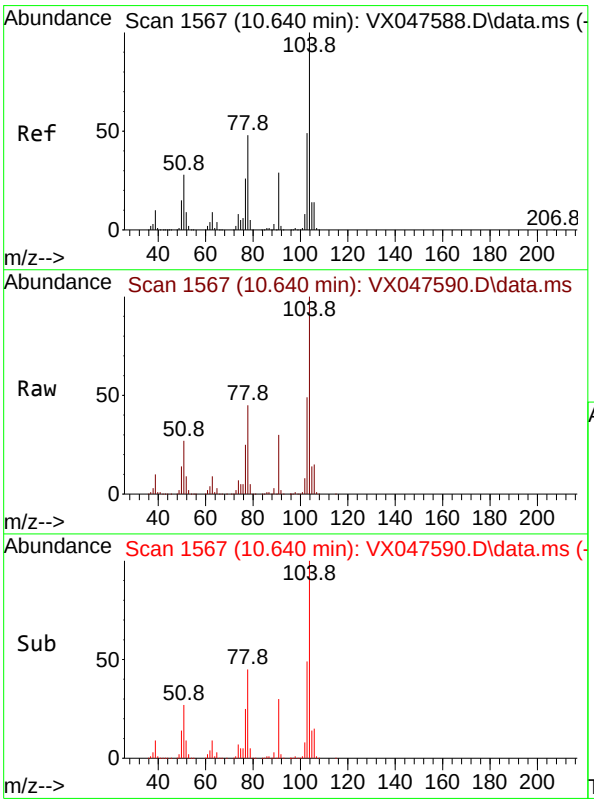
#69
o-Xylene
Concen: 152.920 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 521840

Ion	Ratio	Lower	Upper
106	100		
91	220.7	111.1	333.4

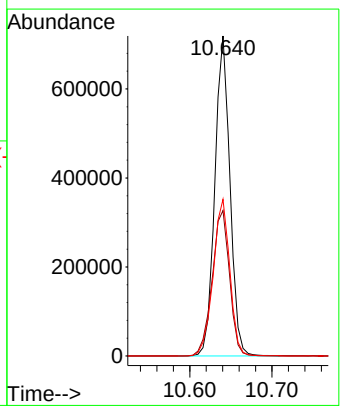


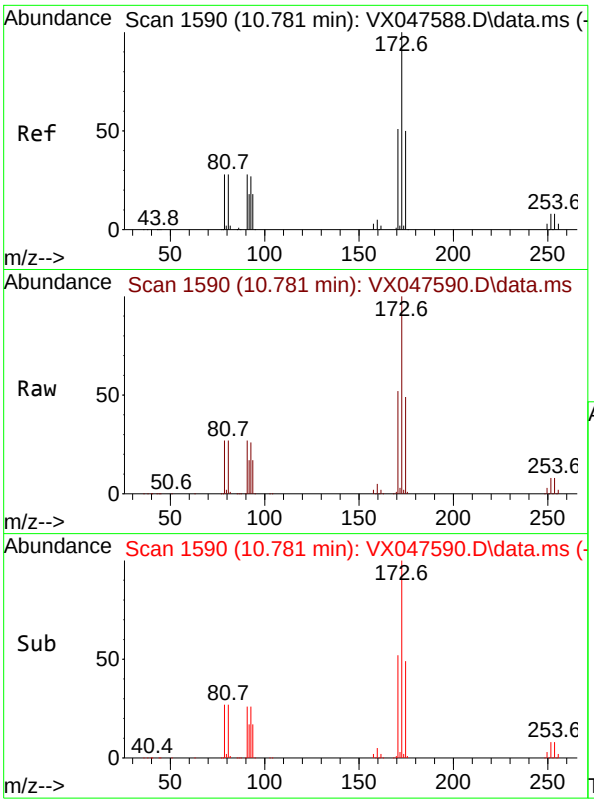


#70
Styrene
Concen: 153.449 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:104 Resp: 917532

Ion	Ratio	Lower	Upper
104	100		
78	52.4	43.1	64.7
103	54.0	43.1	64.7



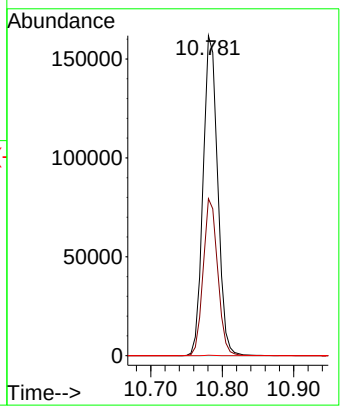


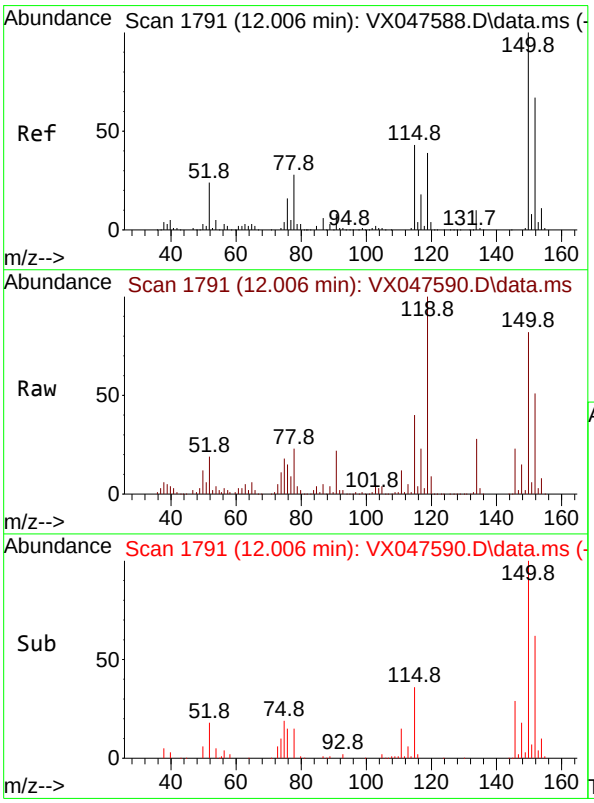
#71
Bromoform
Concen: 162.262 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 229683

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.9	74.6
254	0.1	0.1	0.1

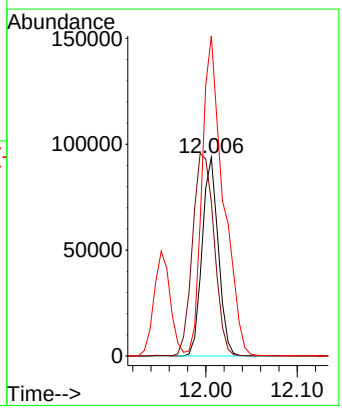


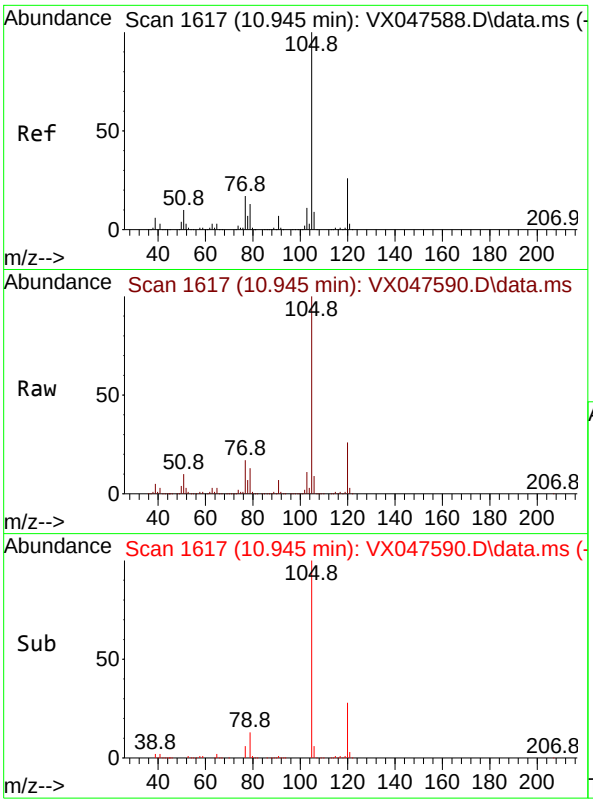


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:152 Resp: 114743

Ion	Ratio	Lower	Upper
152	100		
115	136.9	44.9	134.5#
150	212.9	0.0	352.0



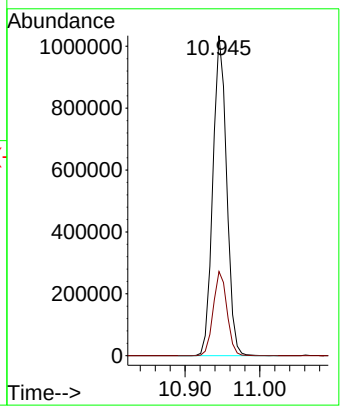


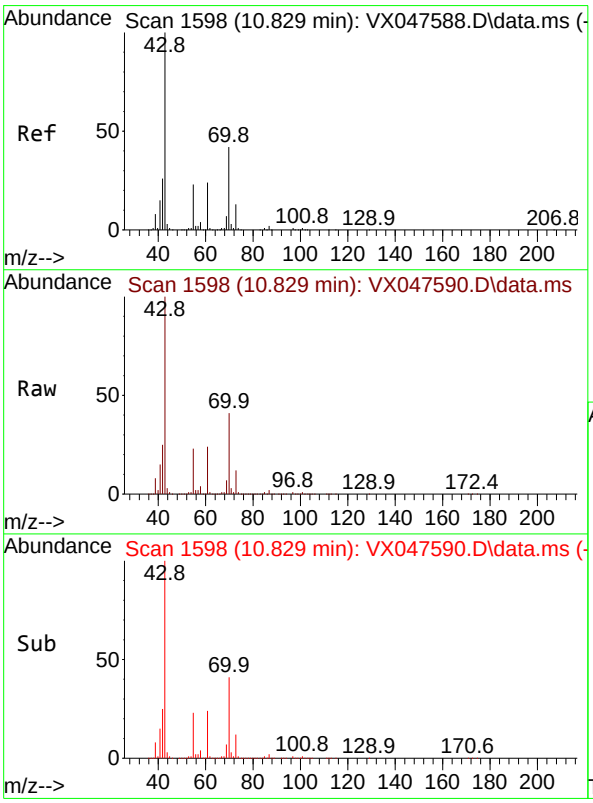
#73
Isopropylbenzene
Concen: 151.477 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1321409

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4

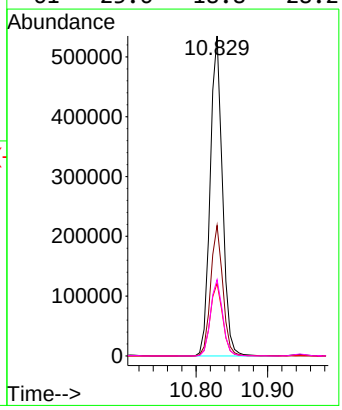


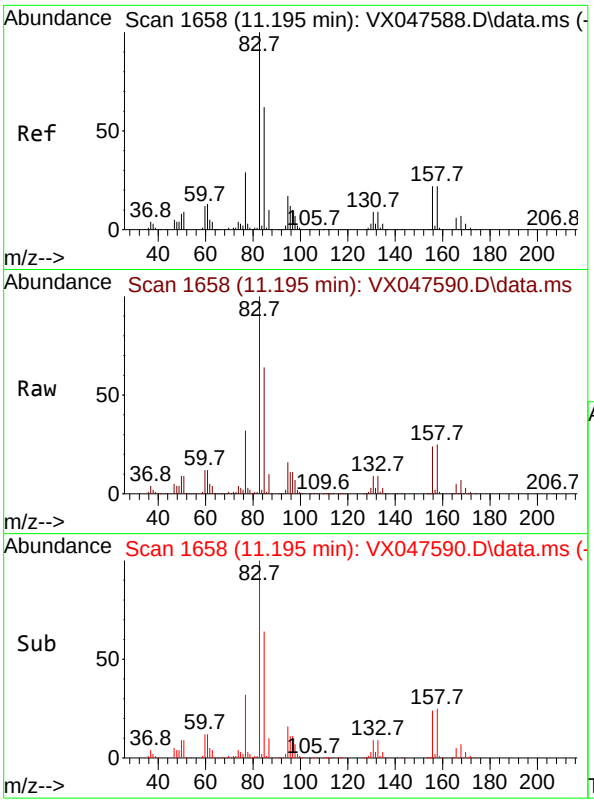


#74
N-amyl acetate
Concen: 160.099 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 636879

Ion	Ratio	Lower	Upper
43	100		
70	40.4	32.0	48.0
55	22.9	18.9	28.3
61	23.6	18.8	28.2



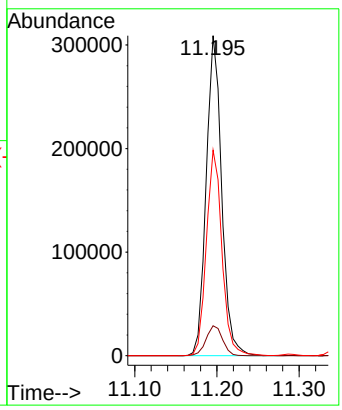


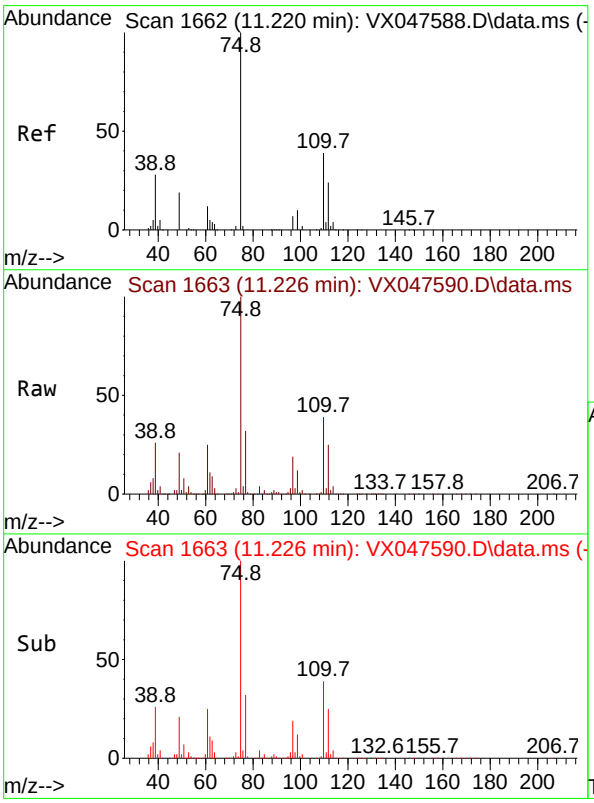
#75
1,1,2,2-Tetrachloroethane
Concen: 153.035 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 403906

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.6	31.6	95.0

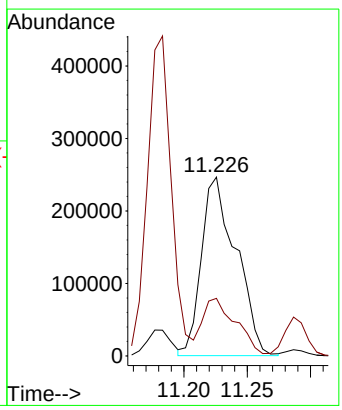


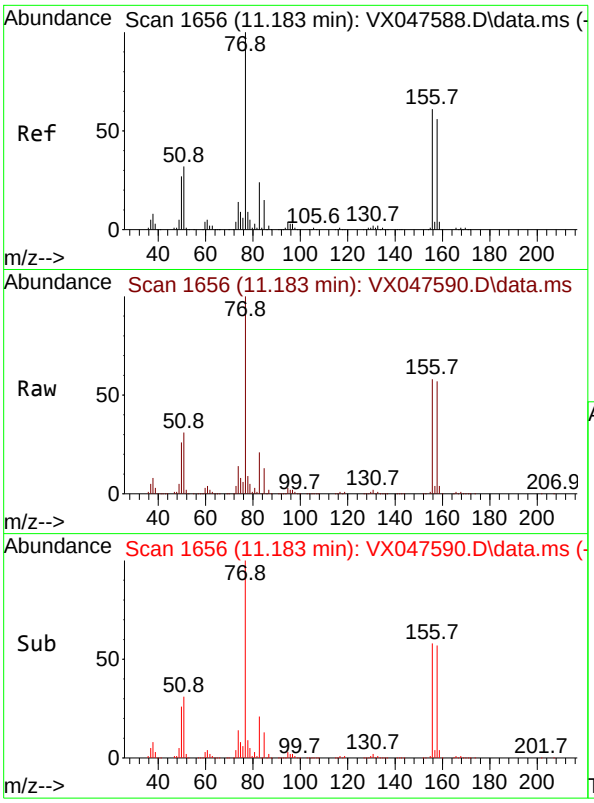


#76
1,2,3-Trichloropropane
Concen: 202.576 ug/l
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 470623

Ion	Ratio	Lower	Upper
75	100		
77	30.8	18.8	56.4



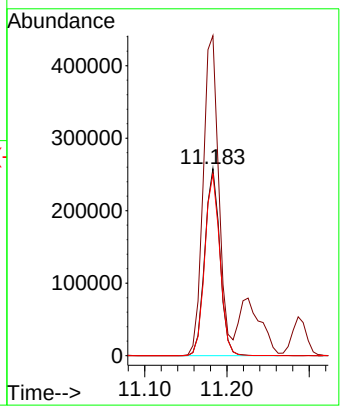


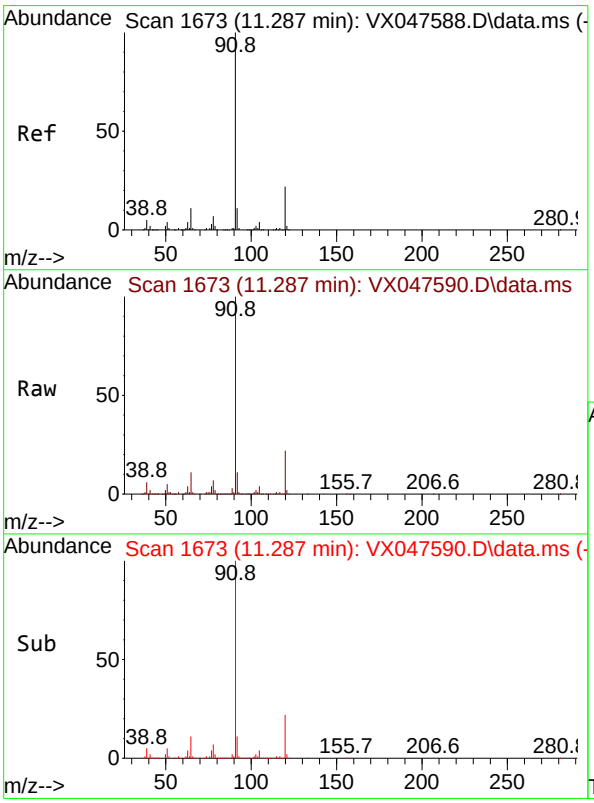
#77
Bromobenzene
Concen: 152.818 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 328336

Ion	Ratio	Lower	Upper
156	100		
77	178.2	89.7	269.1
158	97.5	47.9	143.6

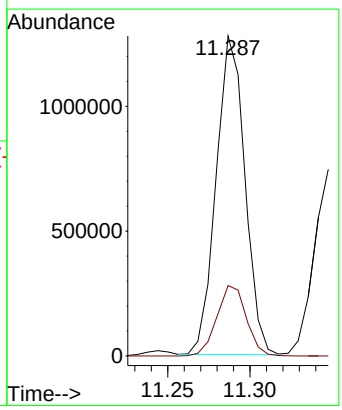


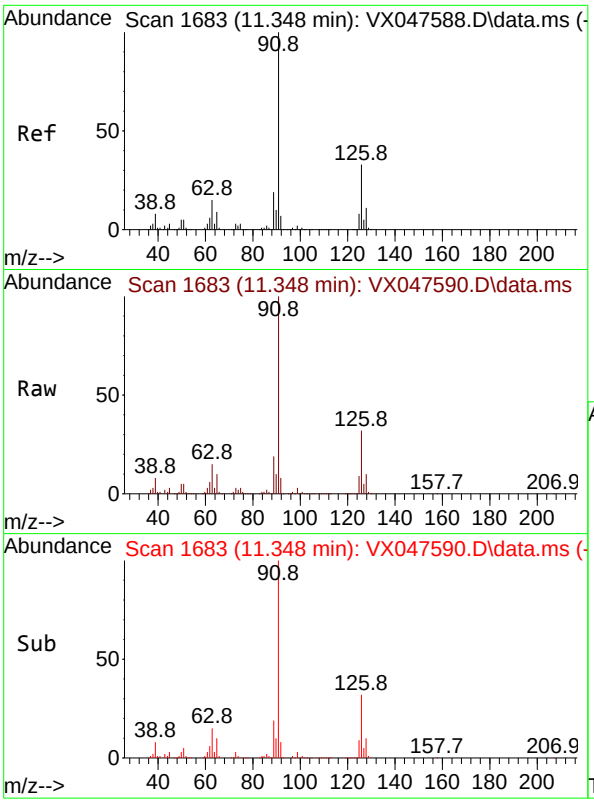


#78
n-propylbenzene
Concen: 150.337 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1550316

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.1



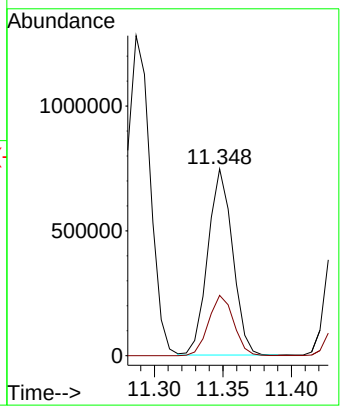


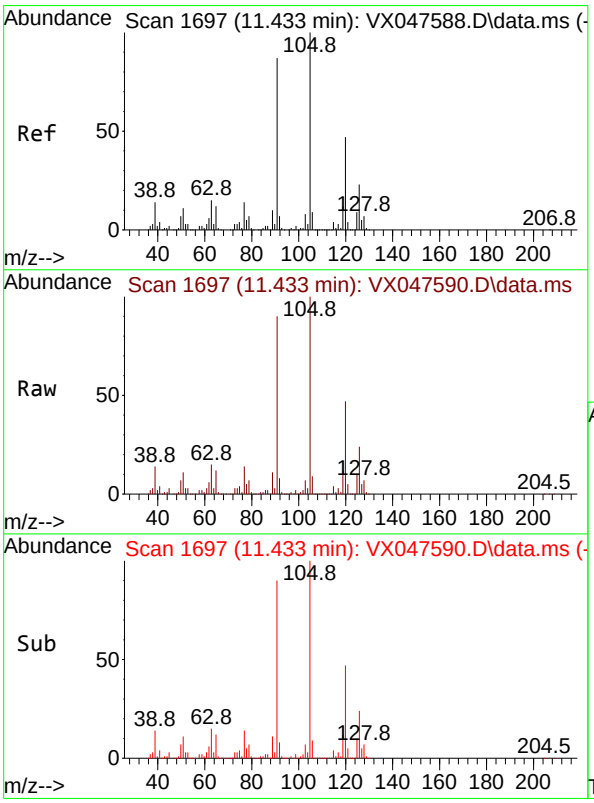
#79
2-Chlorotoluene
Concen: 148.781 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 939707

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

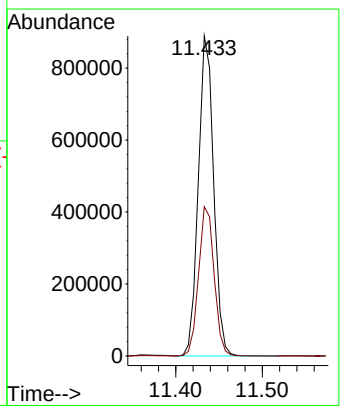


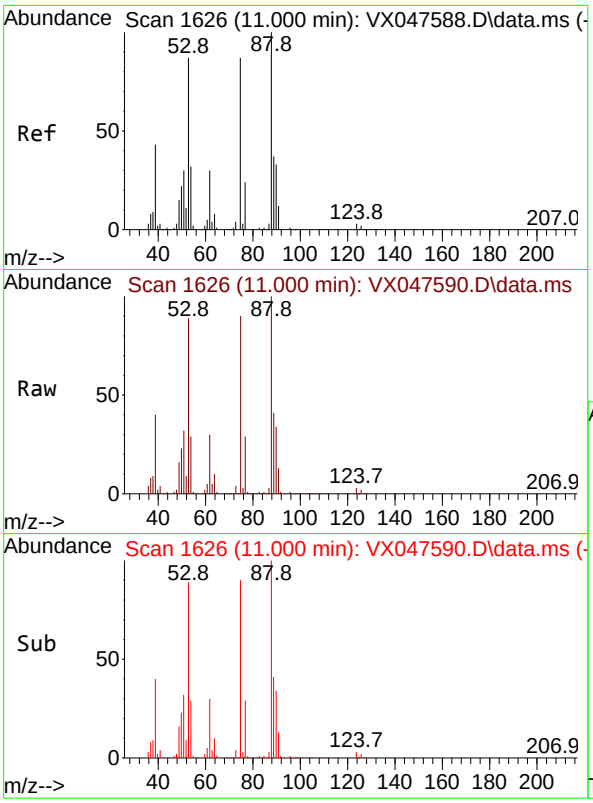


#80
1,3,5-Trimethylbenzene
Concen: 152.306 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1091593

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8



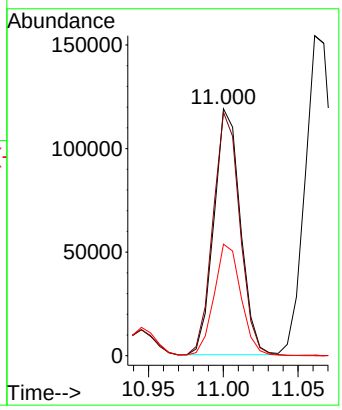


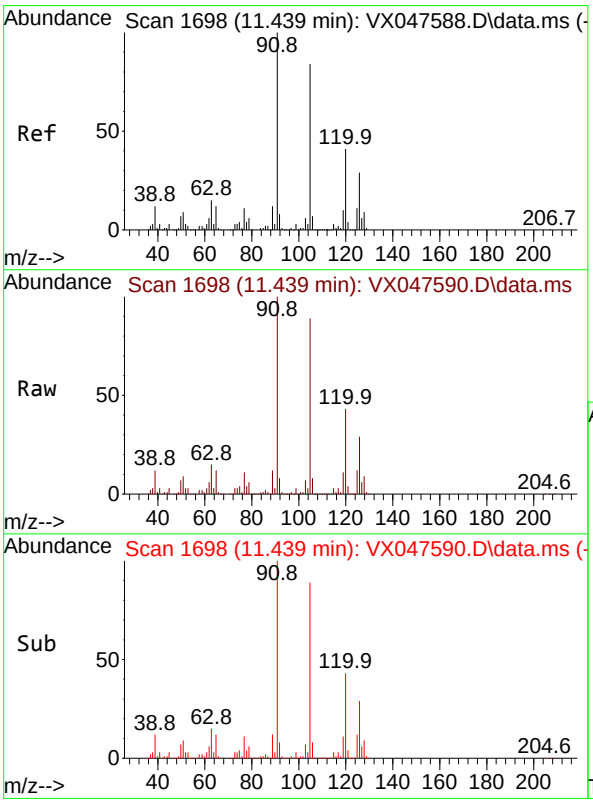
#81
trans-1,4-Dichloro-2-butene
Concen: 160.176 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 145921

Ion	Ratio	Lower	Upper
75	100		
53	100.8	83.4	125.2
89	46.3	36.3	54.5

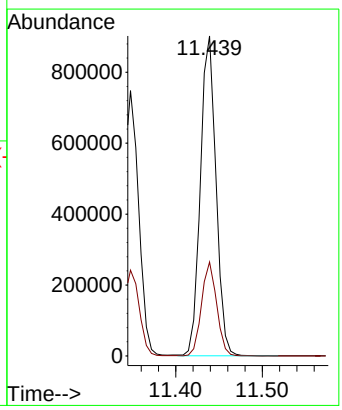


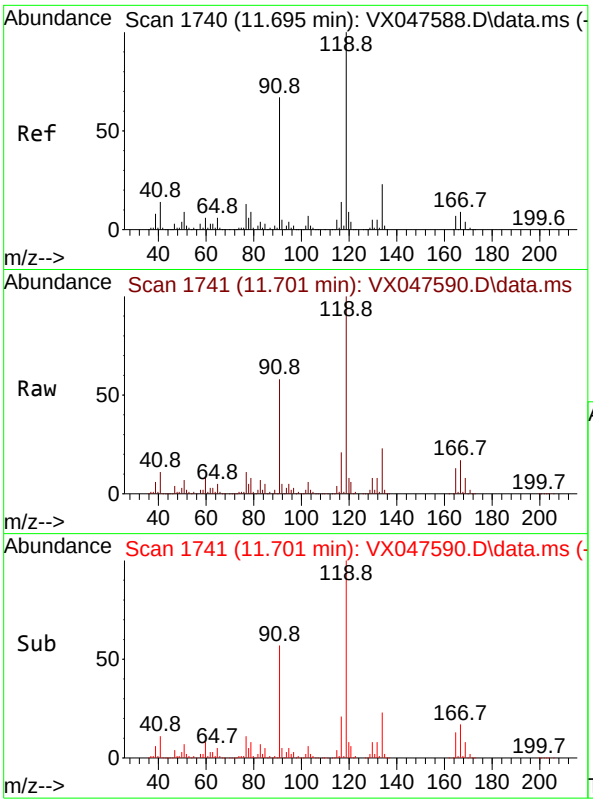


#82
4-Chlorotoluene
Concen: 151.112 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1127233

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6



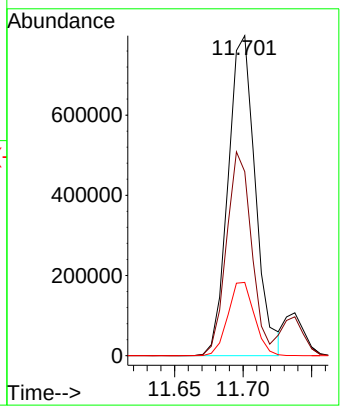


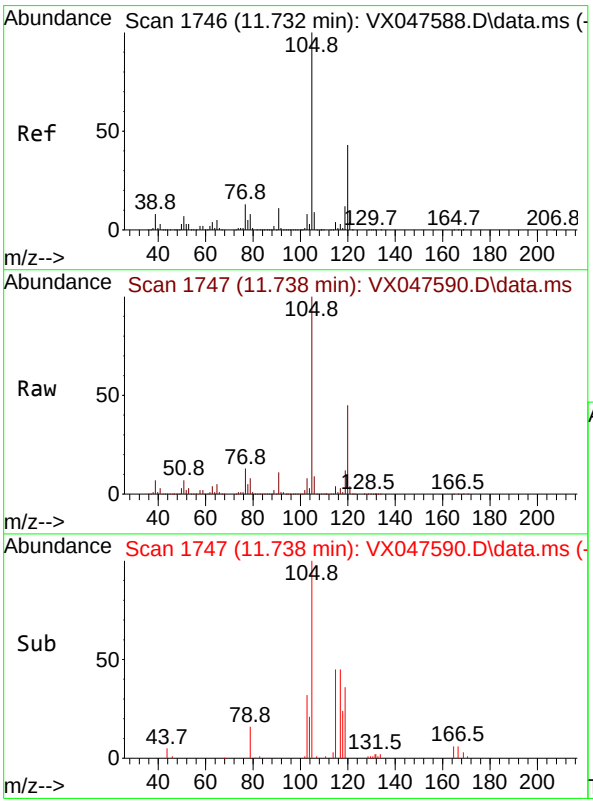
#83
tert-Butylbenzene
Concen: 150.819 ug/l
RT: 11.701 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 1106532

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0

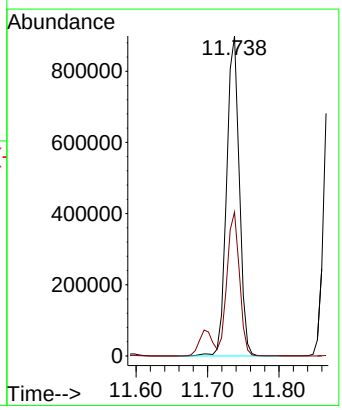


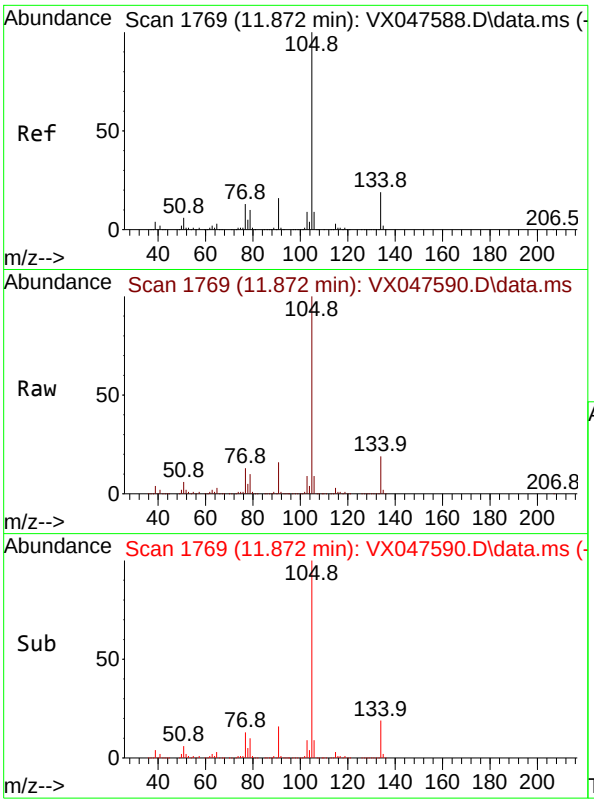


#84
1,2,4-Trimethylbenzene
Concen: 152.336 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1106914

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.1	66.1



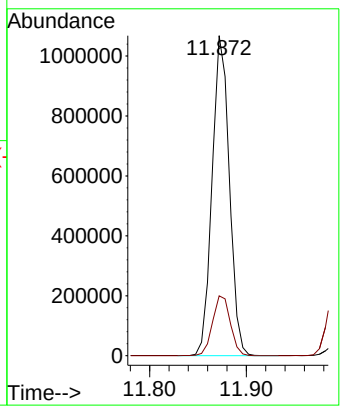


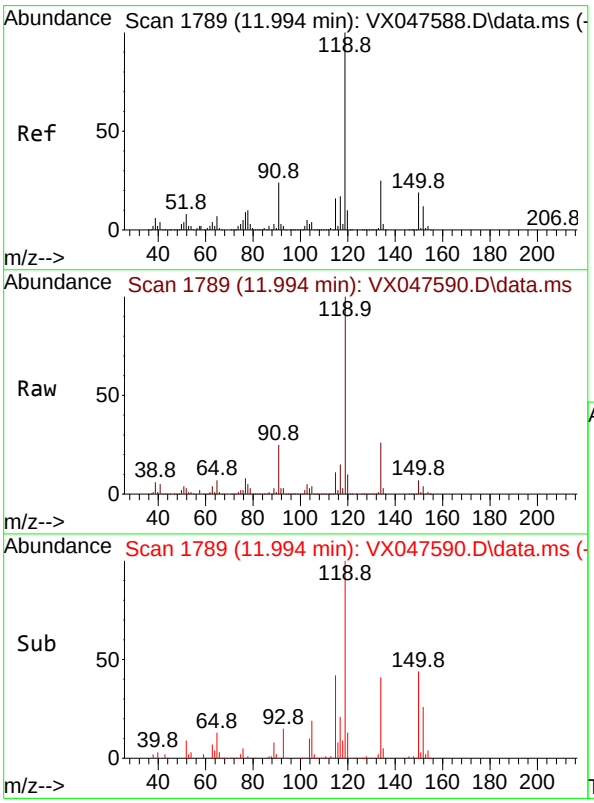
#85
sec-Butylbenzene
Concen: 151.448 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1319819

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

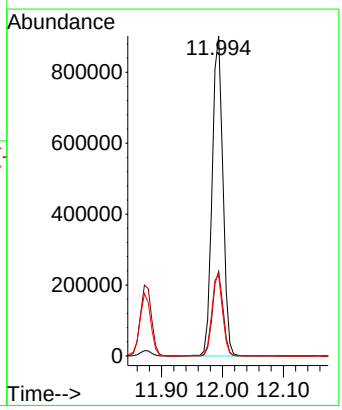


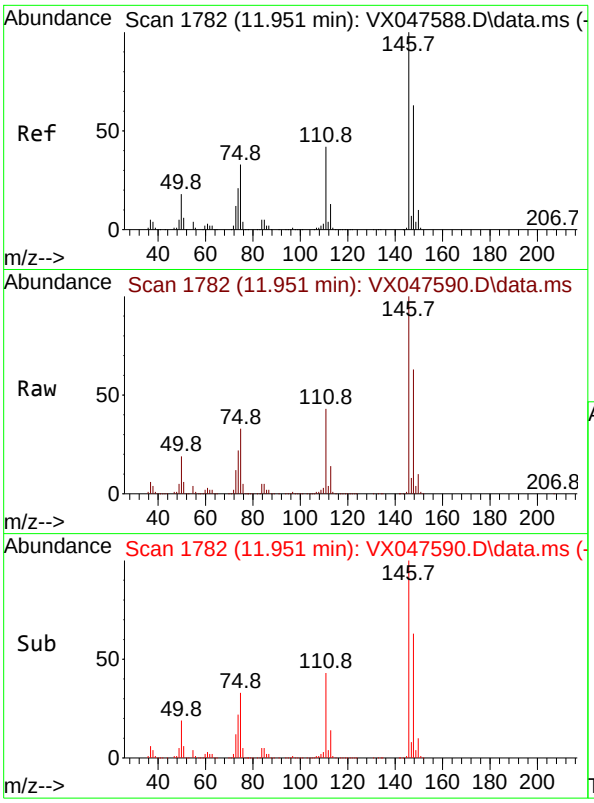


#86
p-Isopropyltoluene
Concen: 149.530 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:119 Resp: 1103210

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.3	12.6	37.6



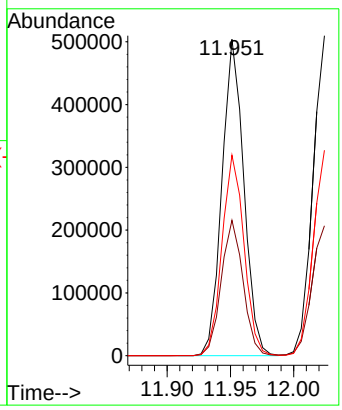


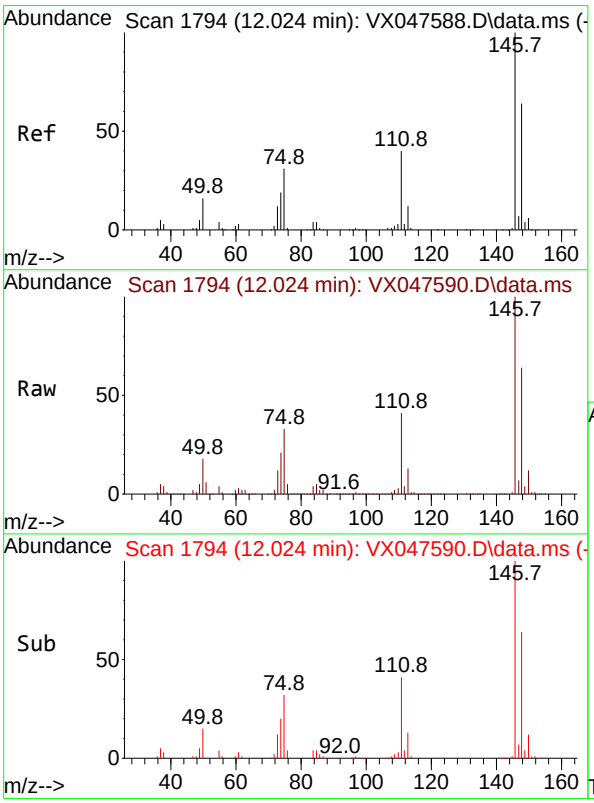
#87
1,3-Dichlorobenzene
Concen: 151.633 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 605123

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.5	64.5
148	63.8	32.0	96.0

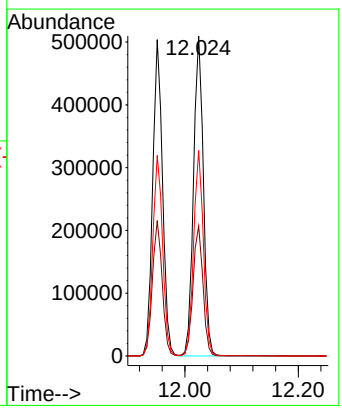


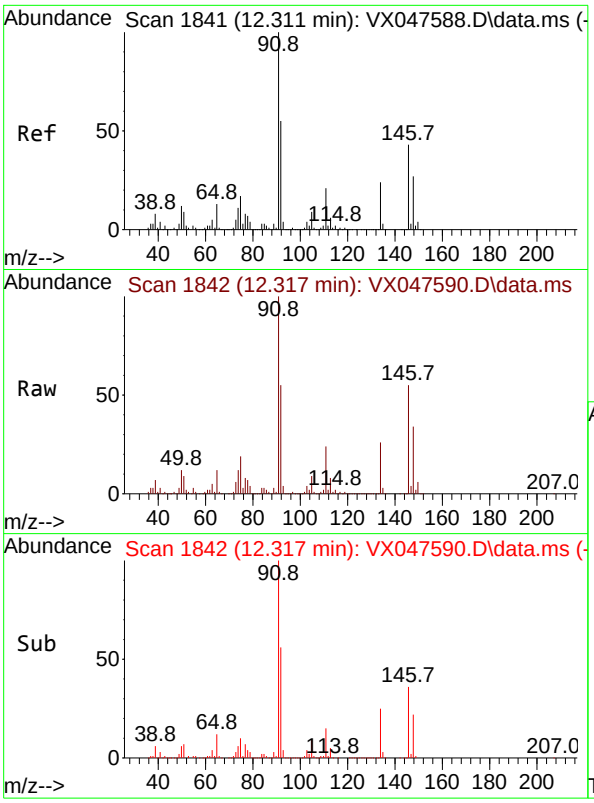


#88
1,4-Dichlorobenzene
Concen: 149.814 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 613617

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	63.2	31.7	95.1



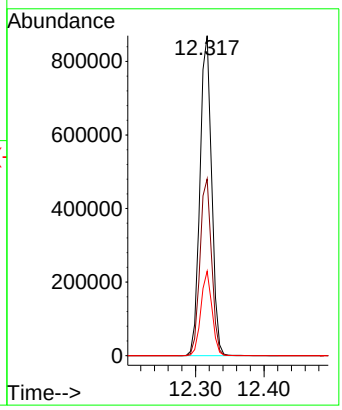


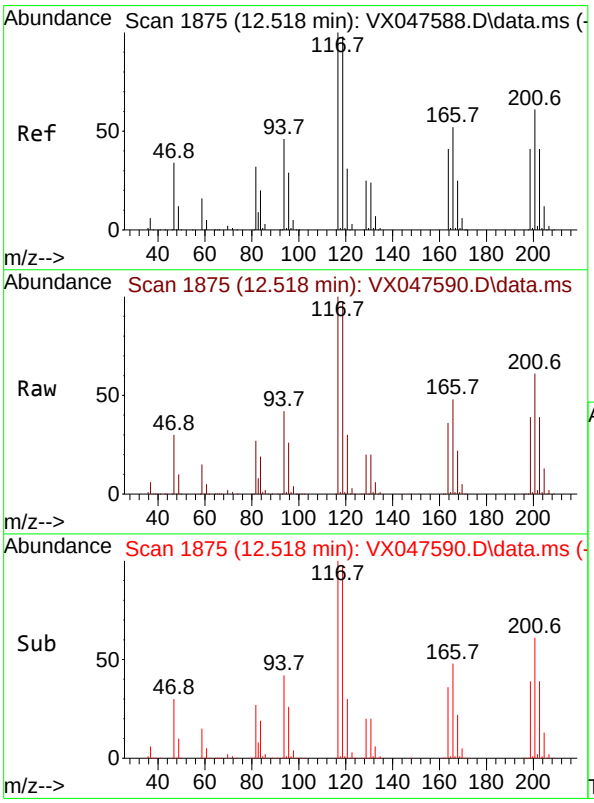
#89
n-Butylbenzene
Concen: 151.222 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1032357

Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.2	12.6	37.8

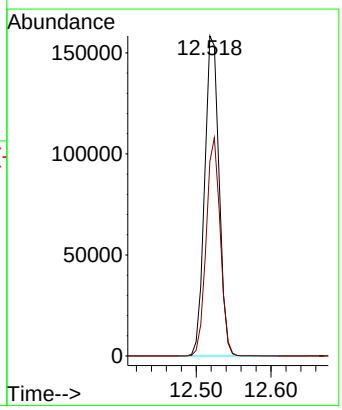


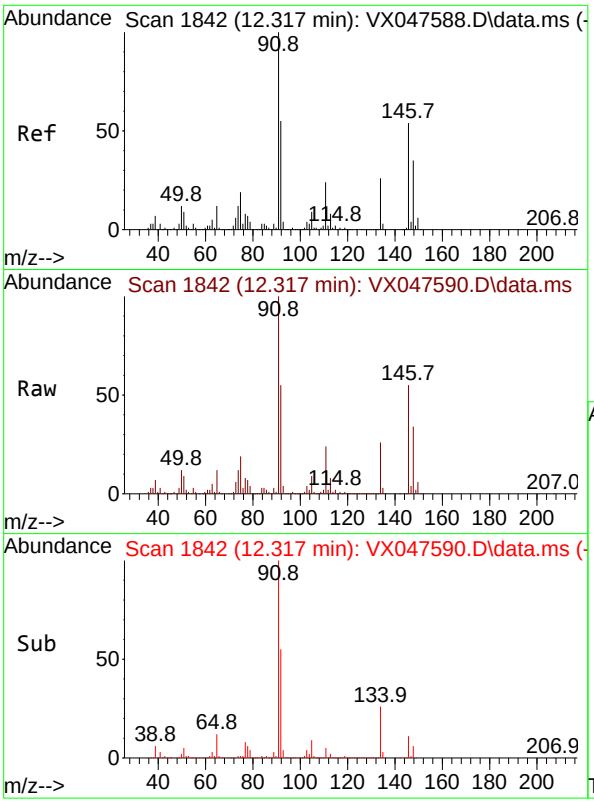


#90
Hexachloroethane
Concen: 163.258 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 211472

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5



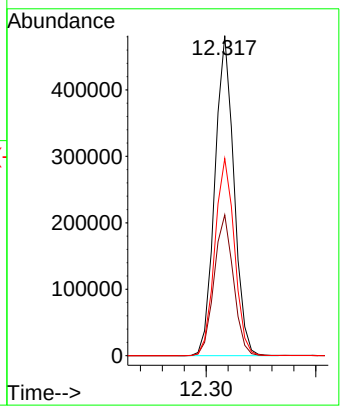


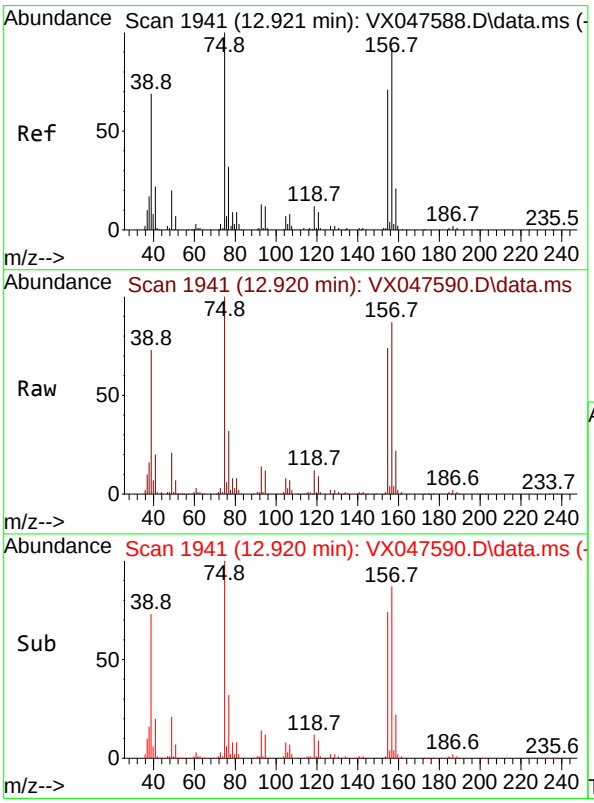
#91
1,2-Dichlorobenzene
Concen: 153.227 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 582565

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.2	66.6
148	63.5	31.8	95.4

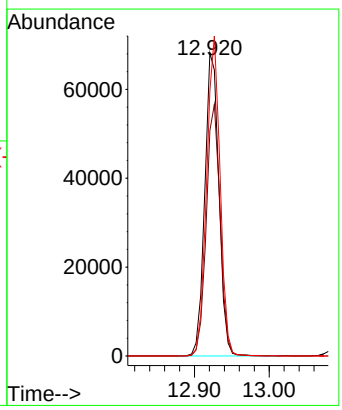


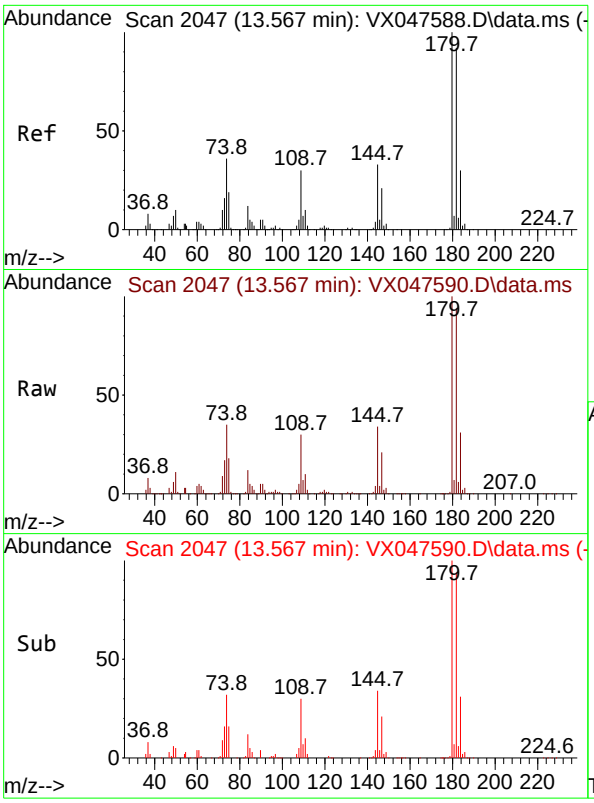


#92
1,2-Dibromo-3-Chloropropane
Concen: 167.332 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 89415

Ion	Ratio	Lower	Upper
75	100		
155	81.3	37.7	113.1
157	100.6	49.8	149.4



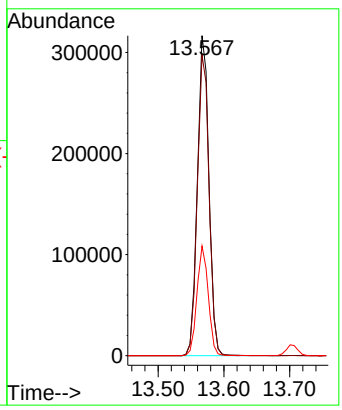


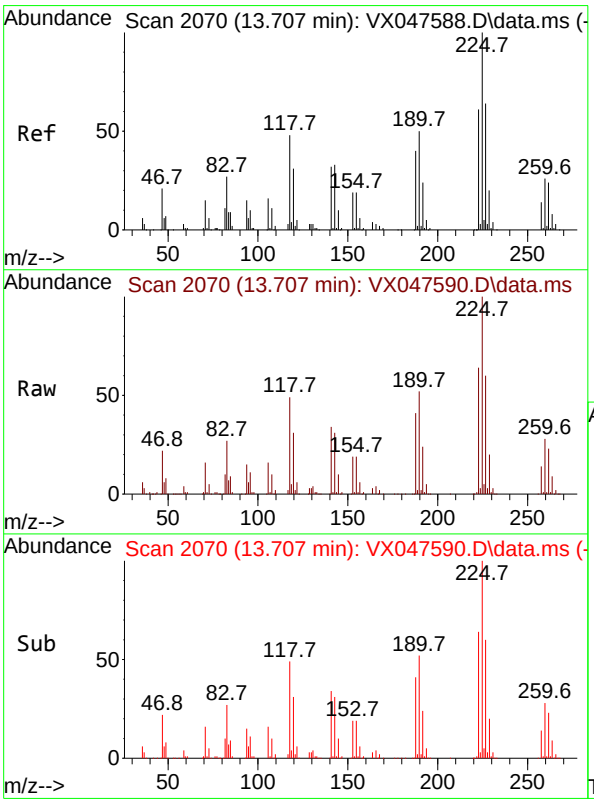
#93
1,2,4-Trichlorobenzene
Concen: 156.884 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 387652

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	33.5	16.4	49.1

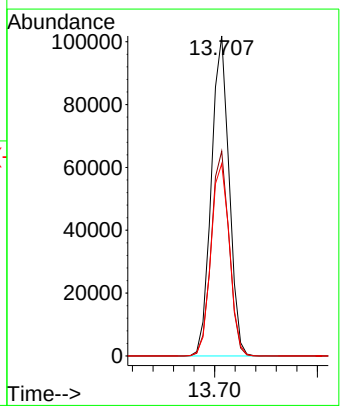


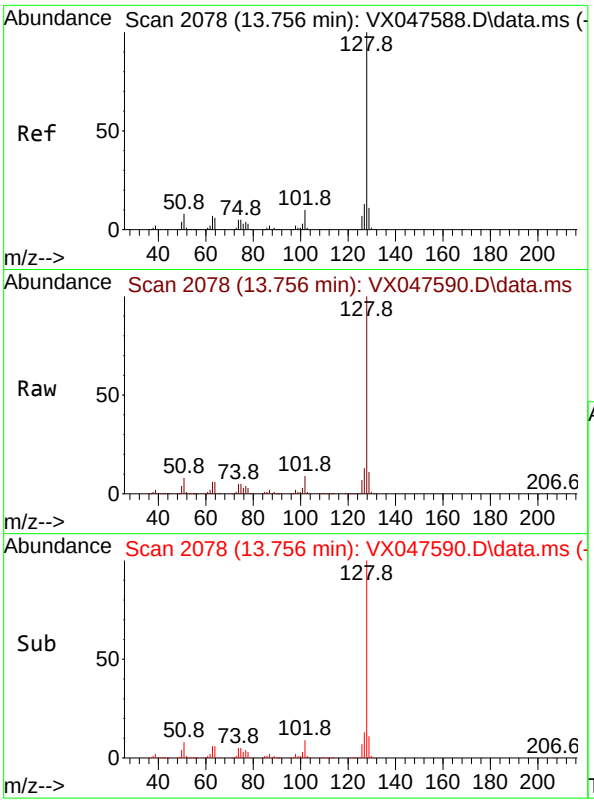


#94
Hexachlorobutadiene
Concen: 145.110 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:225 Resp: 121791

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.7	95.1
227	62.8	32.0	96.0



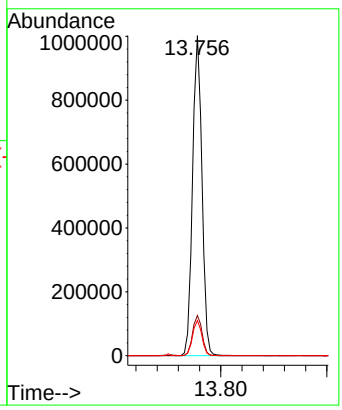


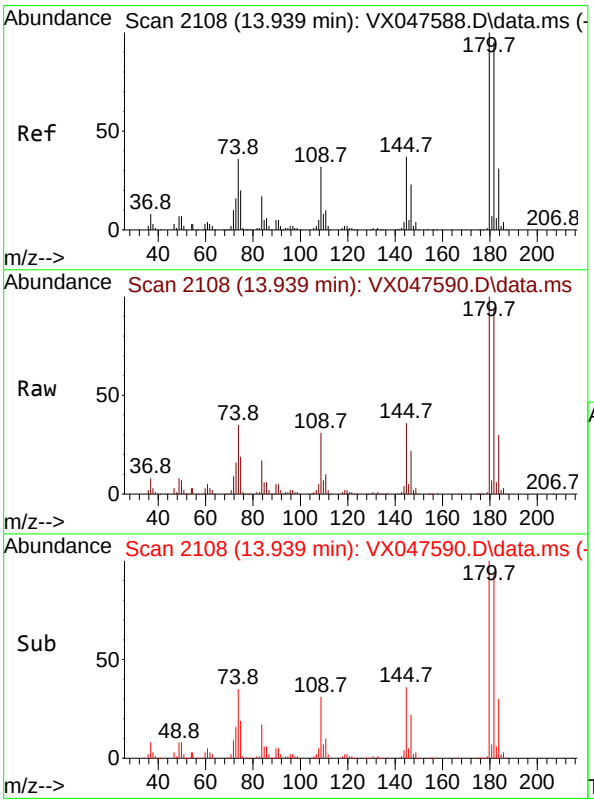
#95
Naphthalene
Concen: 163.388 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1229363

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.9	8.8	13.2

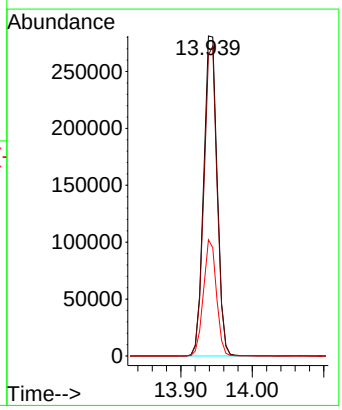




#96
1,2,3-Trichlorobenzene
Concen: 160.704 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:180 Resp: 369382

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.6	142.8
145	34.9	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 22 02:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	186484	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	331837	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288660	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	139252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	135209	45.550	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.100%		
35) Dibromofluoromethane	5.367	113	101390	45.559	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.120%		
50) Toluene-d8	8.634	98	357393	46.411	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.820%		
62) 4-Bromofluorobenzene	11.061	95	135957	46.520	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.040%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	86110	44.592	ug/l	94
3) Chloromethane	1.300	50	110935	43.710	ug/l	99
4) Vinyl Chloride	1.380	62	113742	45.783	ug/l	99
5) Bromomethane	1.617	94	76388	48.489	ug/l	99
6) Chloroethane	1.697	64	77337	46.575	ug/l	99
7) Trichlorofluoromethane	1.892	101	173647	47.074	ug/l	98
8) Diethyl Ether	2.136	74	70459	46.693	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	104663	48.524	ug/l	99
10) Methyl Iodide	2.453	142	155450	46.210	ug/l	99
11) Tert butyl alcohol	2.940	59	84722	256.271	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104302	47.076	ug/l	98
13) Acrolein	2.233	56	77645	254.867	ug/l	99
14) Allyl chloride	2.666	41	213704	46.742	ug/l	99
15) Acrylonitrile	3.056	53	310505	253.567	ug/l	99
16) Acetone	2.373	43	316217	245.006	ug/l	97
17) Carbon Disulfide	2.514	76	272741	44.966	ug/l	97
18) Methyl Acetate	2.697	43	158480	55.175	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	392574	48.538	ug/l	100
20) Methylene Chloride	2.788	84	125669	46.000	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	111418	46.709	ug/l	99
22) Diisopropyl ether	3.745	45	426854	48.174	ug/l #	83
23) Vinyl Acetate	3.709	43	1741267	245.539	ug/l	99
24) 1,1-Dichloroethane	3.599	63	226249	48.041	ug/l	99
25) 2-Butanone	4.532	43	408273	253.598	ug/l	97
26) 2,2-Dichloropropane	4.458	77	193760	49.494	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	142635	48.826	ug/l	99
28) Bromochloromethane	4.879	49	95782	46.586	ug/l	99
29) Tetrahydrofuran	4.983	42	245392	253.375	ug/l	99
30) Chloroform	5.074	83	231954	48.739	ug/l	99
31) Cyclohexane	5.458	56	180430	45.999	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	197711	48.978	ug/l	100
36) 1,1-Dichloropropene	5.678	75	151745	46.663	ug/l	99
37) Ethyl Acetate	4.690	43	171454	49.241	ug/l	98
38) Carbon Tetrachloride	5.659	117	165834	46.935	ug/l	95
39) Methylcyclohexane	7.360	83	179392	48.597	ug/l	98
40) Benzene	6.019	78	467748	47.357	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 22 02:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	90758	50.490	ug/l		98
42) 1,2-Dichloroethane	6.068	62	176131	46.867	ug/l		100
43) Isopropyl Acetate	6.318	43	280595	49.136	ug/l		100
44) Trichloroethene	7.104	130	114708	48.037	ug/l		98
45) 1,2-Dichloropropane	7.409	63	121532	48.053	ug/l		98
46) Dibromomethane	7.562	93	88297	47.976	ug/l		98
47) Bromodichloromethane	7.799	83	185219	48.769	ug/l		96
48) Methyl methacrylate	7.671	41	141532	49.757	ug/l		99
49) 1,4-Dioxane	7.641	88	31320	1089.520	ug/l		98
51) 4-Methyl-2-Pentanone	8.555	43	809759	255.752	ug/l		100
52) Toluene	8.702	92	292879	48.130	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	191863	49.527	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	203954	49.257	ug/l		97
55) 1,1,2-Trichloroethane	9.134	97	112094	47.772	ug/l		98
56) Ethyl methacrylate	9.098	69	189741	51.490	ug/l		99
57) 1,3-Dichloropropane	9.293	76	197079	48.894	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	394205	225.562	ug/l		99
59) 2-Hexanone	9.415	43	575599	253.126	ug/l		99
60) Dibromochloromethane	9.506	129	134704	49.824	ug/l		99
61) 1,2-Dibromoethane	9.592	107	117817	49.297	ug/l		99
64) Tetrachloroethene	9.256	164	90881	48.296	ug/l		98
65) Chlorobenzene	10.061	112	318372	48.549	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	110416	48.794	ug/l		98
67) Ethyl Benzene	10.177	91	563634	49.813	ug/l		99
68) m/p-Xylenes	10.287	106	416757	98.956	ug/l		99
69) o-Xylene	10.622	106	204323	50.159	ug/l		99
70) Styrene	10.640	104	353567	49.536	ug/l		99
71) Bromoform	10.780	173	86524	51.207	ug/l	#	98
73) Isopropylbenzene	10.945	105	523826	49.479	ug/l		100
74) N-amyl acetate	10.823	43	243198	50.375	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	159676	49.851	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	184000	65.262	ug/l		89
77) Bromobenzene	11.183	156	125610	48.173	ug/l		98
78) n-propylbenzene	11.286	91	616928	49.295	ug/l		99
79) 2-Chlorotoluene	11.347	91	376486	49.117	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	435375	50.055	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	55880	50.543	ug/l		99
82) 4-Chlorotoluene	11.433	91	445075	49.164	ug/l		100
83) tert-Butylbenzene	11.695	119	442341	49.679	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	440134	49.911	ug/l		99
85) sec-Butylbenzene	11.872	105	529869	50.100	ug/l		100
86) p-Isopropyltoluene	11.994	119	446441	49.861	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	237383	49.014	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	243618	49.011	ug/l		99
89) n-Butylbenzene	12.317	91	420478	50.752	ug/l		100
90) Hexachloroethane	12.518	117	79751	50.732	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	227493	49.304	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	33020	50.918	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	153333	51.133	ug/l		100
94) Hexachlorobutadiene	13.707	225	53099	52.131	ug/l		99
95) Naphthalene	13.756	128	464206	50.836	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	142413	51.054	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 22 02:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

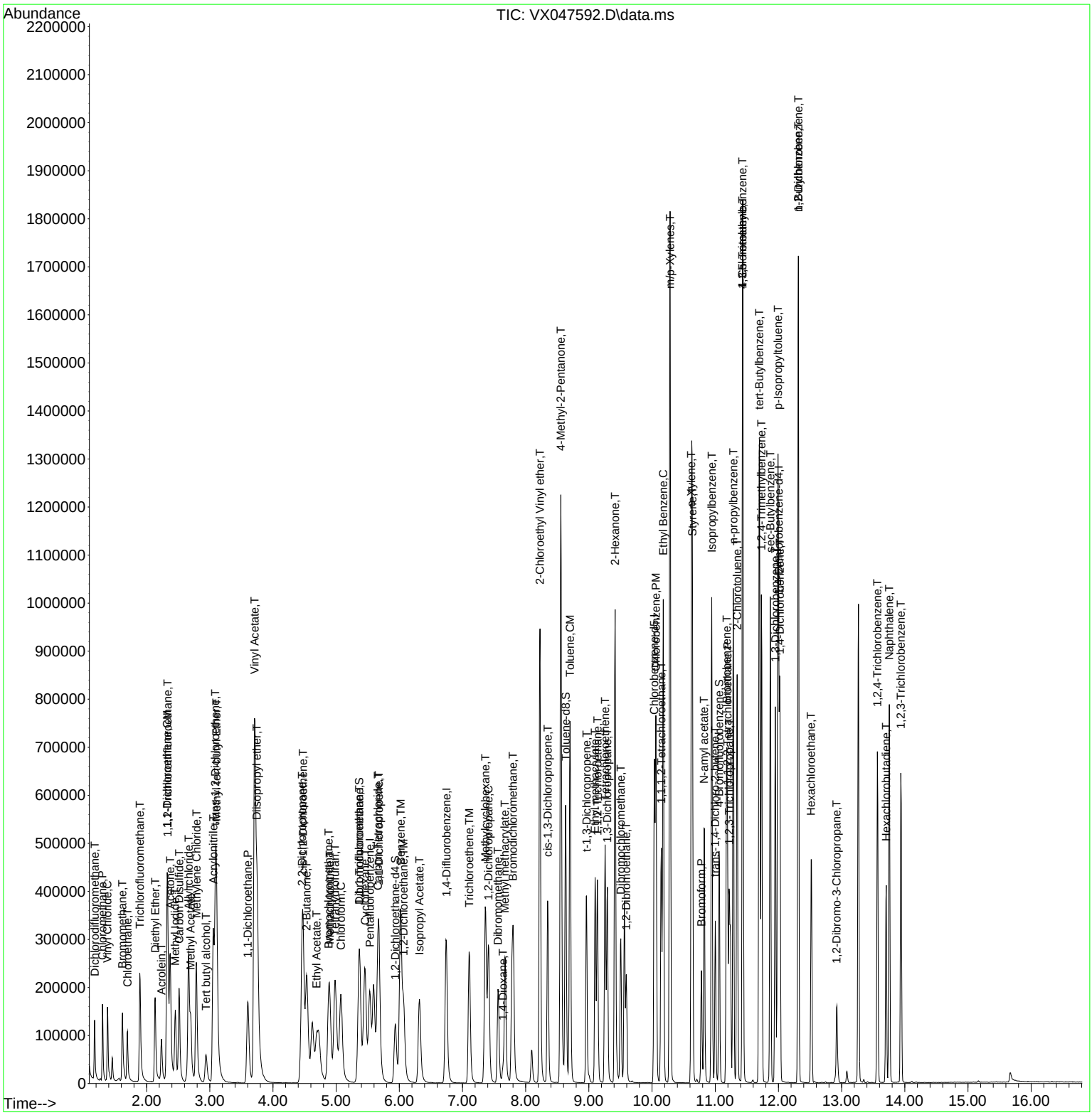
(#) = qualifier out of range (m) = manual integration (+) = signals summed

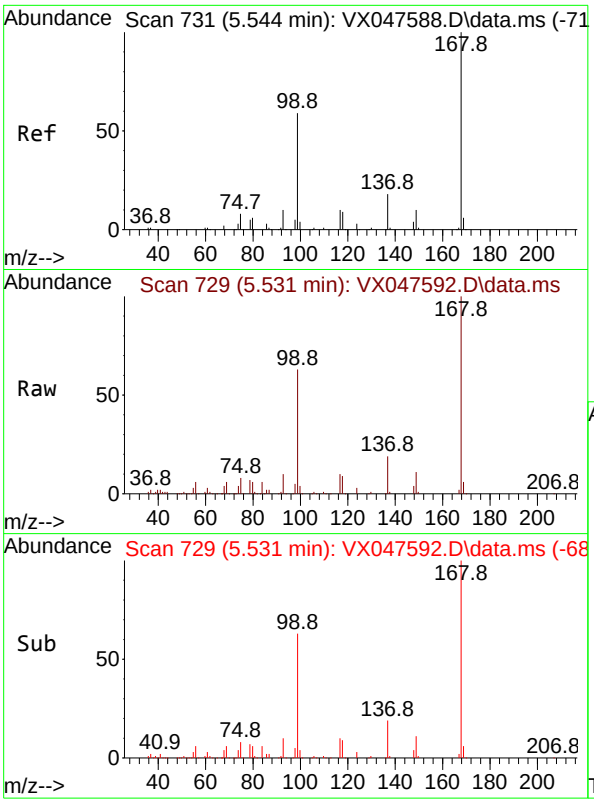
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 22 02:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



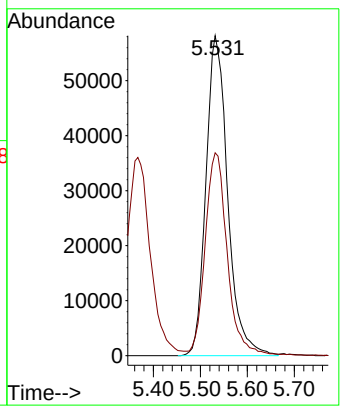


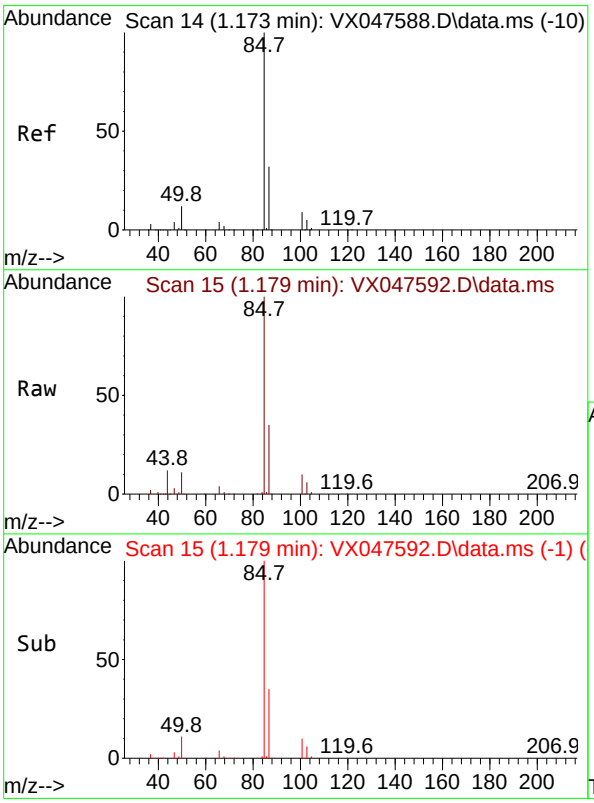
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:168 Resp: 186484

Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2

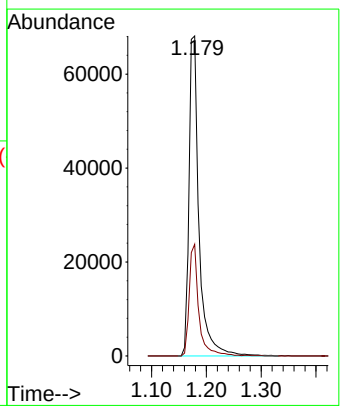


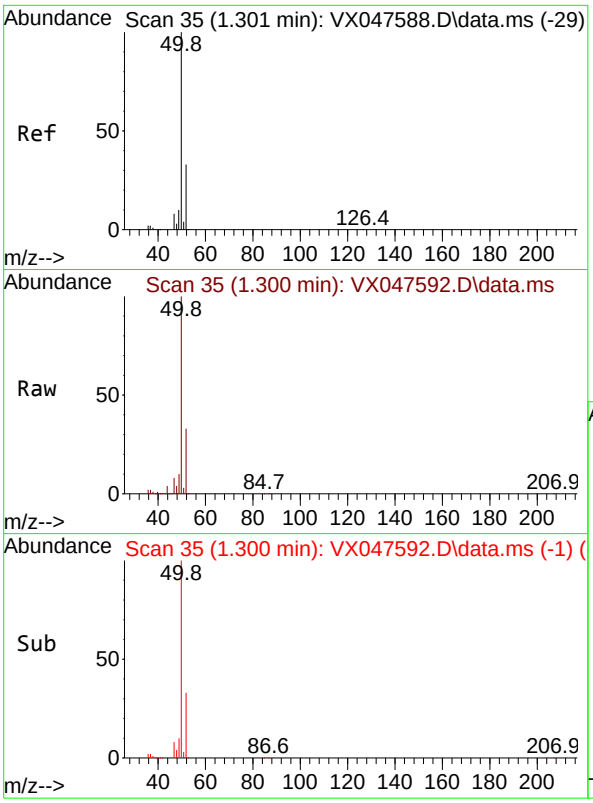


#2
Dichlorodifluoromethane
Concen: 44.592 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 85 Resp: 86110

Ion	Ratio	Lower	Upper
85	100		
87	34.9	15.8	47.3



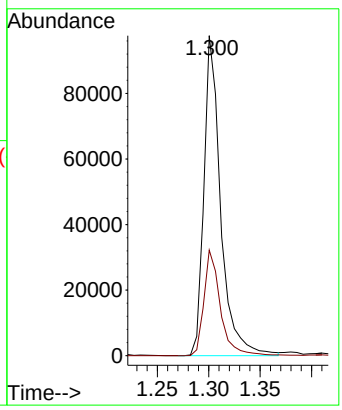


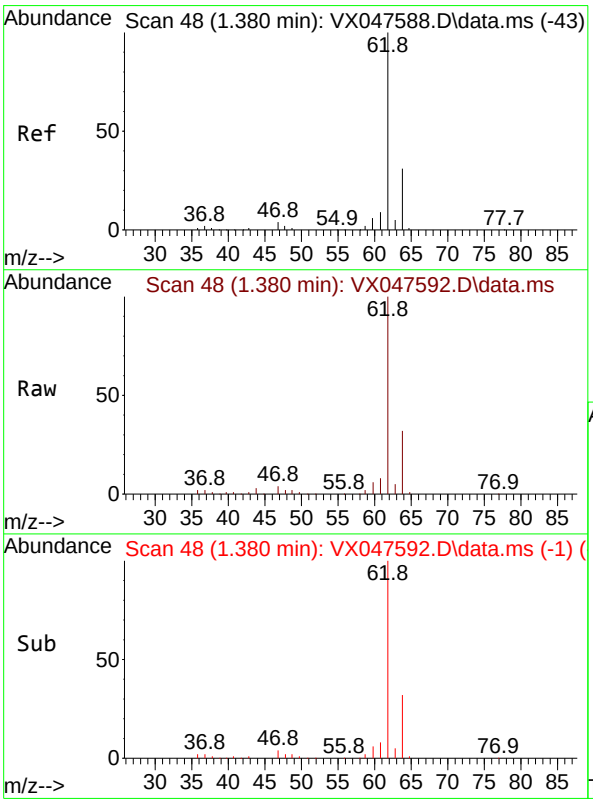
#3
Chloromethane
Concen: 43.710 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 50 Resp: 110935

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.1	39.1

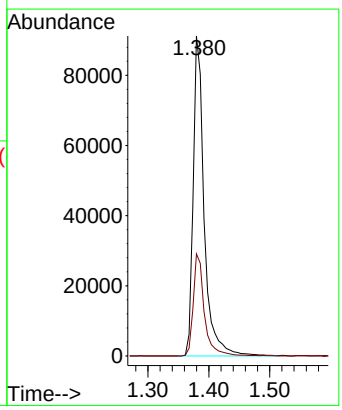


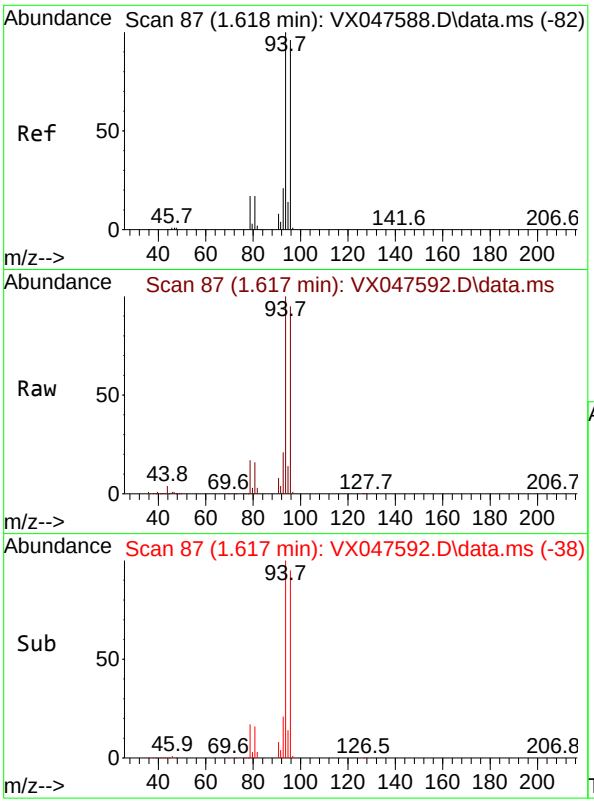


#4
Vinyl Chloride
Concen: 45.783 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 113742

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.9	37.3



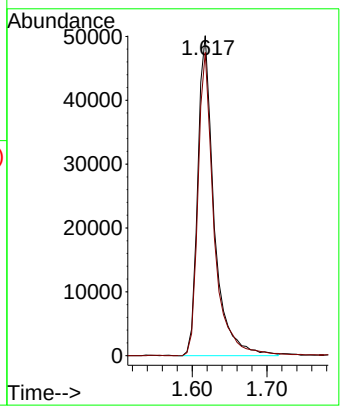


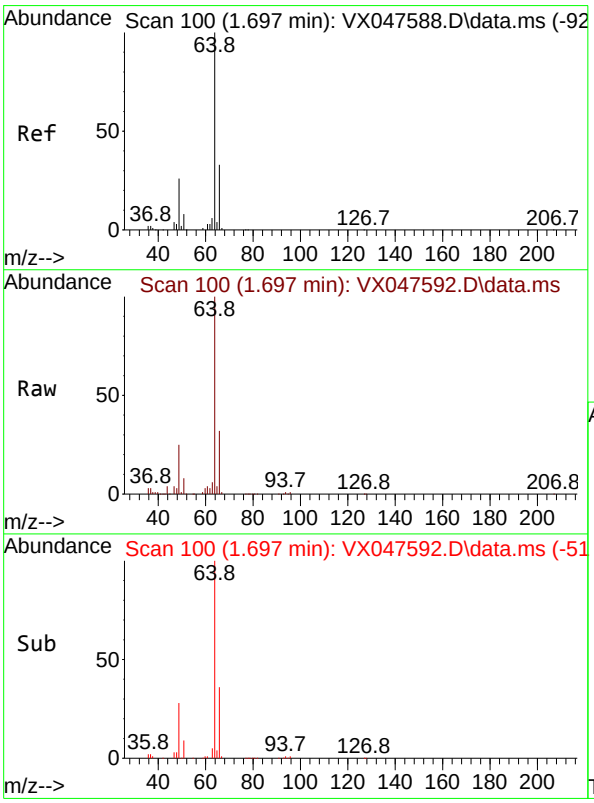
#5
Bromomethane
Concen: 48.489 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 94 Resp: 76388

Ion	Ratio	Lower	Upper
94	100		
96	94.7	76.6	115.0

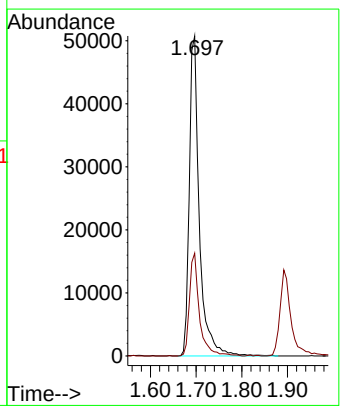


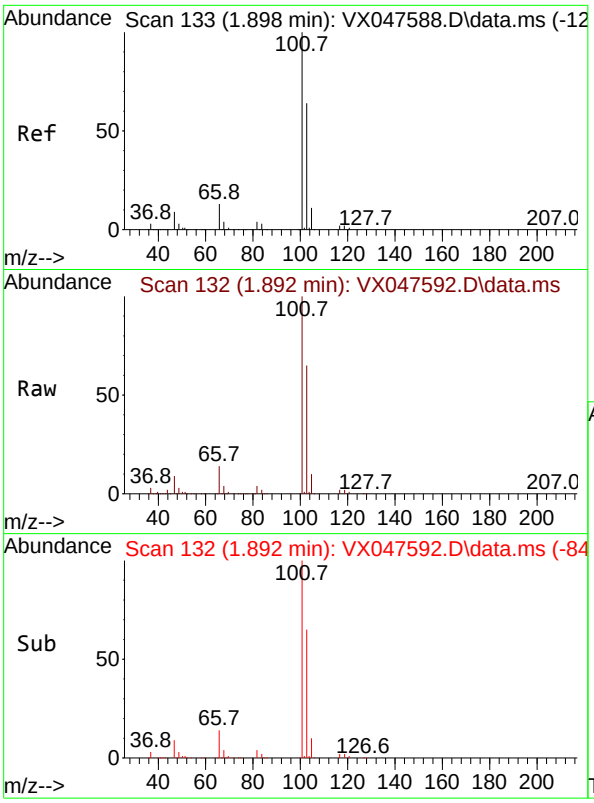


#6
Chloroethane
Concen: 46.575 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 64 Resp: 77337

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1



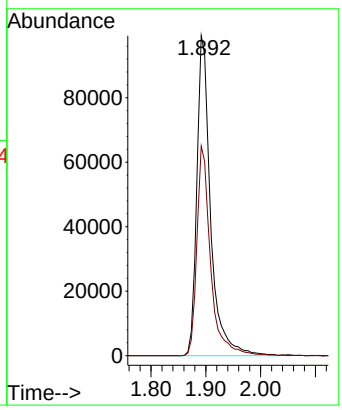


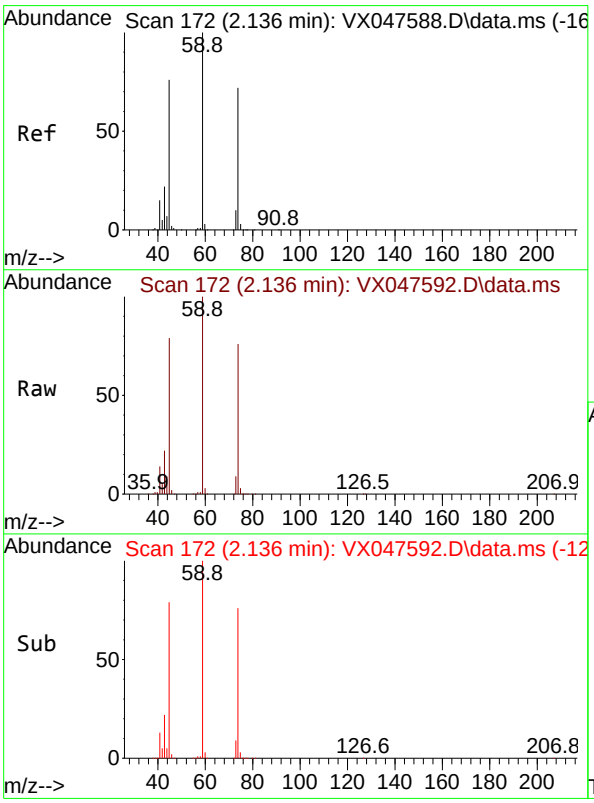
#7
Trichlorofluoromethane
Concen: 47.074 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:101 Resp: 173647

Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.4	77.2

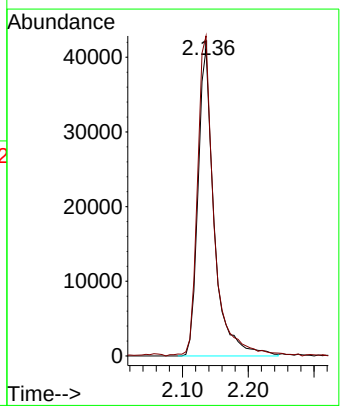


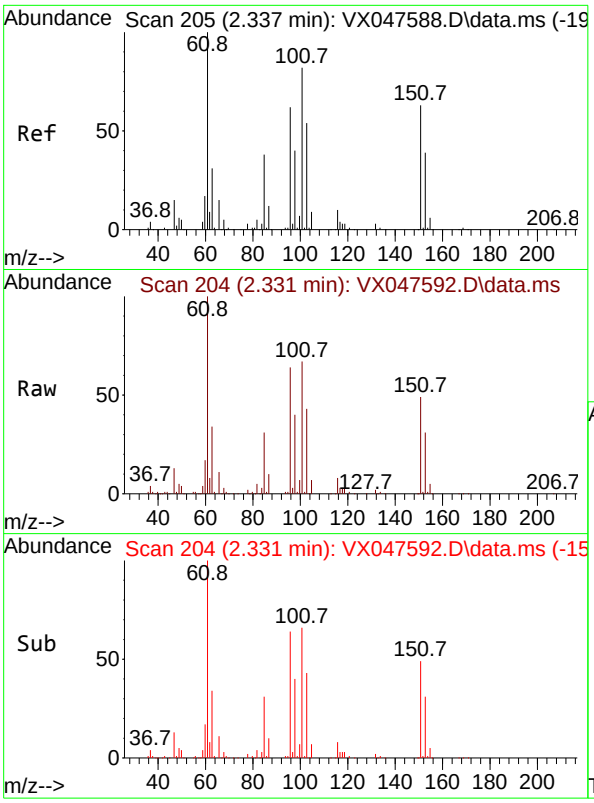


#8
Diethyl Ether
Concen: 46.693 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 74 Resp: 70459

Ion	Ratio	Lower	Upper
74	100		
45	107.1	52.3	156.8



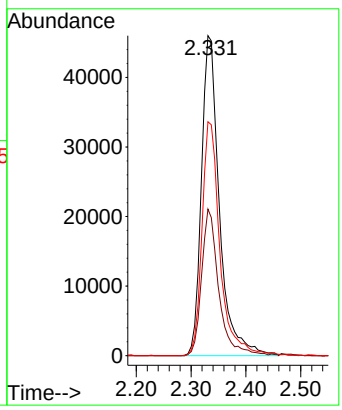


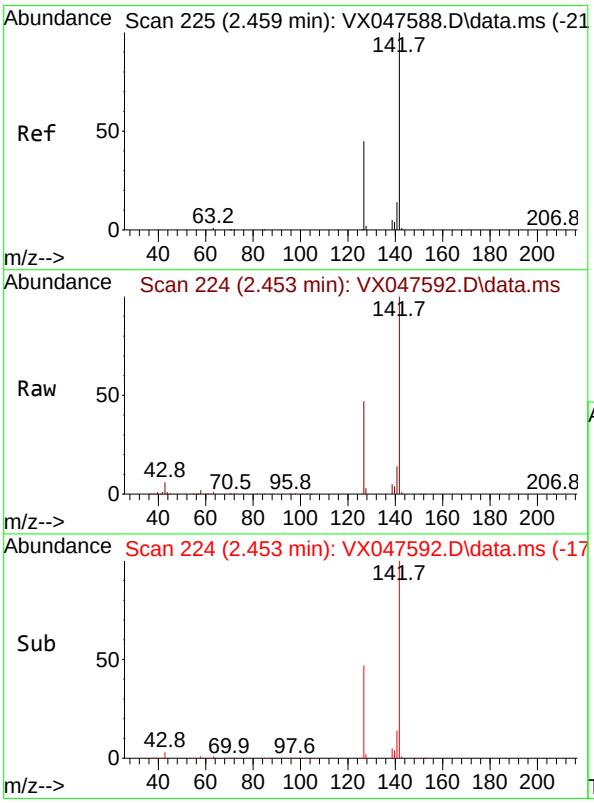
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.524 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:101 Resp: 104663

Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	73.3	59.4	89.0

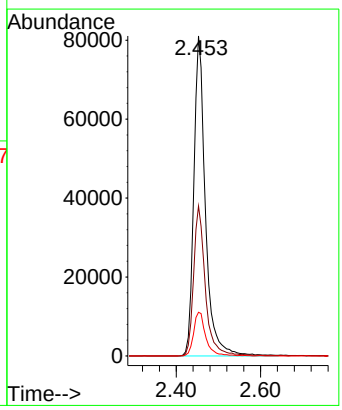


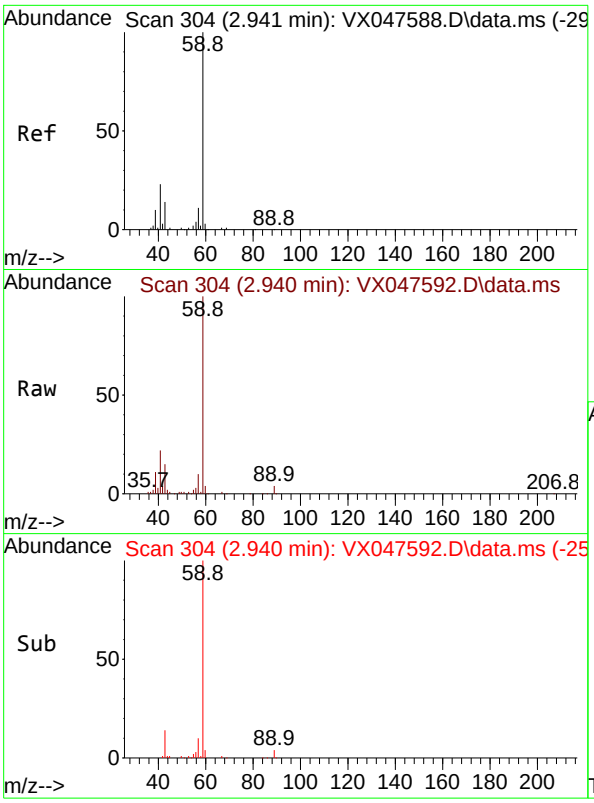


#10
Methyl Iodide
Concen: 46.210 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:142 Resp: 155450

Ion	Ratio	Lower	Upper
142	100		
127	47.6	37.2	55.8
141	14.4	11.4	17.0



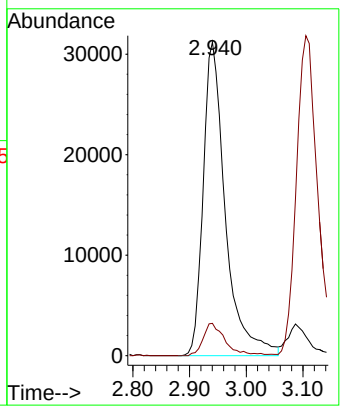


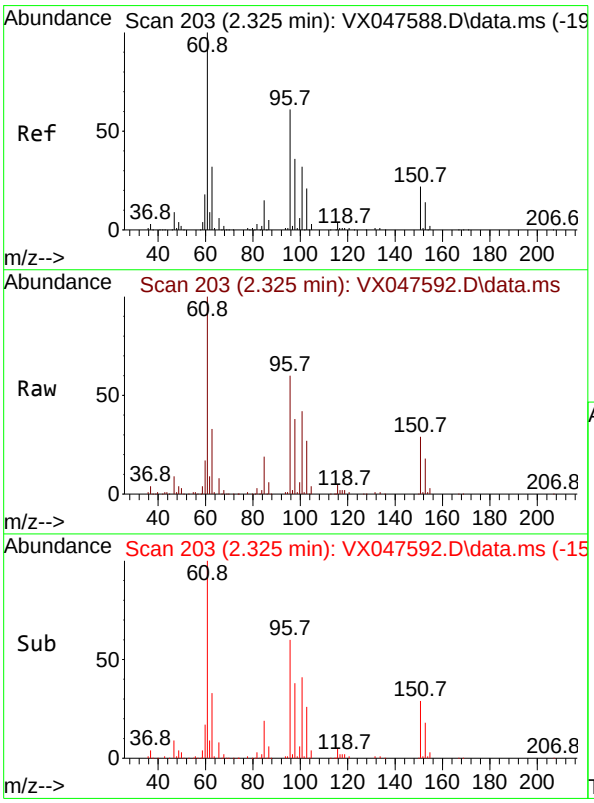
#11
Tert butyl alcohol
Concen: 256.271 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 59 Resp: 84722

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5

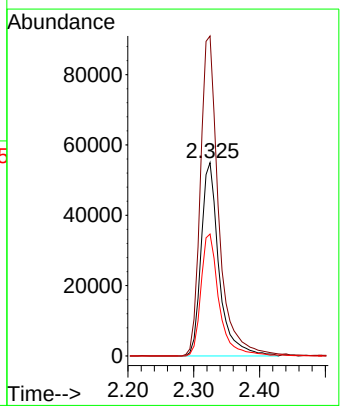


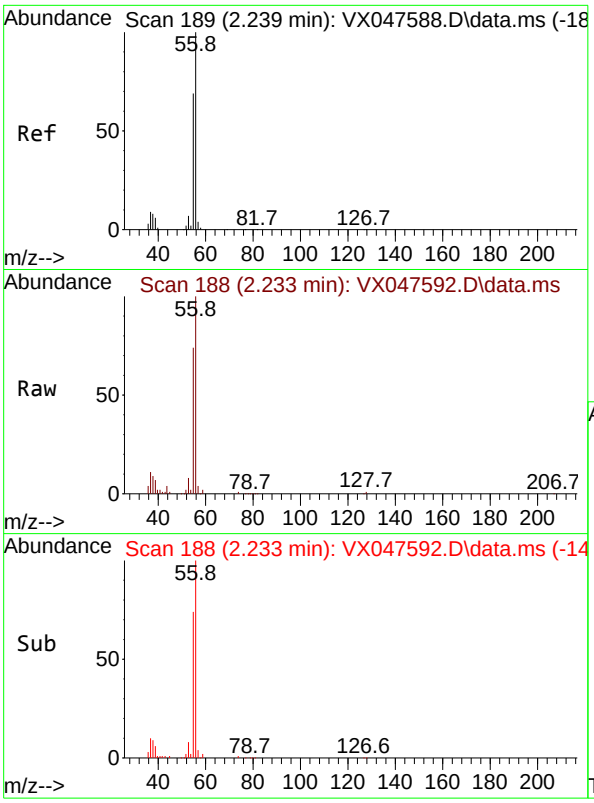


#12
1,1-Dichloroethene
Concen: 47.076 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 104302

Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.0	196.6
98	63.1	47.7	71.5



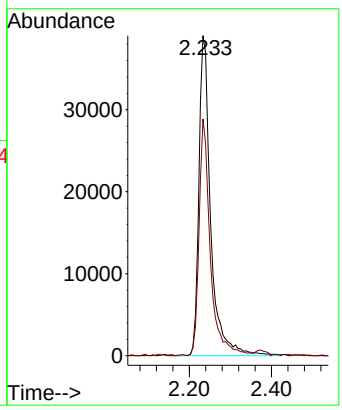


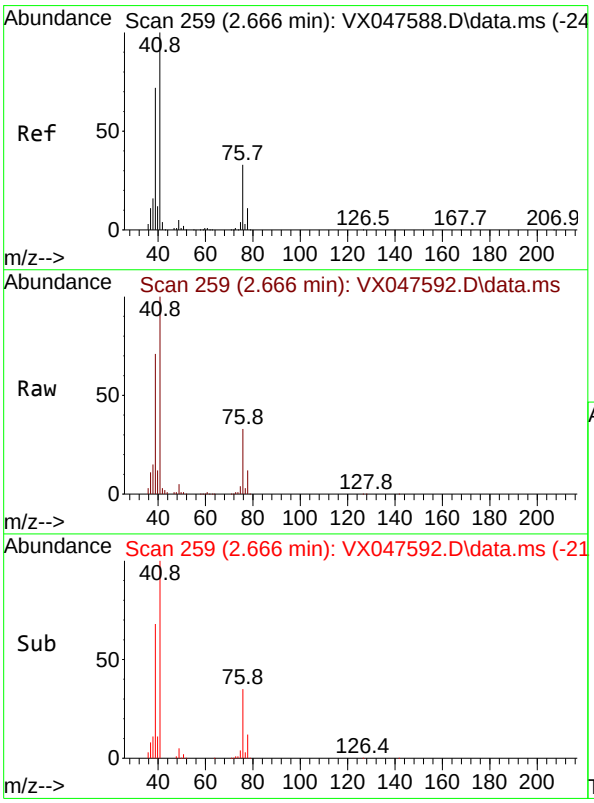
#13
Acrolein
Concen: 254.867 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 56 Resp: 77645

Ion	Ratio	Lower	Upper
56	100		
55	70.3	57.2	85.8

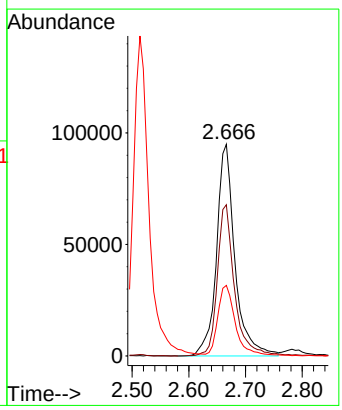


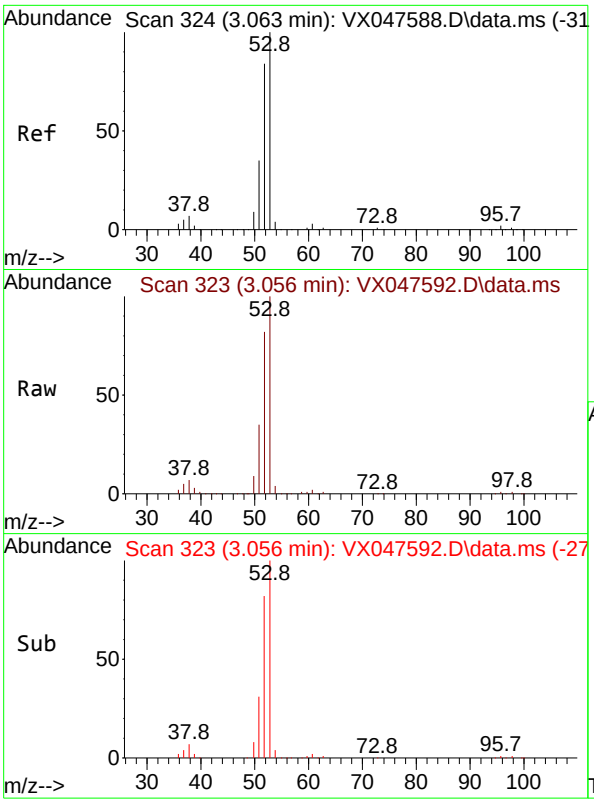


#14
Allyl chloride
Concen: 46.742 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 213704

Ion	Ratio	Lower	Upper
41	100		
39	67.2	54.7	82.1
76	31.7	25.7	38.5



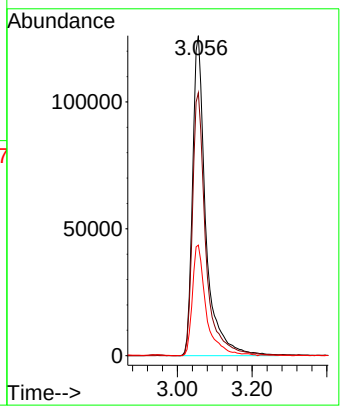


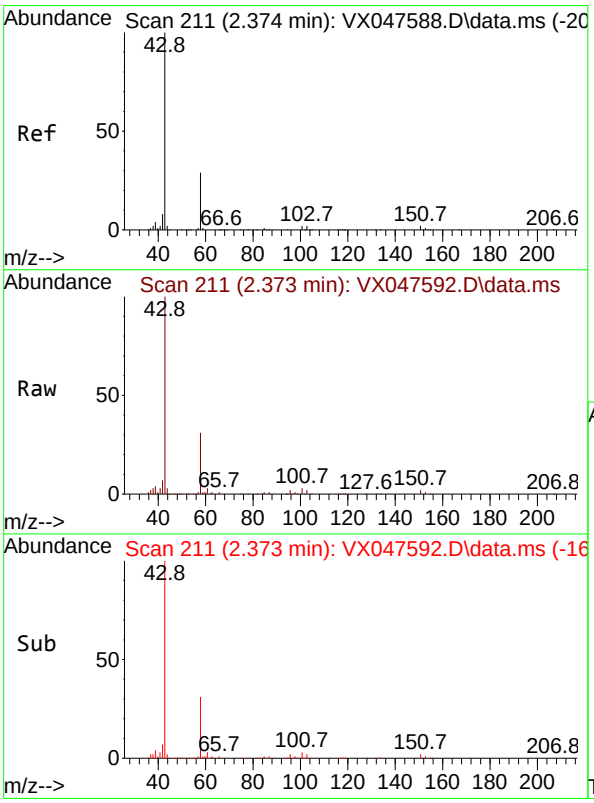
#15
Acrylonitrile
Concen: 253.567 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 53 Resp: 310505

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.2	29.5	44.3

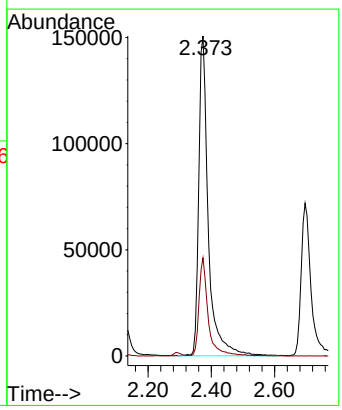


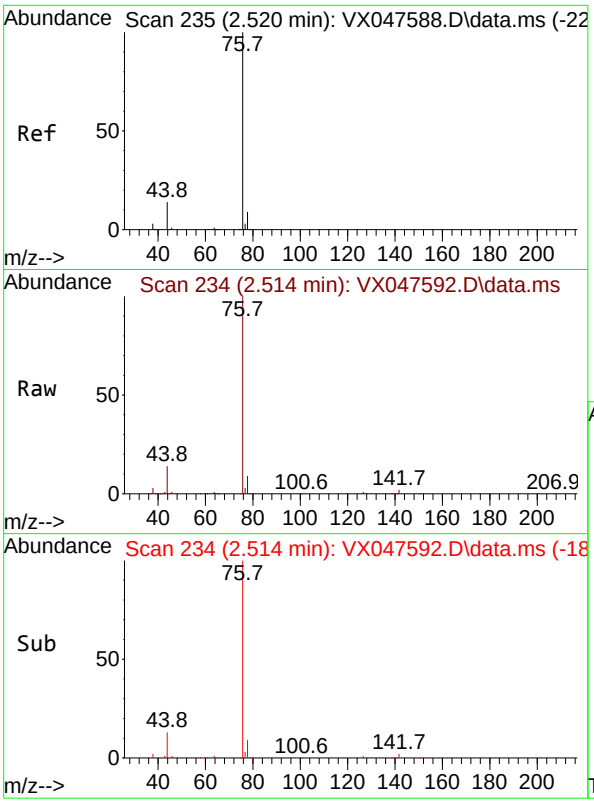


#16
Acetone
Concen: 245.006 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 316217

Ion	Ratio	Lower	Upper
43	100		
58	30.6	23.4	35.0



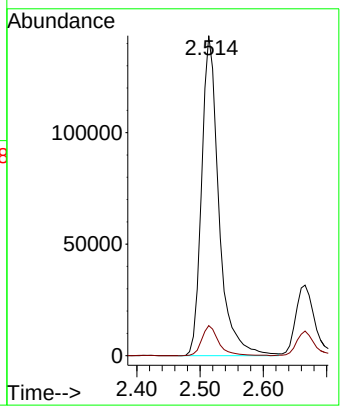


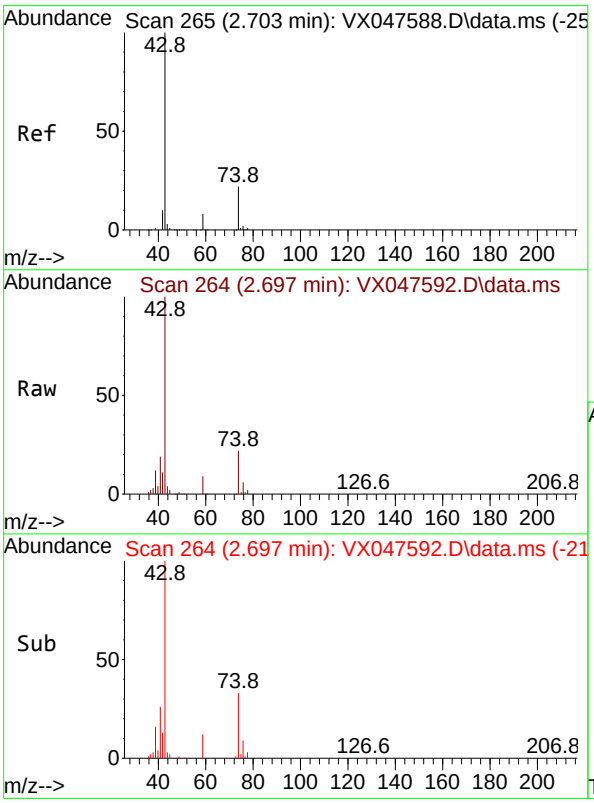
#17
Carbon Disulfide
Concen: 44.966 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 76 Resp: 272741

Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.8	10.2

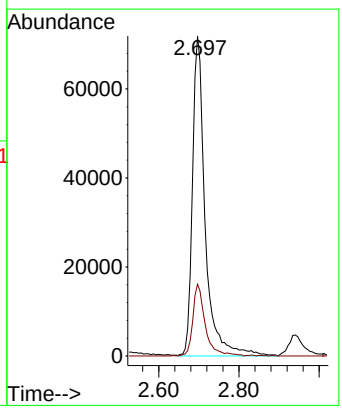


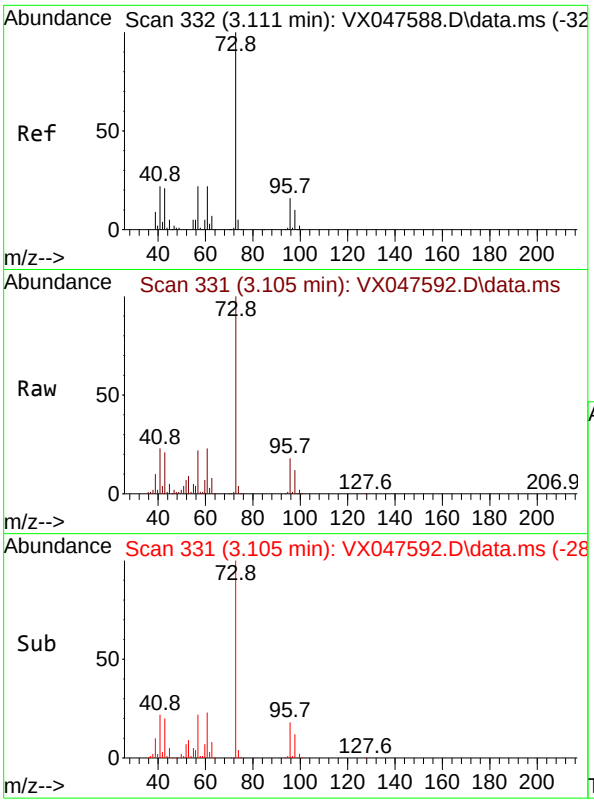


#18
Methyl Acetate
Concen: 55.175 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 158480

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2



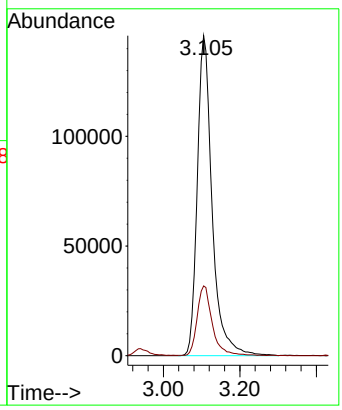


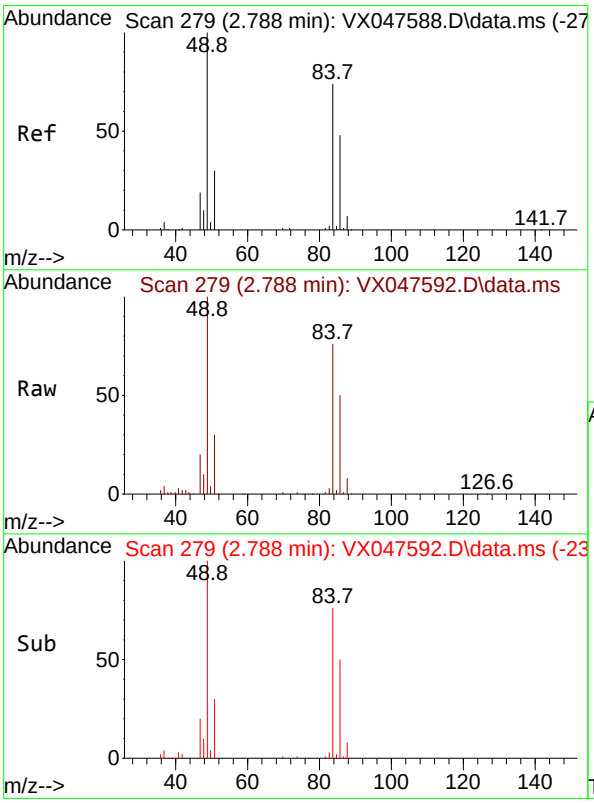
#19
Methyl tert-butyl Ether
Concen: 48.538 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 73 Resp: 392574

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2

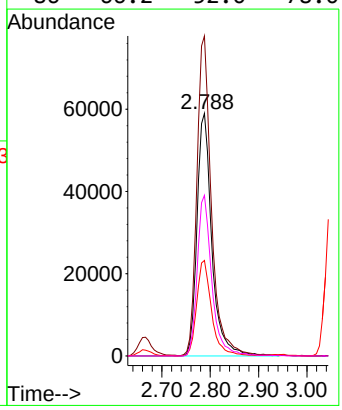


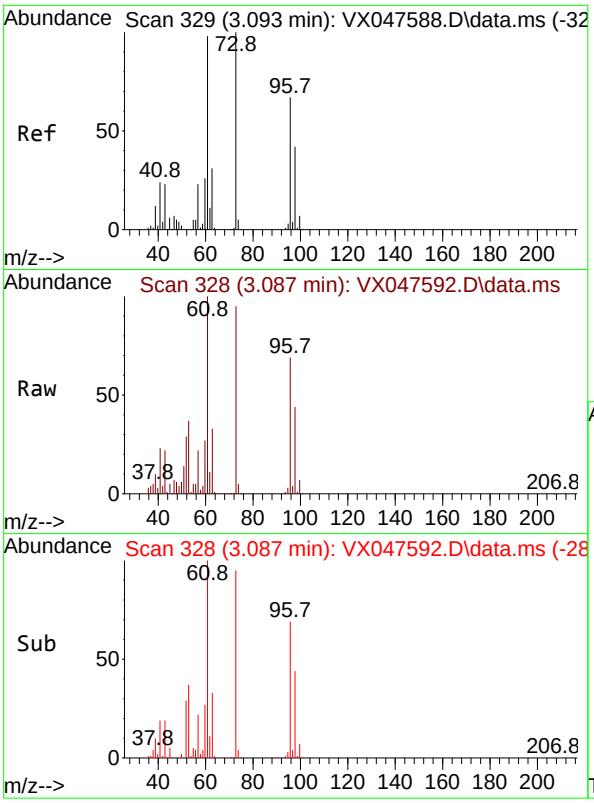


#20
Methylene Chloride
Concen: 46.000 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 84 Resp: 125669

Ion	Ratio	Lower	Upper
84	100		
49	131.8	108.6	162.8
51	39.4	32.6	48.8
86	66.2	52.0	78.0



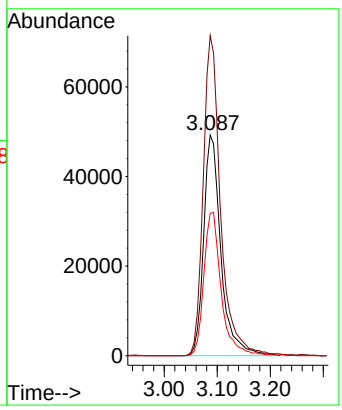


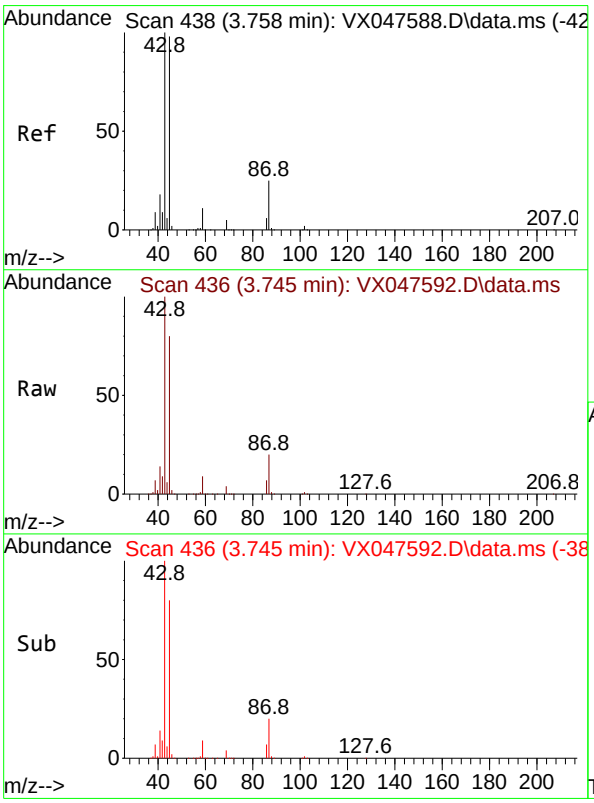
#21
trans-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 96 Resp: 111418

Ion	Ratio	Lower	Upper
96	100		
61	145.1	116.2	174.2
98	64.5	49.3	73.9

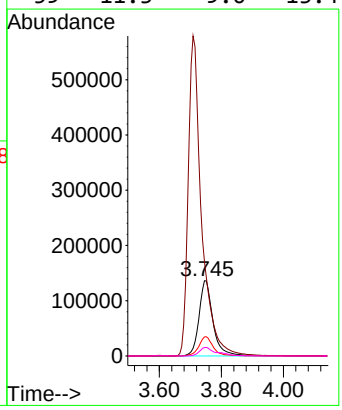


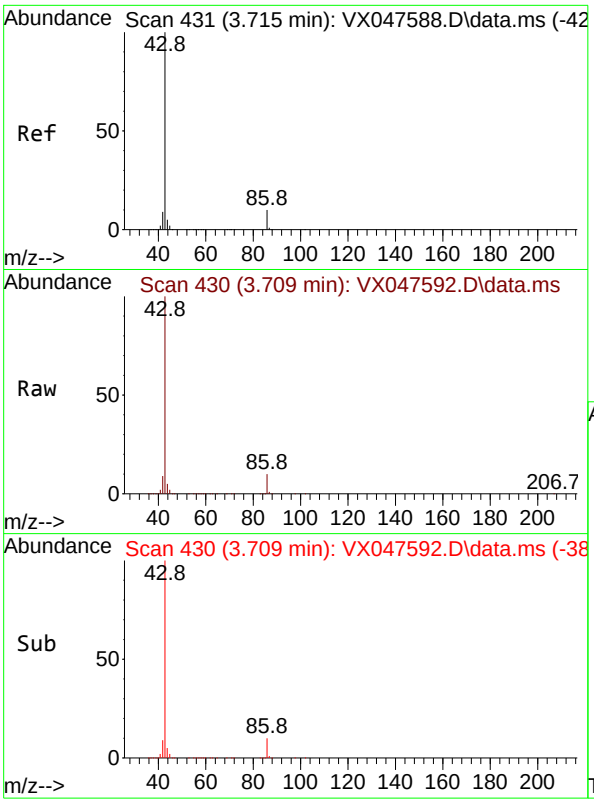


#22
Diisopropyl ether
Concen: 48.174 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 45 Resp: 426854

Ion	Ratio	Lower	Upper
45	100		
43	124.9	81.0	121.4#
87	25.2	20.3	30.5
59	11.3	9.0	13.4



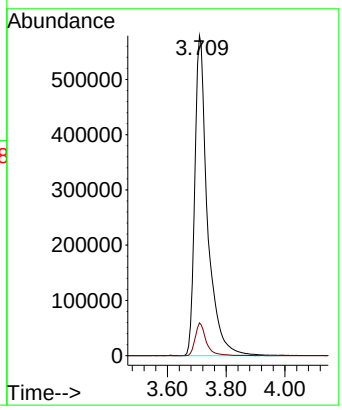


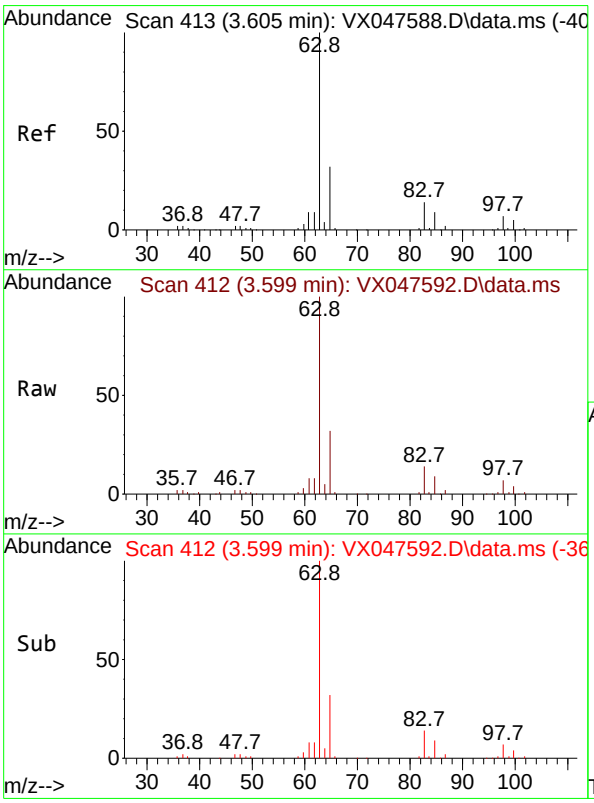
#23
Vinyl Acetate
Concen: 245.539 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 1741267

Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.8	11.8

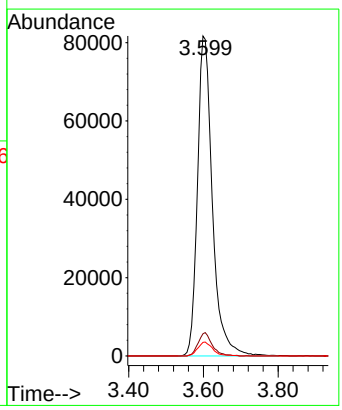


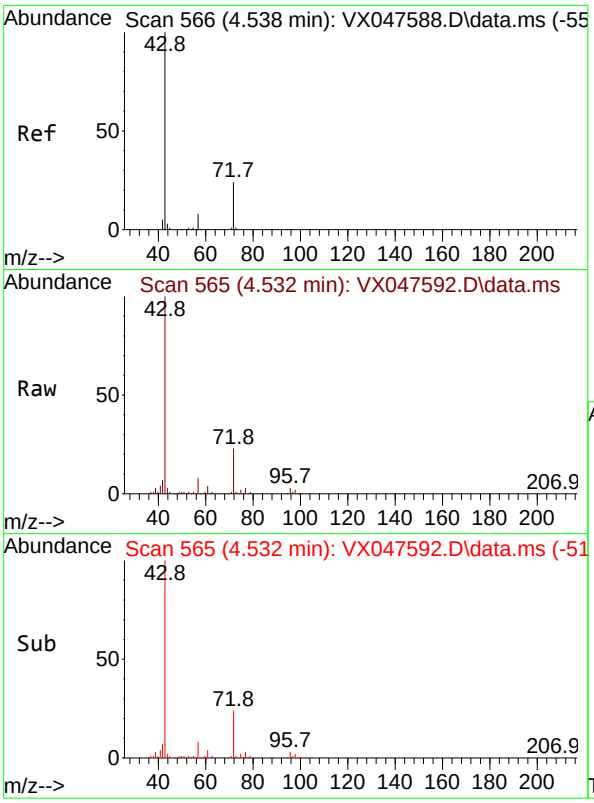


#24
1,1-Dichloroethane
Concen: 48.041 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 226249

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.8	11.2
100	4.4	2.3	6.9



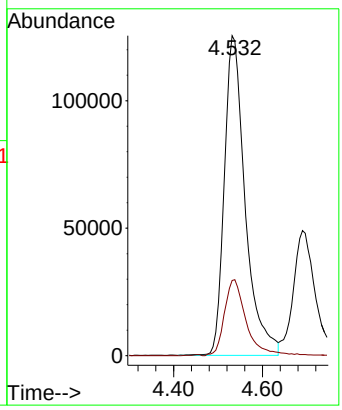


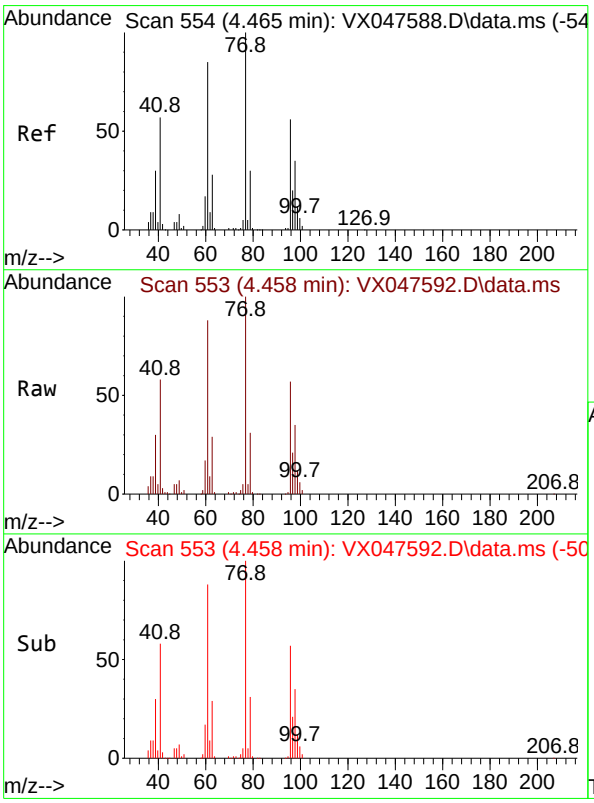
#25
2-Butanone
Concen: 253.598 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 408273

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.1	30.1

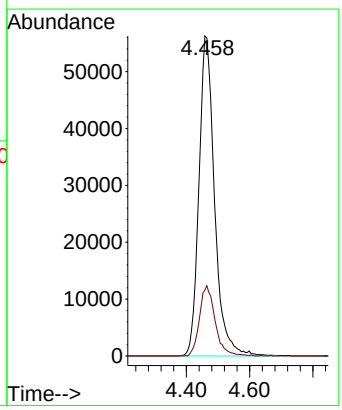


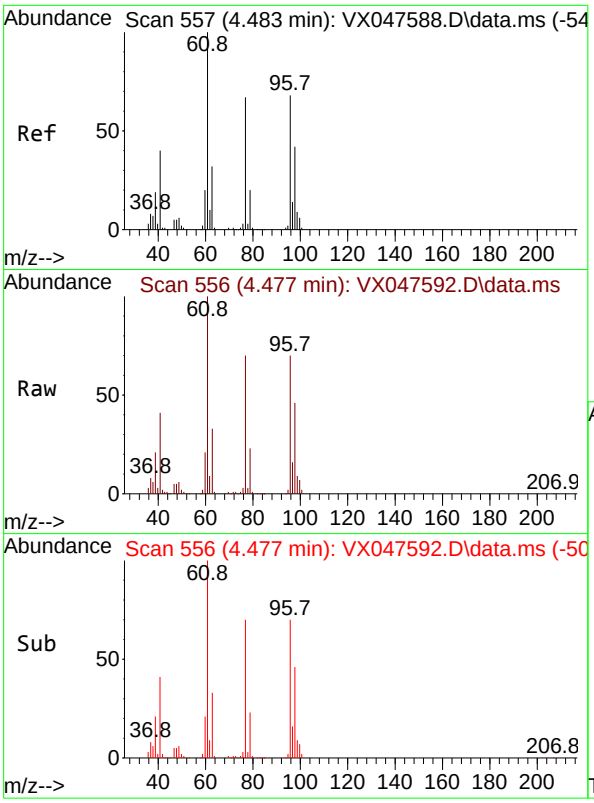


#26
2,2-Dichloropropane
Concen: 49.494 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 77 Resp: 193760

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.9	32.7



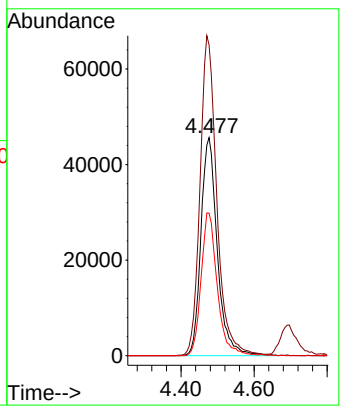


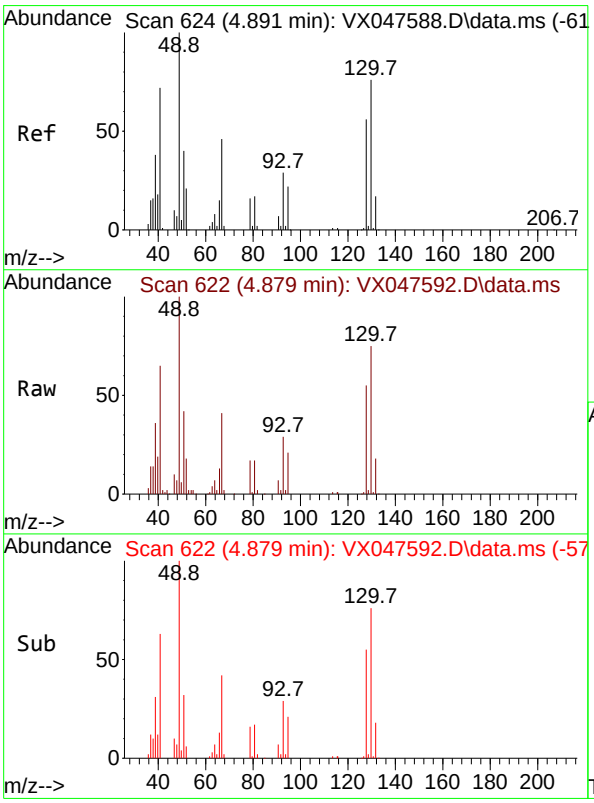
#27
cis-1,2-Dichloroethene
Concen: 48.826 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 96 Resp: 142635

Ion	Ratio	Lower	Upper
96	100		
61	149.7	0.0	303.2
98	64.3	0.0	127.8

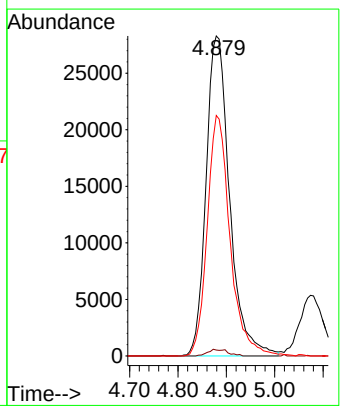


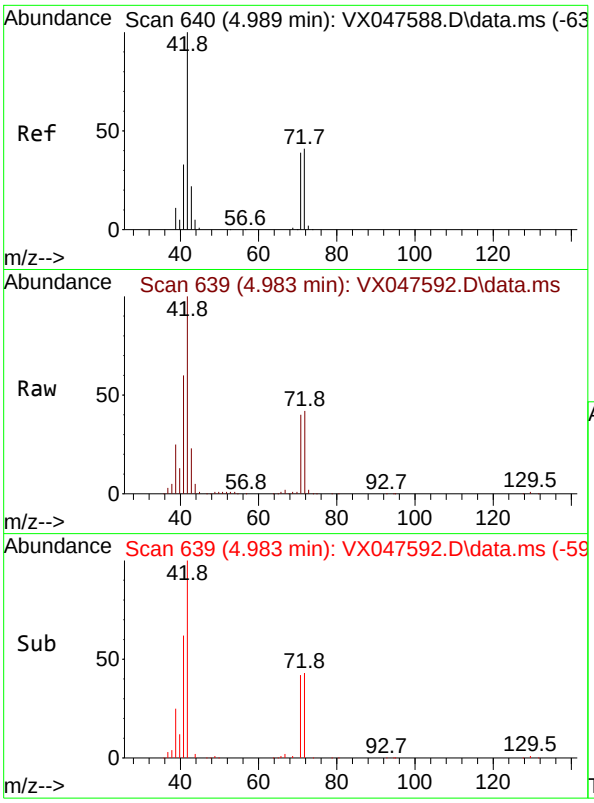


#28
Bromochloromethane
Concen: 46.586 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 49 Resp: 95782

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.9	57.8	86.8



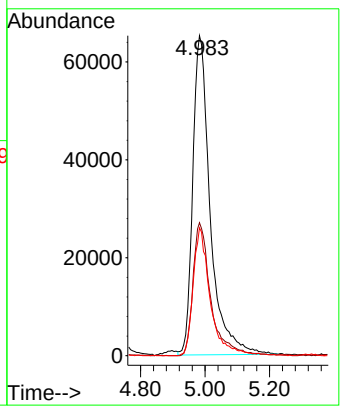


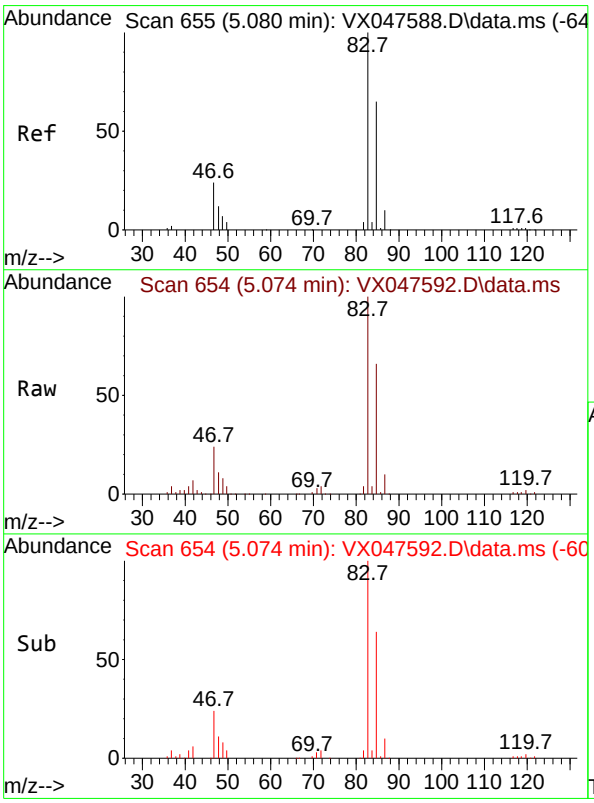
#29
Tetrahydrofuran
Concen: 253.375 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 42 Resp: 245392

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	38.9	31.9	47.9

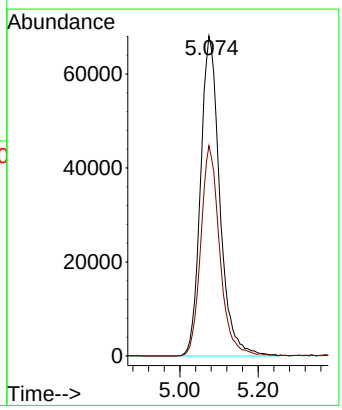


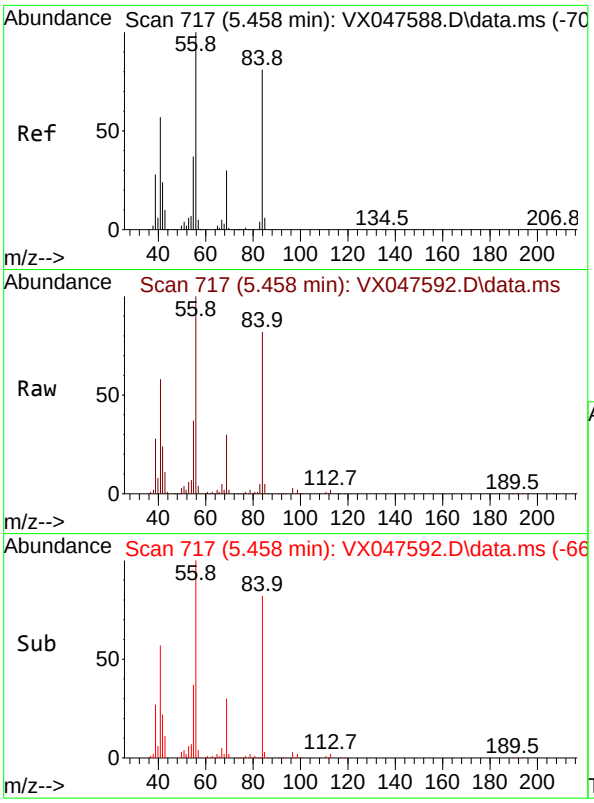


#30
Chloroform
Concen: 48.739 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 231954

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.8	77.6



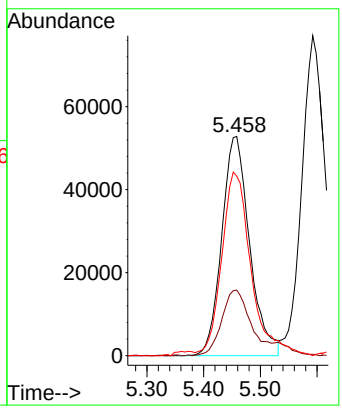


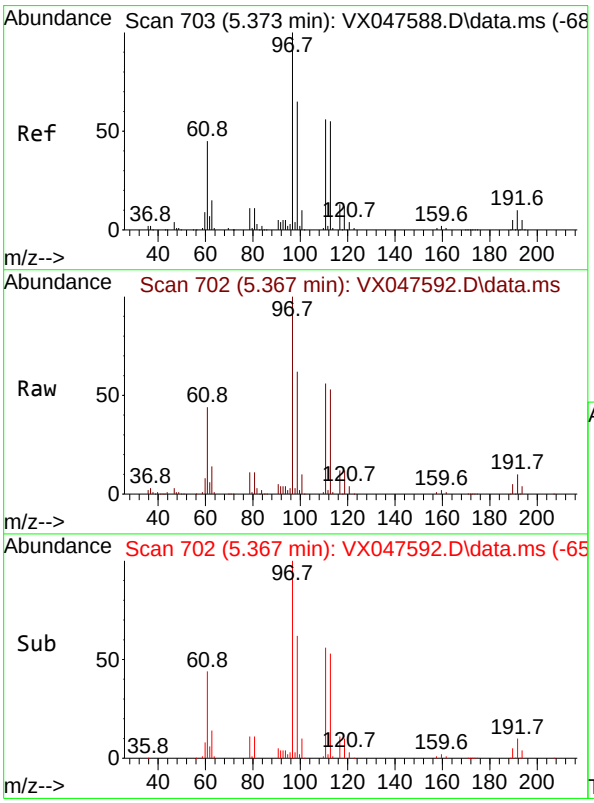
#31
Cyclohexane
Concen: 45.999 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 56 Resp: 180430

Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.8	35.8
84	80.3	64.6	97.0

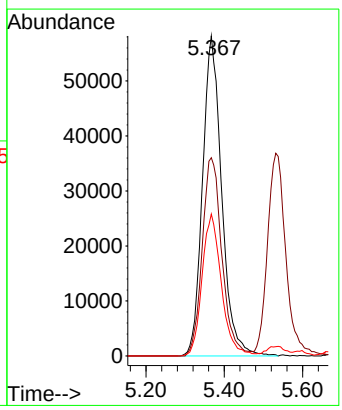


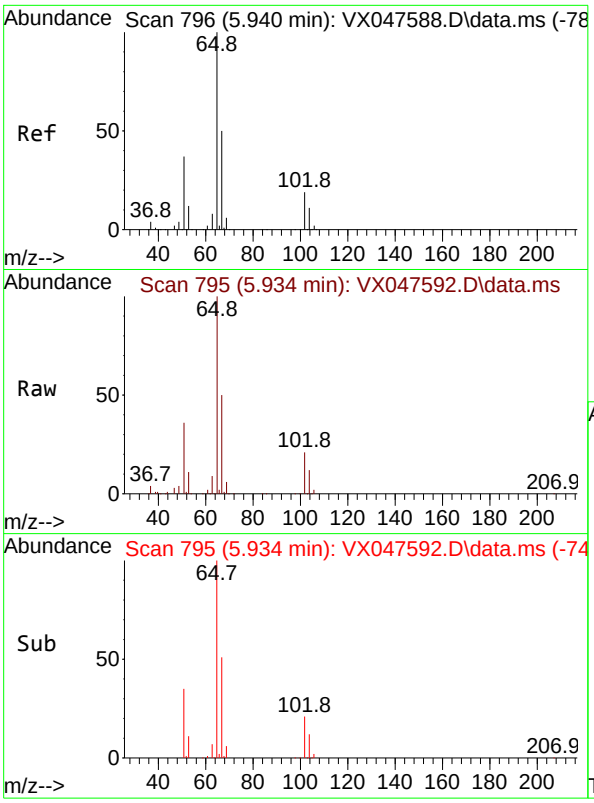


#32
1,1,1-Trichloroethane
Concen: 48.978 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 97 Resp: 197711

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	44.6	35.8	53.8



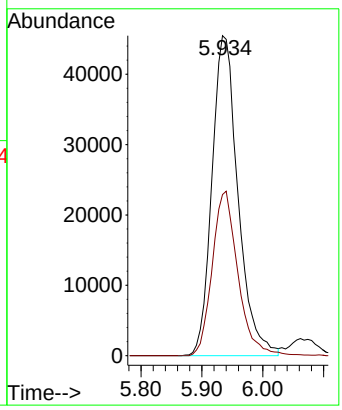


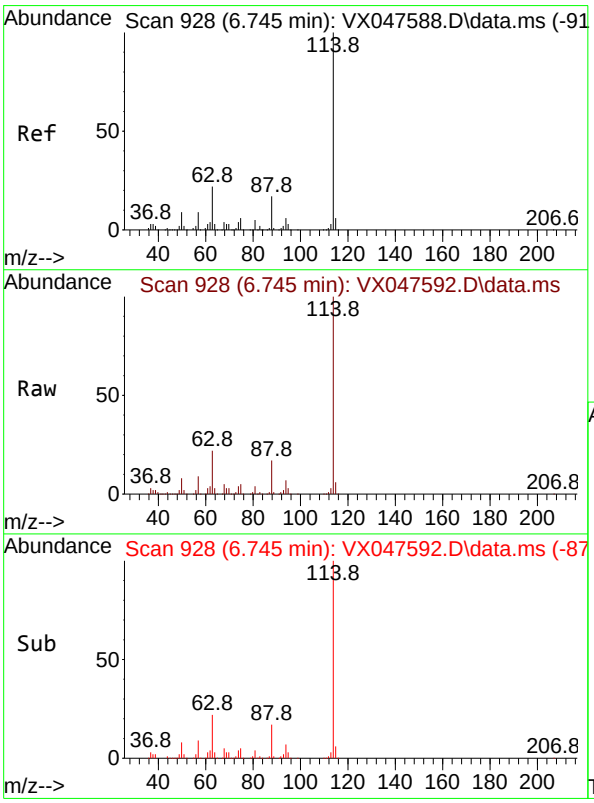
#33
1,2-Dichloroethane-d4
Concen: 45.550 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 65 Resp: 135209

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	103.0

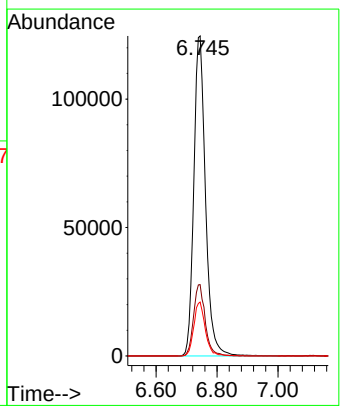


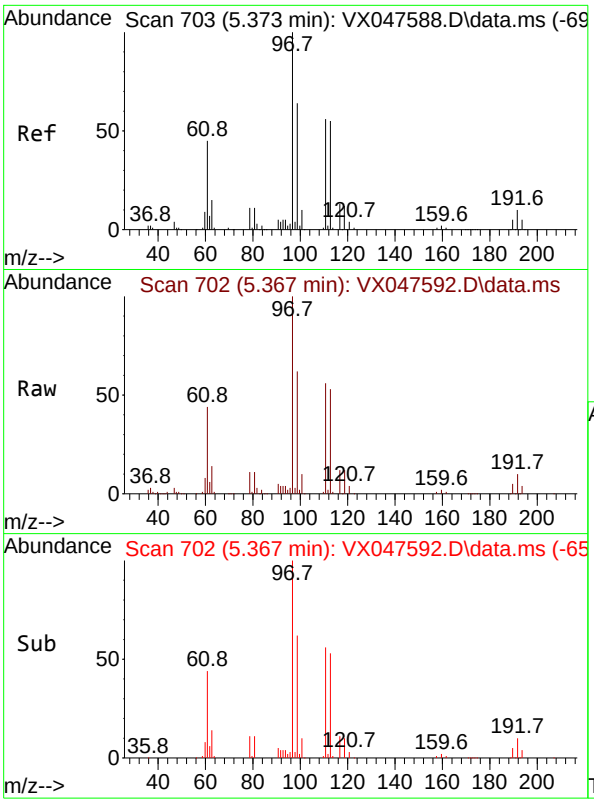


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:114 Resp: 331837

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2



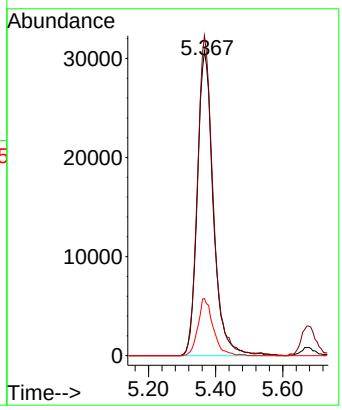


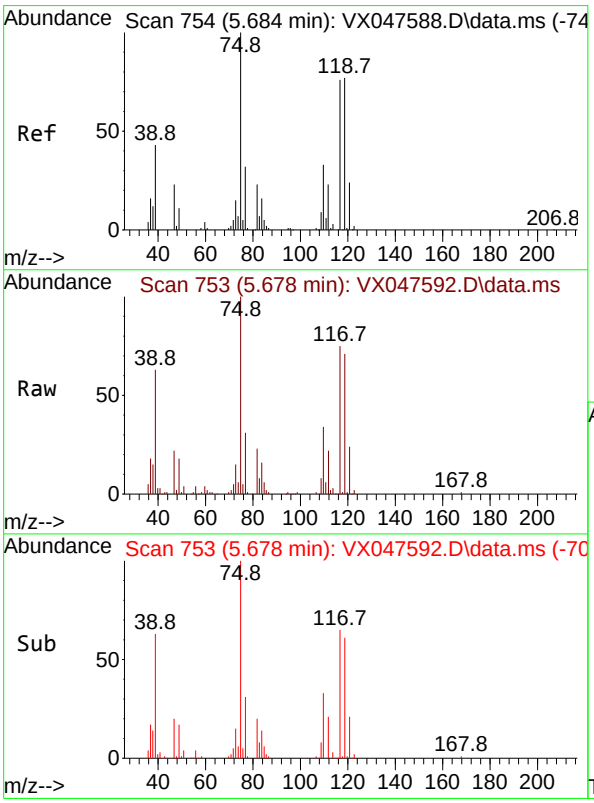
#35
Dibromofluoromethane
Concen: 45.559 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:113 Resp: 101390

Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.9	121.3
192	17.9	14.2	21.4

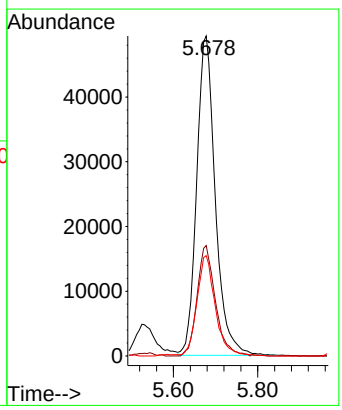


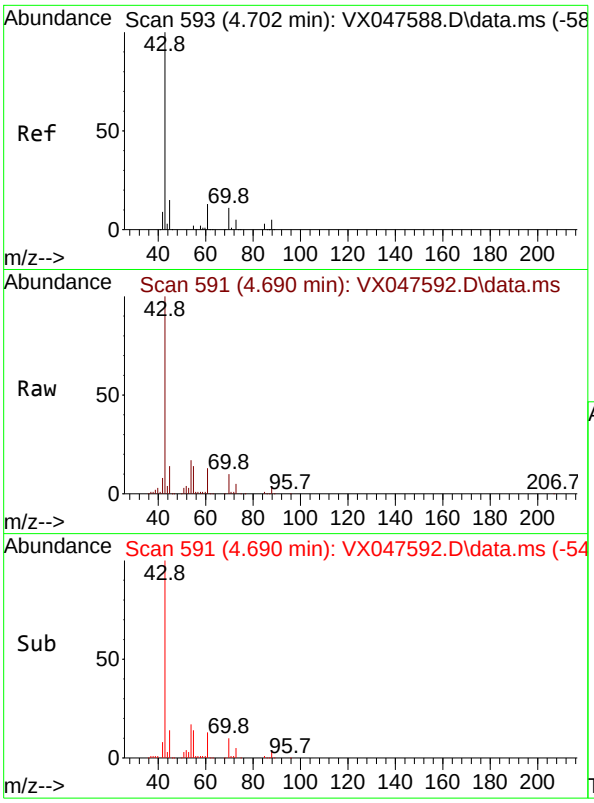


#36
1,1-Dichloropropene
Concen: 46.663 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 151745

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.0	24.3	36.5



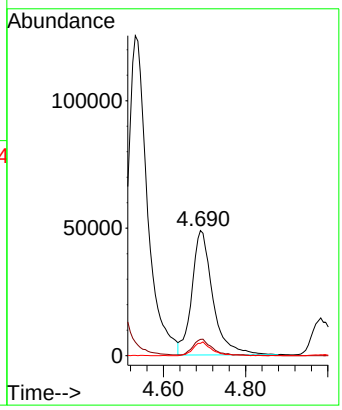


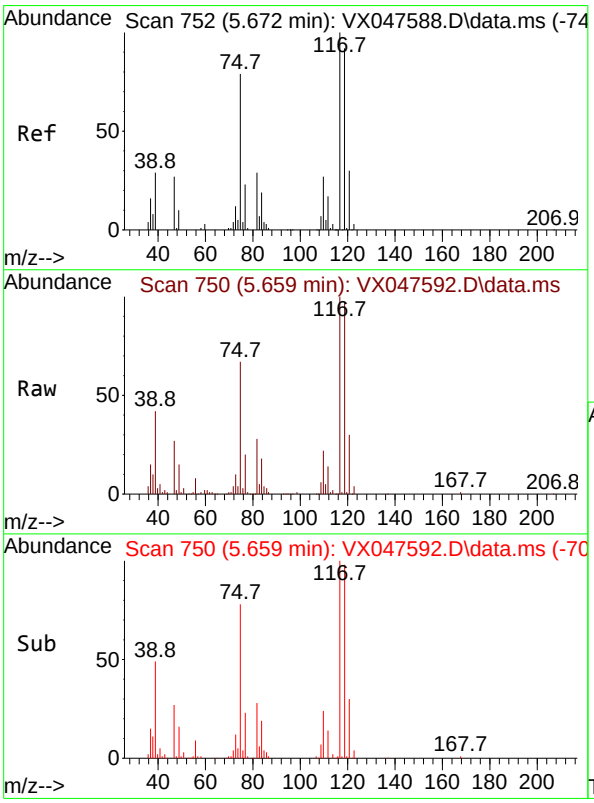
#37
Ethyl Acetate
Concen: 49.241 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 171454

Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	9.8	7.9	11.9

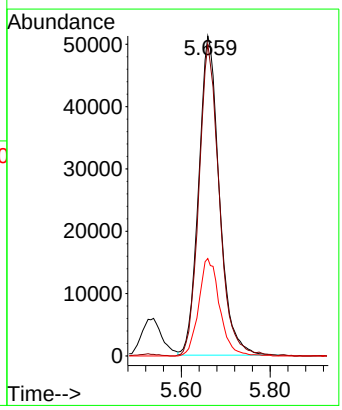


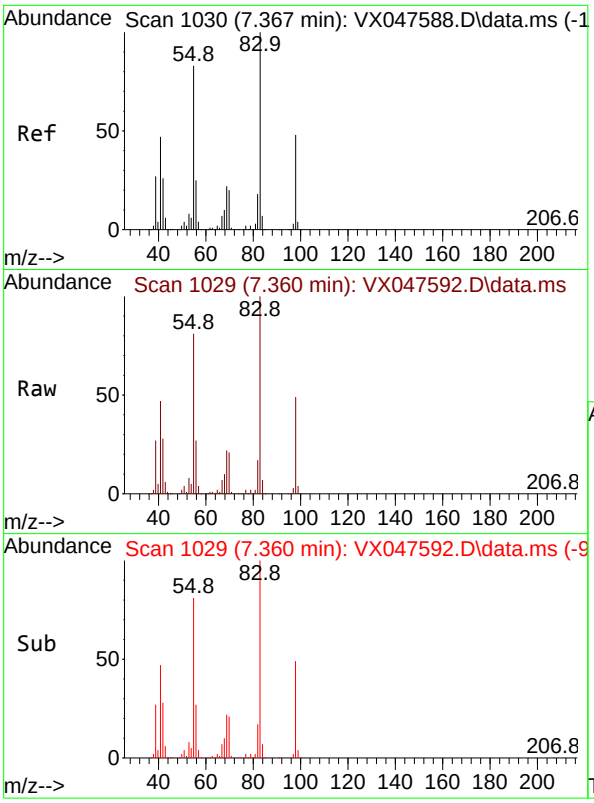


#38
Carbon Tetrachloride
Concen: 46.935 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 165834

Ion	Ratio	Lower	Upper
117	100		
119	97.6	73.4	110.2
121	30.5	23.8	35.6



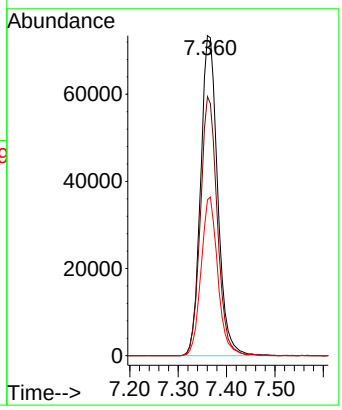


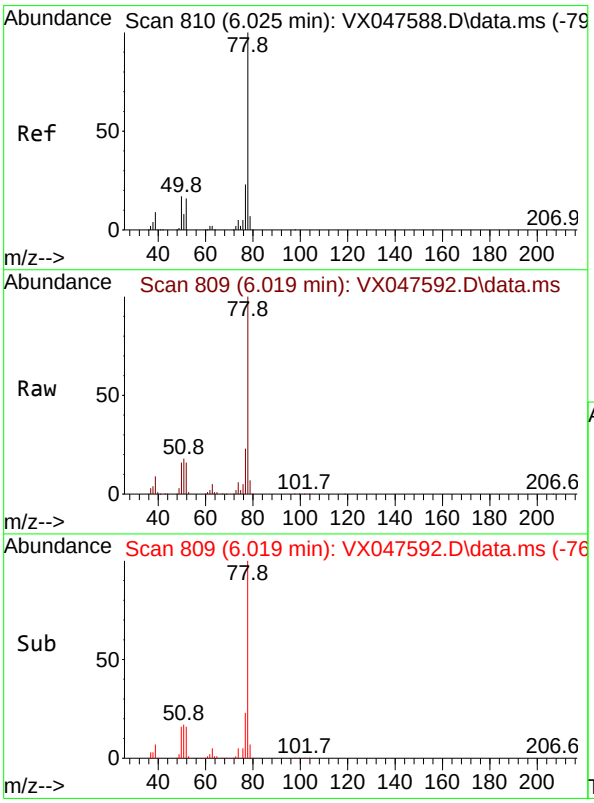
#39
Methylcyclohexane
Concen: 48.597 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 83 Resp: 179392

Ion	Ratio	Lower	Upper
83	100		
55	81.0	66.4	99.6
98	48.7	38.1	57.1

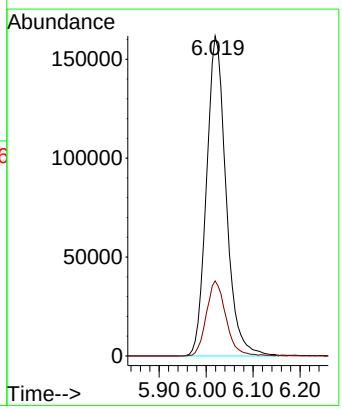


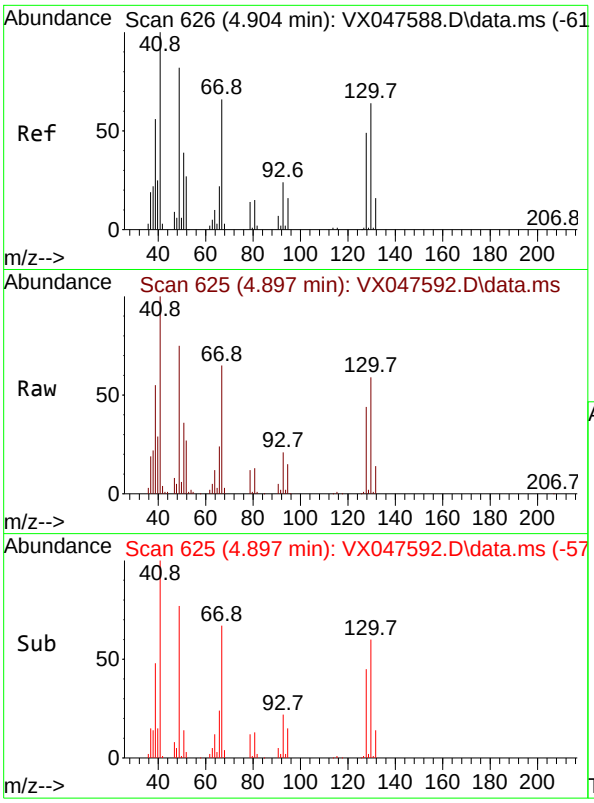


#40
Benzene
Concen: 47.357 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 78 Resp: 467748

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



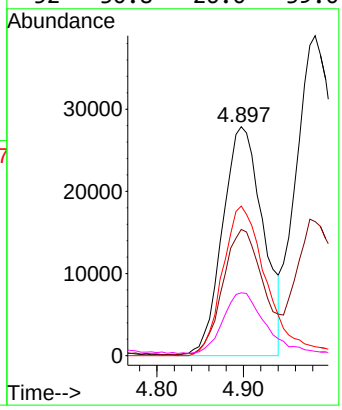


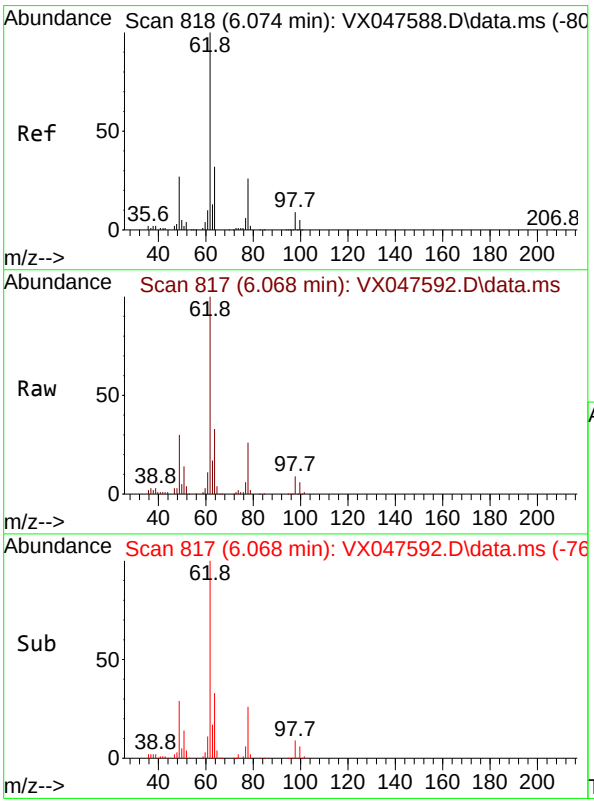
#41
Methacrylonitrile
Concen: 50.490 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 41 Resp: 90758

Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.3	64.9
67	72.5	58.6	87.8
52	30.8	26.0	39.0

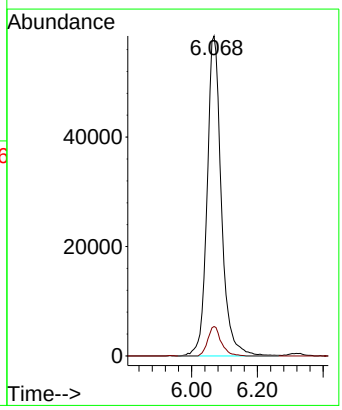


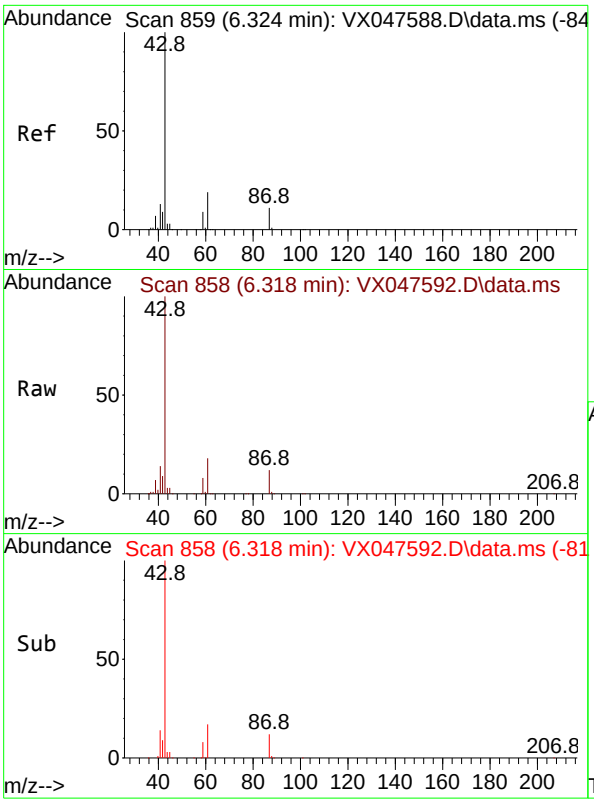


#42
1,2-Dichloroethane
Concen: 46.867 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 176131

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0



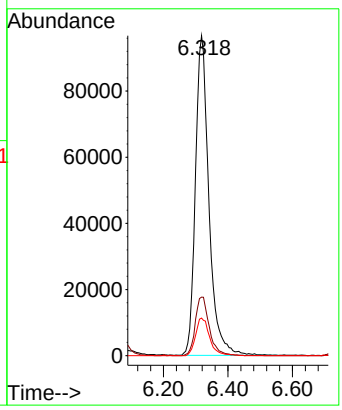


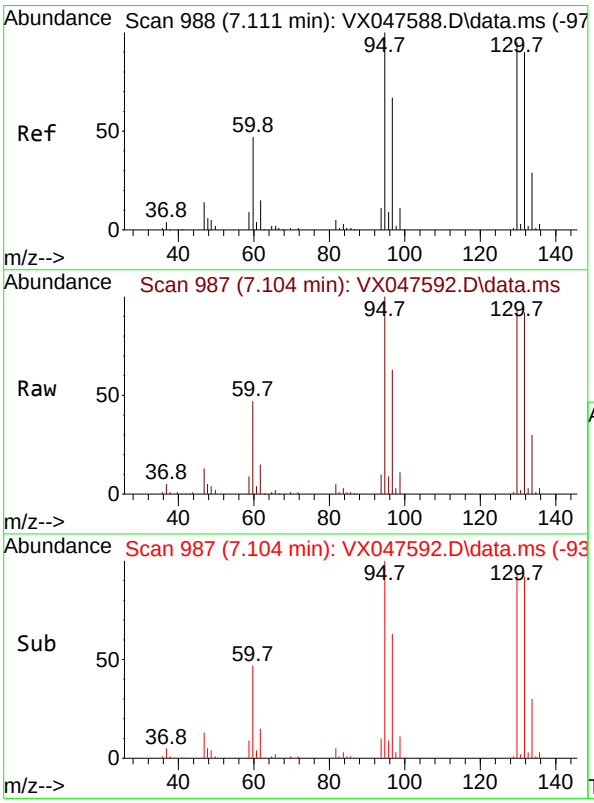
#43
Isopropyl Acetate
Concen: 49.136 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 280595

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.2	22.8
87	12.2	9.6	14.4

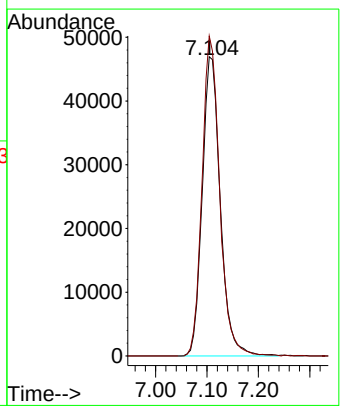


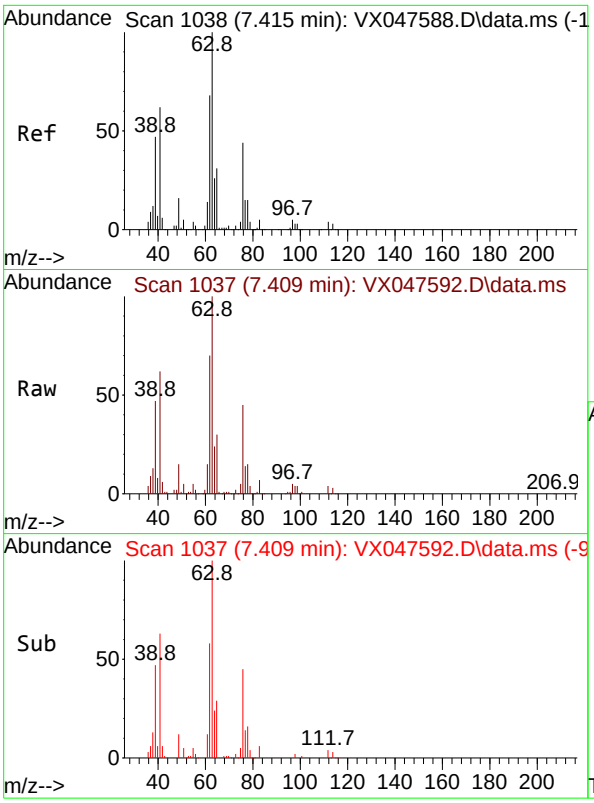


#44
Trichloroethene
Concen: 48.037 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:130 Resp: 114708

Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	210.8



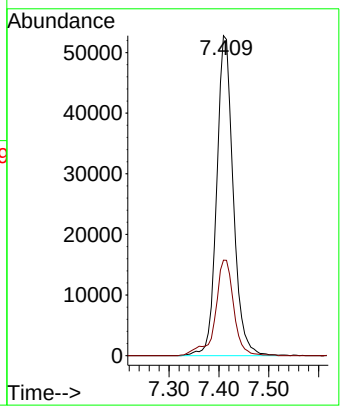


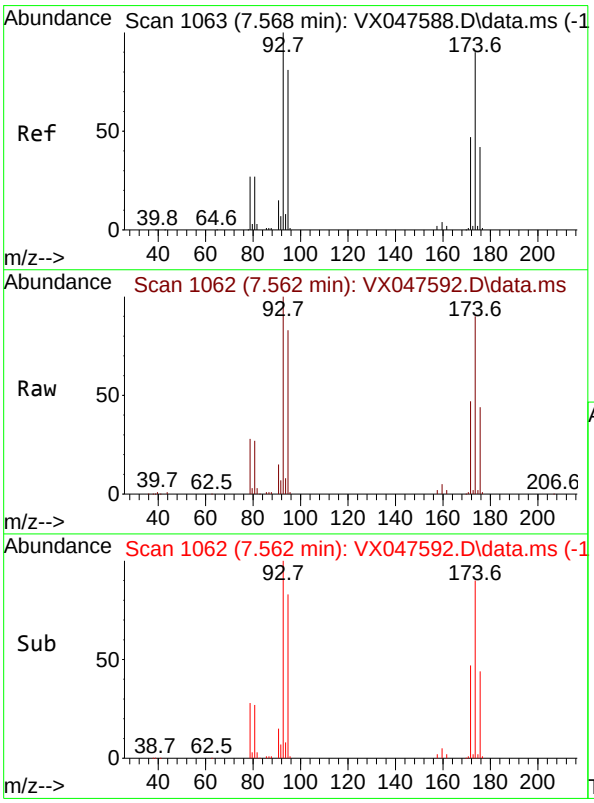
#45
1,2-Dichloropropane
Concen: 48.053 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 63 Resp: 121532

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.7	37.1

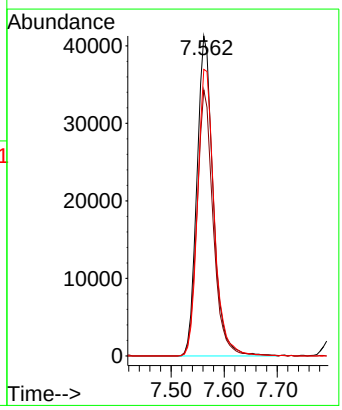


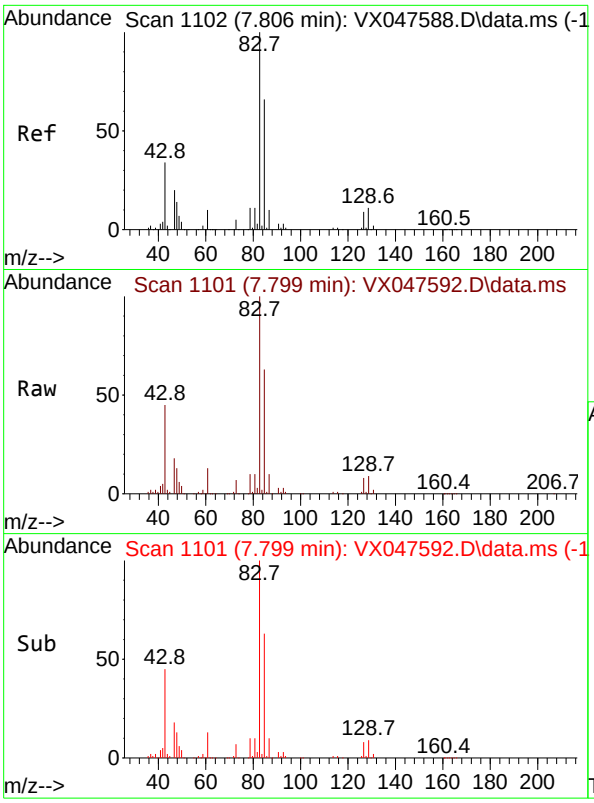


#46
Dibromomethane
Concen: 47.976 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 93 Resp: 88297

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	91.3	71.6	107.4



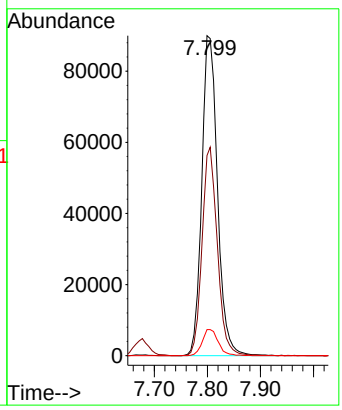


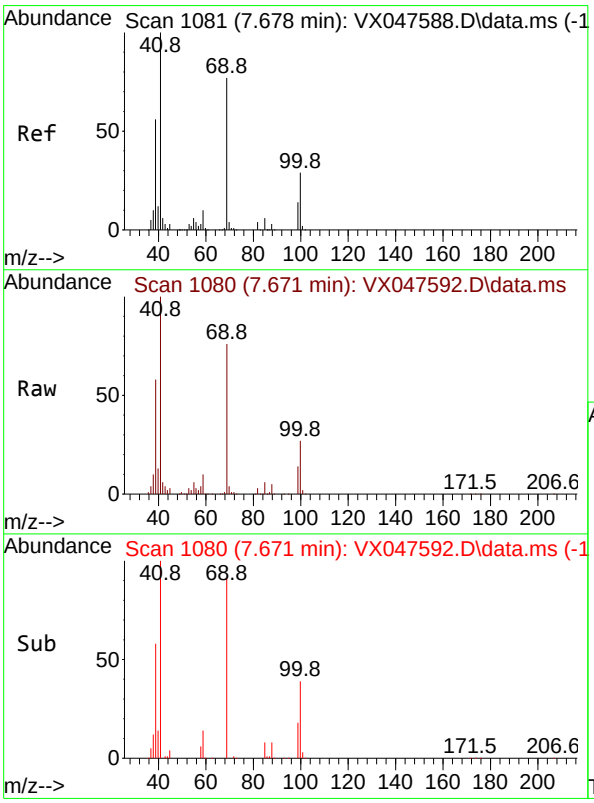
#47
Bromodichloromethane
Concen: 48.769 ug/l
RT: 7.799 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 83 Resp: 185219

Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.5	78.7
127	8.1	6.9	10.3

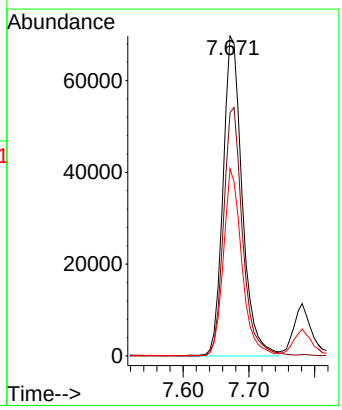


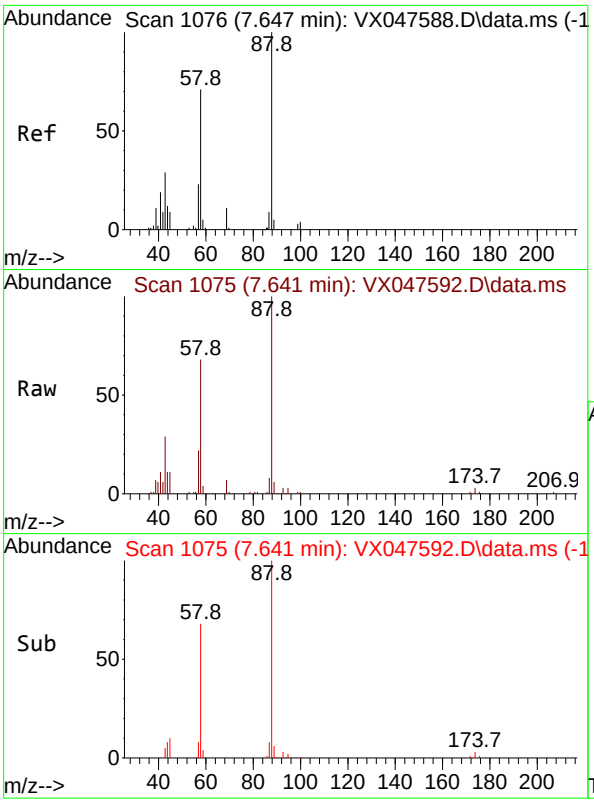


#48
Methyl methacrylate
Concen: 49.757 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 141532

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	56.4	45.8	68.6



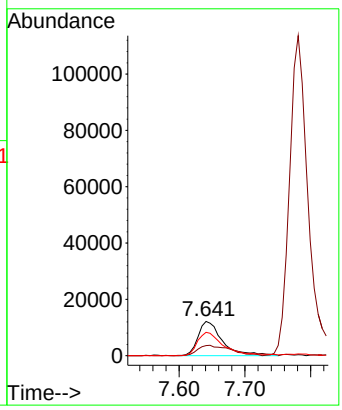


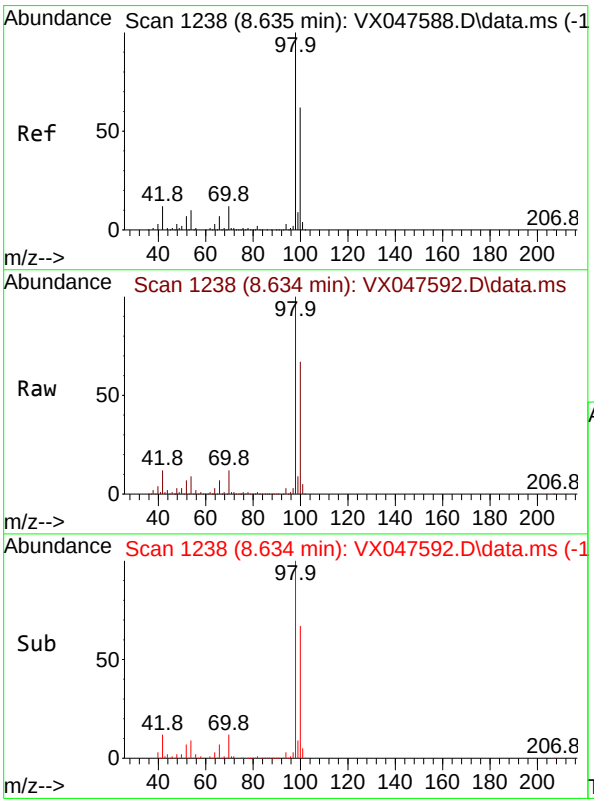
#49
1,4-Dioxane
Concen: 1089.520 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 88 Resp: 31320

Ion	Ratio	Lower	Upper
88	100		
43	40.9	30.2	45.2
58	74.1	59.5	89.3

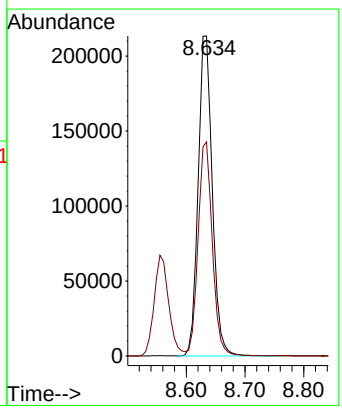


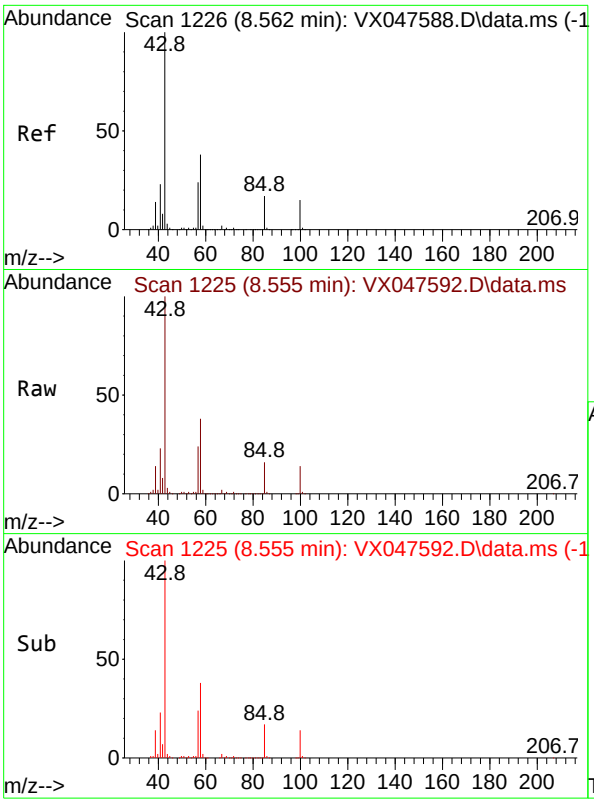


#50
Toluene-d8
Concen: 46.411 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 98 Resp: 357393

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4



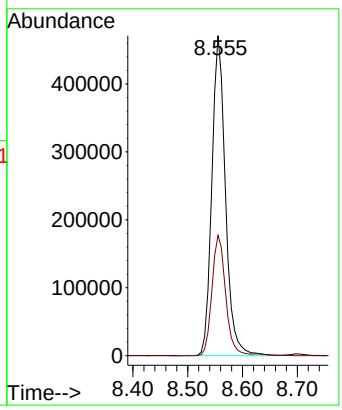


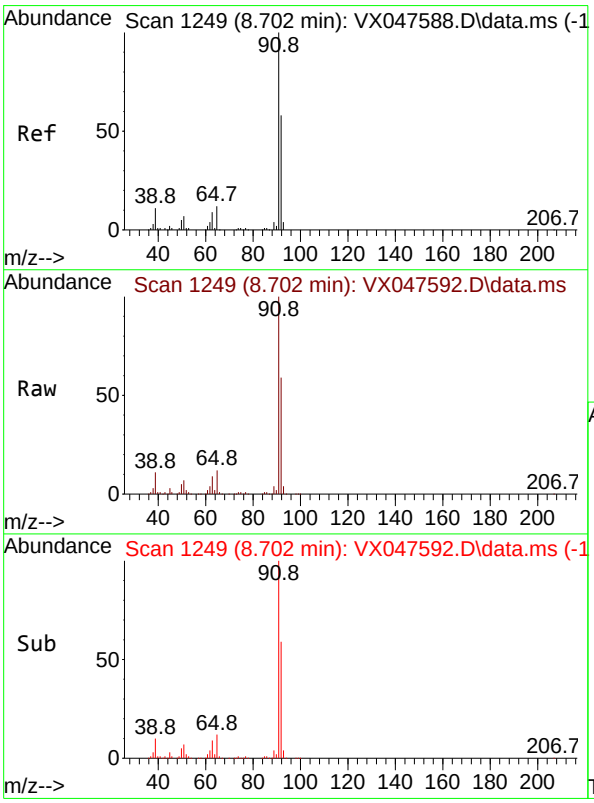
#51
4-Methyl-2-Pentanone
Concen: 255.752 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 809759

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

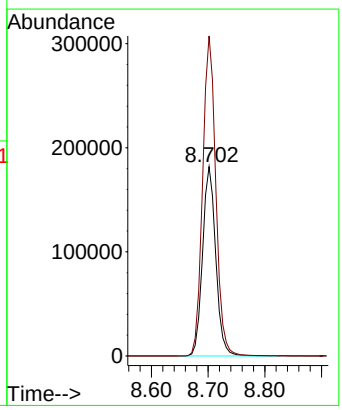


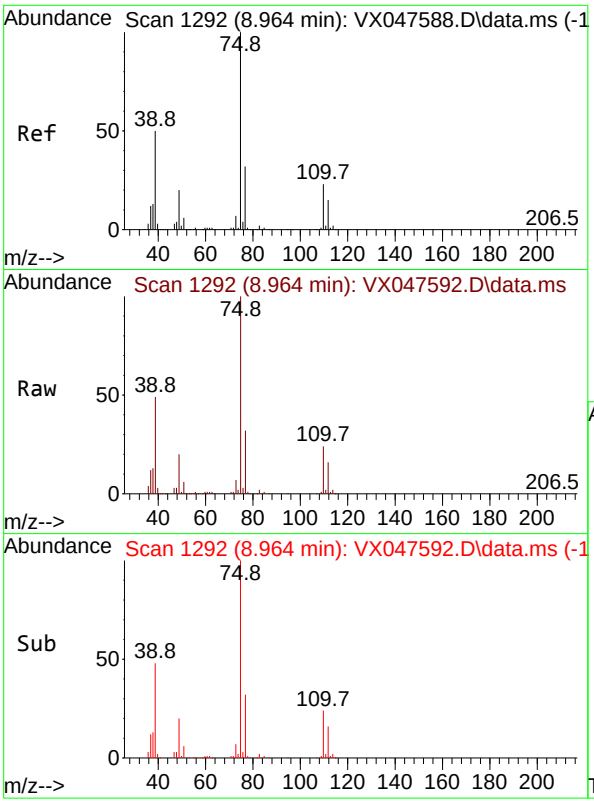


#52
Toluene
Concen: 48.130 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 92 Resp: 292879

Ion	Ratio	Lower	Upper
92	100		
91	169.4	137.1	205.7



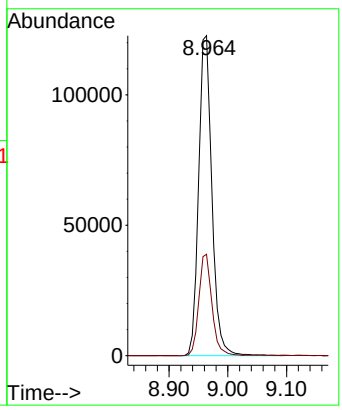


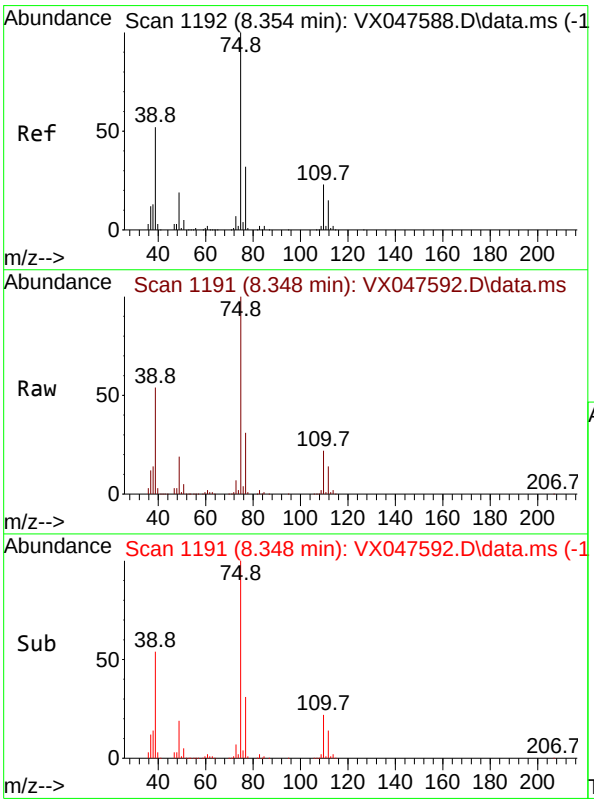
#53
t-1,3-Dichloropropene
Concen: 49.527 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 75 Resp: 191863

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2

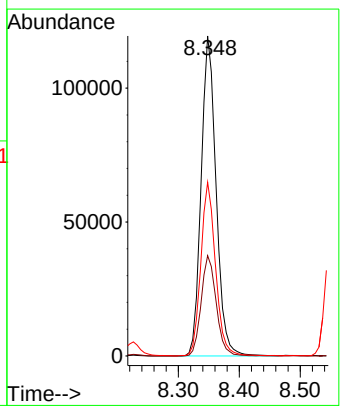


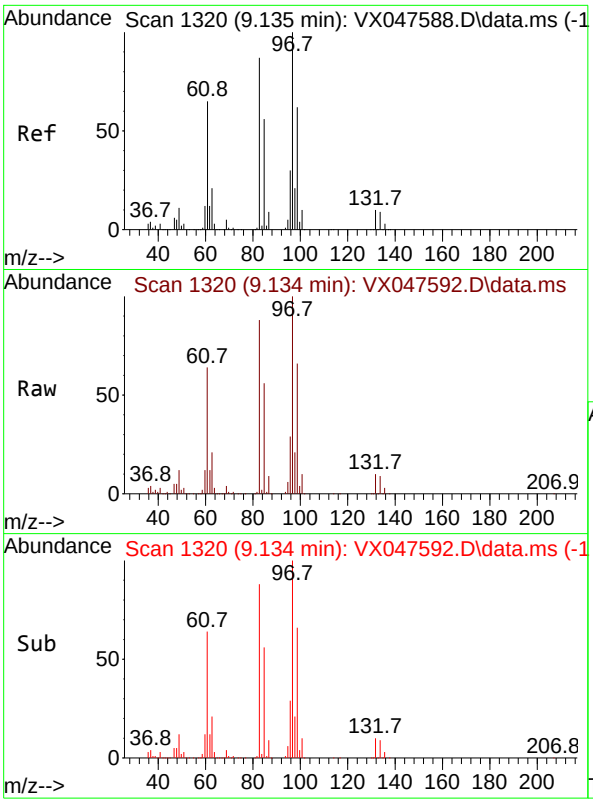


#54
cis-1,3-Dichloropropene
Concen: 49.257 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 203954

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.6
39	54.2	41.4	62.2



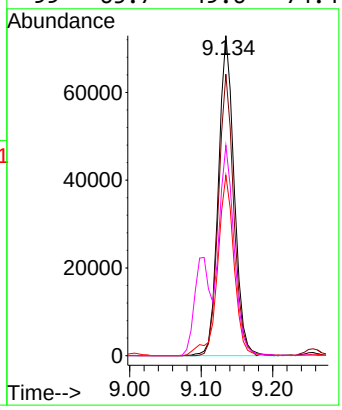


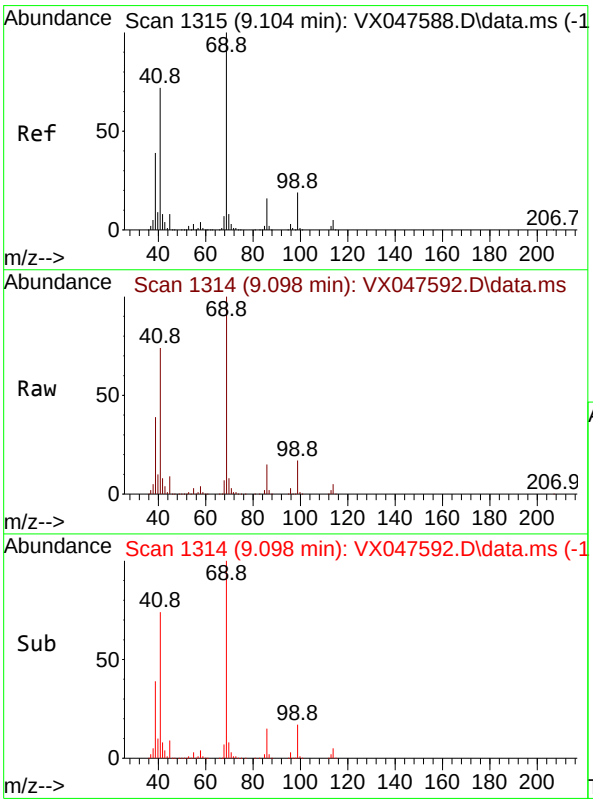
#55
1,1,2-Trichloroethane
Concen: 47.772 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 97 Resp: 112094

Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.6	104.4
85	56.4	45.0	67.6
99	65.7	49.6	74.4

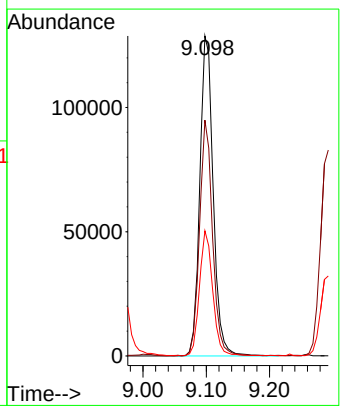


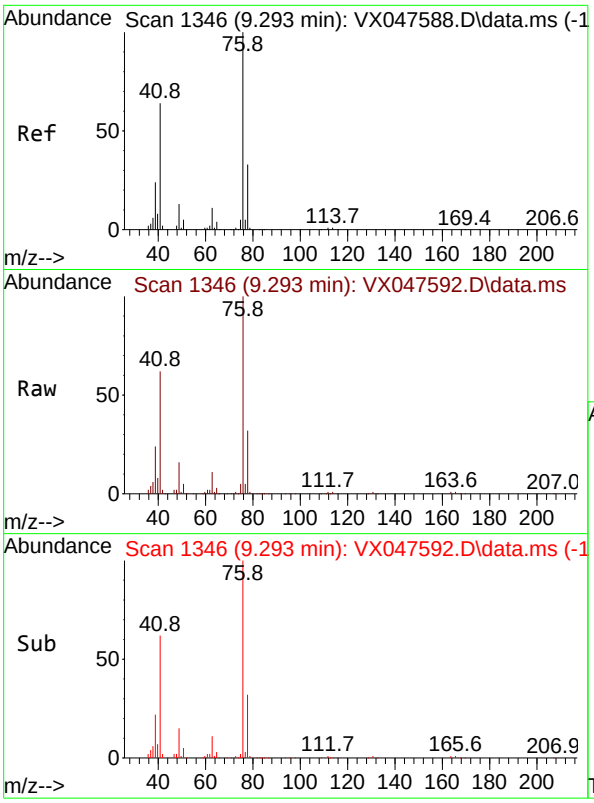


#56
Ethyl methacrylate
Concen: 51.490 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 69 Resp: 189741

Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3



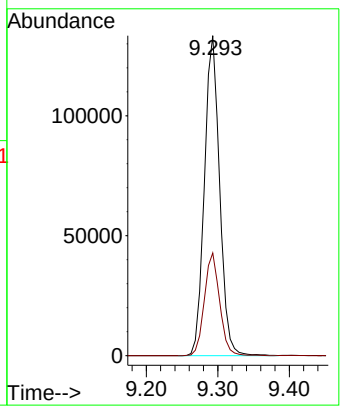


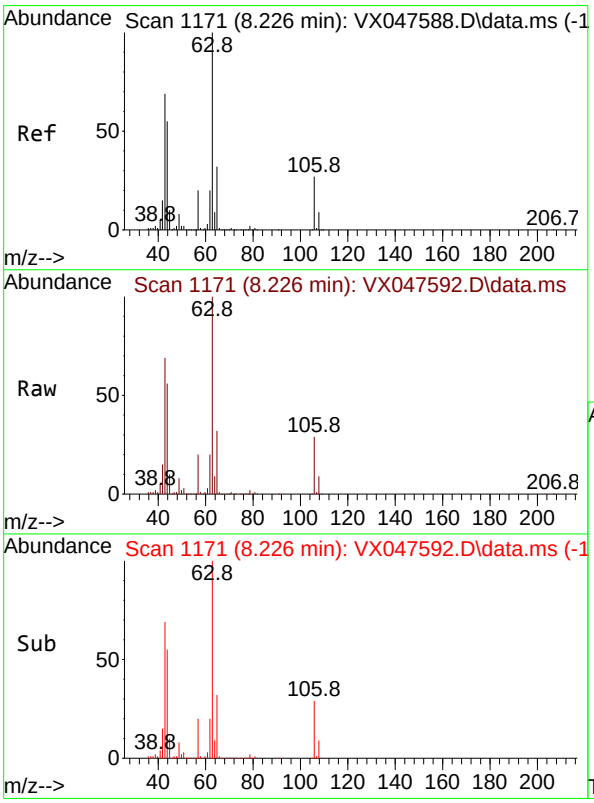
#57
1,3-Dichloropropane
Concen: 48.894 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 76 Resp: 197079

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4

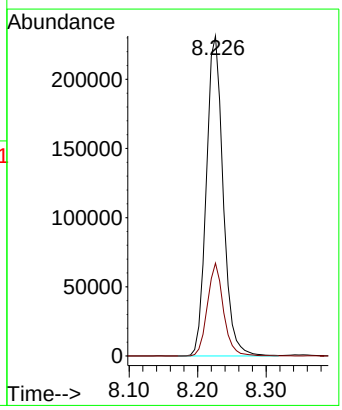


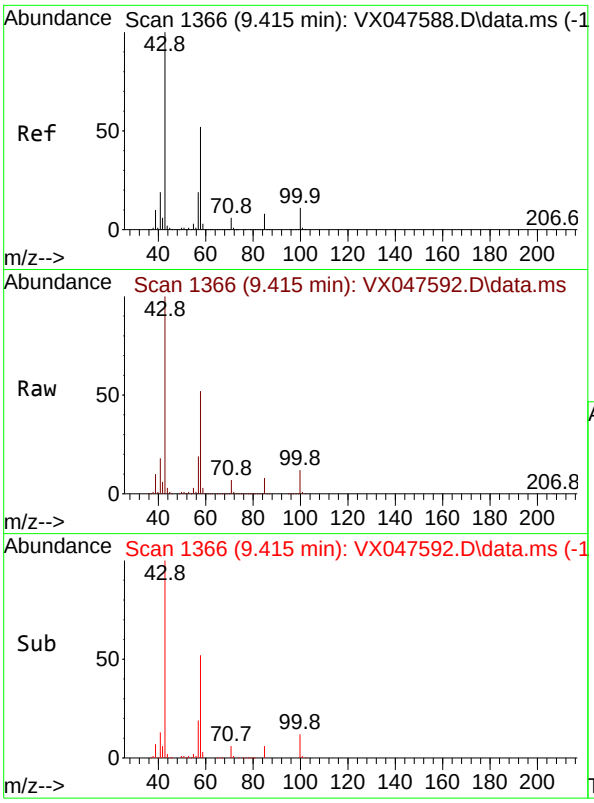


#58
2-Chloroethyl Vinyl ether
Concen: 225.562 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 394205

Ion	Ratio	Lower	Upper
63	100		
106	27.8	21.9	32.9



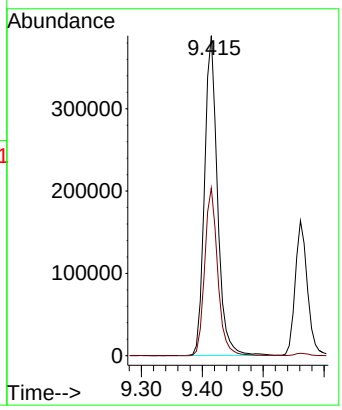


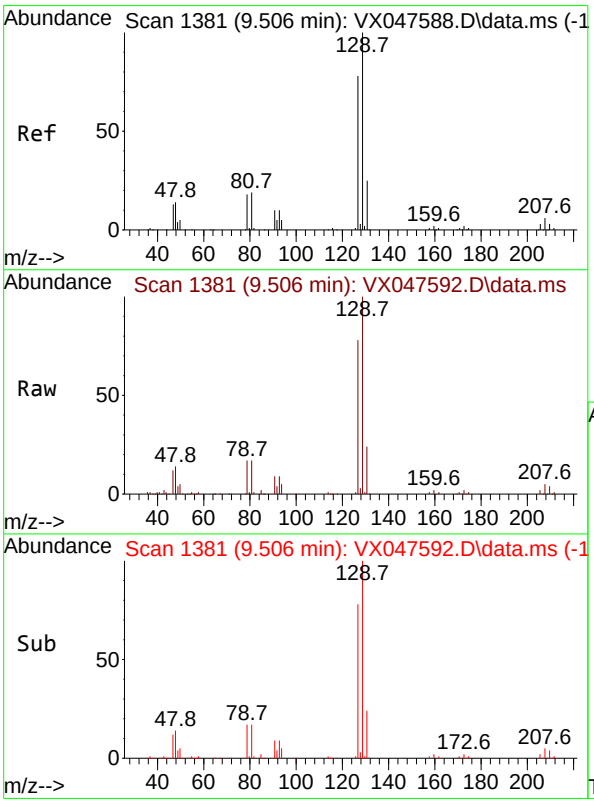
#59
2-Hexanone
Concen: 253.126 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 575599

Ion	Ratio	Lower	Upper
43	100		
58	52.6	26.1	78.2

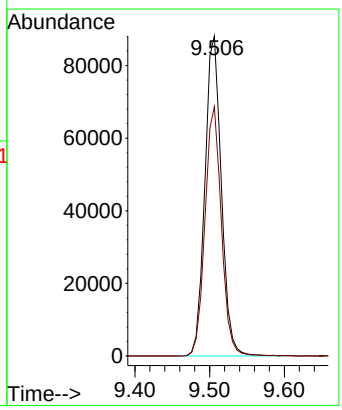


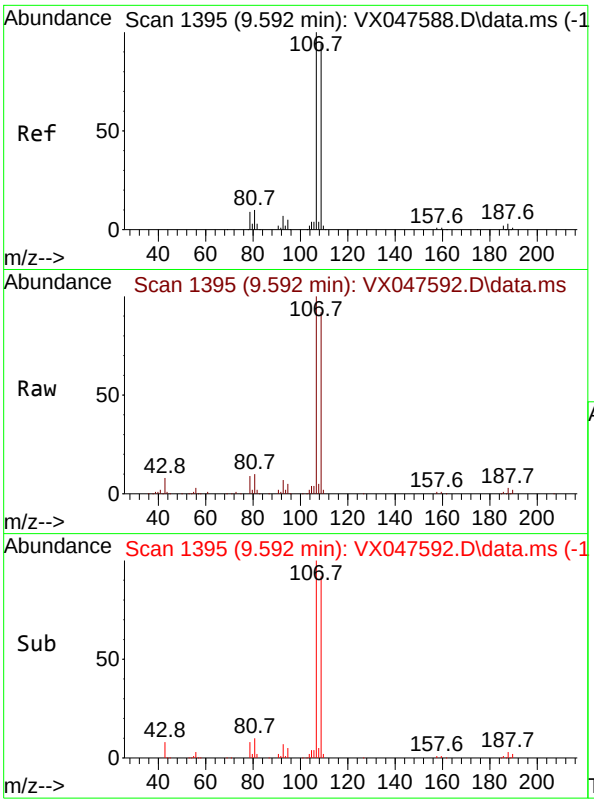


#60
Dibromochloromethane
Concen: 49.824 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:129 Resp: 134704

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.4	115.2



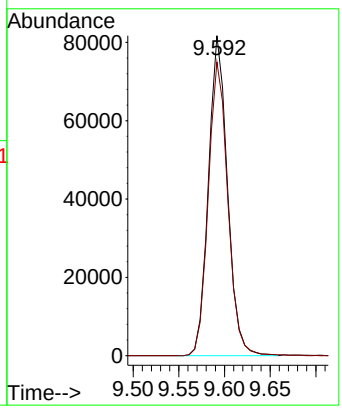


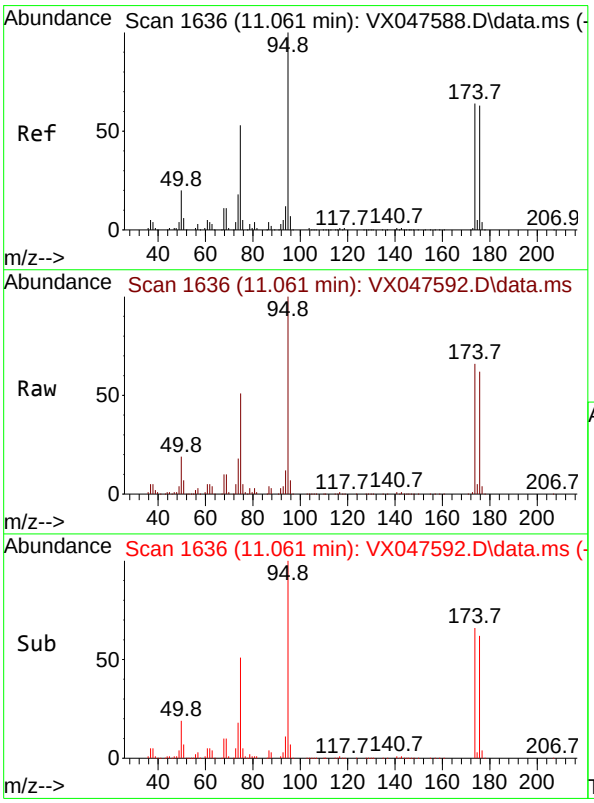
#61
1,2-Dibromoethane
Concen: 49.297 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:107 Resp: 117817

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.3	112.9

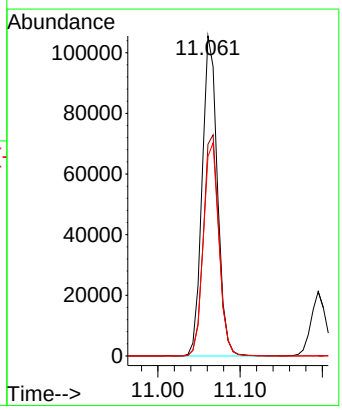


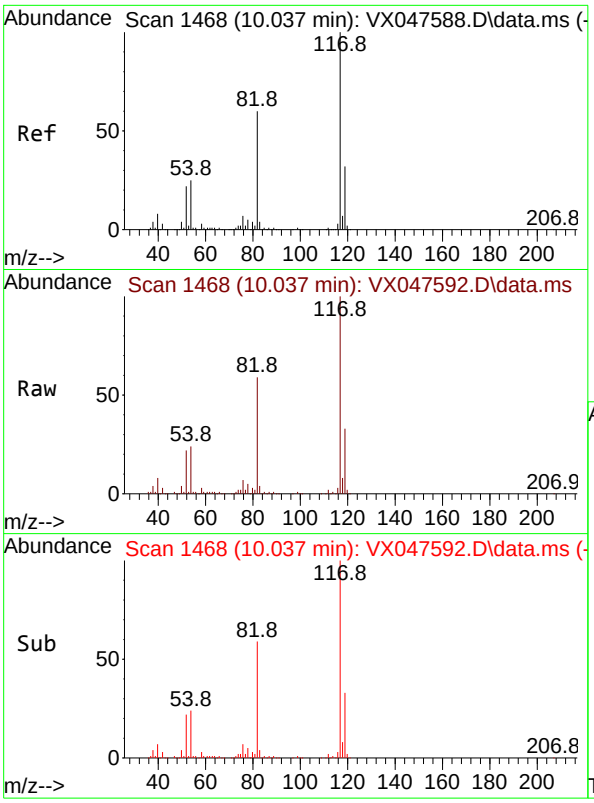


#62
4-Bromofluorobenzene
Concen: 46.520 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 95 Resp: 135957

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	141.6
176	68.0	0.0	138.4



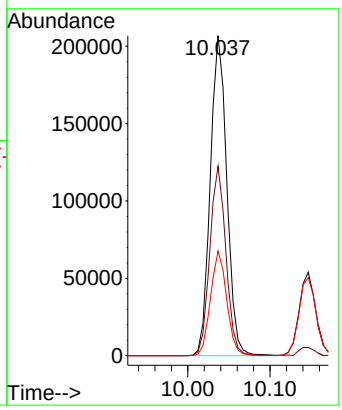


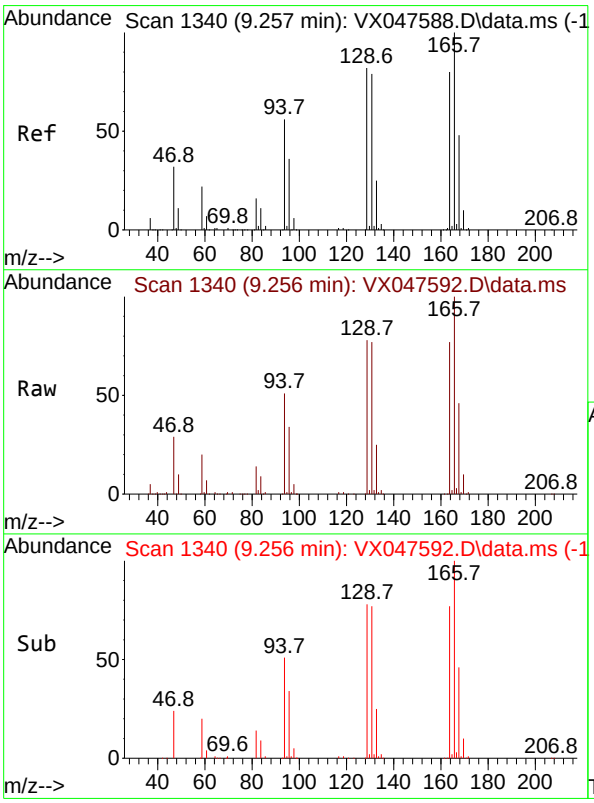
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:117 Resp: 288660

Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.8	71.6
119	32.7	25.2	37.8

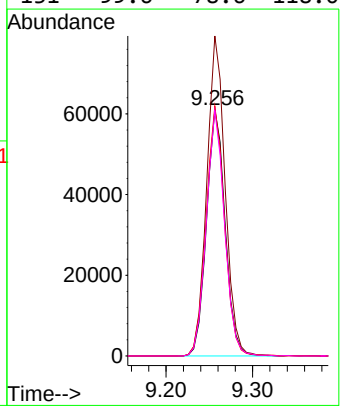


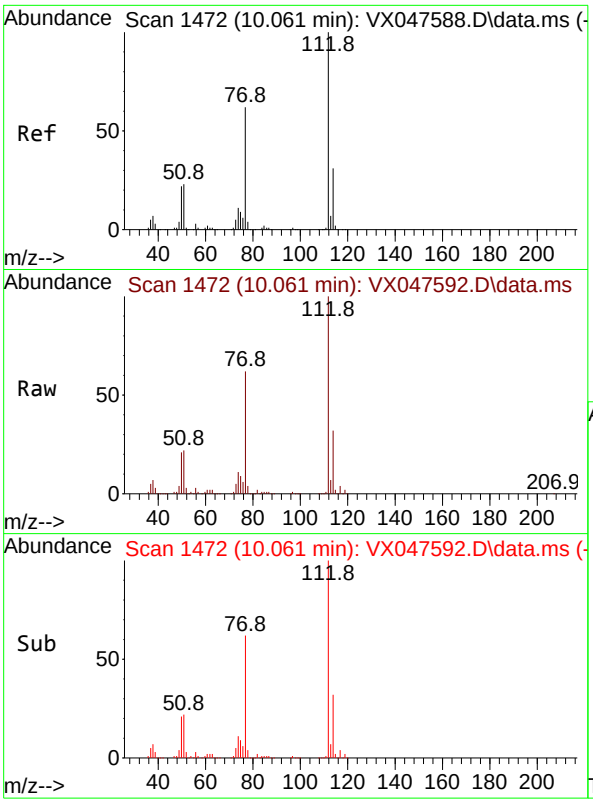


#64
Tetrachloroethene
Concen: 48.296 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:164 Resp: 90881

Ion	Ratio	Lower	Upper
164	100		
166	129.8	100.2	150.2
129	101.3	81.8	122.6
131	99.6	78.6	118.0



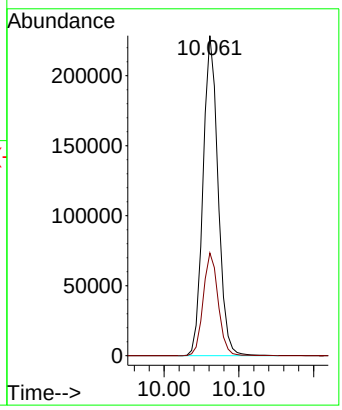


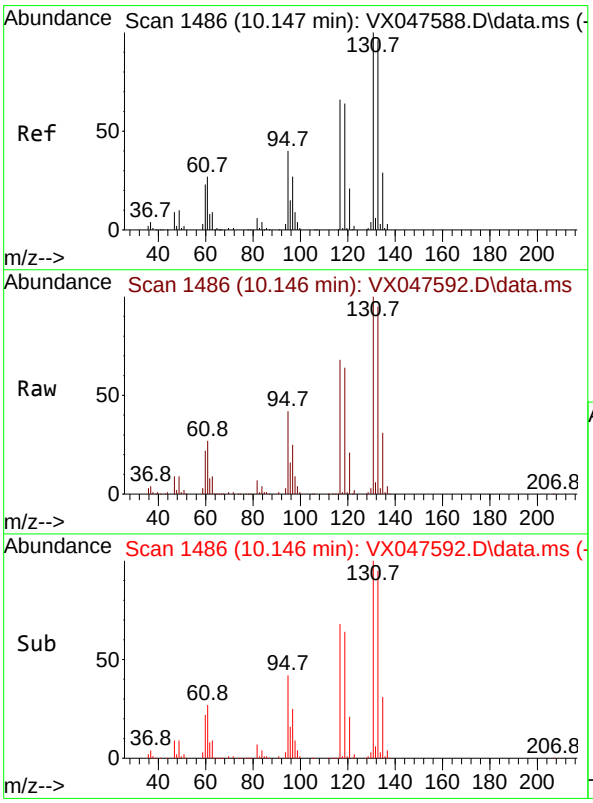
#65
Chlorobenzene
Concen: 48.549 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:112 Resp: 318372

Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.1	37.7

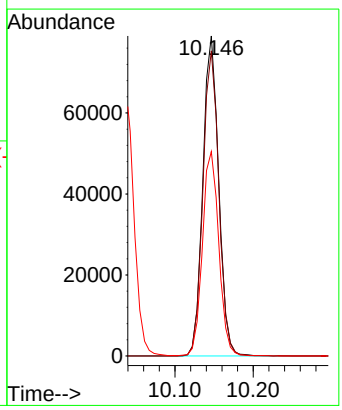


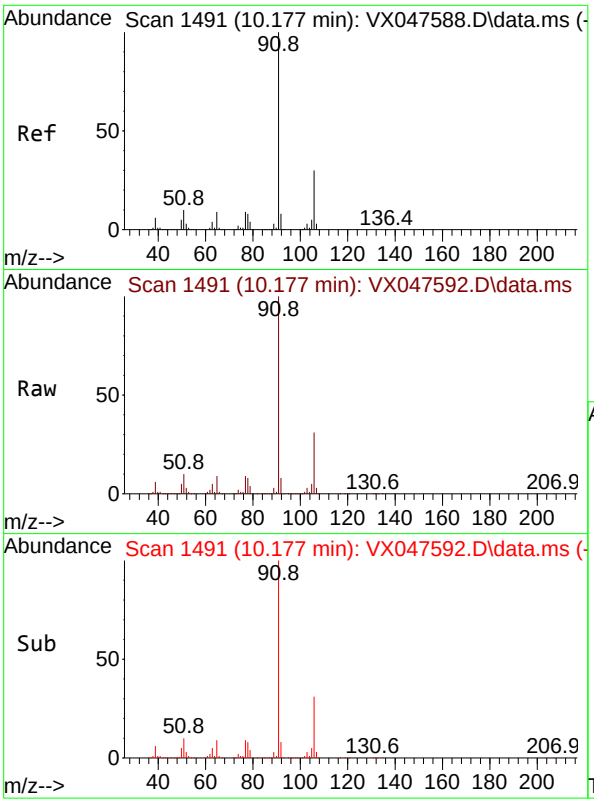


#66
1,1,1,2-Tetrachloroethane
Concen: 48.794 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:131 Resp: 110416

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	66.3	32.0	96.0



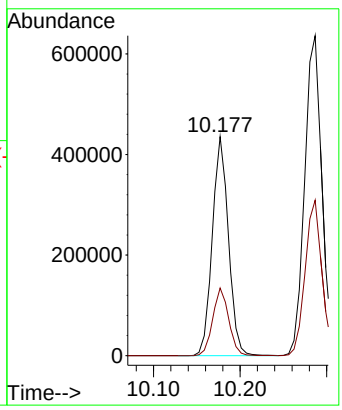


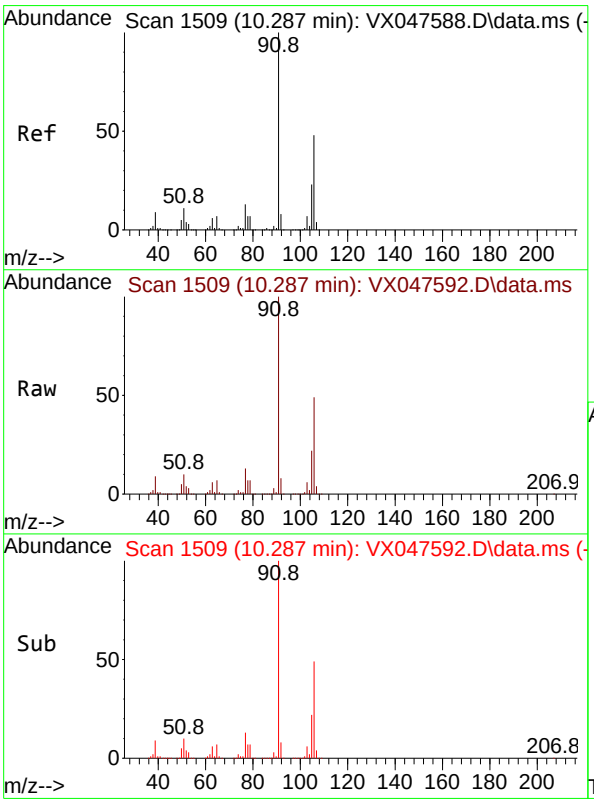
#67
Ethyl Benzene
Concen: 49.813 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 91 Resp: 563634

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.3	36.5

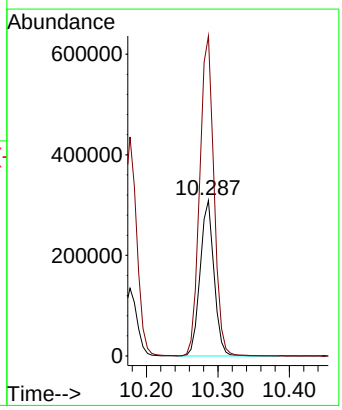


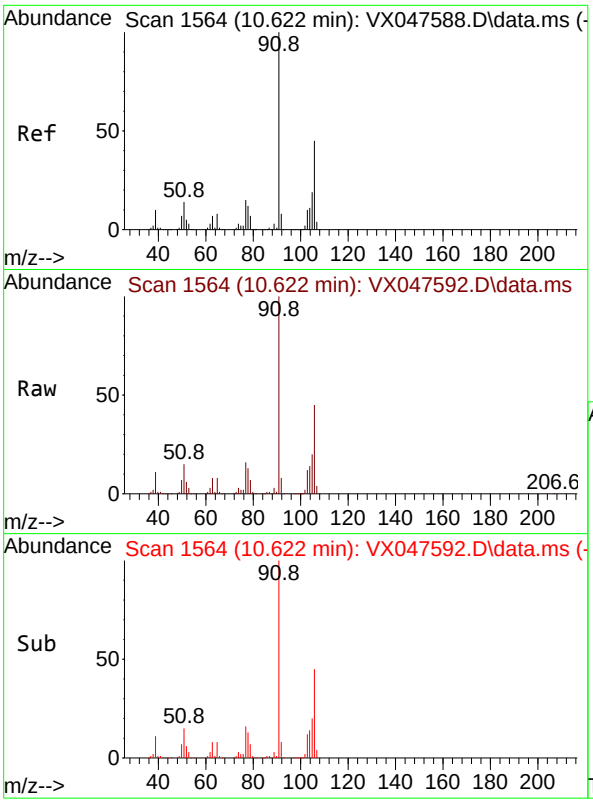


#68
m/p-Xylenes
Concen: 98.956 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:106 Resp: 416757

Ion	Ratio	Lower	Upper
106	100		
91	211.1	167.8	251.8



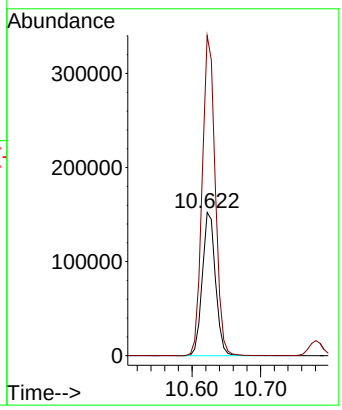


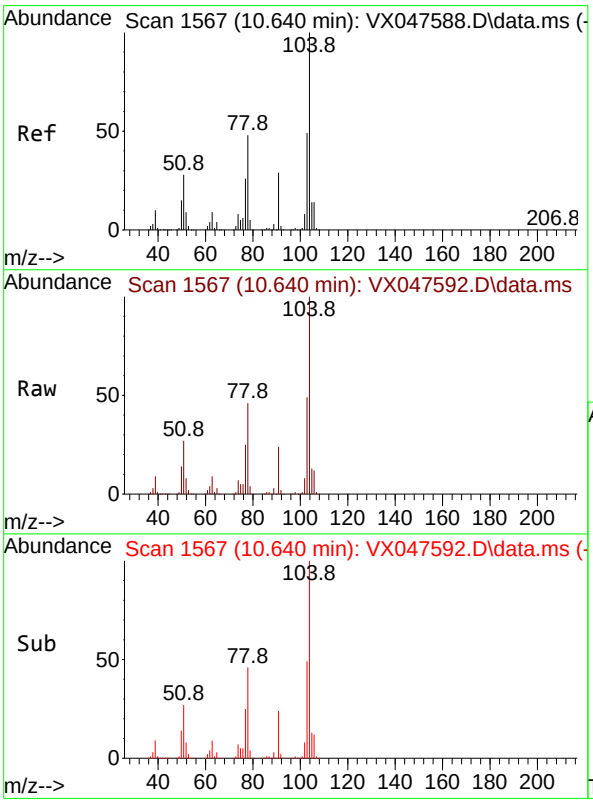
#69
o-Xylene
Concen: 50.159 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:106 Resp: 204323

Ion	Ratio	Lower	Upper
106	100		
91	221.0	111.1	333.4

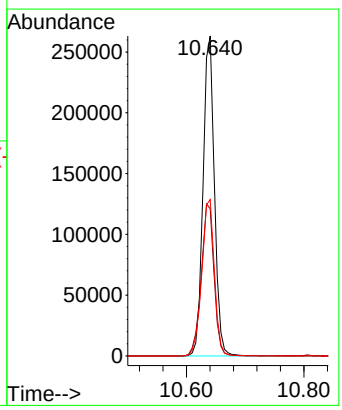


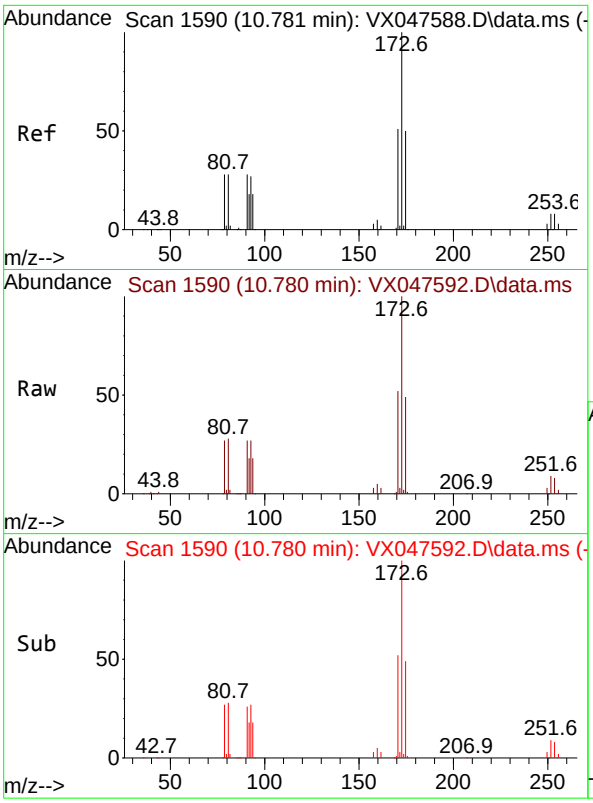


#70
Styrene
Concen: 49.536 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:104 Resp: 353567

Ion	Ratio	Lower	Upper
104	100		
78	53.4	43.1	64.7
103	54.3	43.1	64.7



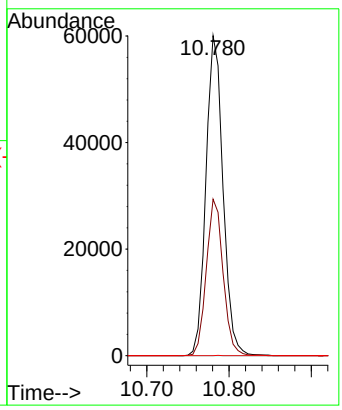


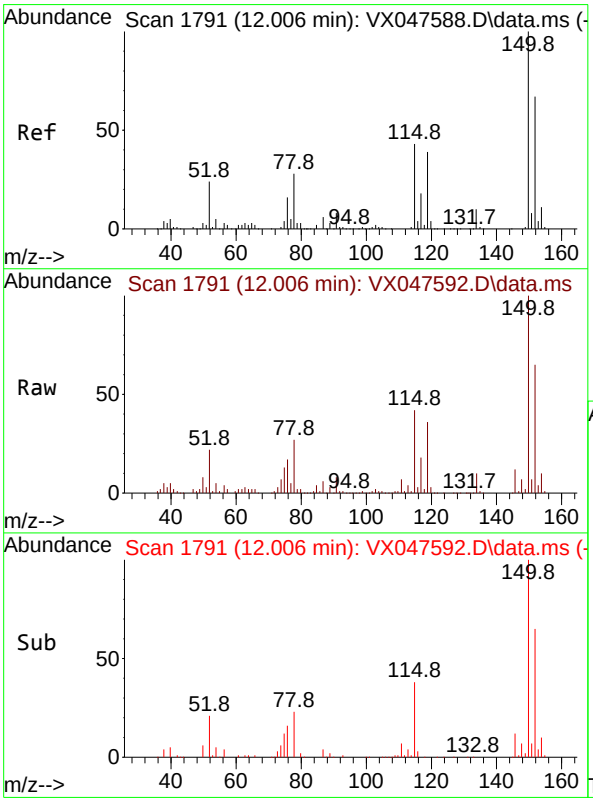
#71
Bromoform
Concen: 51.207 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:173 Resp: 86524

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.9	74.6
254	0.0	0.1	0.1#

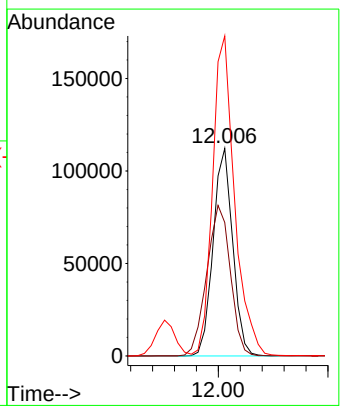


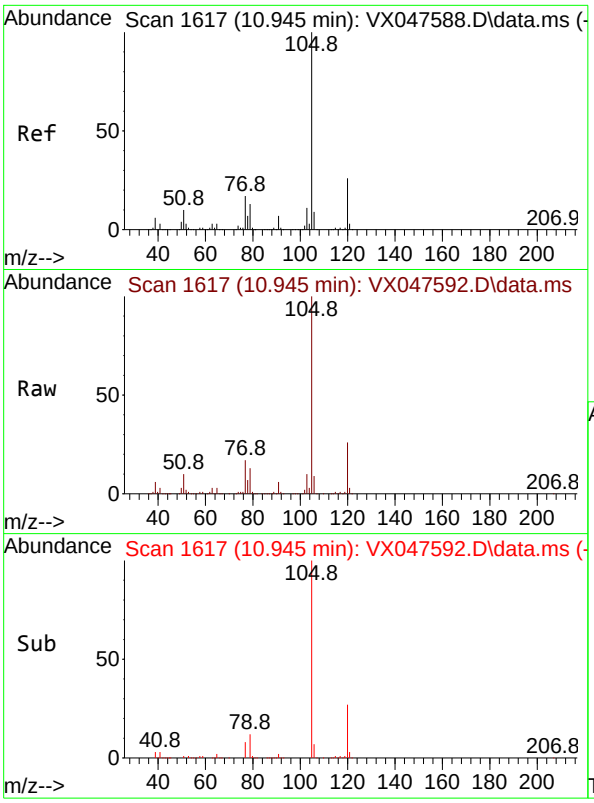


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:152 Resp: 139252

Ion	Ratio	Lower	Upper
152	100		
115	87.5	44.9	134.5
150	173.5	0.0	352.0



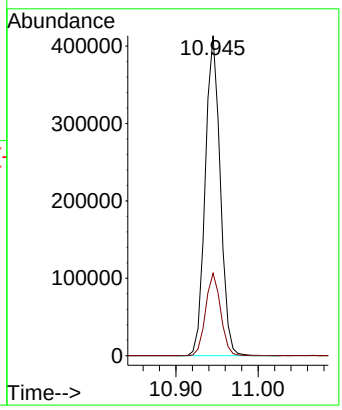


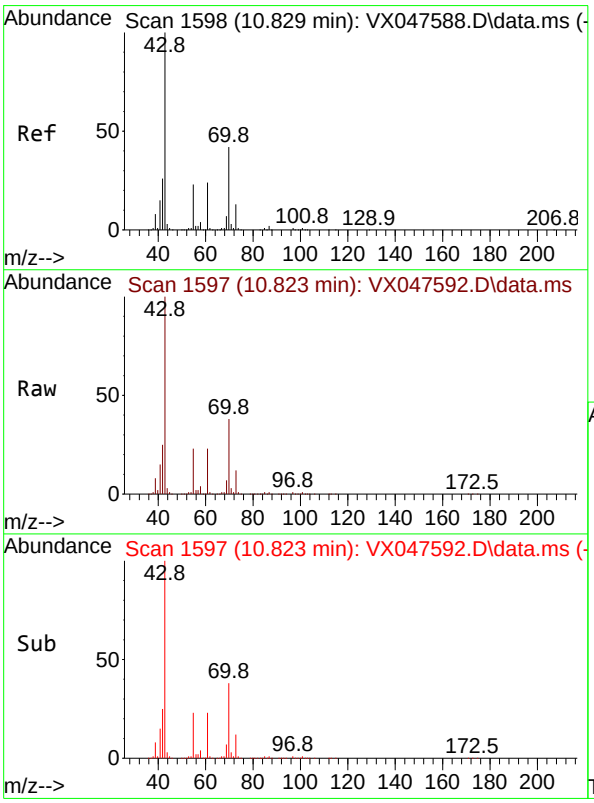
#73
Isopropylbenzene
Concen: 49.479 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:105 Resp: 523826

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

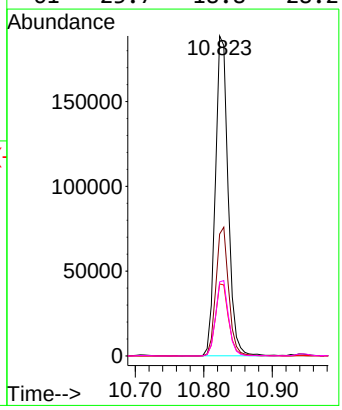


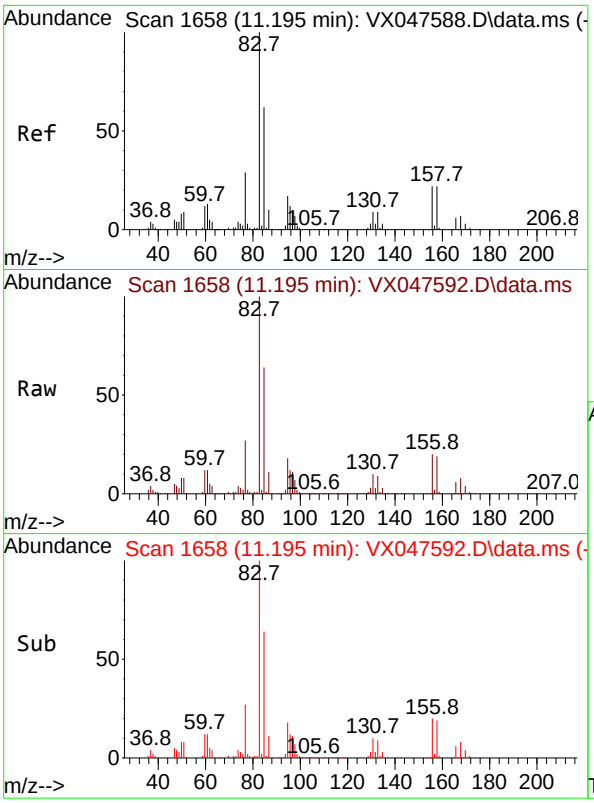


#74
N-amyl acetate
Concen: 50.375 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 243198

Ion	Ratio	Lower	Upper
43	100		
70	40.2	32.0	48.0
55	23.2	18.9	28.3
61	23.7	18.8	28.2



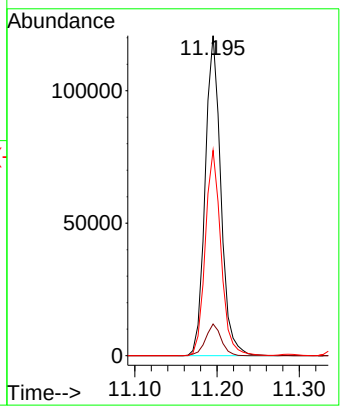


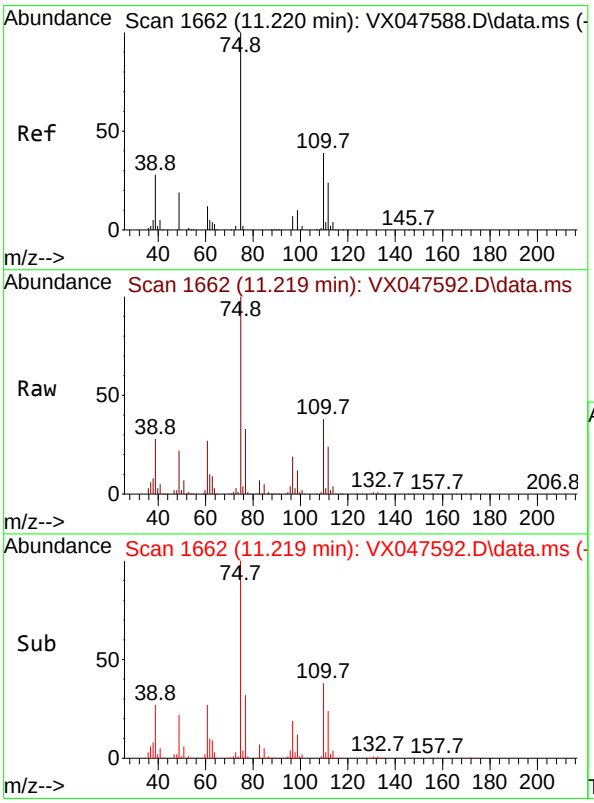
#75
1,1,2,2-Tetrachloroethane
Concen: 49.851 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 83 Resp: 159676

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.2	31.6	95.0

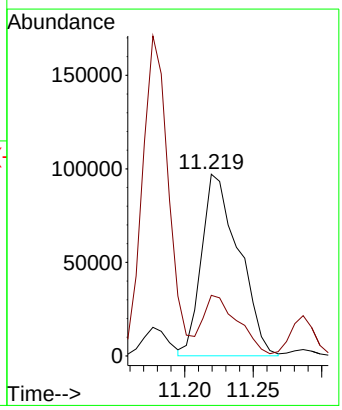


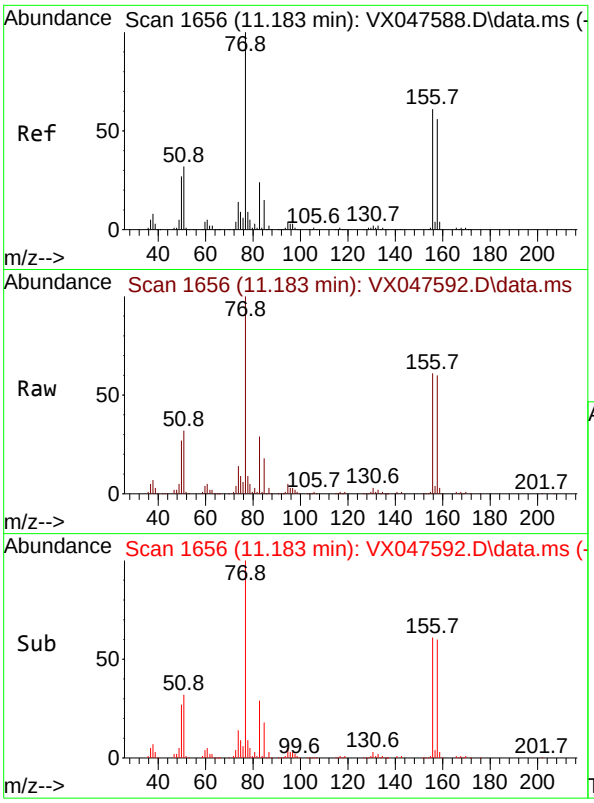


#76
1,2,3-Trichloropropane
Concen: 65.262 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 184000

Ion	Ratio	Lower	Upper
75	100		
77	30.9	18.8	56.4



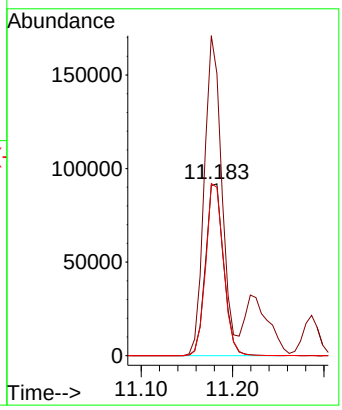


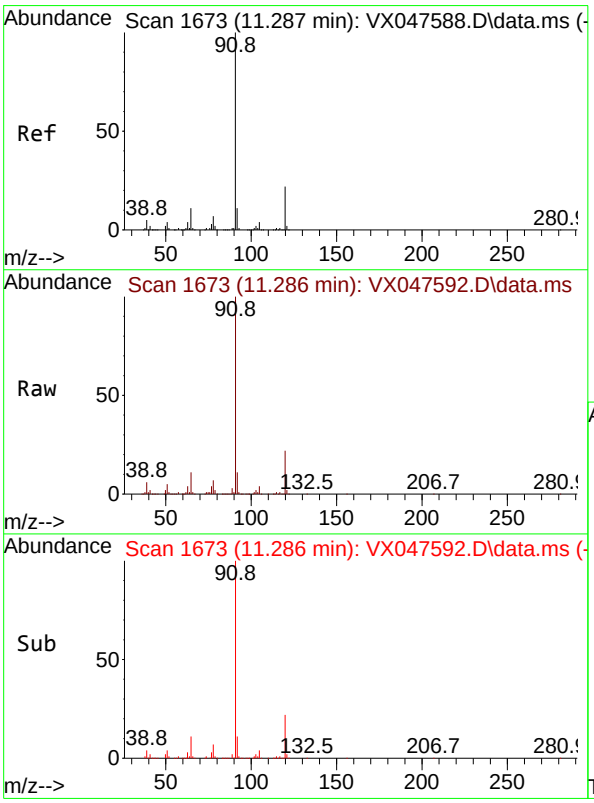
#77
Bromobenzene
Concen: 48.173 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:156 Resp: 125610

Ion	Ratio	Lower	Upper
156	100		
77	182.2	89.7	269.1
158	99.0	47.9	143.6

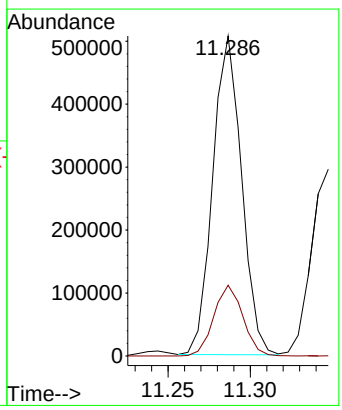


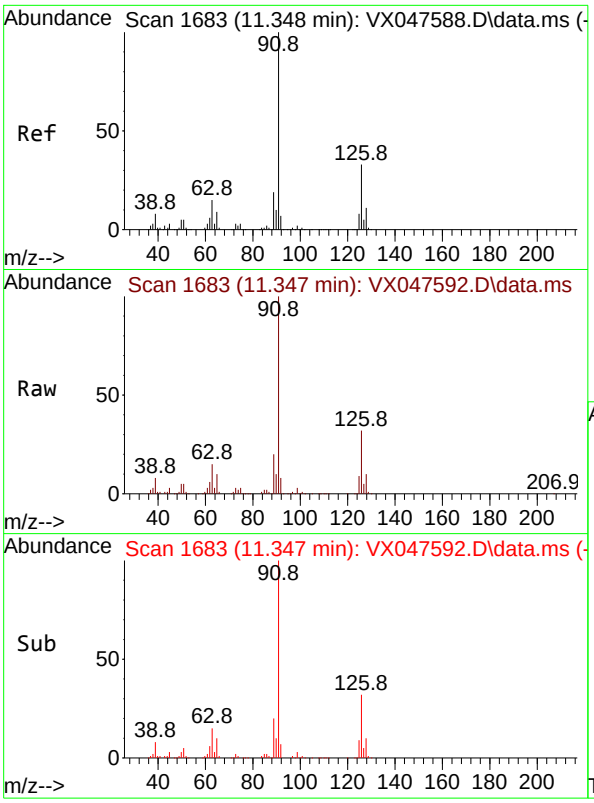


#78
n-propylbenzene
Concen: 49.295 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 616928

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



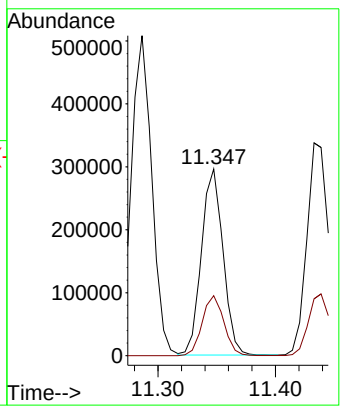


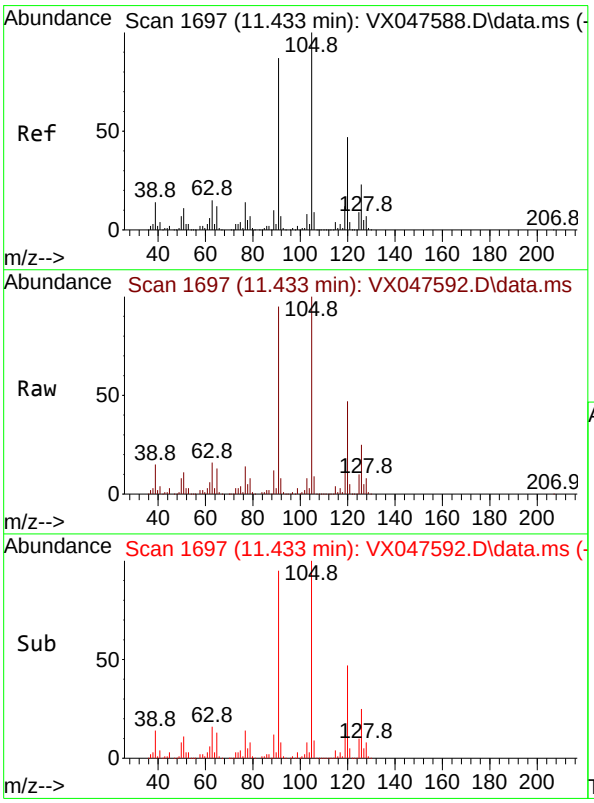
#79
2-Chlorotoluene
Concen: 49.117 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 91 Resp: 376486

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3

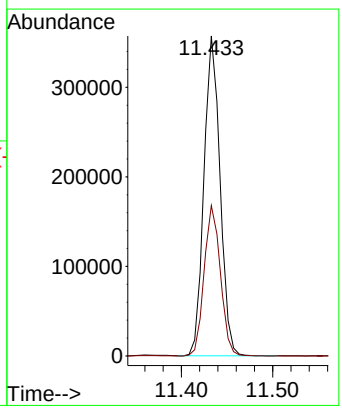


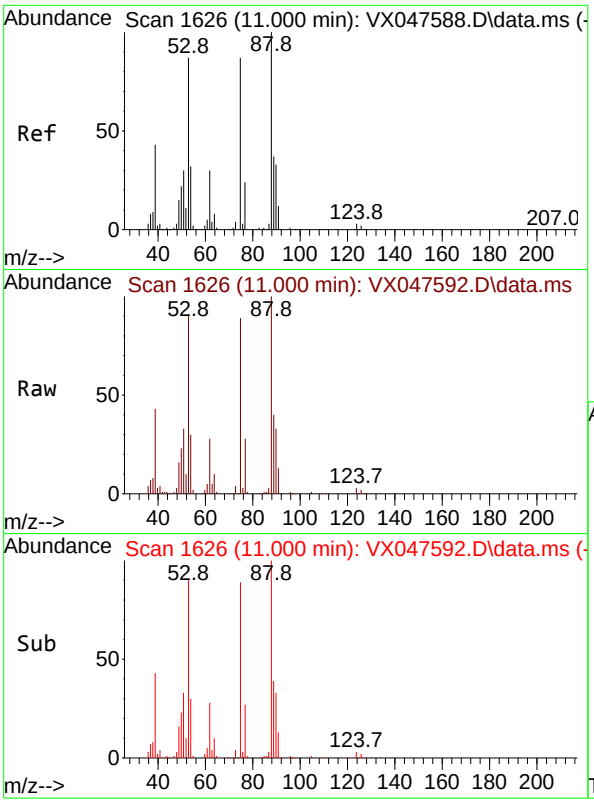


#80
1,3,5-Trimethylbenzene
Concen: 50.055 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 435375

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.6	70.8



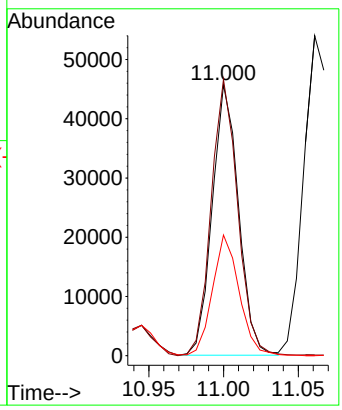


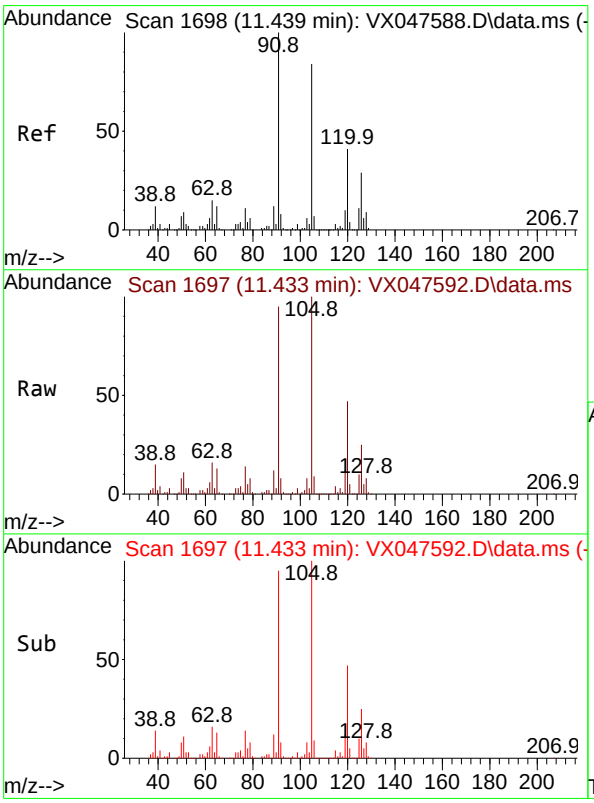
#81
trans-1,4-Dichloro-2-butene
Concen: 50.543 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 75 Resp: 55880

Ion	Ratio	Lower	Upper
75	100		
53	103.4	83.4	125.2
89	45.4	36.3	54.5

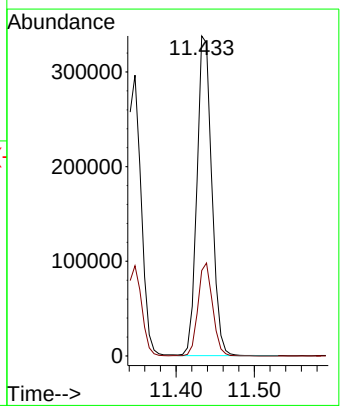


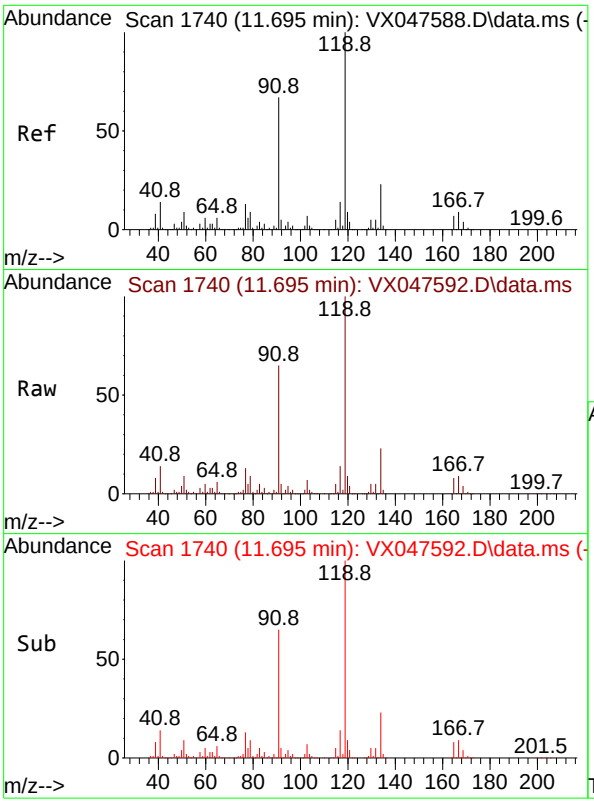


#82
4-Chlorotoluene
Concen: 49.164 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 445075

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6



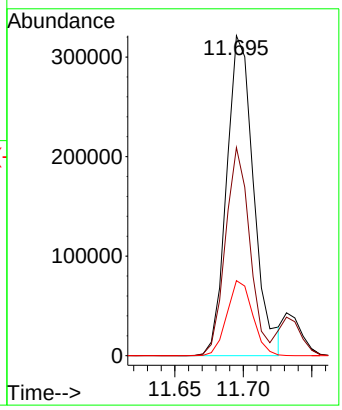


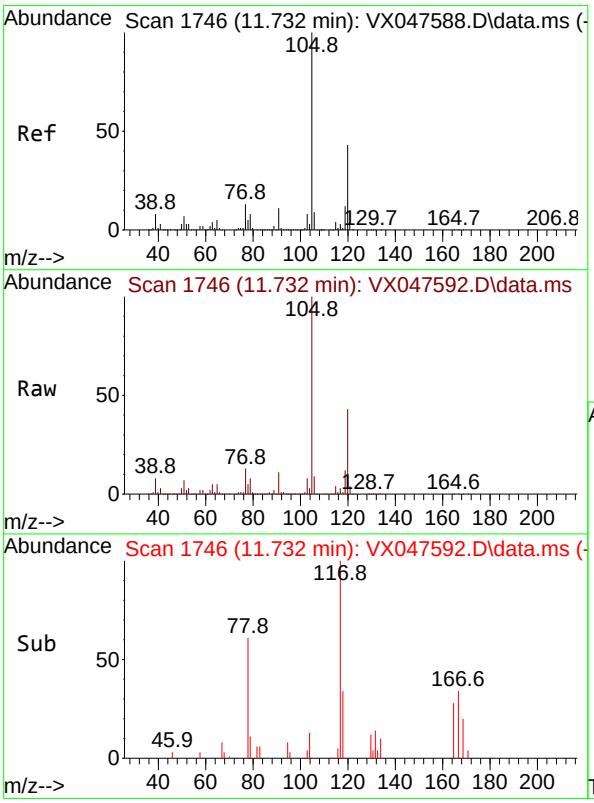
#83
tert-Butylbenzene
Concen: 49.679 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:119 Resp: 442341

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0

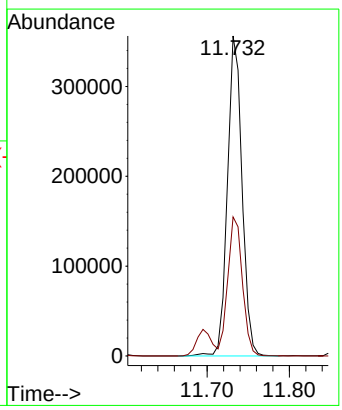


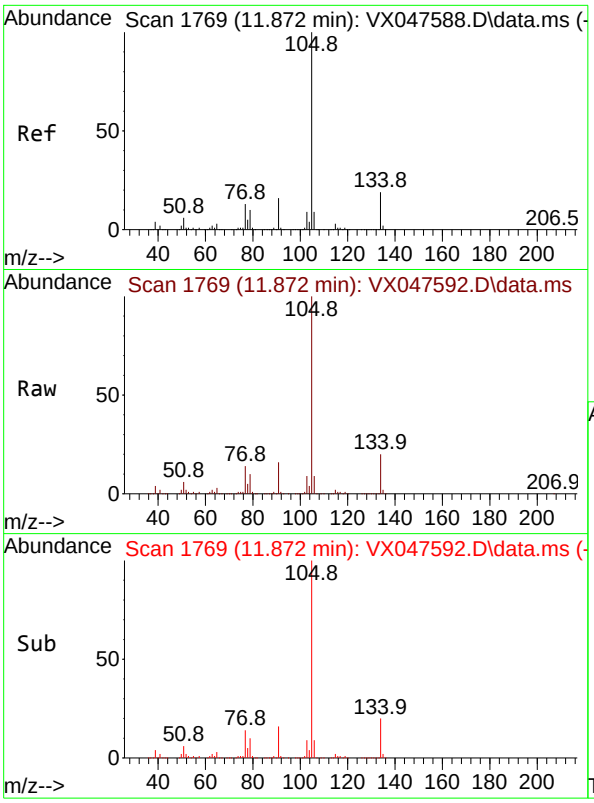


#84
1,2,4-Trimethylbenzene
Concen: 49.911 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 440134

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.1



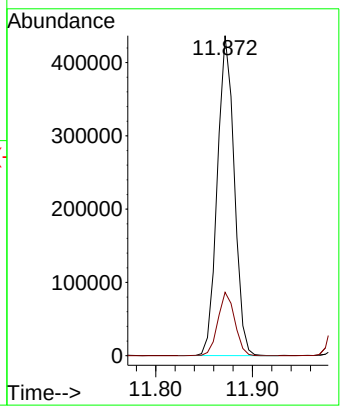


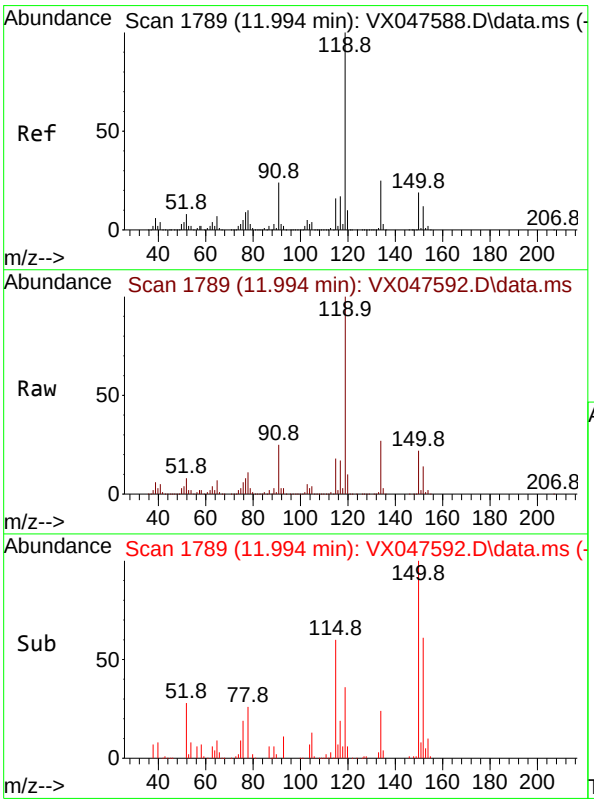
#85
sec-Butylbenzene
Concen: 50.100 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:105 Resp: 529869

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

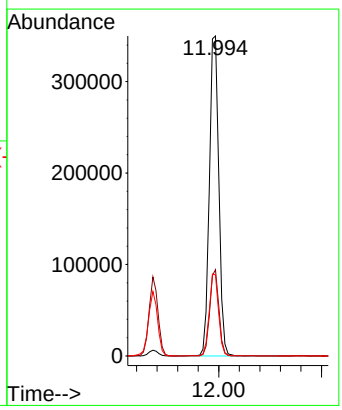


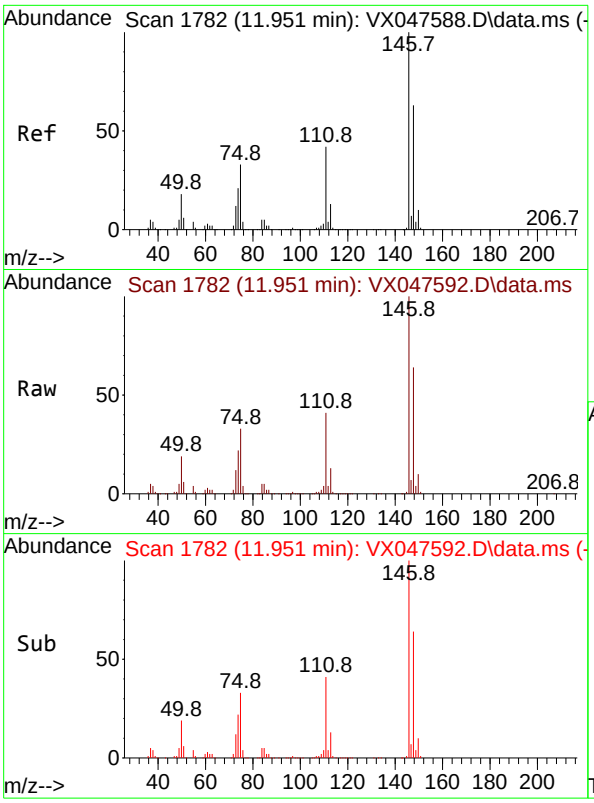


#86
p-Isopropyltoluene
Concen: 49.861 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:119 Resp: 446441

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.4	12.6	37.6



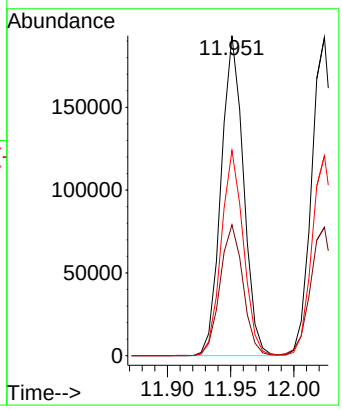


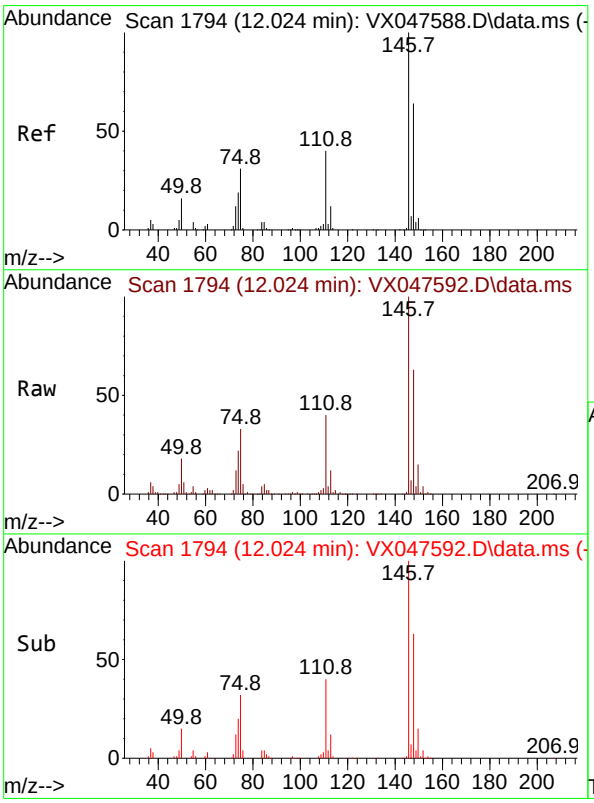
#87
1,3-Dichlorobenzene
Concen: 49.014 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:146 Resp: 237383

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.5	64.5
148	63.5	32.0	96.0

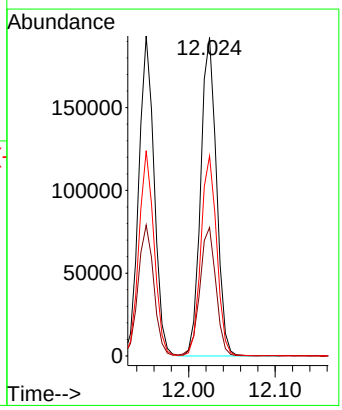


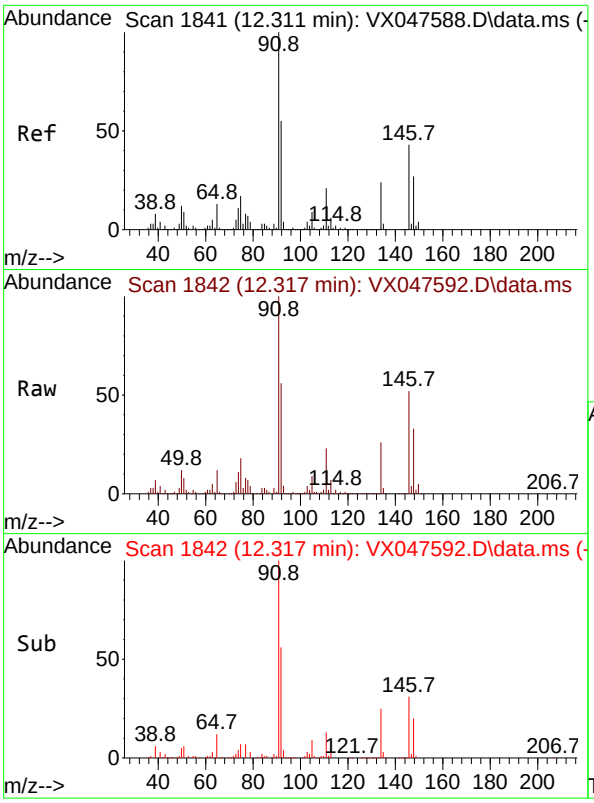


#88
1,4-Dichlorobenzene
Concen: 49.011 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 243618

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	62.7	31.7	95.1



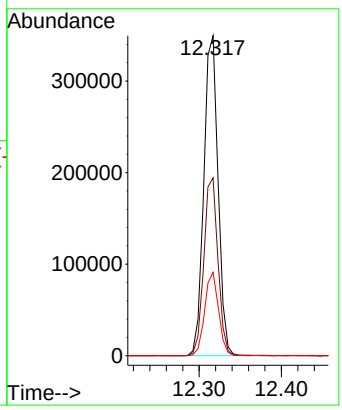


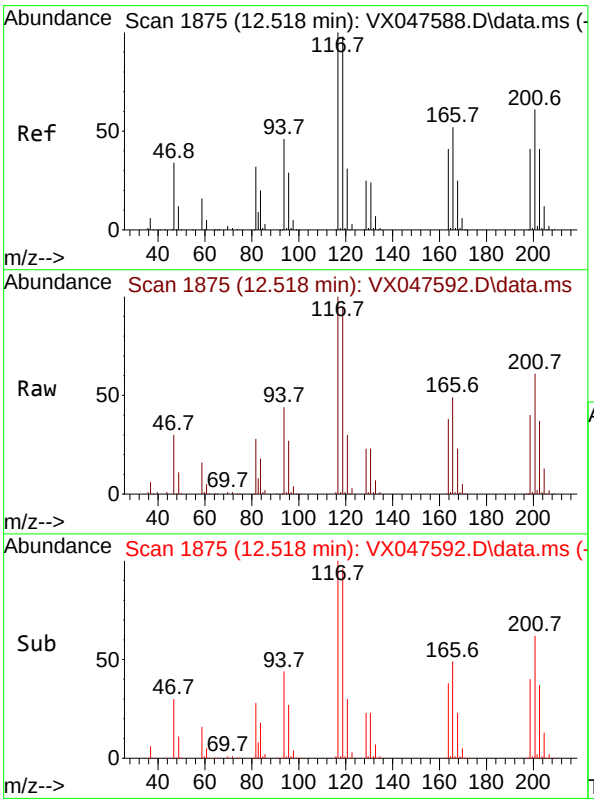
#89
n-Butylbenzene
Concen: 50.752 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 91 Resp: 420478

Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.3	12.6	37.8

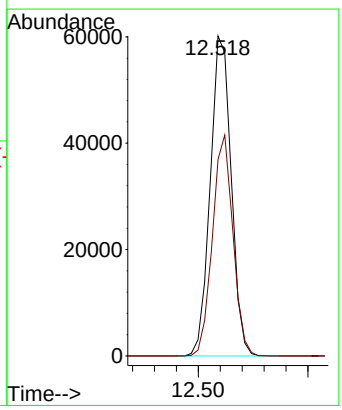


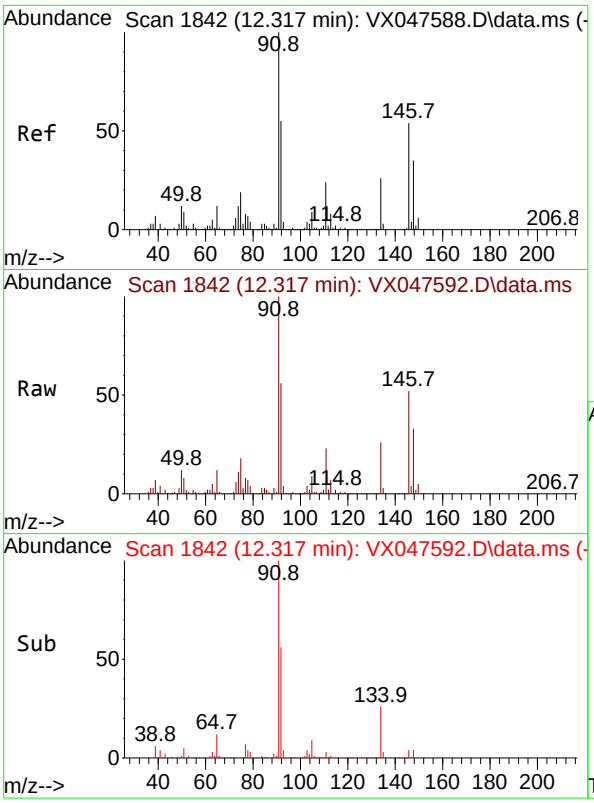


#90
Hexachloroethane
Concen: 50.732 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 79751

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.2	102.5



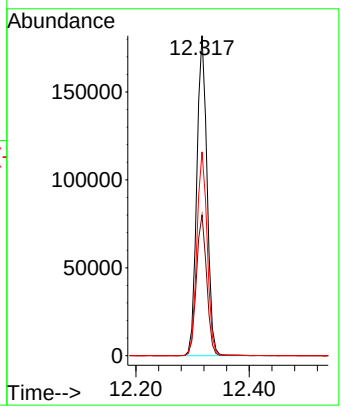


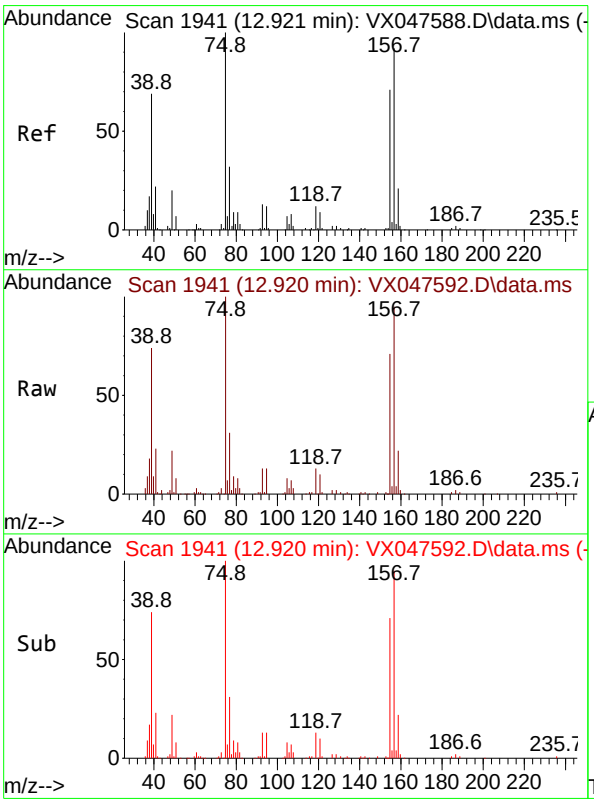
#91
1,2-Dichlorobenzene
Concen: 49.304 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:146 Resp: 227493

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.2	66.6
148	64.1	31.8	95.4

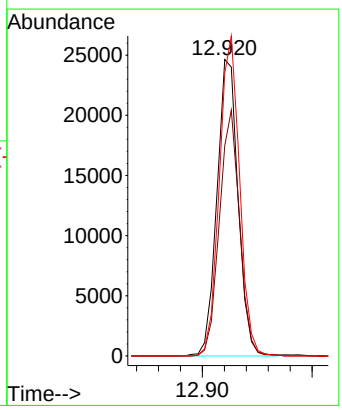


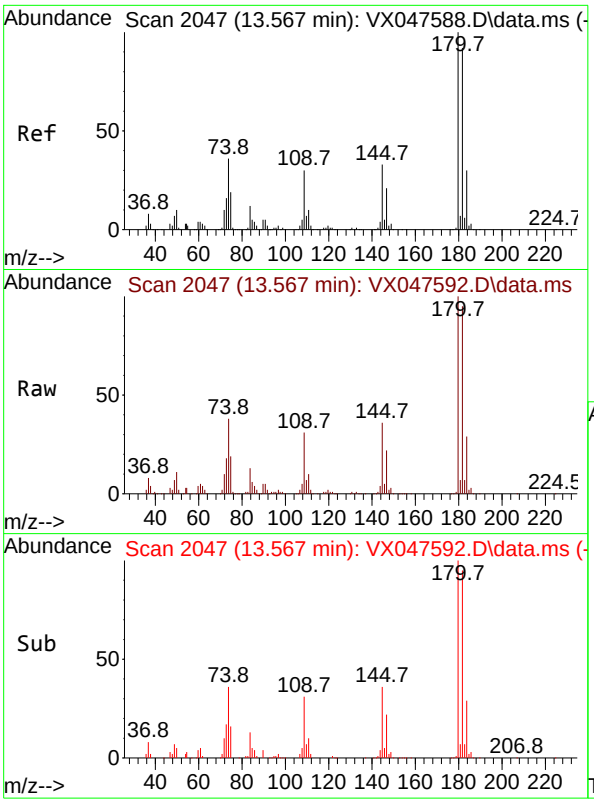


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.918 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 33020

Ion	Ratio	Lower	Upper
75	100		
155	79.1	37.7	113.1
157	103.2	49.8	149.4



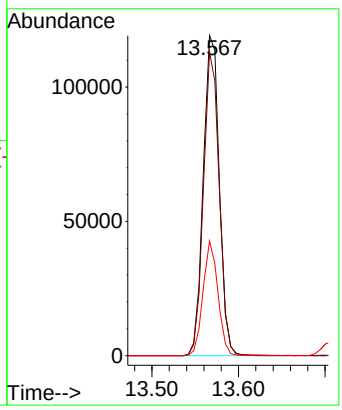


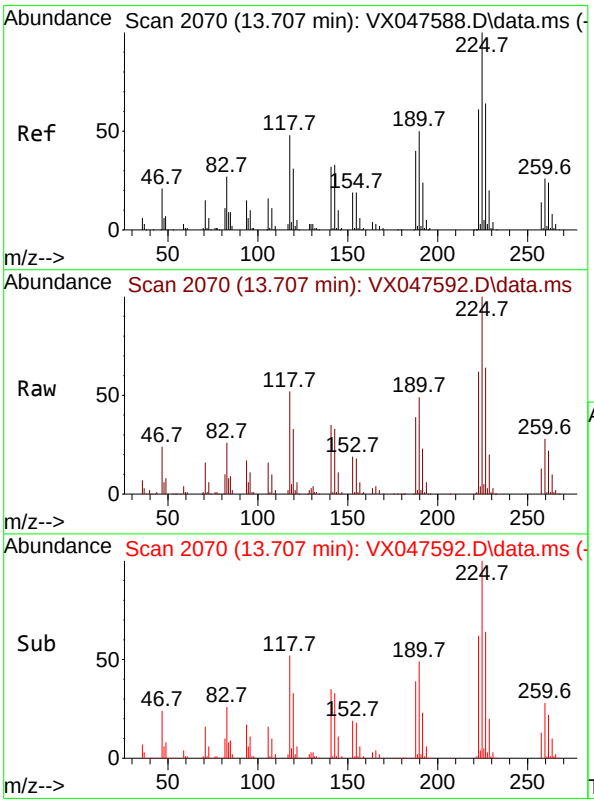
#93
1,2,4-Trichlorobenzene
Concen: 51.133 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:180 Resp: 153333

Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.6	139.8
145	33.3	16.4	49.1

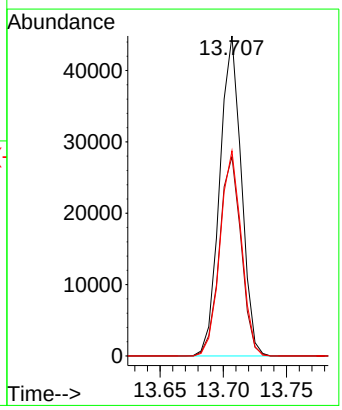


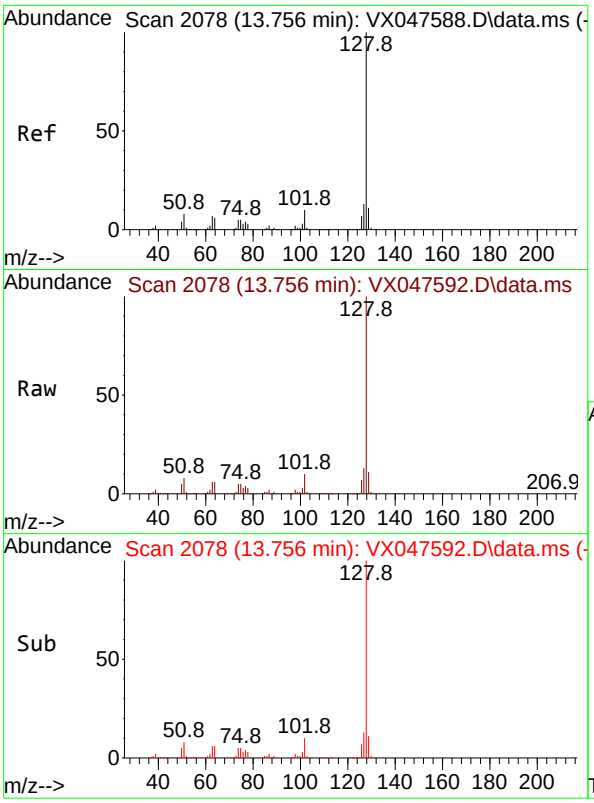


#94
Hexachlorobutadiene
Concen: 52.131 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:225 Resp: 53099

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.7	95.1
227	63.3	32.0	96.0



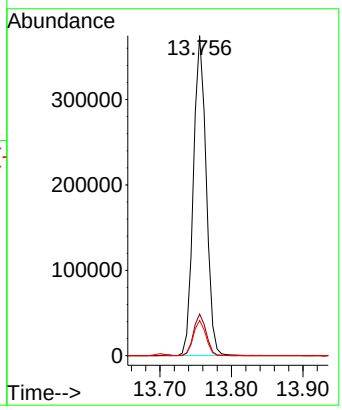


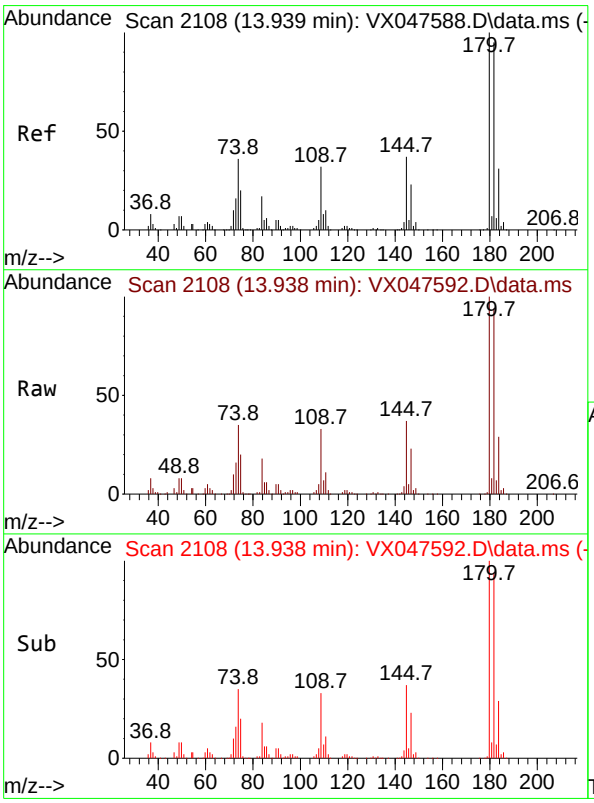
#95
Naphthalene
Concen: 50.836 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:128 Resp: 464206

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2

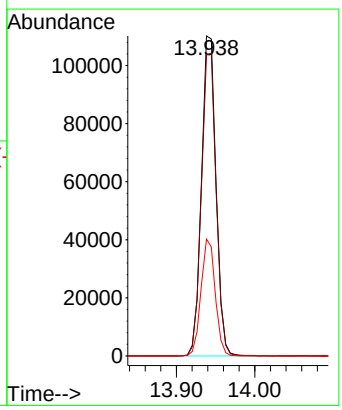




#96
1,2,3-Trichlorobenzene
Concen: 51.054 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:180 Resp: 142413

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.6	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	168285	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	306730	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	272268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	129778	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	131043	48.921	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.840%			
35) Dibromofluoromethane	5.367	113	100766	48.985	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.960%			
50) Toluene-d8	8.629	98	344123	48.346	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.700%			
62) 4-Bromofluorobenzene	11.061	95	130212	48.202	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	109308	62.726	ug/l	98
3) Chloromethane	1.301	50	133876	58.454	ug/l	99
4) Vinyl Chloride	1.380	62	128689	57.401	ug/l	100
5) Bromomethane	1.618	94	85593	60.207	ug/l	96
6) Chloroethane	1.691	64	81959	54.697	ug/l	99
7) Trichlorofluoromethane	1.892	101	177530	53.331	ug/l	98
8) Diethyl Ether	2.136	74	72507	53.247	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	101931	52.368	ug/l	100
10) Methyl Iodide	2.453	142	161075	53.061	ug/l	100
11) Tert butyl alcohol	2.941	59	76492	256.398	ug/l	96
12) 1,1-Dichloroethene	2.325	96	106990	53.511	ug/l	96
13) Acrolein	2.233	56	76226	277.267	ug/l	100
14) Allyl chloride	2.660	41	214937	52.096	ug/l	98
15) Acrylonitrile	3.056	53	309800	280.351	ug/l	99
16) Acetone	2.374	43	311710	267.632	ug/l	100
17) Carbon Disulfide	2.514	76	312779	57.144	ug/l	97
18) Methyl Acetate	2.697	43	138468	53.421	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	382912	52.463	ug/l	100
20) Methylene Chloride	2.782	84	128420	52.090	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	116131	53.949	ug/l	98
22) Diisopropyl ether	3.745	45	424760	53.122	ug/l	87
23) Vinyl Acetate	3.709	43	1775588	277.456	ug/l	100
24) 1,1-Dichloroethane	3.599	63	223923	52.689	ug/l	97
25) 2-Butanone	4.532	43	392796	270.370	ug/l	97
26) 2,2-Dichloropropane	4.465	77	182677	51.709	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	139356	52.862	ug/l	99
28) Bromochloromethane	4.879	49	102961	55.493	ug/l	99
29) Tetrahydrofuran	4.983	42	240704	275.412	ug/l	99
30) Chloroform	5.074	83	224397	52.250	ug/l	99
31) Cyclohexane	5.452	56	180483	50.989	ug/l	97
32) 1,1,1-Trichloroethane	5.367	97	187258	51.405	ug/l	100
36) 1,1-Dichloropropene	5.672	75	148709	49.472	ug/l	99
37) Ethyl Acetate	4.690	43	167930	52.177	ug/l	98
38) Carbon Tetrachloride	5.660	117	158068	48.399	ug/l	96
39) Methylcyclohexane	7.361	83	173329	50.798	ug/l	98
40) Benzene	6.019	78	469978	51.478	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.898	41	89756	54.019	ug/l	98
42) 1,2-Dichloroethane	6.068	62	173829	50.041	ug/l	99
43) Isopropyl Acetate	6.318	43	269858	51.124	ug/l	99
44) Trichloroethene	7.104	130	113653	51.491	ug/l	100
45) 1,2-Dichloropropane	7.409	63	118540	50.706	ug/l	99
46) Dibromomethane	7.562	93	87295	51.314	ug/l	99
47) Bromodichloromethane	7.799	83	177916	50.681	ug/l	98
48) Methyl methacrylate	7.671	41	135518	51.542	ug/l	99
49) 1,4-Dioxane	7.641	88	33615	1265.071	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	772605	263.992	ug/l	100
52) Toluene	8.702	92	285358	50.732	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	184125	51.420	ug/l	99
54) cis-1,3-Dichloropropene	8.348	75	198129	51.767	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	110081	50.755	ug/l	98
56) Ethyl methacrylate	9.098	69	181056	53.155	ug/l	96
57) 1,3-Dichloropropane	9.293	76	193901	52.043	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.220	63	426594	261.332	ug/l	100
59) 2-Hexanone	9.415	43	551745	262.497	ug/l	98
60) Dibromochloromethane	9.500	129	129786	51.934	ug/l	100
61) 1,2-Dibromoethane	9.592	107	117326	53.110	ug/l	99
64) Tetrachloroethene	9.257	164	86883	48.951	ug/l	98
65) Chlorobenzene	10.061	112	308645	49.899	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.147	131	107031	50.145	ug/l	100
67) Ethyl Benzene	10.177	91	536224	50.244	ug/l	100
68) m/p-Xylenes	10.281	106	400119	100.725	ug/l	99
69) o-Xylene	10.622	106	194487	50.618	ug/l	99
70) Styrene	10.634	104	346312	51.440	ug/l	98
71) Bromoform	10.781	173	81077	50.872	ug/l	99
73) Isopropylbenzene	10.945	105	493376	50.005	ug/l	99
74) N-amyl acetate	10.823	43	234901	52.208	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	154912	51.895	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	174114	66.263	ug/l	92
77) Bromobenzene	11.177	156	121922	50.172	ug/l	99
78) n-propylbenzene	11.287	91	583388	50.018	ug/l	99
79) 2-Chlorotoluene	11.348	91	356287	49.875	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	409554	50.523	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	51972	50.440	ug/l	99
82) 4-Chlorotoluene	11.433	91	421274	49.932	ug/l	99
83) tert-Butylbenzene	11.695	119	399938	48.196	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	415095	50.508	ug/l	100
85) sec-Butylbenzene	11.872	105	489102	49.622	ug/l	100
86) p-Isopropyltoluene	11.988	119	415198	49.757	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	226308	50.139	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	227633	49.138	ug/l	99
89) n-Butylbenzene	12.311	91	386234	50.022	ug/l	99
90) Hexachloroethane	12.518	117	73125	49.913	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	215367	50.084	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	31345	51.864	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	141532	50.643	ug/l	100
94) Hexachlorobutadiene	13.707	225	47423	49.957	ug/l	99
95) Naphthalene	13.756	128	428676	50.373	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	133374	51.304	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

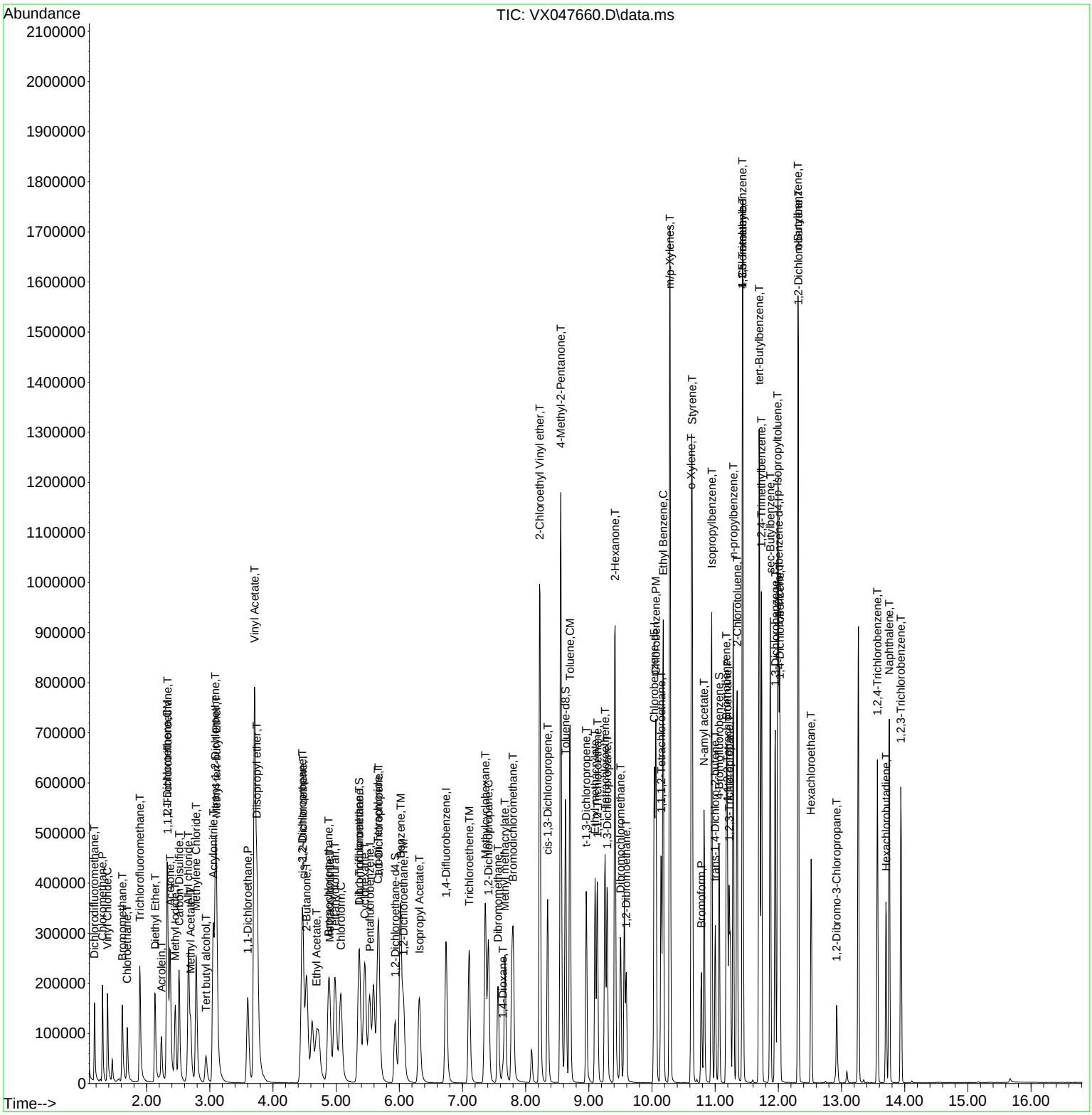
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

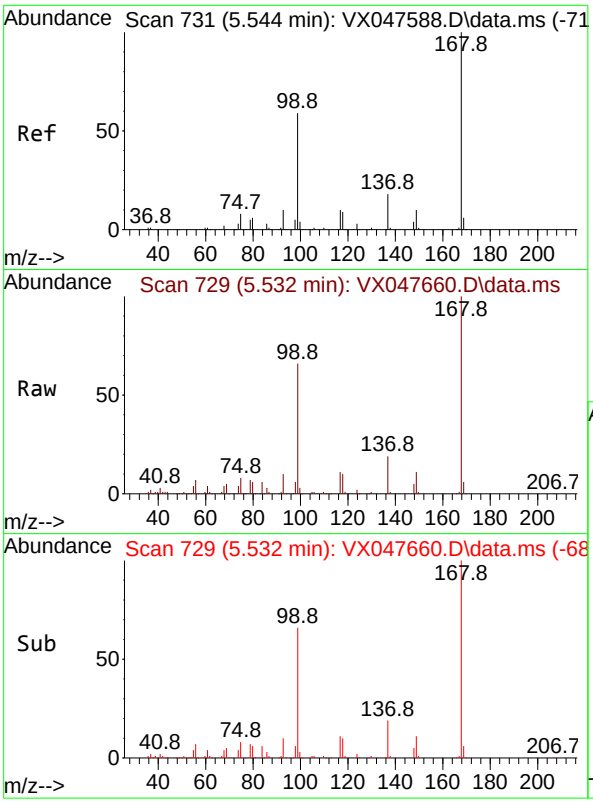
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047660.D
Acq On : 19 Sep 2025 09:22
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 20 00:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



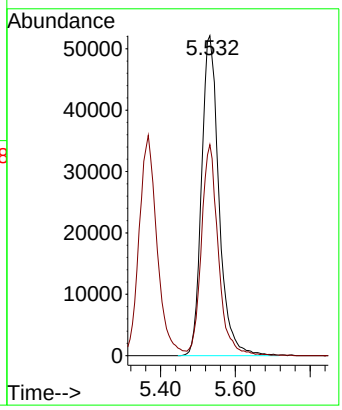


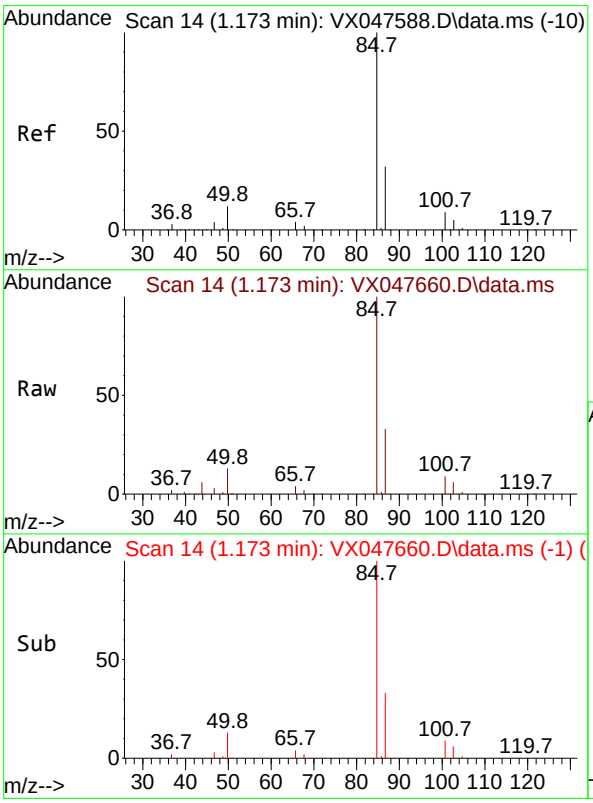
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 168285

Ion	Ratio	Lower	Upper
168	100		
99	65.8	48.8	73.2

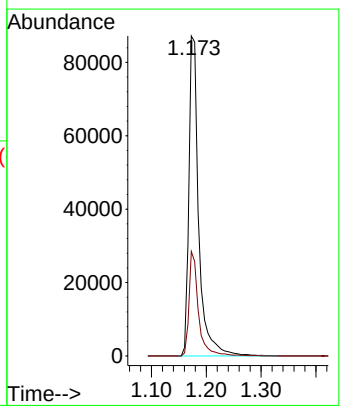


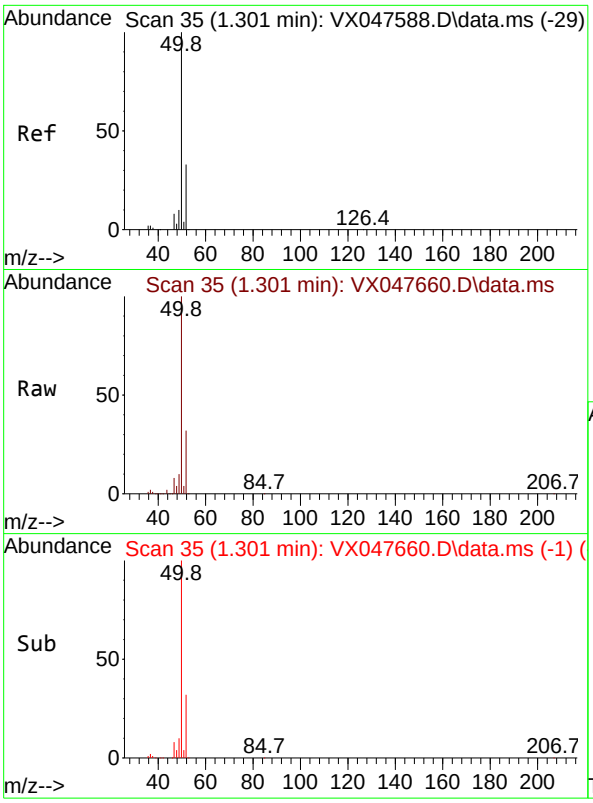


#2
Dichlorodifluoromethane
Concen: 62.726 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 85 Resp: 109308

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.8	47.3



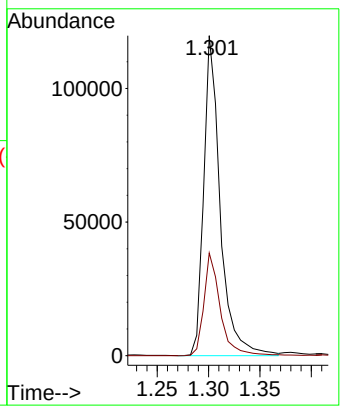


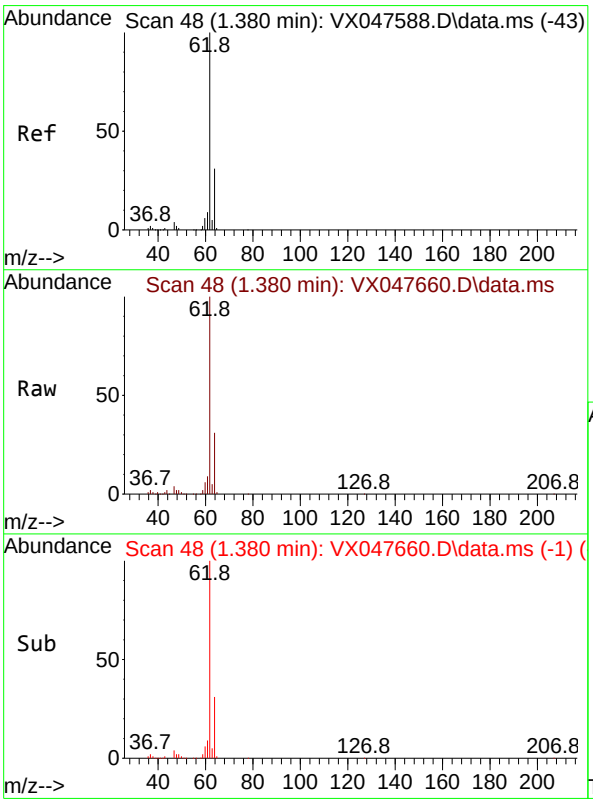
#3
Chloromethane
Concen: 58.454 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 133876

Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.1	39.1

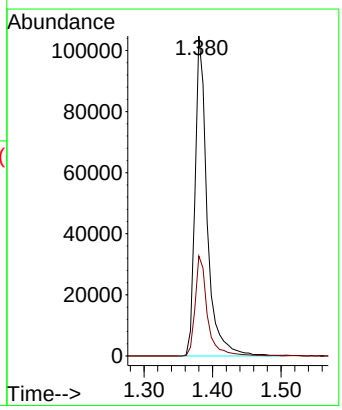


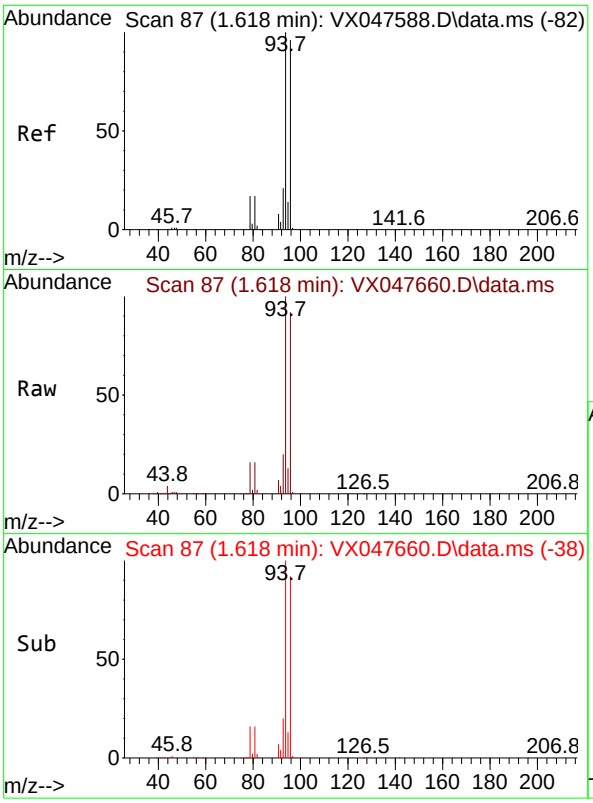


#4
Vinyl Chloride
Concen: 57.401 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 62 Resp: 128689

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.9	37.3



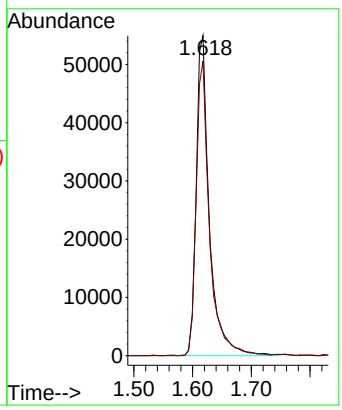


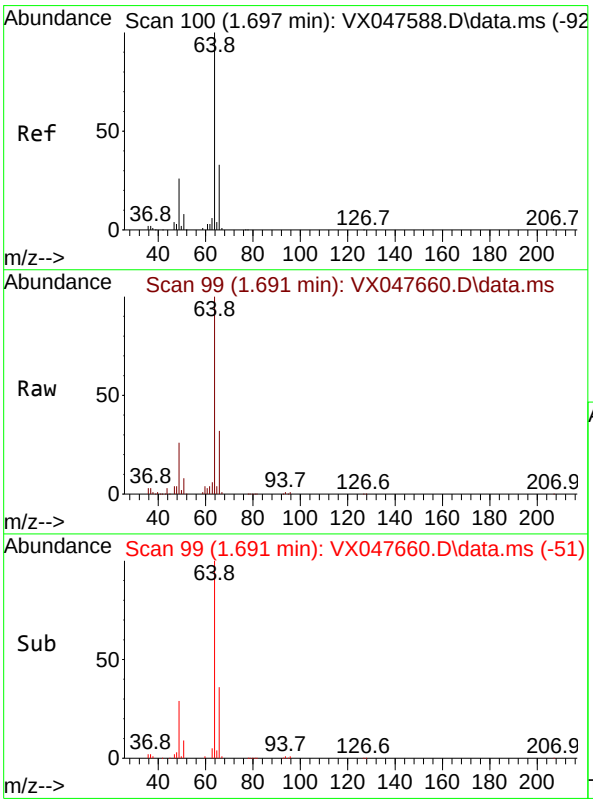
#5
Bromomethane
Concen: 60.207 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 85593

Ion	Ratio	Lower	Upper
94	100		
96	92.0	76.6	115.0

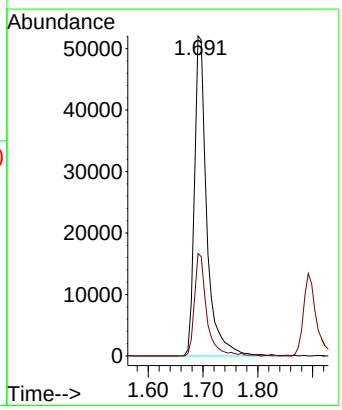


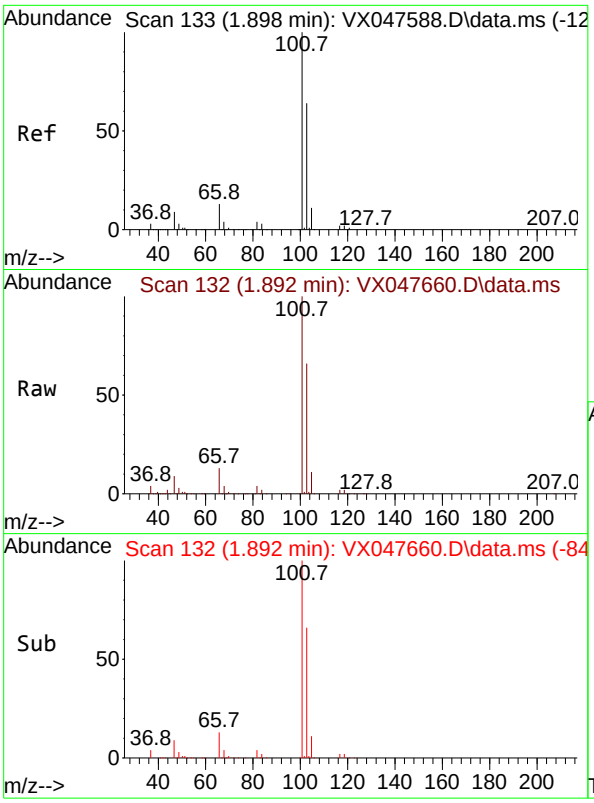


#6
Chloroethane
Concen: 54.697 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 64 Resp: 81959

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.1	39.1



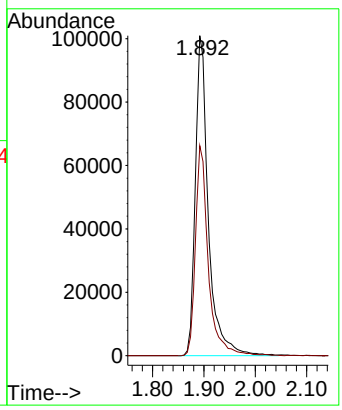


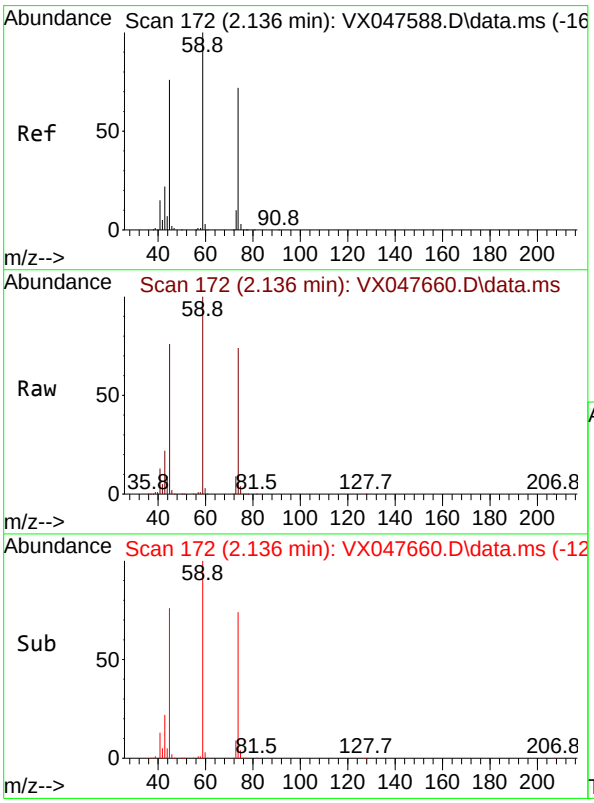
#7
Trichlorofluoromethane
Concen: 53.331 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 177530

Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.4	77.2

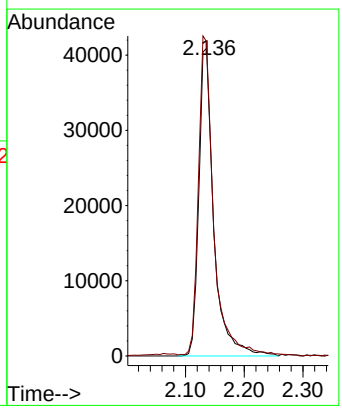


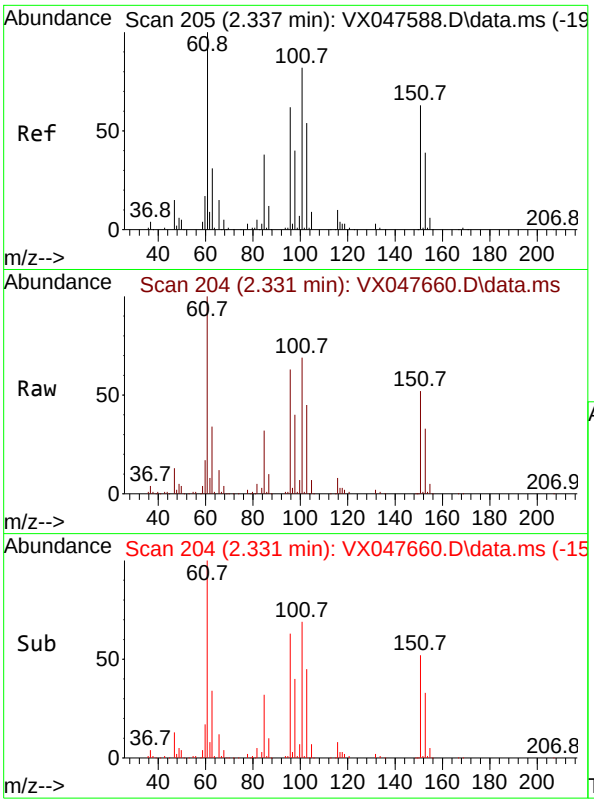


#8
Diethyl Ether
Concen: 53.247 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 74 Resp: 72507

Ion	Ratio	Lower	Upper
74	100		
45	106.8	52.3	156.8



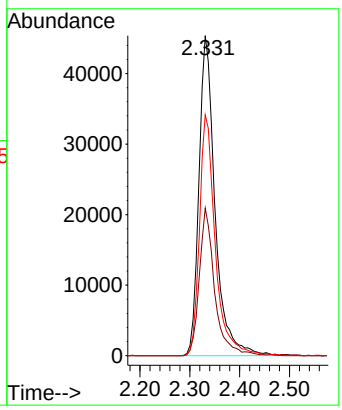


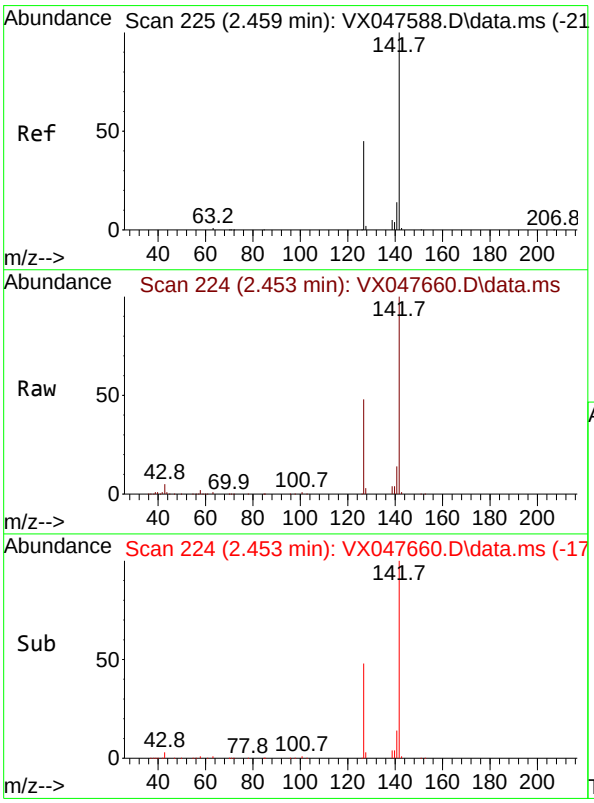
#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.368 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 101931

Ion	Ratio	Lower	Upper
101	100		
85	44.0	35.5	53.3
151	74.2	59.4	89.0

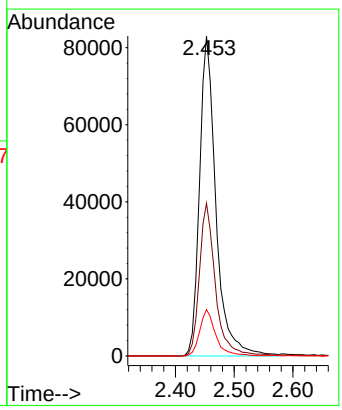


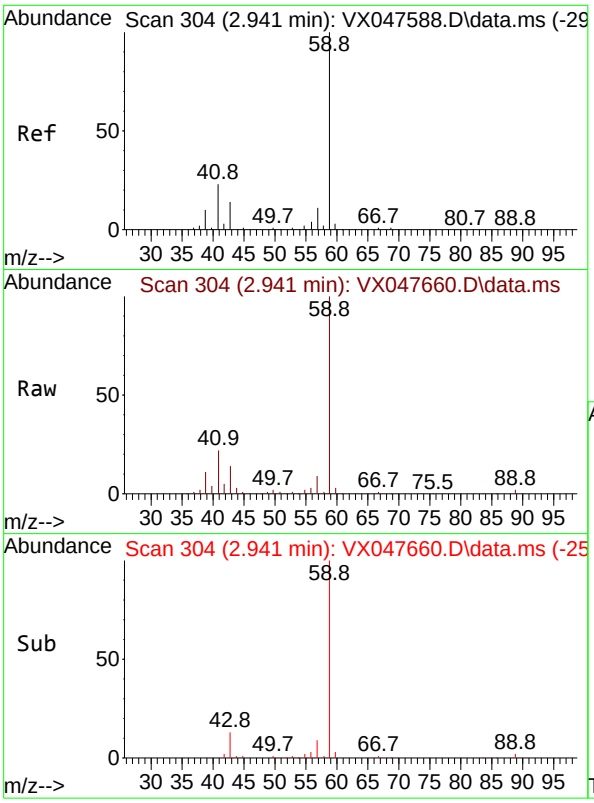


#10
Methyl Iodide
Concen: 53.061 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:142 Resp: 161075

Ion	Ratio	Lower	Upper
142	100		
127	46.6	37.2	55.8
141	14.2	11.4	17.0



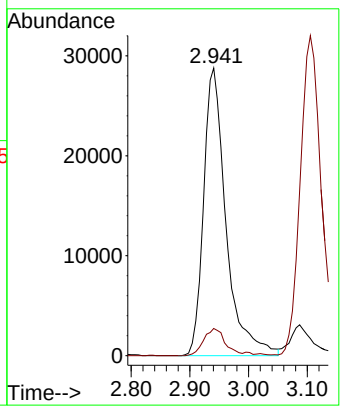


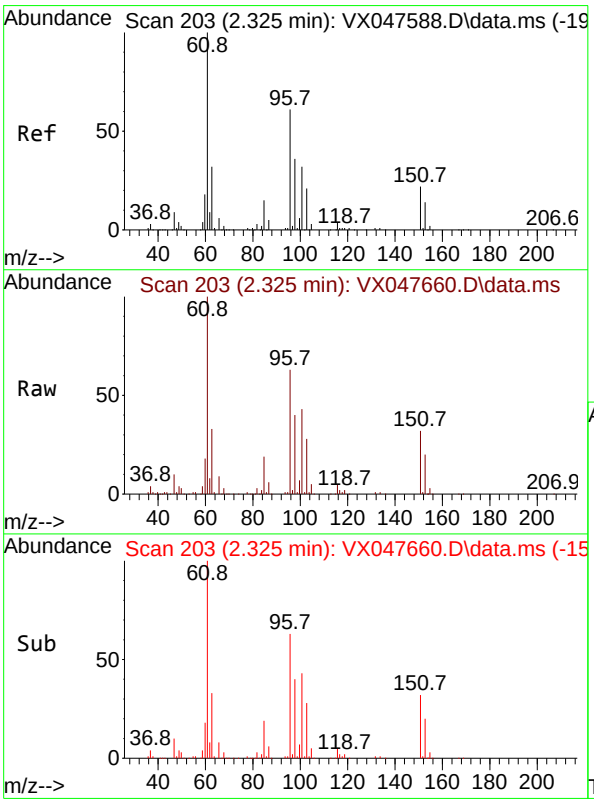
#11
Tert butyl alcohol
Concen: 256.398 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 76492

Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.3	12.5

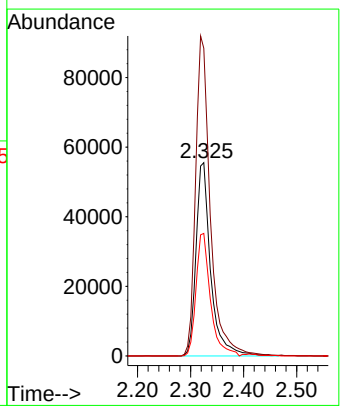


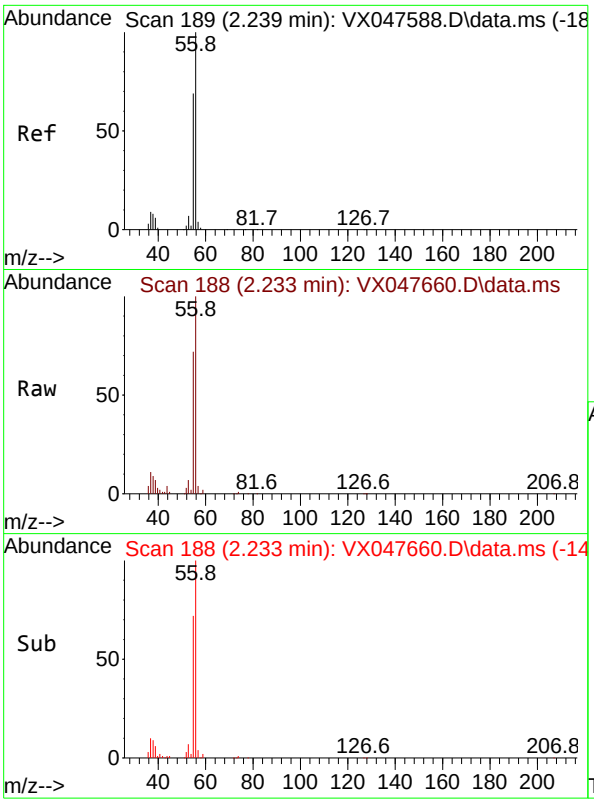


#12
1,1-Dichloroethene
Concen: 53.511 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 96 Resp: 106990

Ion	Ratio	Lower	Upper
96	100		
61	159.2	131.0	196.6
98	63.4	47.7	71.5



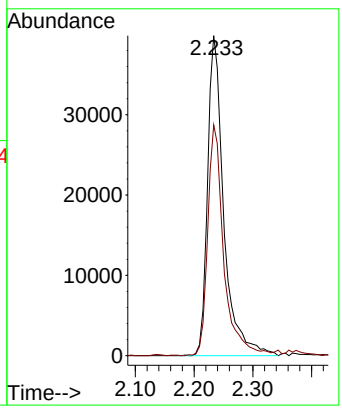


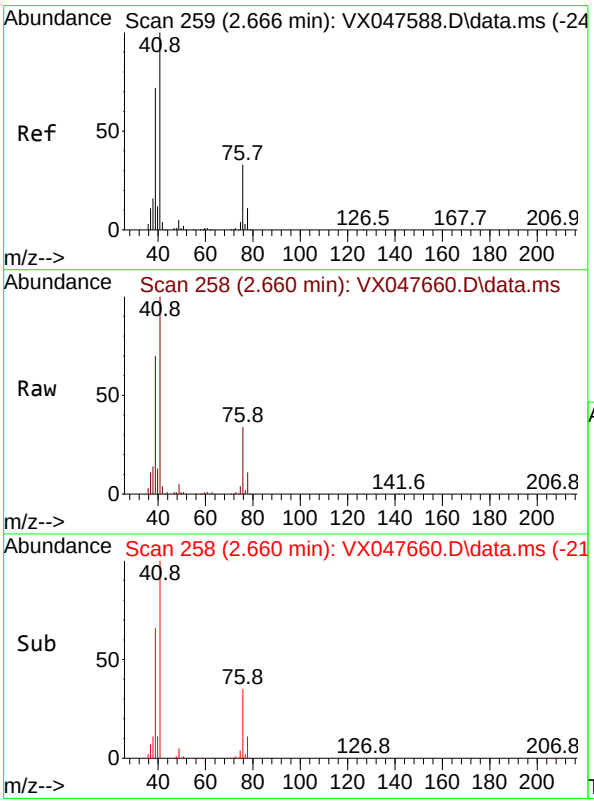
#13
Acrolein
Concen: 277.267 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 76226

Ion	Ratio	Lower	Upper
56	100		
55	71.3	57.2	85.8

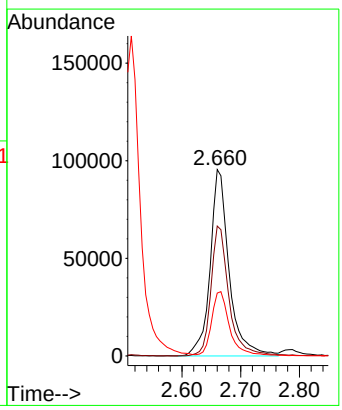


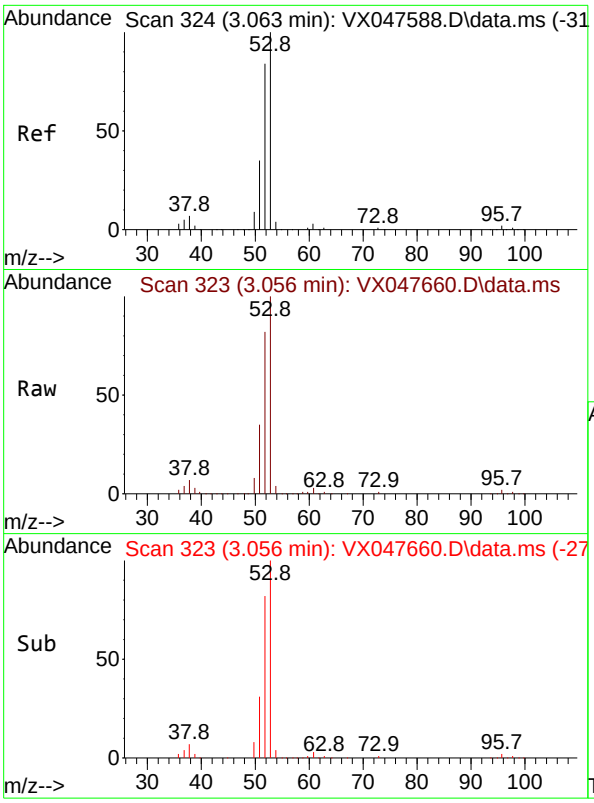


#14
Allyl chloride
Concen: 52.096 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 41 Resp: 214937

Ion	Ratio	Lower	Upper
41	100		
39	66.2	54.7	82.1
76	32.9	25.7	38.5



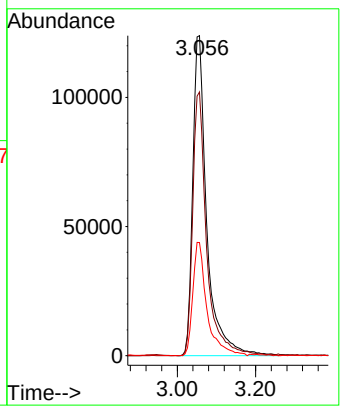


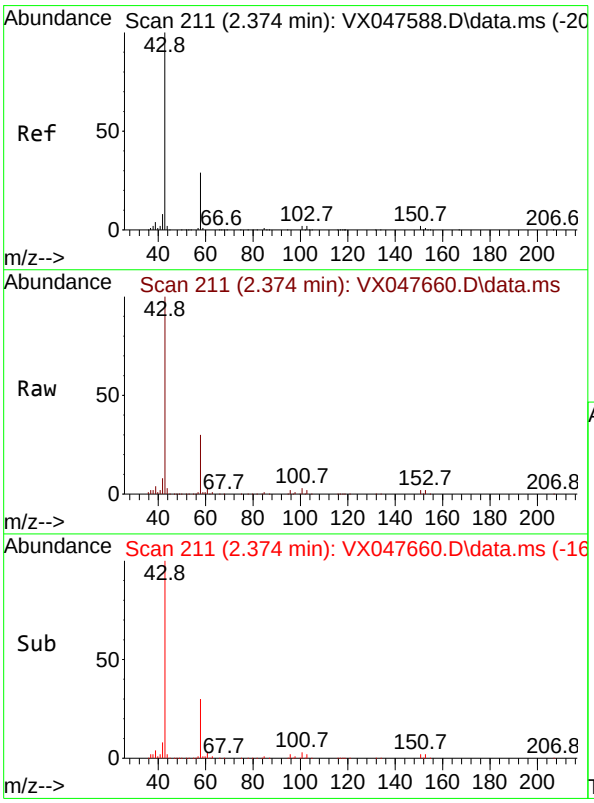
#15
Acrylonitrile
Concen: 280.351 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 309800

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	35.8	29.5	44.3

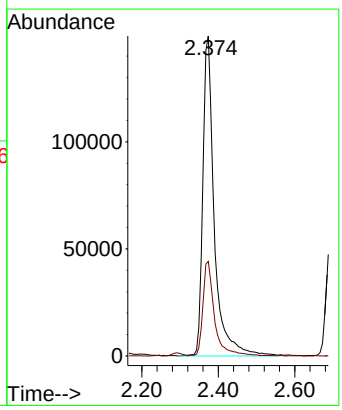


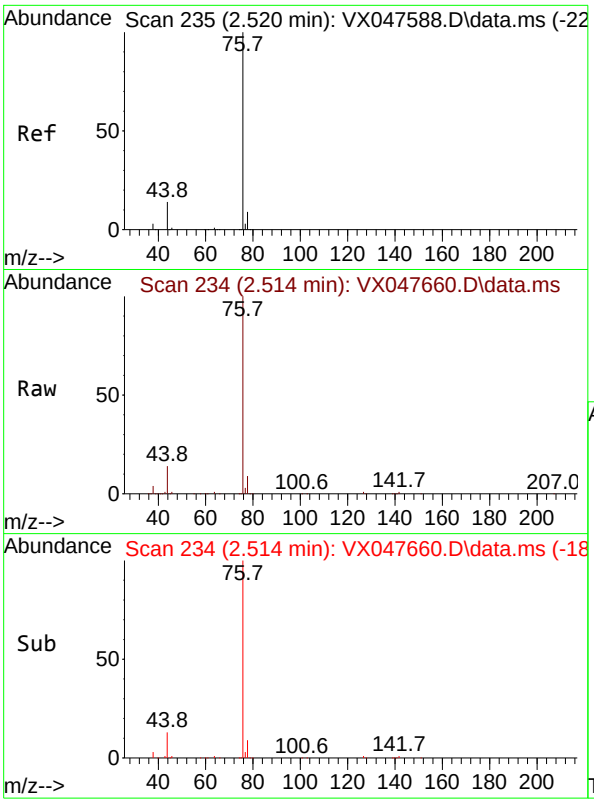


#16
Acetone
Concen: 267.632 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 311710

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.4	35.0



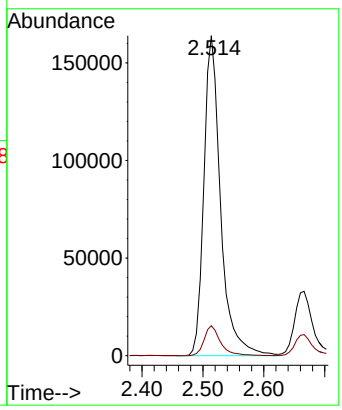


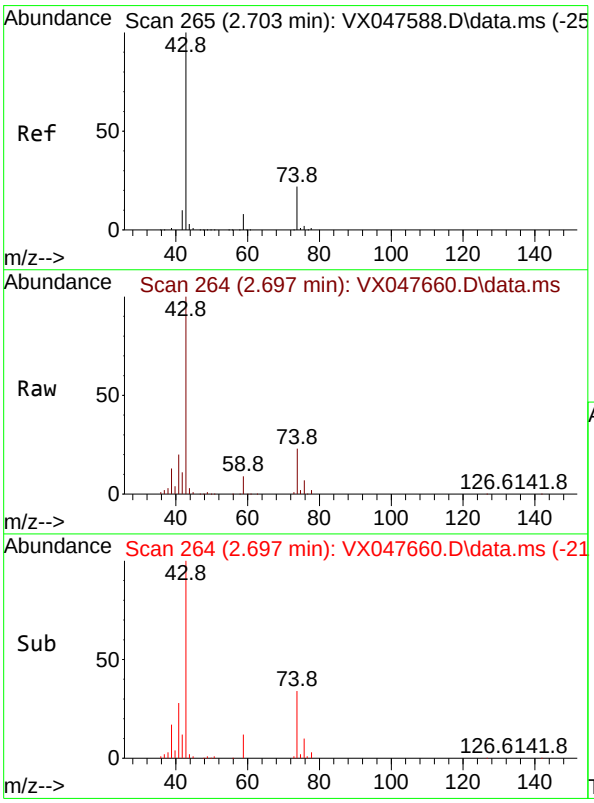
#17
Carbon Disulfide
Concen: 57.144 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 312779

Ion	Ratio	Lower	Upper
76	100		
78	9.5	6.8	10.2

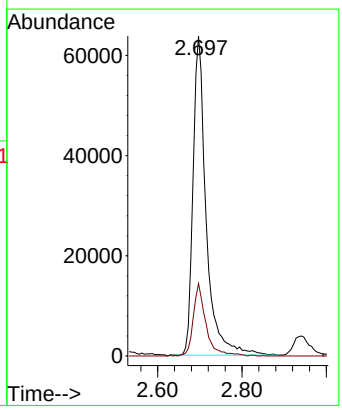


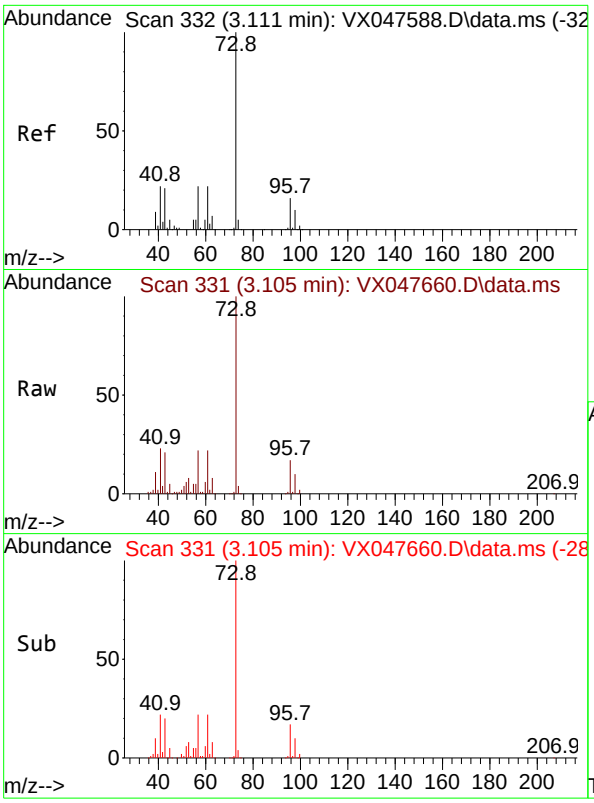


#18
Methyl Acetate
Concen: 53.421 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 138468

Ion	Ratio	Lower	Upper
43	100		
74	21.7	17.4	26.2



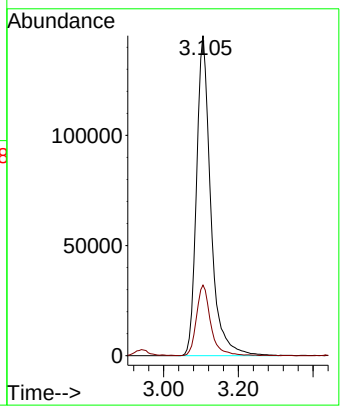


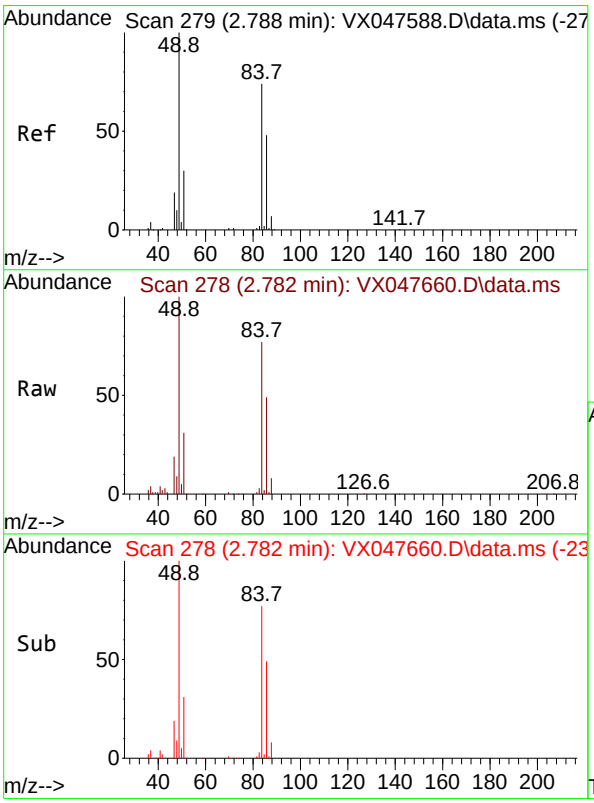
#19
Methyl tert-butyl Ether
Concen: 52.463 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 382912

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.2

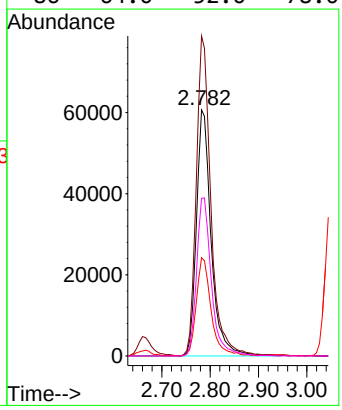


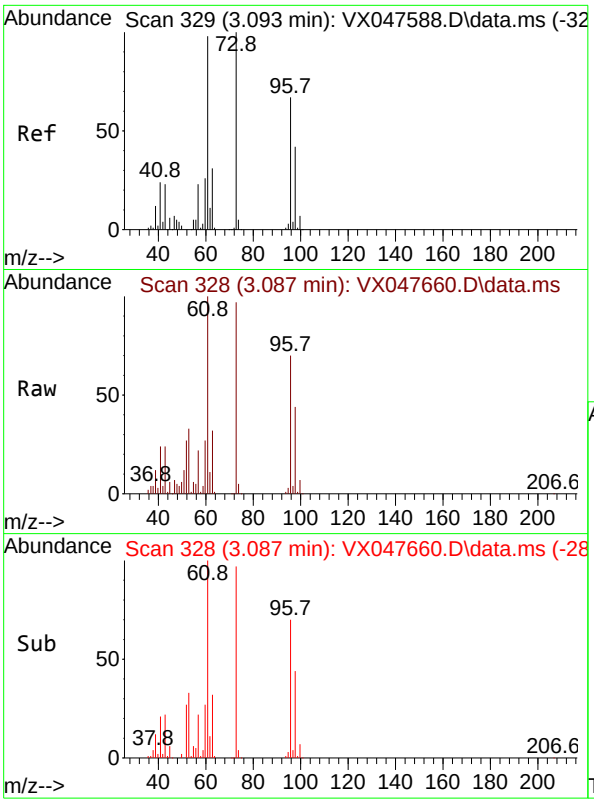


#20
Methylene Chloride
Concen: 52.090 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 84 Resp: 128420

Ion	Ratio	Lower	Upper
84	100		
49	129.8	108.6	162.8
51	39.9	32.6	48.8
86	64.0	52.0	78.0



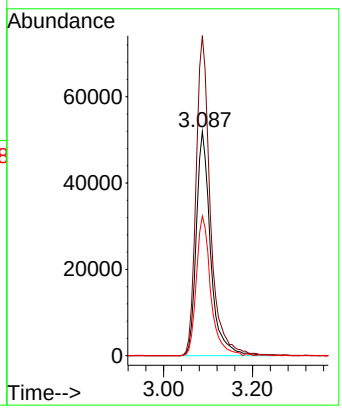


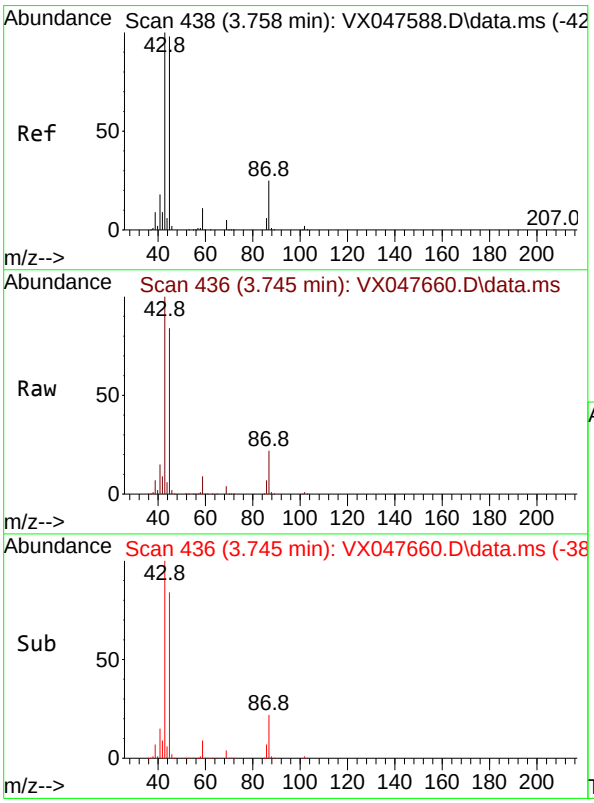
#21
trans-1,2-Dichloroethene
Concen: 53.949 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 116131

Ion	Ratio	Lower	Upper
96	100		
61	142.7	116.2	174.2
98	62.3	49.3	73.9

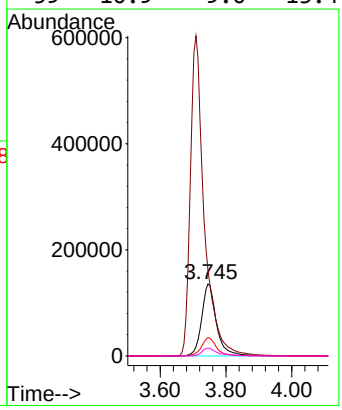


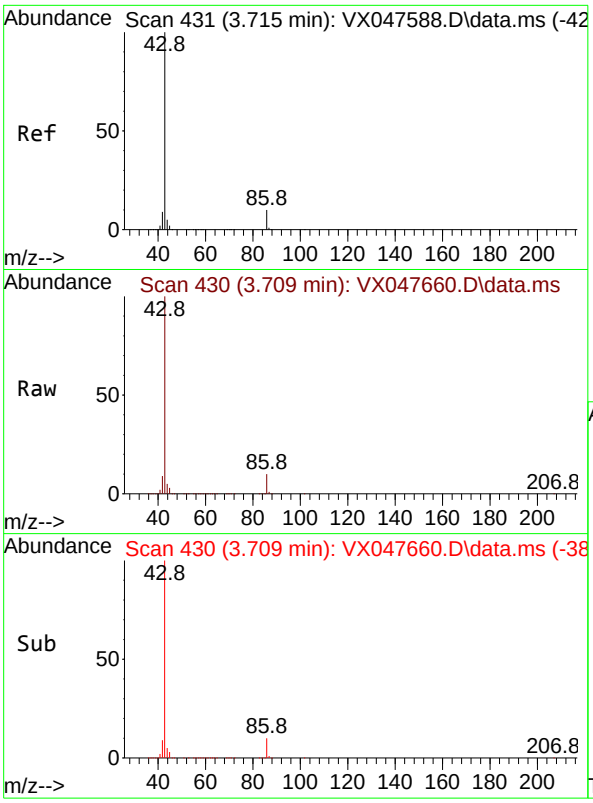


#22
Diisopropyl ether
Concen: 53.122 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 45 Resp: 424760

Ion	Ratio	Lower	Upper
45	100		
43	118.6	81.0	121.4
87	25.6	20.3	30.5
59	10.9	9.0	13.4



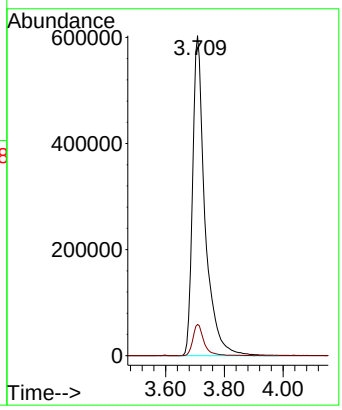


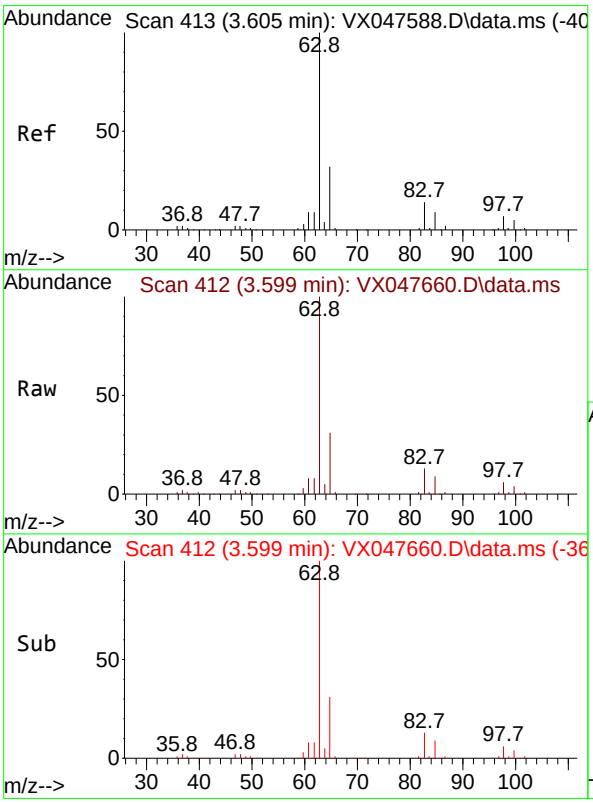
#23
Vinyl Acetate
Concen: 277.456 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1775588

Ion	Ratio	Lower	Upper
43	100		
86	9.7	7.8	11.8

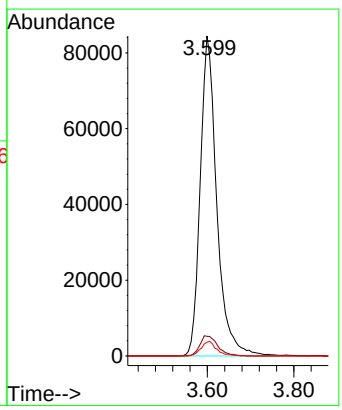


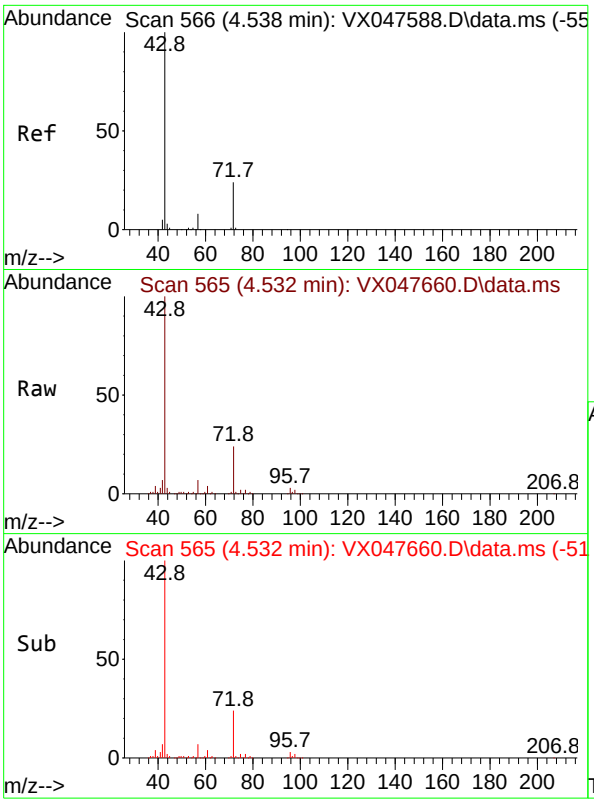


#24
1,1-Dichloroethane
Concen: 52.689 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 63 Resp: 223923

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.3	2.3	6.9



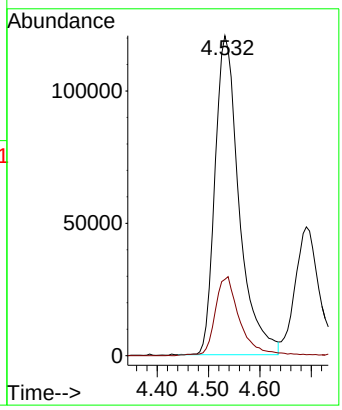


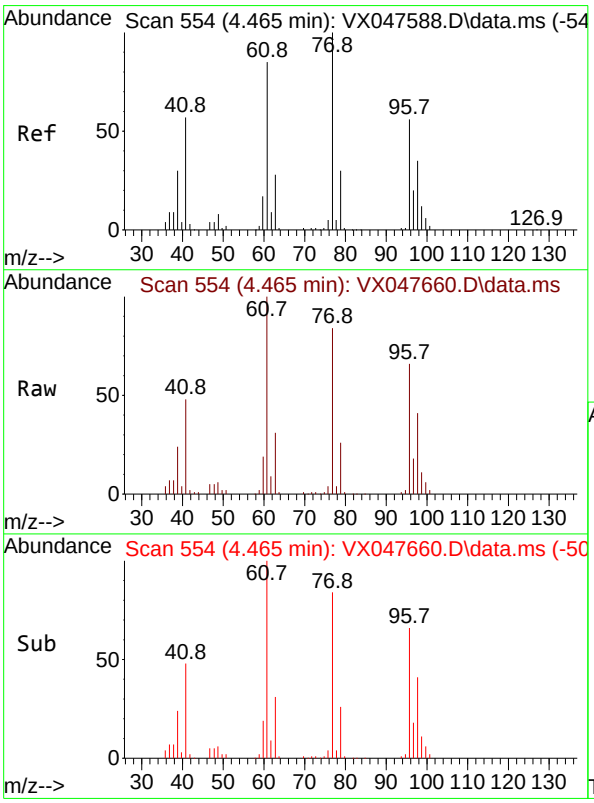
#25
2-Butanone
Concen: 270.370 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 392796

Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.1	30.1

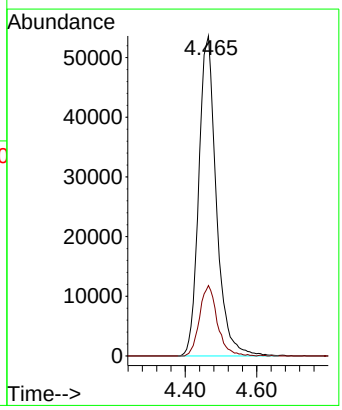


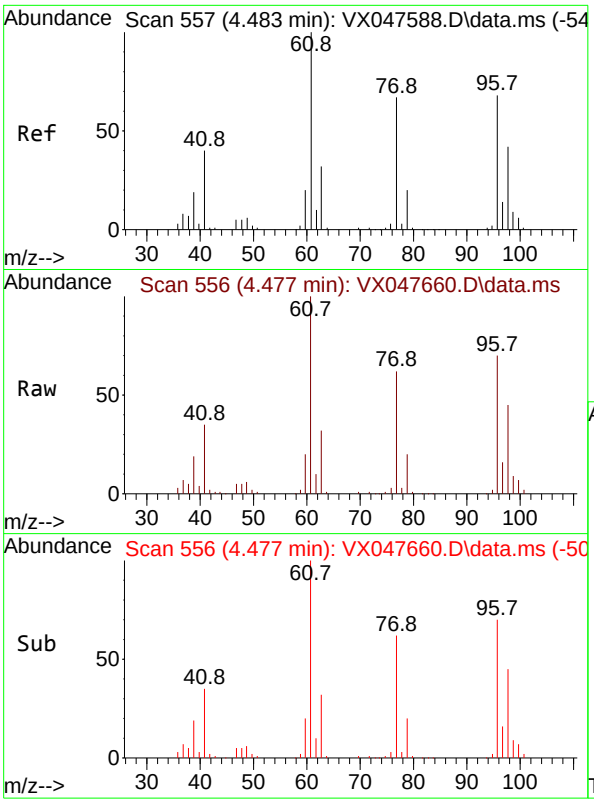


#26
2,2-Dichloropropane
Concen: 51.709 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 77 Resp: 182677

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7



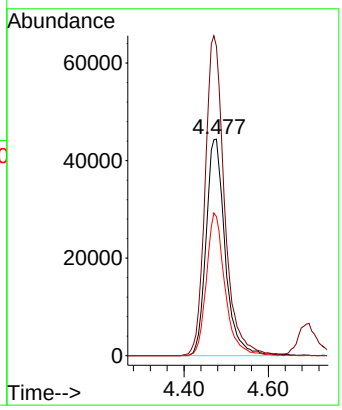


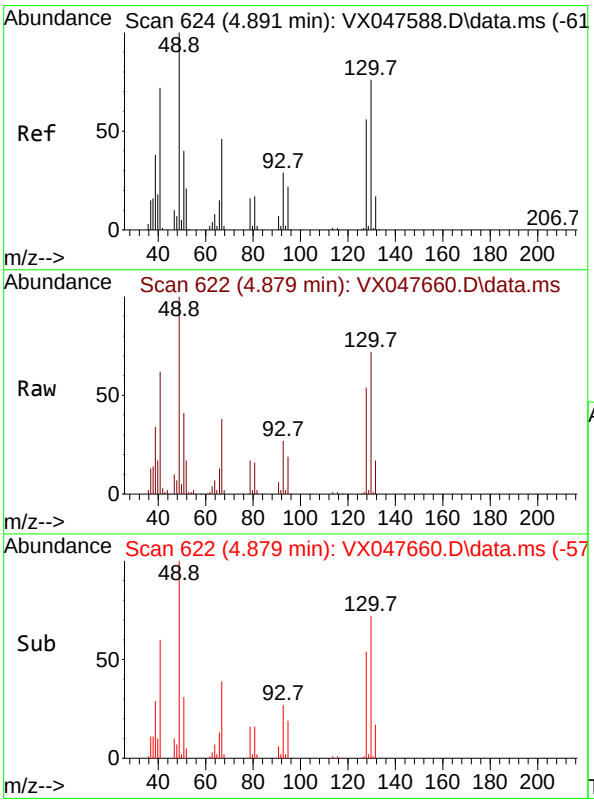
#27
cis-1,2-Dichloroethene
Concen: 52.862 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 139356

Ion	Ratio	Lower	Upper
96	100		
61	150.1	0.0	303.2
98	64.1	0.0	127.8

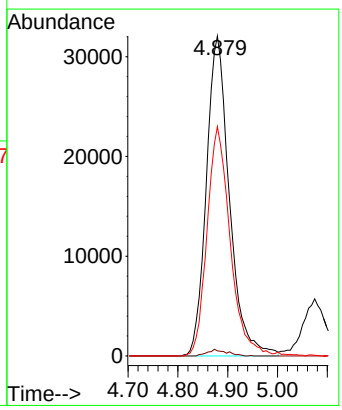


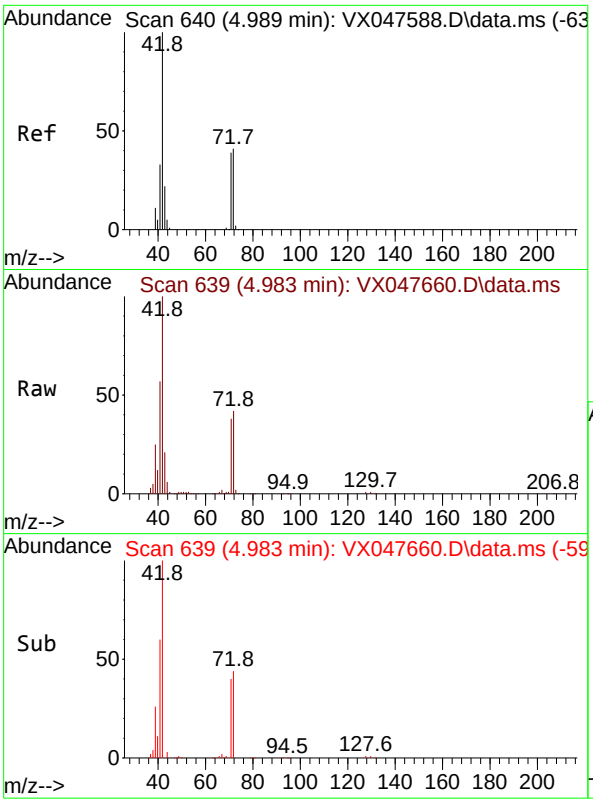


#28
Bromochloromethane
Concen: 55.493 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 49 Resp: 102961

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	71.6	57.8	86.8



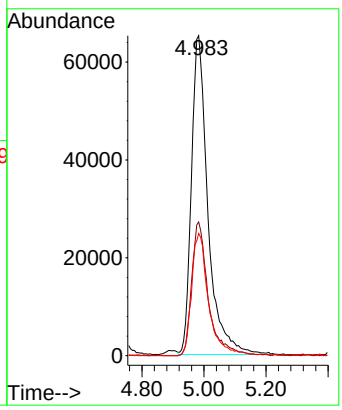


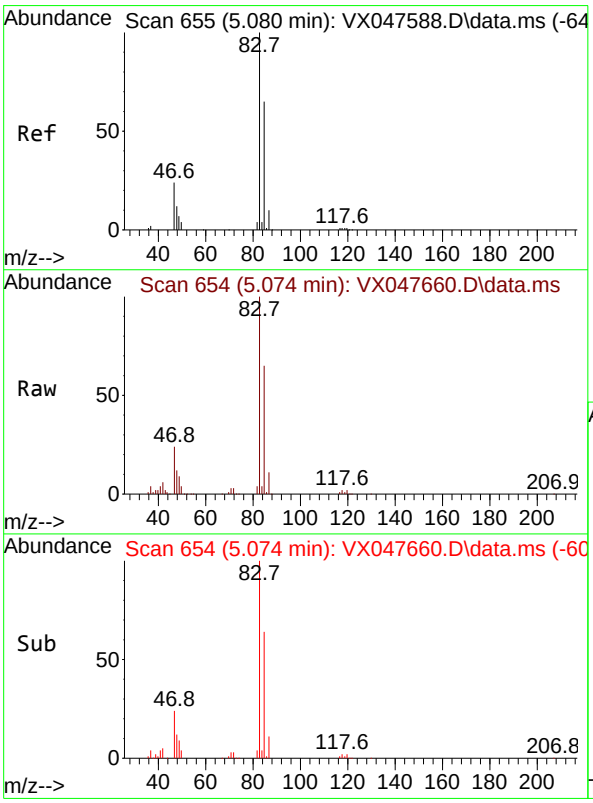
#29
Tetrahydrofuran
Concen: 275.412 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 240704

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.3	31.9	47.9

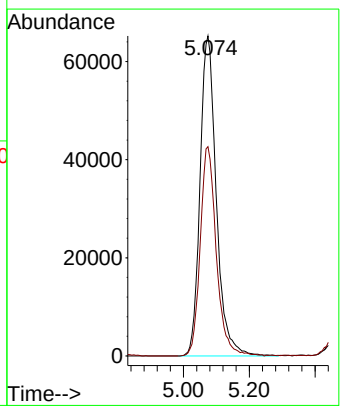


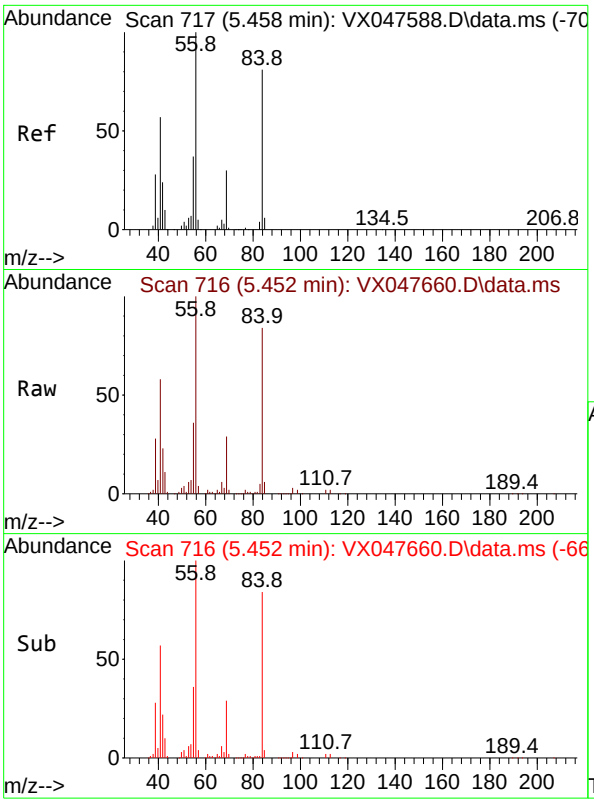


#30
Chloroform
Concen: 52.250 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 83 Resp: 224397

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.8	77.6



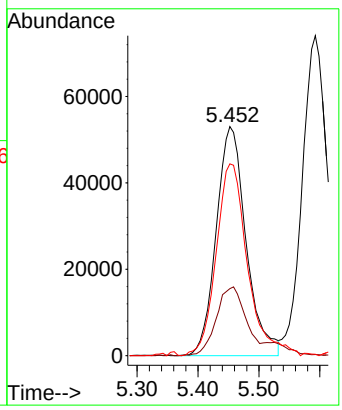


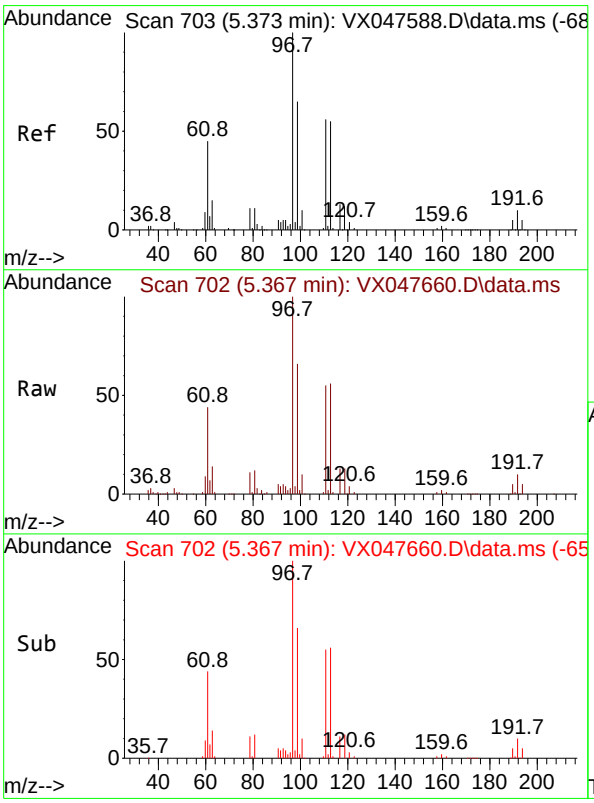
#31
Cyclohexane
Concen: 50.989 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 180483

Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.8	35.8
84	83.5	64.6	97.0

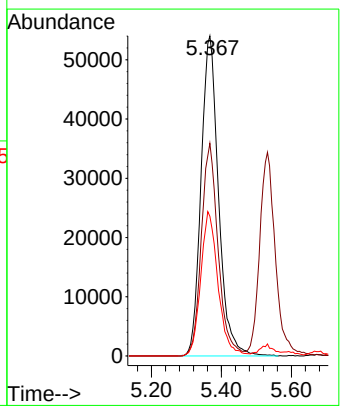


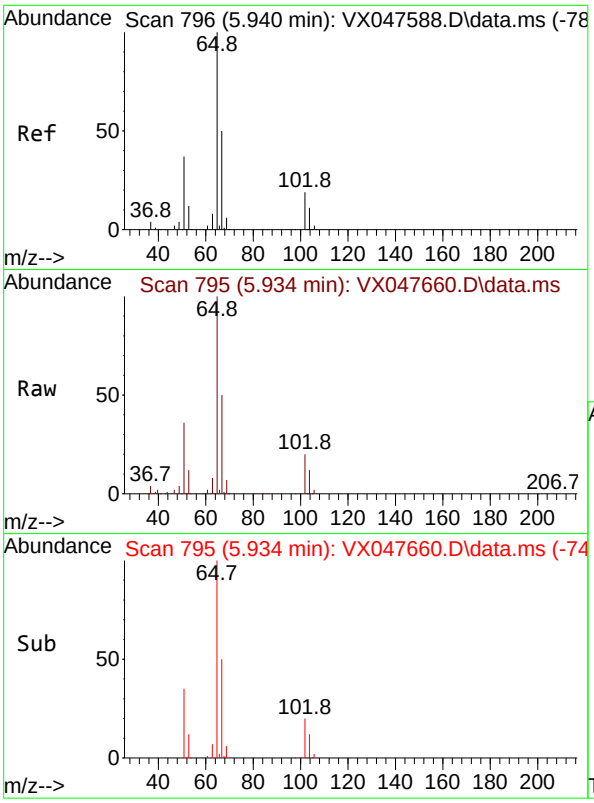


#32
1,1,1-Trichloroethane
Concen: 51.405 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 97 Resp: 187258

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.6	76.0
61	44.8	35.8	53.8



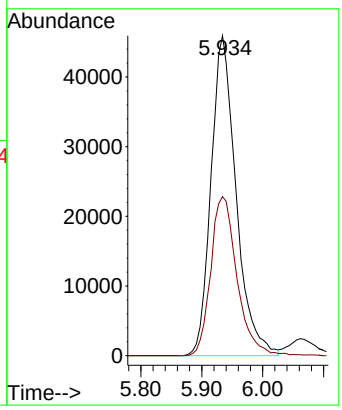


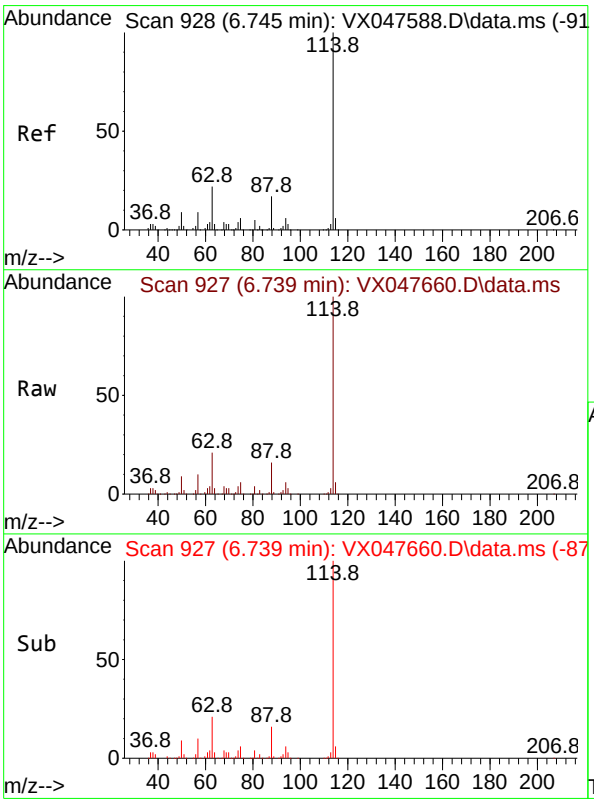
#33
1,2-Dichloroethane-d4
Concen: 48.921 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 131043

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0

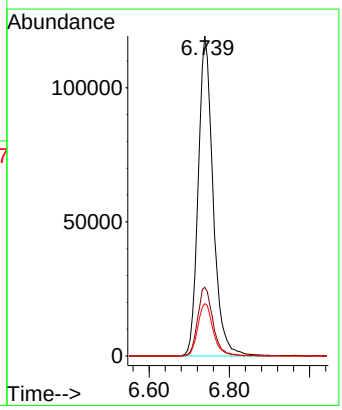


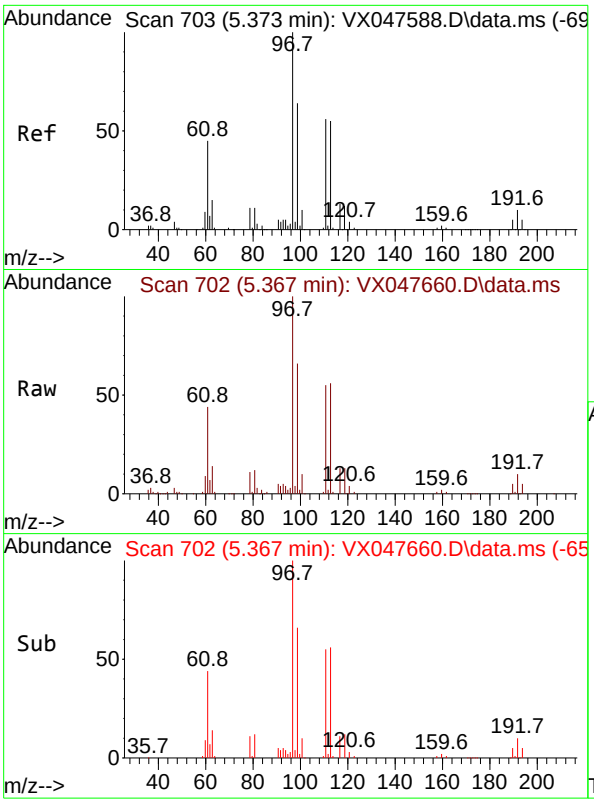


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:114 Resp: 306730

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	44.0
88	16.4	0.0	34.2



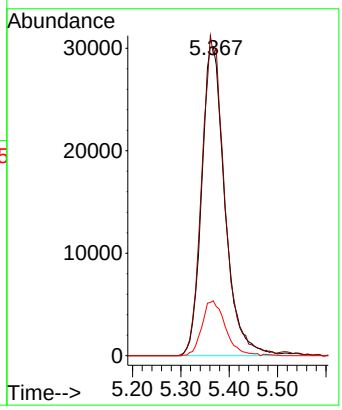


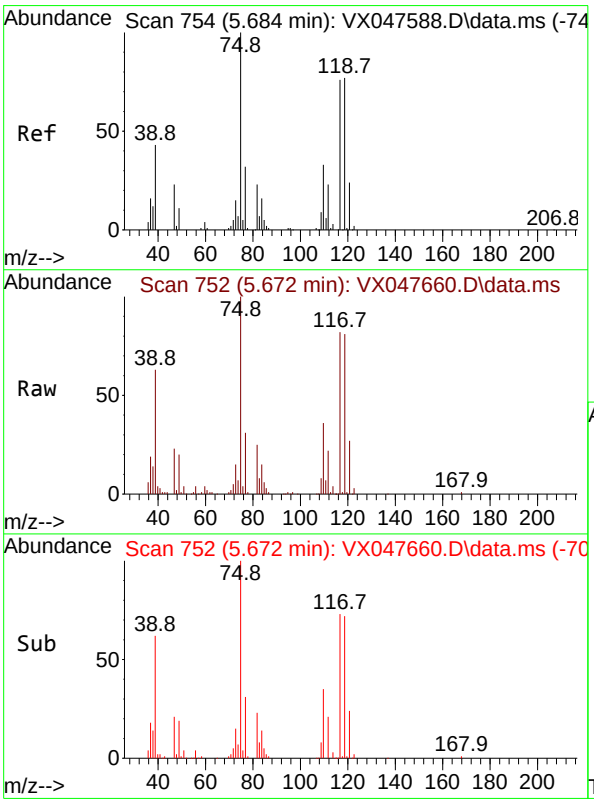
#35
Dibromofluoromethane
Concen: 48.985 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 100766

Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.9	121.3
192	17.9	14.2	21.4

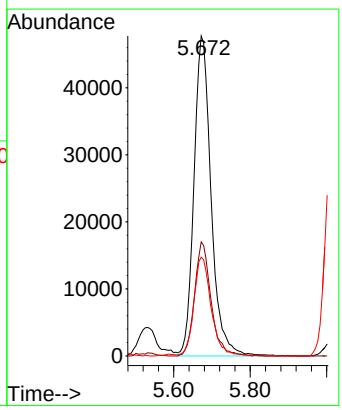


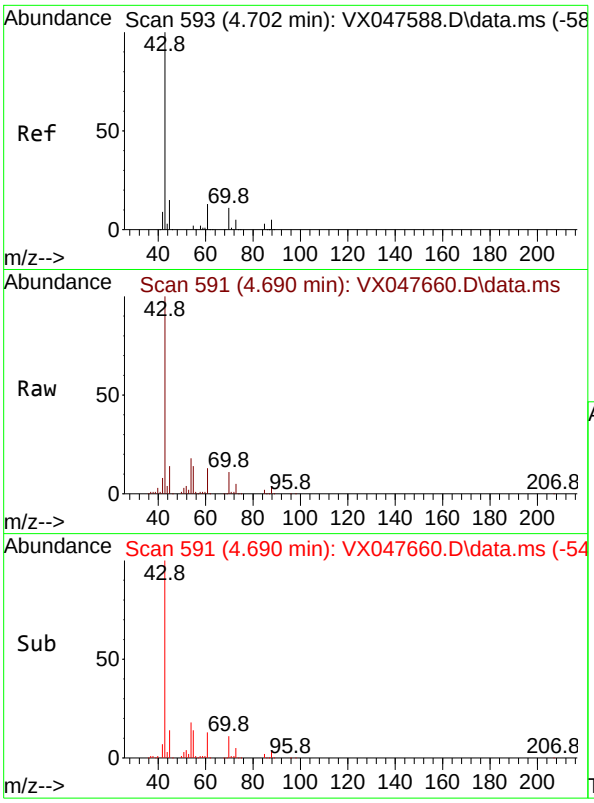


#36
1,1-Dichloropropene
Concen: 49.472 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 148709

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.7	50.1
77	31.1	24.3	36.5



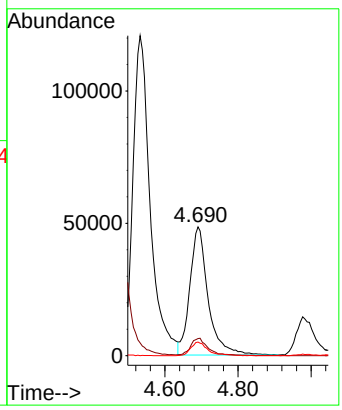


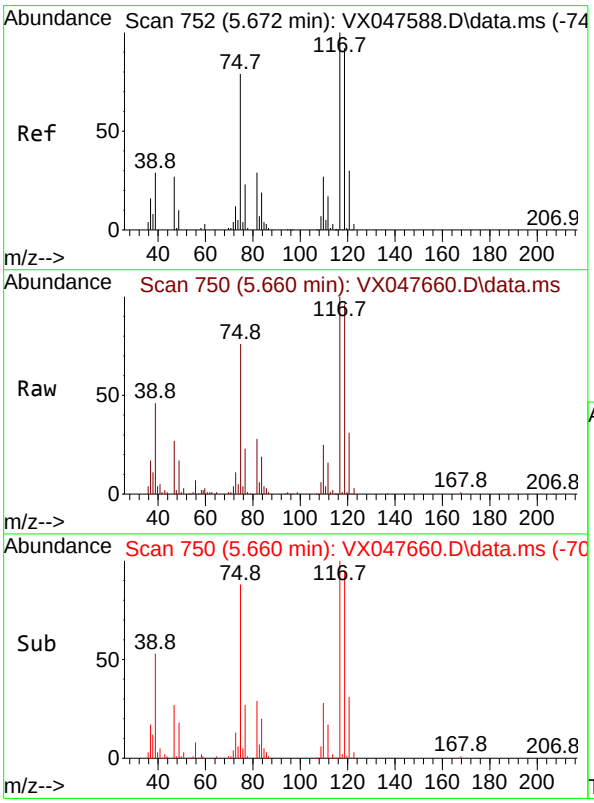
#37
Ethyl Acetate
Concen: 52.177 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 167930

Ion	Ratio	Lower	Upper
43	100		
61	13.5	9.8	14.8
70	9.9	7.9	11.9

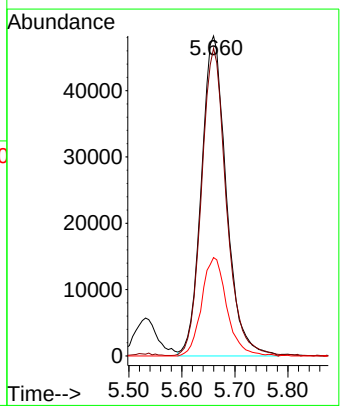


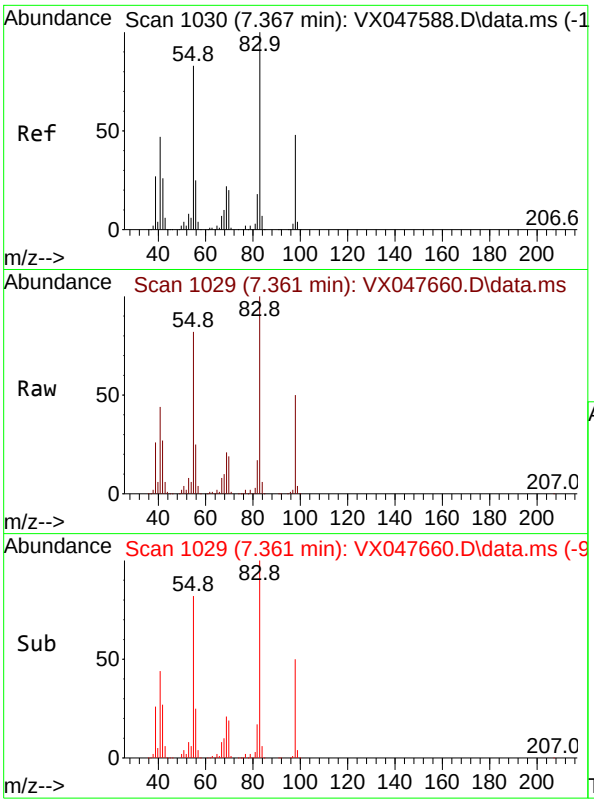


#38
Carbon Tetrachloride
Concen: 48.399 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:117 Resp: 158068

Ion	Ratio	Lower	Upper
117	100		
119	95.7	73.4	110.2
121	30.7	23.8	35.6



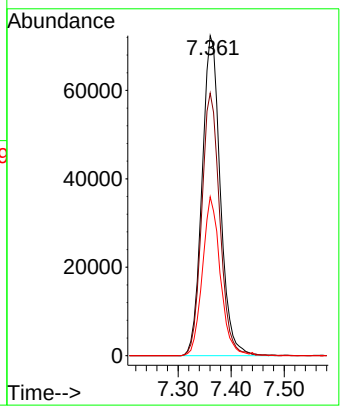


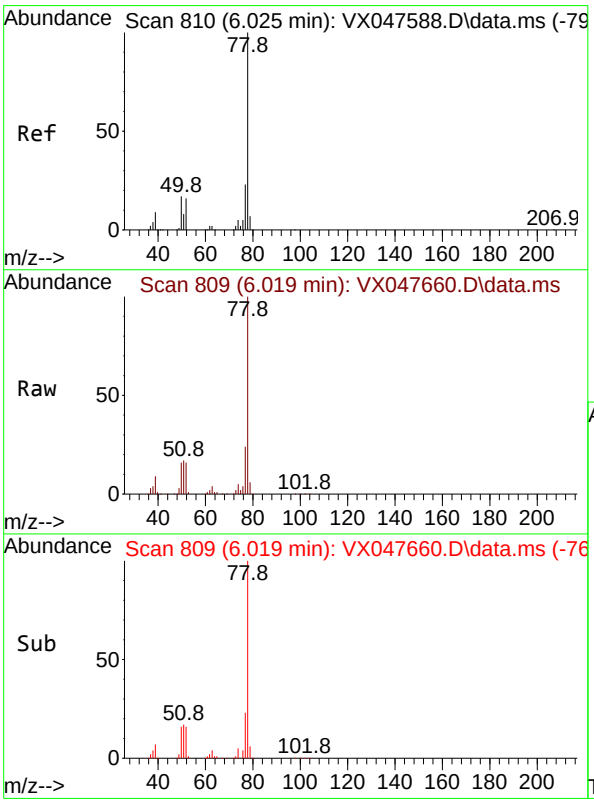
#39
Methylcyclohexane
Concen: 50.798 ug/l
RT: 7.361 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 173329

Ion	Ratio	Lower	Upper
83	100		
55	82.0	66.4	99.6
98	49.6	38.1	57.1

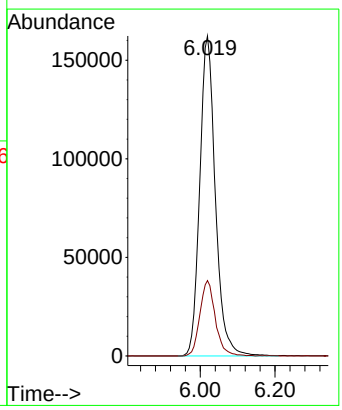


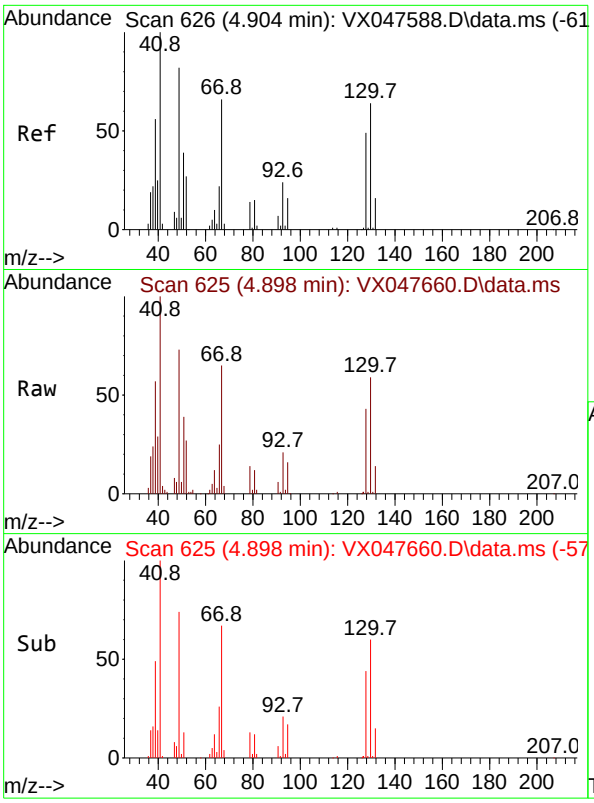


#40
Benzene
Concen: 51.478 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 78 Resp: 469978

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2



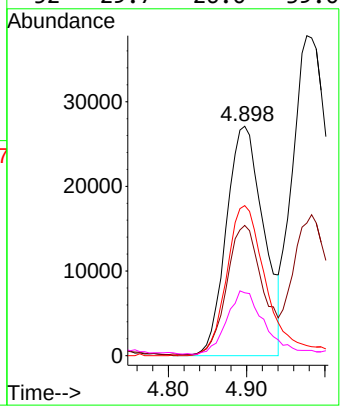


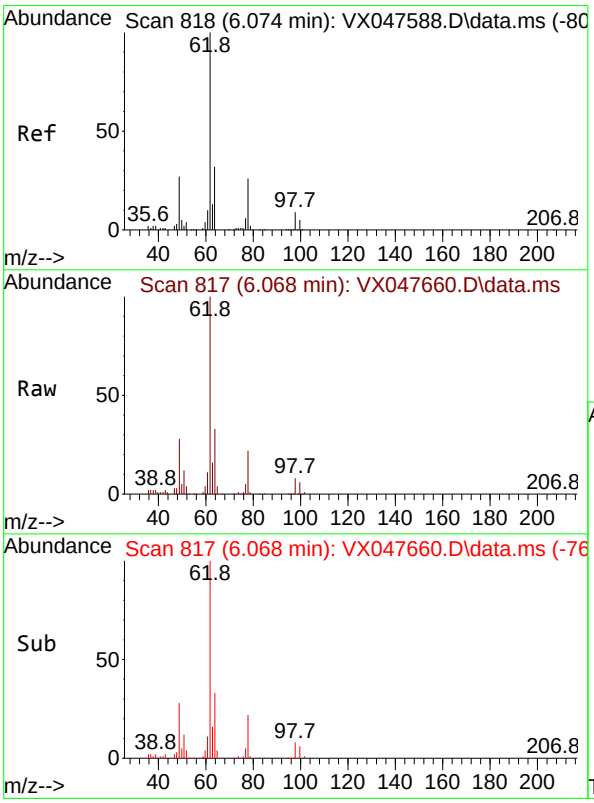
#41
Methacrylonitrile
Concen: 54.019 ug/l
RT: 4.898 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 89756

Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.3	64.9
67	70.9	58.6	87.8
52	29.7	26.0	39.0

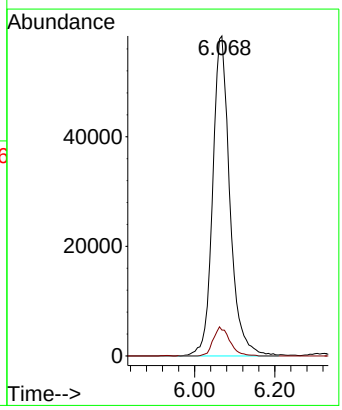


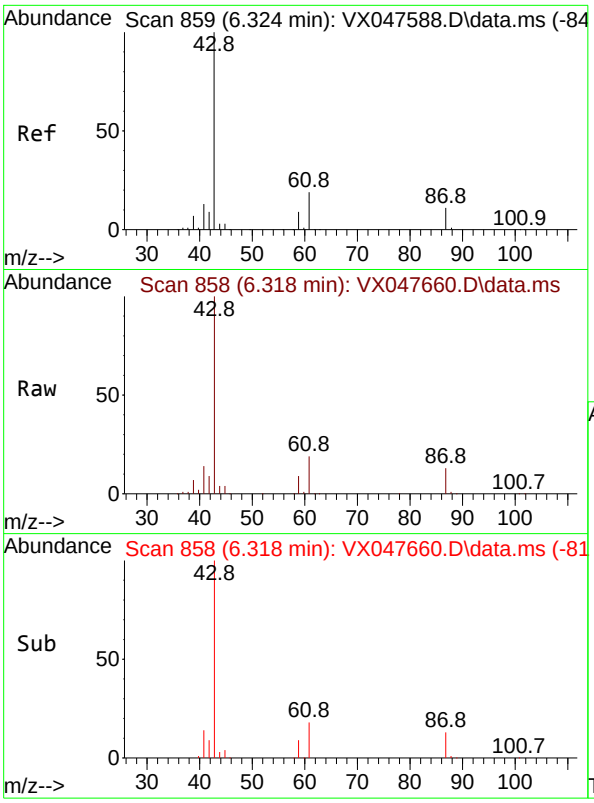


#42
1,2-Dichloroethane
Concen: 50.041 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 62 Resp: 173829

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.0



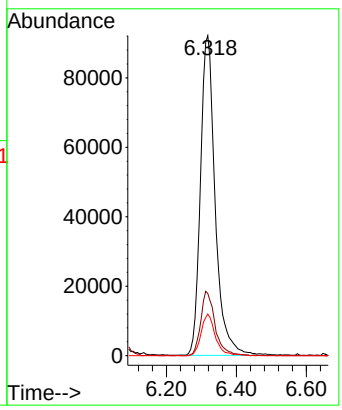


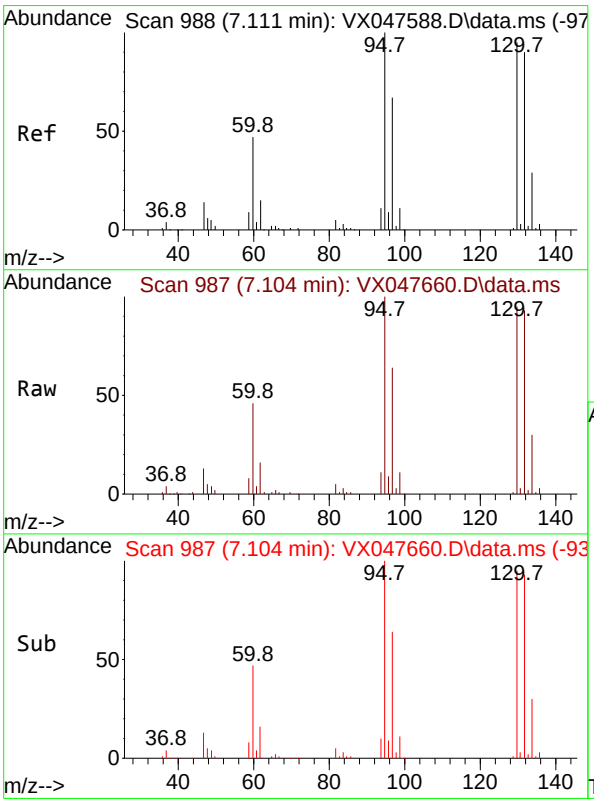
#43
Isopropyl Acetate
Concen: 51.124 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 269858

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.2	22.8
87	12.5	9.6	14.4

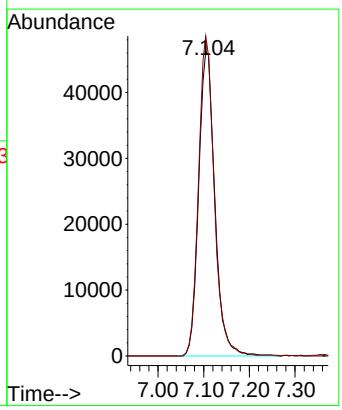


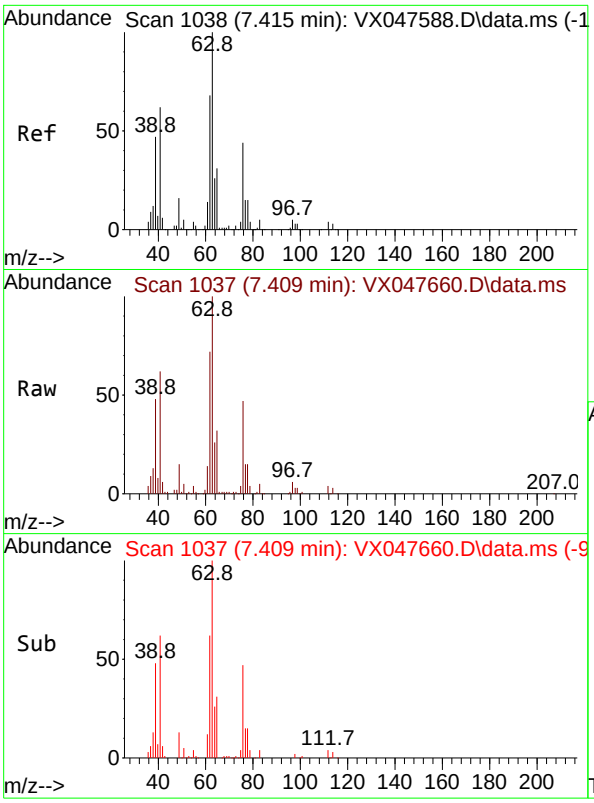


#44
Trichloroethene
Concen: 51.491 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:130 Resp: 113653

Ion	Ratio	Lower	Upper
130	100		
95	105.1	0.0	210.8



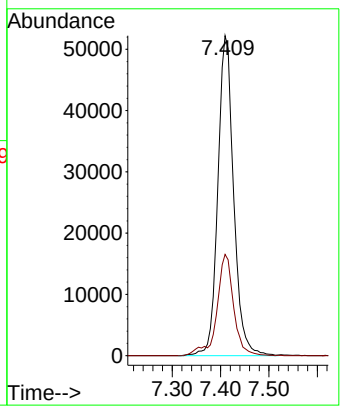


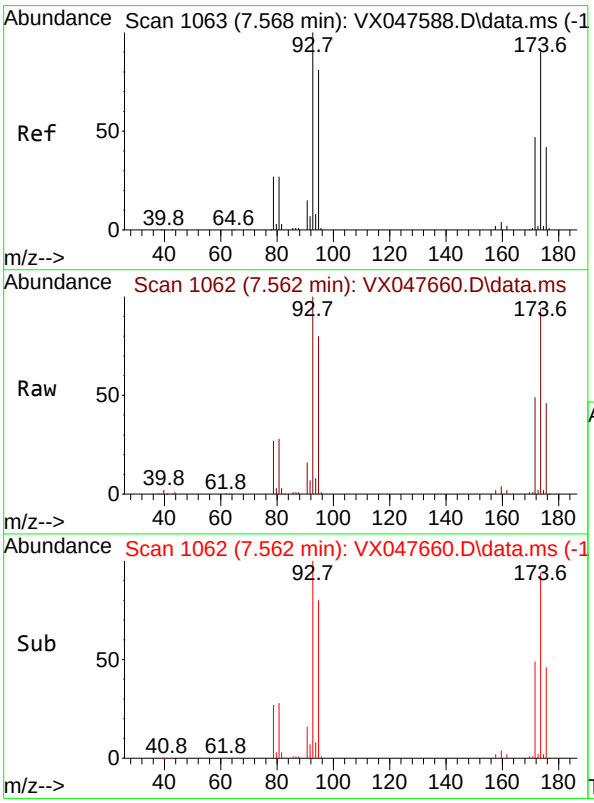
#45
1,2-Dichloropropane
Concen: 50.706 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 118540

Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.7	37.1

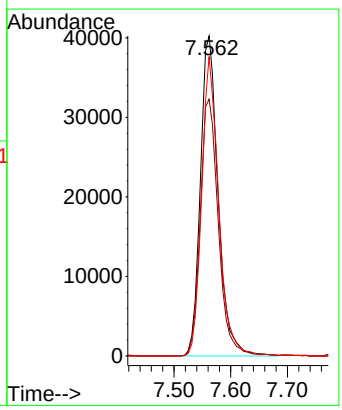


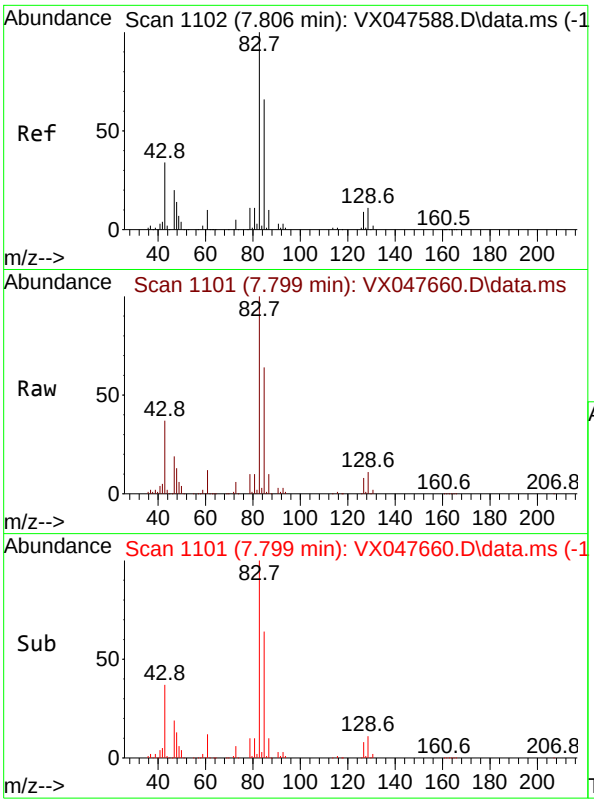


#46
Dibromomethane
Concen: 51.314 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 93 Resp: 87295

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.0	97.6
174	90.0	71.6	107.4



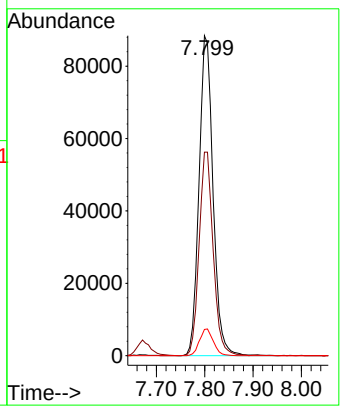


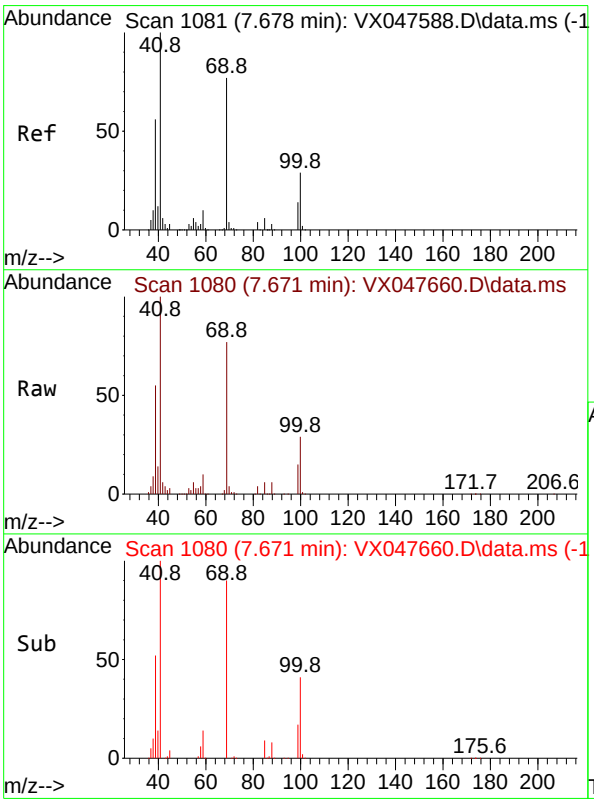
#47
Bromodichloromethane
Concen: 50.681 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 177916

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.5	78.7
127	8.2	6.9	10.3

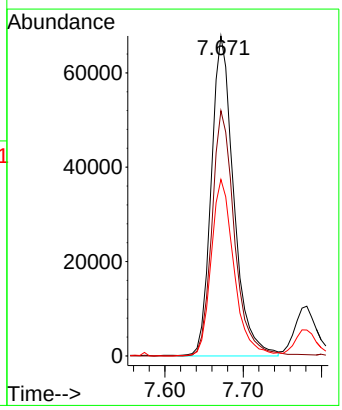


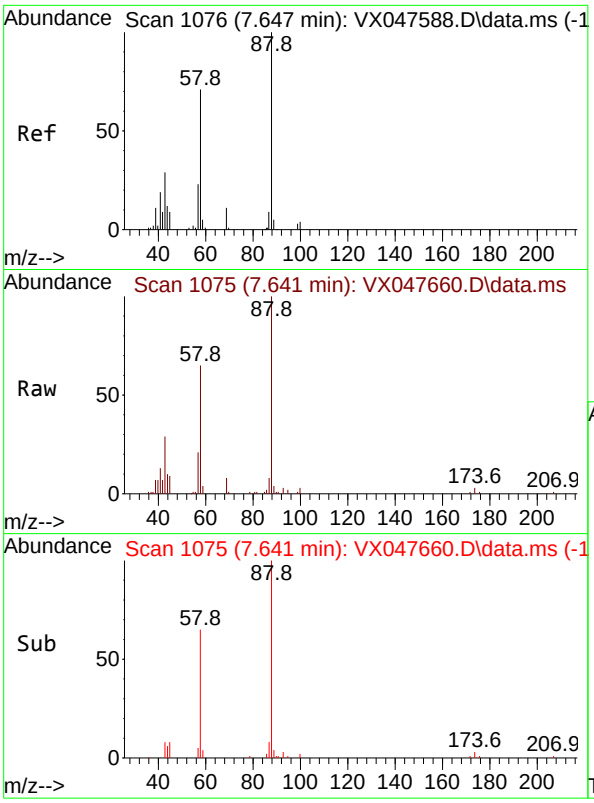


#48
Methyl methacrylate
Concen: 51.542 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 41 Resp: 135518

Ion	Ratio	Lower	Upper
41	100		
69	77.2	61.4	92.2
39	55.7	45.8	68.6



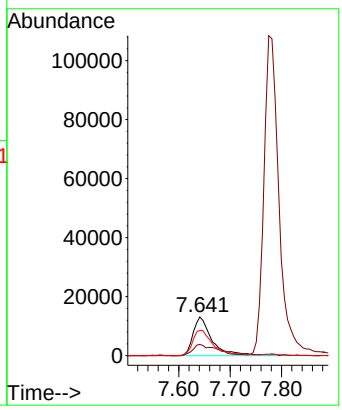


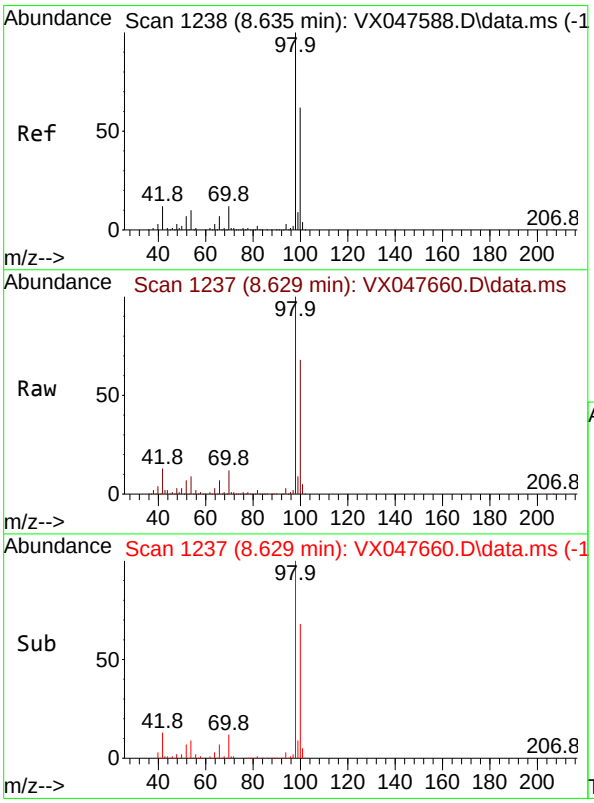
#49
1,4-Dioxane
Concen: 1265.071 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 33615

Ion	Ratio	Lower	Upper
88	100		
43	37.3	30.2	45.2
58	72.3	59.5	89.3

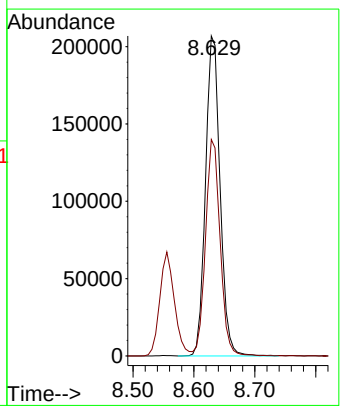


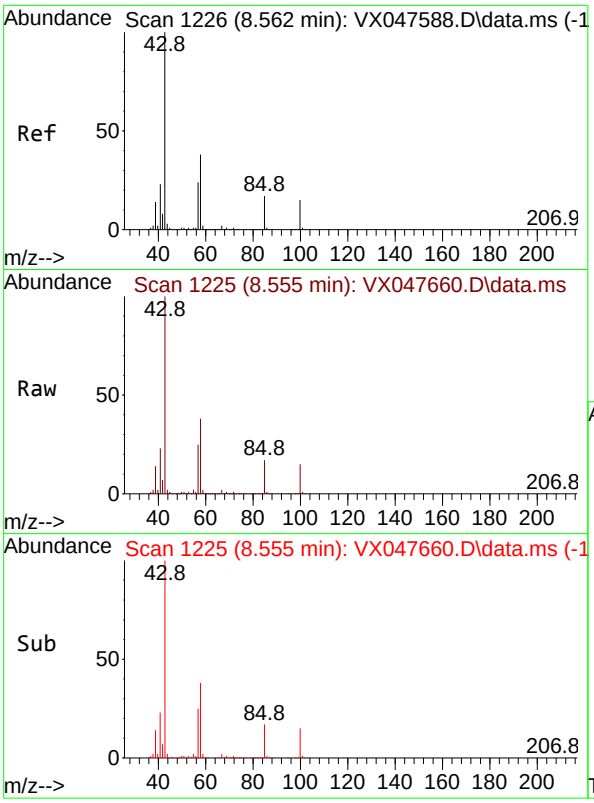


#50
Toluene-d8
Concen: 48.346 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 98 Resp: 344123

Ion	Ratio	Lower	Upper
98	100		
100	67.6	53.0	79.4



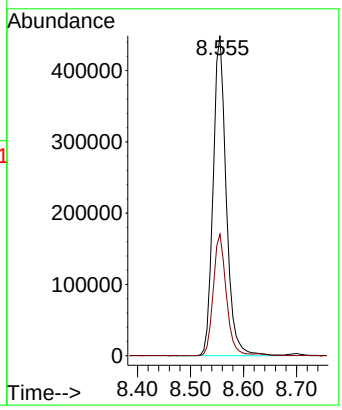


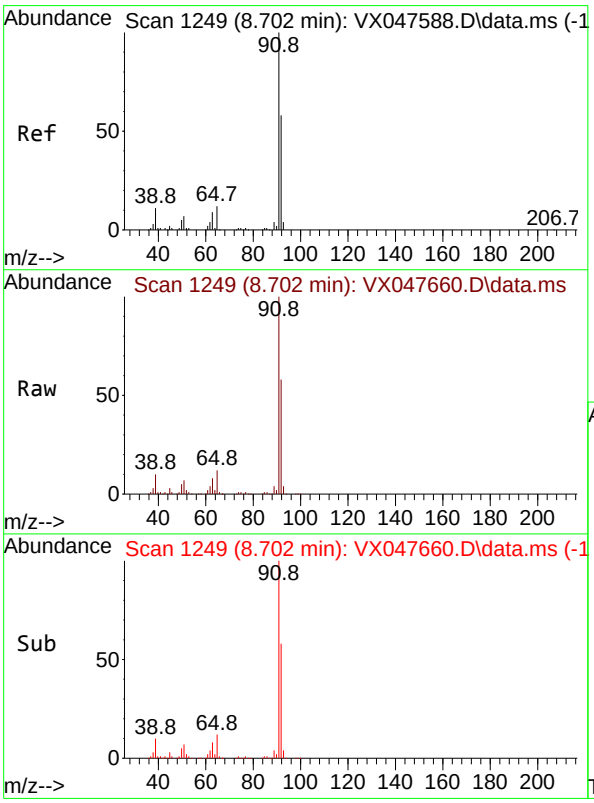
#51
4-Methyl-2-Pentanone
Concen: 263.992 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 772605

Ion	Ratio	Lower	Upper
43	100		
58	37.6	30.3	45.5

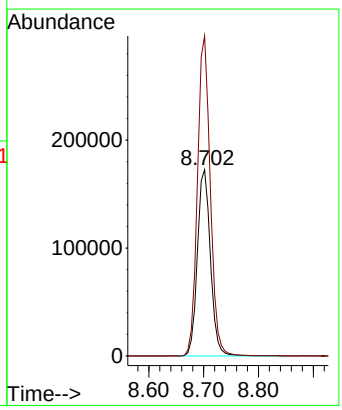


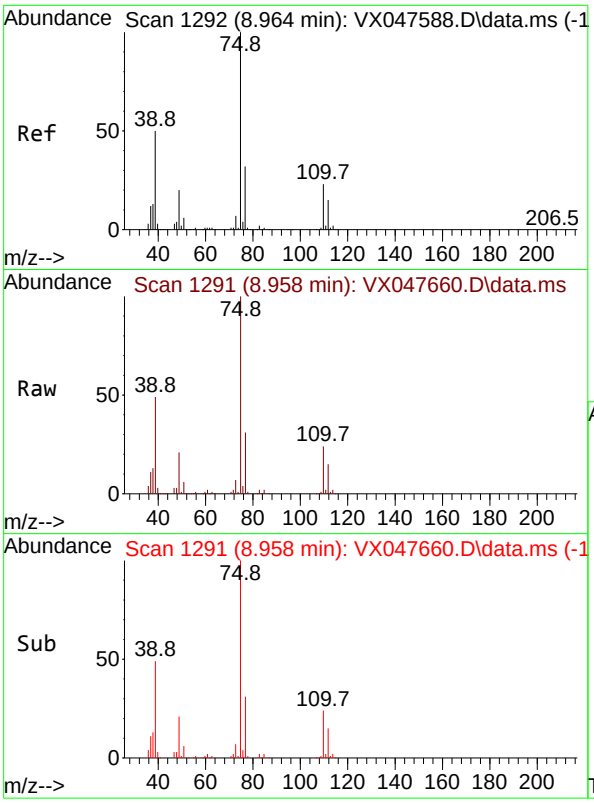


#52
Toluene
Concen: 50.732 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 92 Resp: 285358

Ion	Ratio	Lower	Upper
92	100		
91	169.5	137.1	205.7



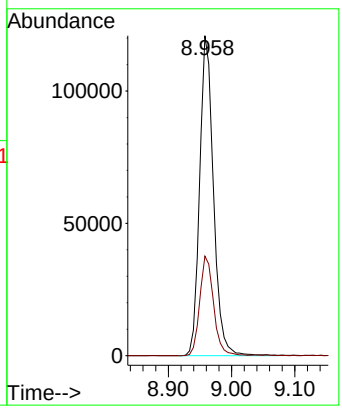


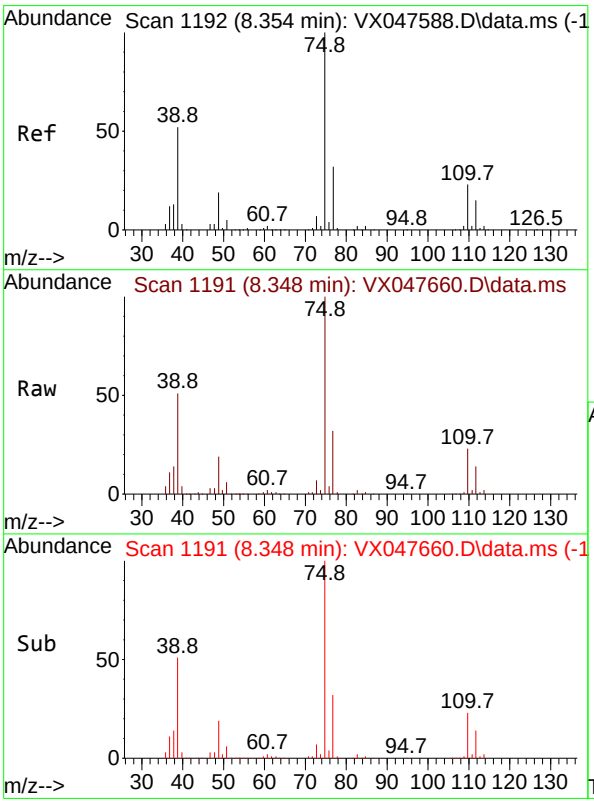
#53
t-1,3-Dichloropropene
Concen: 51.420 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 184125

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.2

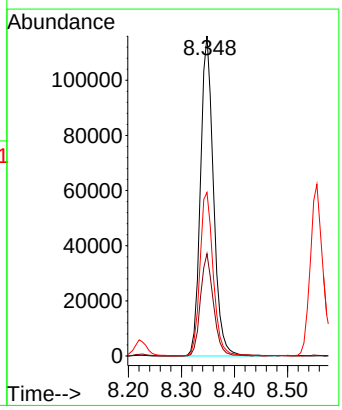


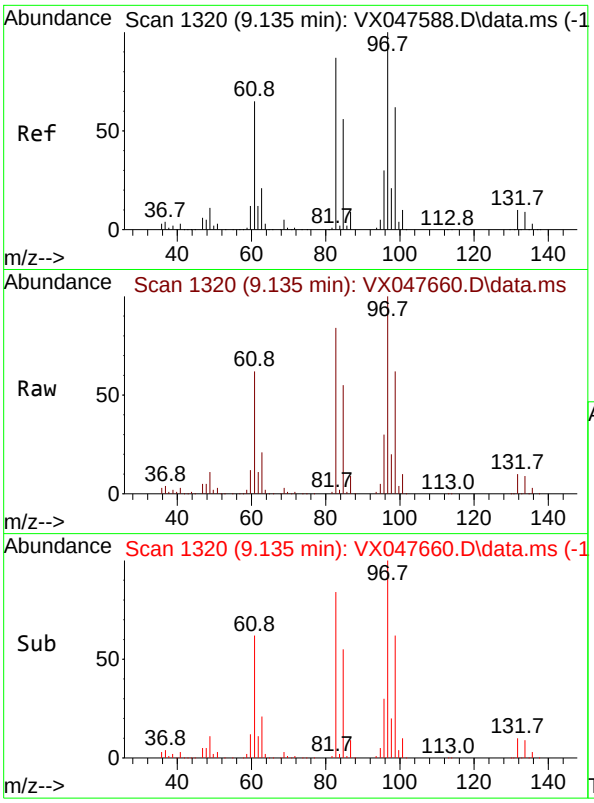


#54
cis-1,3-Dichloropropene
Concen: 51.767 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 198129

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.8	38.6
39	51.0	41.4	62.2



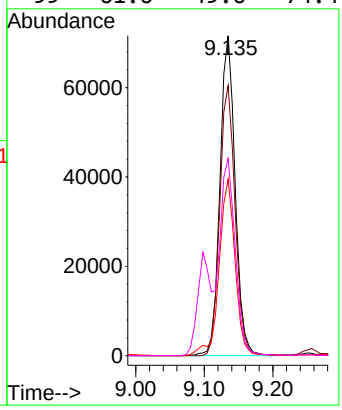


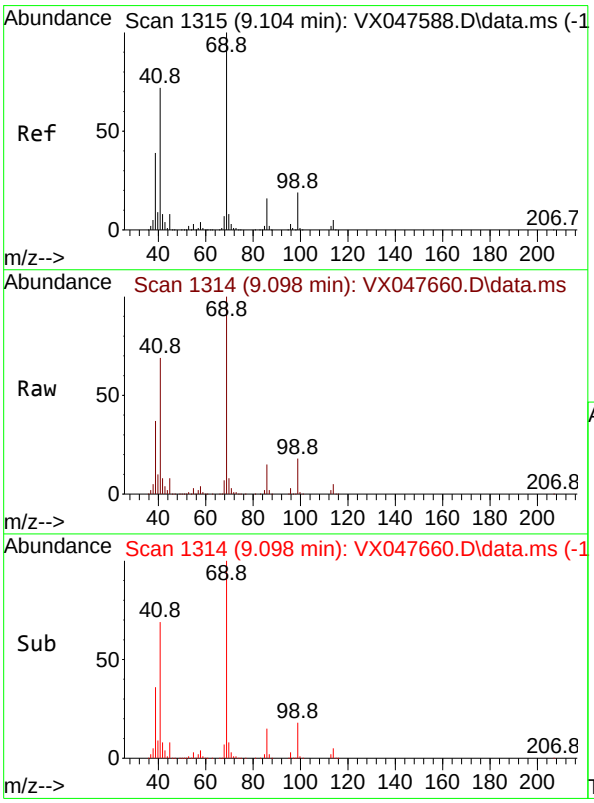
#55
1,1,2-Trichloroethane
Concen: 50.755 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 110081

Ion	Ratio	Lower	Upper
97	100		
83	84.4	69.6	104.4
85	55.2	45.0	67.6
99	61.6	49.6	74.4

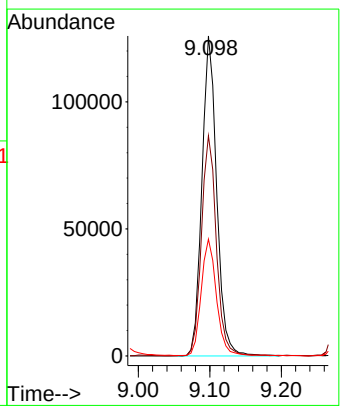


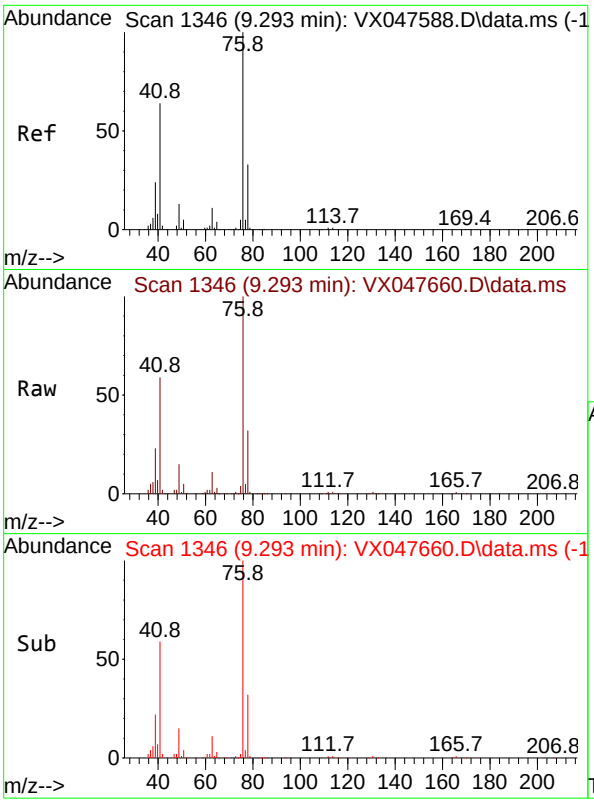


#56
Ethyl methacrylate
Concen: 53.155 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 69 Resp: 181056

Ion	Ratio	Lower	Upper
69	100		
41	69.5	58.6	87.8
39	37.3	31.5	47.3



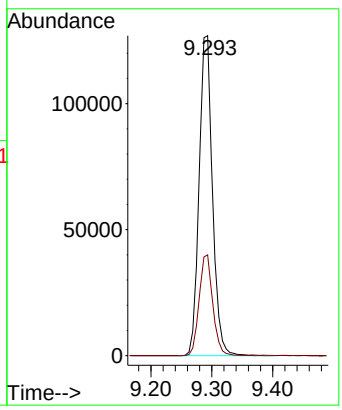


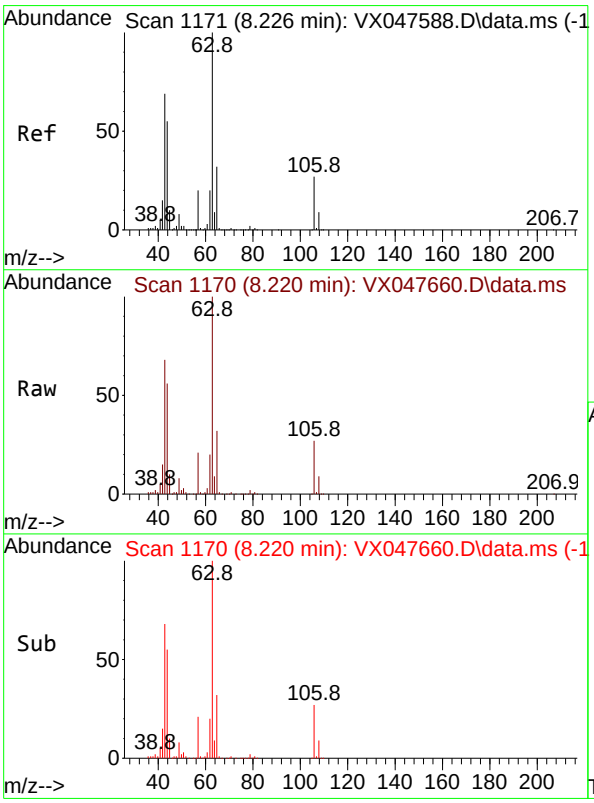
#57
1,3-Dichloropropane
Concen: 52.043 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 193901

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.2	39.4

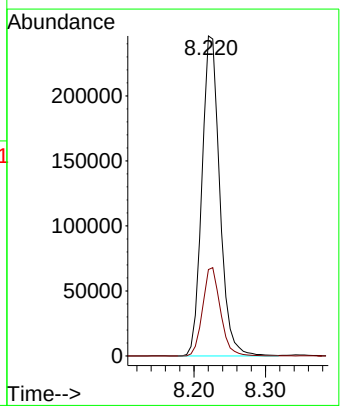


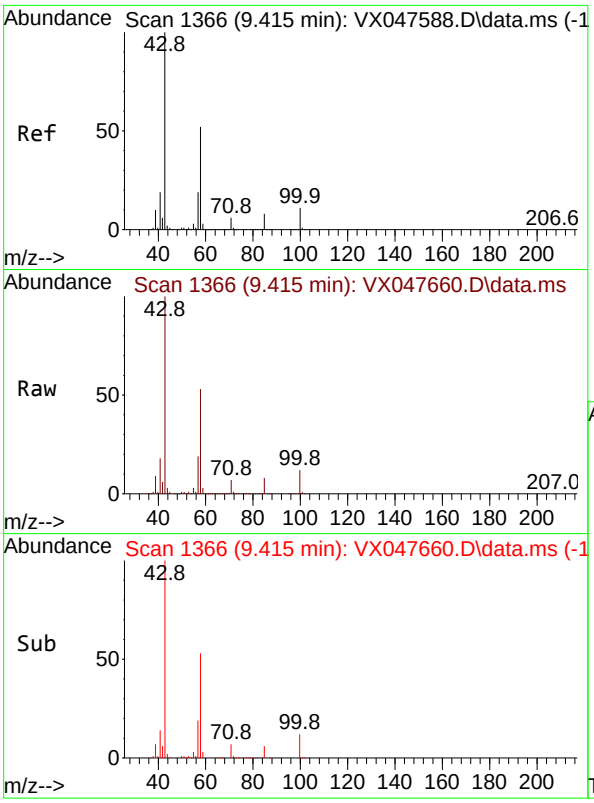


#58
2-Chloroethyl Vinyl ether
Concen: 261.332 ug/l
RT: 8.220 min Scan# 1170
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 63 Resp: 426594

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9



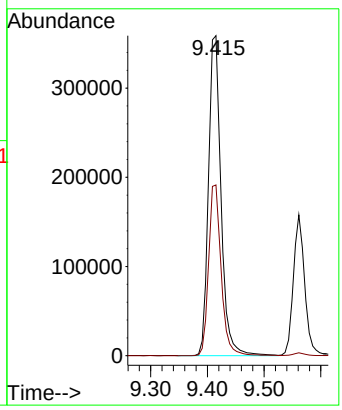


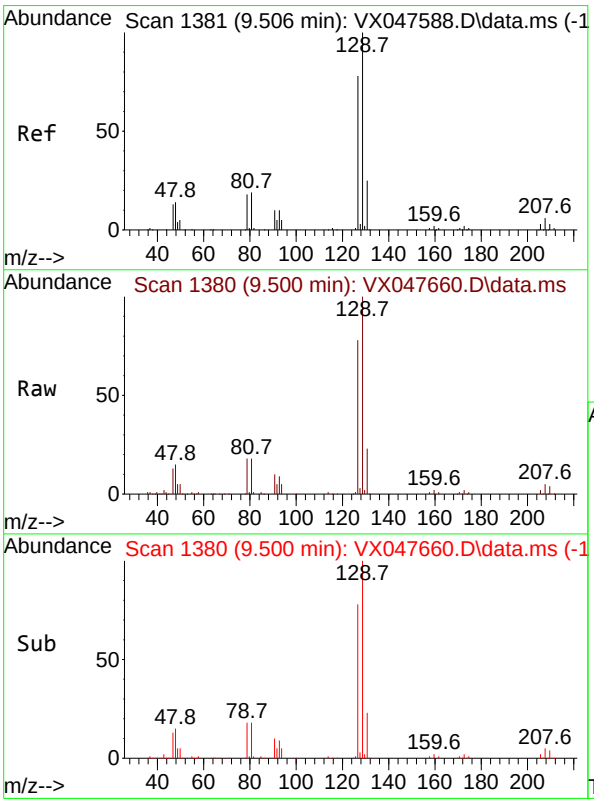
#59
2-Hexanone
Concen: 262.497 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 551745

Ion	Ratio	Lower	Upper
43	100		
58	53.3	26.1	78.2

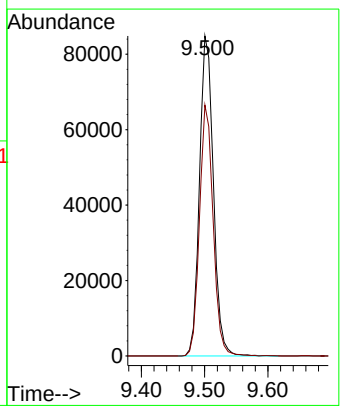


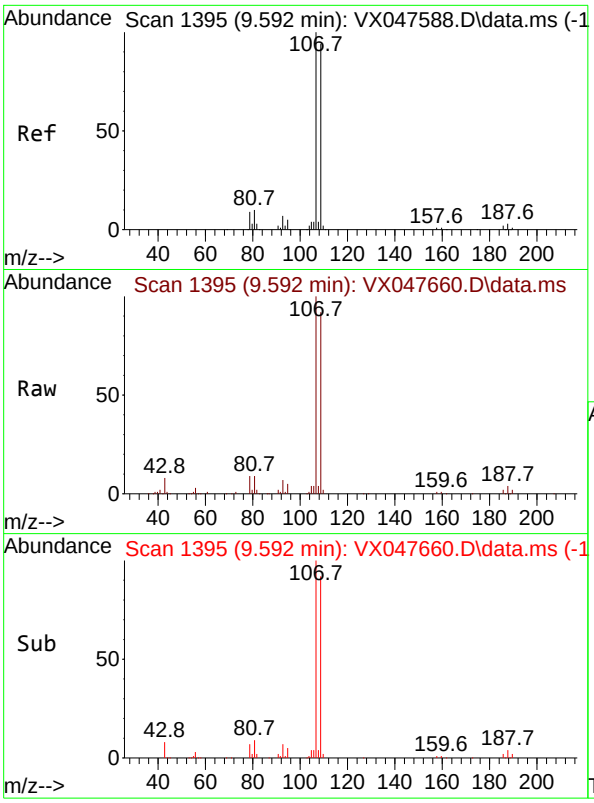


#60
Dibromochloromethane
Concen: 51.934 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:129 Resp: 129786

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.4	115.2



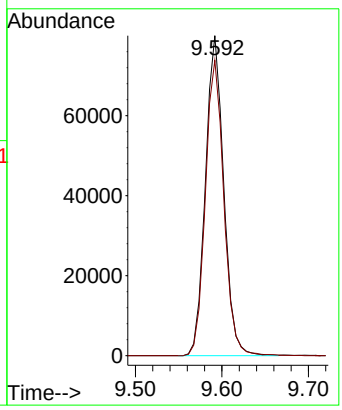


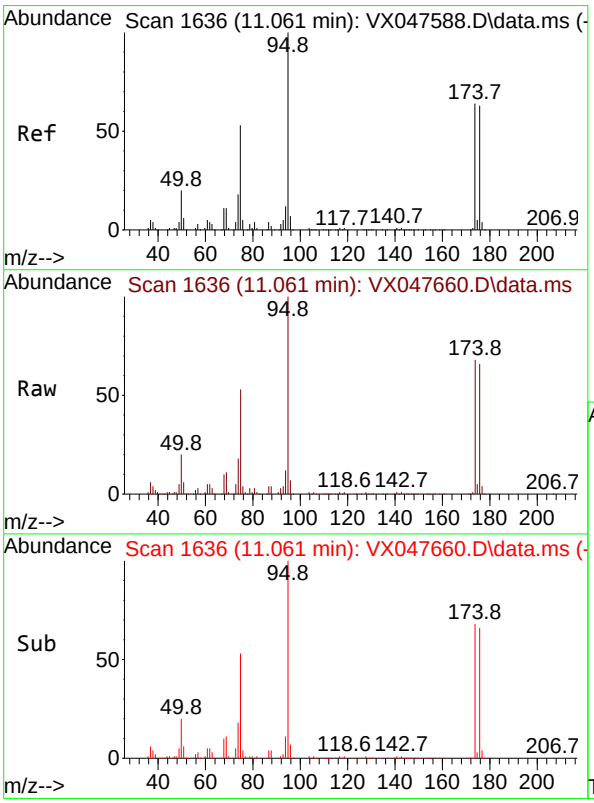
#61
1,2-Dibromoethane
Concen: 53.110 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 117326

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.3	112.9

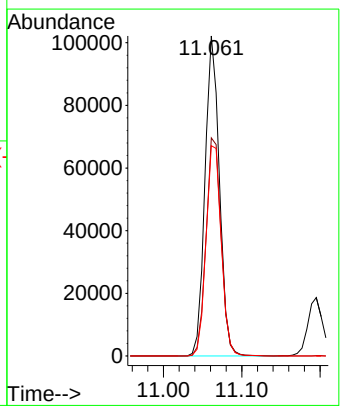


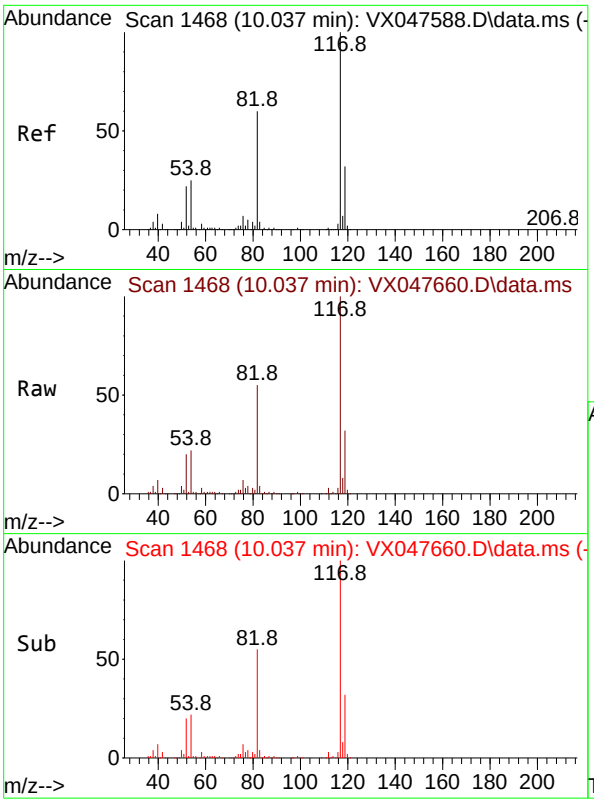


#62
4-Bromofluorobenzene
Concen: 48.202 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 95 Resp: 130212

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	141.6
176	69.3	0.0	138.4



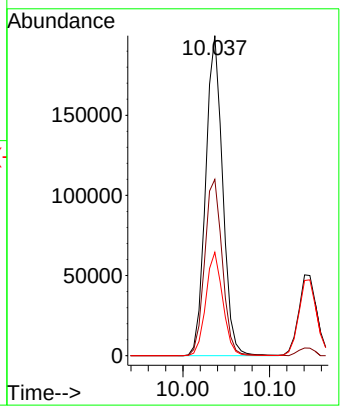


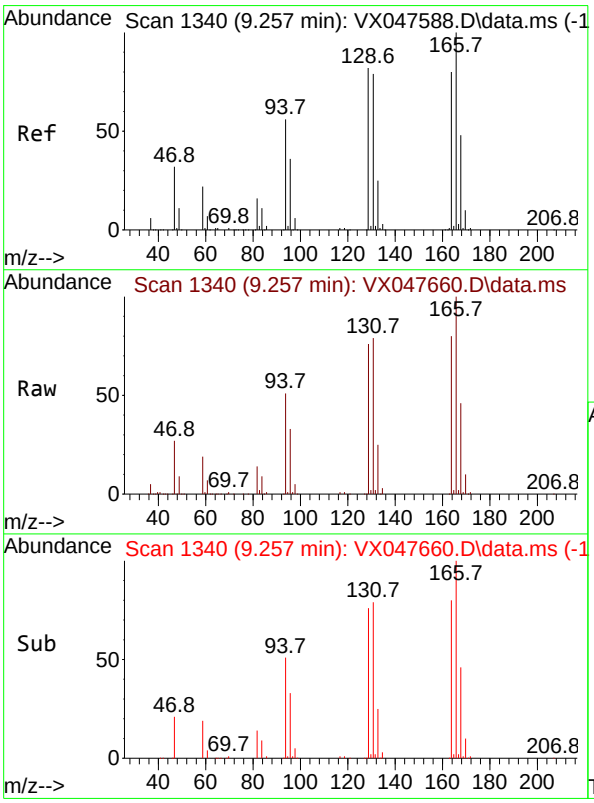
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 272268

Ion	Ratio	Lower	Upper
117	100		
82	55.1	47.8	71.6
119	32.3	25.2	37.8

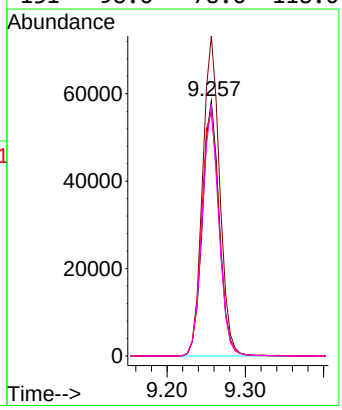


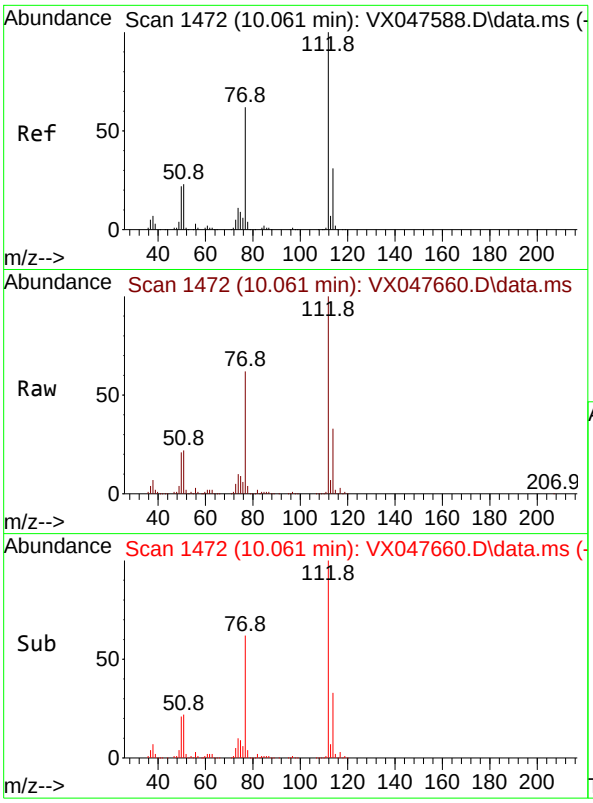


#64
Tetrachloroethene
Concen: 48.951 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:164 Resp: 86883

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.2	150.2
129	95.4	81.8	122.6
131	98.6	78.6	118.0



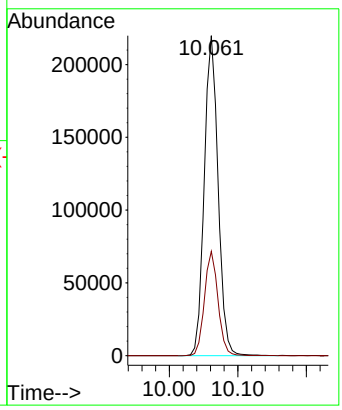


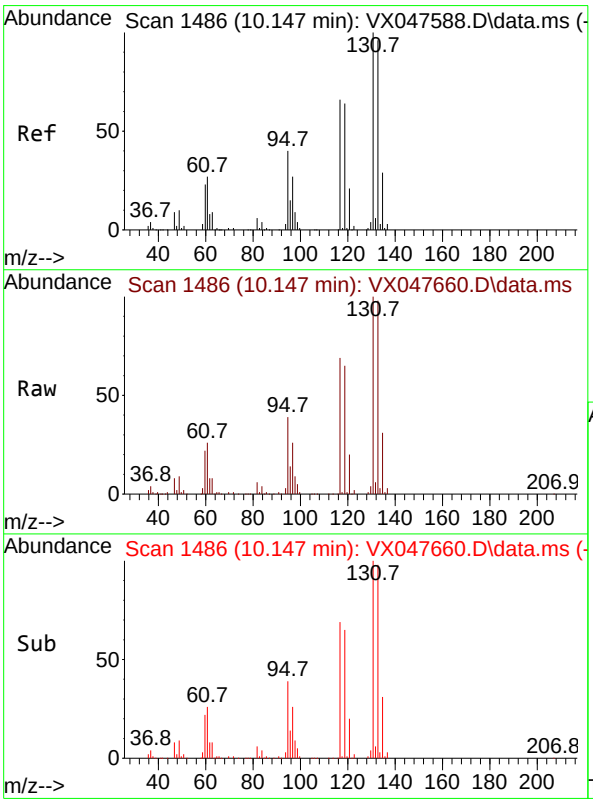
#65
Chlorobenzene
Concen: 49.899 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 308645

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.1	37.7

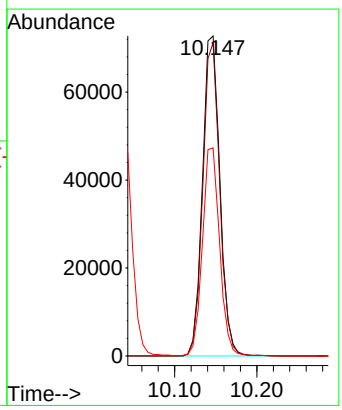


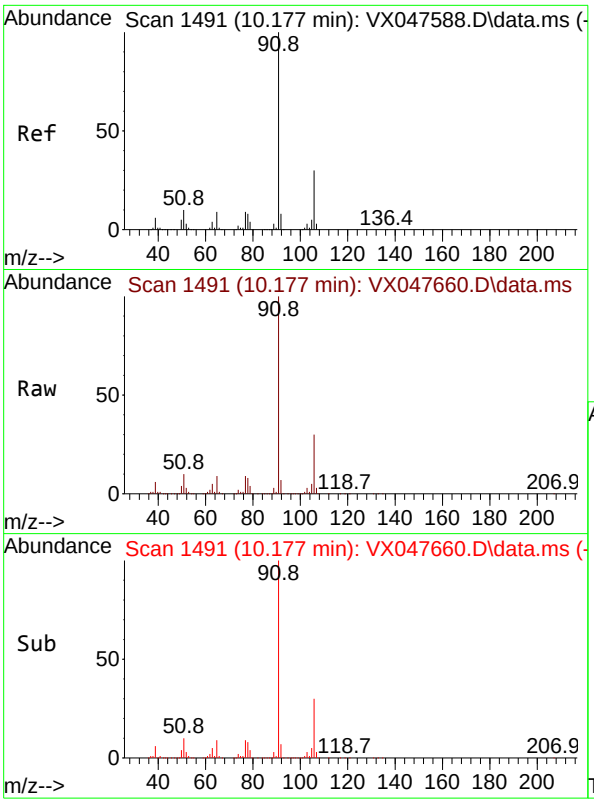


#66
1,1,1,2-Tetrachloroethane
Concen: 50.145 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:131 Resp: 107031

Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.3	142.0
119	64.2	32.0	96.0



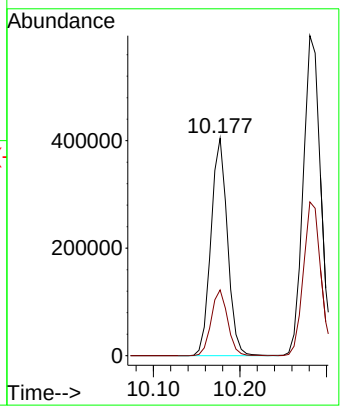


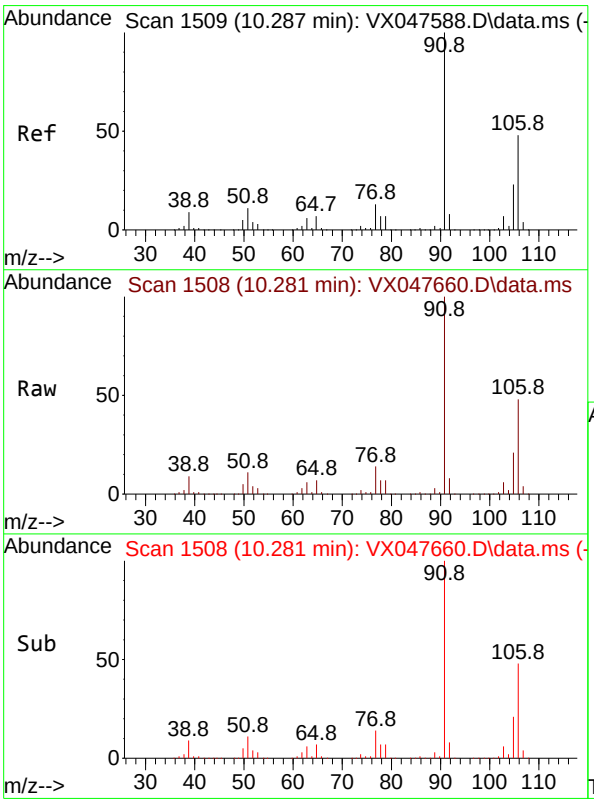
#67
Ethyl Benzene
Concen: 50.244 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 536224

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.3	36.5

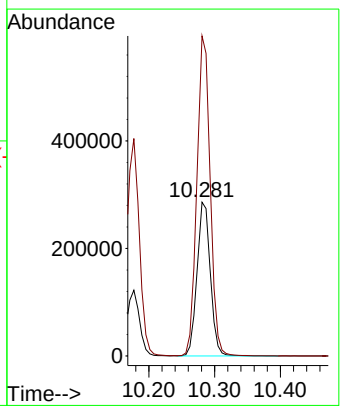


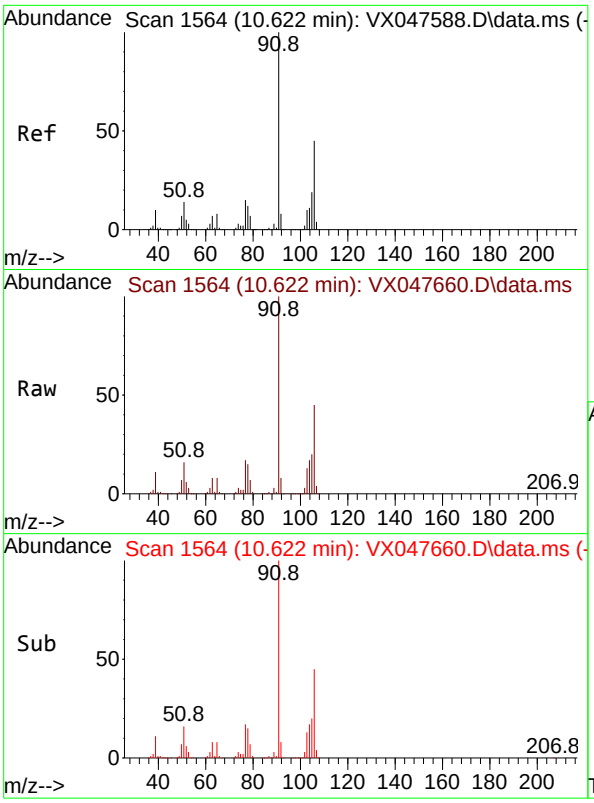


#68
m/p-Xylenes
Concen: 100.725 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:106 Resp: 400119

Ion	Ratio	Lower	Upper
106	100		
91	208.3	167.8	251.8



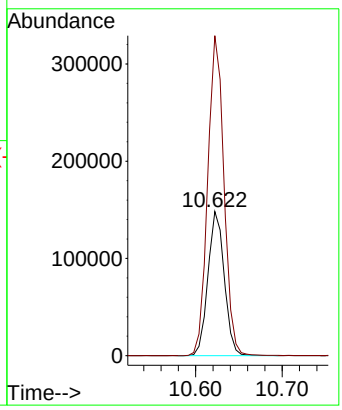


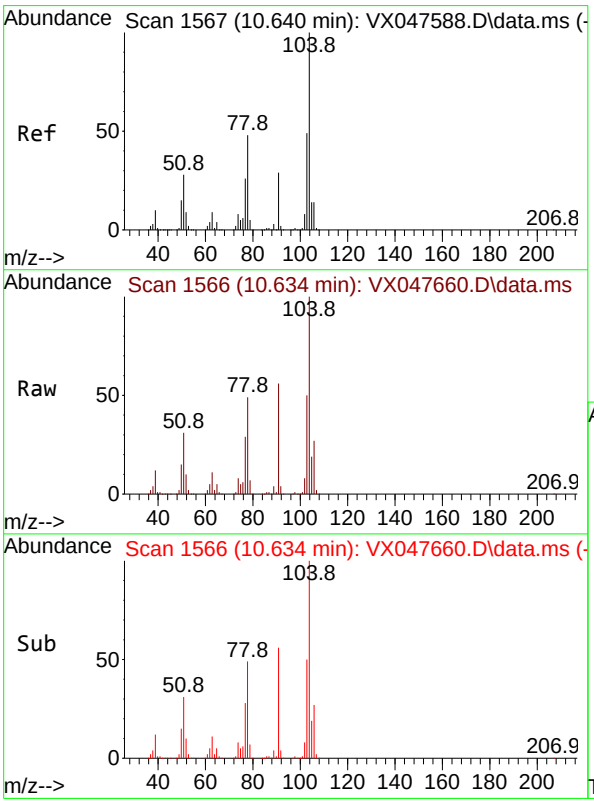
#69
o-Xylene
Concen: 50.618 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 194487

Ion	Ratio	Lower	Upper
106	100		
91	220.8	111.1	333.4

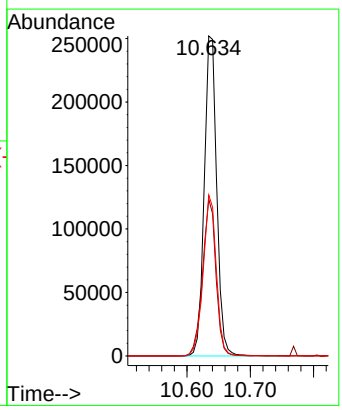


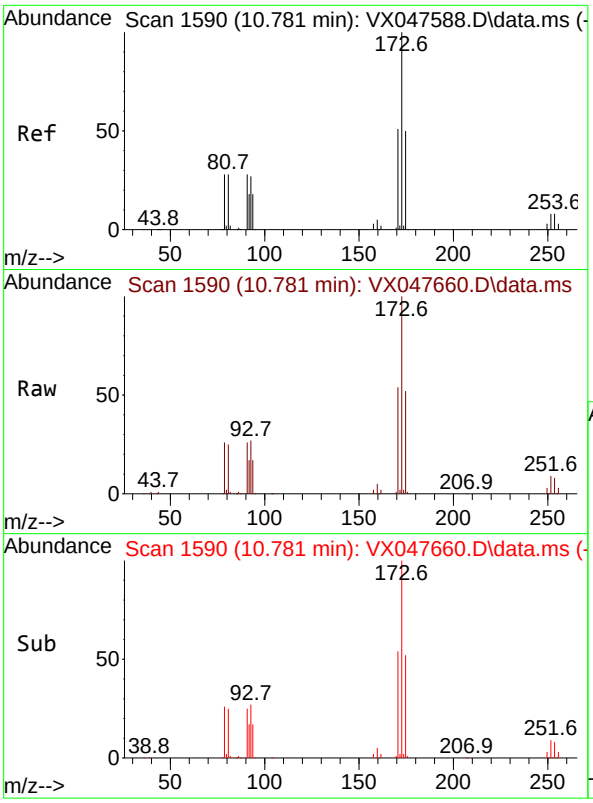


#70
Styrene
Concen: 51.440 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:104 Resp: 346312

Ion	Ratio	Lower	Upper
104	100		
78	52.4	43.1	64.7
103	53.1	43.1	64.7



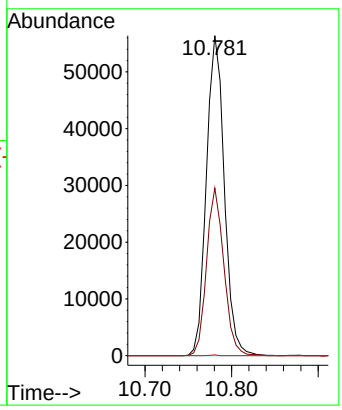


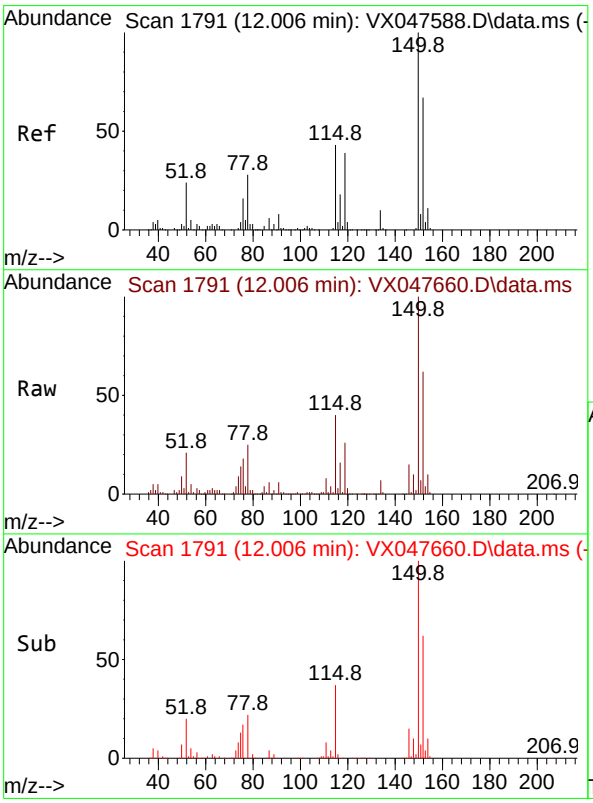
#71
Bromoform
Concen: 50.872 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 81077

Ion	Ratio	Lower	Upper
173	100		
175	50.6	24.9	74.6
254	0.1	0.1	0.1

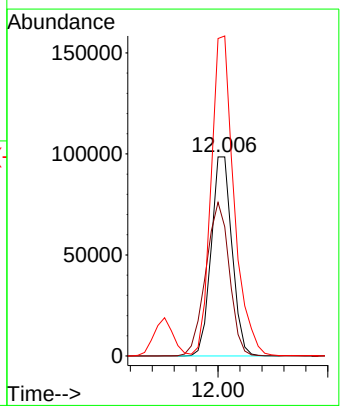


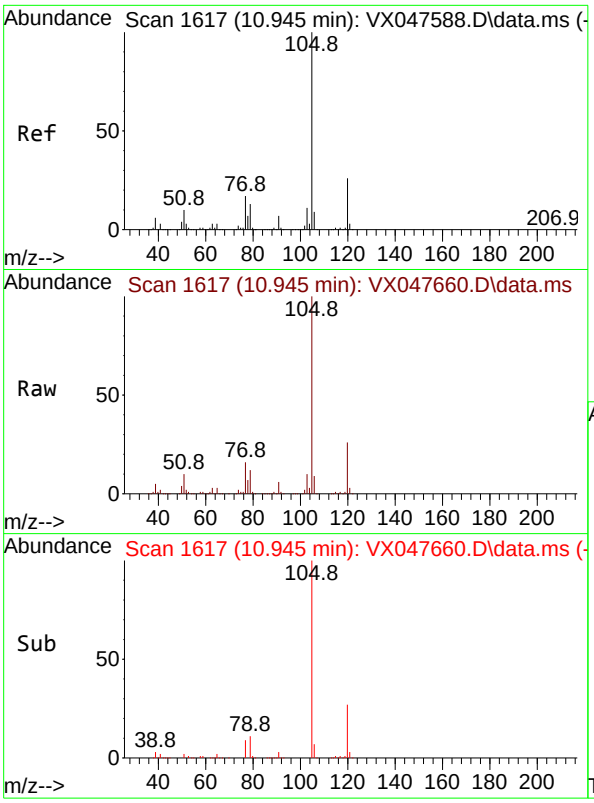


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:152 Resp: 129778

Ion	Ratio	Lower	Upper
152	100		
115	87.7	44.9	134.5
150	176.7	0.0	352.0



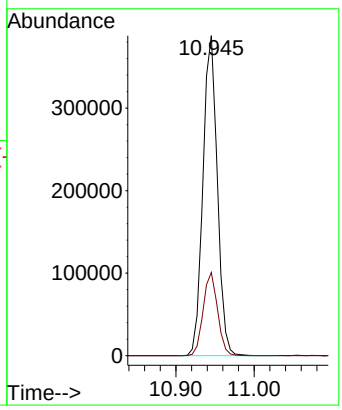


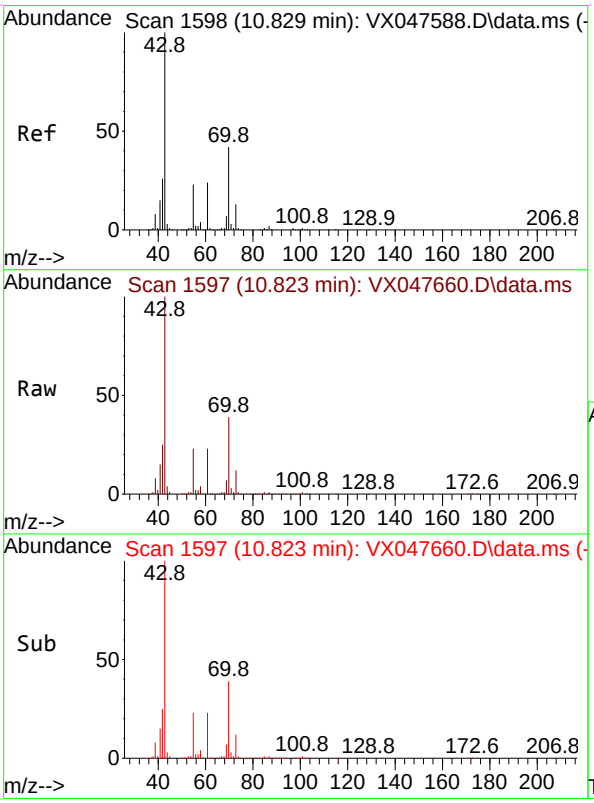
#73
Isopropylbenzene
Concen: 50.005 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 493376

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

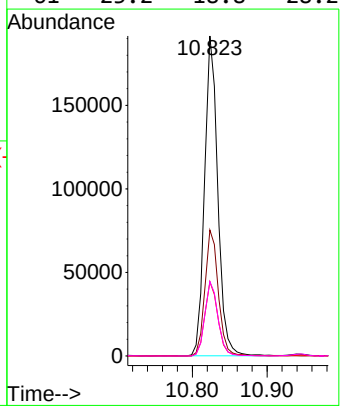


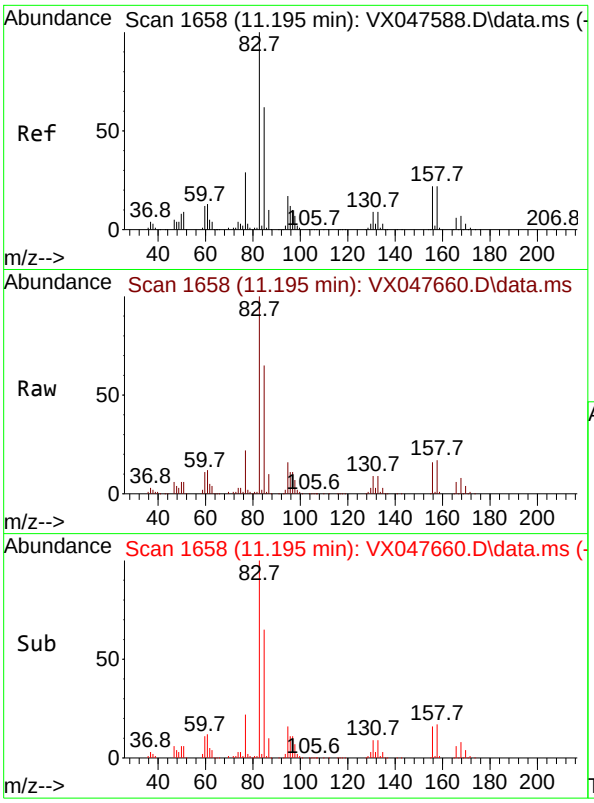


#74
N-amyl acetate
Concen: 52.208 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 43 Resp: 234901

Ion	Ratio	Lower	Upper
43	100		
70	40.1	32.0	48.0
55	23.3	18.9	28.3
61	23.2	18.8	28.2



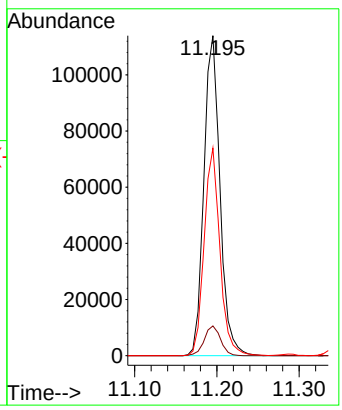


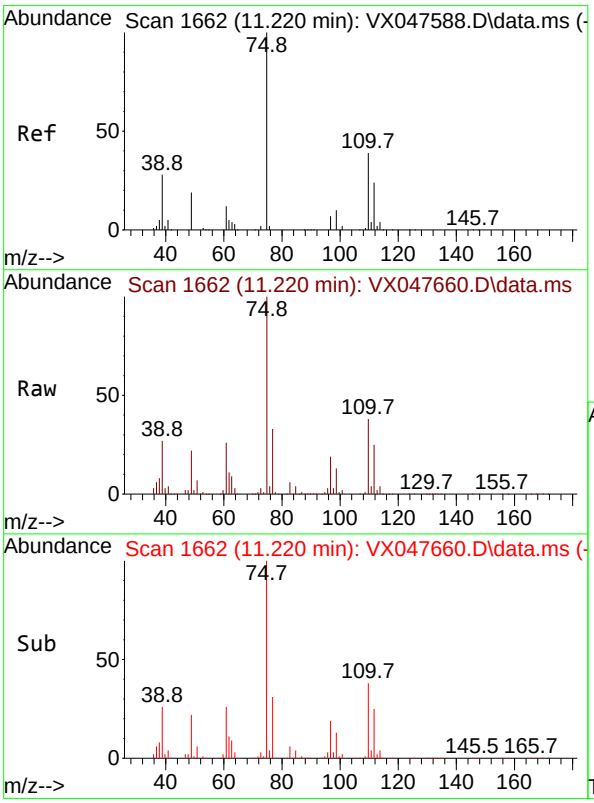
#75
1,1,2,2-Tetrachloroethane
Concen: 51.895 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 154912

Ion	Ratio	Lower	Upper
83	100		
131	9.4	5.0	14.9
85	63.6	31.6	95.0

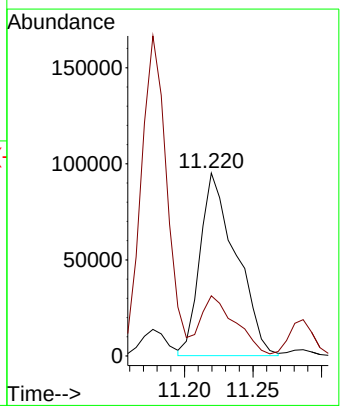


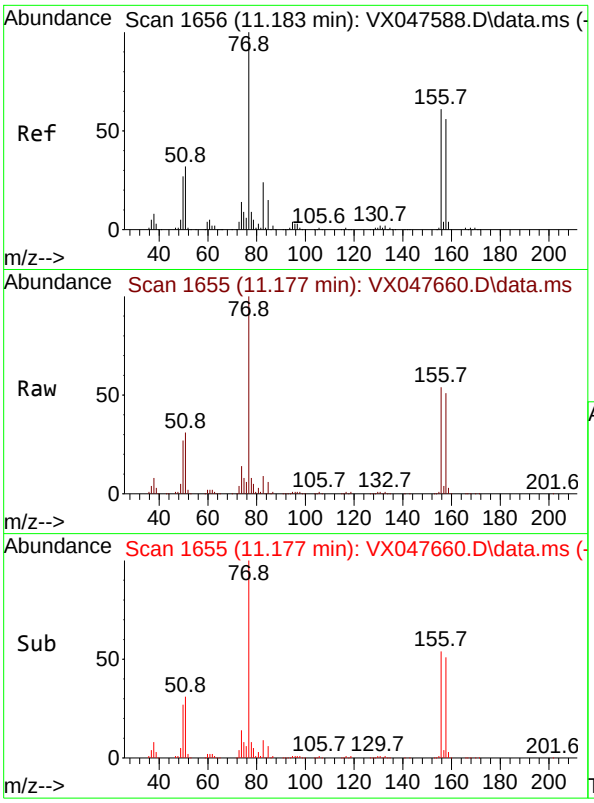


#76
1,2,3-Trichloropropane
Concen: 66.263 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 174114

Ion	Ratio	Lower	Upper
75	100		
77	32.5	18.8	56.4



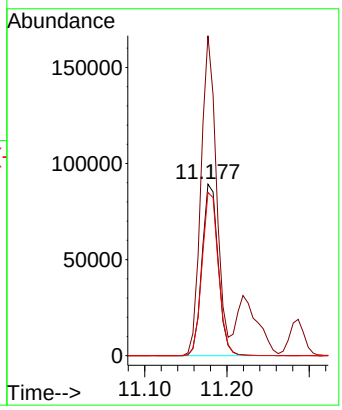


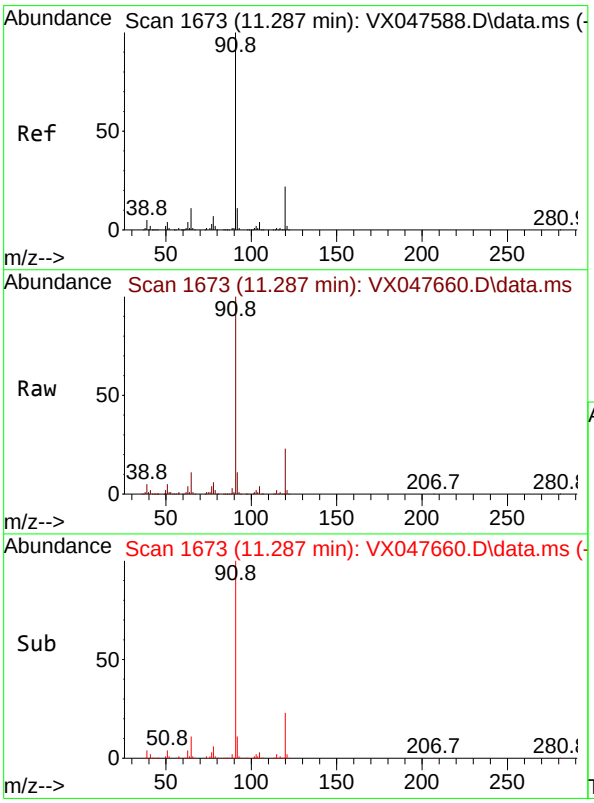
#77
Bromobenzene
Concen: 50.172 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 121922

Ion	Ratio	Lower	Upper
156	100		
77	177.6	89.7	269.1
158	96.4	47.9	143.6

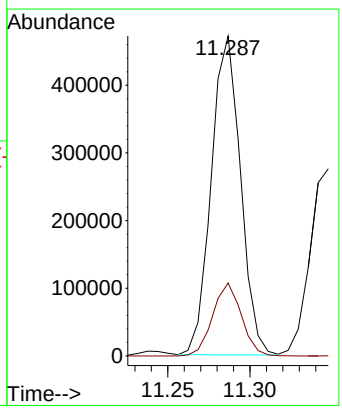


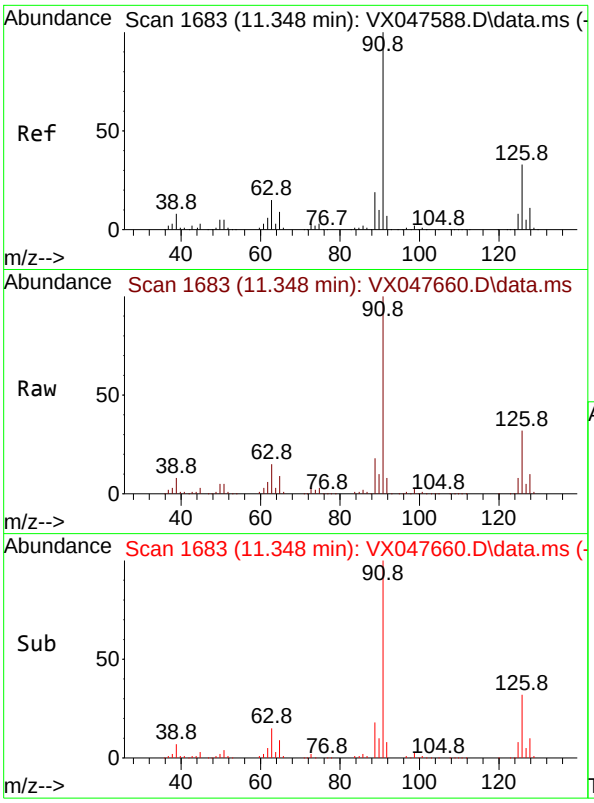


#78
n-propylbenzene
Concen: 50.018 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 91 Resp: 583388

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



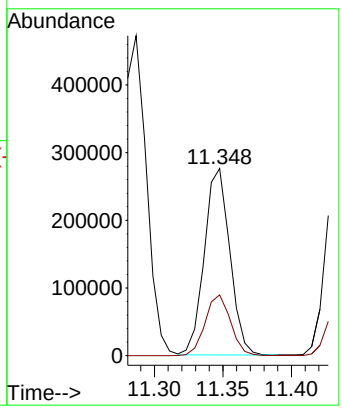


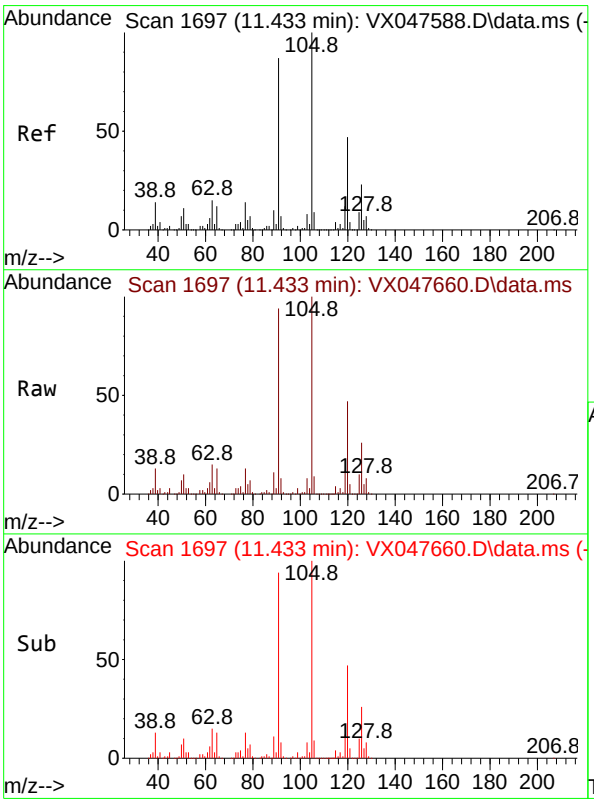
#79
2-Chlorotoluene
Concen: 49.875 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 356287

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3

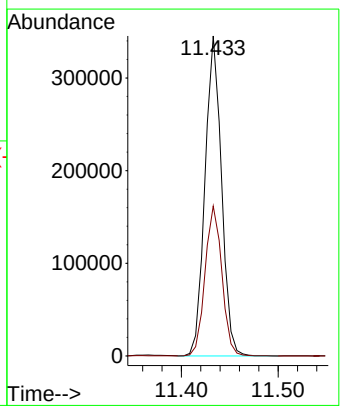


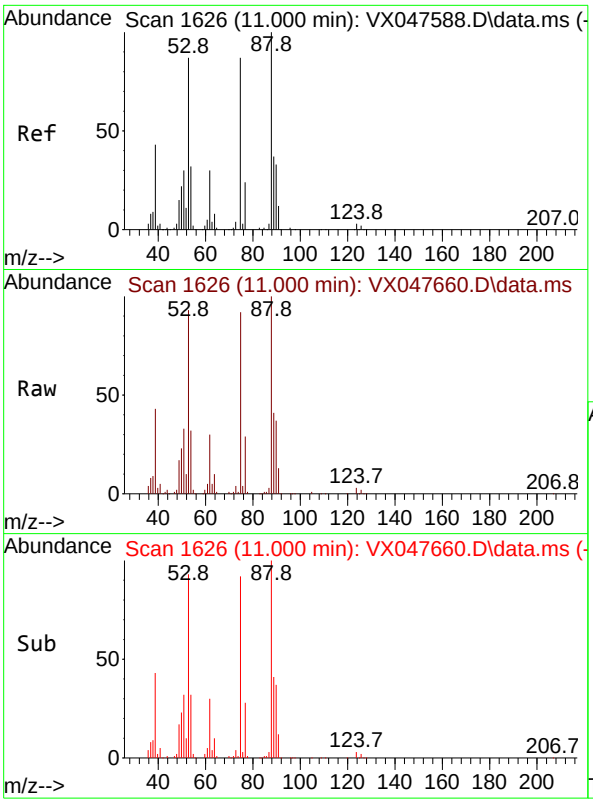


#80
1,3,5-Trimethylbenzene
Concen: 50.523 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:105 Resp: 409554

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.6	70.8



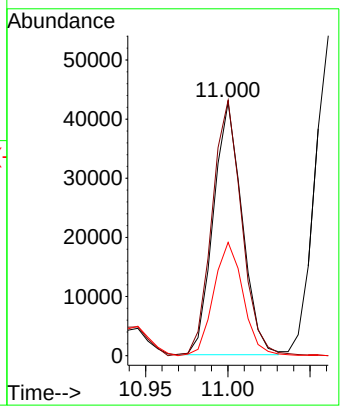


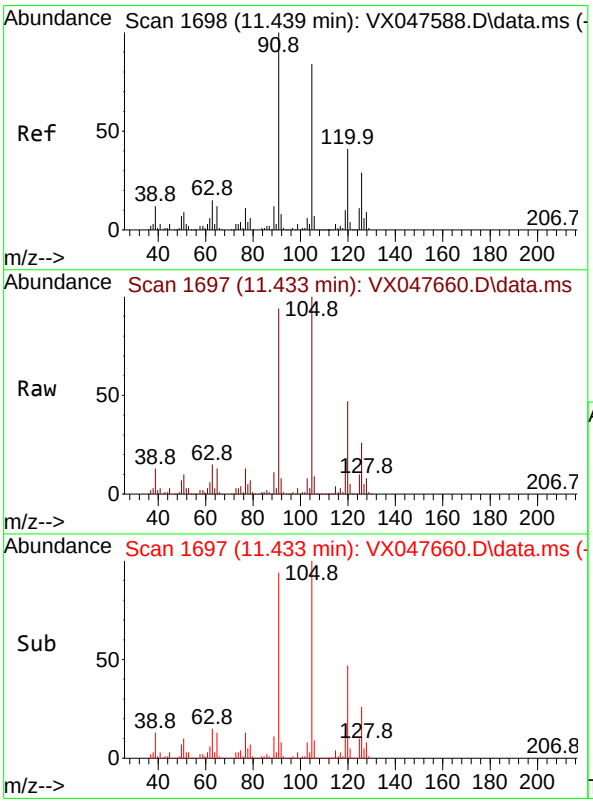
#81
trans-1,4-Dichloro-2-butene
Concen: 50.440 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 51972

Ion	Ratio	Lower	Upper
75	100		
53	104.6	83.4	125.2
89	46.1	36.3	54.5

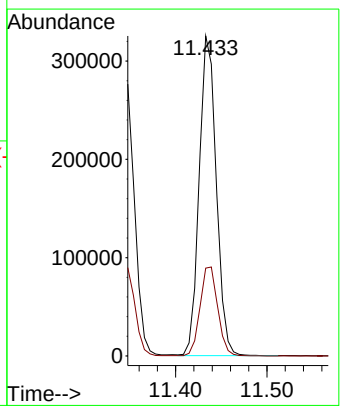


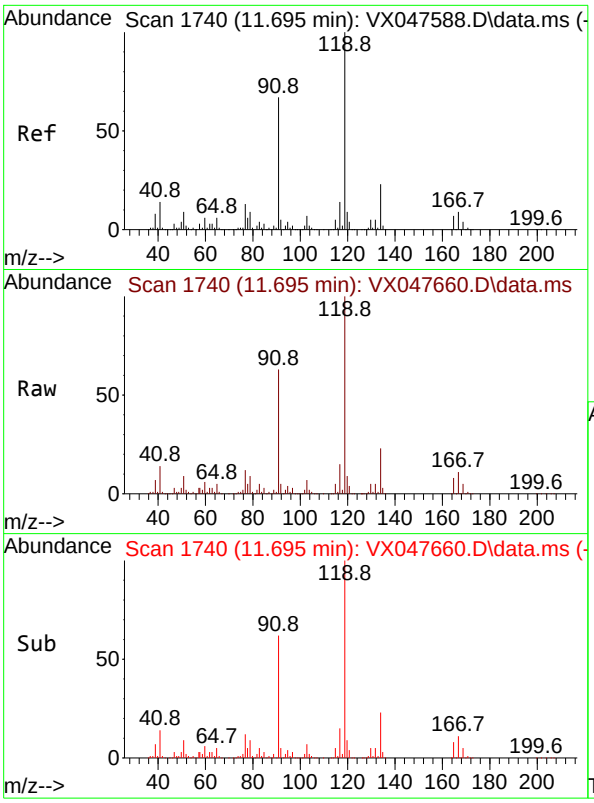


#82
4-Chlorotoluene
Concen: 49.932 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 91 Resp: 421274

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6



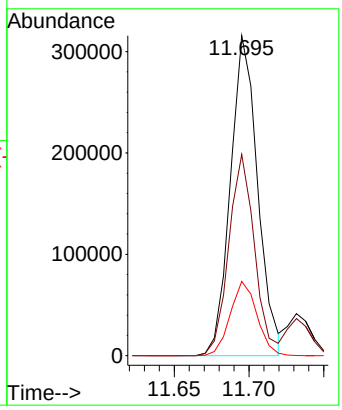


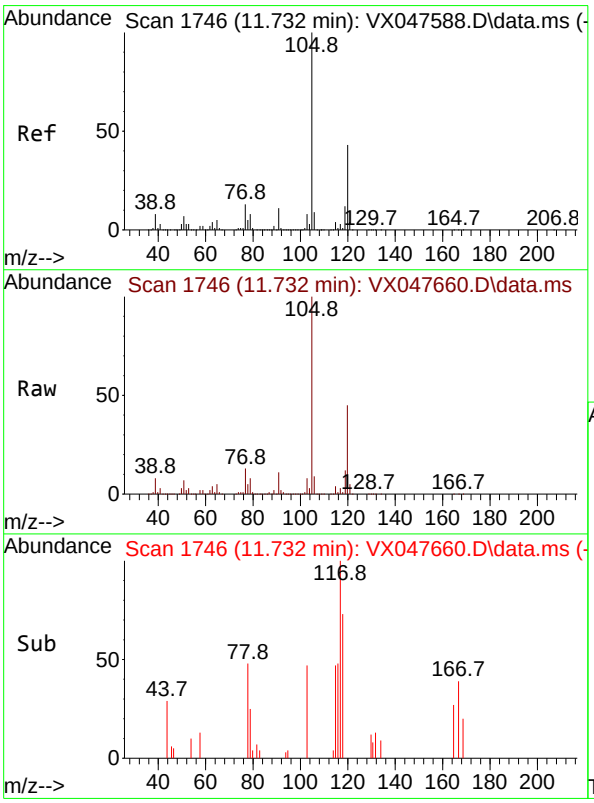
#83
tert-Butylbenzene
Concen: 48.196 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 399938

Ion	Ratio	Lower	Upper
119	100		
91	59.6	29.6	88.8
134	22.8	11.0	33.0

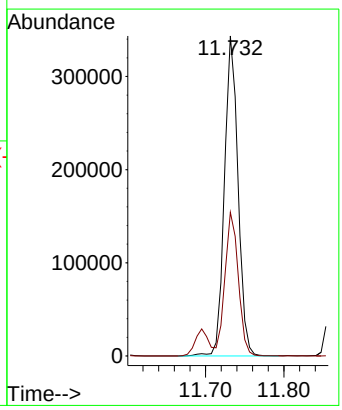


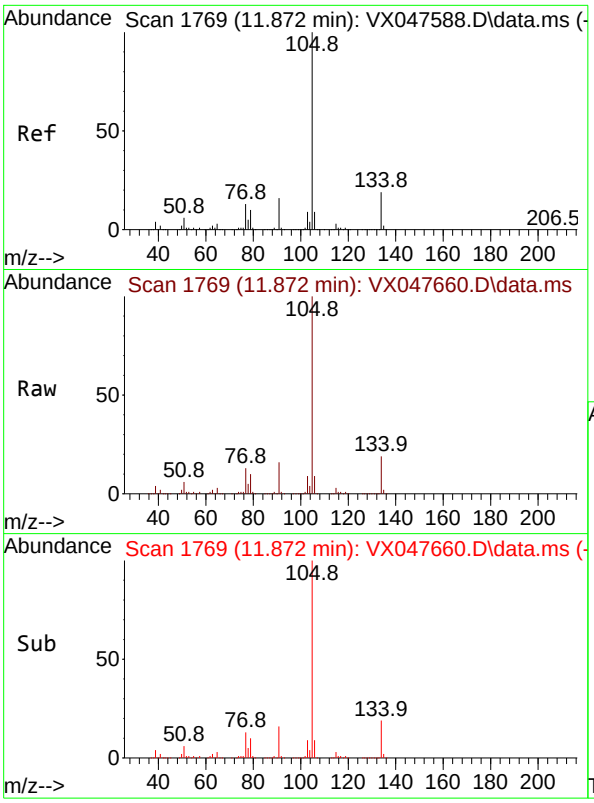


#84
1,2,4-Trimethylbenzene
Concen: 50.508 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:105 Resp: 415095

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1



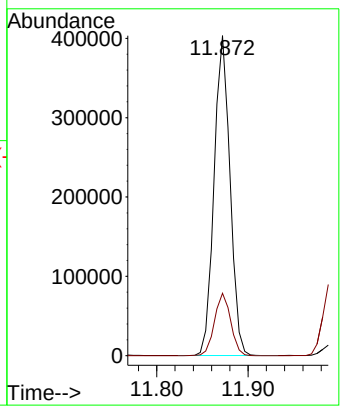


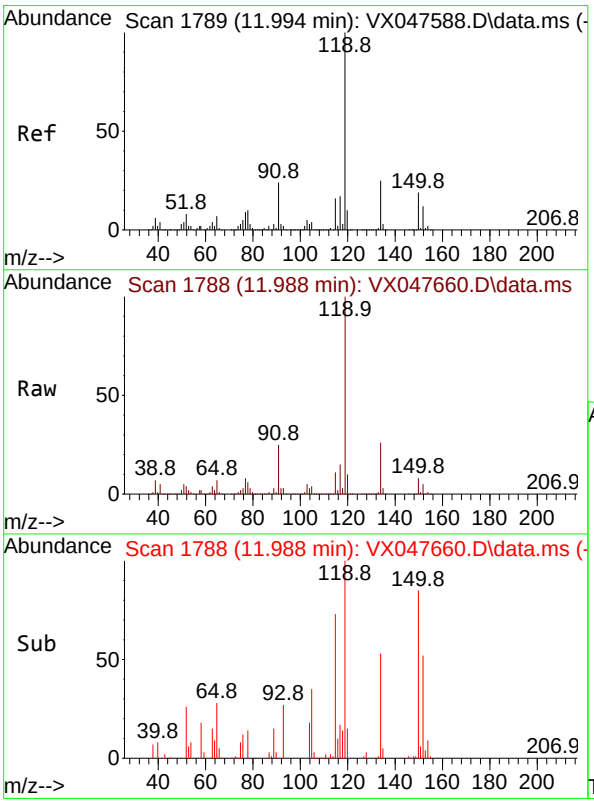
#85
sec-Butylbenzene
Concen: 49.622 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 489102

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

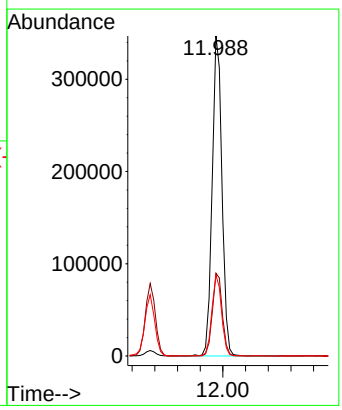


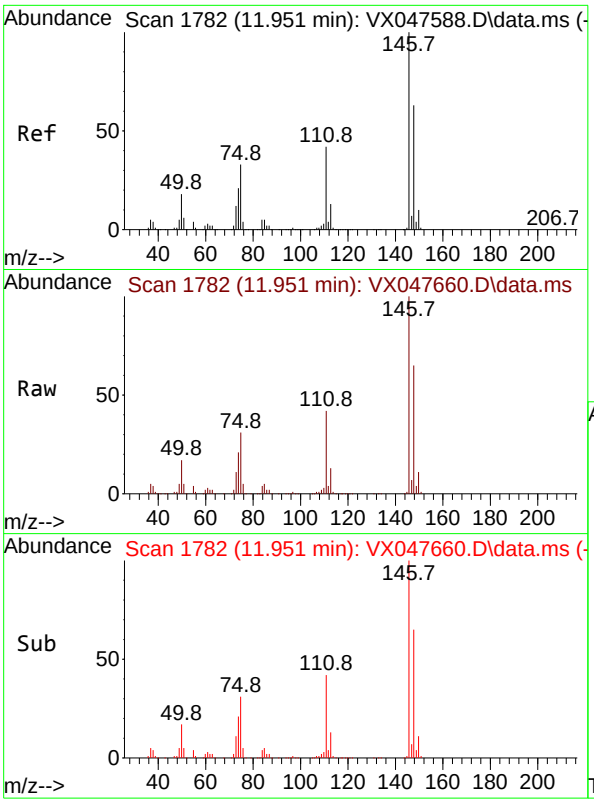


#86
p-Isopropyltoluene
Concen: 49.757 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:119 Resp: 415198

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	25.0	12.6	37.6



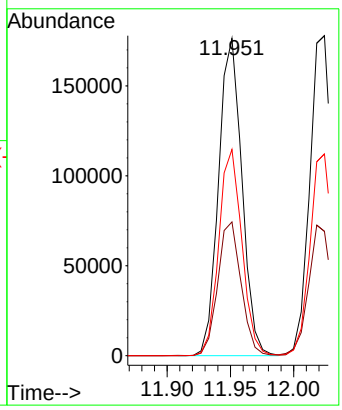


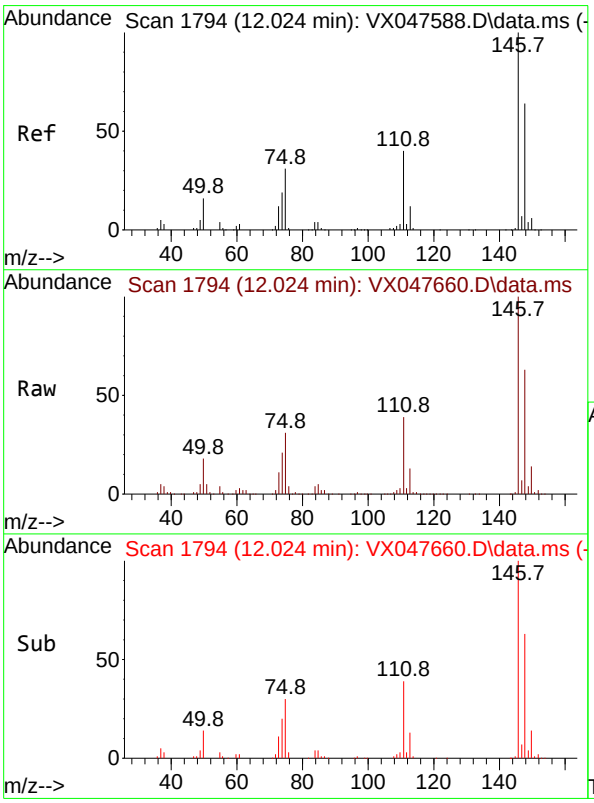
#87
1,3-Dichlorobenzene
Concen: 50.139 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 226308

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	64.3	32.0	96.0

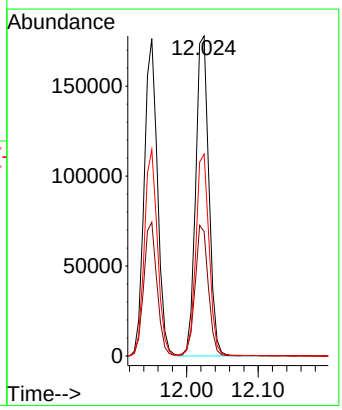


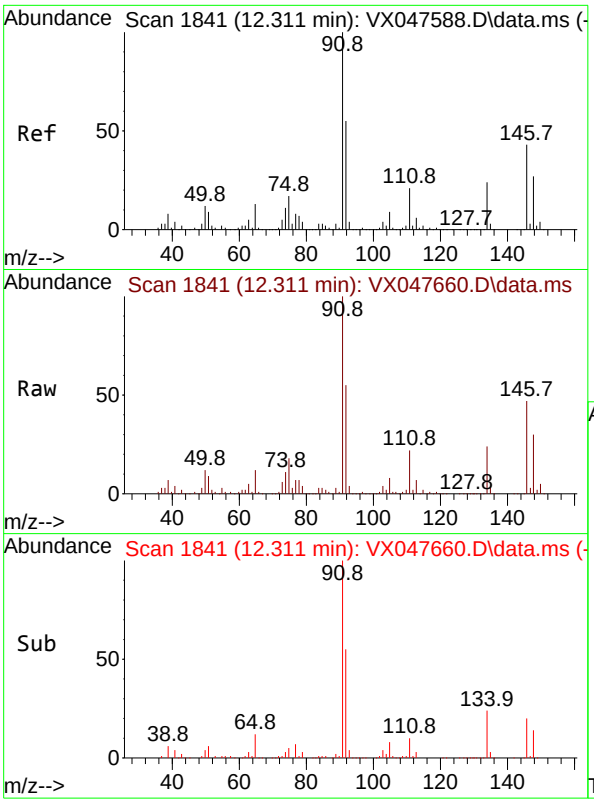


#88
1,4-Dichlorobenzene
Concen: 49.138 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:146 Resp: 227633

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.8	62.4
148	63.1	31.7	95.1



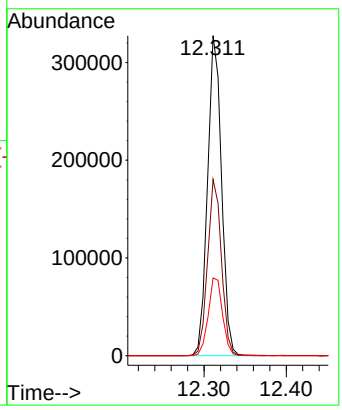


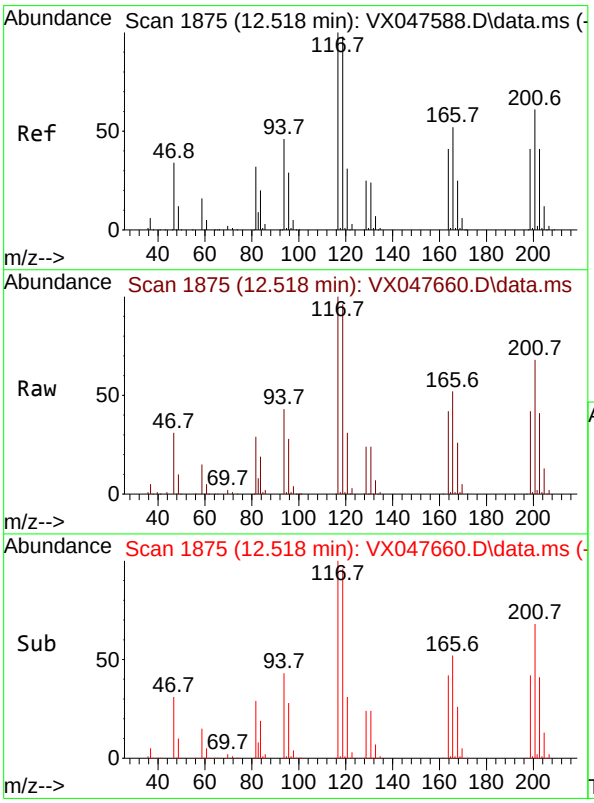
#89
n-Butylbenzene
Concen: 50.022 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 386234

Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.6	82.7
134	24.9	12.6	37.8

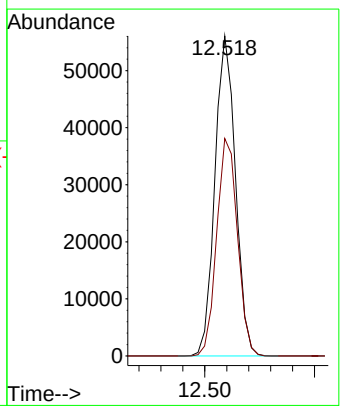


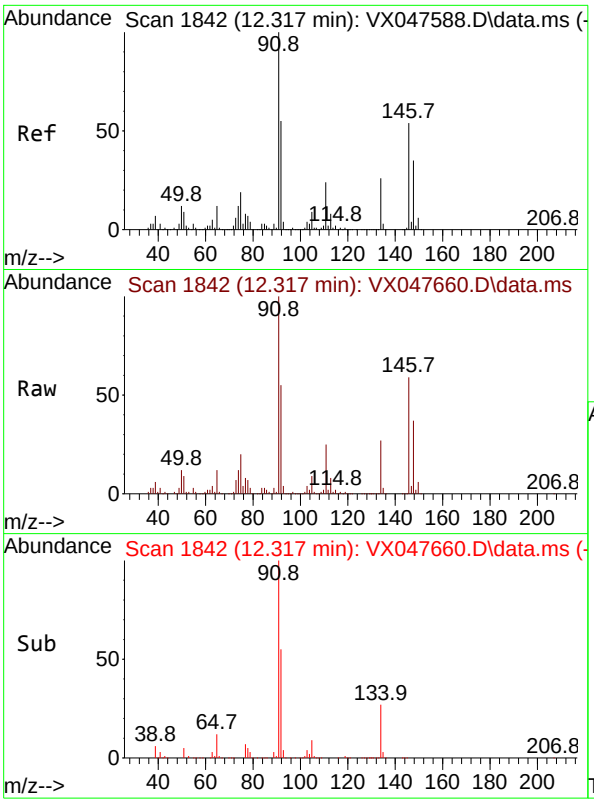


#90
Hexachloroethane
Concen: 49.913 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:117 Resp: 73125

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5



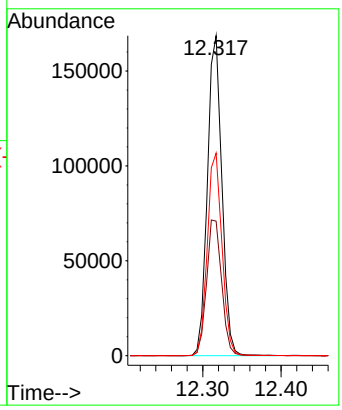


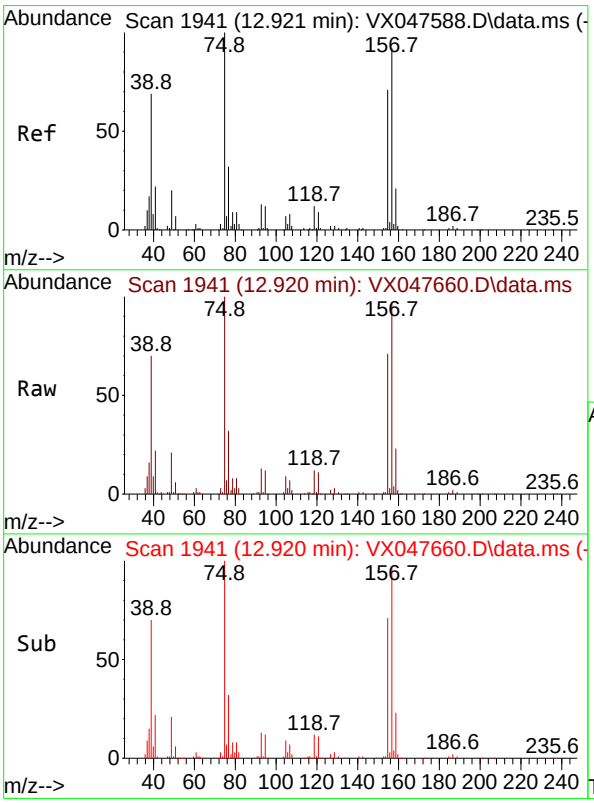
#91
1,2-Dichlorobenzene
Concen: 50.084 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 215367

Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.2	66.6
148	64.2	31.8	95.4

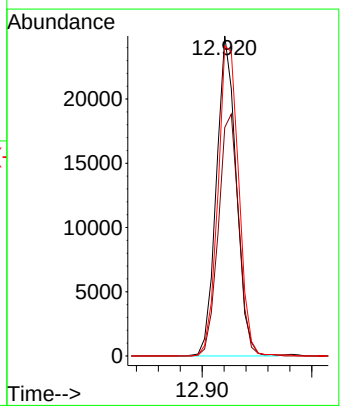


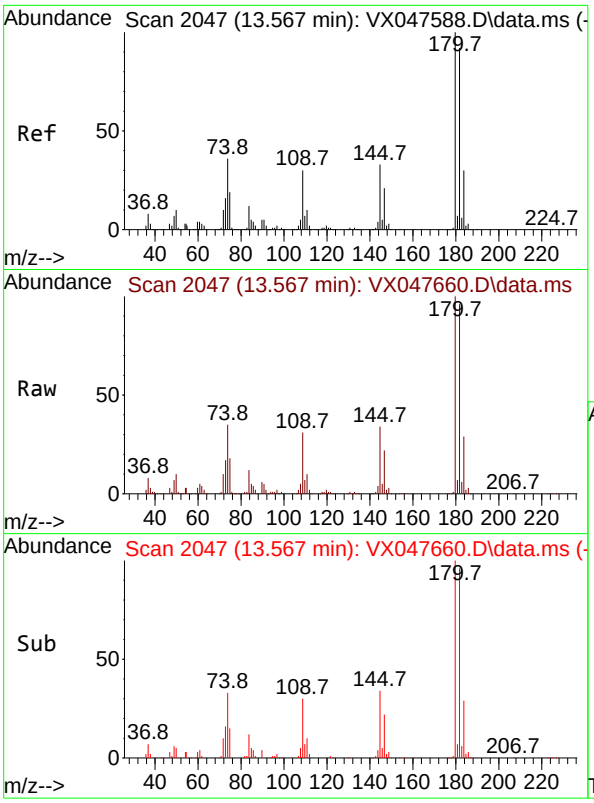


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.864 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion: 75 Resp: 31345

Ion	Ratio	Lower	Upper
75	100		
155	77.8	37.7	113.1
157	101.7	49.8	149.4



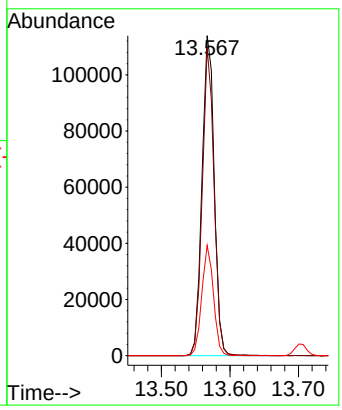


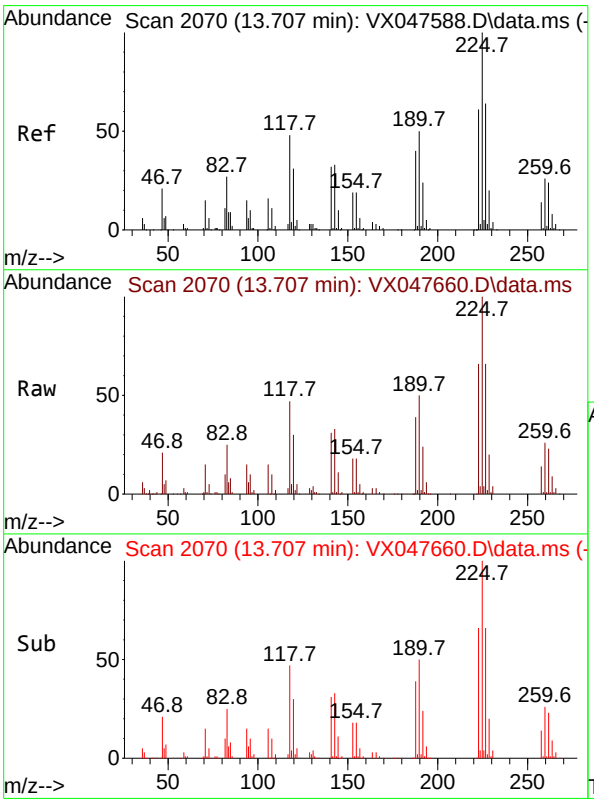
#93
1,2,4-Trichlorobenzene
Concen: 50.643 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 141532

Ion	Ratio	Lower	Upper
180	100		
182	92.9	46.6	139.8
145	32.9	16.4	49.1

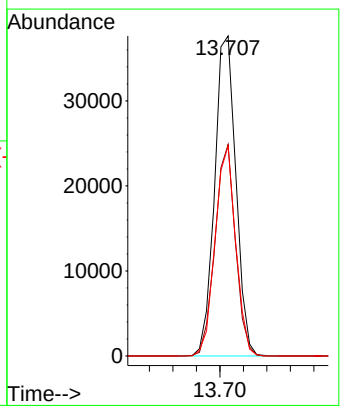


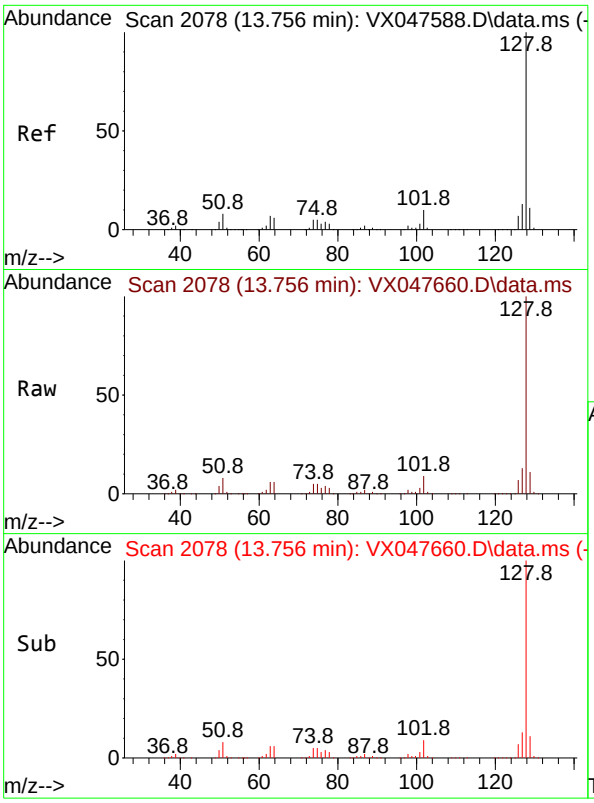


#94
Hexachlorobutadiene
Concen: 49.957 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:225 Resp: 47423

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.7	95.1
227	63.3	32.0	96.0



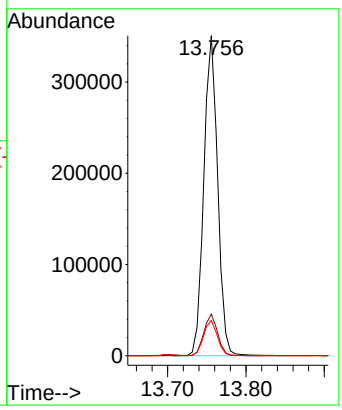


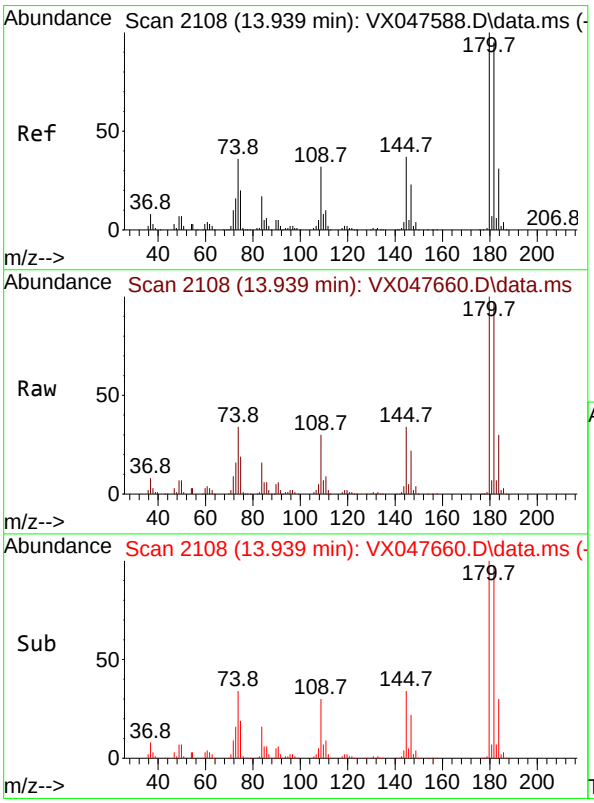
#95
Naphthalene
Concen: 50.373 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 428676

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	11.0	8.8	13.2

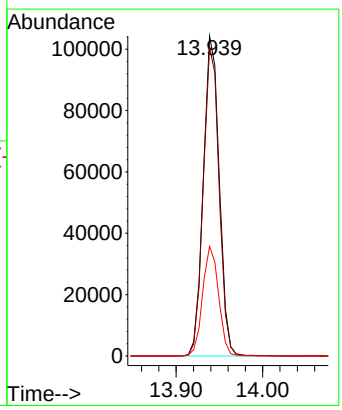




#96
1,2,3-Trichlorobenzene
Concen: 51.304 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047660.D
Acq: 19 Sep 2025 09:22

Tgt Ion:180 Resp: 133374

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.6	142.8
145	34.3	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047663.D
Acq On : 19 Sep 2025 10:38
Operator : JC/MD
Sample : VX0919WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Quant Time: Sep 20 00:27:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	190485	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	337411	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298577	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	146041	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	161347	53.214	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.420%			
35) Dibromofluoromethane	5.367	113	122748	54.245	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.480%			
50) Toluene-d8	8.635	98	434063	55.436	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 110.880%			
62) 4-Bromofluorobenzene	11.061	95	163439	55.000	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	48189	24.430	ug/l	96
3) Chloromethane	1.301	50	56662	21.857	ug/l	99
4) Vinyl Chloride	1.380	62	55247	21.771	ug/l	97
5) Bromomethane	1.618	94	36964	22.971	ug/l	93
6) Chloroethane	1.697	64	34850	20.547	ug/l	100
7) Trichlorofluoromethane	1.898	101	77725	20.628	ug/l	96
8) Diethyl Ether	2.136	74	30811	19.990	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	46477	21.095	ug/l	98
10) Methyl Iodide	2.453	142	63244	18.406	ug/l	99
11) Tert butyl alcohol	2.941	59	31950	94.614	ug/l	100
12) 1,1-Dichloroethene	2.325	96	46724	20.645	ug/l	98
13) Acrolein	2.233	56	36367	116.866	ug/l	98
14) Allyl chloride	2.666	41	90599	19.400	ug/l	98
15) Acrylonitrile	3.056	53	131021	104.748	ug/l	99
16) Acetone	2.374	43	115033	87.256	ug/l	98
17) Carbon Disulfide	2.514	76	133885	21.610	ug/l	99
18) Methyl Acetate	2.697	43	56823	19.367	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	161762	19.580	ug/l	98
20) Methylene Chloride	2.788	84	54454	19.514	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	50713	20.813	ug/l	91
22) Diisopropyl ether	3.751	45	178004	19.667	ug/l	94
23) Vinyl Acetate	3.709	43	729482	100.705	ug/l	98
24) 1,1-Dichloroethane	3.605	63	96151	19.987	ug/l	97
25) 2-Butanone	4.538	43	162542	98.842	ug/l	97
26) 2,2-Dichloropropane	4.459	77	75768	18.948	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	59674	19.998	ug/l	98
28) Bromochloromethane	4.879	49	43974	20.939	ug/l	99
29) Tetrahydrofuran	4.983	42	103814	104.940	ug/l	98
30) Chloroform	5.074	83	97368	20.030	ug/l	97
31) Cyclohexane	5.452	56	81875	20.435	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	81898	19.862	ug/l	99
36) 1,1-Dichloropropene	5.684	75	66091	19.988	ug/l	99
37) Ethyl Acetate	4.696	43	68156	19.251	ug/l	100
38) Carbon Tetrachloride	5.660	117	71209	19.821	ug/l	99
39) Methylcyclohexane	7.360	83	76946	20.500	ug/l	97
40) Benzene	6.025	78	201814	20.095	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047663.D
Acq On : 19 Sep 2025 10:38
Operator : JC/MD
Sample : VX0919WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Quant Time: Sep 20 00:27:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	39044	21.362	ug/l		96
42) 1,2-Dichloroethane	6.068	62	73915	19.343	ug/l		99
43) Isopropyl Acetate	6.318	43	117690	20.269	ug/l		100
44) Trichloroethene	7.111	130	48532	19.988	ug/l		97
45) 1,2-Dichloropropane	7.409	63	51280	19.941	ug/l		99
46) Dibromomethane	7.568	93	37312	19.938	ug/l		98
47) Bromodichloromethane	7.806	83	75948	19.667	ug/l		96
48) Methyl methacrylate	7.677	41	57109	19.745	ug/l		99
49) 1,4-Dioxane	7.641	88	12922	442.088	ug/l		97
51) 4-Methyl-2-Pentanone	8.555	43	340376	105.728	ug/l		99
52) Toluene	8.702	92	125521	20.286	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	75998	19.294	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	82725	19.649	ug/l		100
55) 1,1,2-Trichloroethane	9.135	97	47766	20.021	ug/l		97
56) Ethyl methacrylate	9.098	69	74891	19.988	ug/l		99
57) 1,3-Dichloropropane	9.293	76	83720	20.427	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	143078	87.280	ug/l		100
59) 2-Hexanone	9.415	43	236656	102.353	ug/l		99
60) Dibromochloromethane	9.506	129	55109	20.047	ug/l		99
61) 1,2-Dibromoethane	9.592	107	49855	20.516	ug/l		100
64) Tetrachloroethene	9.256	164	39697	20.395	ug/l		96
65) Chlorobenzene	10.061	112	134843	19.879	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.147	131	46247	19.758	ug/l		100
67) Ethyl Benzene	10.177	91	238457	20.374	ug/l		100
68) m/p-Xylenes	10.287	106	179504	41.206	ug/l		98
69) o-Xylene	10.622	106	84887	20.146	ug/l		100
70) Styrene	10.640	104	148789	20.153	ug/l		99
71) Bromoform	10.781	173	34739	19.876	ug/l	#	99
73) Isopropylbenzene	10.945	105	218637	19.692	ug/l		99
74) N-amyl acetate	10.823	43	99633	19.678	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	66686	19.852	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	75234	25.444	ug/l		89
77) Bromobenzene	11.183	156	53519	19.571	ug/l		99
78) n-propylbenzene	11.287	91	260496	19.847	ug/l		99
79) 2-Chlorotoluene	11.348	91	156568	19.476	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	181815	19.931	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	21163	18.252	ug/l		97
82) 4-Chlorotoluene	11.439	91	189446	19.954	ug/l		100
83) tert-Butylbenzene	11.695	119	180209	19.298	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	184775	19.979	ug/l		99
85) sec-Butylbenzene	11.872	105	221990	20.014	ug/l		99
86) p-Isopropyltoluene	11.994	119	185890	19.796	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	99921	19.672	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	101411	19.453	ug/l		98
89) n-Butylbenzene	12.311	91	174651	20.101	ug/l		98
90) Hexachloroethane	12.518	117	31341	19.010	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	94793	19.589	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	13079	19.231	ug/l		98
93) 1,2,4-Trichlorobenzene	13.567	180	59106	18.794	ug/l		100
94) Hexachlorobutadiene	13.707	225	20772	19.445	ug/l		99
95) Naphthalene	13.756	128	181956	19.000	ug/l		100
96) 1,2,3-Trichlorobenzene	13.945	180	56854	19.434	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047663.D
Acq On : 19 Sep 2025 10:38
Operator : JC/MD
Sample : VX0919WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Quant Time: Sep 20 00:27:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

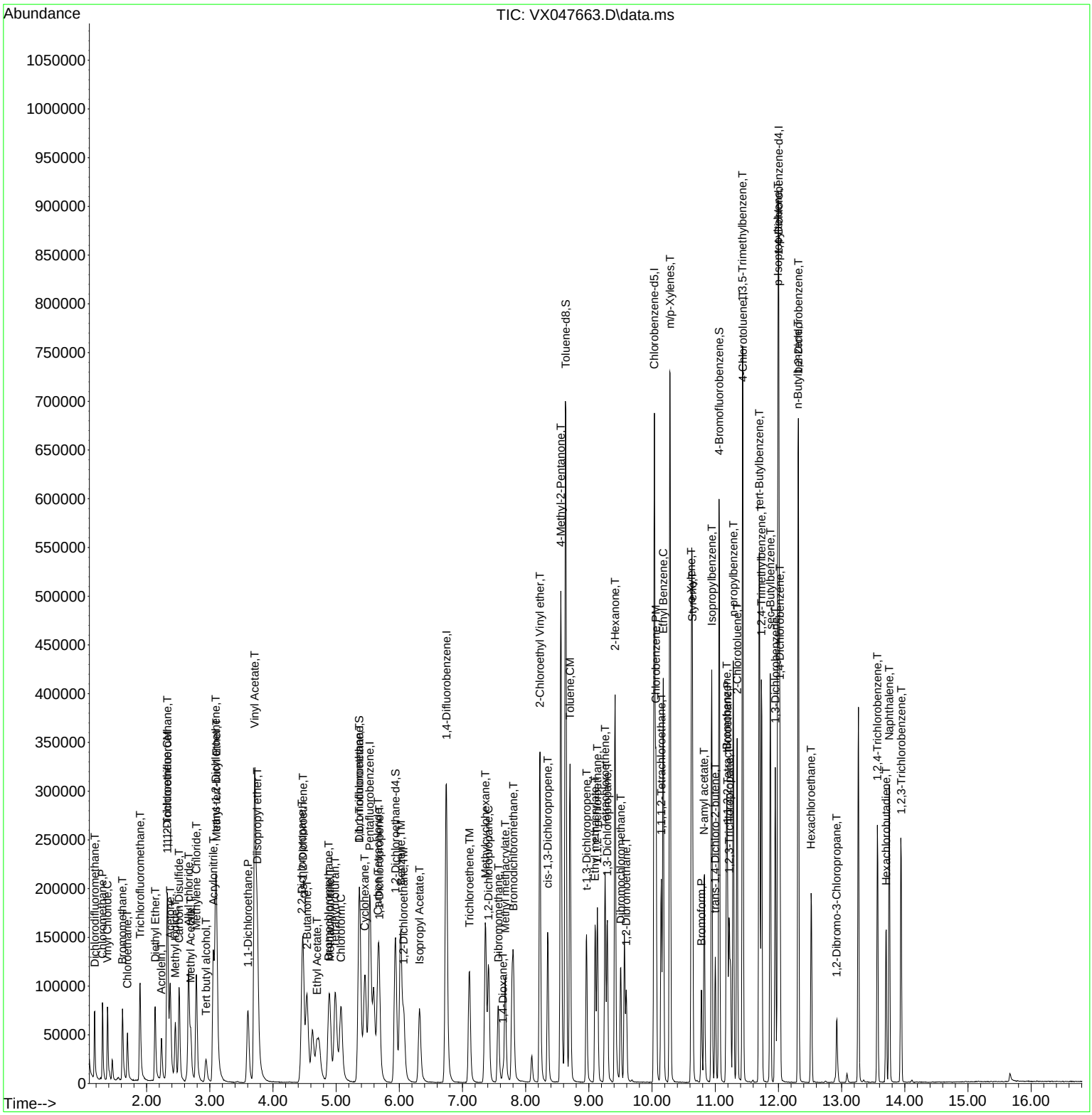
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

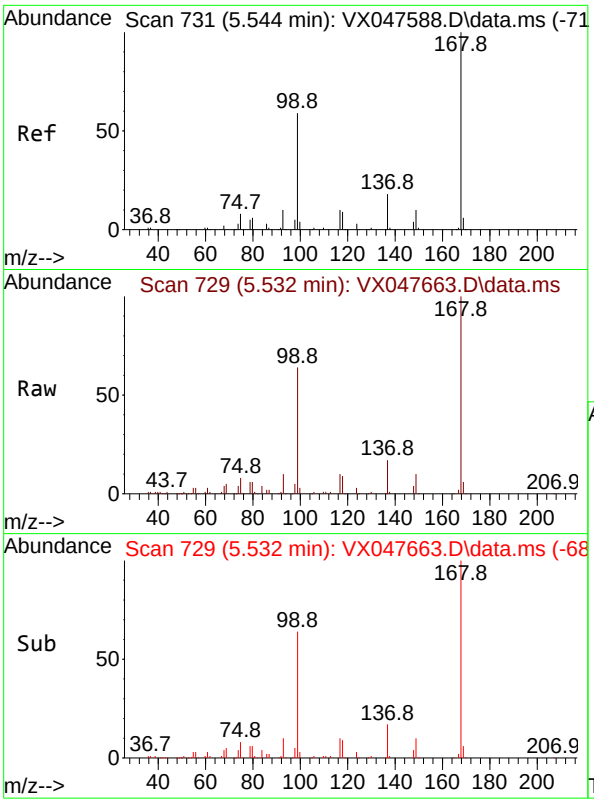
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047663.D
Acq On : 19 Sep 2025 10:38
Operator : JC/MD
Sample : VX0919WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Quant Time: Sep 20 00:27:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



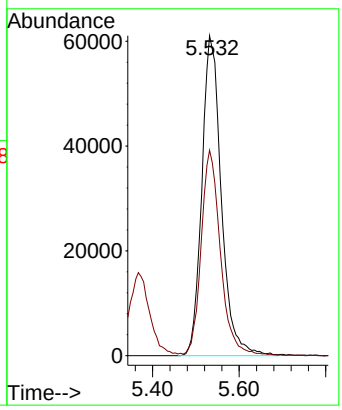


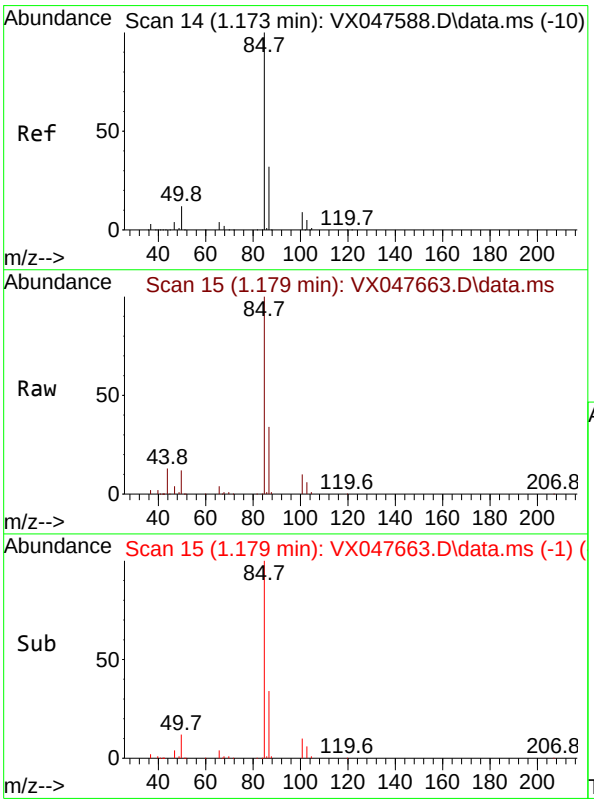
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:168 Resp: 190485

Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2

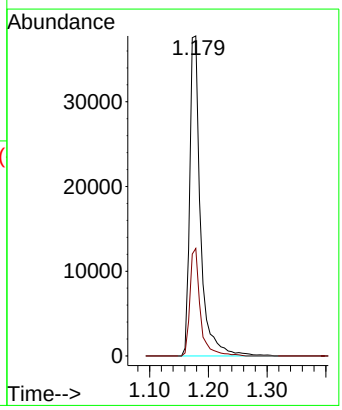


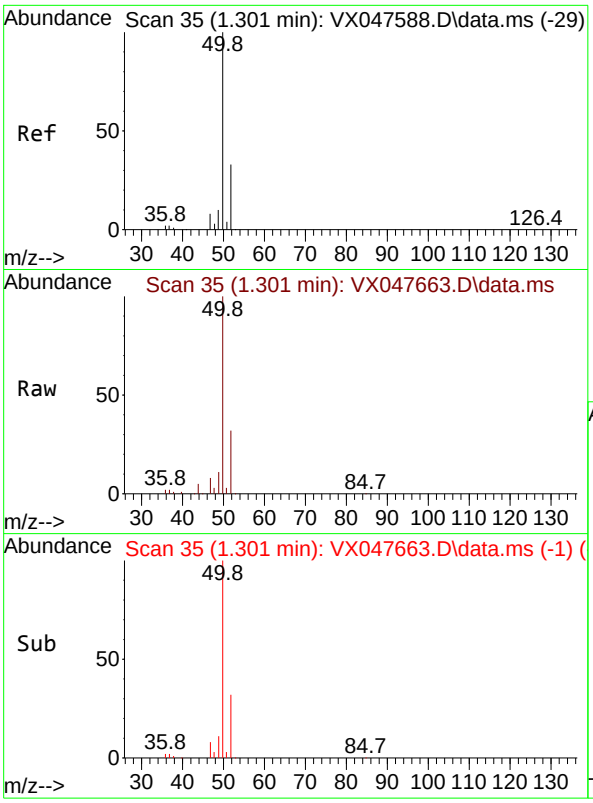


#2
Dichlorodifluoromethane
Concen: 24.430 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 85 Resp: 48189

Ion	Ratio	Lower	Upper
85	100		
87	33.6	15.8	47.3



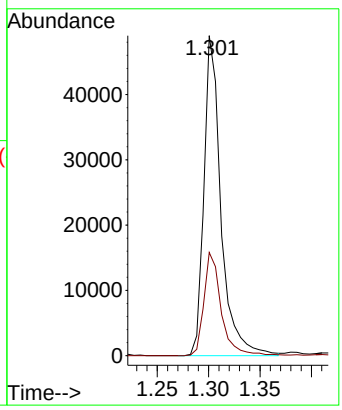


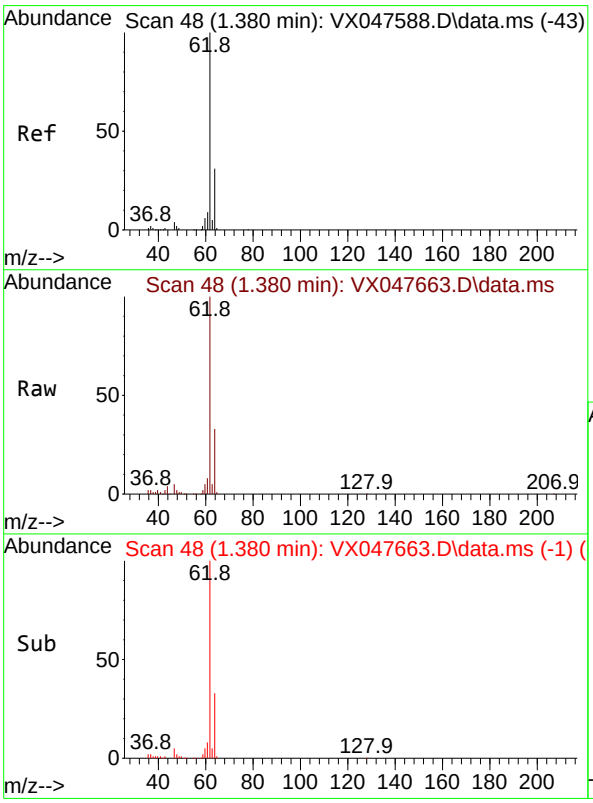
#3
Chloromethane
Concen: 21.857 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 50 Resp: 56662

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1

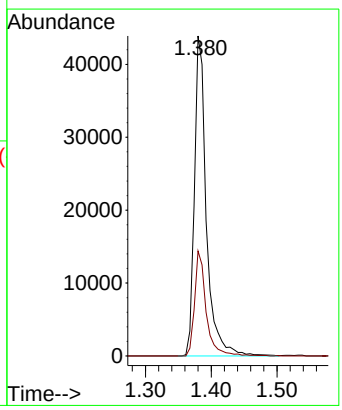


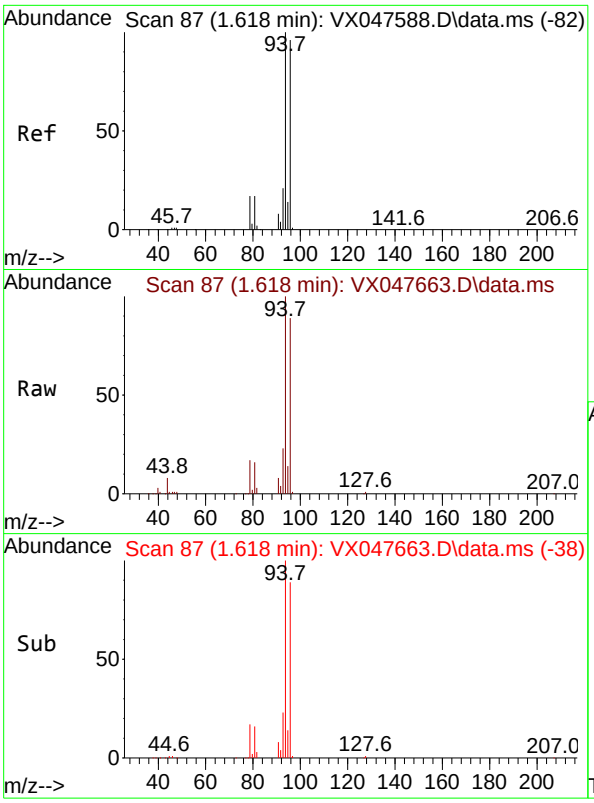


#4
Vinyl Chloride
Concen: 21.771 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 62 Resp: 55247

Ion	Ratio	Lower	Upper
62	100		
64	32.8	24.9	37.3



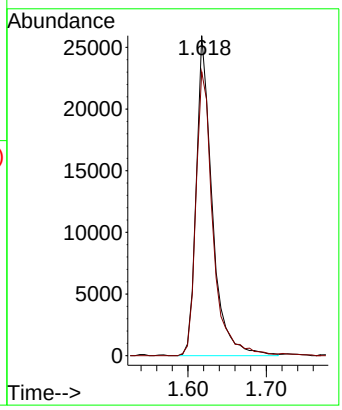


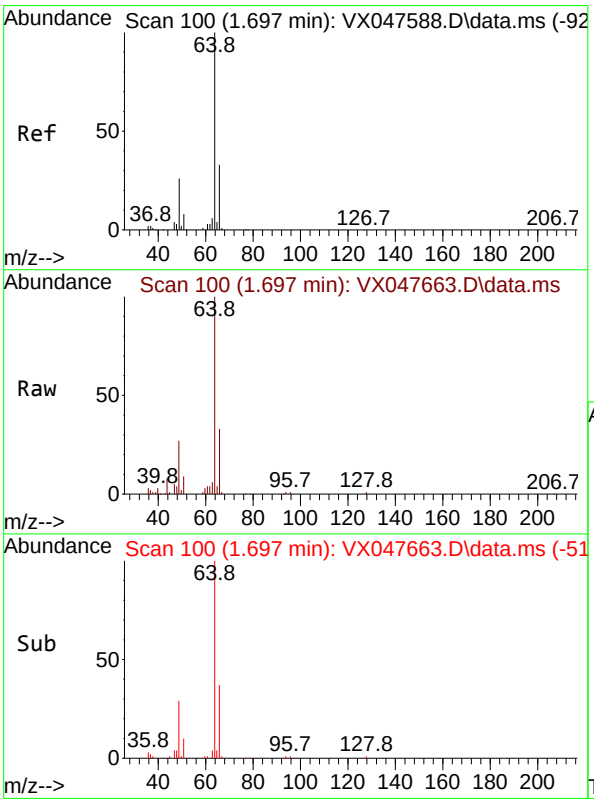
#5
Bromomethane
Concen: 22.971 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 94 Resp: 36964

Ion	Ratio	Lower	Upper
94	100		
96	88.7	76.6	115.0

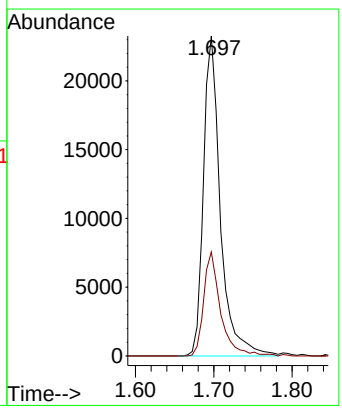


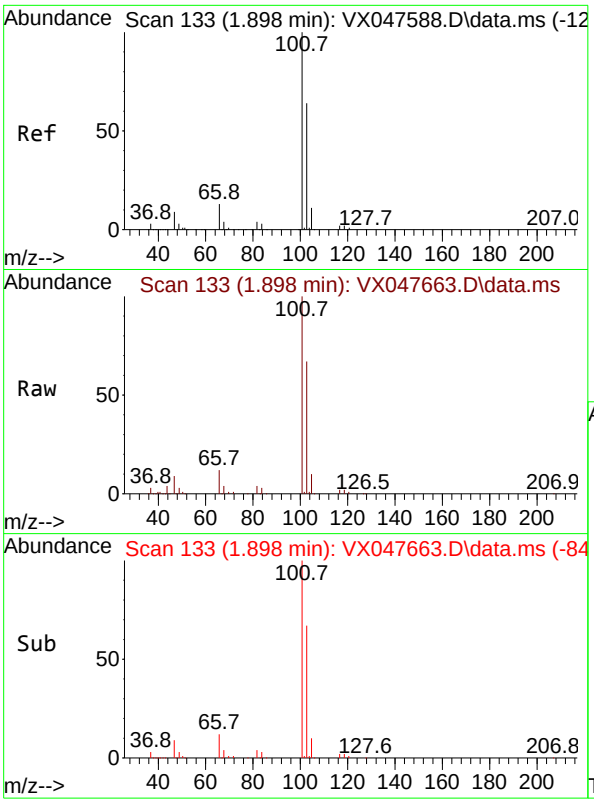


#6
Chloroethane
Concen: 20.547 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 64 Resp: 34850

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.1	39.1



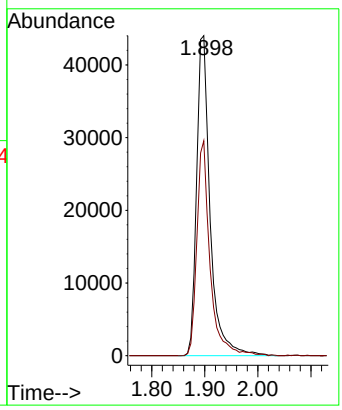


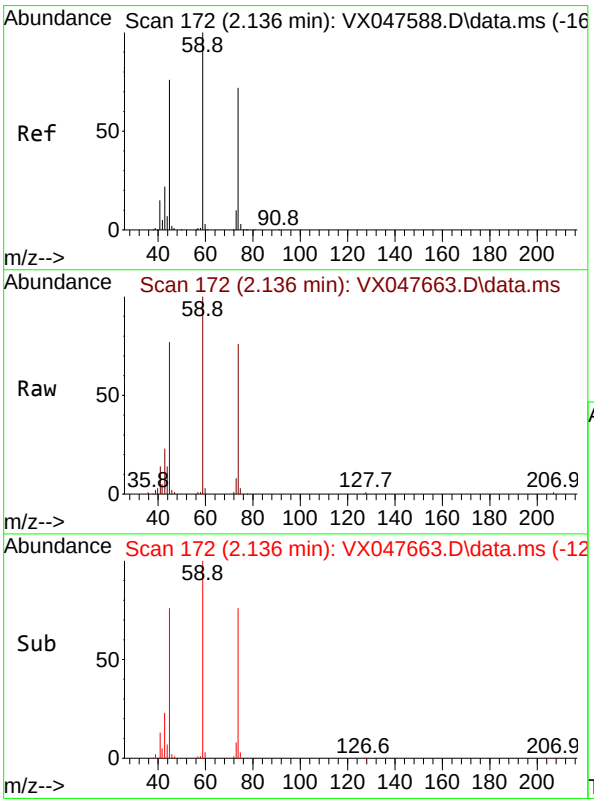
#7
Trichlorofluoromethane
Concen: 20.628 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:101 Resp: 77725

Ion	Ratio	Lower	Upper
101	100		
103	67.2	51.4	77.2

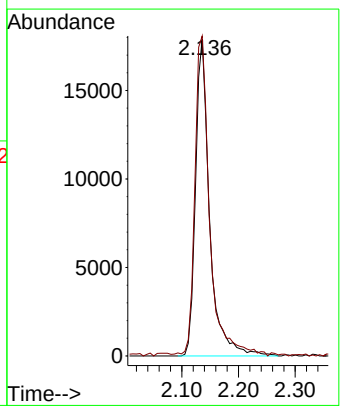


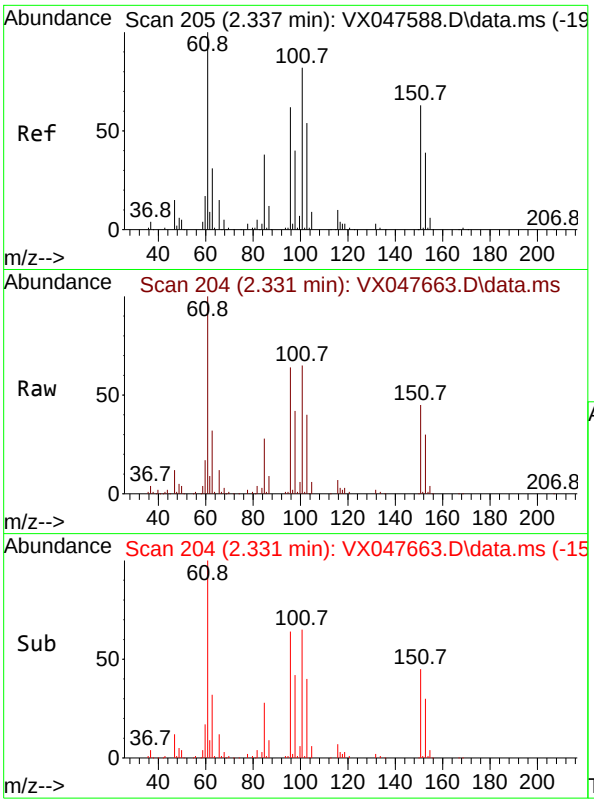


#8
Diethyl Ether
Concen: 19.990 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 74 Resp: 30811

Ion	Ratio	Lower	Upper
74	100		
45	106.7	52.3	156.8



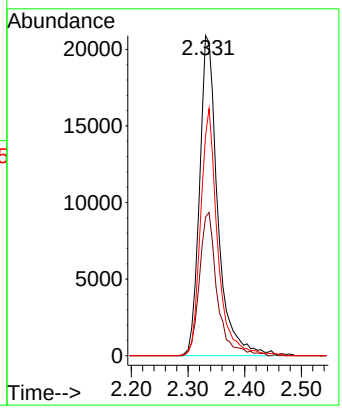


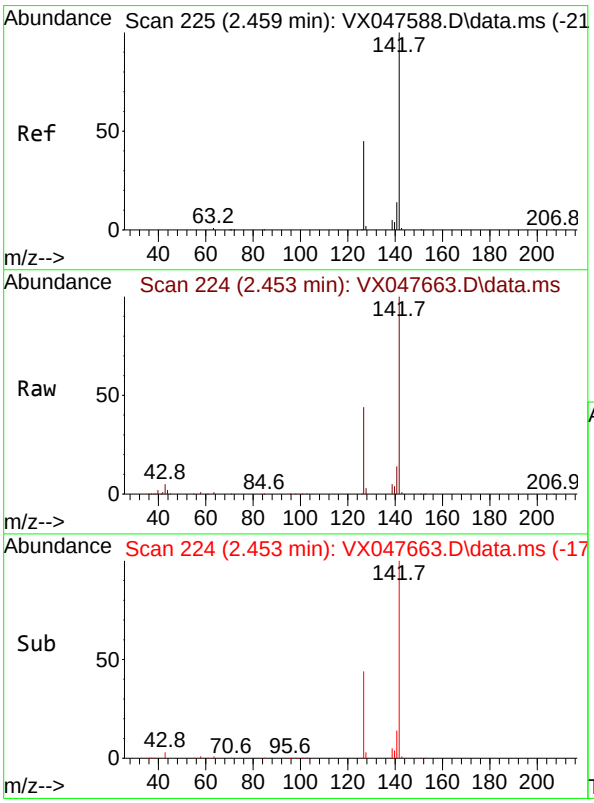
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.095 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:101 Resp: 46477

Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.5	53.3
151	72.6	59.4	89.0

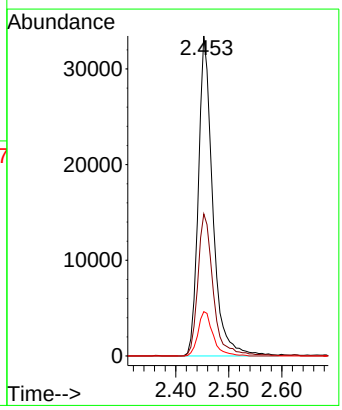


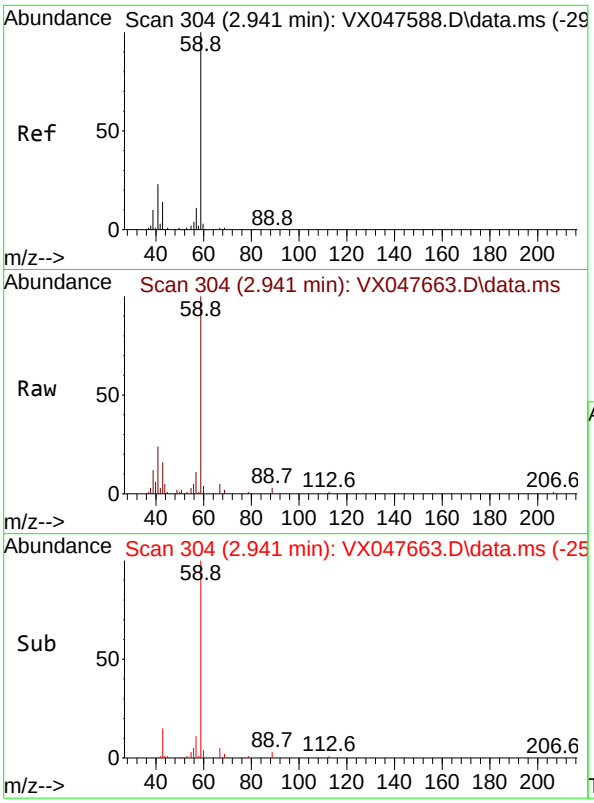


#10
Methyl Iodide
Concen: 18.406 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:142 Resp: 63244

Ion	Ratio	Lower	Upper
142	100		
127	47.2	37.2	55.8
141	14.4	11.4	17.0



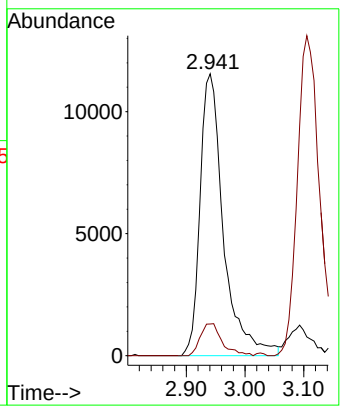


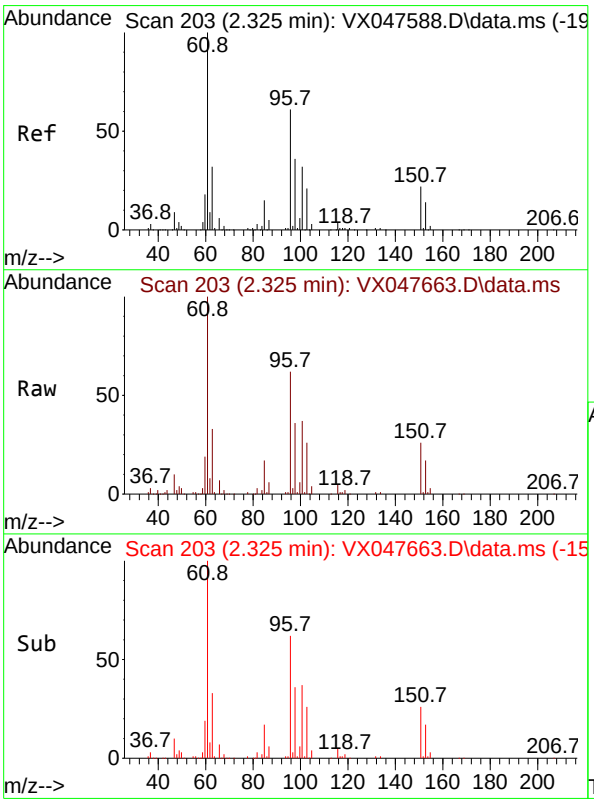
#11
Tert butyl alcohol
Concen: 94.614 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 59 Resp: 31950

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5

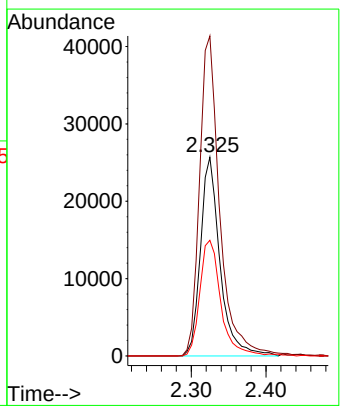


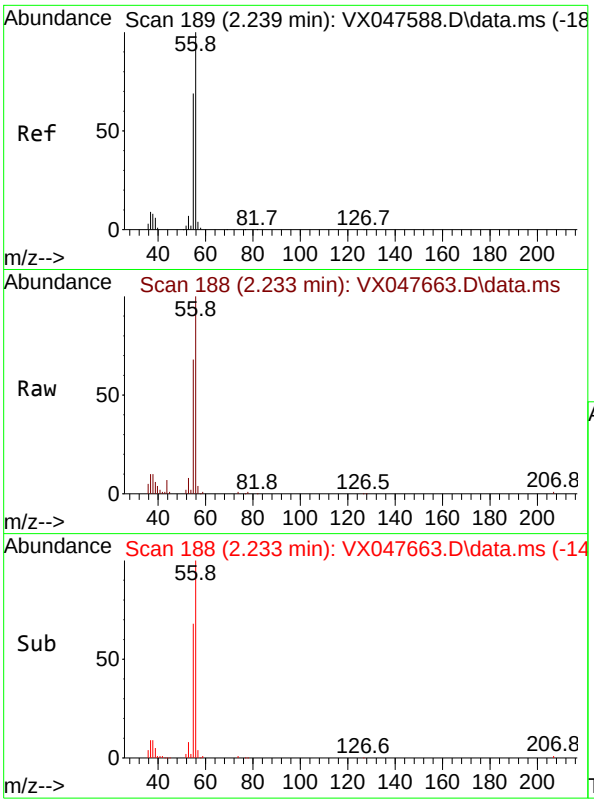


#12
1,1-Dichloroethene
Concen: 20.645 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 96 Resp: 46724

Ion	Ratio	Lower	Upper
96	100		
61	161.0	131.0	196.6
98	60.2	47.7	71.5



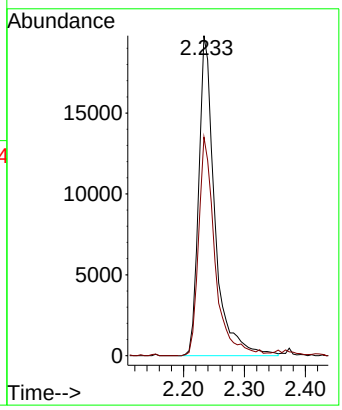


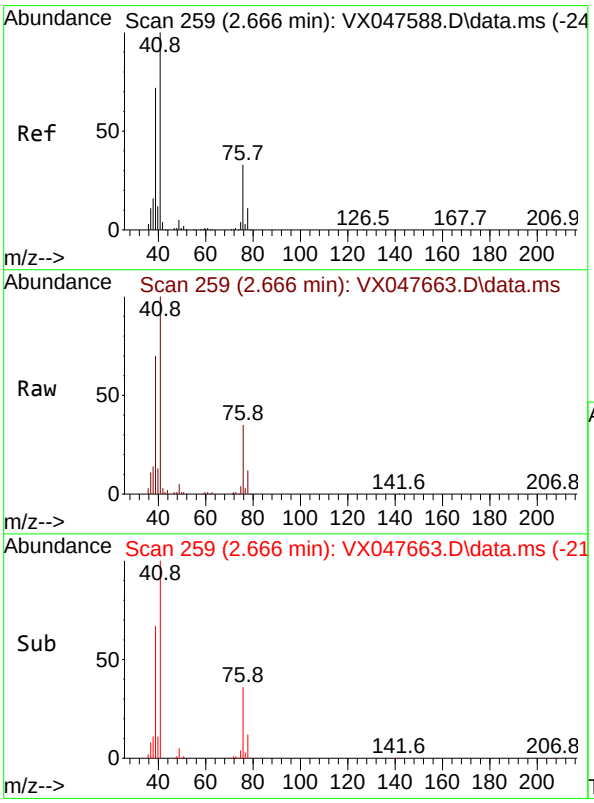
#13
Acrolein
Concen: 116.866 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 56 Resp: 36367

Ion	Ratio	Lower	Upper
56	100		
55	69.8	57.2	85.8

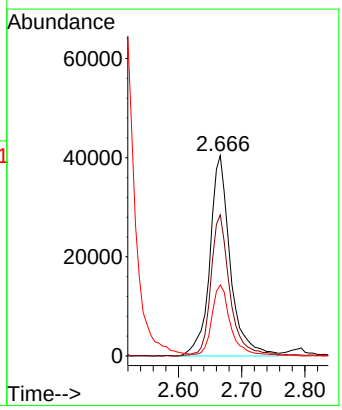


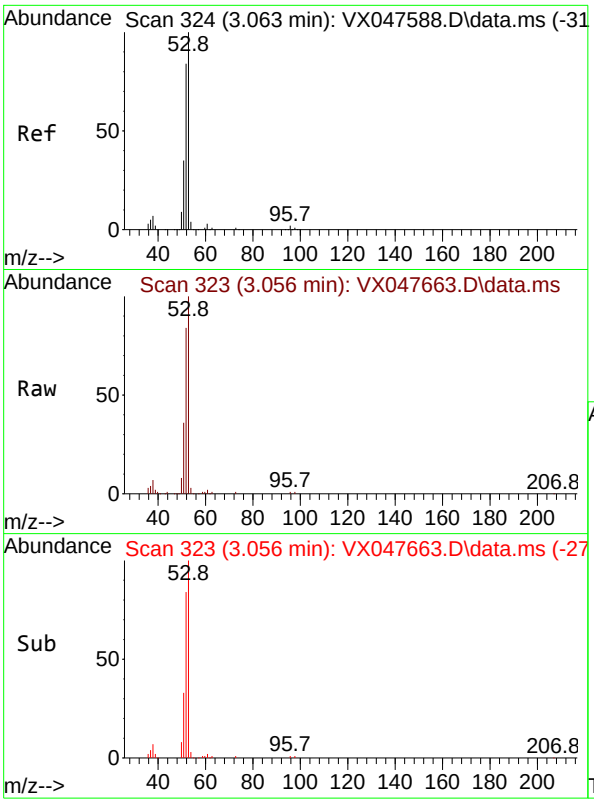


#14
Allyl chloride
Concen: 19.400 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 41 Resp: 90599

Ion	Ratio	Lower	Upper
41	100		
39	66.3	54.7	82.1
76	33.0	25.7	38.5



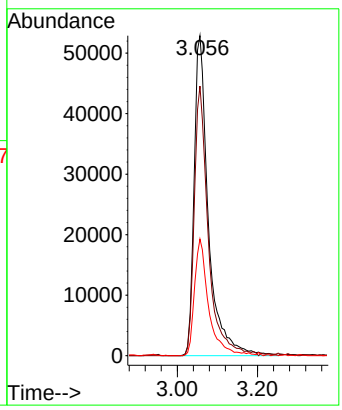


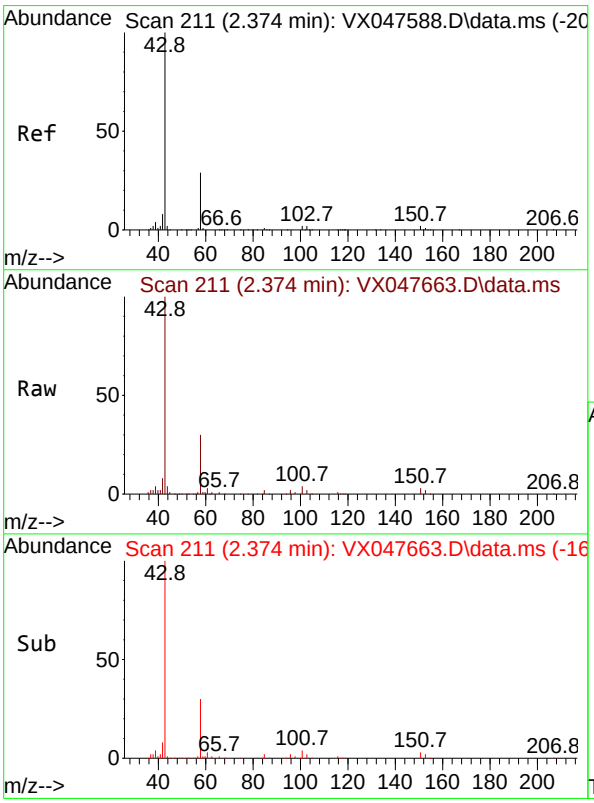
#15
Acrylonitrile
Concen: 104.748 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 53 Resp: 131021

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.3	29.5	44.3

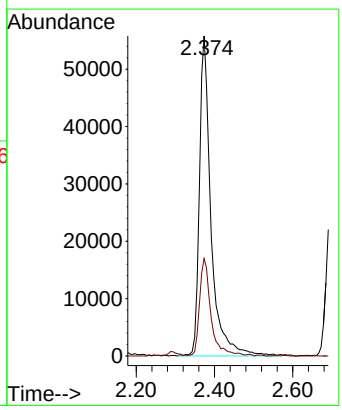


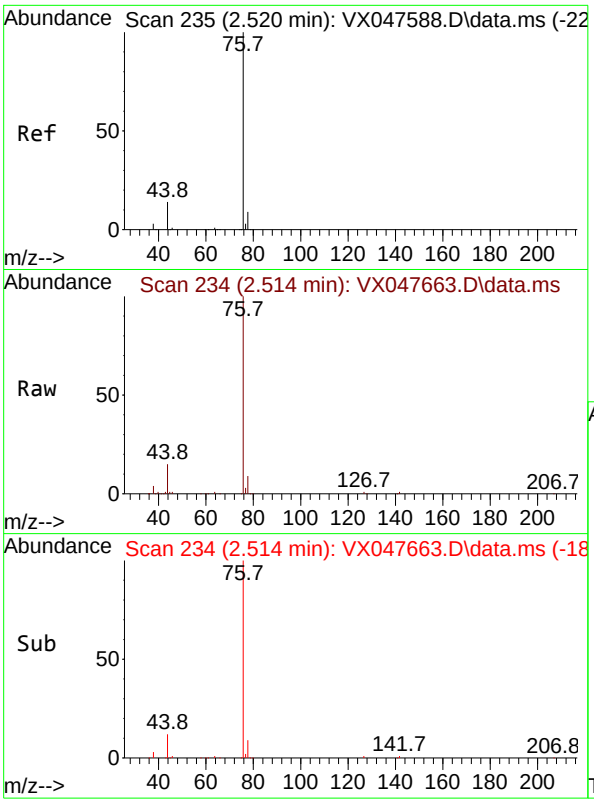


#16
Acetone
Concen: 87.256 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 115033

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.4	35.0



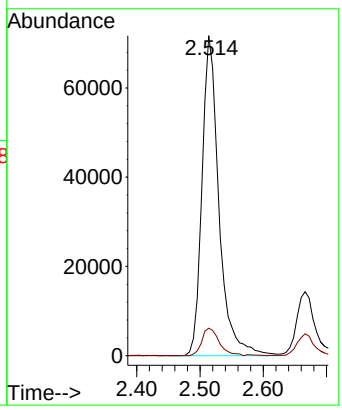


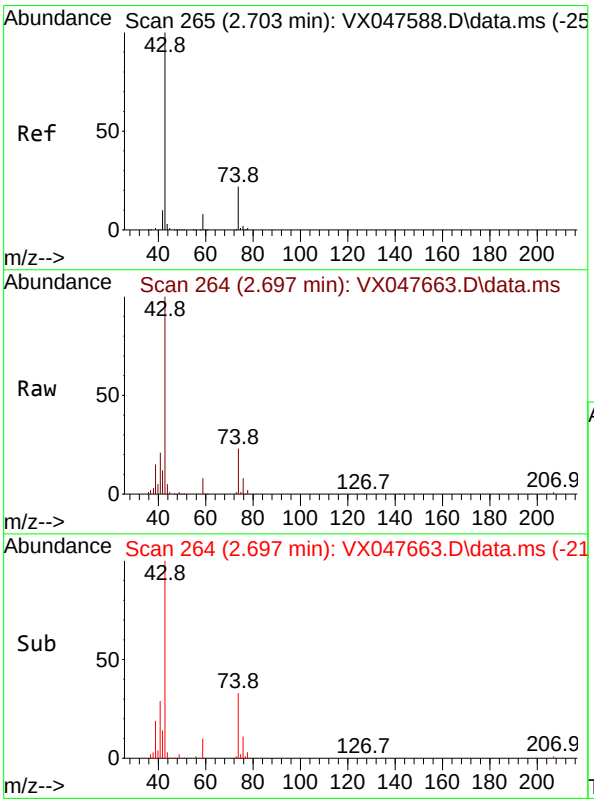
#17
Carbon Disulfide
Concen: 21.610 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 76 Resp: 133885

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2

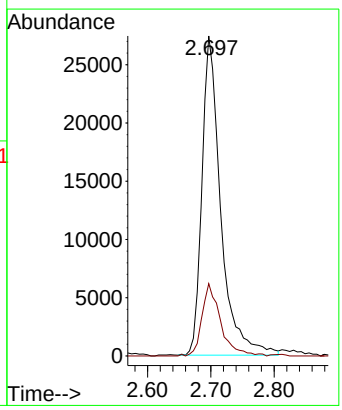


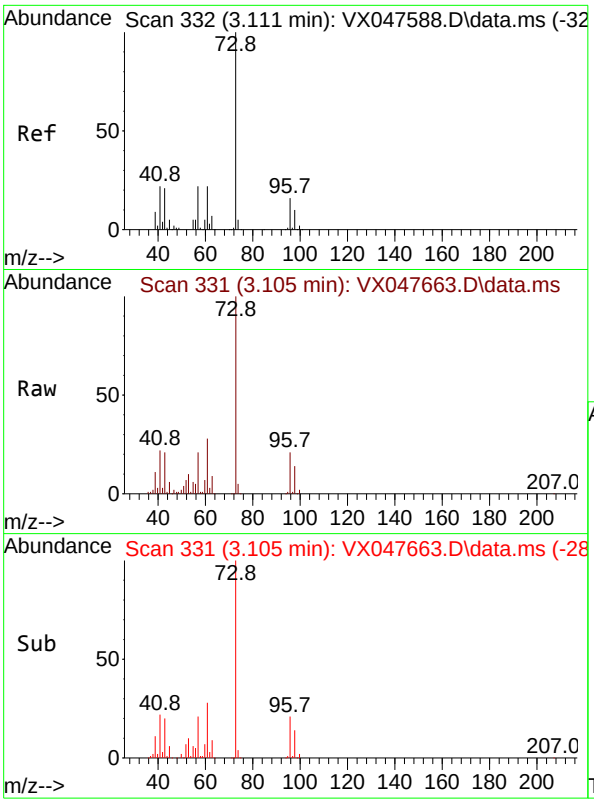


#18
Methyl Acetate
Concen: 19.367 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 56823

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.4	26.2



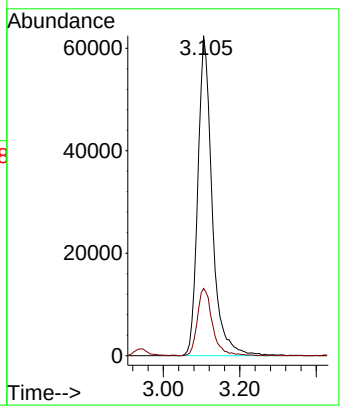


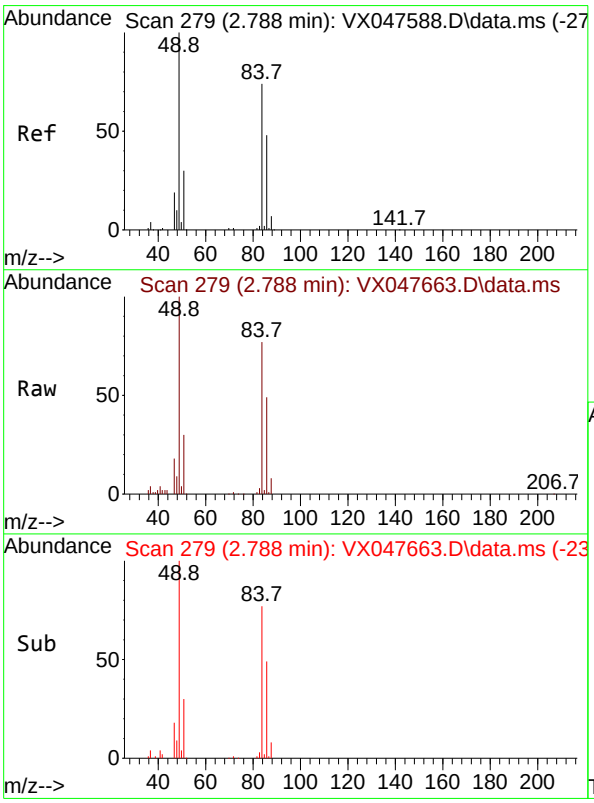
#19
Methyl tert-butyl Ether
Concen: 19.580 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 73 Resp: 161762

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2

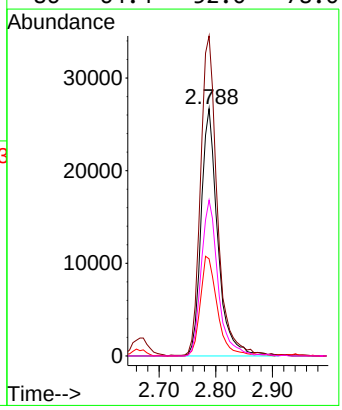


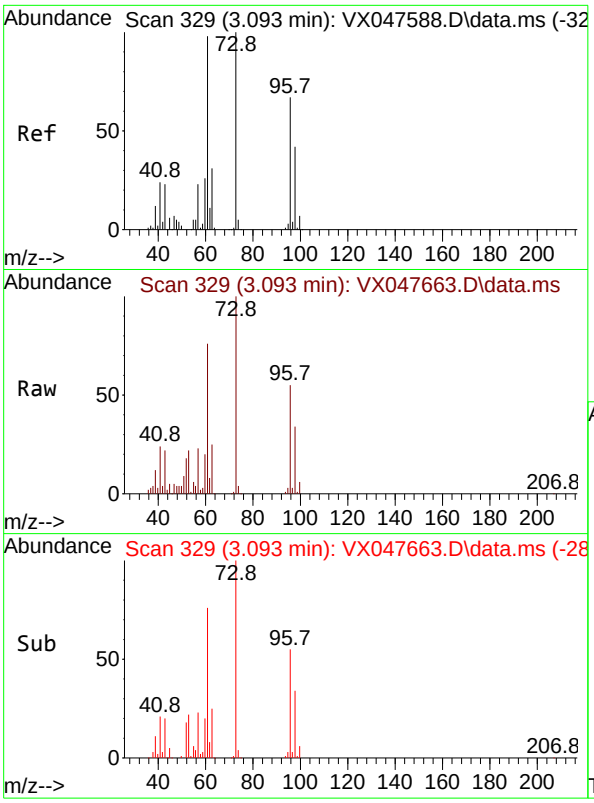


#20
Methylene Chloride
Concen: 19.514 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 84 Resp: 54454

Ion	Ratio	Lower	Upper
84	100		
49	129.1	108.6	162.8
51	39.3	32.6	48.8
86	64.4	52.0	78.0



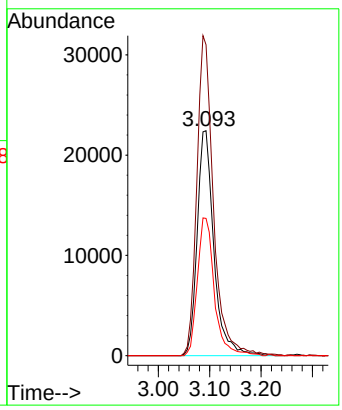


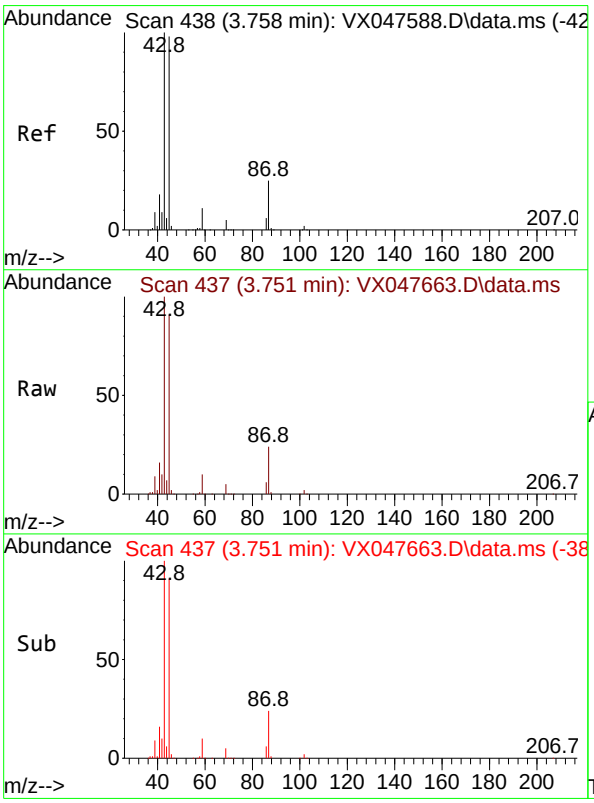
#21
trans-1,2-Dichloroethene
Concen: 20.813 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 96 Resp: 50713

Ion	Ratio	Lower	Upper
96	100		
61	131.1	116.2	174.2
98	57.9	49.3	73.9

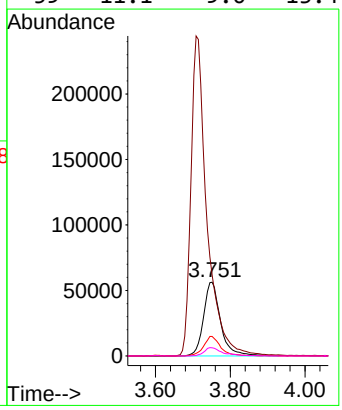


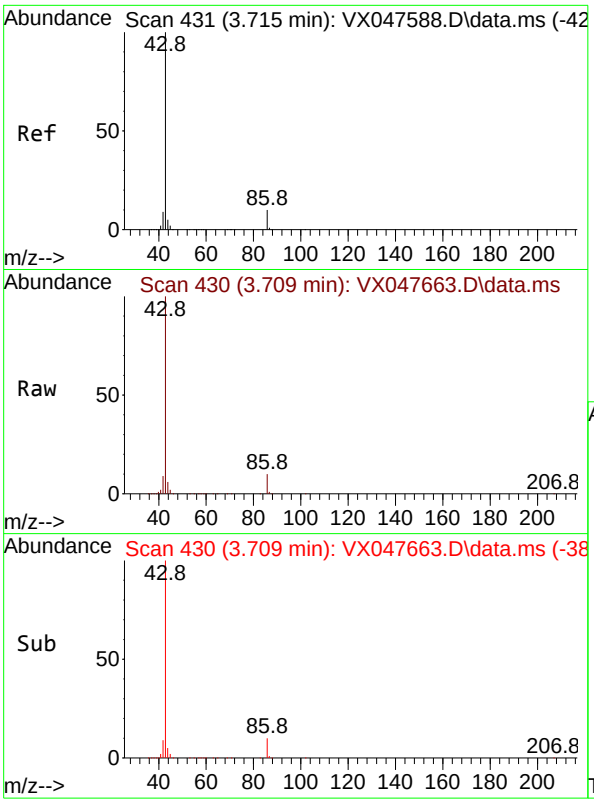


#22
Diisopropyl ether
Concen: 19.667 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 45 Resp: 178004

Ion	Ratio	Lower	Upper
45	100		
43	108.9	81.0	121.4
87	26.5	20.3	30.5
59	11.1	9.0	13.4



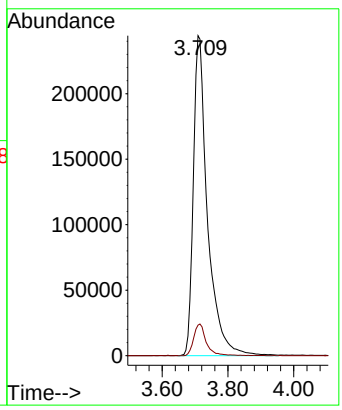


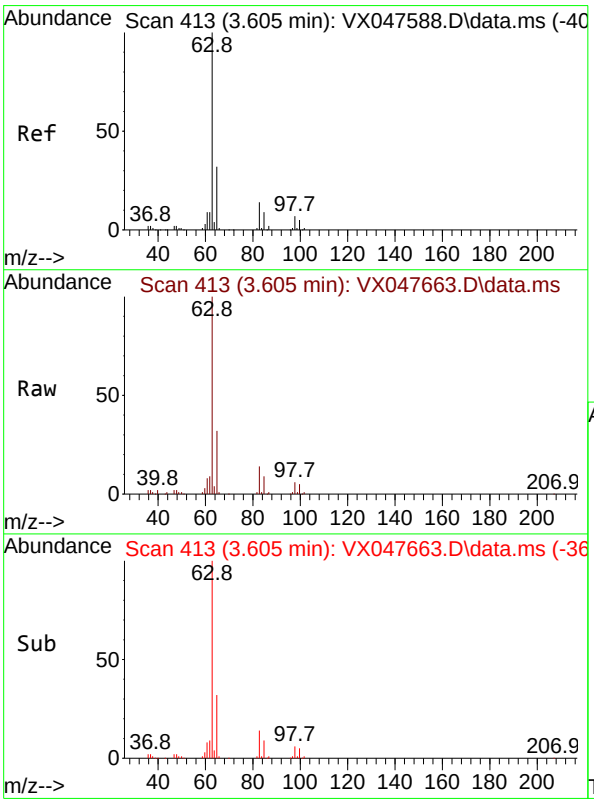
#23
Vinyl Acetate
Concen: 100.705 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 43 Resp: 729482

Ion	Ratio	Lower	Upper
43	100		
86	10.4	7.8	11.8

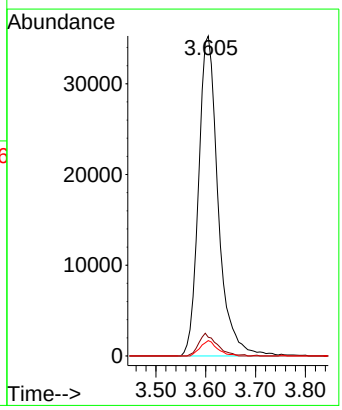


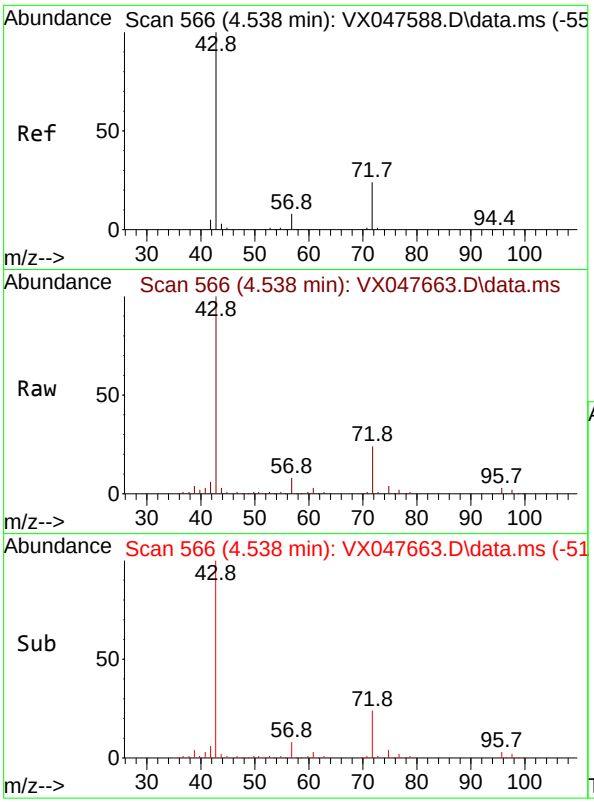


#24
1,1-Dichloroethane
Concen: 19.987 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 63 Resp: 96151

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.8	11.2
100	4.8	2.3	6.9



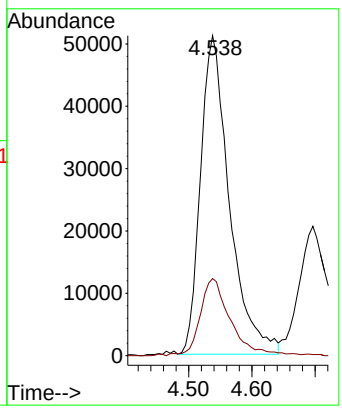


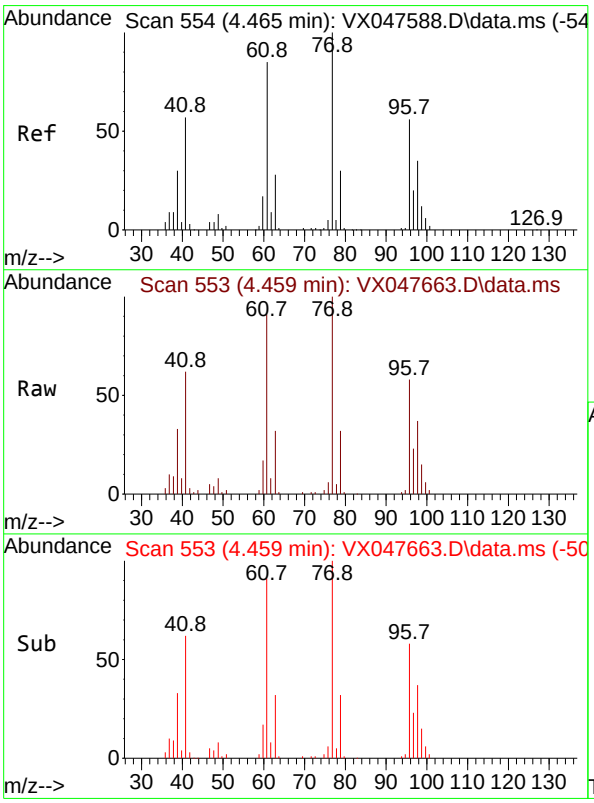
#25
2-Butanone
Concen: 98.842 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 43 Resp: 162542

Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.1	30.1

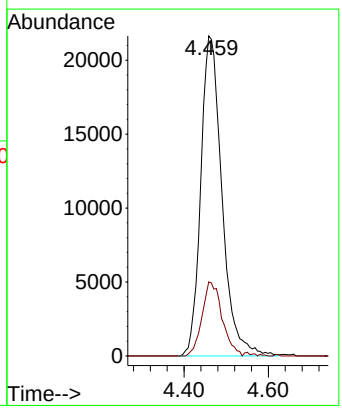


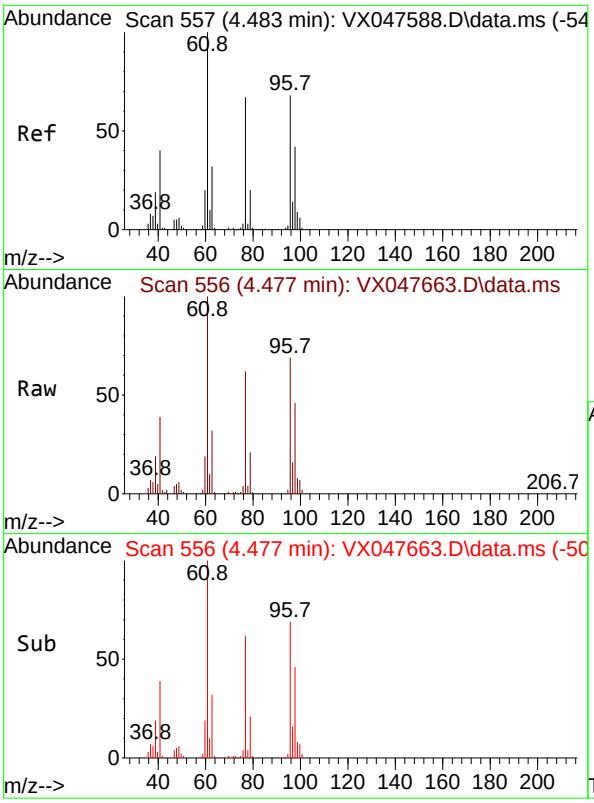


#26
2,2-Dichloropropane
Concen: 18.948 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 77 Resp: 75768

Ion	Ratio	Lower	Upper
77	100		
97	21.9	10.9	32.7



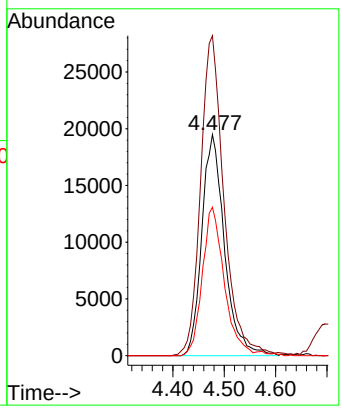


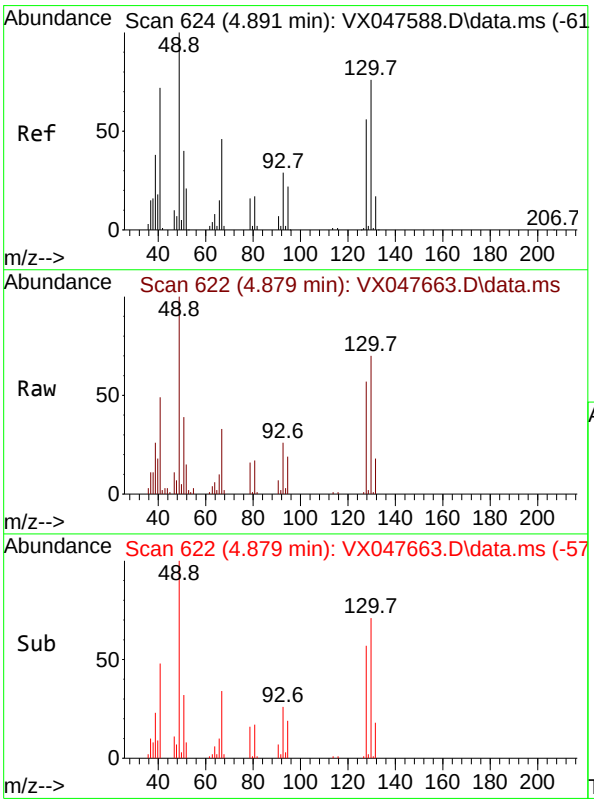
#27
cis-1,2-Dichloroethene
Concen: 19.998 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 96 Resp: 59674

Ion	Ratio	Lower	Upper
96	100		
61	149.4	0.0	303.2
98	64.8	0.0	127.8

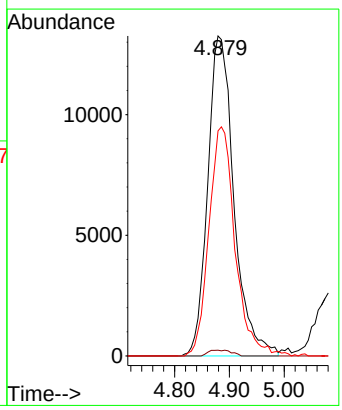


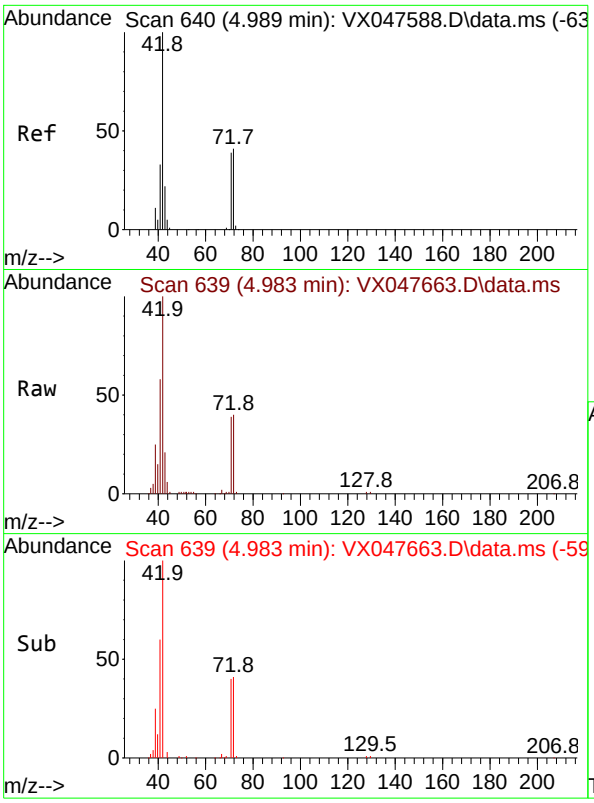


#28
Bromochloromethane
Concen: 20.939 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 49 Resp: 43974

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	71.7	57.8	86.8



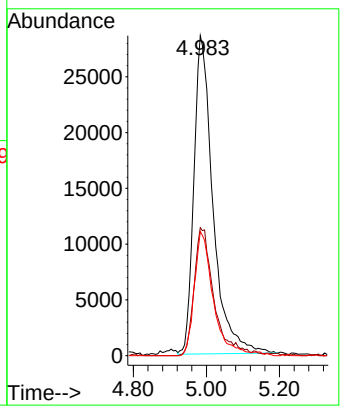


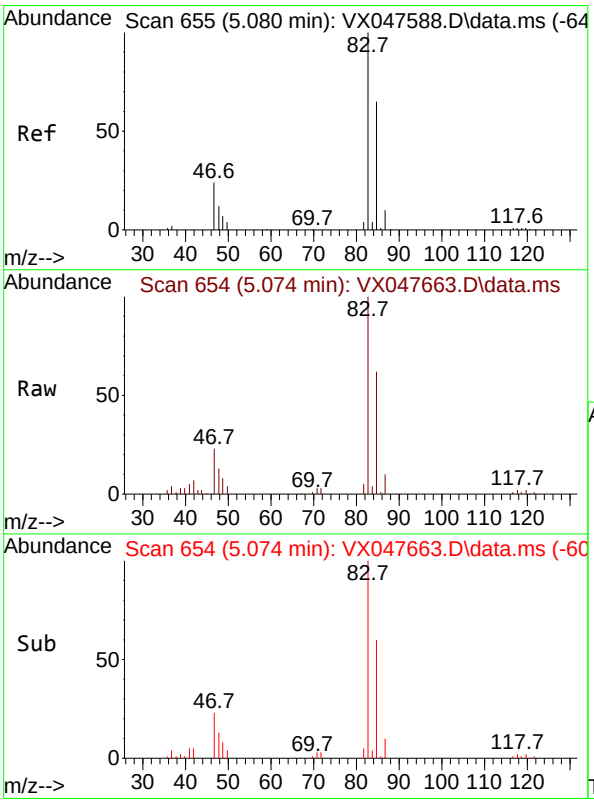
#29
Tetrahydrofuran
Concen: 104.940 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 42 Resp: 103814

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	38.4	31.9	47.9

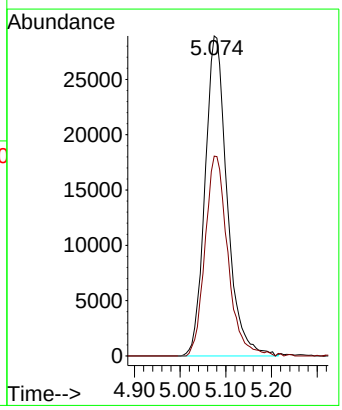


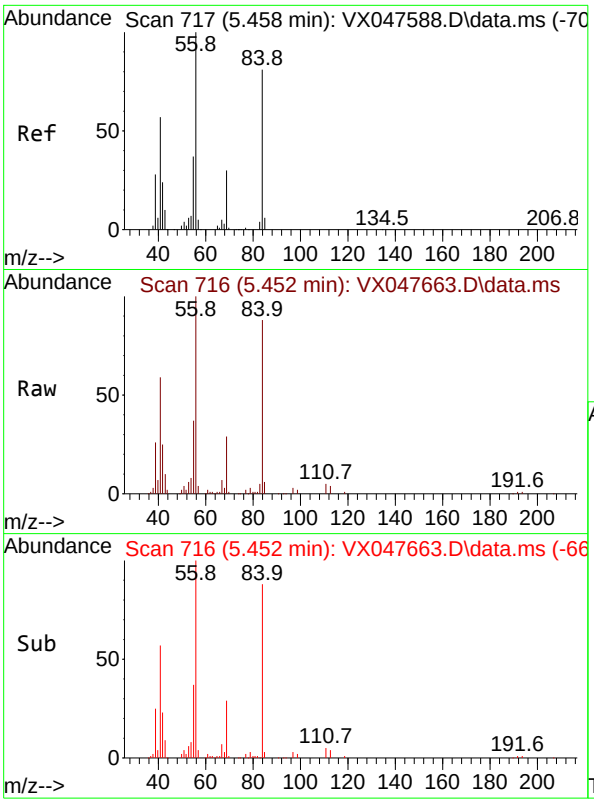


#30
Chloroform
Concen: 20.030 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 83 Resp: 97368

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.8	77.6



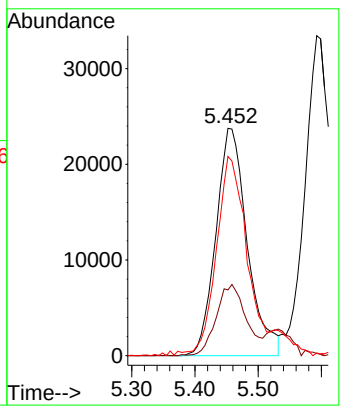


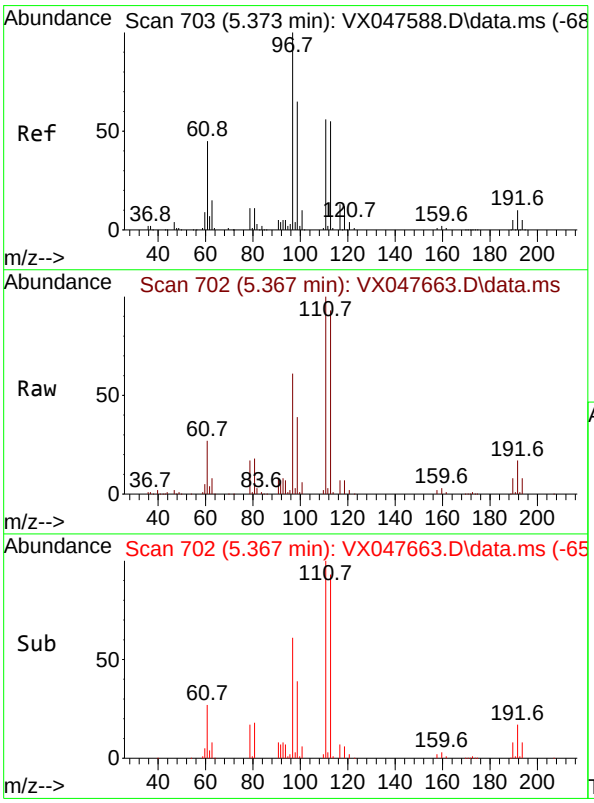
#31
Cyclohexane
Concen: 20.435 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 56 Resp: 81875

Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.8	35.8
84	85.6	64.6	97.0

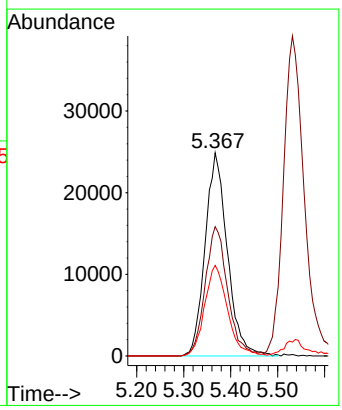


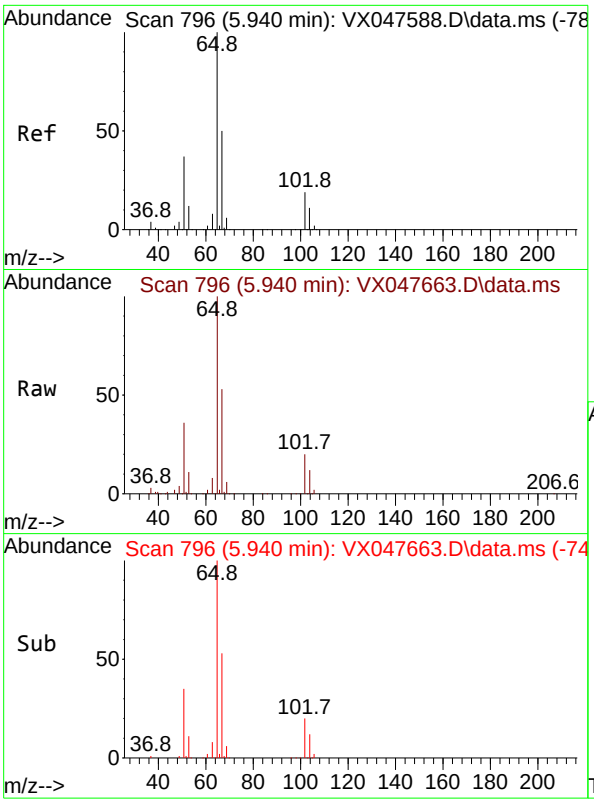


#32
1,1,1-Trichloroethane
Concen: 19.862 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 97 Resp: 81898

Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.6	76.0
61	45.7	35.8	53.8



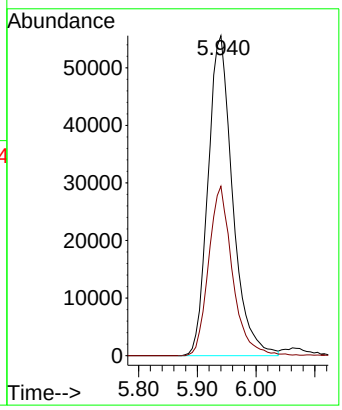


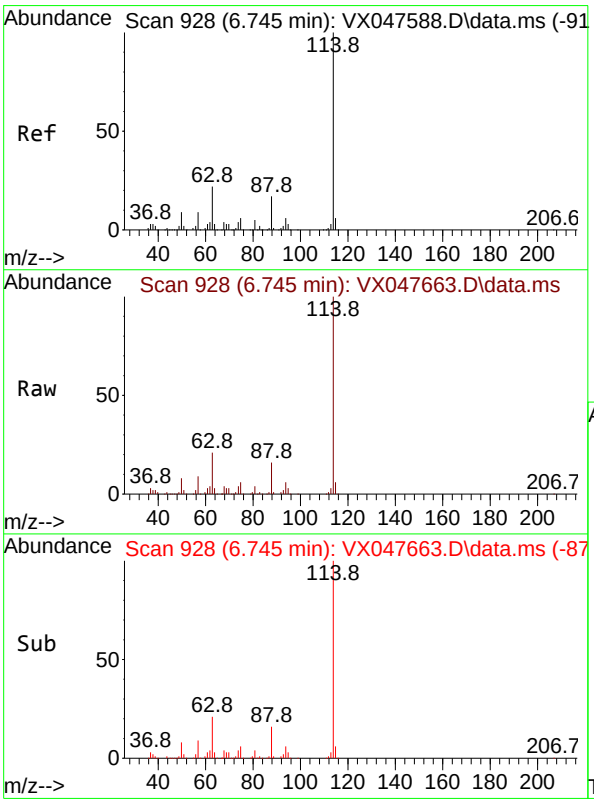
#33
1,2-Dichloroethane-d4
Concen: 53.214 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 65 Resp: 161347

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	103.0

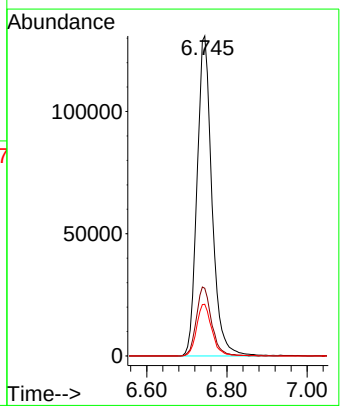


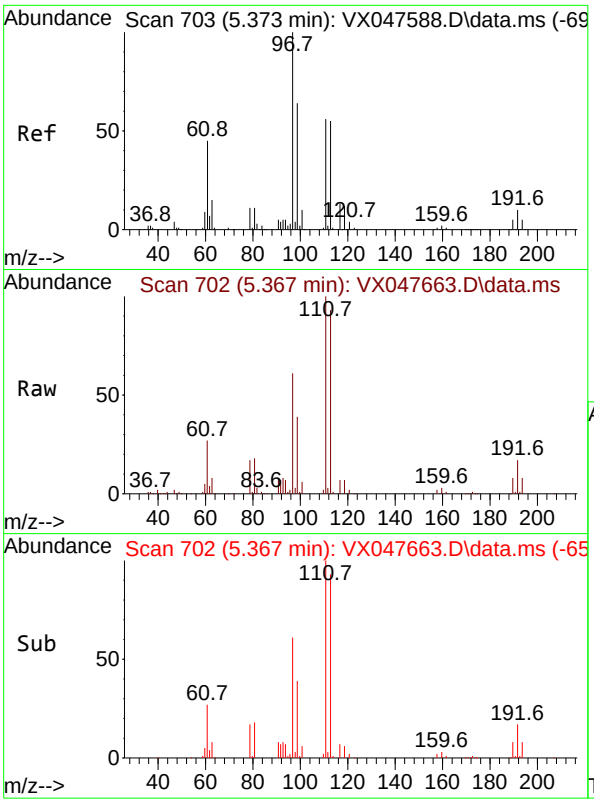


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:114 Resp: 337411

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.1	0.0	34.2



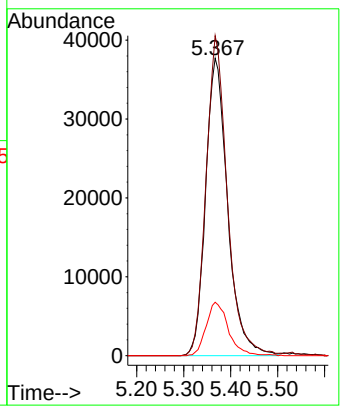


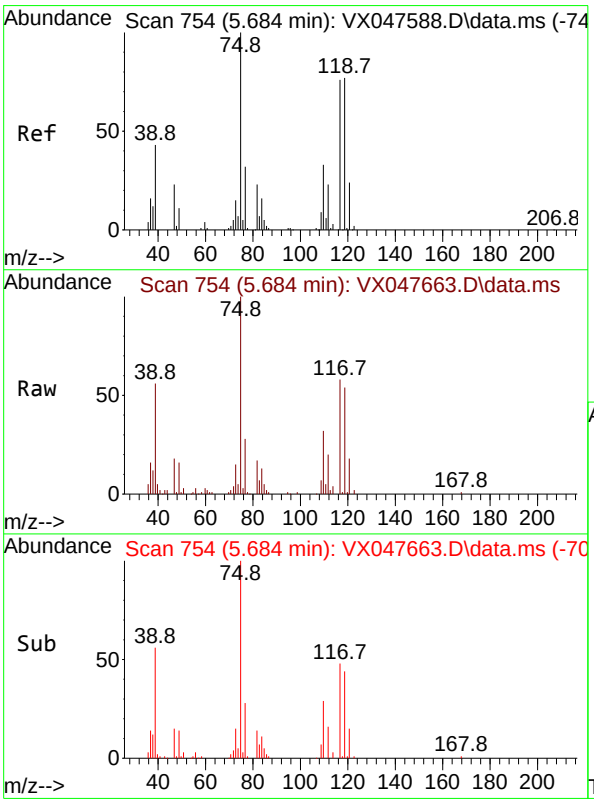
#35
Dibromofluoromethane
Concen: 54.245 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:113 Resp: 122748

Ion	Ratio	Lower	Upper
113	100		
111	104.1	80.9	121.3
192	18.1	14.2	21.4

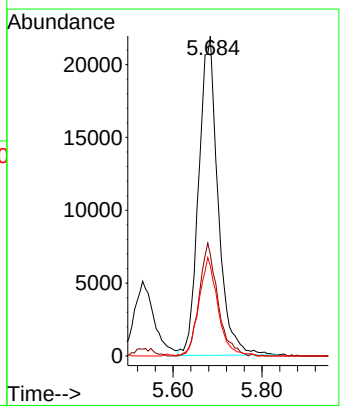


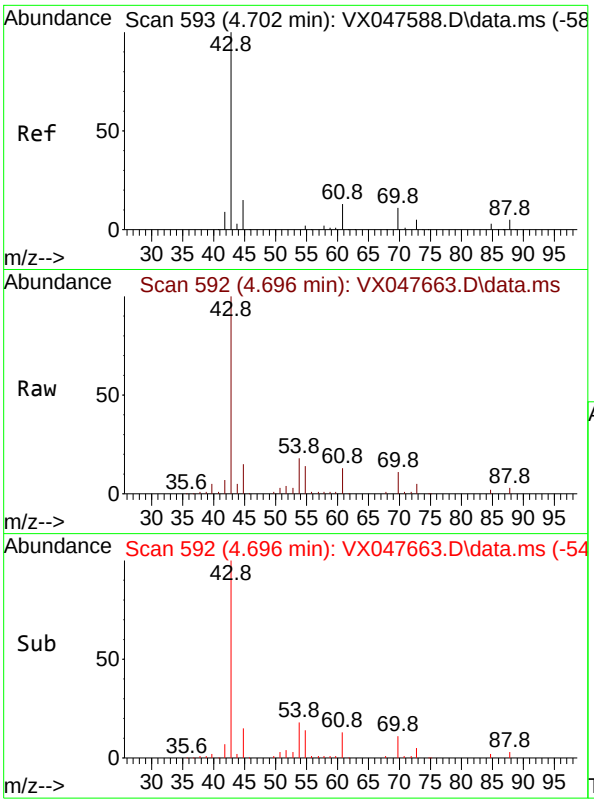


#36
1,1-Dichloropropene
Concen: 19.988 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 66091

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.7	50.1
77	30.5	24.3	36.5



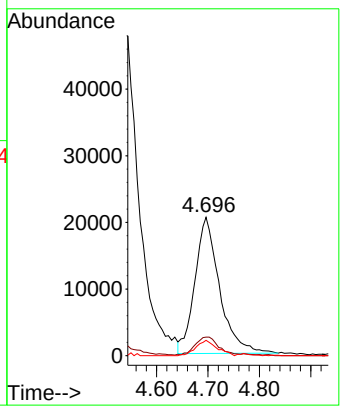


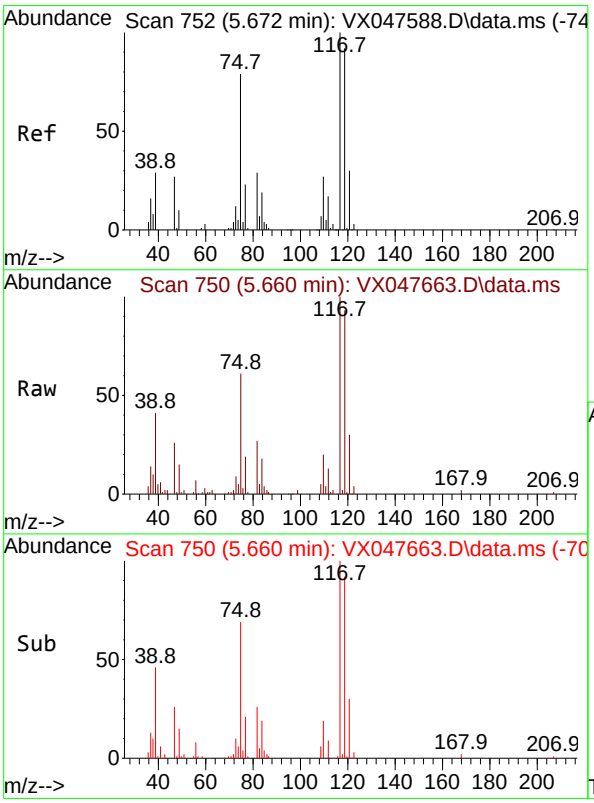
#37
Ethyl Acetate
Concen: 19.251 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 43 Resp: 68156

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.6	7.9	11.9

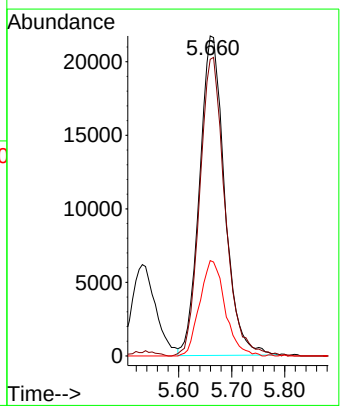


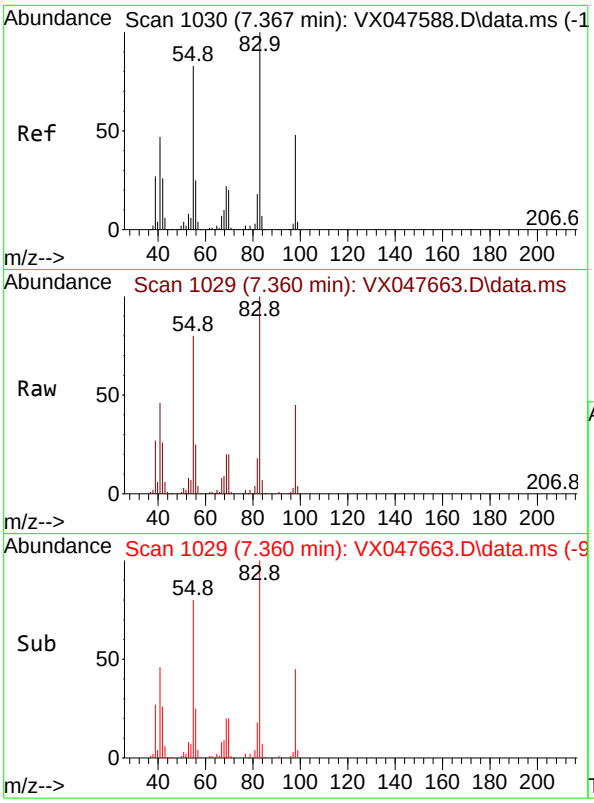


#38
Carbon Tetrachloride
Concen: 19.821 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:117 Resp: 71209

Ion	Ratio	Lower	Upper
117	100		
119	92.4	73.4	110.2
121	29.9	23.8	35.6



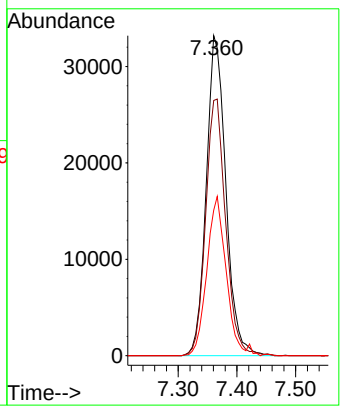


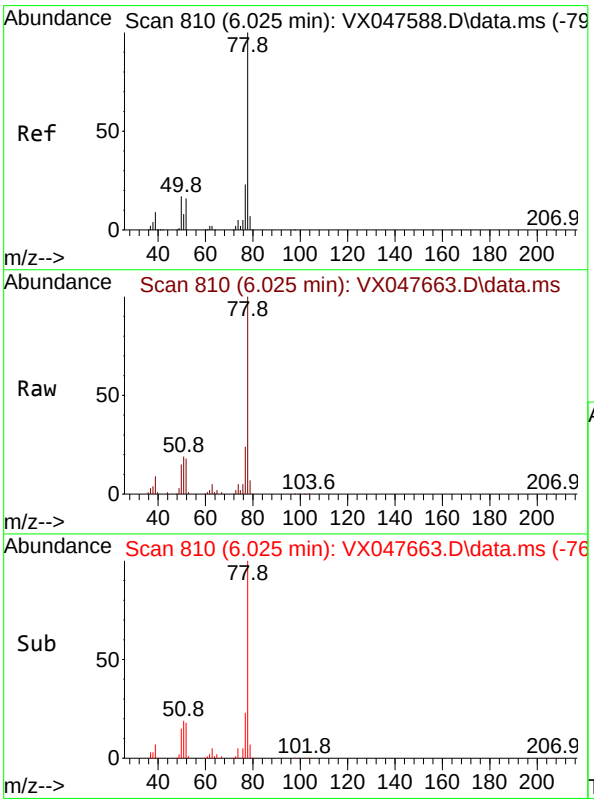
#39
Methylcyclohexane
Concen: 20.500 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 83 Resp: 76946

Ion	Ratio	Lower	Upper
83	100		
55	79.8	66.4	99.6
98	45.5	38.1	57.1

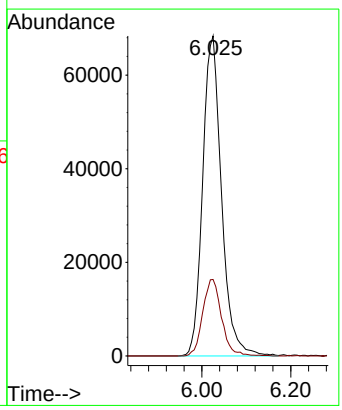


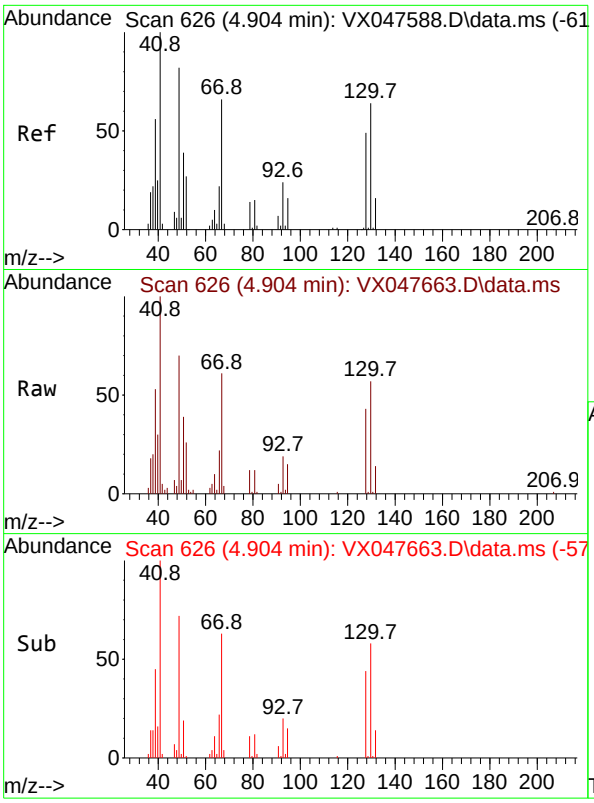


#40
Benzene
Concen: 20.095 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 78 Resp: 201814

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2



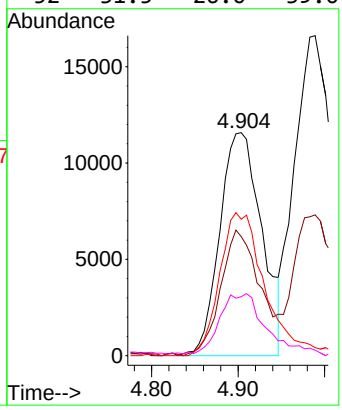


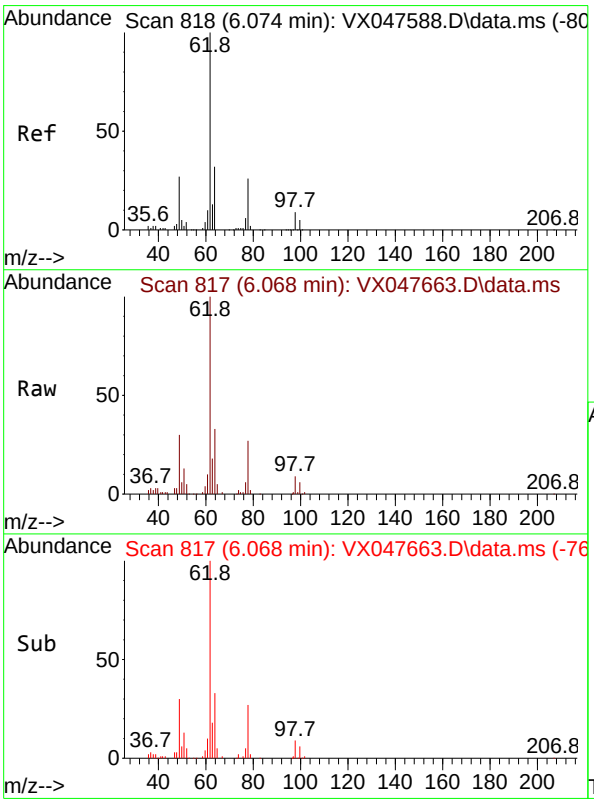
#41
Methacrylonitrile
Concen: 21.362 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 41 Resp: 39044

Ion	Ratio	Lower	Upper
41	100		
39	50.9	43.3	64.9
67	69.4	58.6	87.8
52	31.5	26.0	39.0

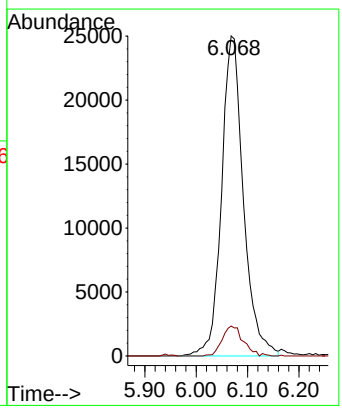


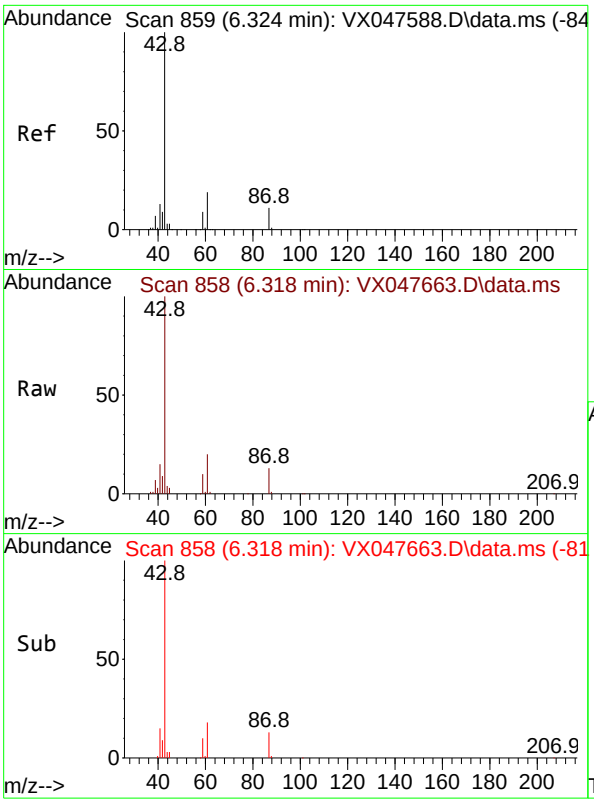


#42
1,2-Dichloroethane
Concen: 19.343 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 62 Resp: 73915

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0



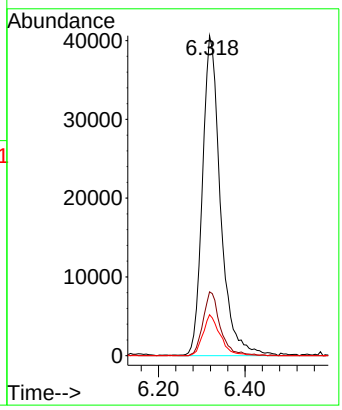


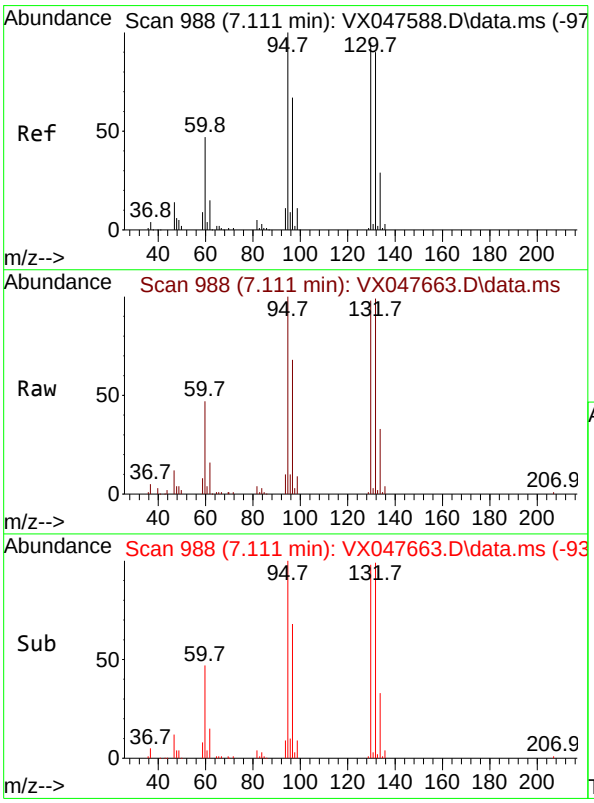
#43
Isopropyl Acetate
Concen: 20.269 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 43 Resp: 117690

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.3	9.6	14.4

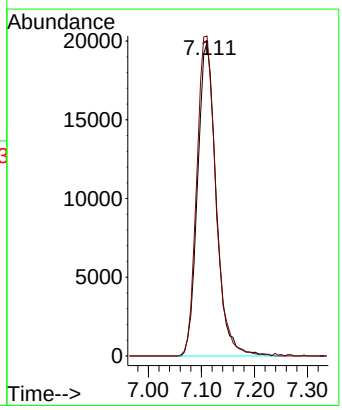


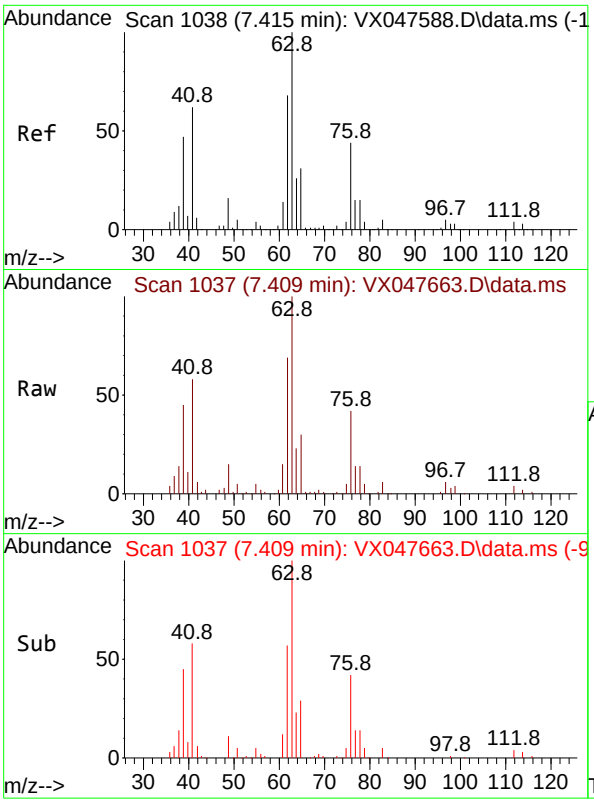


#44
Trichloroethene
Concen: 19.988 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:130 Resp: 48532

Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	210.8



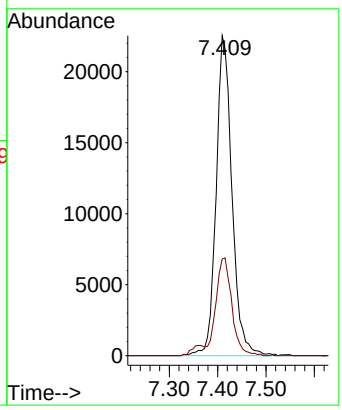


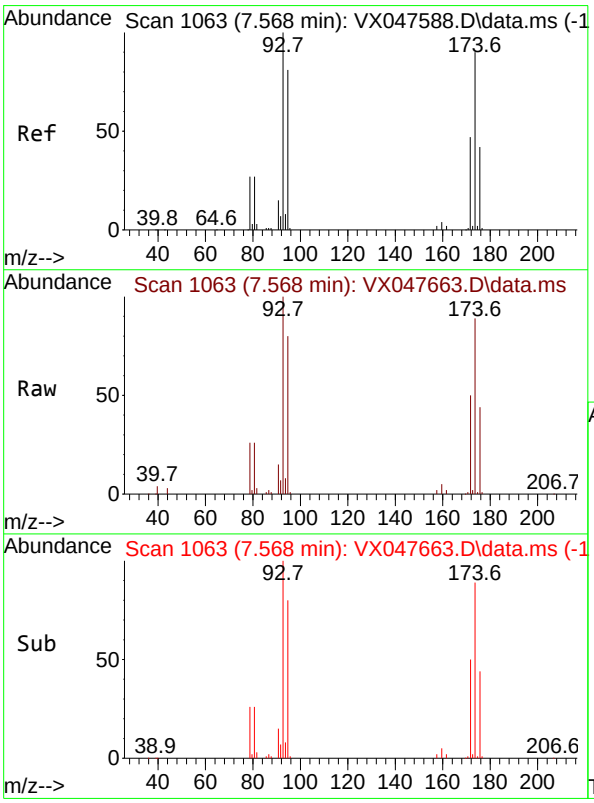
#45
1,2-Dichloropropane
Concen: 19.941 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 63 Resp: 51280

Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.7	37.1

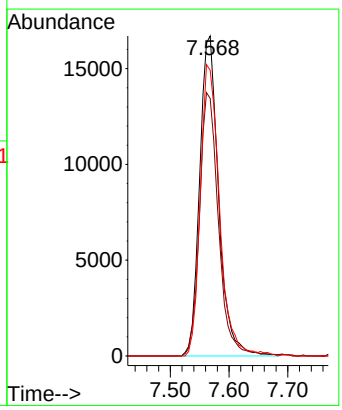


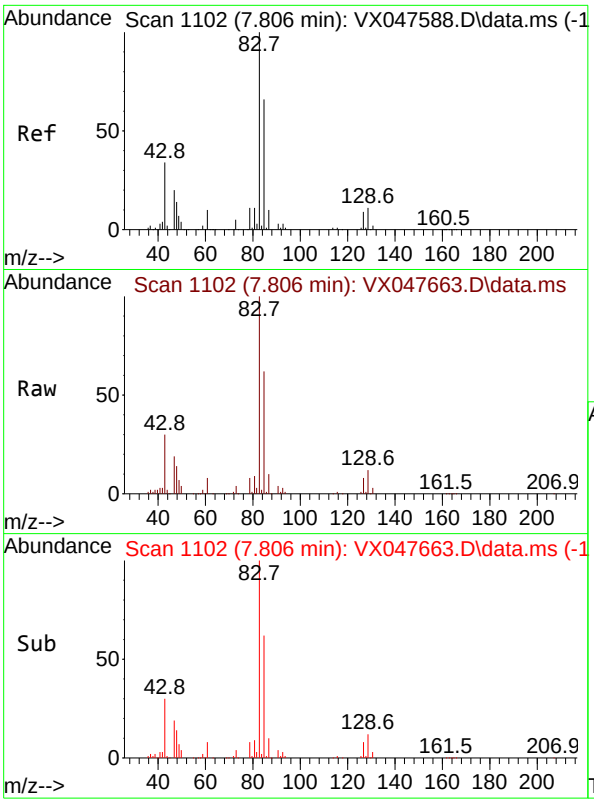


#46
Dibromomethane
Concen: 19.938 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 93 Resp: 37312

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.0	97.6
174	92.5	71.6	107.4



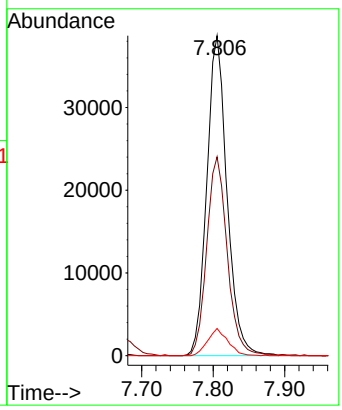


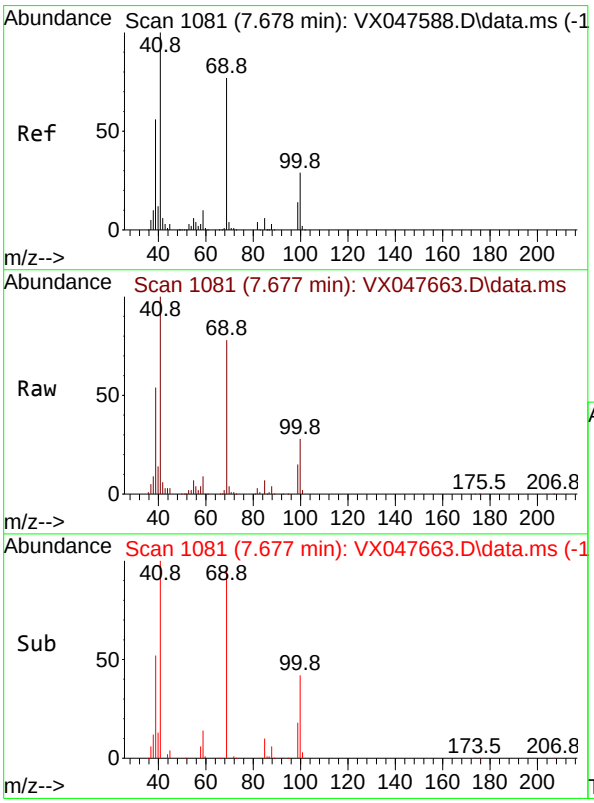
#47
Bromodichloromethane
Concen: 19.667 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 83 Resp: 75948

Ion	Ratio	Lower	Upper
83	100		
85	62.2	52.5	78.7
127	8.5	6.9	10.3

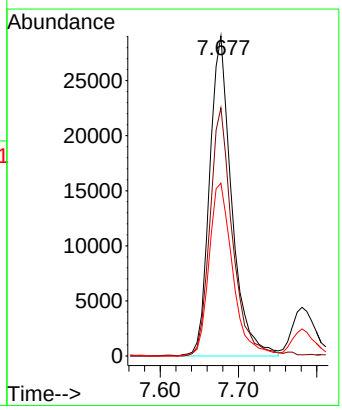


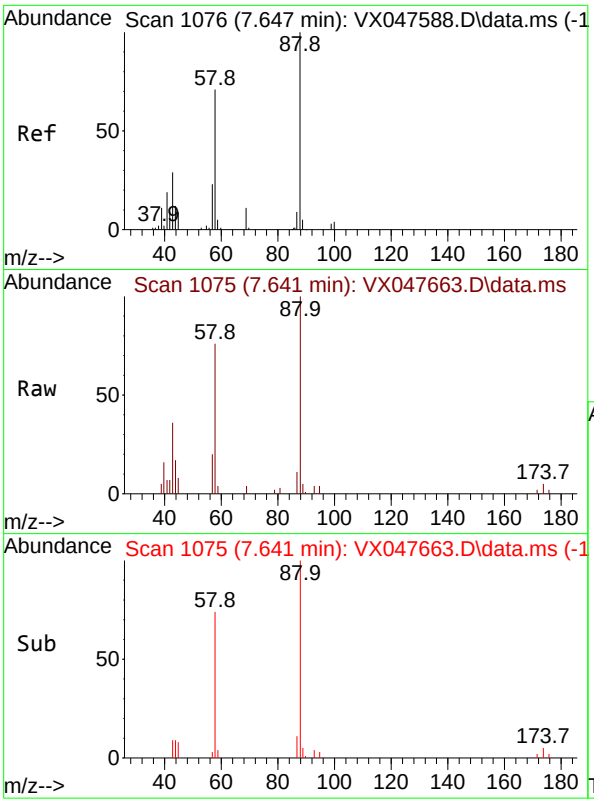


#48
Methyl methacrylate
Concen: 19.745 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 41 Resp: 57109

Ion	Ratio	Lower	Upper
41	100		
69	78.5	61.4	92.2
39	57.6	45.8	68.6



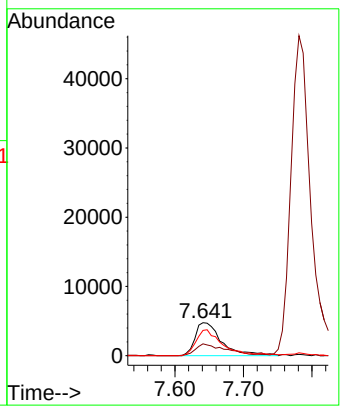


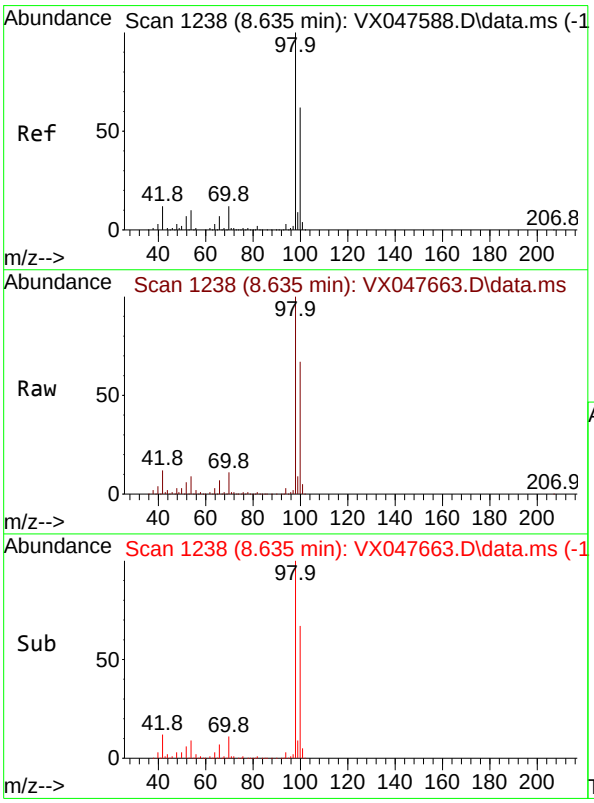
#49
1,4-Dioxane
Concen: 442.088 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 88 Resp: 12922

Ion	Ratio	Lower	Upper
88	100		
43	42.3	30.2	45.2
58	75.2	59.5	89.3

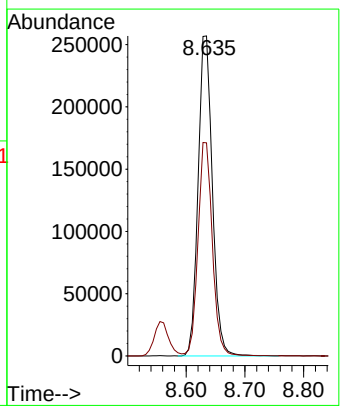


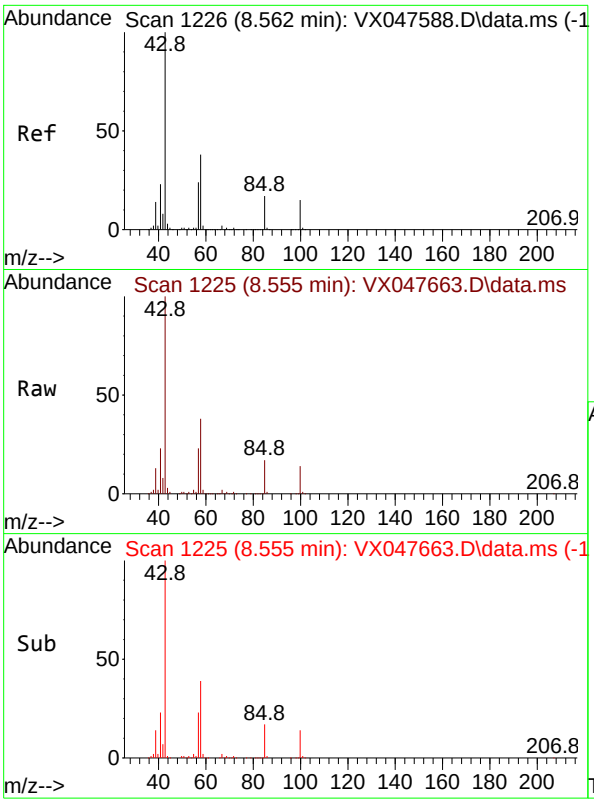


#50
Toluene-d8
Concen: 55.436 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 98 Resp: 434063

Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.0	79.4



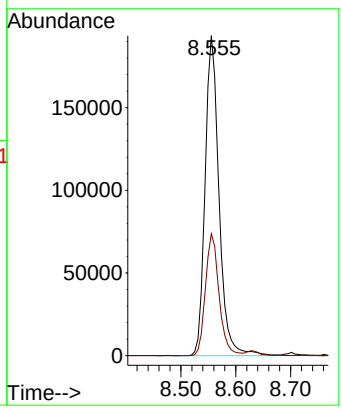


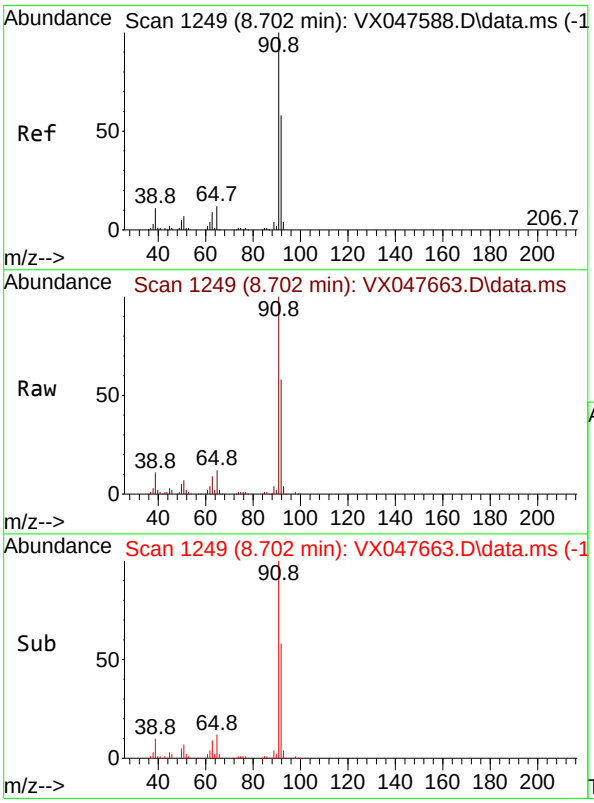
#51
4-Methyl-2-Pentanone
Concen: 105.728 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 43 Resp: 340376

Ion	Ratio	Lower	Upper
43	100		
58	37.3	30.3	45.5

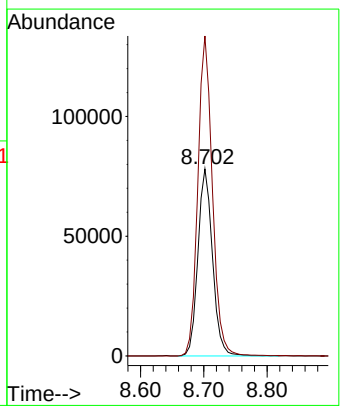


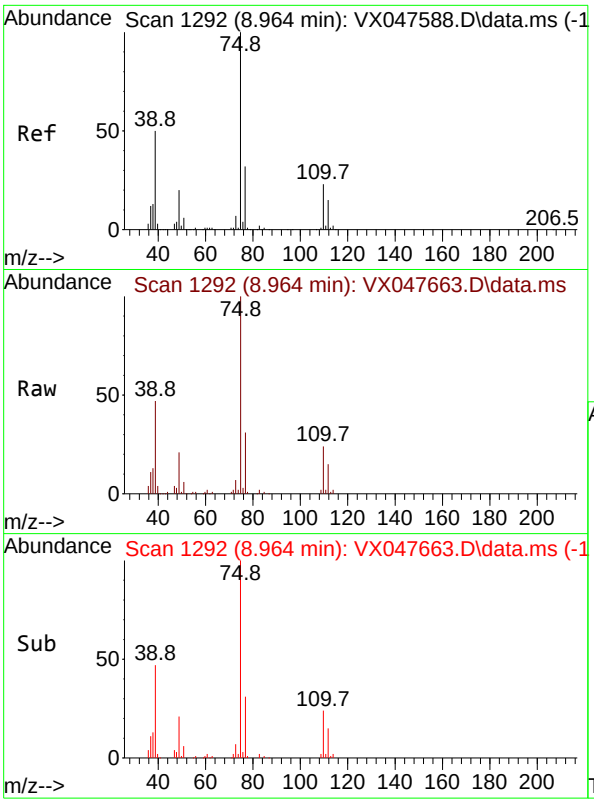


#52
Toluene
Concen: 20.286 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 92 Resp: 125521

Ion	Ratio	Lower	Upper
92	100		
91	170.8	137.1	205.7



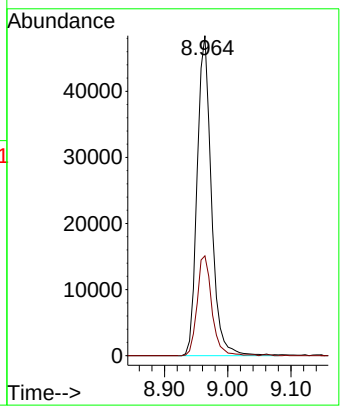


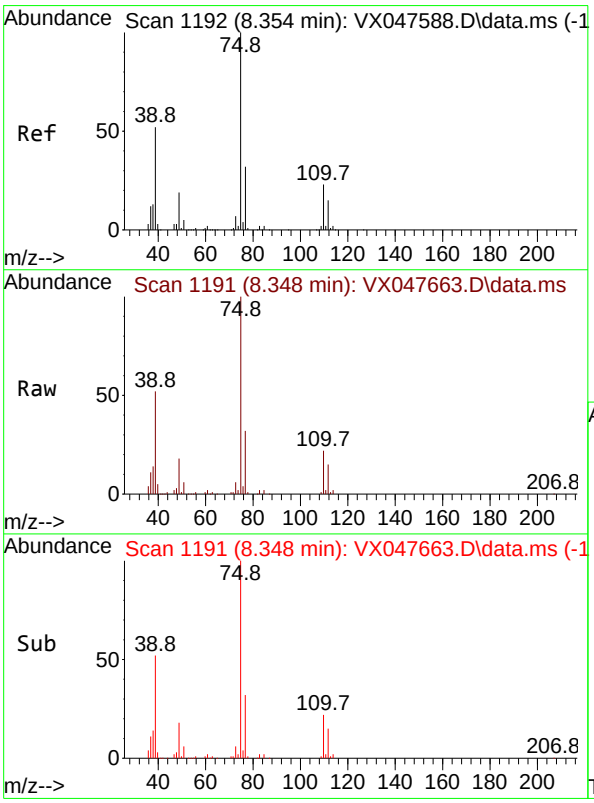
#53
t-1,3-Dichloropropene
Concen: 19.294 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 75 Resp: 75998

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.2

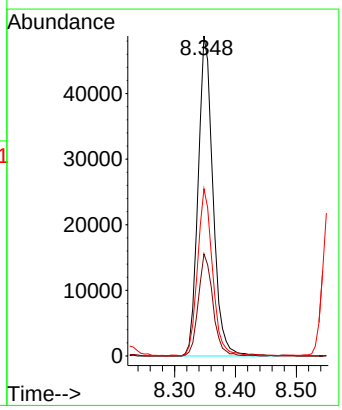


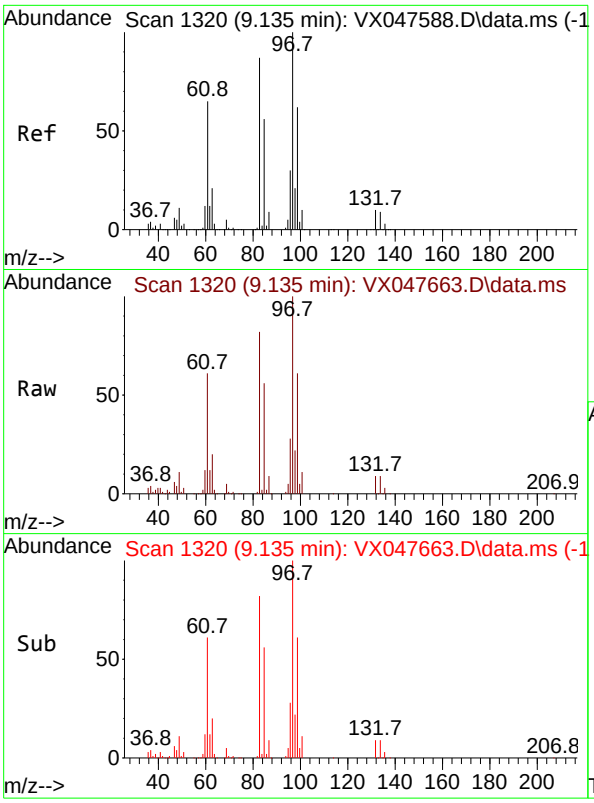


#54
cis-1,3-Dichloropropene
Concen: 19.649 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 82725

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.8	38.6
39	52.1	41.4	62.2



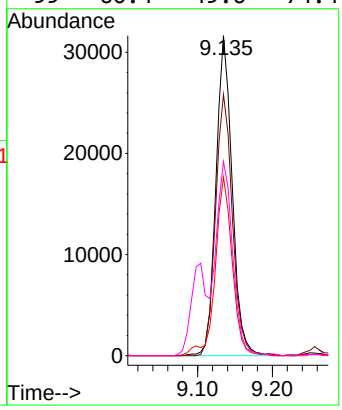


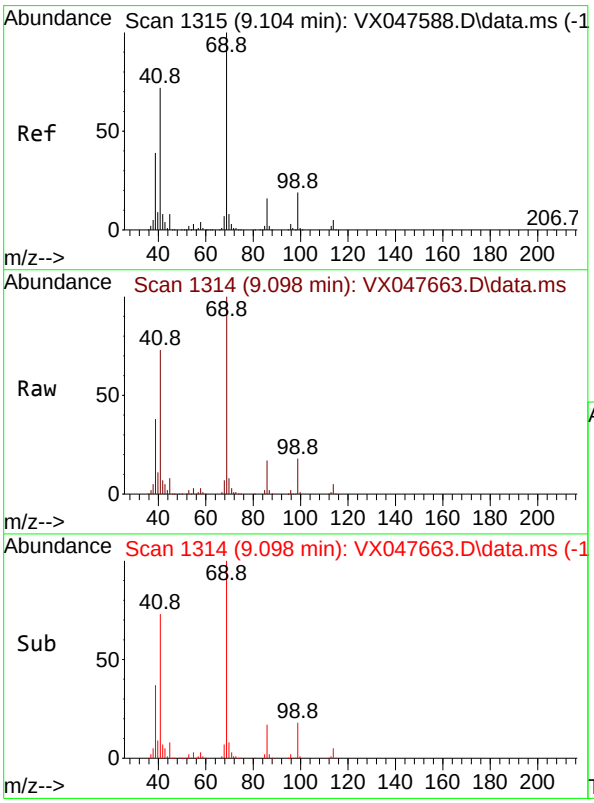
#55
1,1,2-Trichloroethane
Concen: 20.021 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 97 Resp: 47766

Ion	Ratio	Lower	Upper
97	100		
83	81.6	69.6	104.4
85	55.8	45.0	67.6
99	60.4	49.6	74.4

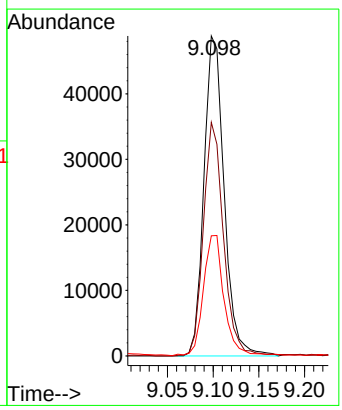


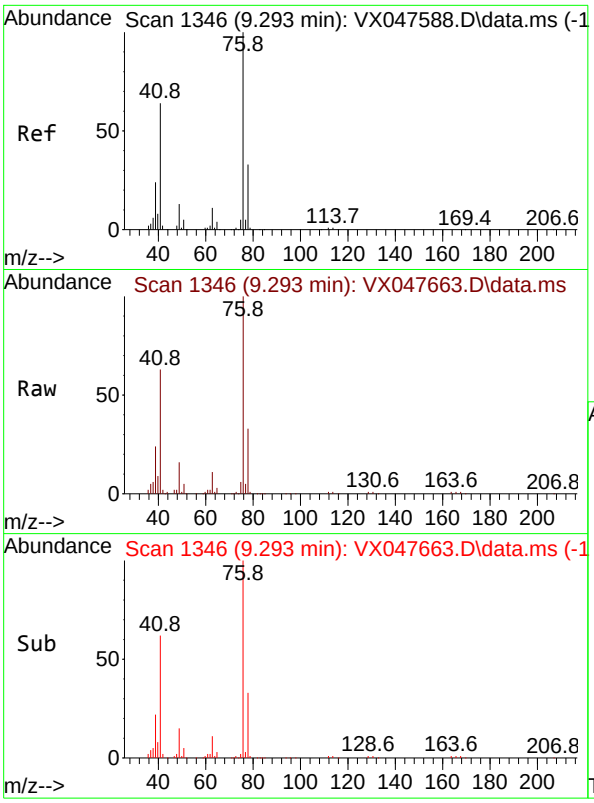


#56
Ethyl methacrylate
Concen: 19.988 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 69 Resp: 74891

Ion	Ratio	Lower	Upper
69	100		
41	73.1	58.6	87.8
39	38.6	31.5	47.3



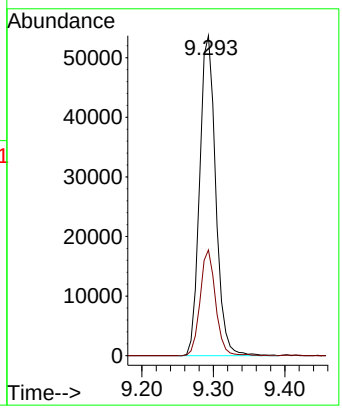


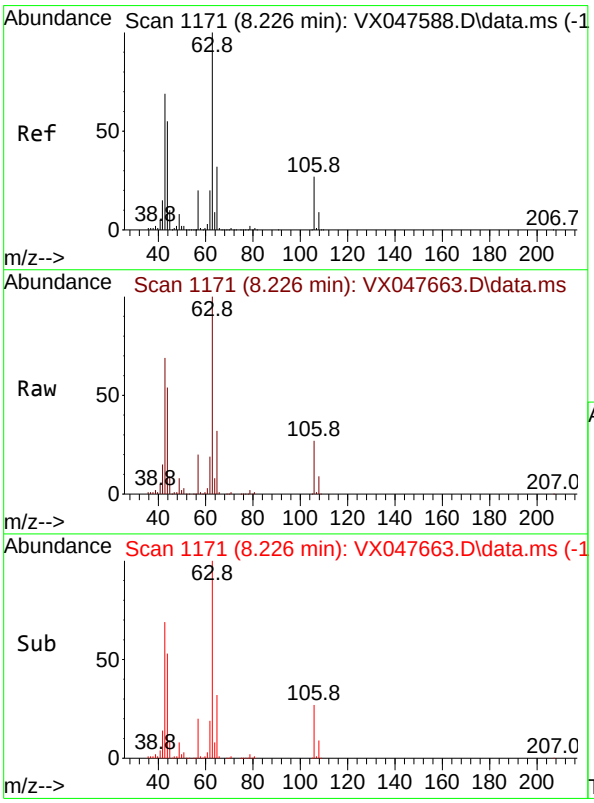
#57
1,3-Dichloropropane
Concen: 20.427 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 76 Resp: 83720

Ion	Ratio	Lower	Upper
76	100		
78	31.7	26.2	39.4

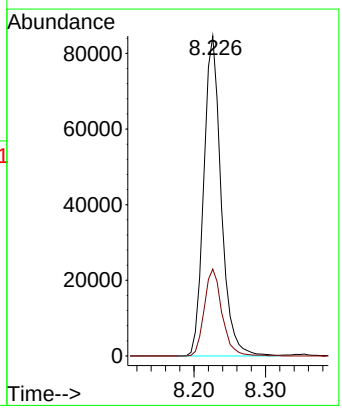


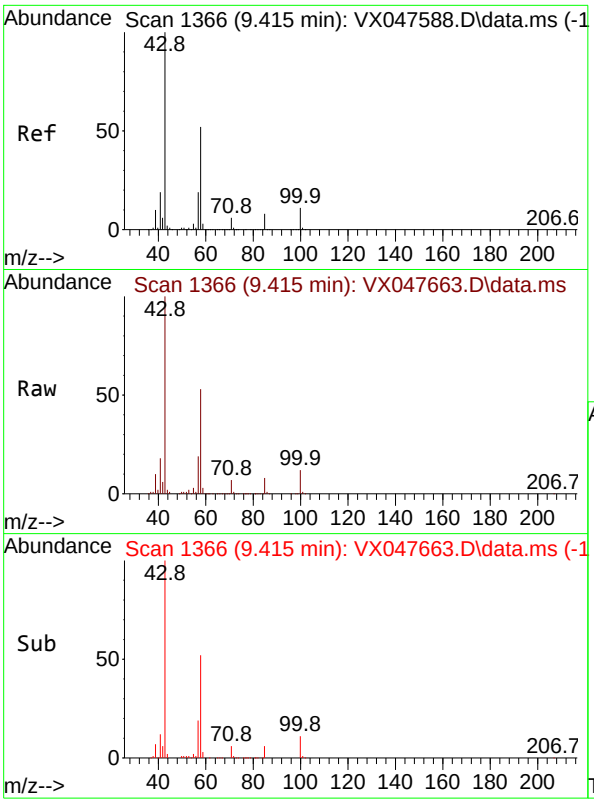


#58
2-Chloroethyl Vinyl ether
Concen: 87.280 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 63 Resp: 143078

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9



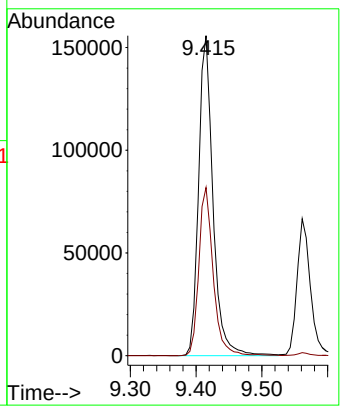


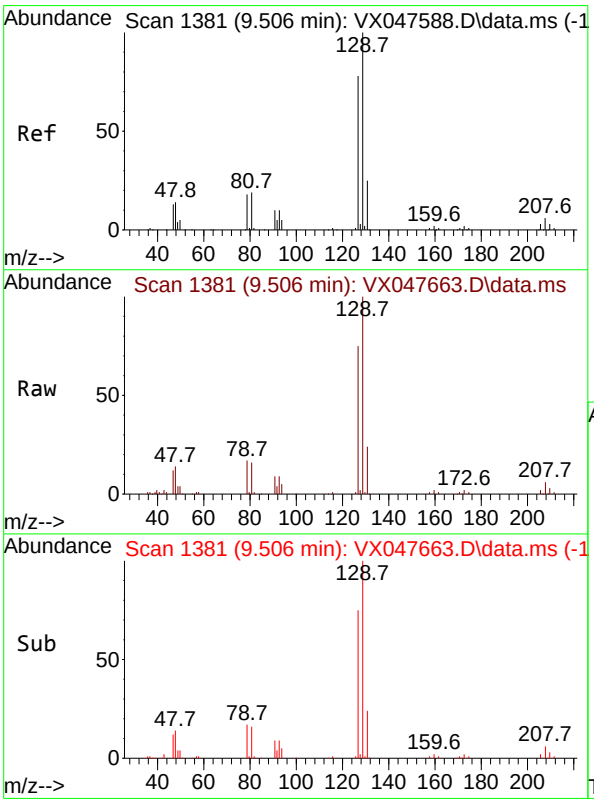
#59
2-Hexanone
Concen: 102.353 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 43 Resp: 236656

Ion	Ratio	Lower	Upper
43	100		
58	52.5	26.1	78.2

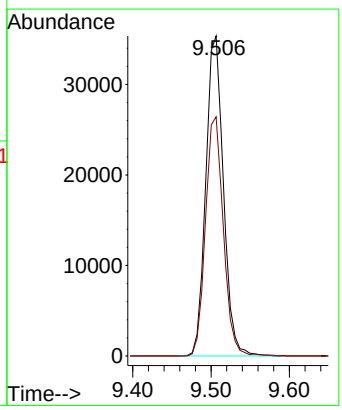


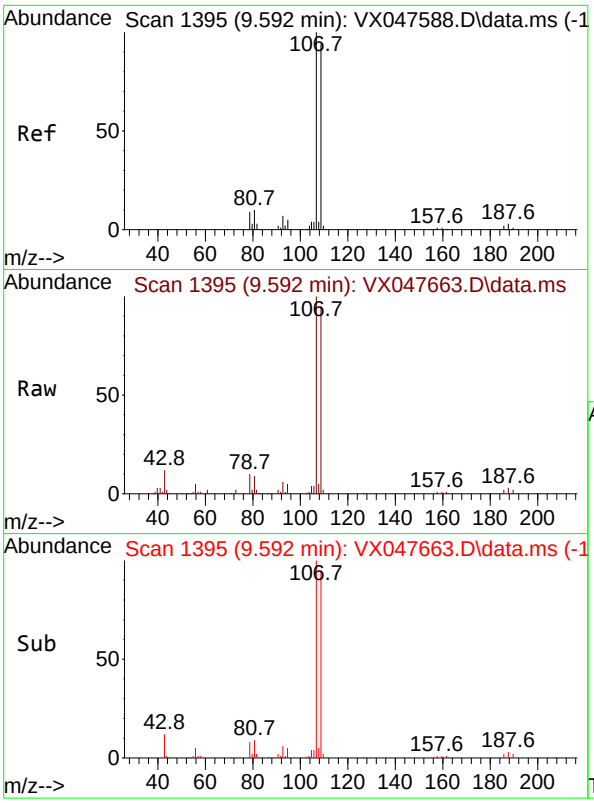


#60
Dibromochloromethane
Concen: 20.047 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:129 Resp: 55109

Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.4	115.2



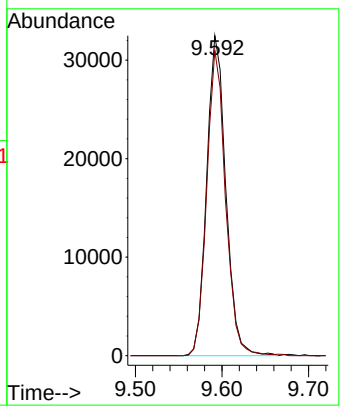


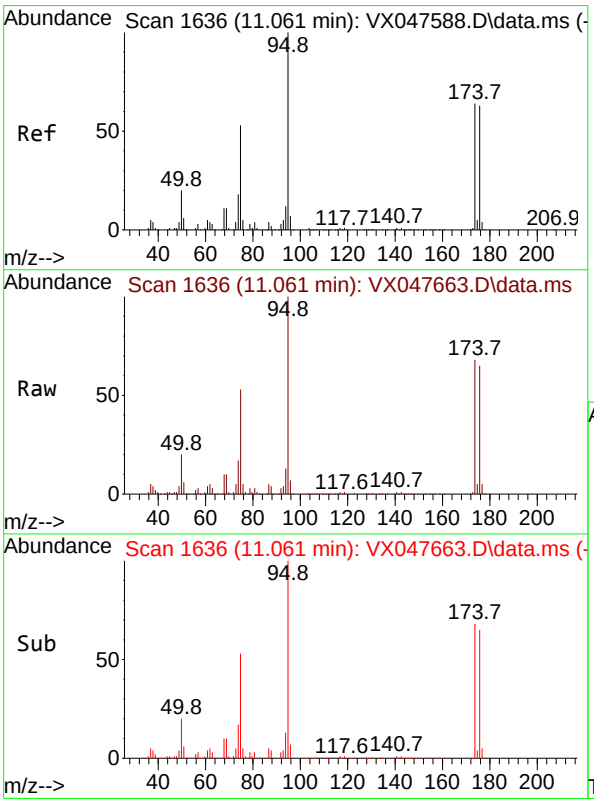
#61
1,2-Dibromoethane
Concen: 20.516 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:107 Resp: 49855

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.3	112.9

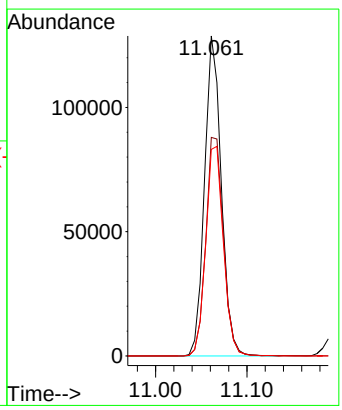


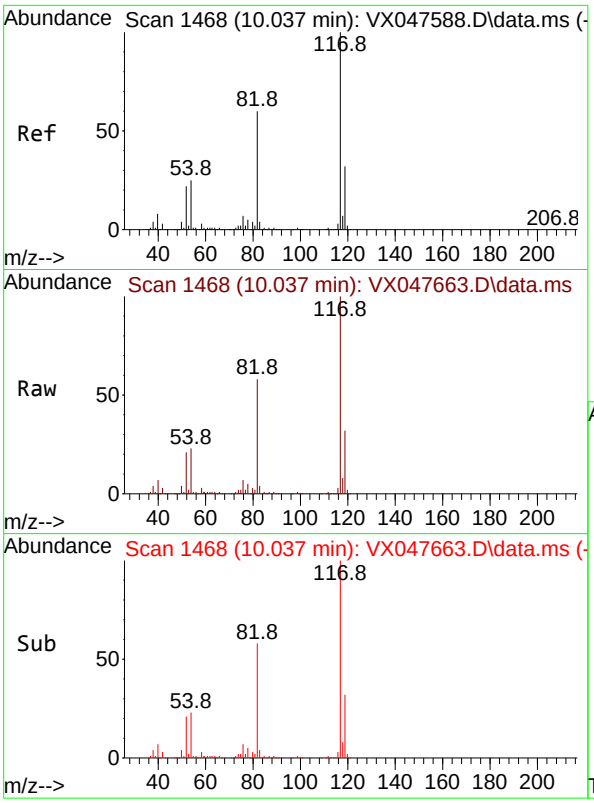


#62
4-Bromofluorobenzene
Concen: 55.000 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 95 Resp: 163439

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.6
176	69.2	0.0	138.4



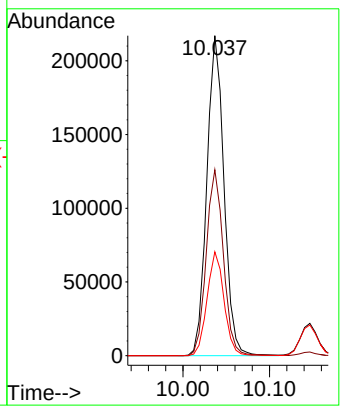


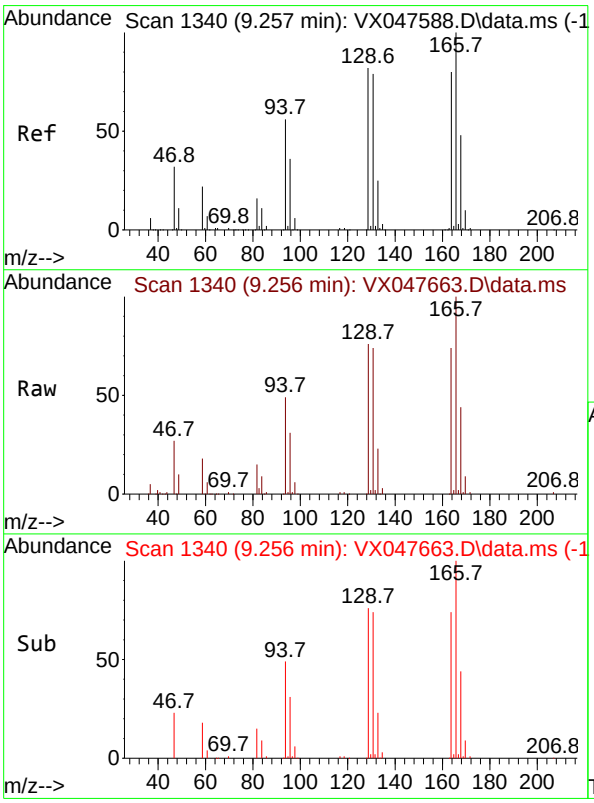
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:117 Resp: 298577

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	32.5	25.2	37.8

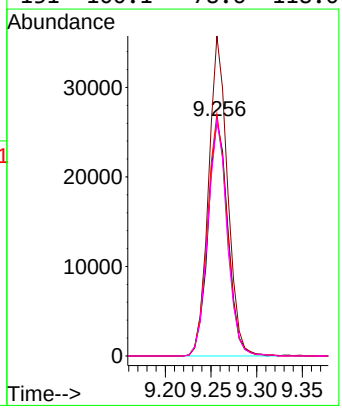


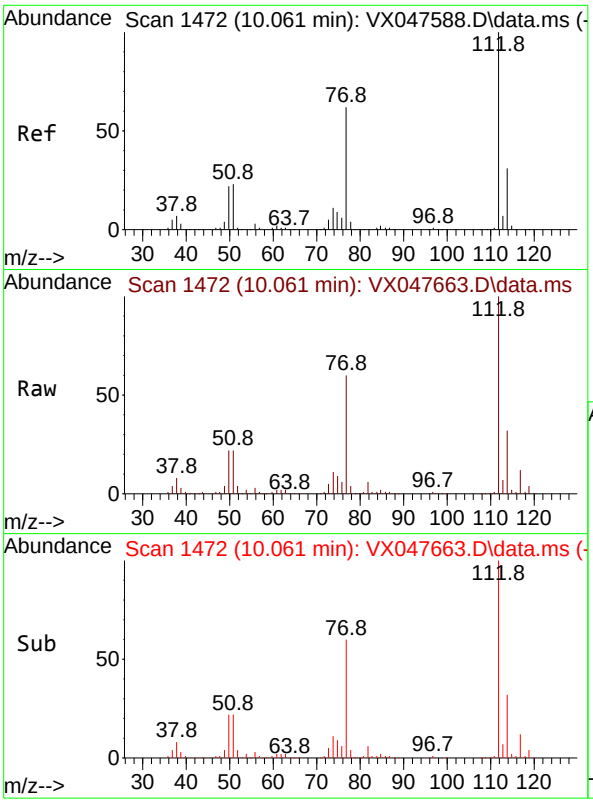


#64
Tetrachloroethene
Concen: 20.395 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:164 Resp: 39697

Ion	Ratio	Lower	Upper
164	100		
166	135.9	100.2	150.2
129	102.8	81.8	122.6
131	100.1	78.6	118.0



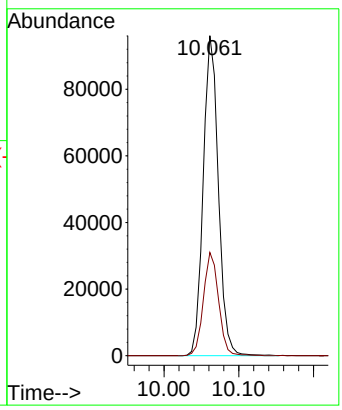


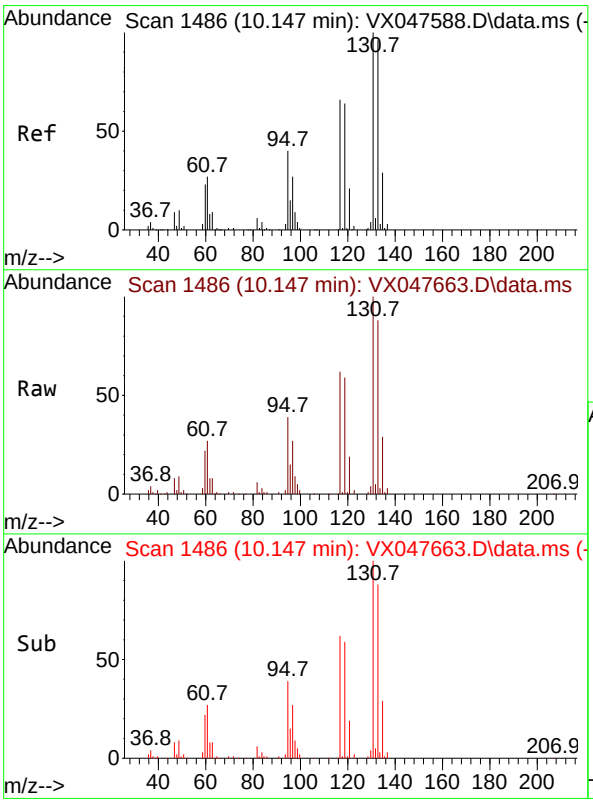
#65
Chlorobenzene
Concen: 19.879 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:112 Resp: 134843

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.1	37.7

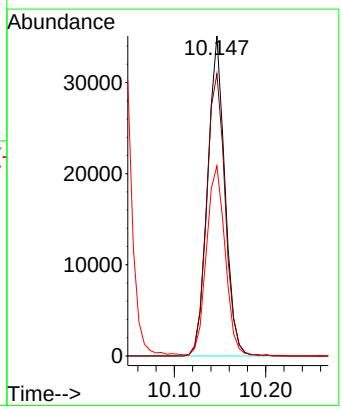


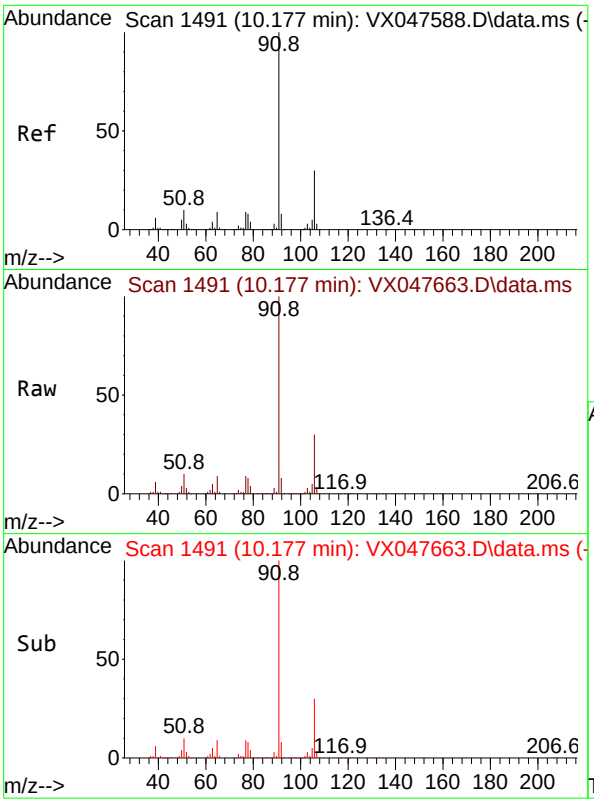


#66
1,1,1,2-Tetrachloroethane
Concen: 19.758 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:131 Resp: 46247

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.3	142.0
119	64.0	32.0	96.0



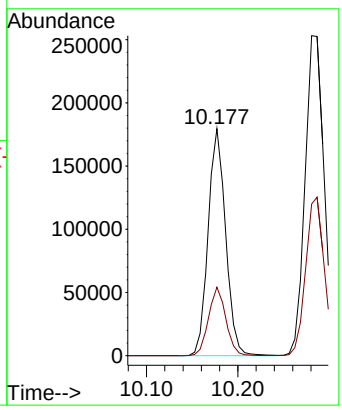


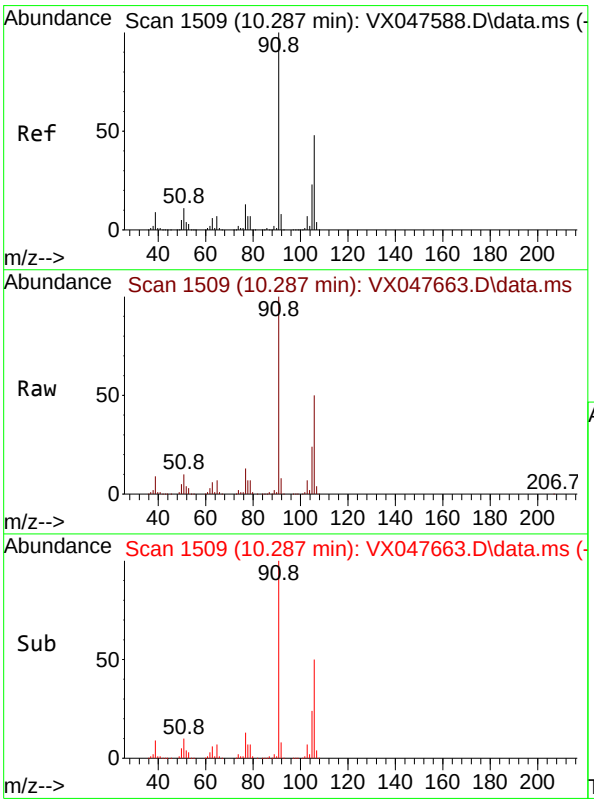
#67
Ethyl Benzene
Concen: 20.374 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 91 Resp: 238457

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.3	36.5

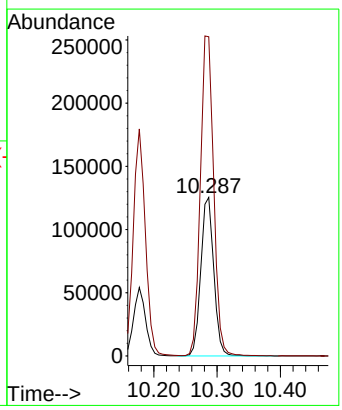


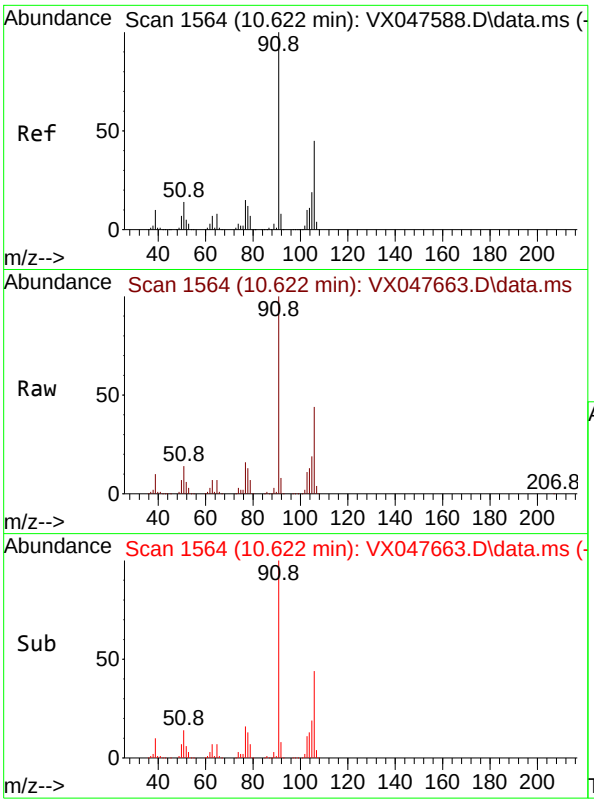


#68
m/p-Xylenes
Concen: 41.206 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:106 Resp: 179504

Ion	Ratio	Lower	Upper
106	100		
91	206.9	167.8	251.8



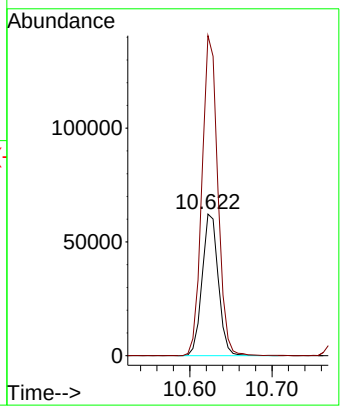


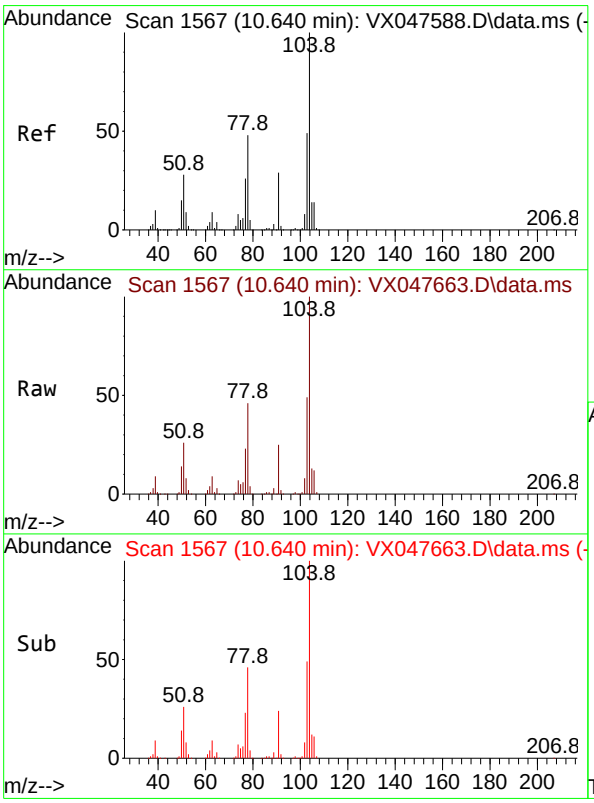
#69
o-Xylene
Concen: 20.146 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:106 Resp: 84887

Ion	Ratio	Lower	Upper
106	100		
91	222.0	111.1	333.4

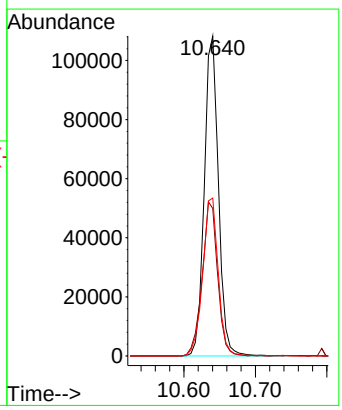


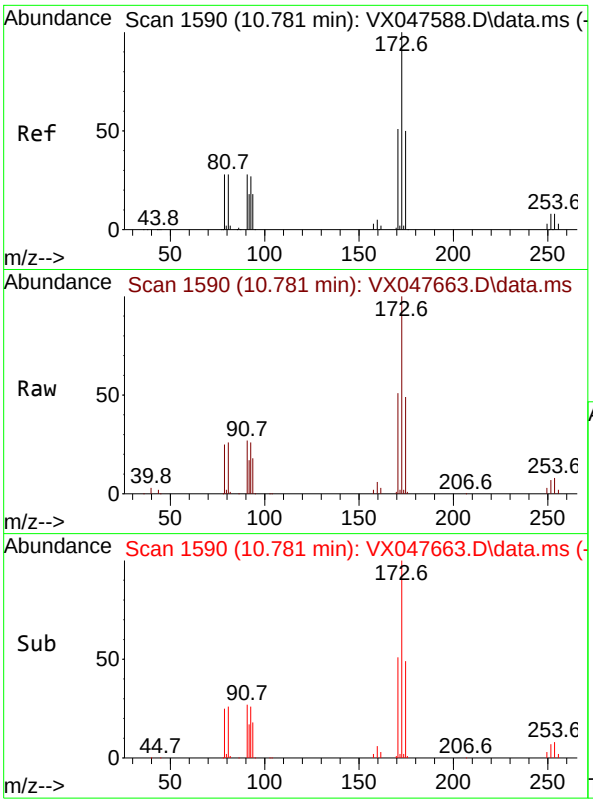


#70
Styrene
Concen: 20.153 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:104 Resp: 148789

Ion	Ratio	Lower	Upper
104	100		
78	52.5	43.1	64.7
103	54.3	43.1	64.7



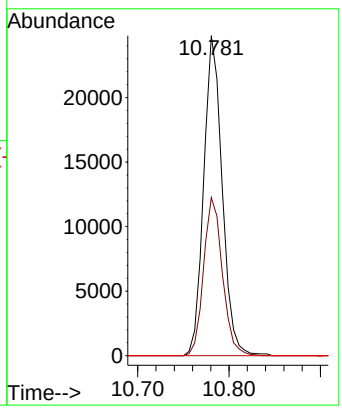


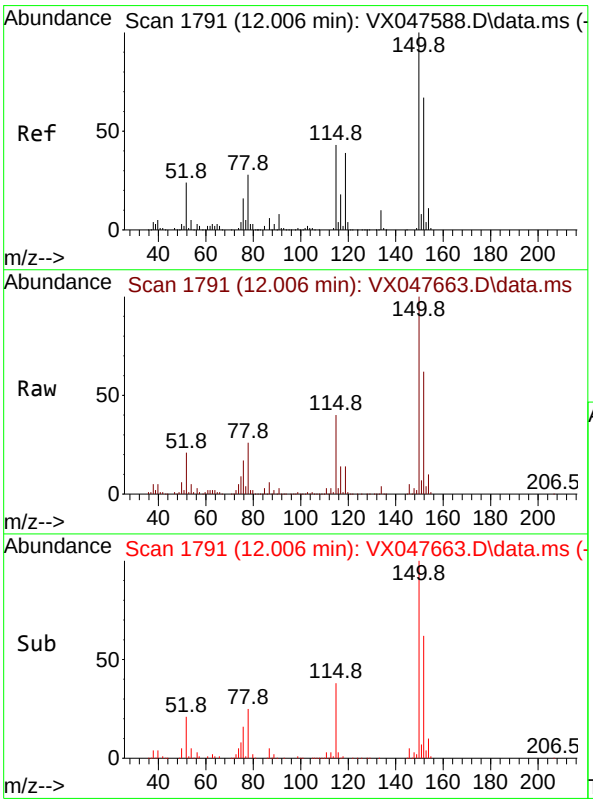
#71
Bromoform
Concen: 19.876 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:173 Resp: 34739

Ion	Ratio	Lower	Upper
173	100		
175	50.3	24.9	74.6
254	0.0	0.1	0.1#

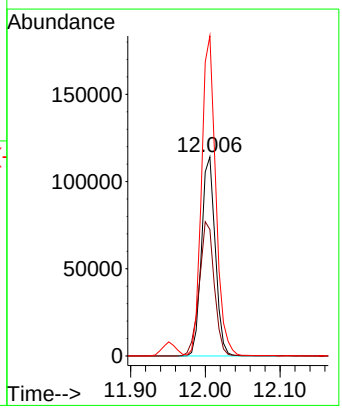


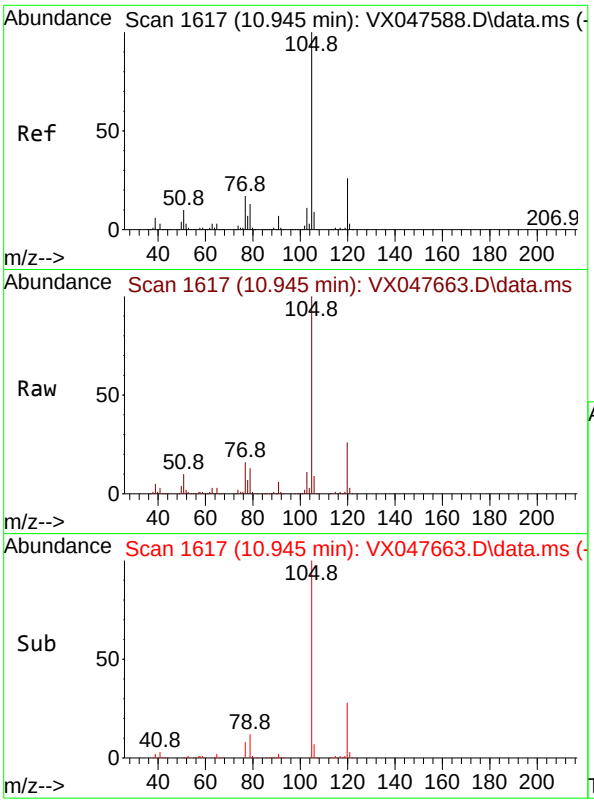


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:152 Resp: 146041

Ion	Ratio	Lower	Upper
152	100		
115	73.4	44.9	134.5
150	166.7	0.0	352.0



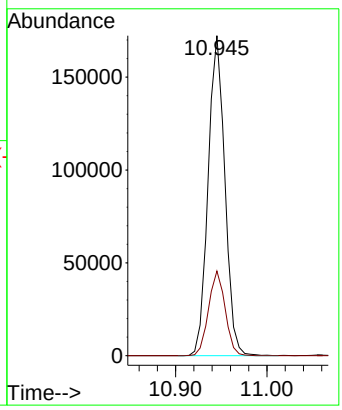


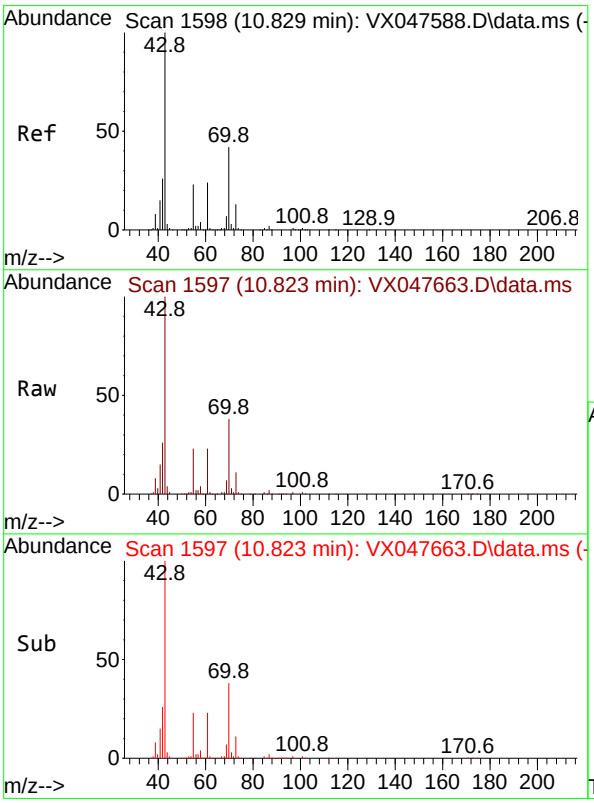
#73
Isopropylbenzene
Concen: 19.692 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:105 Resp: 218637

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4

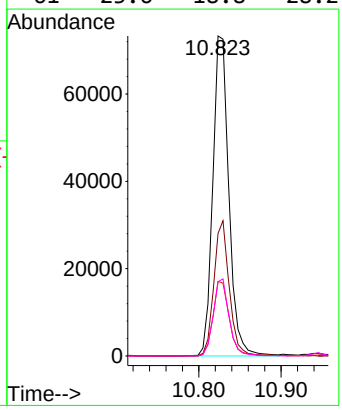


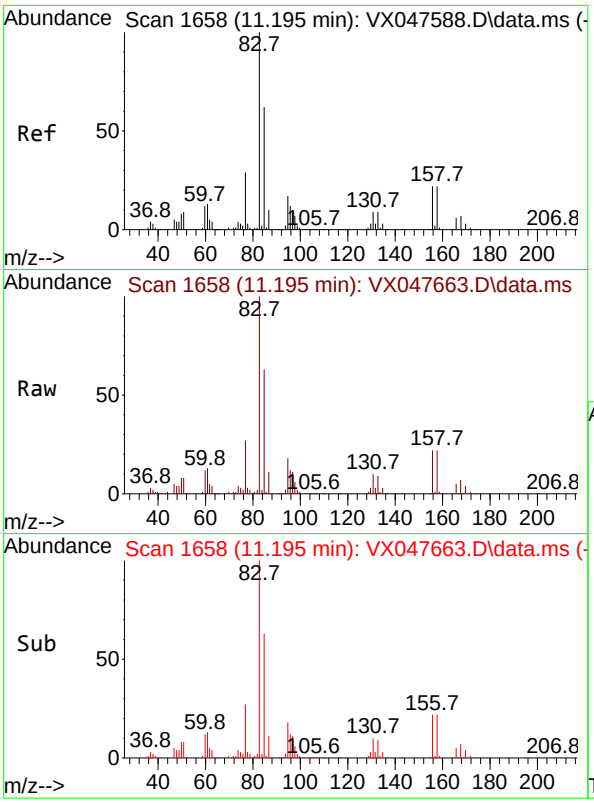


#74
N-amyl acetate
Concen: 19.678 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 43 Resp: 99633

Ion	Ratio	Lower	Upper
43	100		
70	40.5	32.0	48.0
55	23.8	18.9	28.3
61	23.6	18.8	28.2



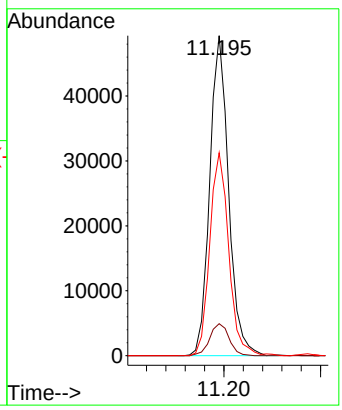


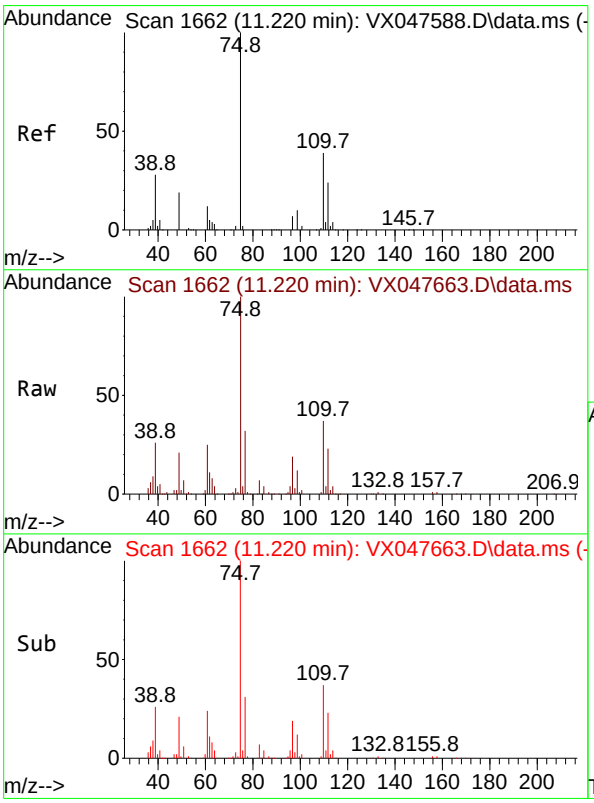
#75
1,1,2,2-Tetrachloroethane
Concen: 19.852 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 83 Resp: 66686

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	63.9	31.6	95.0

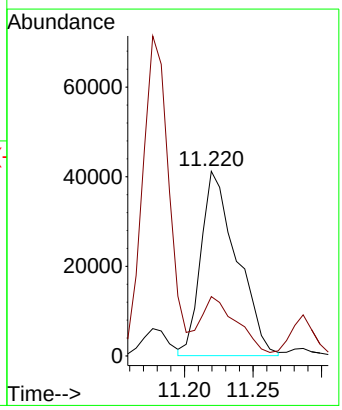


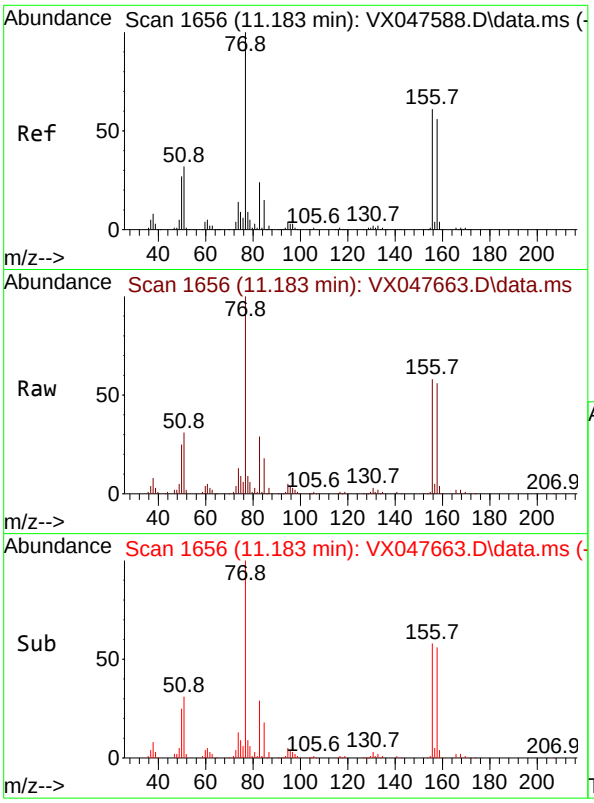


#76
1,2,3-Trichloropropane
Concen: 25.444 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 75234

Ion	Ratio	Lower	Upper
75	100		
77	30.7	18.8	56.4



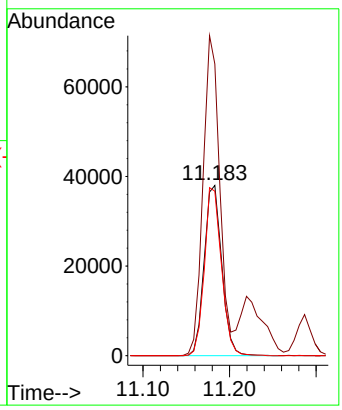


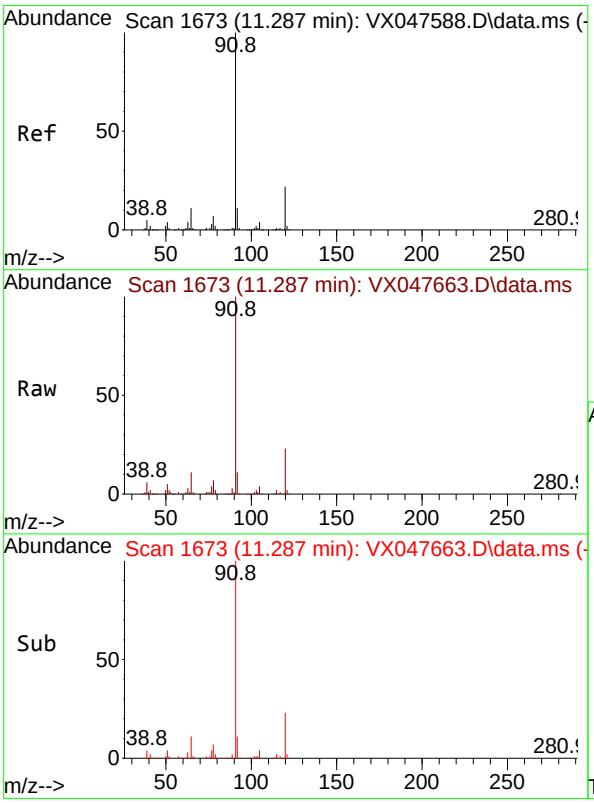
#77
Bromobenzene
Concen: 19.571 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:156 Resp: 53519

Ion	Ratio	Lower	Upper
156	100		
77	177.7	89.7	269.1
158	96.3	47.9	143.6

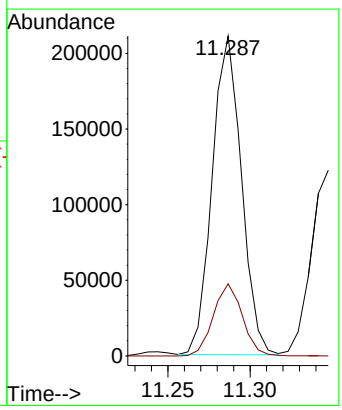


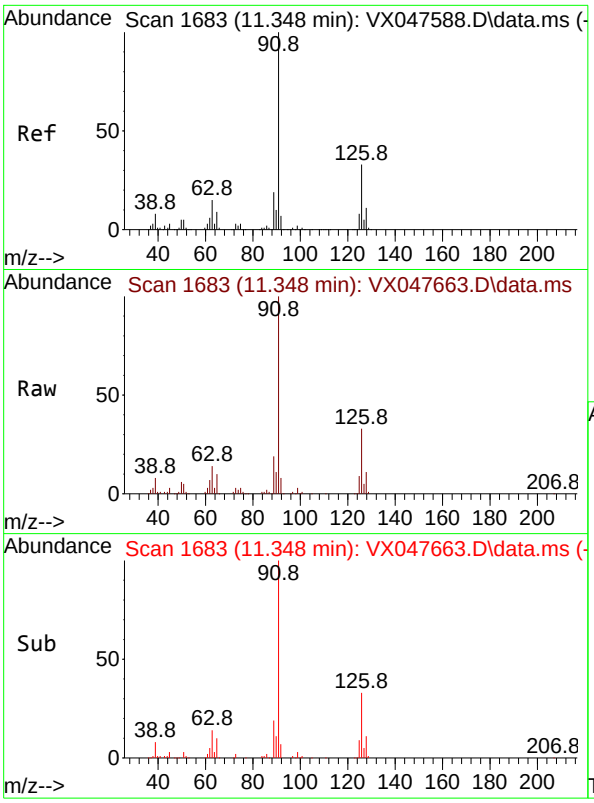


#78
n-propylbenzene
Concen: 19.847 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 91 Resp: 260496

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1



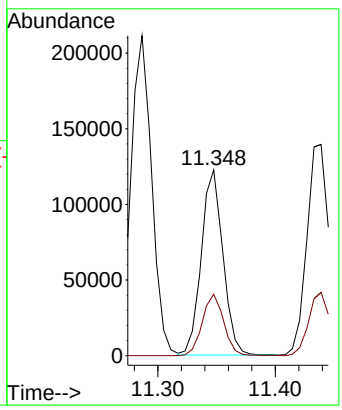


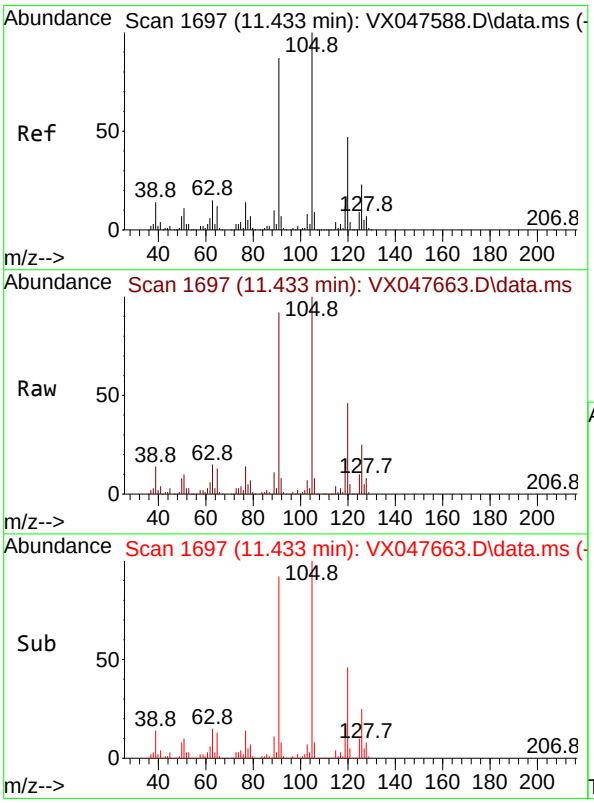
#79
2-Chlorotoluene
Concen: 19.476 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 91 Resp: 156568

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.1	48.3

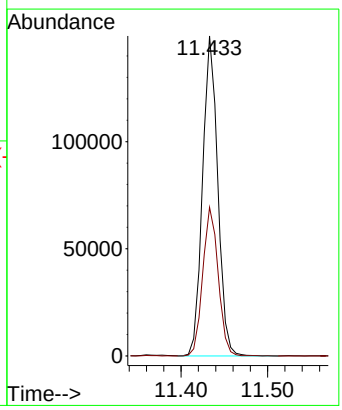


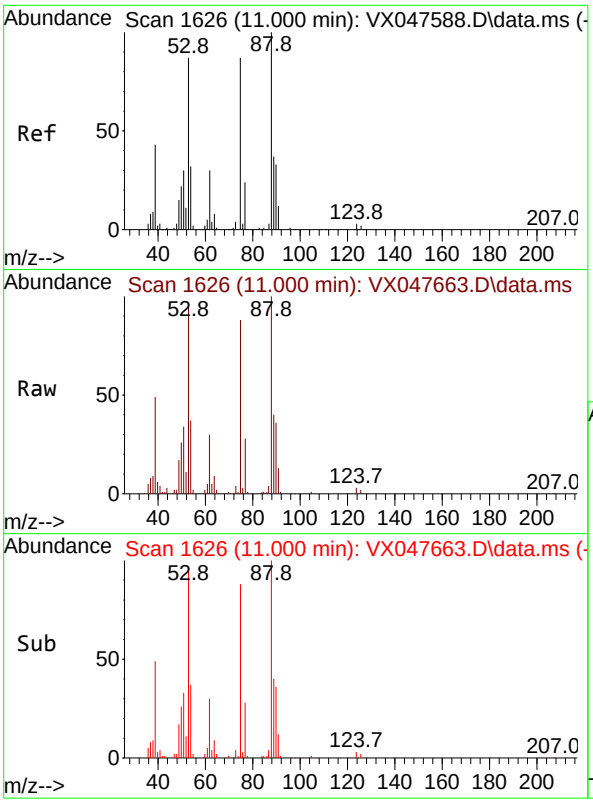


#80
1,3,5-Trimethylbenzene
Concen: 19.931 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:105 Resp: 181815

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8



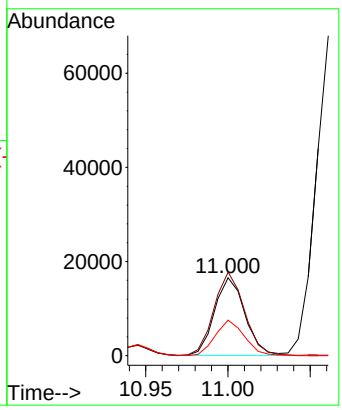


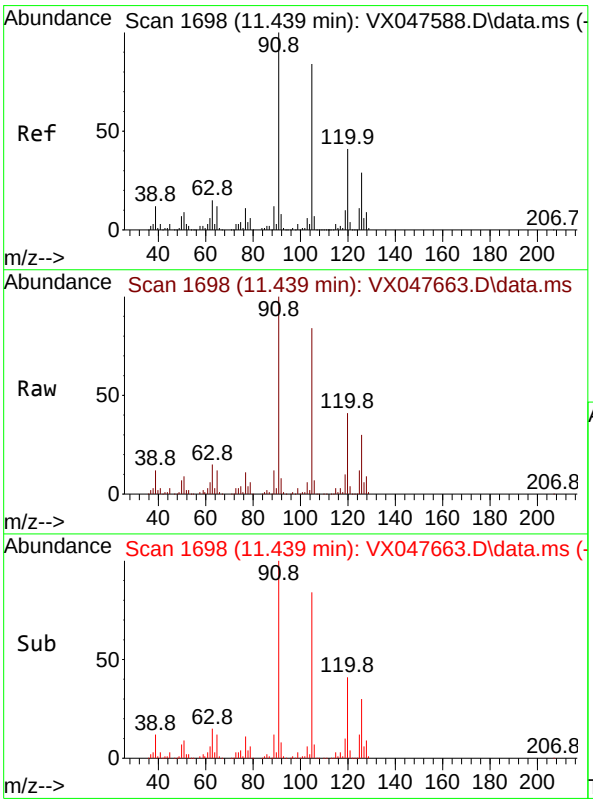
#81
trans-1,4-Dichloro-2-butene
Concen: 18.252 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 75 Resp: 21163

Ion	Ratio	Lower	Upper
75	100		
53	108.0	83.4	125.2
89	44.1	36.3	54.5

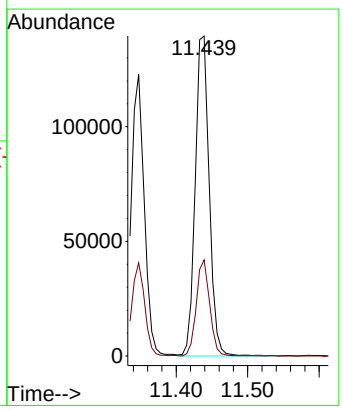


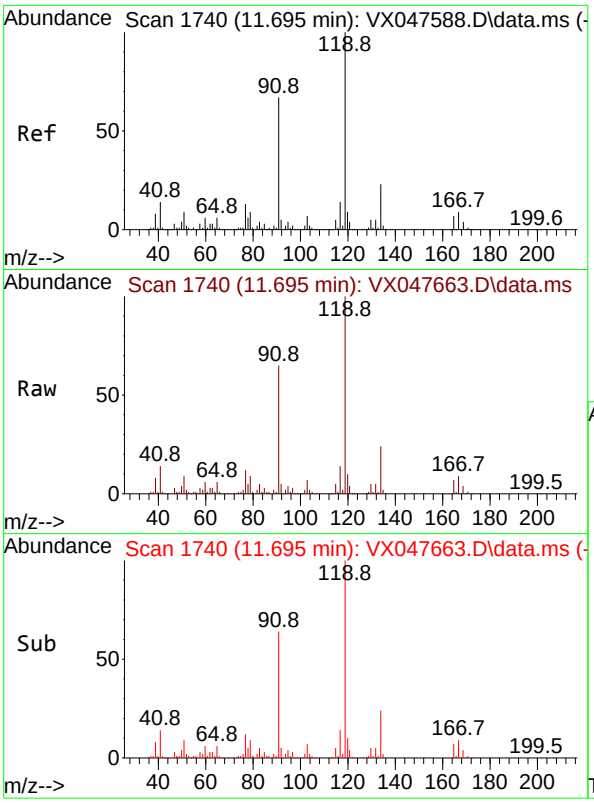


#82
4-Chlorotoluene
Concen: 19.954 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 91 Resp: 189446

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6



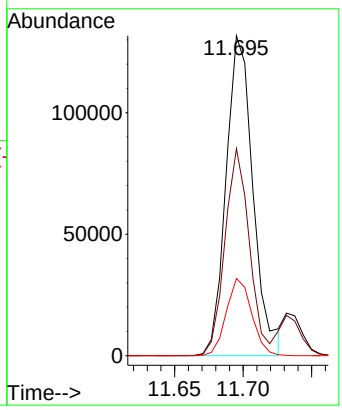


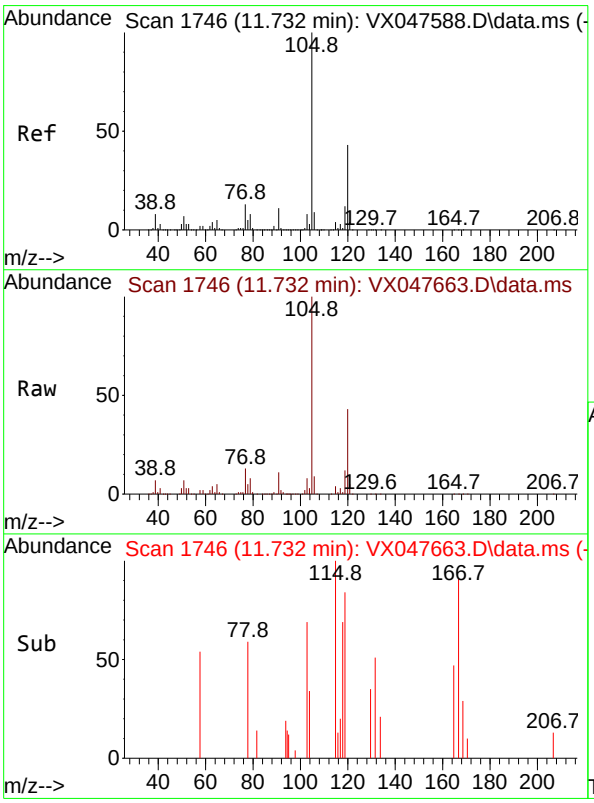
#83
tert-Butylbenzene
Concen: 19.298 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:119 Resp: 180209

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.7	11.0	33.0

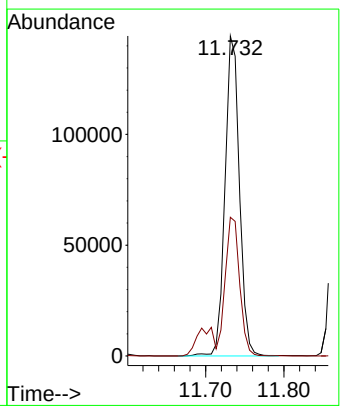


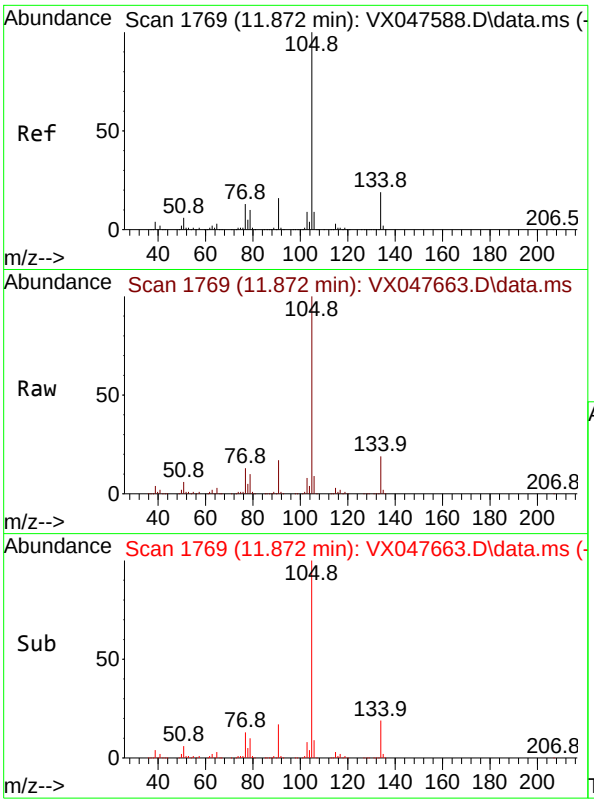


#84
1,2,4-Trimethylbenzene
Concen: 19.979 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:105 Resp: 184775

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1



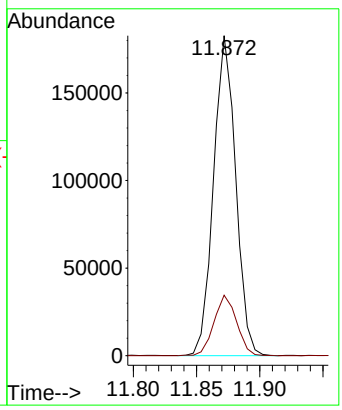


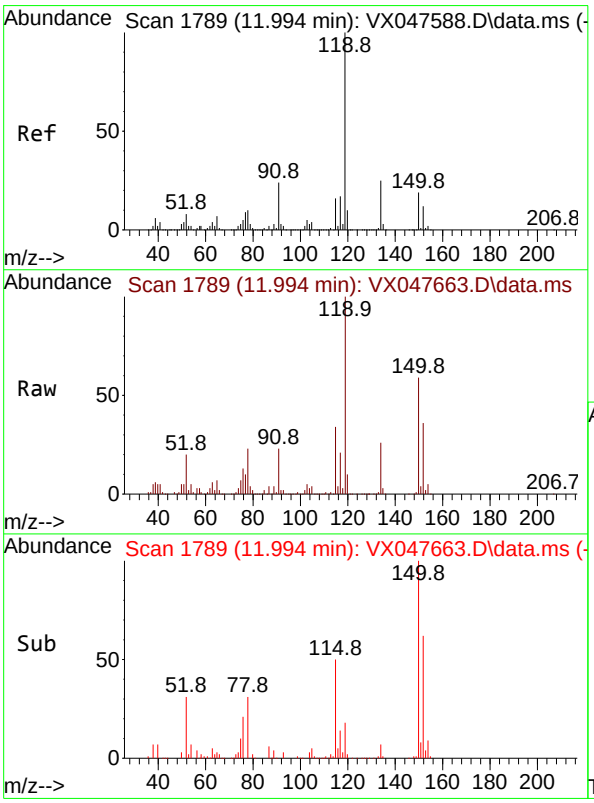
#85
sec-Butylbenzene
Concen: 20.014 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:105 Resp: 221990

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.5

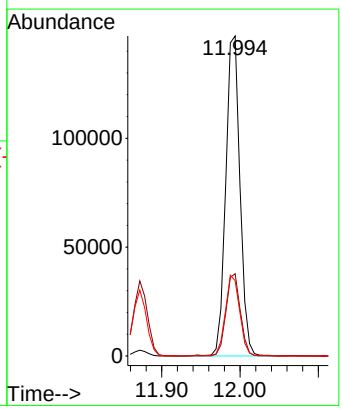


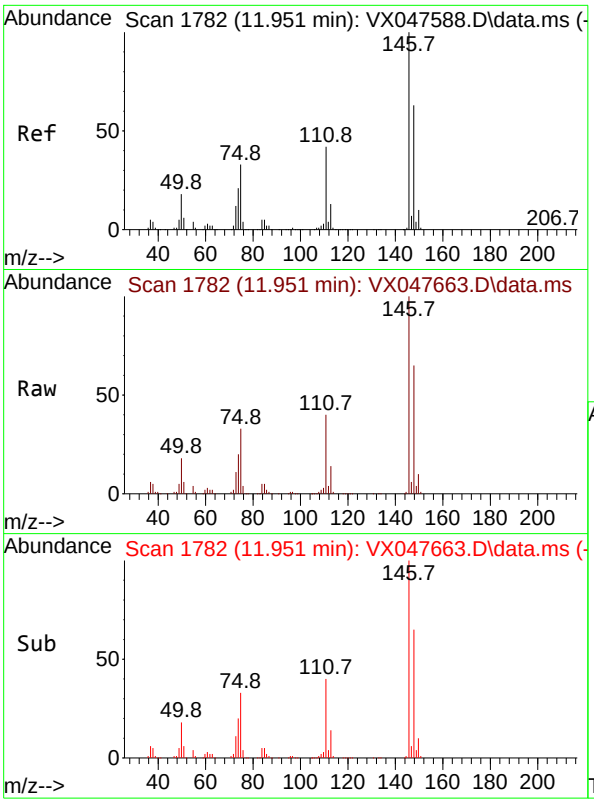


#86
p-Isopropyltoluene
Concen: 19.796 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:119 Resp: 185890

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.3	12.6	37.6



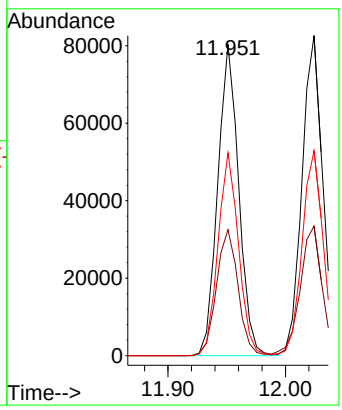


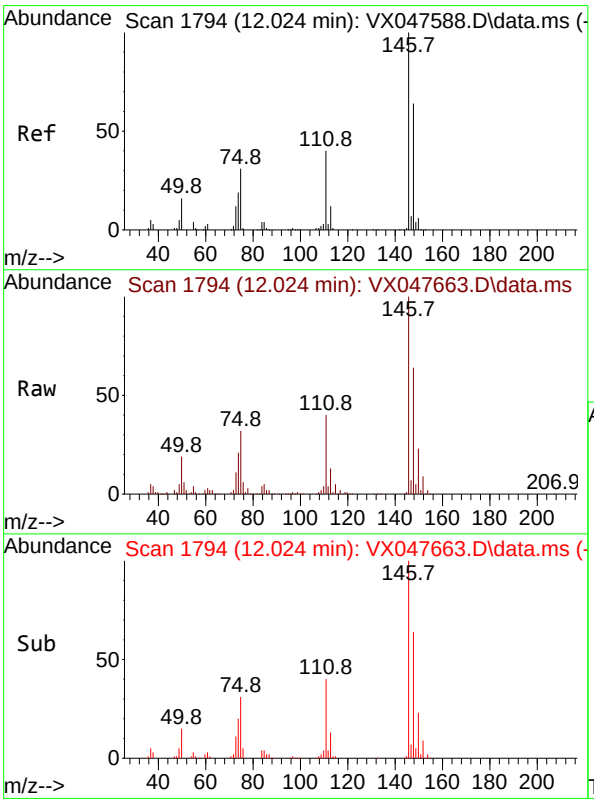
#87
1,3-Dichlorobenzene
Concen: 19.672 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:146 Resp: 99921

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.5	64.5
148	63.7	32.0	96.0

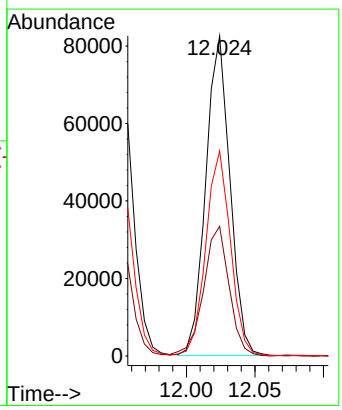


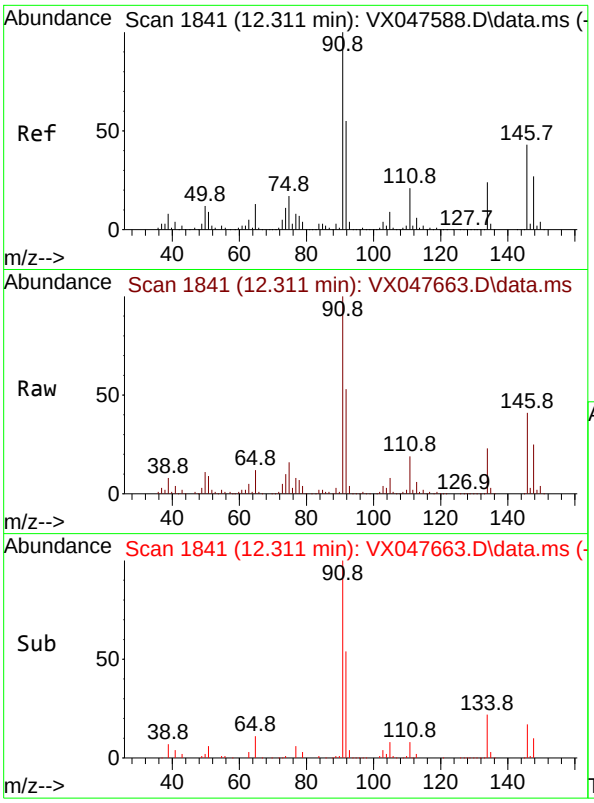


#88
1,4-Dichlorobenzene
Concen: 19.453 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:146 Resp: 101411

Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.8	62.4
148	65.3	31.7	95.1



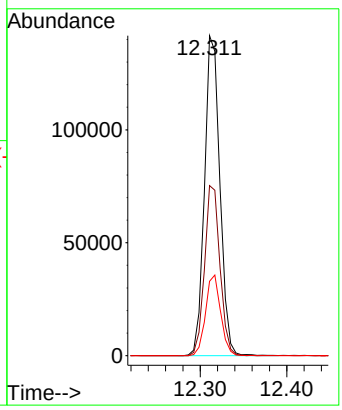


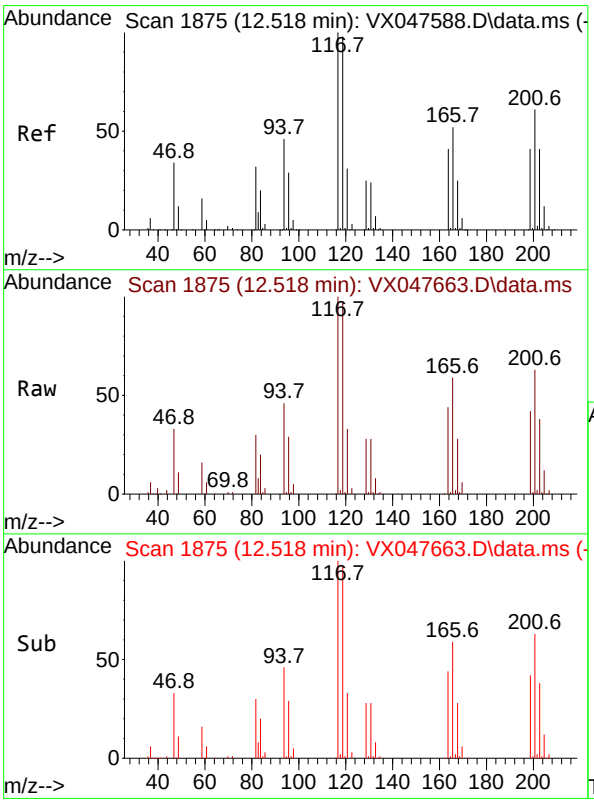
#89
n-Butylbenzene
Concen: 20.101 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion: 91 Resp: 174651

Ion	Ratio	Lower	Upper
91	100		
92	53.2	27.6	82.7
134	24.7	12.6	37.8

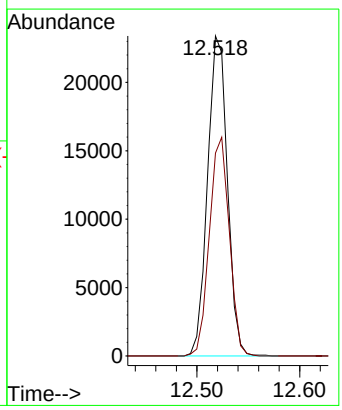


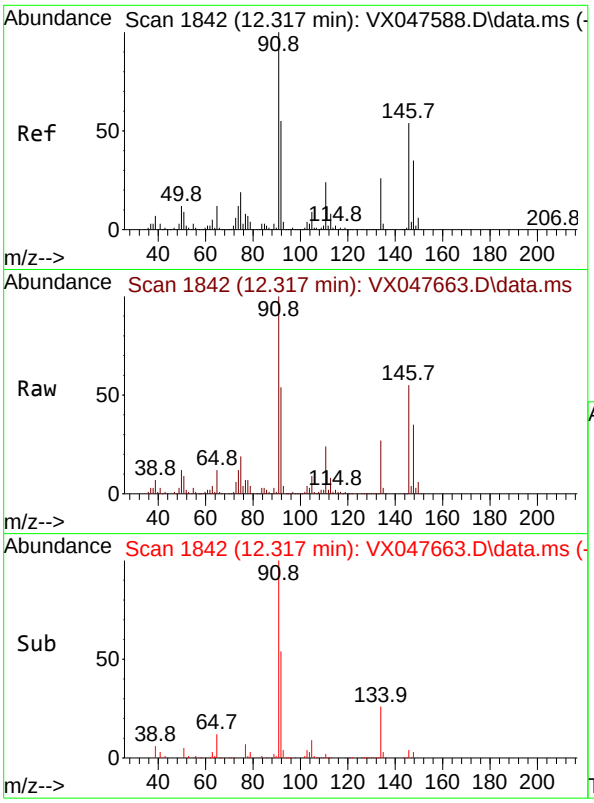


#90
Hexachloroethane
Concen: 19.010 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:117 Resp: 31341

Ion	Ratio	Lower	Upper
117	100		
201	68.6	34.2	102.5



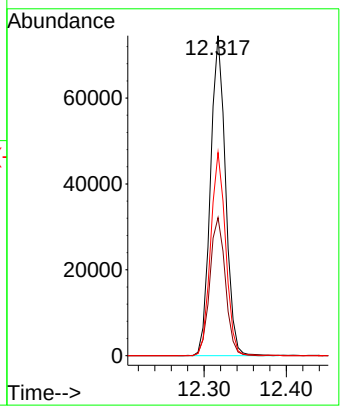


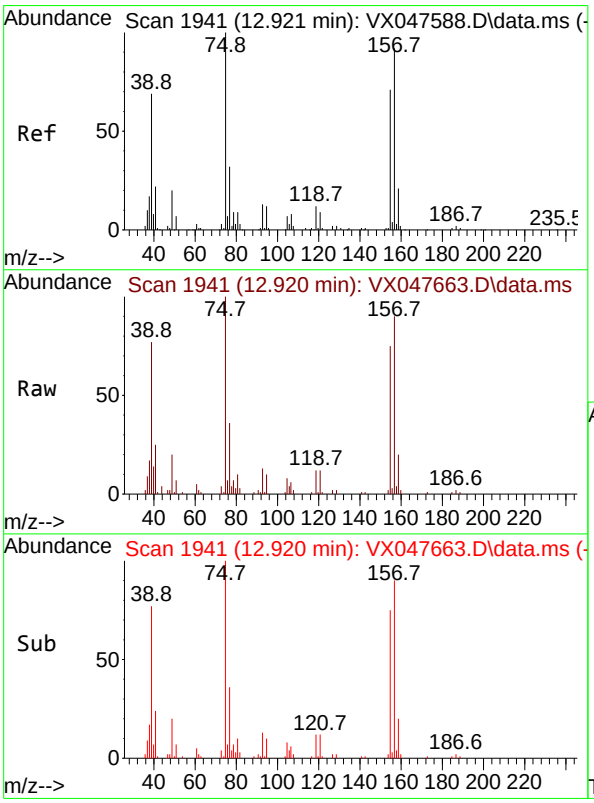
#91
1,2-Dichlorobenzene
Concen: 19.589 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:146 Resp: 94793

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.2	66.6
148	63.3	31.8	95.4

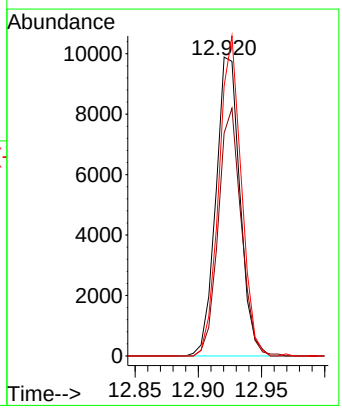


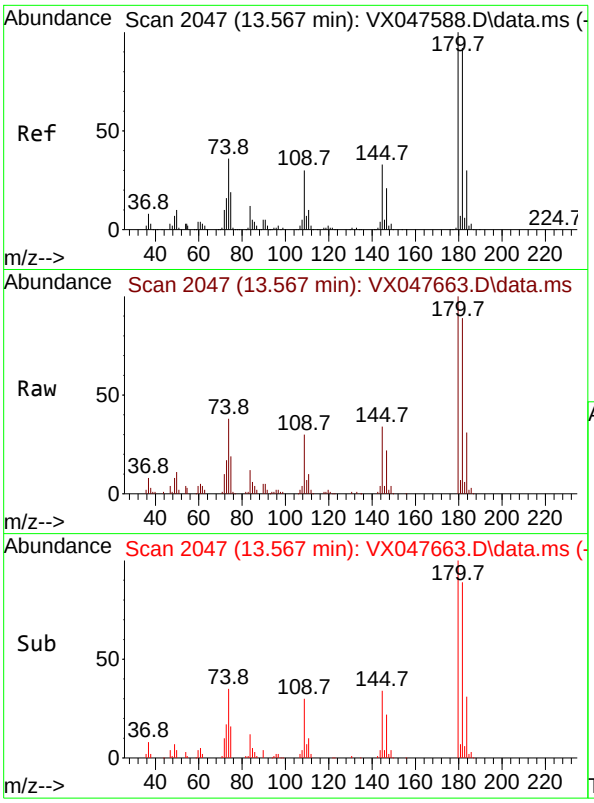


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.231 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion: 75 Resp: 13079

Ion	Ratio	Lower	Upper
75	100		
155	78.9	37.7	113.1
157	99.3	49.8	149.4



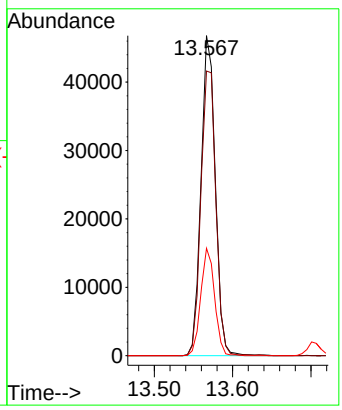


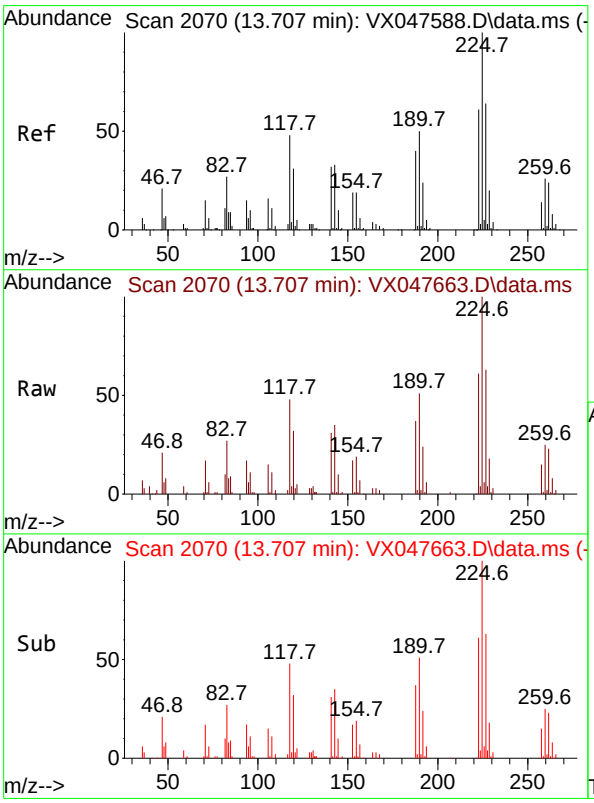
#93
1,2,4-Trichlorobenzene
Concen: 18.794 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:180 Resp: 59106

Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.6	139.8
145	32.6	16.4	49.1

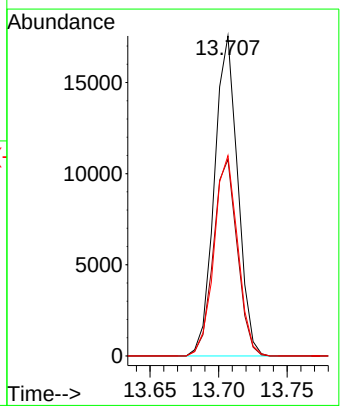


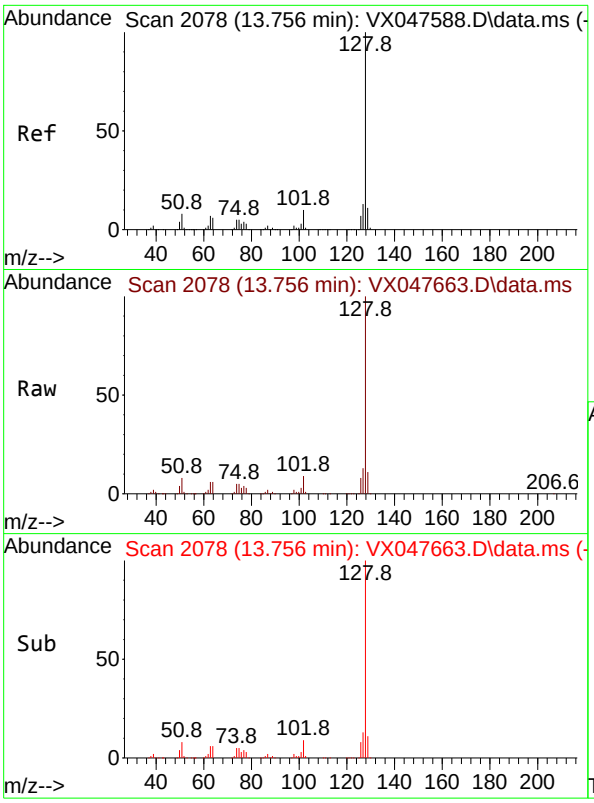


#94
Hexachlorobutadiene
Concen: 19.445 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:225 Resp: 20772

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.7	95.1
227	63.5	32.0	96.0



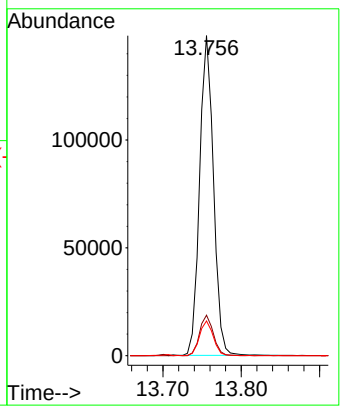


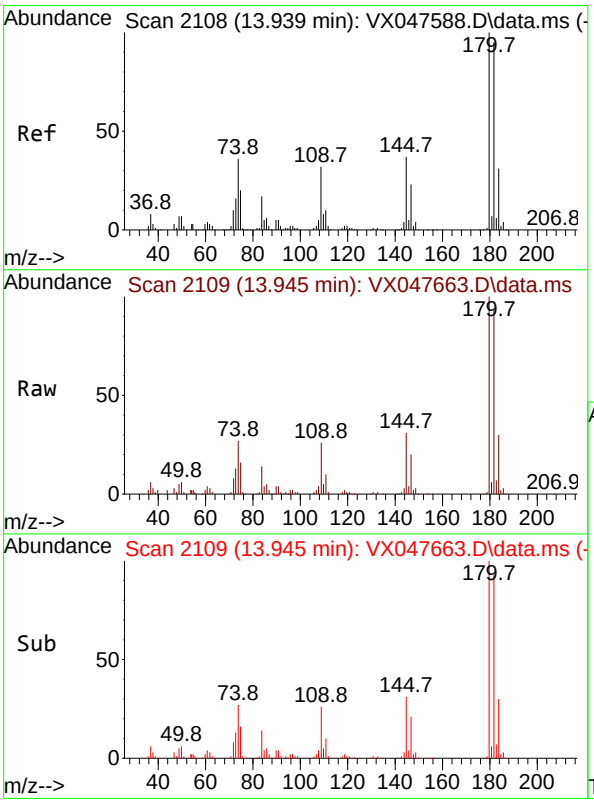
#95
Naphthalene
Concen: 19.000 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Instrument :
MSVOA_X
ClientSampleId :
VX0919WBS01

Tgt Ion:128 Resp: 181956

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.9	8.8	13.2

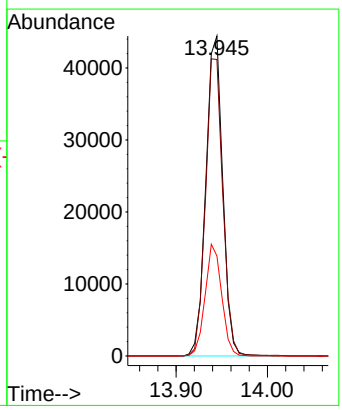




#96
1,2,3-Trichlorobenzene
Concen: 19.434 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047663.D
Acq: 19 Sep 2025 10:38

Tgt Ion:180 Resp: 56854

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.6	142.8
145	34.3	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047680.D
Acq On : 19 Sep 2025 16:38
Operator : JC/MD
Sample : Q3097-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Quant Time: Sep 20 00:34:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

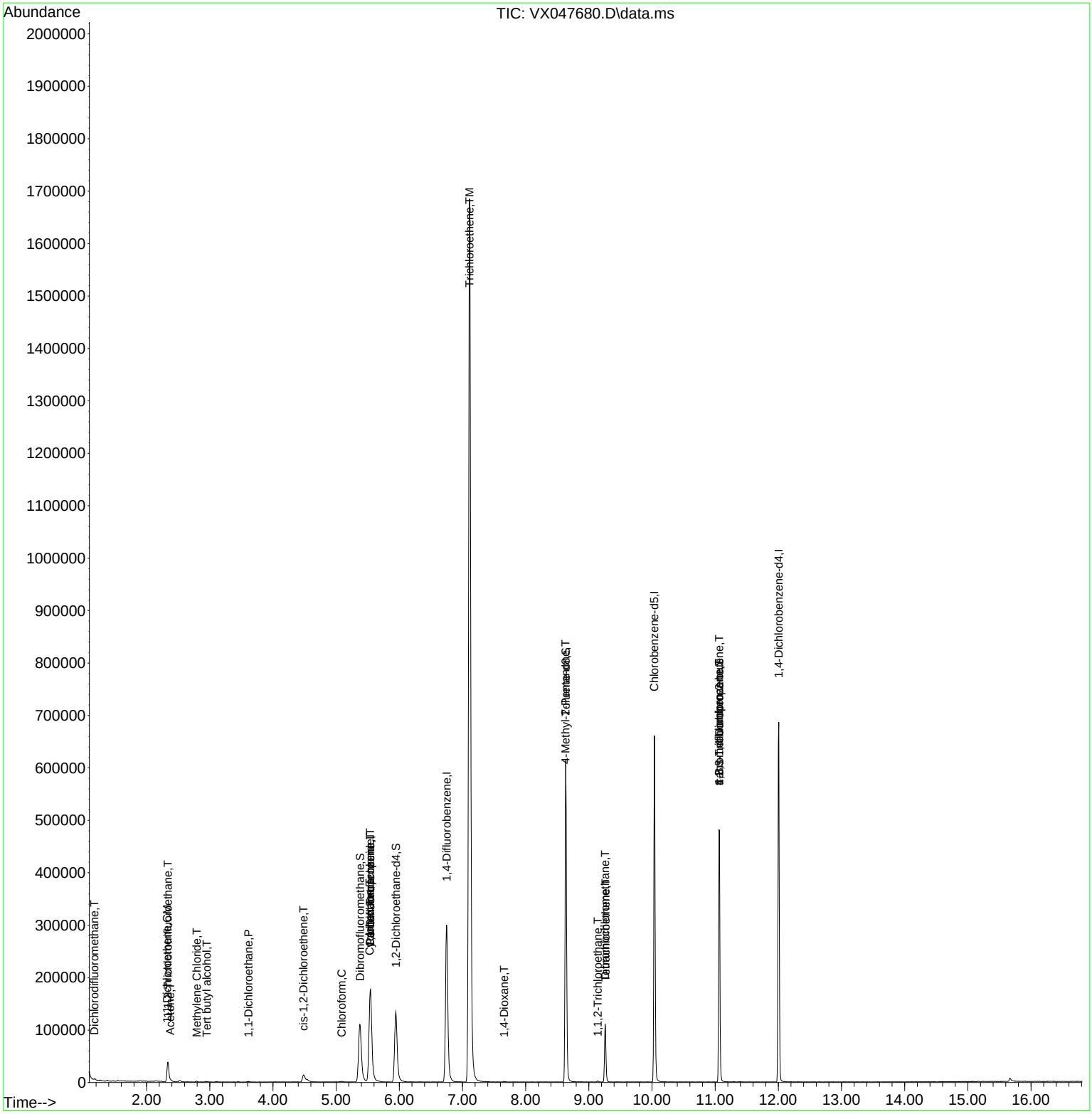
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	176923	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	328094	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	294939	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	144012	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	143336	50.898	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.800%			
35) Dibromofluoromethane	5.379	113	108463	49.293	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.580%			
50) Toluene-d8	8.635	98	367967	48.329	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.660%			
62) 4-Bromofluorobenzene	11.061	95	142876	49.446	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	609	0.332	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.337	101	14050	6.866	ug/l	97
11) Tert butyl alcohol	2.953	59	127	0.405	ug/l #	72
12) 1,1-Dichloroethene	2.325	96	4491	2.137	ug/l	95
16) Acetone	2.374	43	1953	1.595	ug/l	91
20) Methylene Chloride	2.794	84	682	0.263	ug/l #	85
24) 1,1-Dichloroethane	3.611	63	1678	0.376	ug/l #	81
27) cis-1,2-Dichloroethene	4.483	96	9496	3.426	ug/l	90
30) Chloroform	5.087	83	910	0.202	ug/l	98
31) Cyclohexane	5.532	56	3898	1.047	ug/l #	8
36) 1,1-Dichloropropene	5.538	75	15509	4.824	ug/l #	51
38) Carbon Tetrachloride	5.538	117	19207	5.498	ug/l #	17
44) Trichloroethene	7.111	130	702899	297.717	ug/l	97
49) 1,4-Dioxane	7.659	88	709	24.945	ug/l	98
51) 4-Methyl-2-Pentanone	8.629	43	1636	0.523	ug/l #	1
55) 1,1,2-Trichloroethane	9.141	97	587	0.253	ug/l #	88
60) Dibromochloromethane	9.257	129	21773	8.145	ug/l #	11
64) Tetrachloroethene	9.263	164	21499	11.182	ug/l	96
76) 1,2,3-Trichloropropane	11.061	75	73712	25.280	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	73712	64.468	ug/l #	8

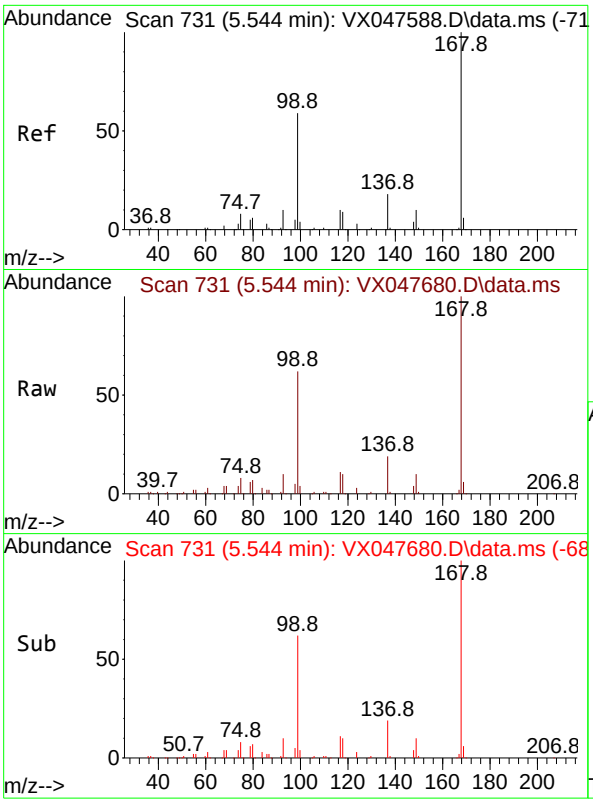
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047680.D
Acq On : 19 Sep 2025 16:38
Operator : JC/MD
Sample : Q3097-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Quant Time: Sep 20 00:34:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



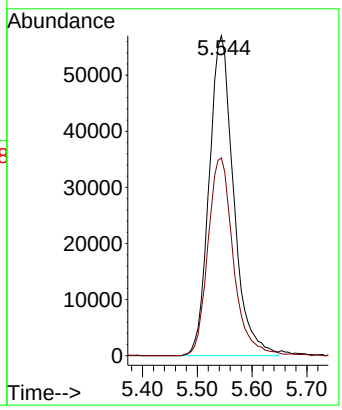


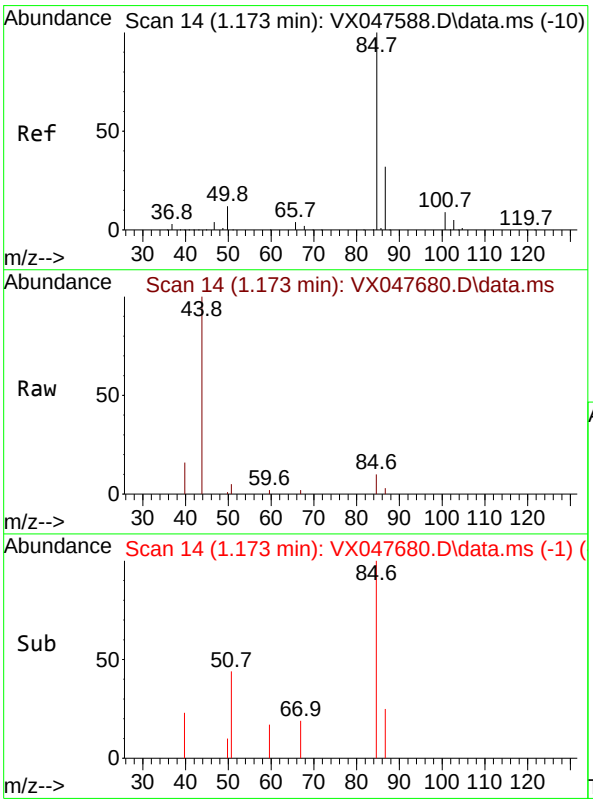
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion:168 Resp: 176923

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.8	73.2

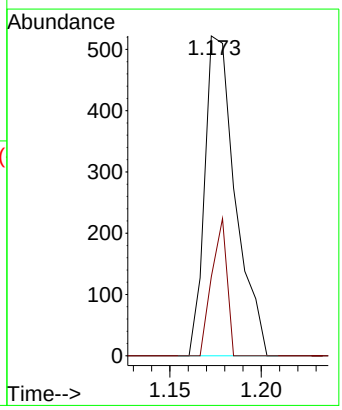


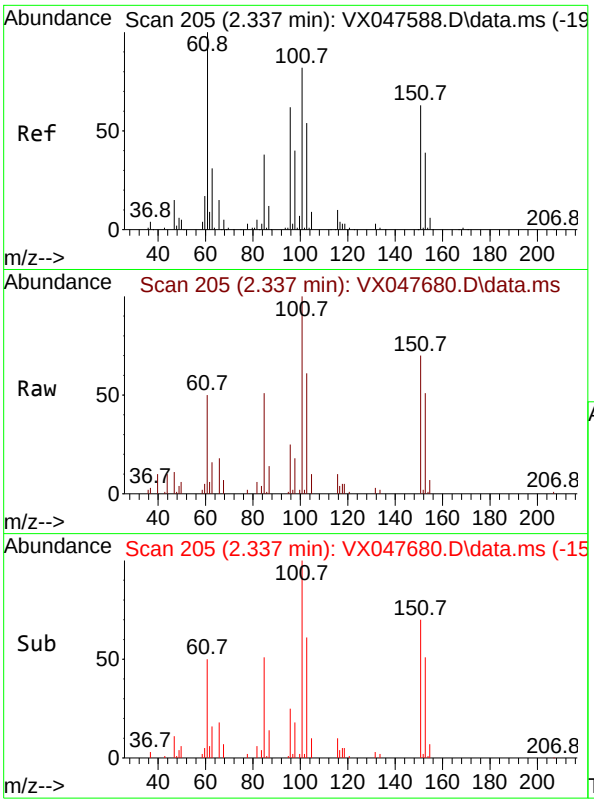


#2
Dichlorodifluoromethane
Concen: 0.332 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 85 Resp: 609

Ion	Ratio	Lower	Upper
85	100		
87	24.7	15.8	47.3



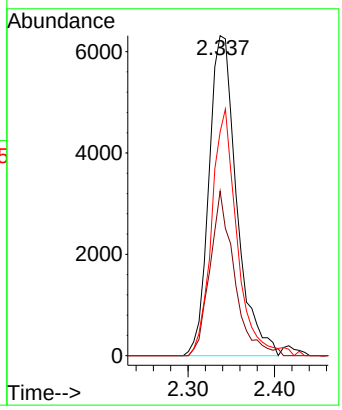


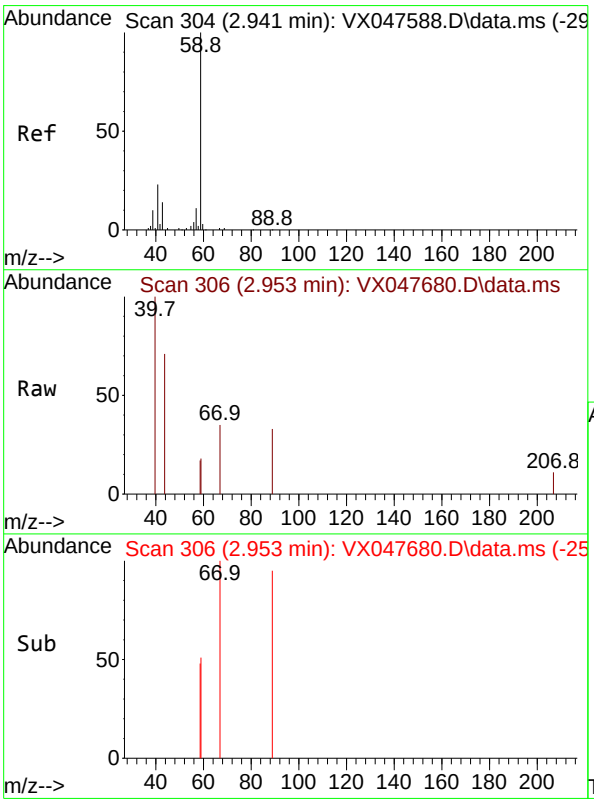
#9
1,1,2-Trichlorotrifluoroethane
Concen: 6.866 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion:101 Resp: 14050

Ion	Ratio	Lower	Upper
101	100		
85	45.4	35.5	53.3
151	70.8	59.4	89.0

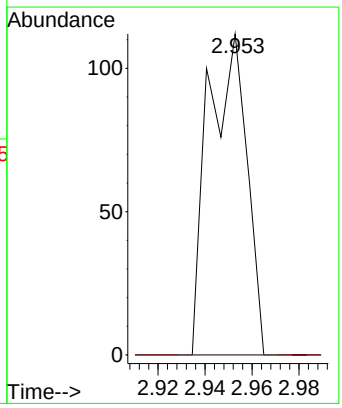


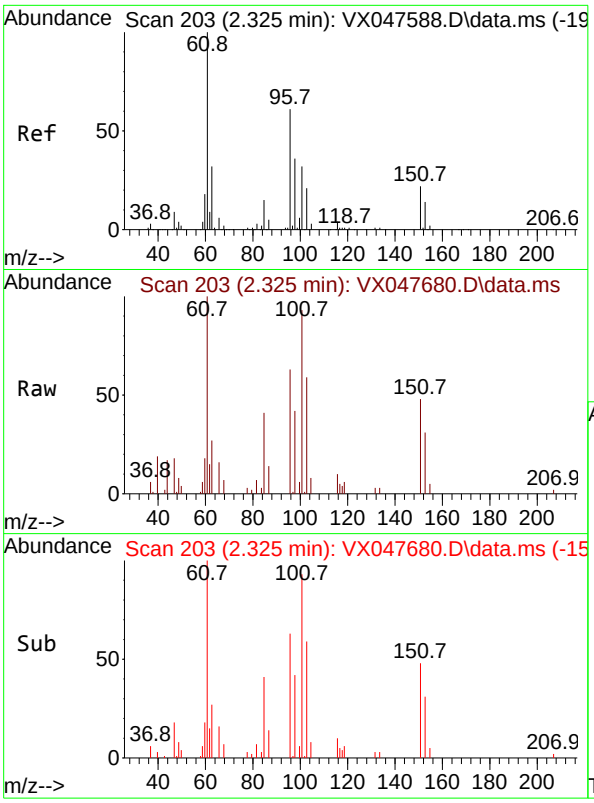


#11
Tert butyl alcohol
Concen: 0.405 ug/l
RT: 2.953 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 59 Resp: 127

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#



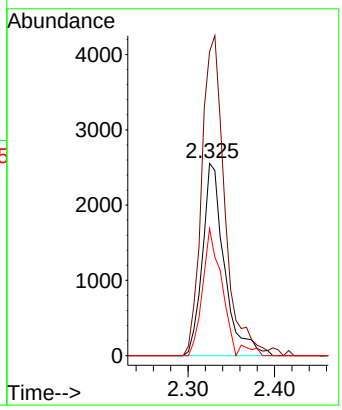


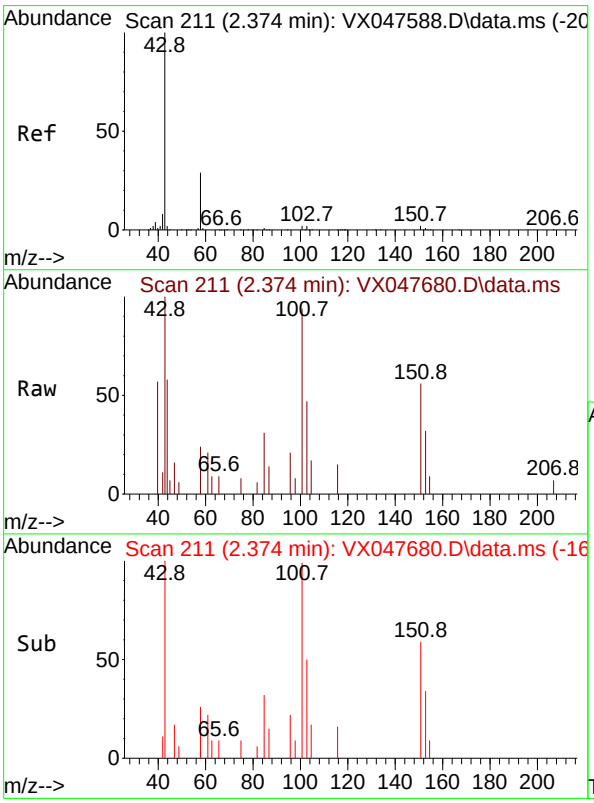
#12
1,1-Dichloroethene
Concen: 2.137 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion: 96 Resp: 4491

Ion	Ratio	Lower	Upper
96	100		
61	158.0	131.0	196.6
98	66.0	47.7	71.5

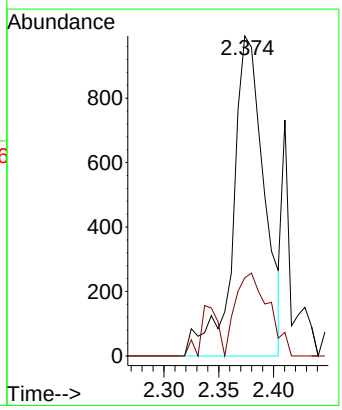


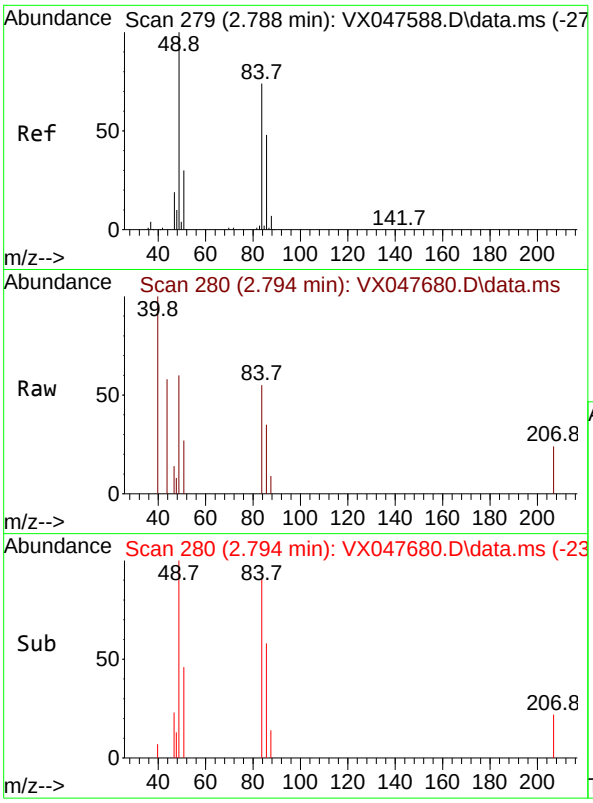


#16
Acetone
Concen: 1.595 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 43 Resp: 1953

Ion	Ratio	Lower	Upper
43	100		
58	24.4	23.4	35.0



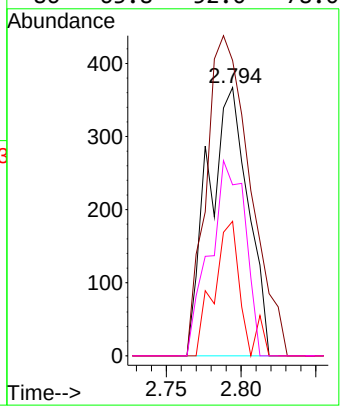


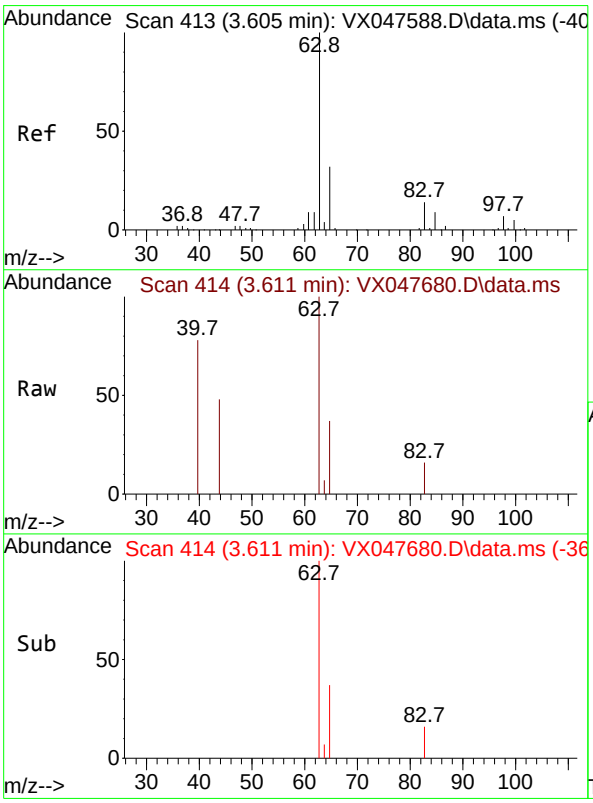
#20
Methylene Chloride
Concen: 0.263 ug/l
RT: 2.794 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion: 84 Resp: 682

Ion	Ratio	Lower	Upper
84	100		
49	110.1	108.6	162.8
51	50.1	32.6	48.8#
86	63.8	52.0	78.0

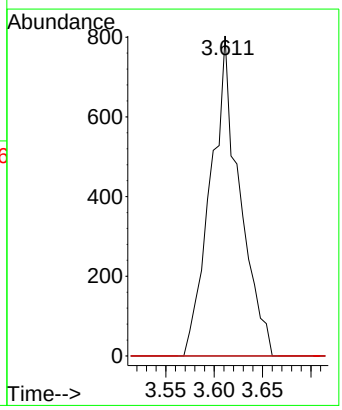


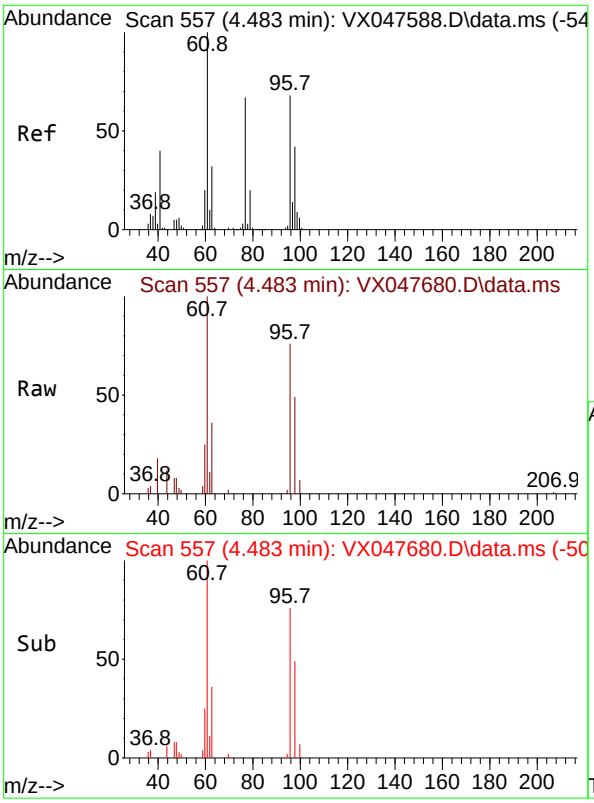


#24
1,1-Dichloroethane
Concen: 0.376 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 63 Resp: 1678

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.2#
100	0.0	2.3	6.9#



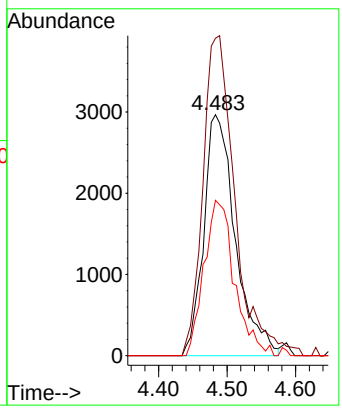


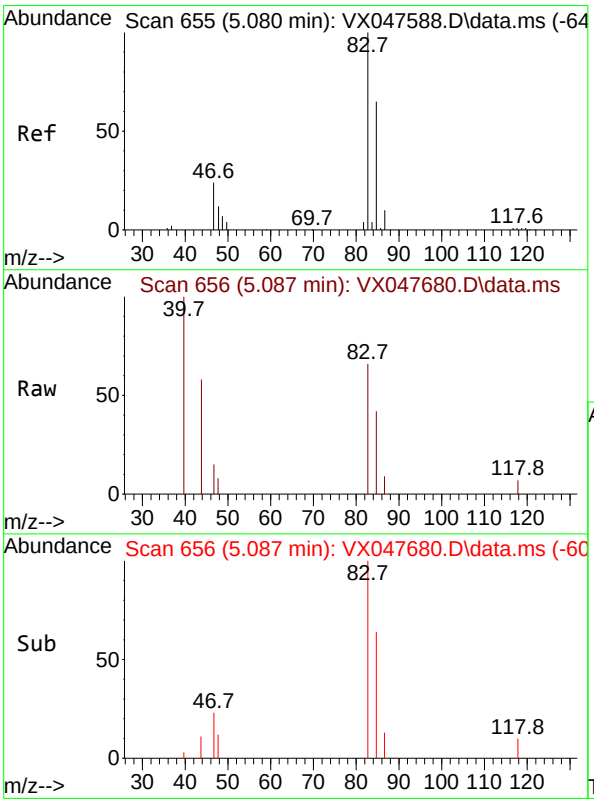
#27
cis-1,2-Dichloroethene
Concen: 3.426 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion: 96 Resp: 9496

Ion	Ratio	Lower	Upper
96	100		
61	135.0	0.0	303.2
98	62.1	0.0	127.8

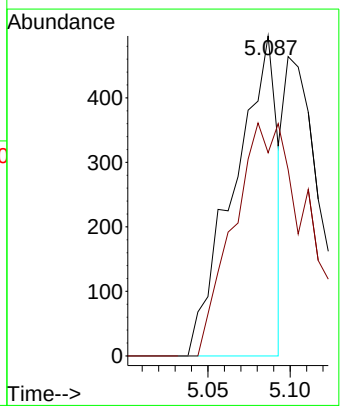


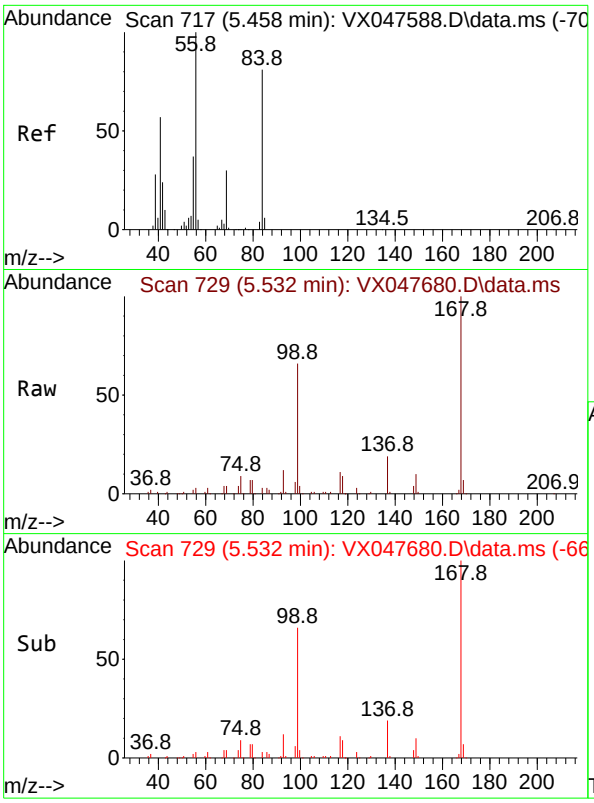


#30
Chloroform
Concen: 0.202 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 83 Resp: 910

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6



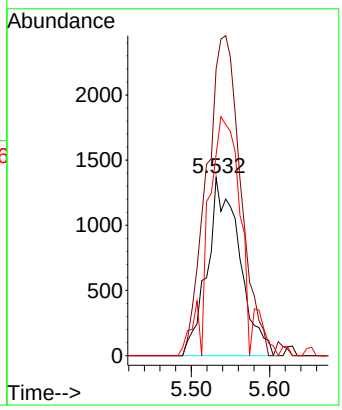


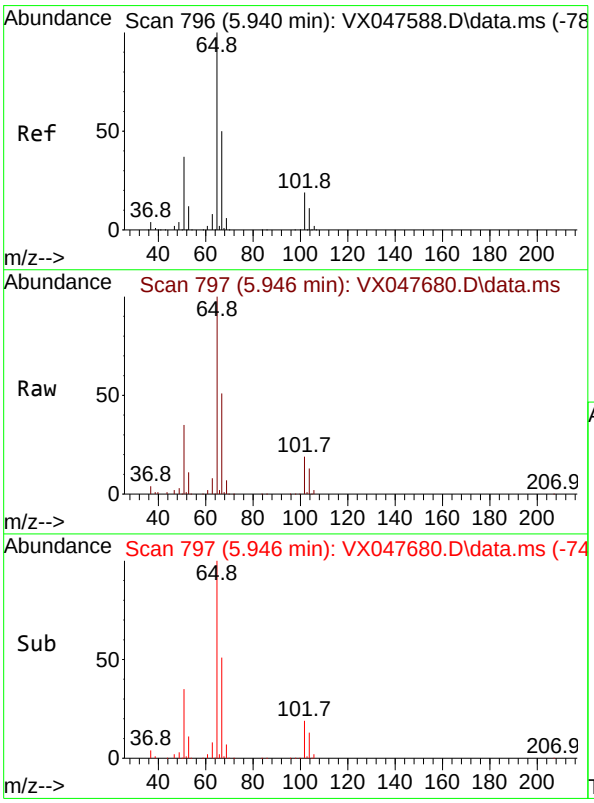
#31
Cyclohexane
Concen: 1.047 ug/l
RT: 5.532 min Scan# 7
Delta R.T. 0.073 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion: 56 Resp: 3898

Ion	Ratio	Lower	Upper
56	100		
69	161.1	23.8	35.8#
84	112.9	64.6	97.0#

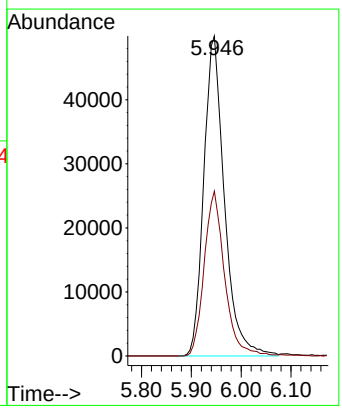


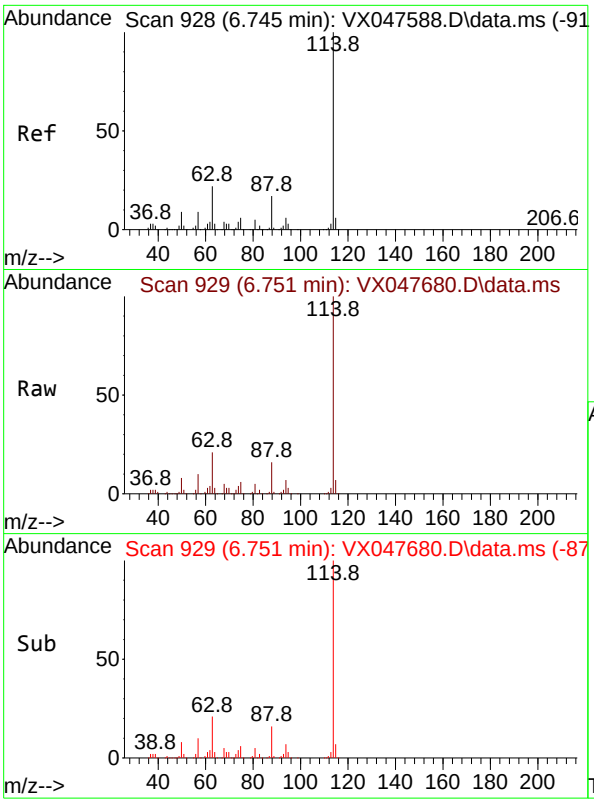


#33
1,2-Dichloroethane-d4
Concen: 50.898 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 65 Resp: 143336

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	103.0



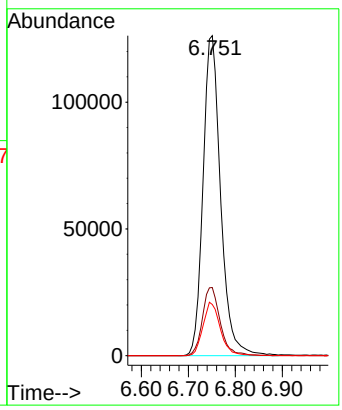


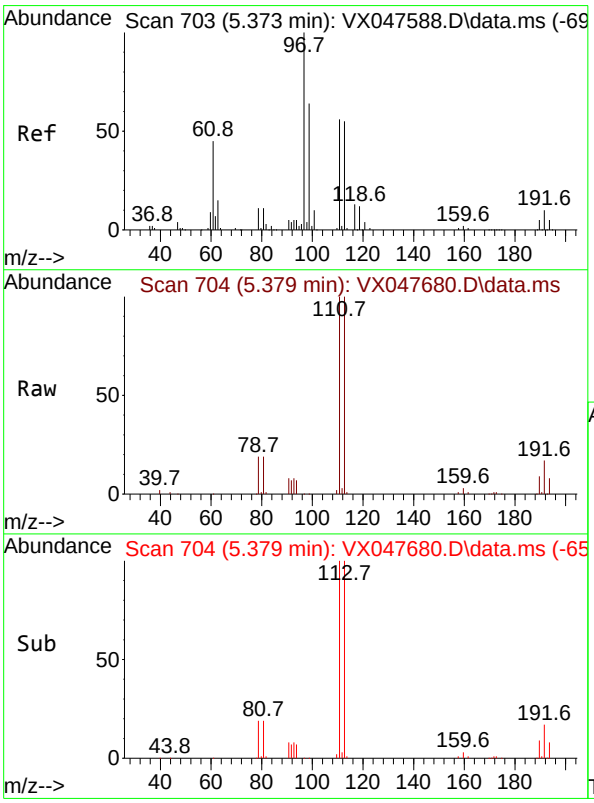
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion:114 Resp: 328094

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	44.0
88	16.0	0.0	34.2

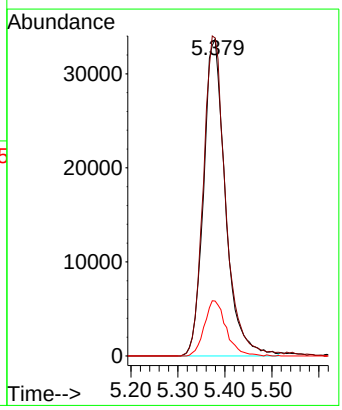


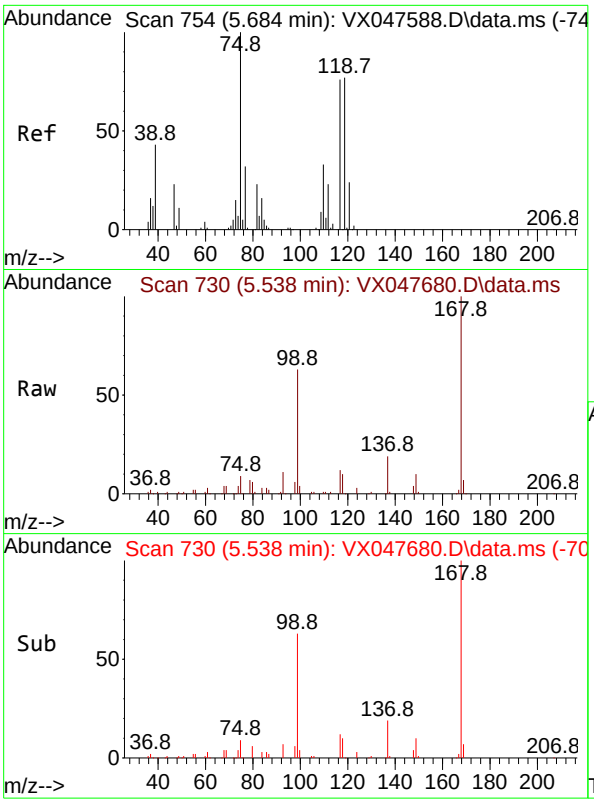


#35
Dibromofluoromethane
Concen: 49.293 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:113 Resp: 108463

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.9	121.3
192	17.4	14.2	21.4



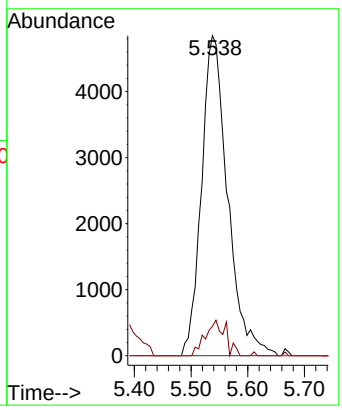


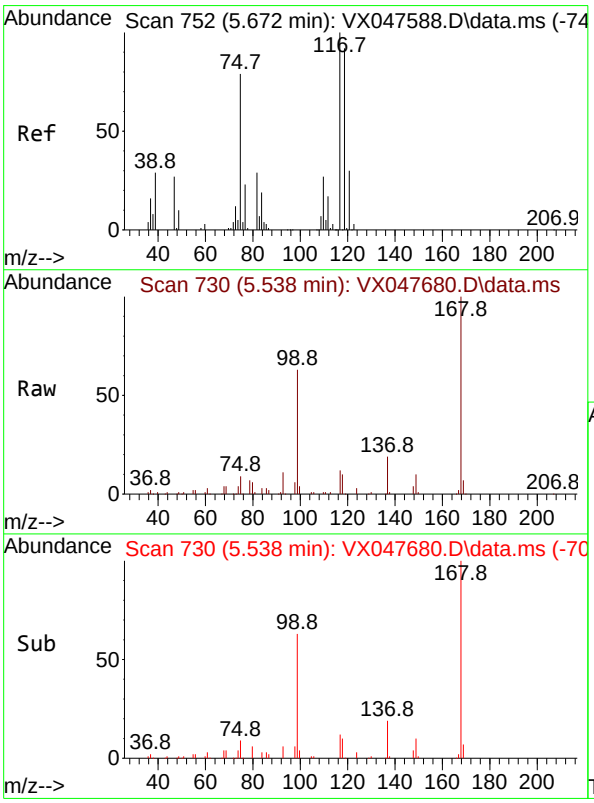
#36
1,1-Dichloropropene
Concen: 4.824 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.146 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion: 75 Resp: 15509

Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.7	50.1#
77	0.0	24.3	36.5#

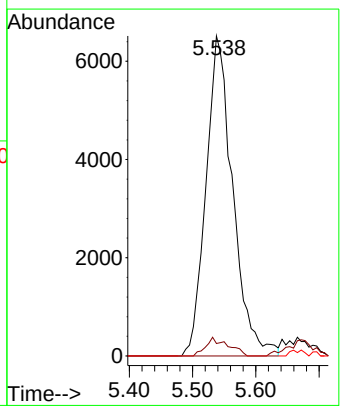


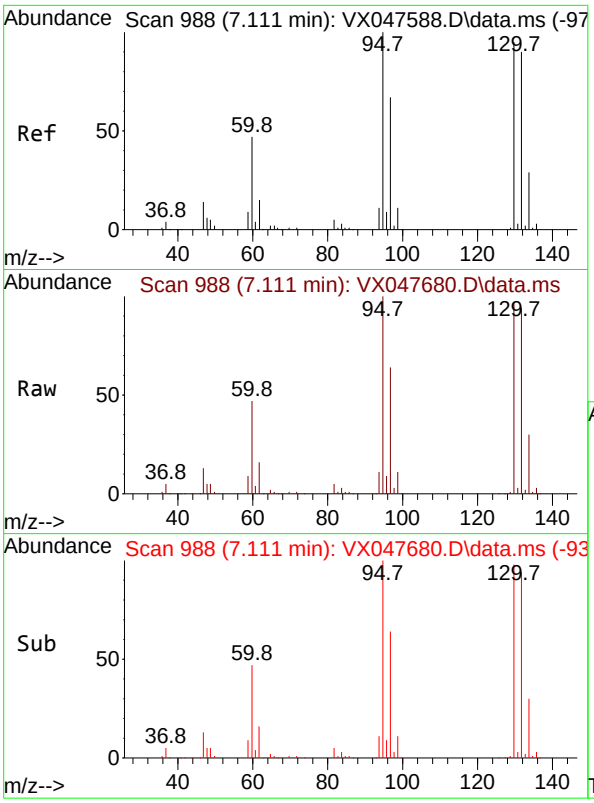


#38
Carbon Tetrachloride
Concen: 5.498 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.134 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:117 Resp: 19207

Ion	Ratio	Lower	Upper
117	100		
119	3.9	73.4	110.2#
121	0.0	23.8	35.6#



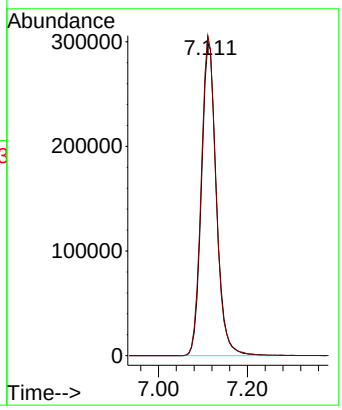


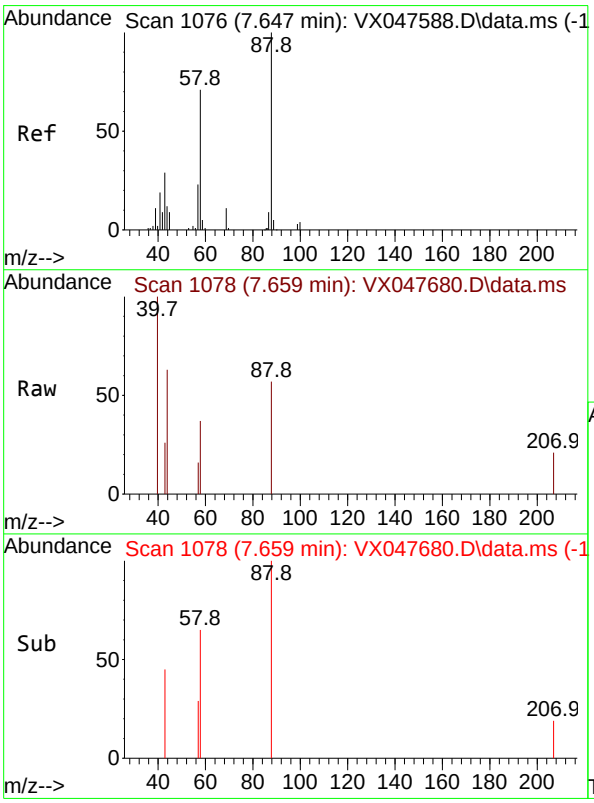
#44
Trichloroethene
Concen: 297.717 ug/l
RT: 7.111 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion:130 Resp: 702899

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	210.8

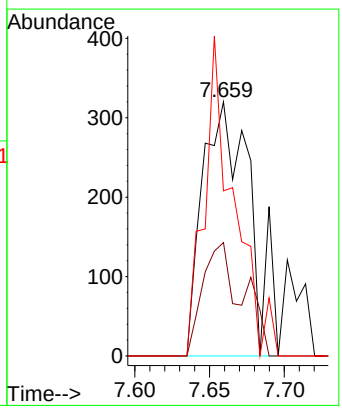


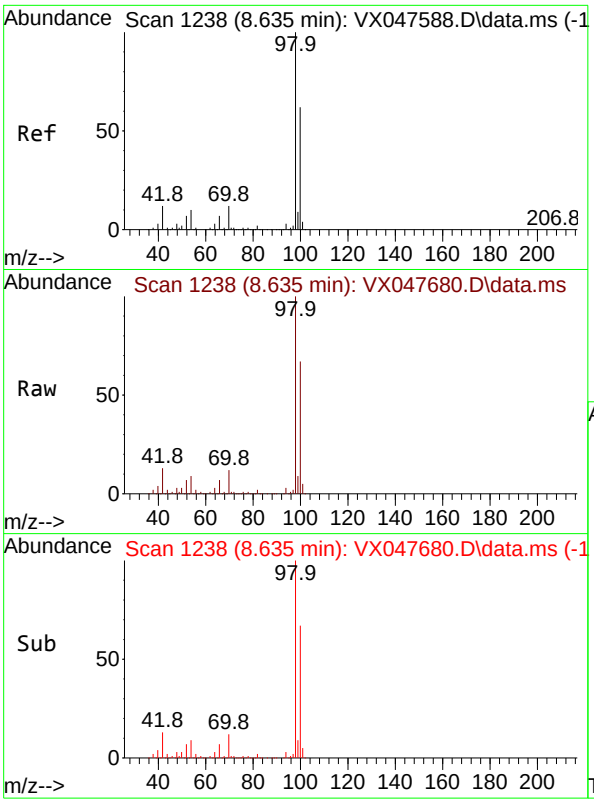


#49
1,4-Dioxane
Concen: 24.945 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 88 Resp: 709

Ion	Ratio	Lower	Upper
88	100		
43	37.1	30.2	45.2
58	77.2	59.5	89.3



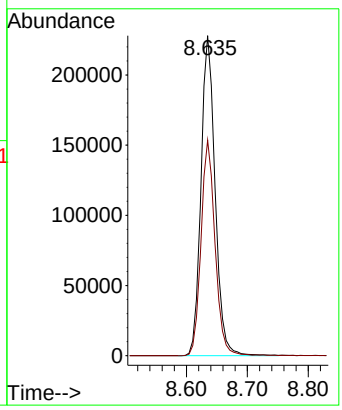


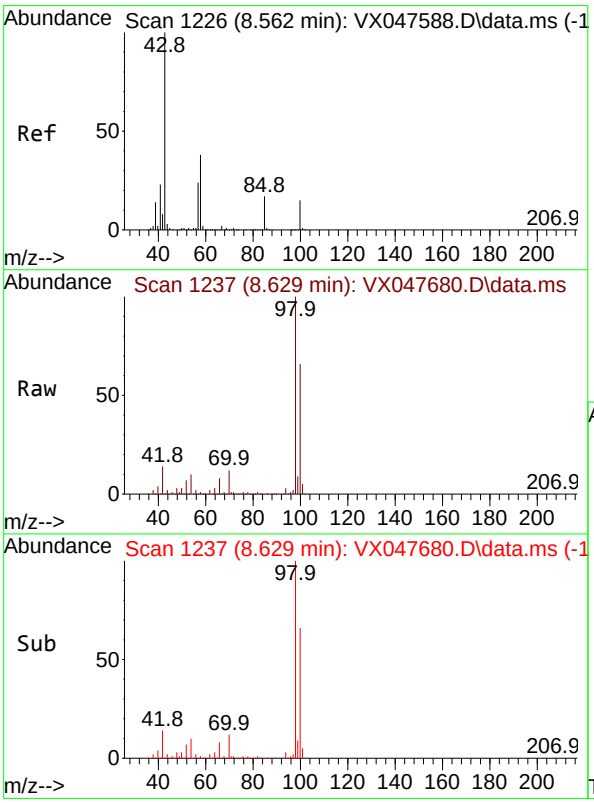
#50
Toluene-d8
Concen: 48.329 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion: 98 Resp: 367967

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4

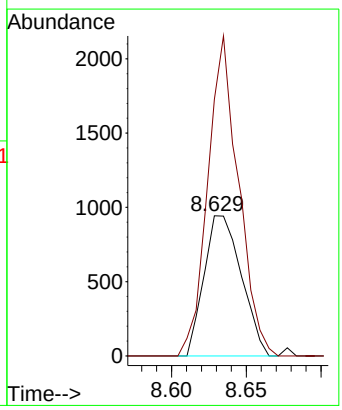


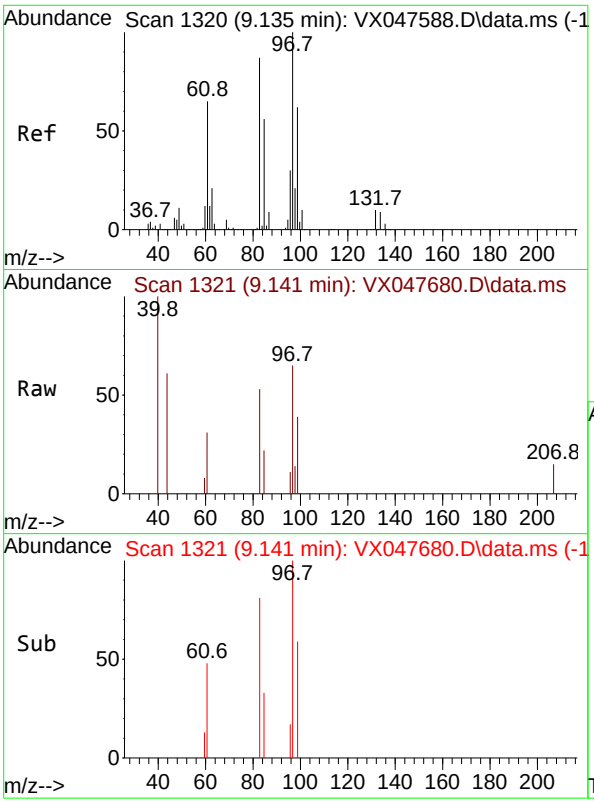


#51
4-Methyl-2-Pentanone
Concen: 0.523 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. 0.067 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 43 Resp: 1636

Ion	Ratio	Lower	Upper
43	100		
58	188.4	30.3	45.5#



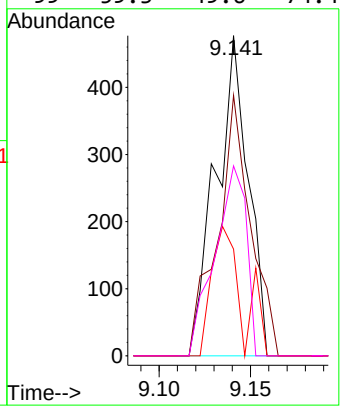


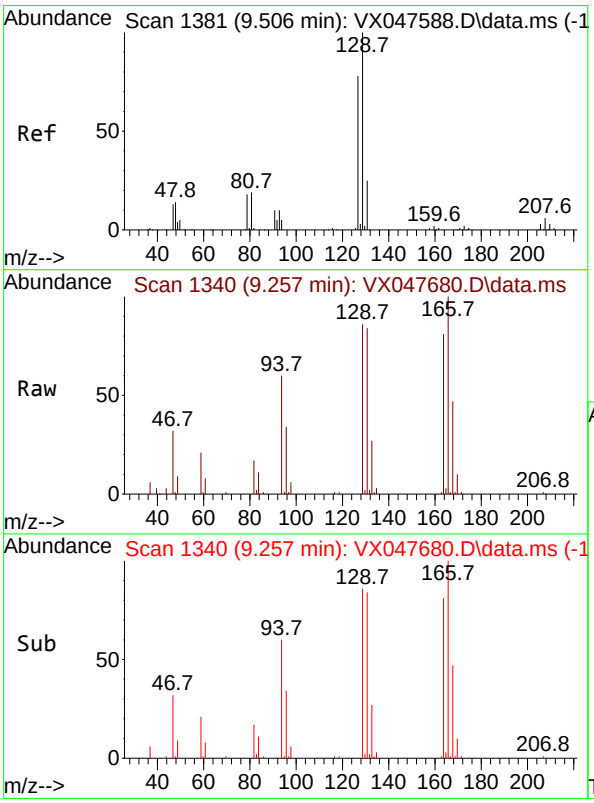
#55
1,1,2-Trichloroethane
Concen: 0.253 ug/l
RT: 9.141 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion: 97 Resp: 587

Ion	Ratio	Lower	Upper
97	100		
83	81.3	69.6	104.4
85	33.3	45.0	67.6#
99	59.3	49.6	74.4

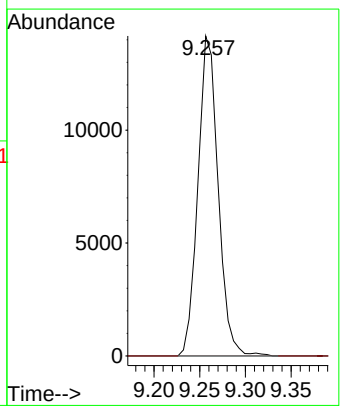


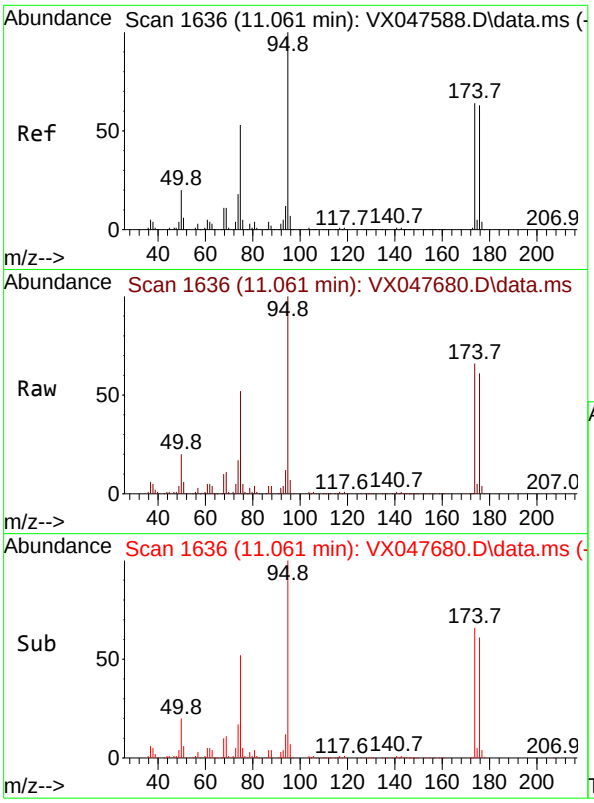


#60
Dibromochloromethane
Concen: 8.145 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. -0.250 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:129 Resp: 21773

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.4	115.2#



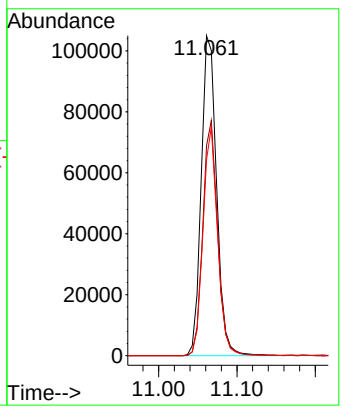


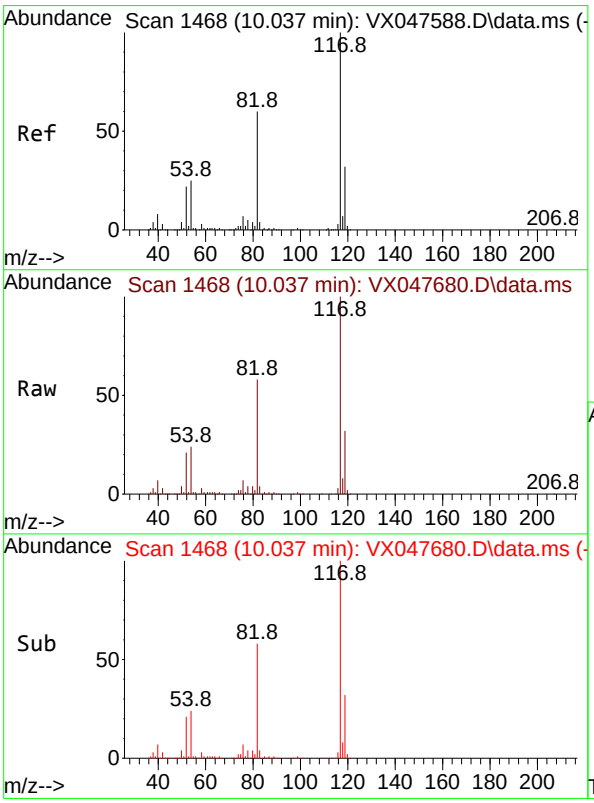
#62
4-Bromofluorobenzene
Concen: 49.446 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion: 95 Resp: 142876

Ion	Ratio	Lower	Upper
95	100		
174	71.0	0.0	141.6
176	67.7	0.0	138.4

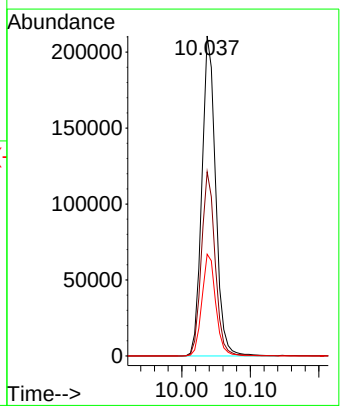


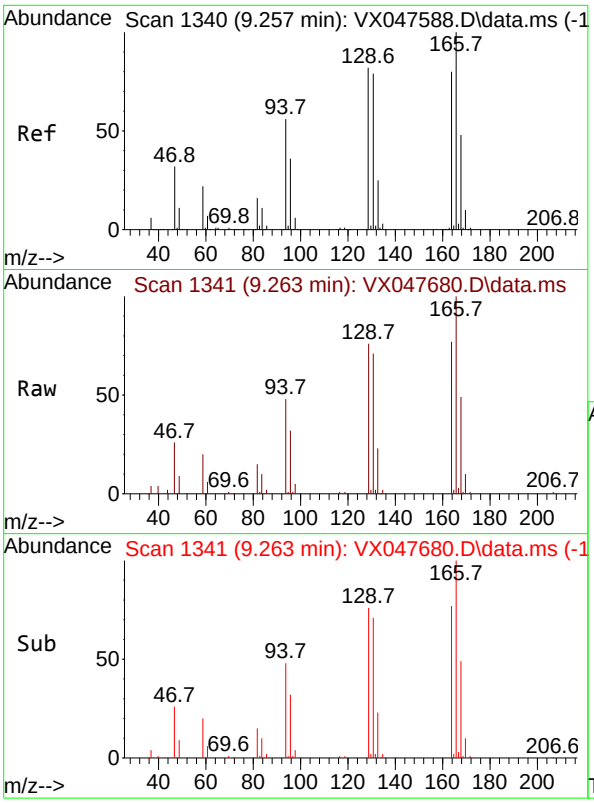


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:117 Resp: 294939

Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.8	71.6
119	31.8	25.2	37.8



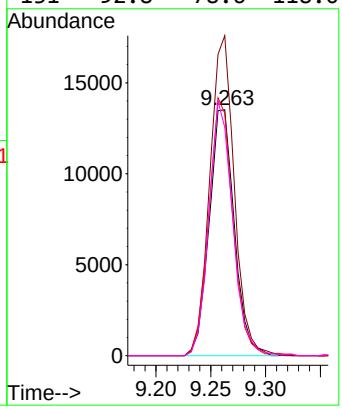


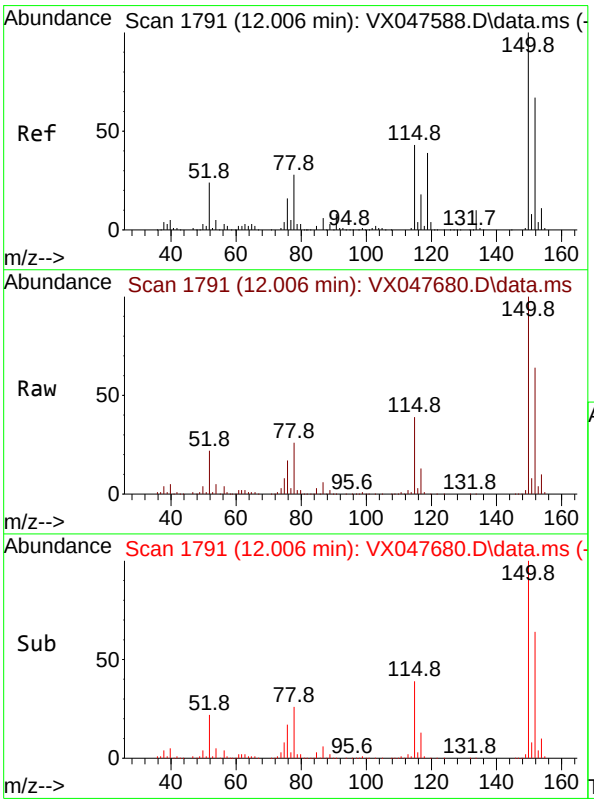
#64
Tetrachloroethene
Concen: 11.182 ug/l
RT: 9.263 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion:164 Resp: 21499

Ion	Ratio	Lower	Upper
164	100		
166	130.1	100.2	150.2
129	98.6	81.8	122.6
131	92.8	78.6	118.0

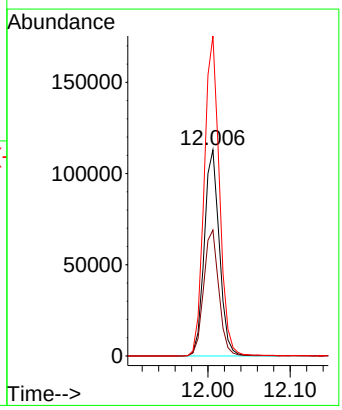


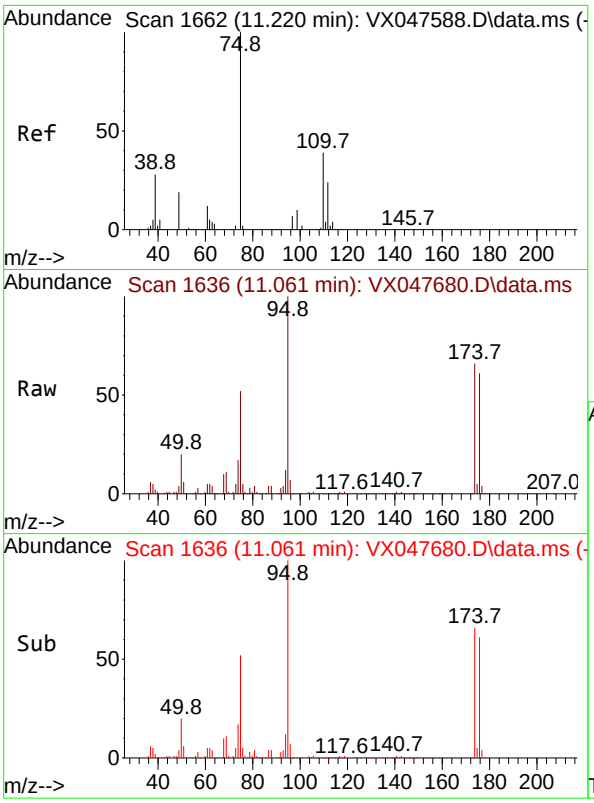


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion:152 Resp: 144012

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.9	134.5
150	156.7	0.0	352.0



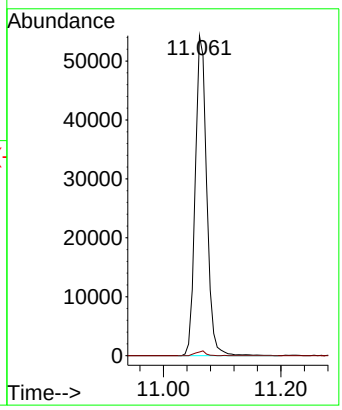


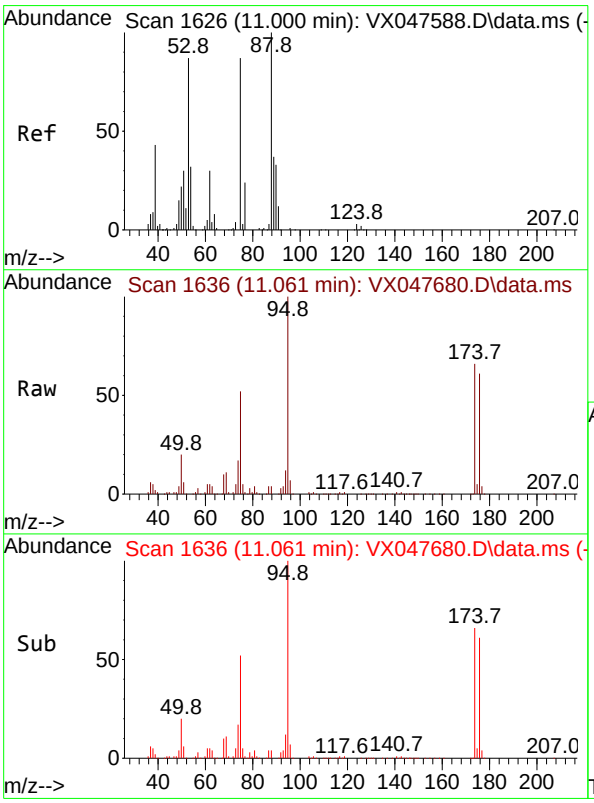
#76
1,2,3-Trichloropropane
Concen: 25.280 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.158 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Instrument :
MSVOA_X
ClientSampleId :
RE125D2-20250911

Tgt Ion: 75 Resp: 73712

Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.8	56.4#

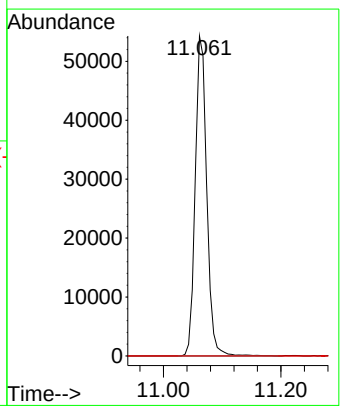




#81
trans-1,4-Dichloro-2-butene
Concen: 64.468 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047680.D
Acq: 19 Sep 2025 16:38

Tgt Ion: 75 Resp: 73712

Ion	Ratio	Lower	Upper
75	100		
53	0.0	83.4	125.2#
89	0.0	36.3	54.5#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	154405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	278359	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	248998	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	120684	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	130953	53.282	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.560%			
35) Dibromofluoromethane	5.373	113	100288	53.721	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.440%			
50) Toluene-d8	8.635	98	344346	53.308	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.620%			
62) 4-Bromofluorobenzene	11.061	95	129494	52.822	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	101670	63.588	ug/l	98
3) Chloromethane	1.300	50	123827	58.927	ug/l	99
4) Vinyl Chloride	1.380	62	122810	59.703	ug/l	97
5) Bromomethane	1.617	94	77609	59.499	ug/l	100
6) Chloroethane	1.697	64	77528	56.391	ug/l	97
7) Trichlorofluoromethane	1.898	101	168856	55.285	ug/l	99
8) Diethyl Ether	2.136	74	68004	54.429	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.337	101	99678	55.814	ug/l	97
10) Methyl Iodide	2.459	142	146871	52.731	ug/l	100
11) Tert butyl alcohol	2.940	59	58211	212.661	ug/l	100
12) 1,1-Dichloroethene	2.325	96	100925	55.015	ug/l	95
13) Acrolein	2.239	56	68460	271.404	ug/l	98
14) Allyl chloride	2.666	41	195491	51.642	ug/l	98
15) Acrylonitrile	3.056	53	276208	272.421	ug/l	100
16) Acetone	2.373	43	211924	198.313	ug/l	96
17) Carbon Disulfide	2.520	76	289670	57.679	ug/l	100
18) Methyl Acetate	2.697	43	127073	53.432	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	351150	52.436	ug/l	99
20) Methylene Chloride	2.788	84	122715	54.250	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	109388	55.385	ug/l	97
22) Diisopropyl ether	3.751	45	400135	54.541	ug/l #	83
23) Vinyl Acetate	3.715	43	1611770	274.498	ug/l	100
24) 1,1-Dichloroethane	3.605	63	212751	54.560	ug/l	99
25) 2-Butanone	4.538	43	329510	247.197	ug/l	99
26) 2,2-Dichloropropane	4.471	77	145629	44.928	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	129834	53.677	ug/l	98
28) Bromochloromethane	4.885	49	91361	53.668	ug/l	99
29) Tetrahydrofuran	4.989	42	208846	260.441	ug/l	100
30) Chloroform	5.080	83	214531	54.443	ug/l	96
31) Cyclohexane	5.464	56	173386	53.387	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	178728	53.474	ug/l	100
36) 1,1-Dichloropropene	5.684	75	140108	51.362	ug/l	99
37) Ethyl Acetate	4.696	43	147497	50.499	ug/l	100
38) Carbon Tetrachloride	5.666	117	150656	50.831	ug/l	95
39) Methylcyclohexane	7.366	83	162143	52.363	ug/l	99
40) Benzene	6.025	78	445760	53.802	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.903	41	79917	53.000	ug/l		99
42) 1,2-Dichloroethane	6.074	62	163773	51.951	ug/l		98
43) Isopropyl Acetate	6.324	43	246265	51.410	ug/l		99
44) Trichloroethene	7.117	130	112580	56.204	ug/l		93
45) 1,2-Dichloropropane	7.415	63	114044	53.755	ug/l		99
46) Dibromomethane	7.568	93	81845	53.014	ug/l		97
47) Bromodichloromethane	7.805	83	169676	53.260	ug/l		97
48) Methyl methacrylate	7.677	41	124085	52.004	ug/l		98
49) 1,4-Dioxane	7.647	88	26594	1102.850	ug/l		97
51) 4-Methyl-2-Pentanone	8.555	43	702538	264.517	ug/l		99
52) Toluene	8.702	92	272421	53.368	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	167442	51.527	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	179970	51.815	ug/l		99
55) 1,1,2-Trichloroethane	9.134	97	104952	53.322	ug/l		99
56) Ethyl methacrylate	9.104	69	165642	53.586	ug/l		98
57) 1,3-Dichloropropane	9.293	76	183018	54.129	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	384468	259.650	ug/l		100
59) 2-Hexanone	9.415	43	481662	252.510	ug/l		99
60) Dibromochloromethane	9.506	129	121253	53.465	ug/l		99
61) 1,2-Dibromoethane	9.592	107	110255	54.996	ug/l		99
64) Tetrachloroethene	9.262	164	84740	52.205	ug/l		95
65) Chlorobenzene	10.061	112	298639	52.793	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.146	131	101896	52.201	ug/l		97
67) Ethyl Benzene	10.177	91	517118	52.982	ug/l		99
68) m/p-Xylenes	10.287	106	381354	104.973	ug/l		99
69) o-Xylene	10.628	106	187399	53.332	ug/l		99
70) Styrene	10.640	104	327913	53.259	ug/l		99
71) Bromoform	10.780	173	75620	51.882	ug/l	#	98
73) Isopropylbenzene	10.945	105	475596	51.835	ug/l		100
74) N-amyl acetate	10.829	43	216669	51.785	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	145518	52.421	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	158337	64.800	ug/l		89
77) Bromobenzene	11.183	156	117390	51.947	ug/l		99
78) n-propylbenzene	11.286	91	565595	52.147	ug/l		100
79) 2-Chlorotoluene	11.347	91	341195	51.361	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	388702	51.564	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	43877	45.792	ug/l		97
82) 4-Chlorotoluene	11.439	91	401172	51.132	ug/l		98
83) tert-Butylbenzene	11.695	119	391982	50.797	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	397498	52.011	ug/l		100
85) sec-Butylbenzene	11.872	105	467967	51.055	ug/l		100
86) p-Isopropyltoluene	11.988	119	392640	50.599	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	215979	51.456	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	218234	50.659	ug/l		100
89) n-Butylbenzene	12.311	91	365418	50.892	ug/l		98
90) Hexachloroethane	12.518	117	68460	50.250	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	206378	51.610	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	26906	47.873	ug/l		95
93) 1,2,4-Trichlorobenzene	13.567	180	132061	50.815	ug/l		99
94) Hexachlorobutadiene	13.707	225	40751	46.163	ug/l		98
95) Naphthalene	13.756	128	395649	49.995	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	118876	49.173	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

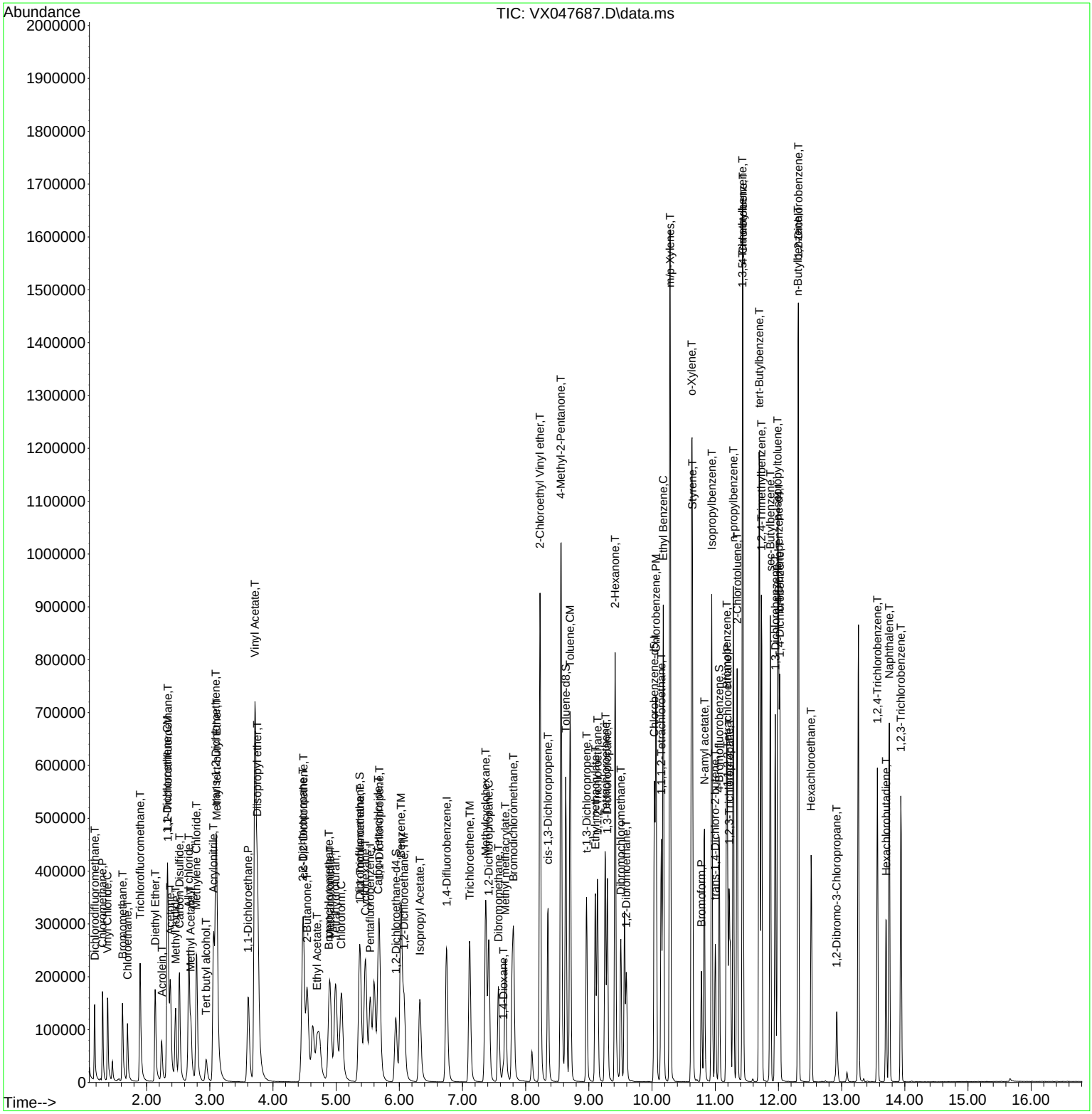
(#) = qualifier out of range (m) = manual integration (+) = signals summed

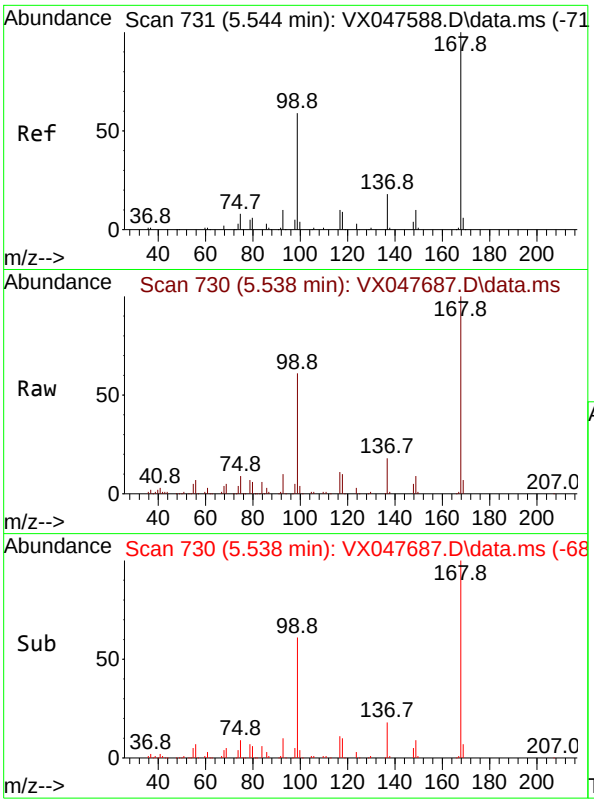
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
Data File : VX047687.D
Acq On : 19 Sep 2025 19:03
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 20 00:37:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



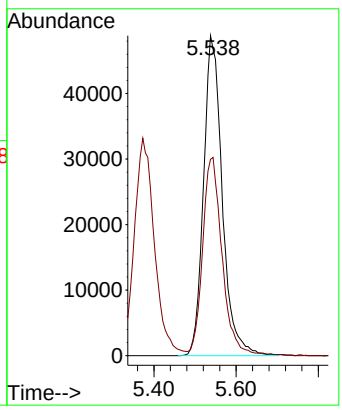


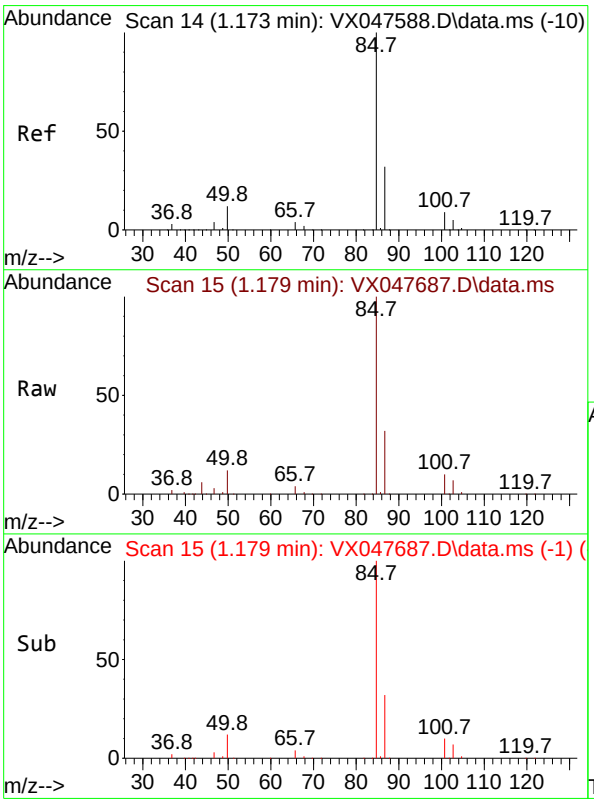
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 154405

Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2

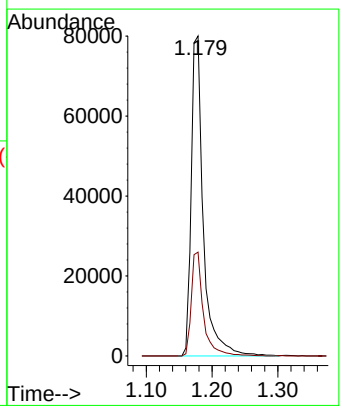


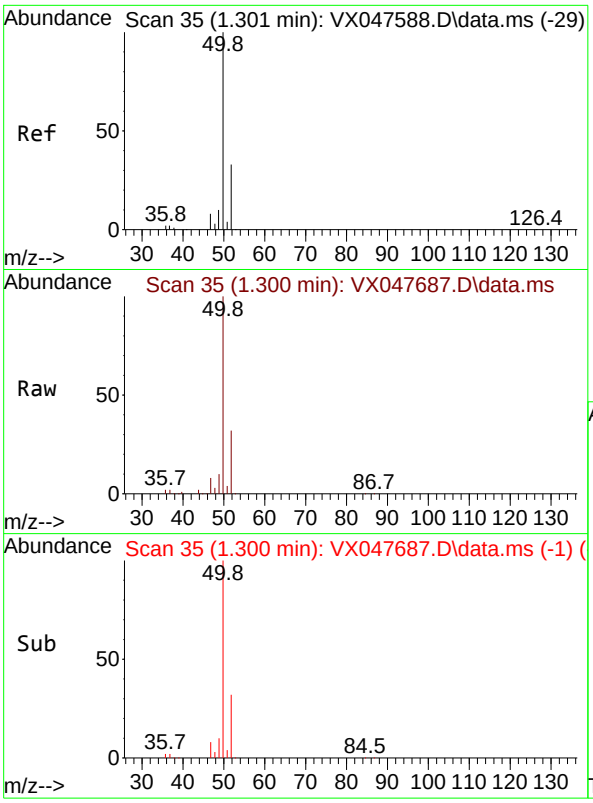


#2
Dichlorodifluoromethane
Concen: 63.588 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 85 Resp: 101670

Ion	Ratio	Lower	Upper
85	100		
87	32.5	15.8	47.3



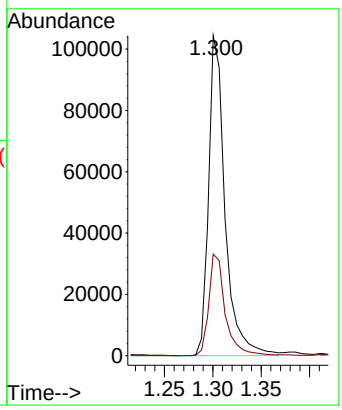


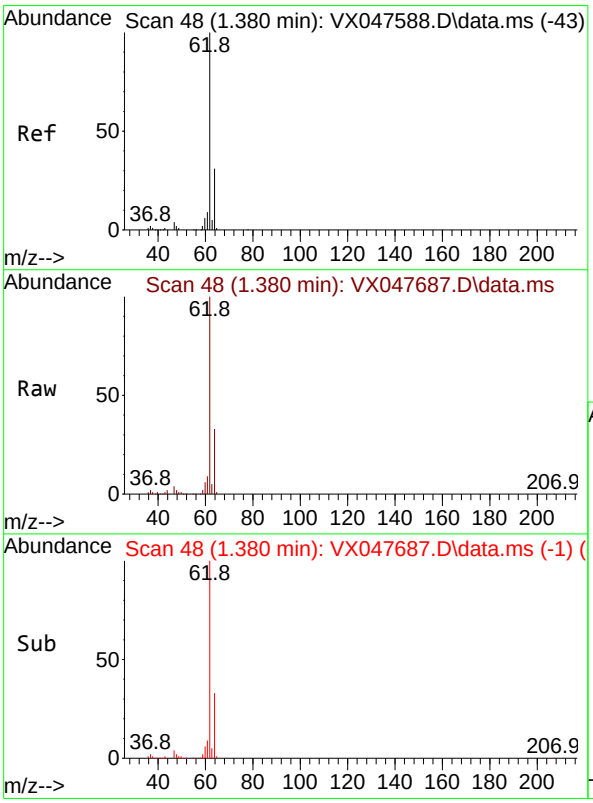
#3
Chloromethane
Concen: 58.927 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 123827

Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.1	39.1

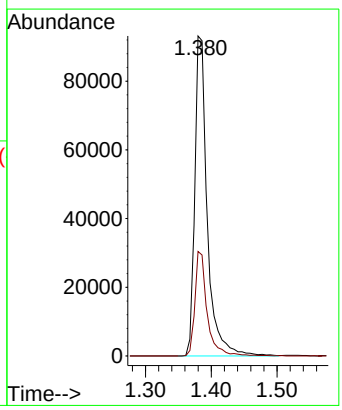


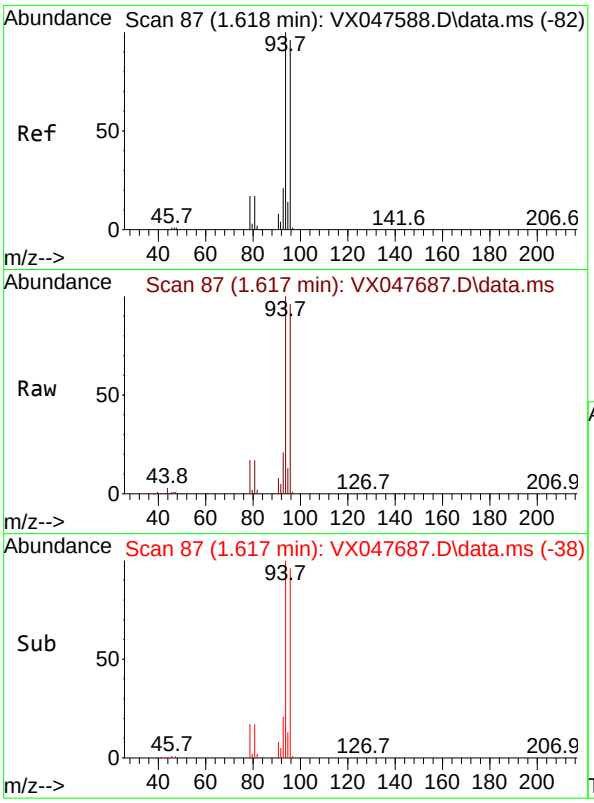


#4
Vinyl Chloride
Concen: 59.703 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 62 Resp: 122810

Ion	Ratio	Lower	Upper
62	100		
64	32.7	24.9	37.3



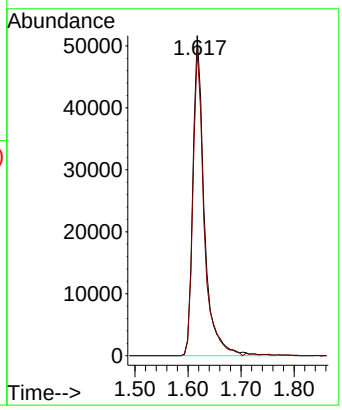


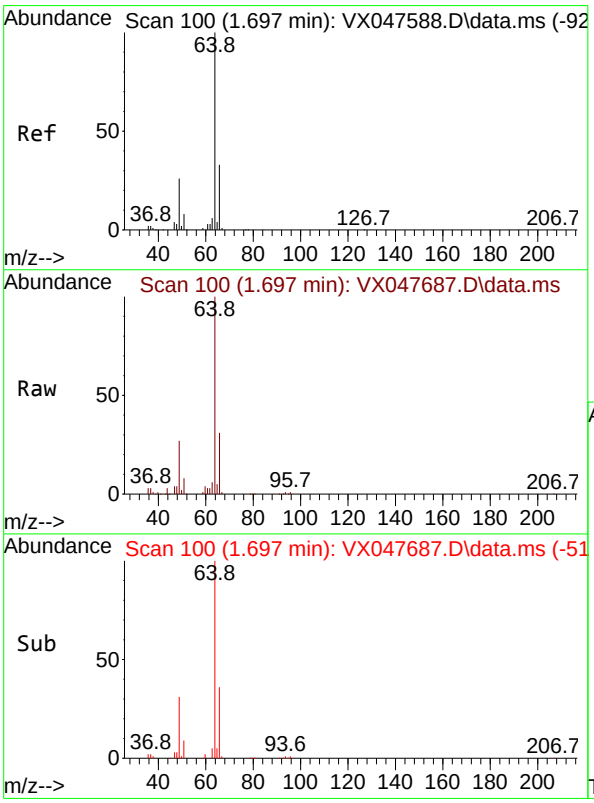
#5
Bromomethane
Concen: 59.499 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 77609

Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.6	115.0

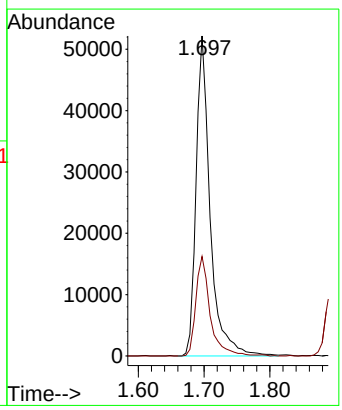


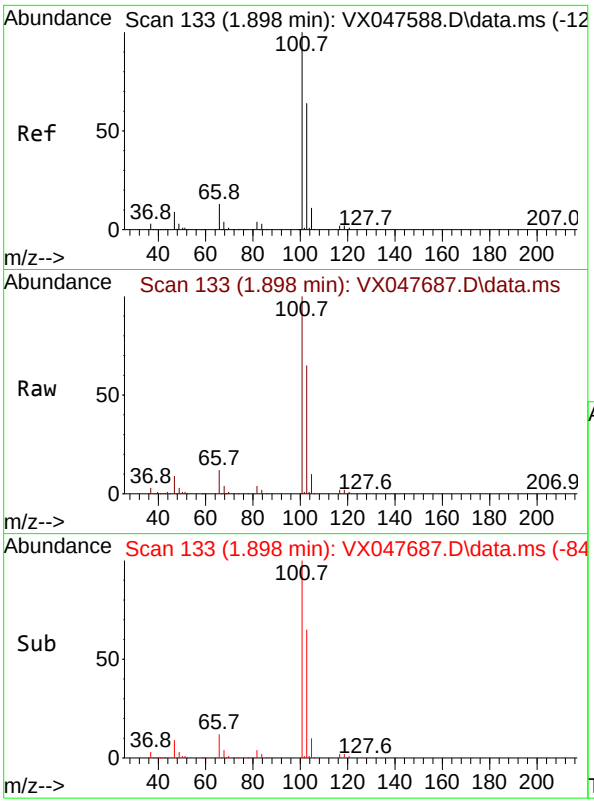


#6
Chloroethane
Concen: 56.391 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 64 Resp: 77528

Ion	Ratio	Lower	Upper
64	100		
66	31.1	26.1	39.1



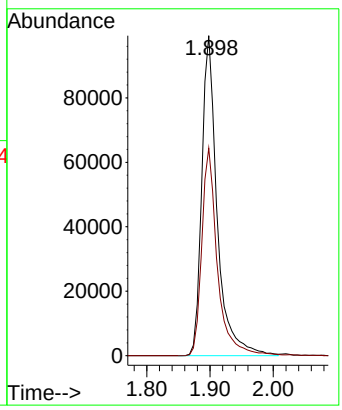


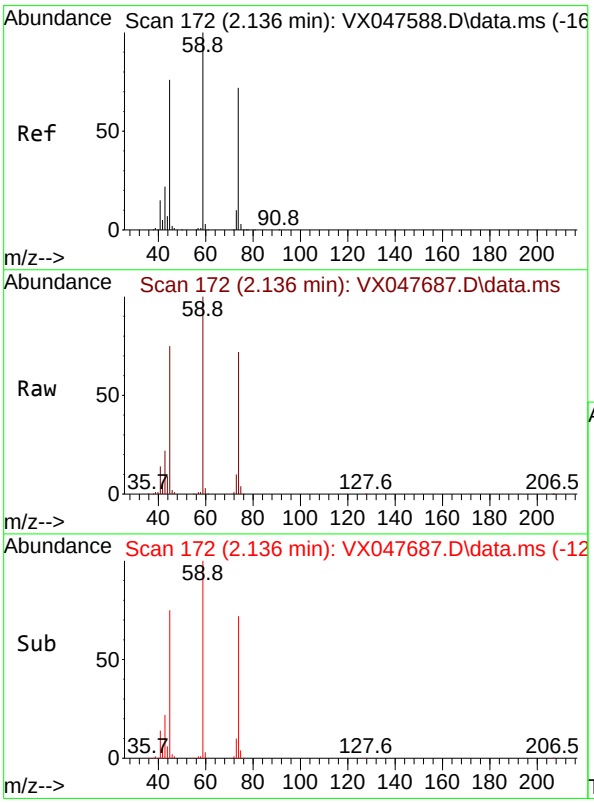
#7
Trichlorofluoromethane
Concen: 55.285 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 168856

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.4	77.2

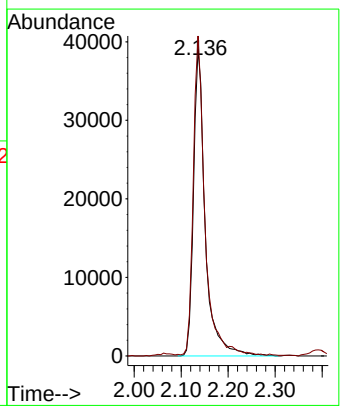


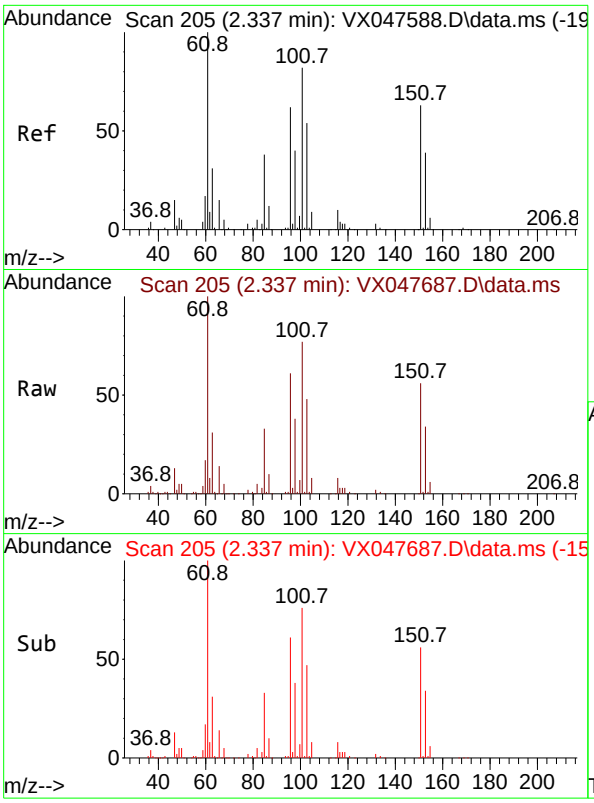


#8
Diethyl Ether
Concen: 54.429 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 74 Resp: 68004

Ion	Ratio	Lower	Upper
74	100		
45	103.2	52.3	156.8



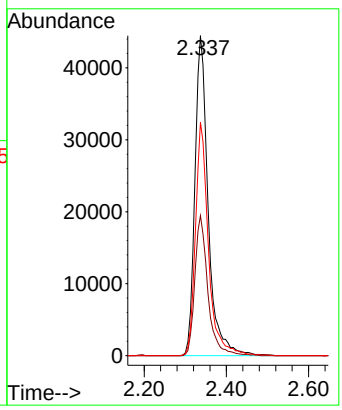


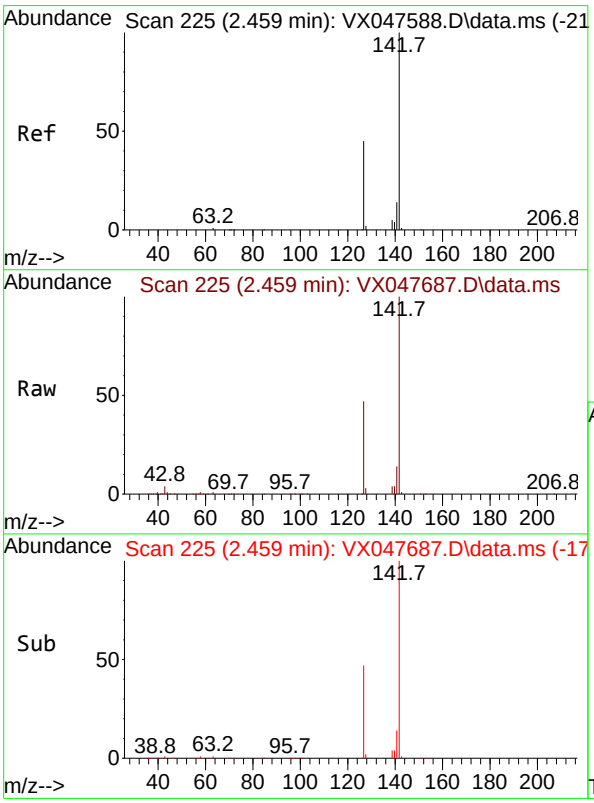
#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.814 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 99678

Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.5	53.3
151	71.7	59.4	89.0

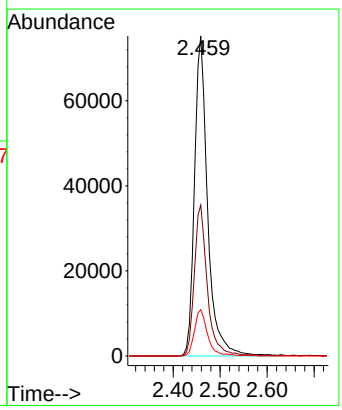


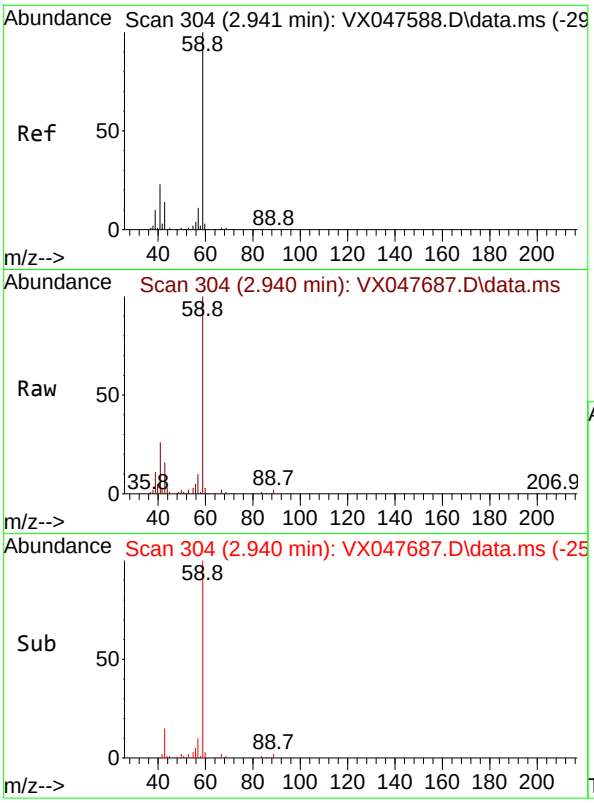


#10
Methyl Iodide
Concen: 52.731 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:142 Resp: 146871

Ion	Ratio	Lower	Upper
142	100		
127	46.7	37.2	55.8
141	14.4	11.4	17.0



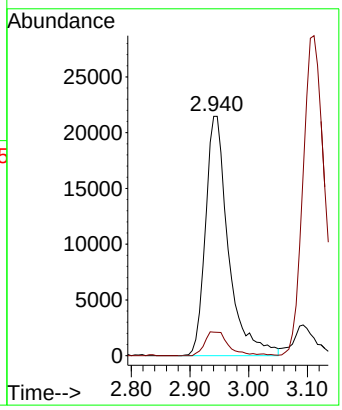


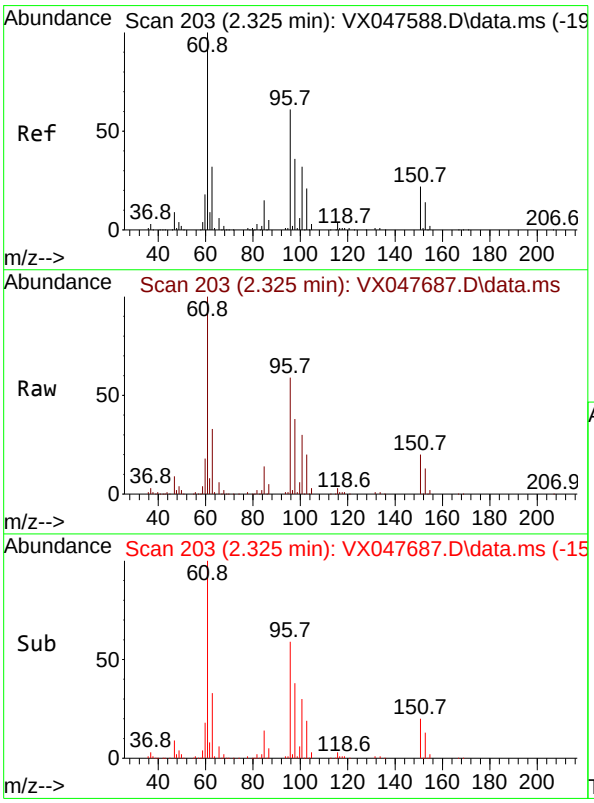
#11
Tert butyl alcohol
Concen: 212.661 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 58211

Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.3	12.5

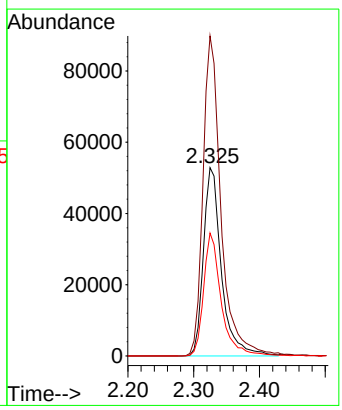


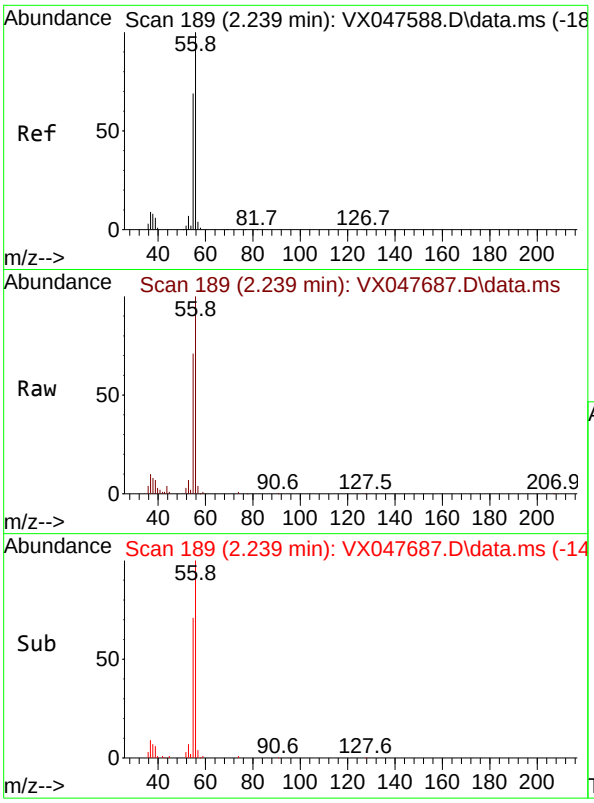


#12
1,1-Dichloroethene
Concen: 55.015 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 96 Resp: 100925

Ion	Ratio	Lower	Upper
96	100		
61	169.9	131.0	196.6
98	65.2	47.7	71.5



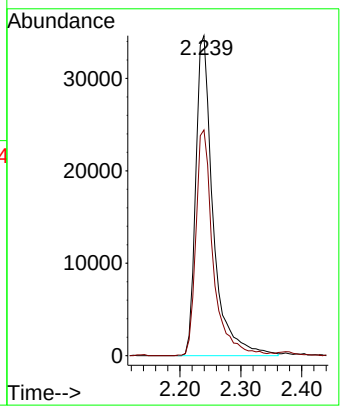


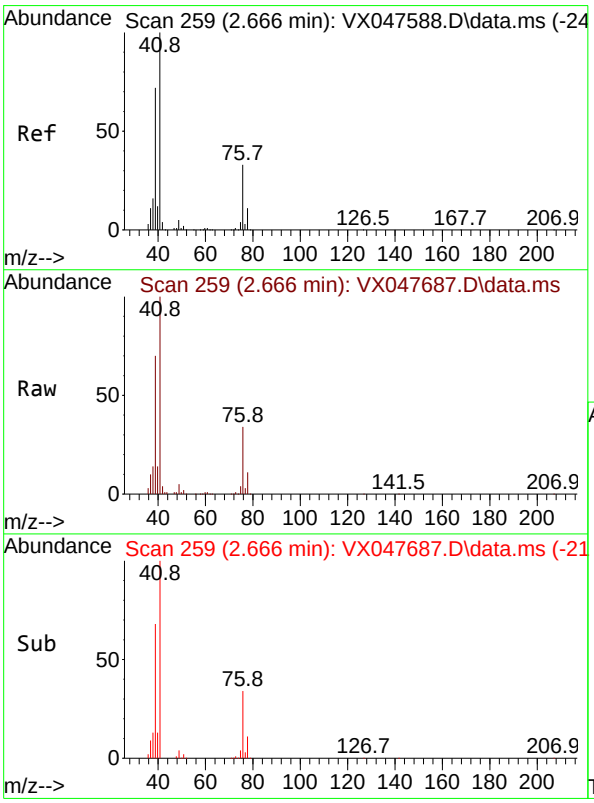
#13
Acrolein
Concen: 271.404 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 68460

Ion	Ratio	Lower	Upper
56	100		
55	70.2	57.2	85.8

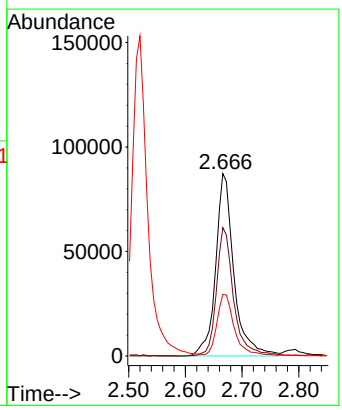


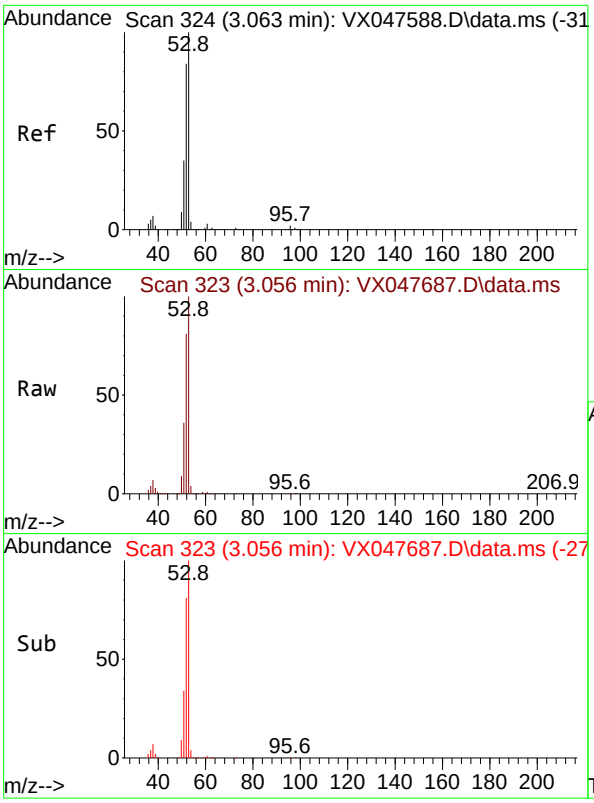


#14
Allyl chloride
Concen: 51.642 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 41 Resp: 195491

Ion	Ratio	Lower	Upper
41	100		
39	66.2	54.7	82.1
76	32.4	25.7	38.5



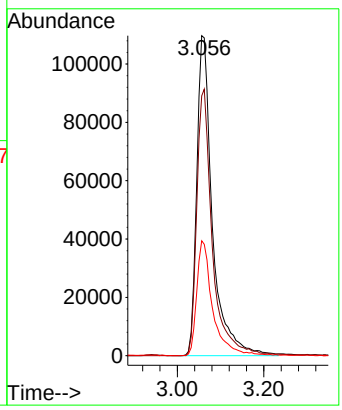


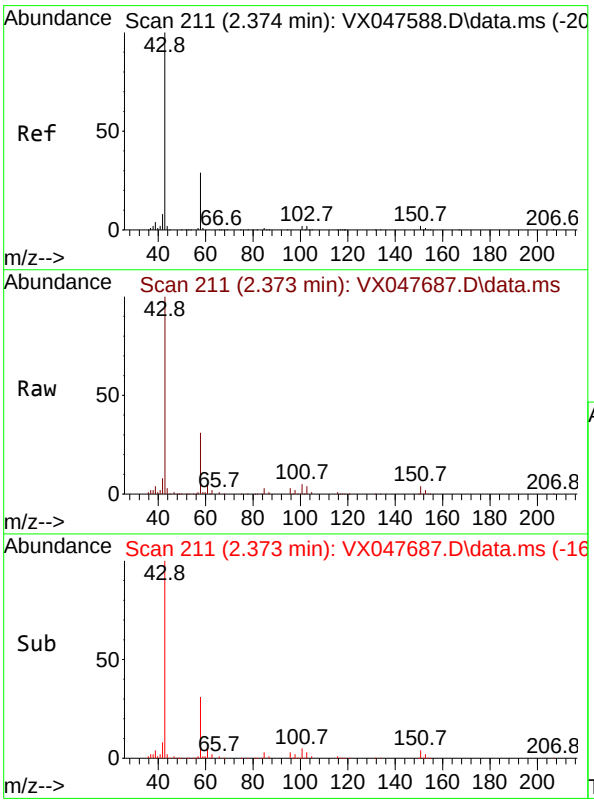
#15
Acrylonitrile
Concen: 272.421 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 276208

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.4	99.6
51	36.7	29.5	44.3

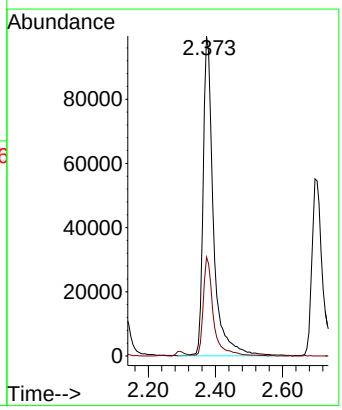


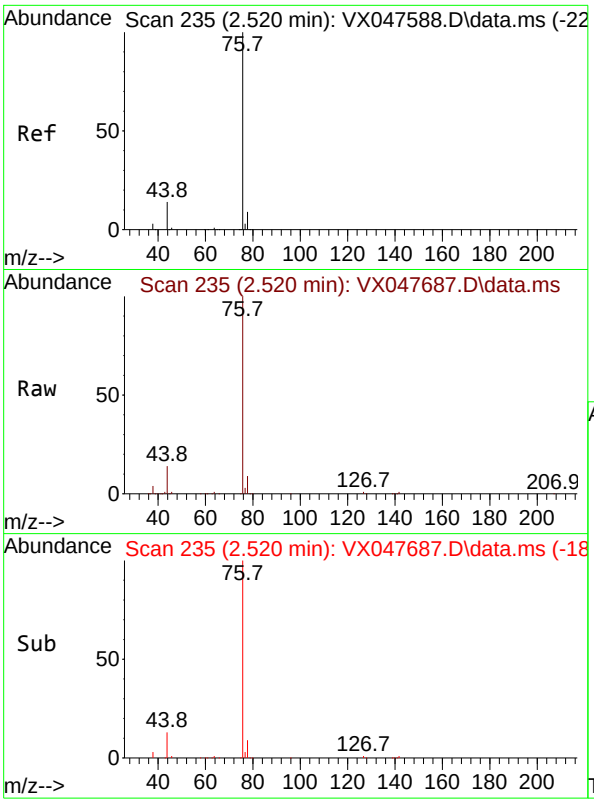


#16
Acetone
Concen: 198.313 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 211924

Ion	Ratio	Lower	Upper
43	100		
58	31.2	23.4	35.0



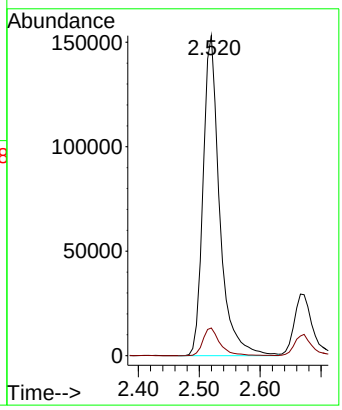


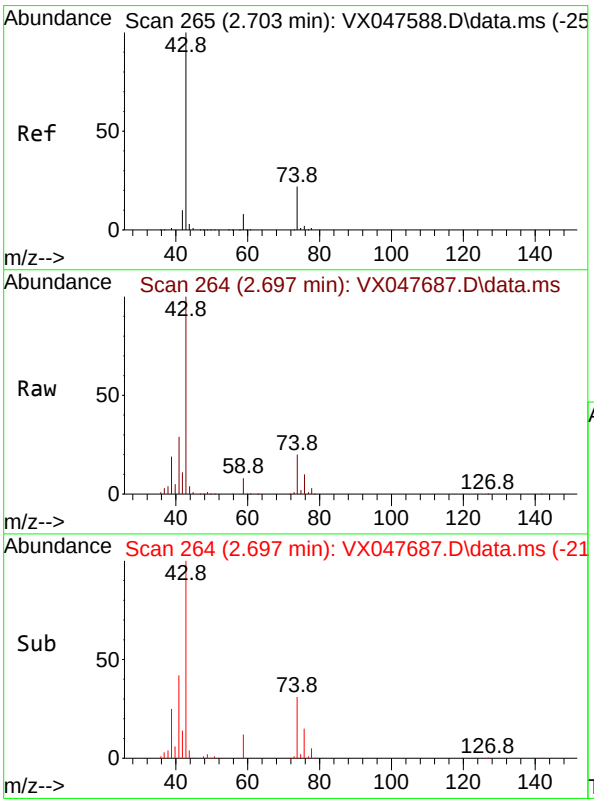
#17
Carbon Disulfide
Concen: 57.679 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 289670

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.8	10.2

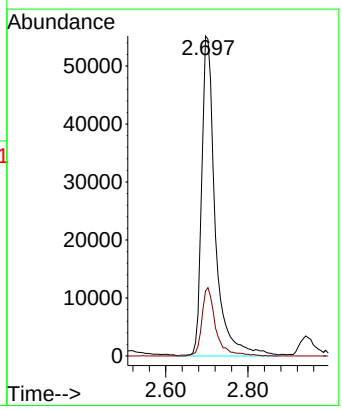


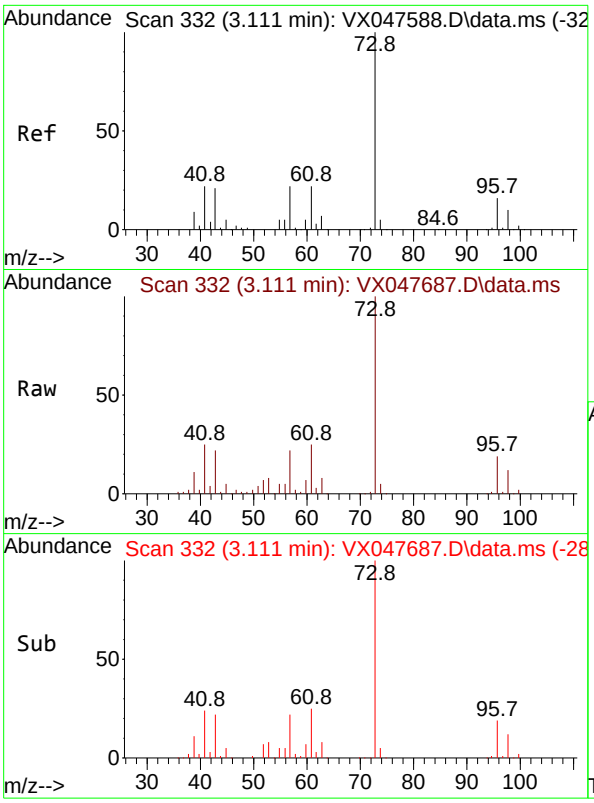


#18
Methyl Acetate
Concen: 53.432 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 127073

Ion	Ratio	Lower	Upper
43	100		
74	21.7	17.4	26.2



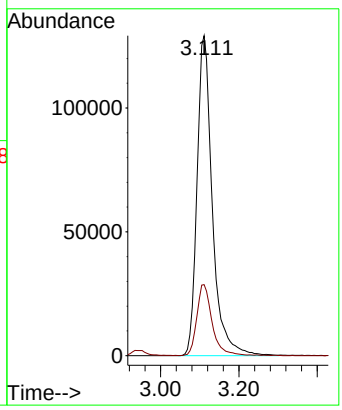


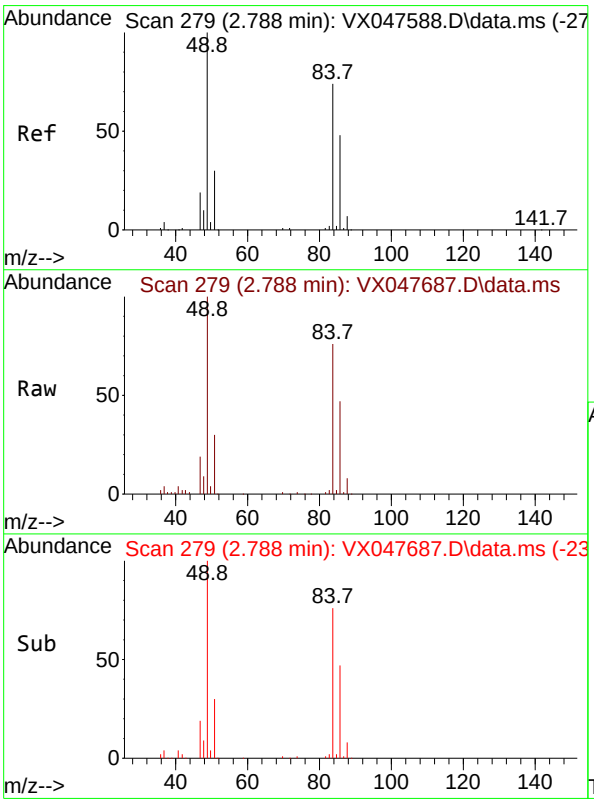
#19
Methyl tert-butyl Ether
Concen: 52.436 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 351150

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2

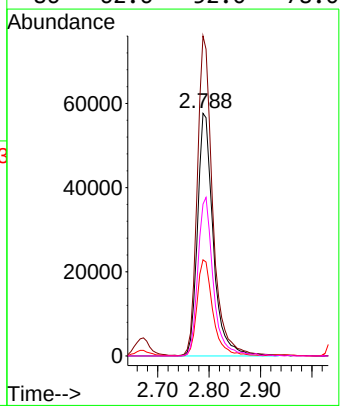


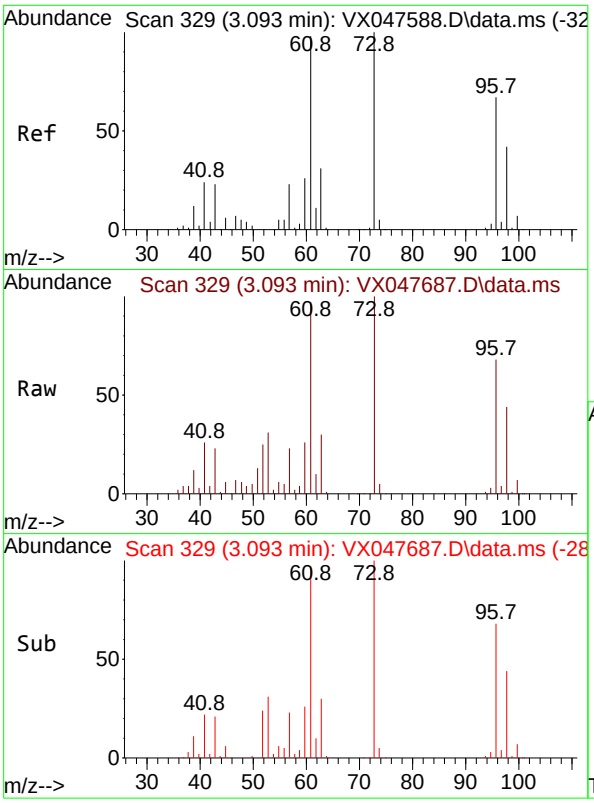


#20
Methylene Chloride
Concen: 54.250 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 84 Resp: 122715

Ion	Ratio	Lower	Upper
84	100		
49	131.7	108.6	162.8
51	40.1	32.6	48.8
86	62.6	52.0	78.0



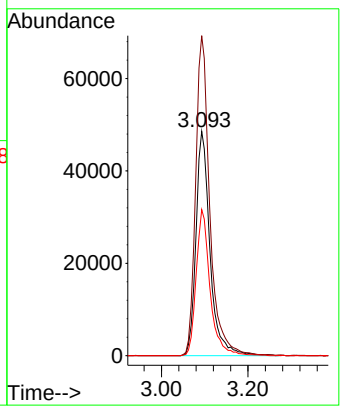


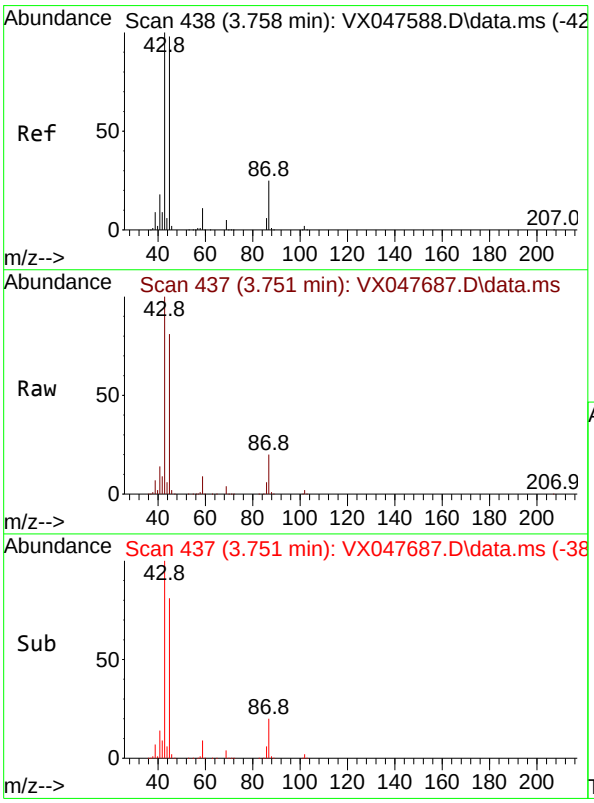
#21
trans-1,2-Dichloroethene
Concen: 55.385 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 109388

Ion	Ratio	Lower	Upper
96	100		
61	142.7	116.2	174.2
98	65.1	49.3	73.9

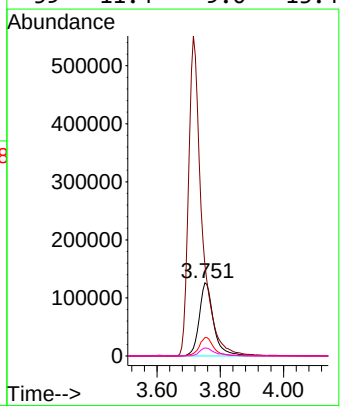


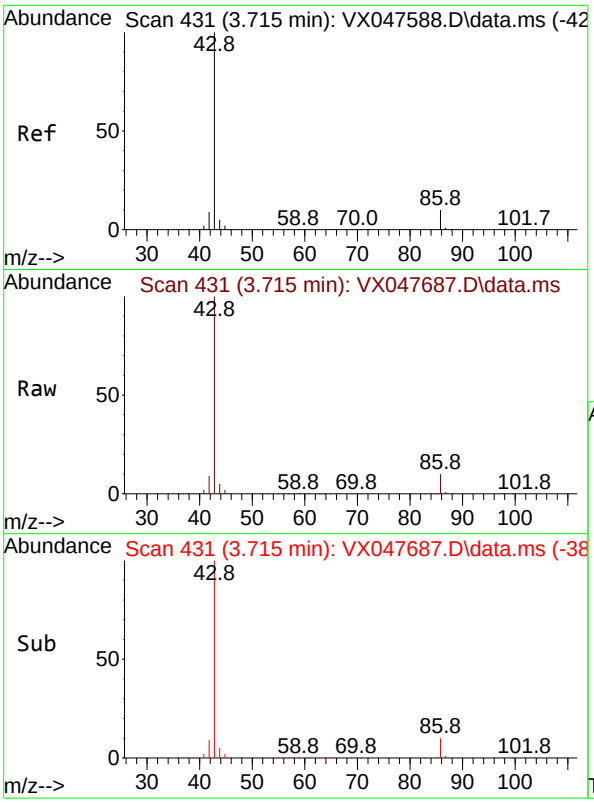


#22
Diisopropyl ether
Concen: 54.541 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 45 Resp: 400135

Ion	Ratio	Lower	Upper
45	100		
43	123.7	81.0	121.4#
87	25.1	20.3	30.5
59	11.4	9.0	13.4



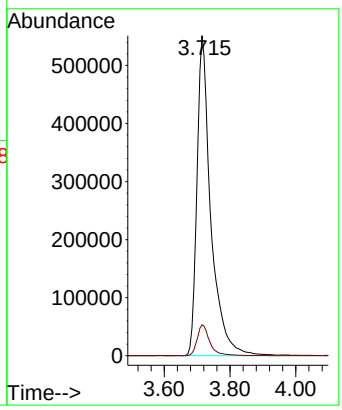


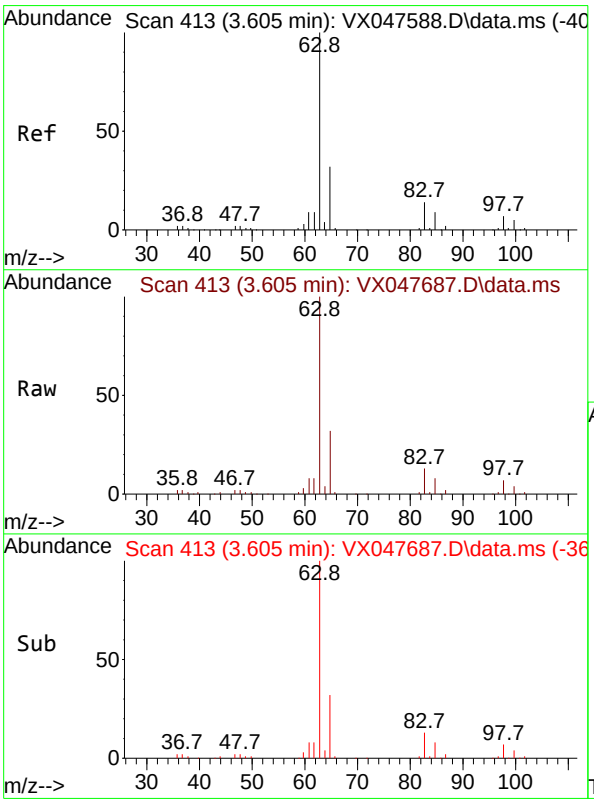
#23
Vinyl Acetate
Concen: 274.498 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1611770

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.8	11.8

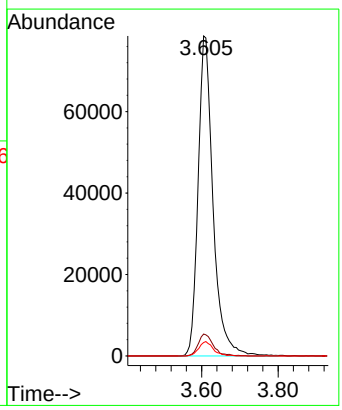


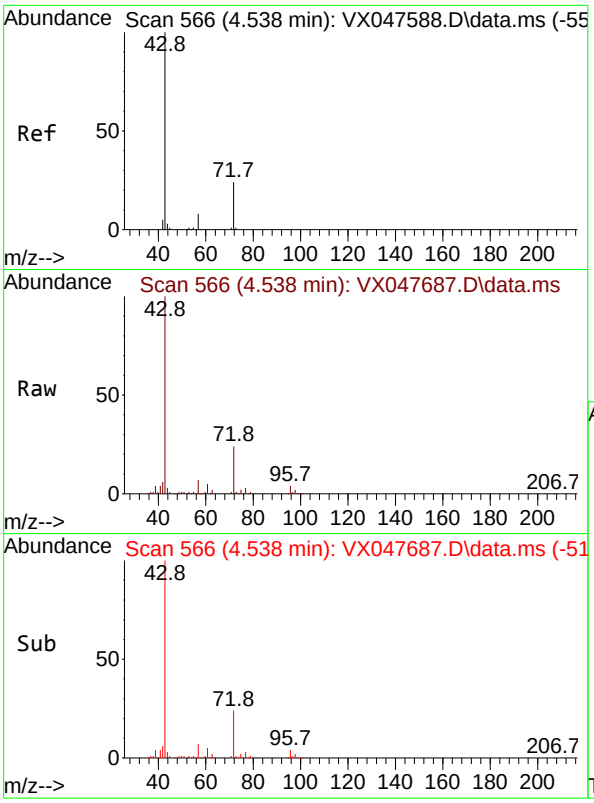


#24
1,1-Dichloroethane
Concen: 54.560 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 63 Resp: 212751

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.2	2.3	6.9



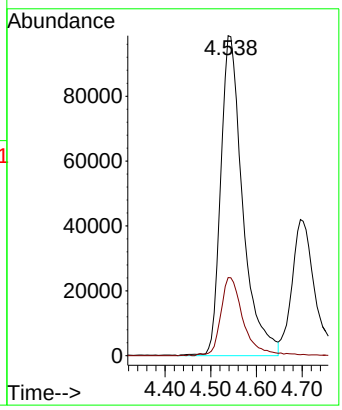


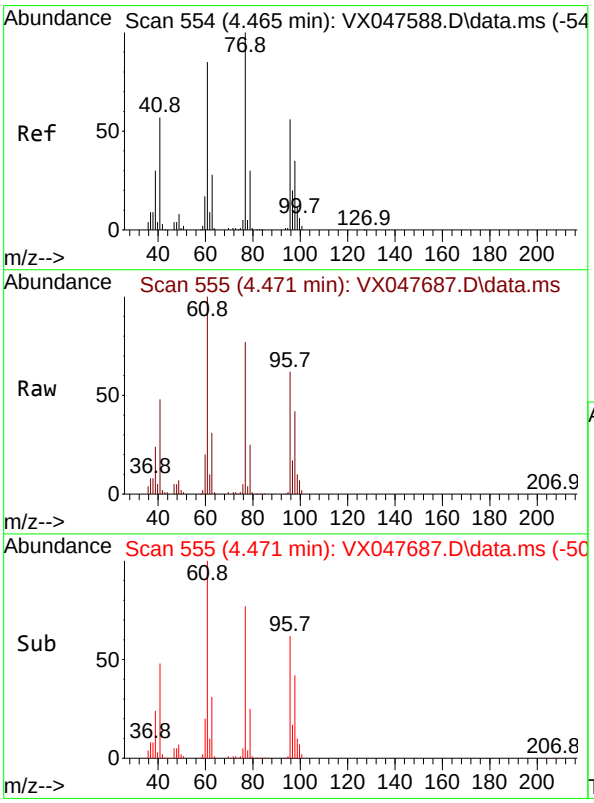
#25
2-Butanone
Concen: 247.197 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 329510

Ion	Ratio	Lower	Upper
43	100		
72	24.5	20.1	30.1

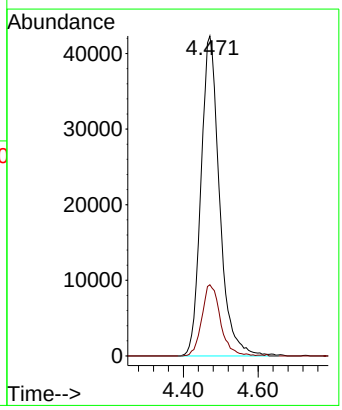


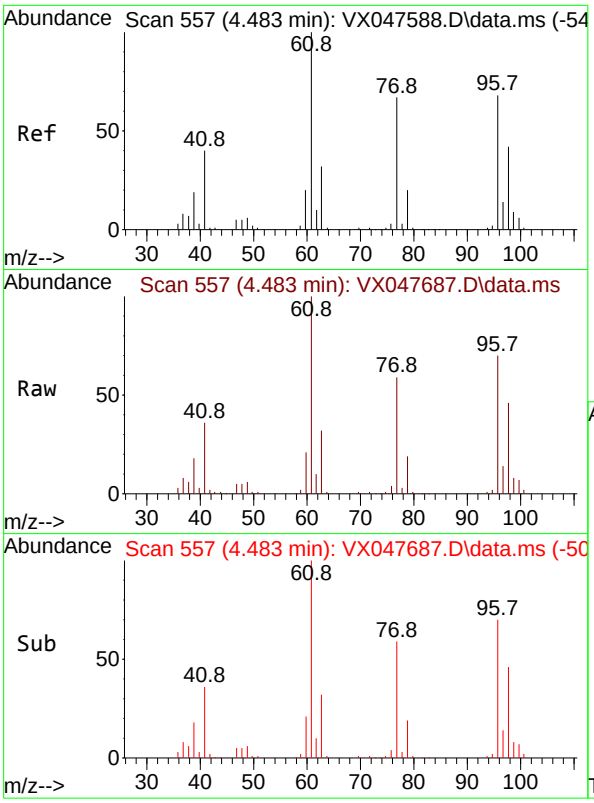


#26
2,2-Dichloropropane
Concen: 44.928 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 77 Resp: 145629

Ion	Ratio	Lower	Upper
77	100		
97	22.4	10.9	32.7



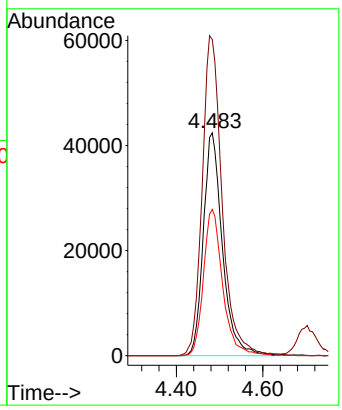


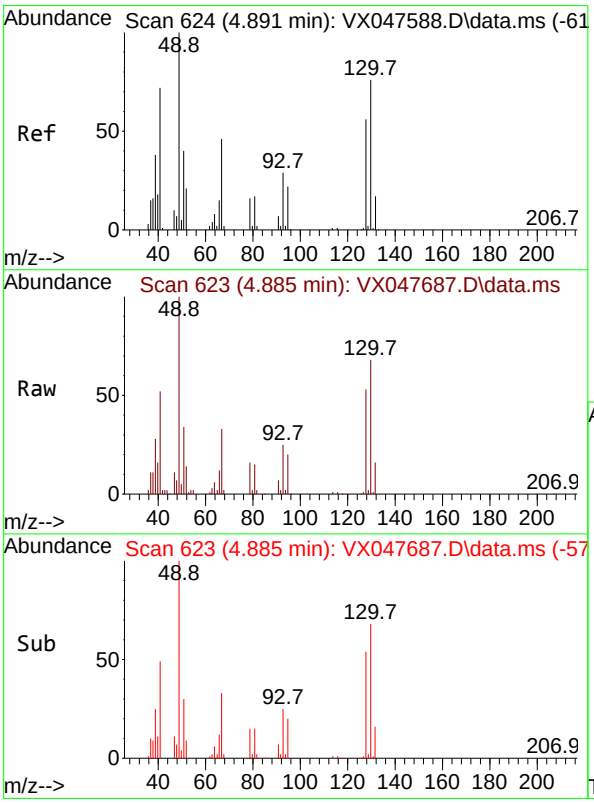
#27
cis-1,2-Dichloroethene
Concen: 53.677 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 129834

Ion	Ratio	Lower	Upper
96	100		
61	149.6	0.0	303.2
98	66.1	0.0	127.8

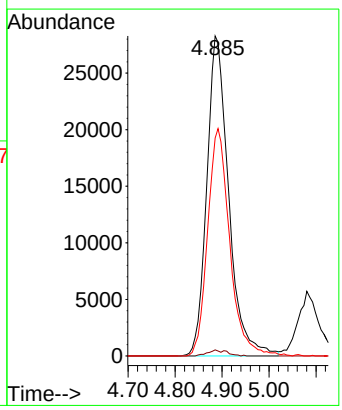


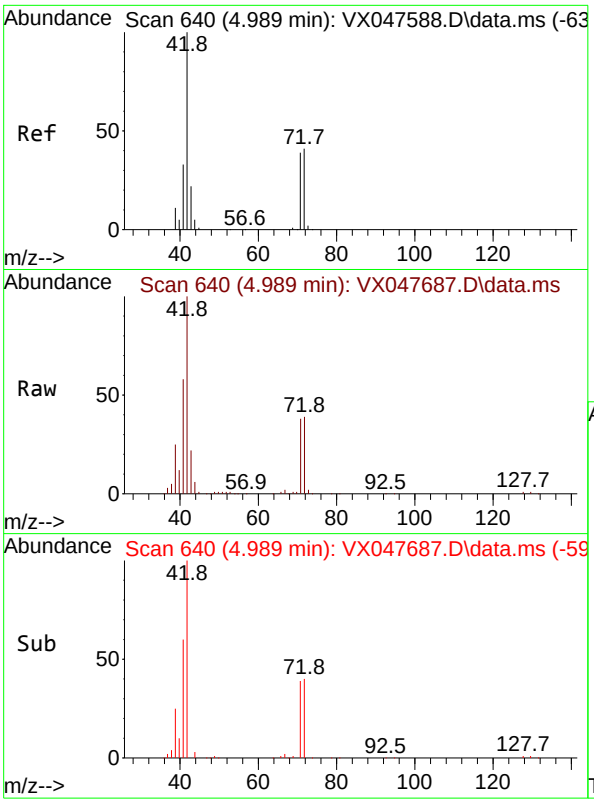


#28
Bromochloromethane
Concen: 53.668 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 49 Resp: 91361

Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	3.2
130	71.8	57.8	86.8



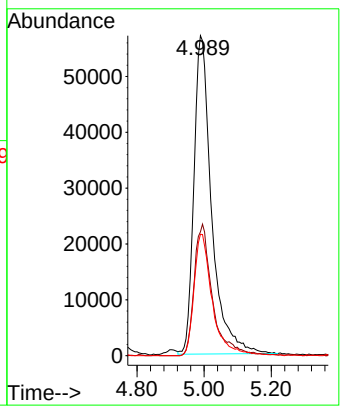


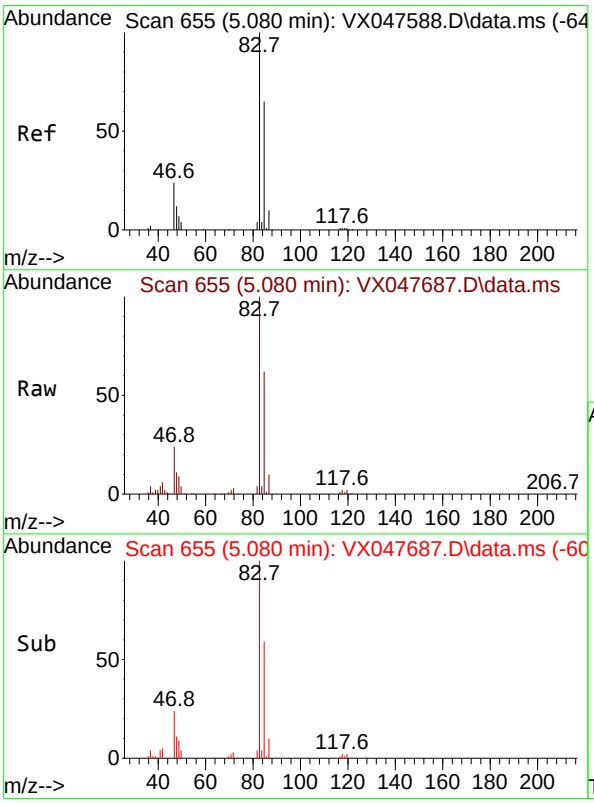
#29
Tetrahydrofuran
Concen: 260.441 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 208846

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.2	51.2
71	39.4	31.9	47.9

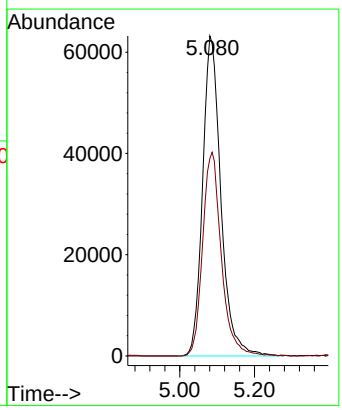


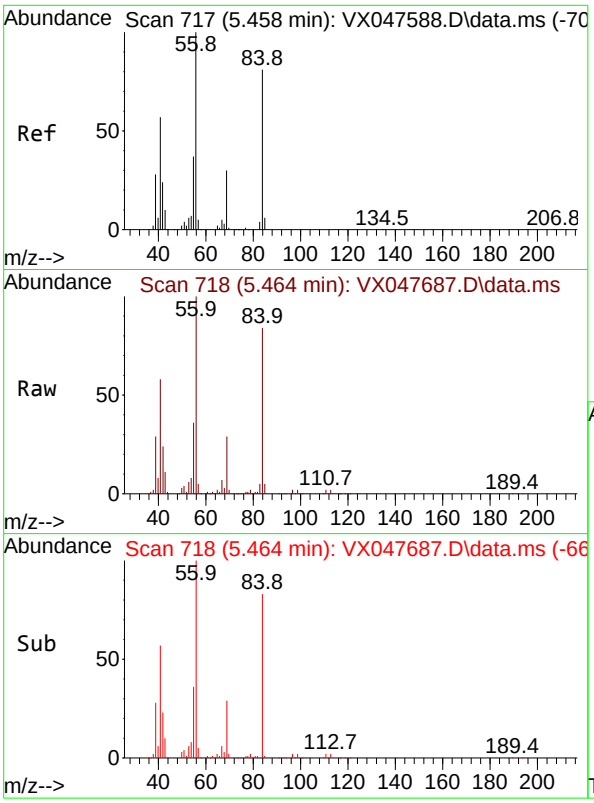


#30
Chloroform
Concen: 54.443 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 83 Resp: 214531

Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.8	77.6



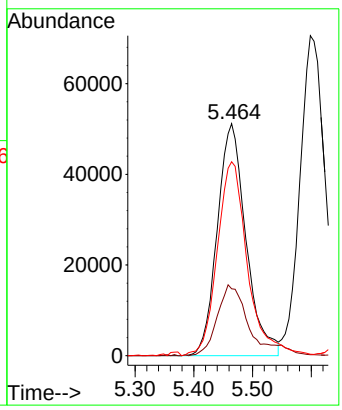


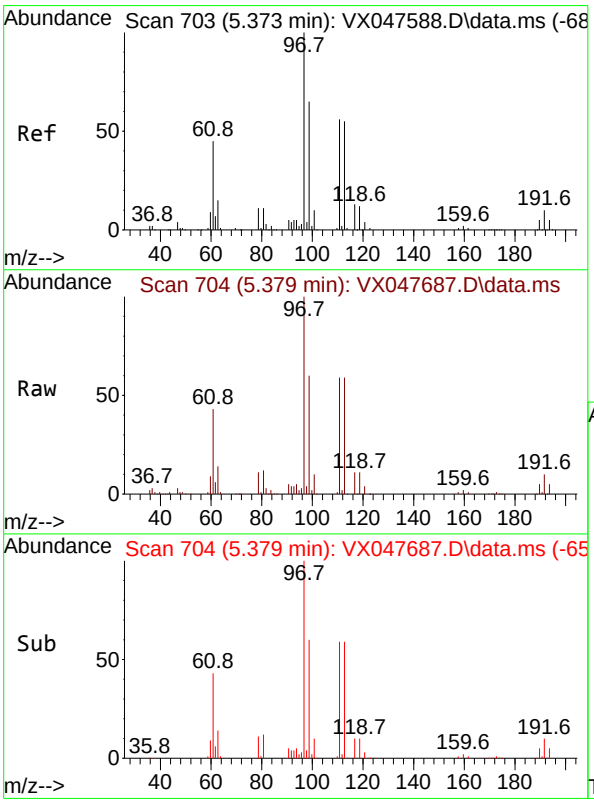
#31
Cyclohexane
Concen: 53.387 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 173386

Ion	Ratio	Lower	Upper
56	100		
69	28.3	23.8	35.8
84	82.0	64.6	97.0

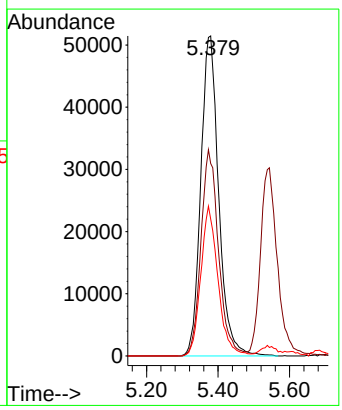


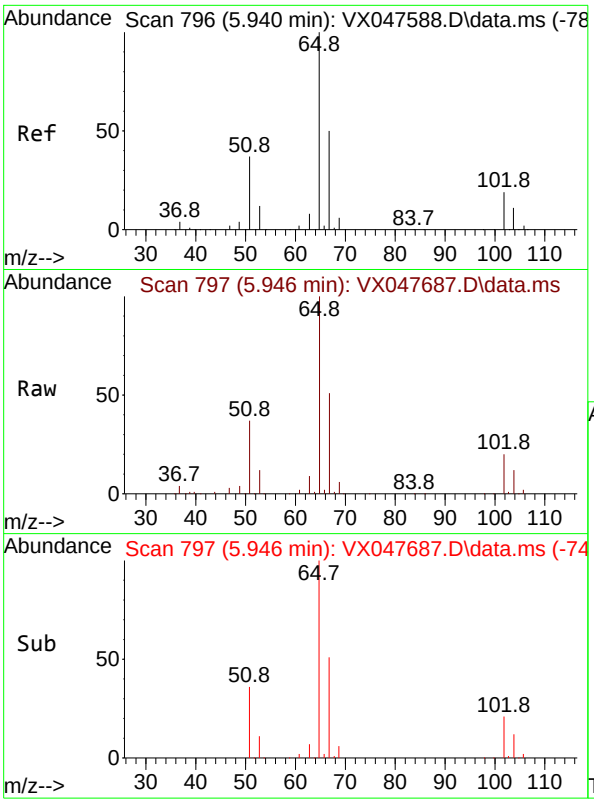


#32
1,1,1-Trichloroethane
Concen: 53.474 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 97 Resp: 178728

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	45.0	35.8	53.8



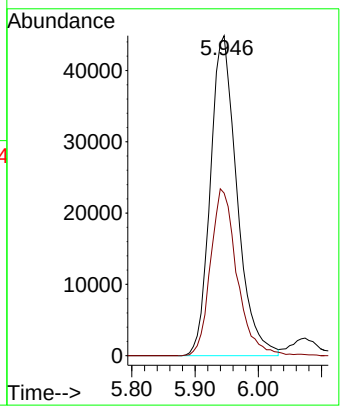


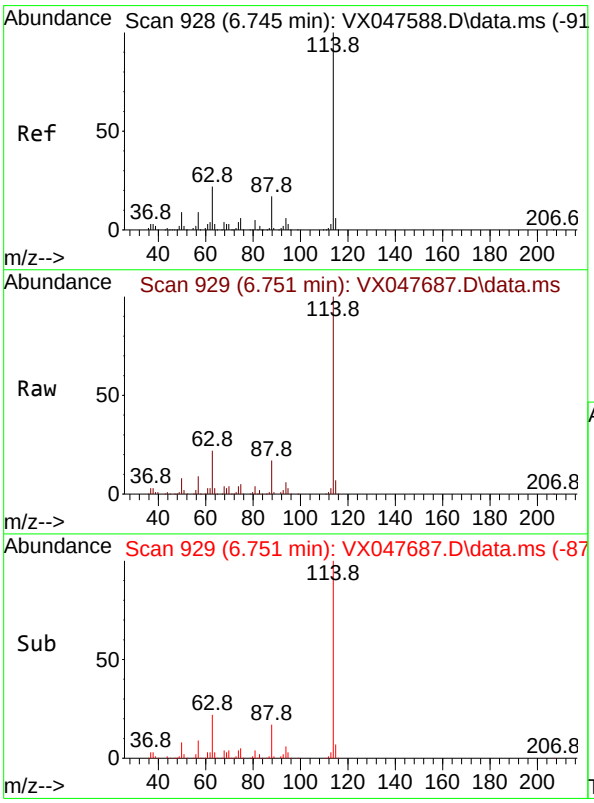
#33
1,2-Dichloroethane-d4
Concen: 53.282 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 130953

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0

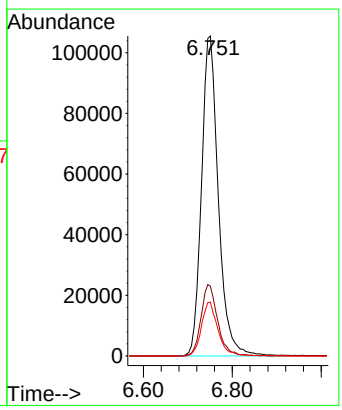


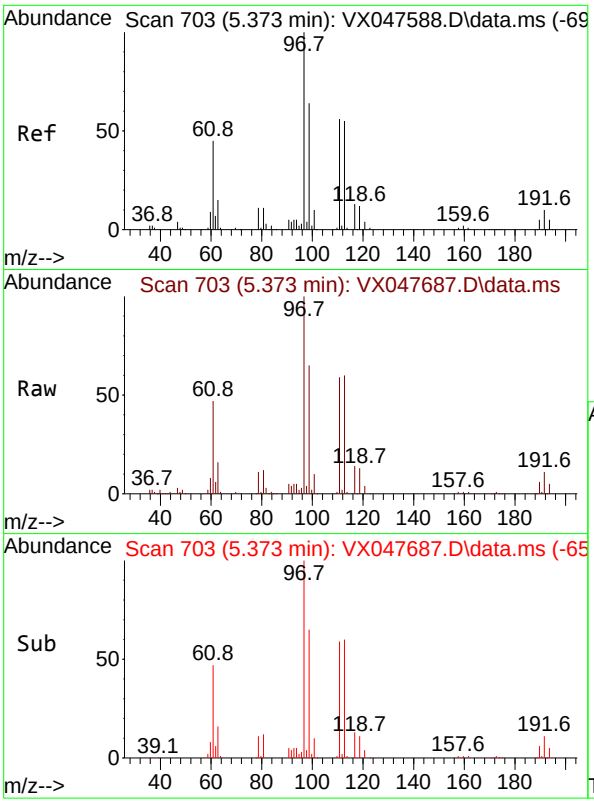


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:114 Resp: 278359

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.0
88	16.8	0.0	34.2



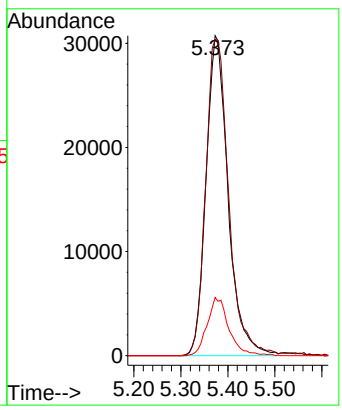


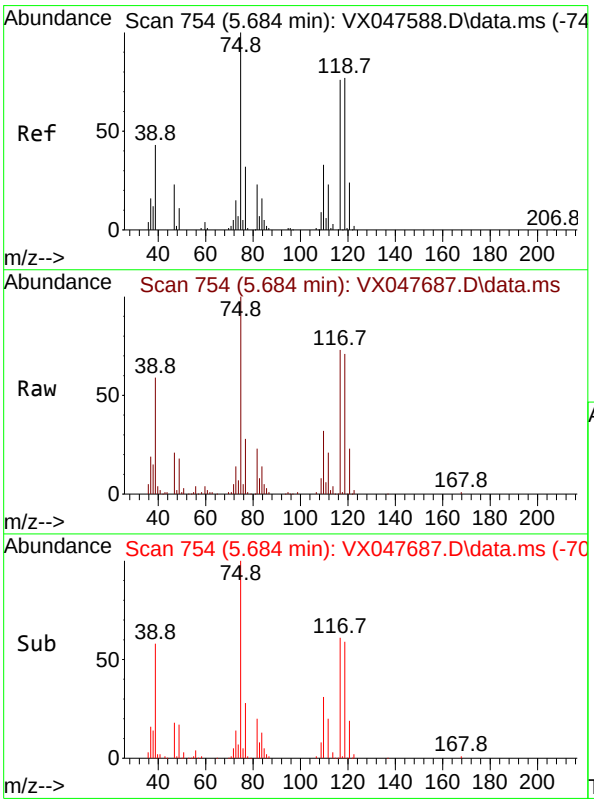
#35
Dibromofluoromethane
Concen: 53.721 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 100288

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	17.9	14.2	21.4

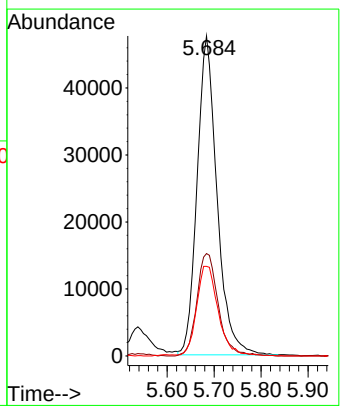


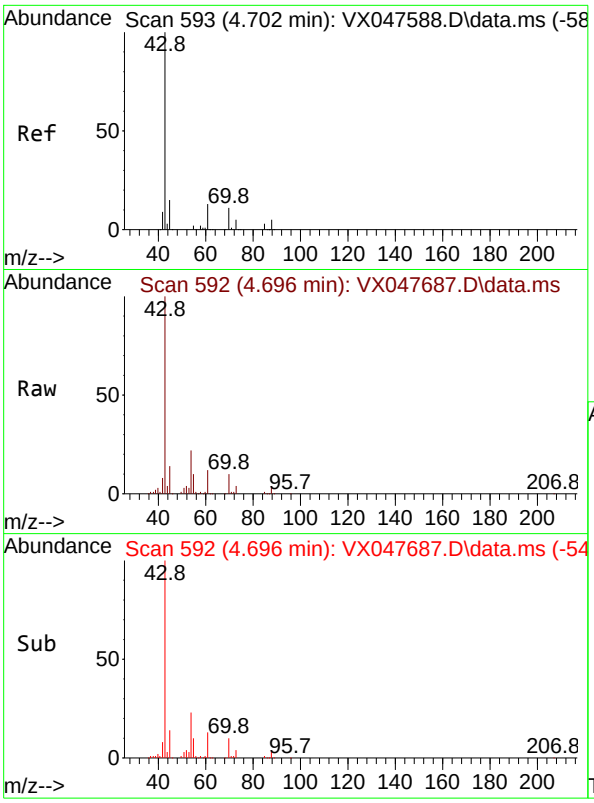


#36
1,1-Dichloropropene
Concen: 51.362 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 140108

Ion	Ratio	Lower	Upper
75	100		
110	34.5	16.7	50.1
77	30.8	24.3	36.5



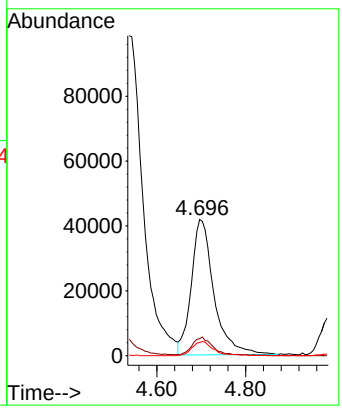


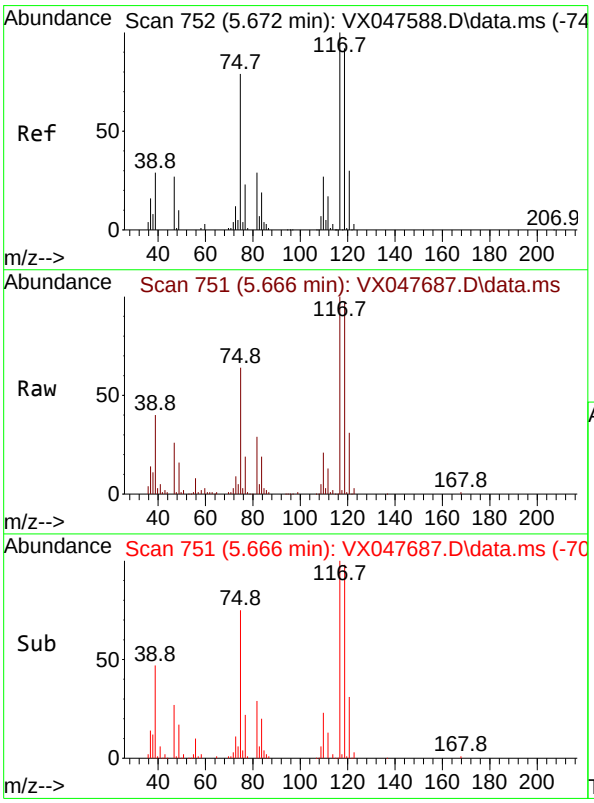
#37
Ethyl Acetate
Concen: 50.499 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 147497

Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.9	7.9	11.9

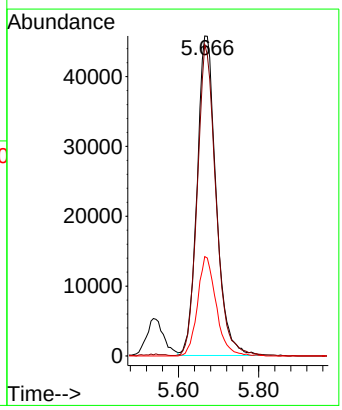


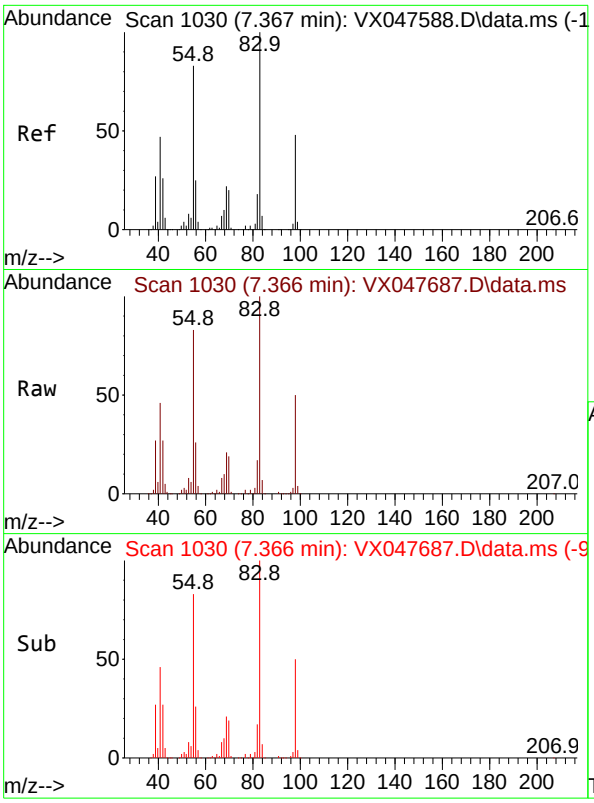


#38
Carbon Tetrachloride
Concen: 50.831 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:117 Resp: 150656

Ion	Ratio	Lower	Upper
117	100		
119	97.5	73.4	110.2
121	31.1	23.8	35.6



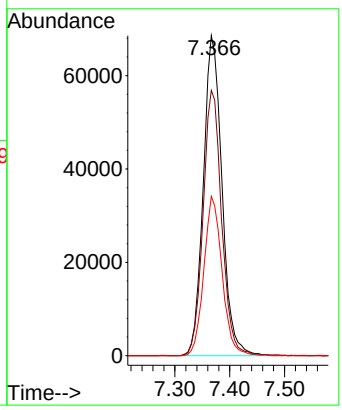


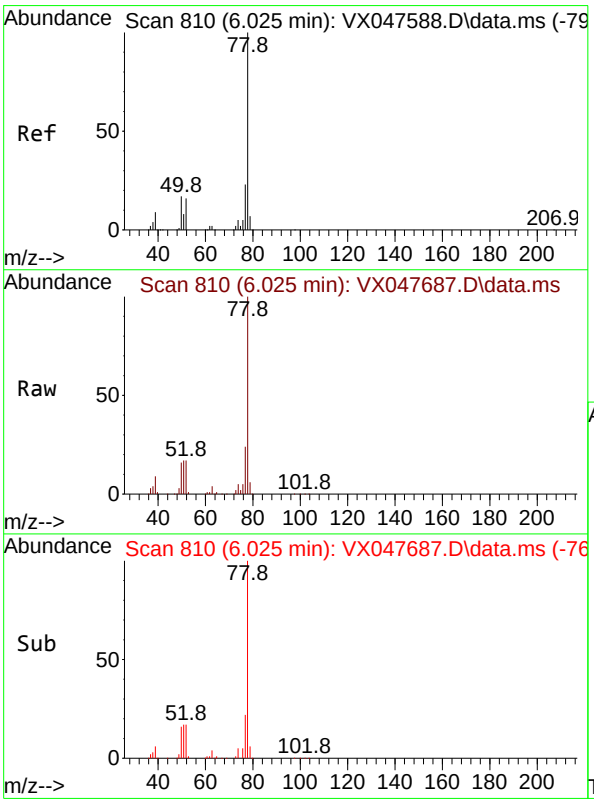
#39
Methylcyclohexane
Concen: 52.363 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 162143

Ion	Ratio	Lower	Upper
83	100		
55	82.9	66.4	99.6
98	49.7	38.1	57.1

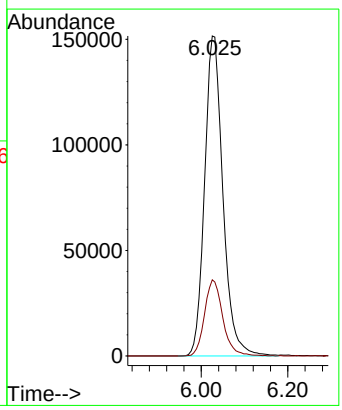


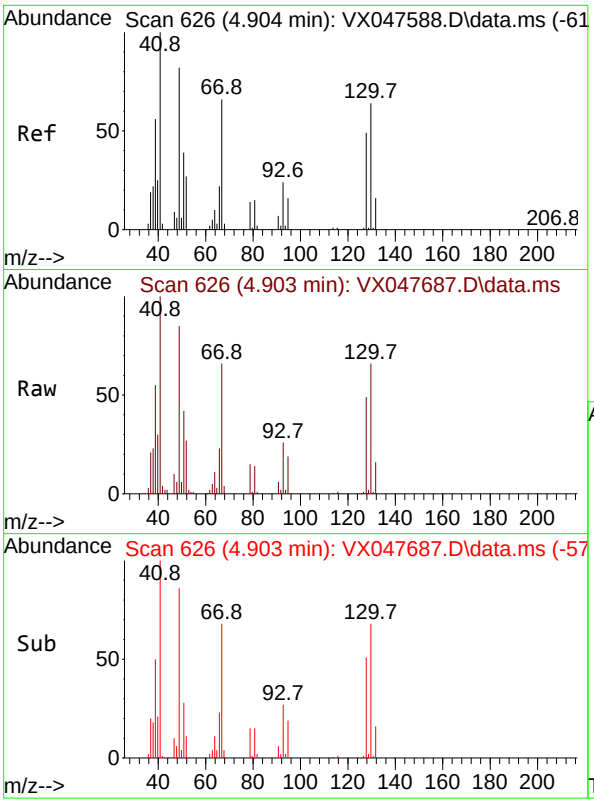


#40
Benzene
Concen: 53.802 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 78 Resp: 445760

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2



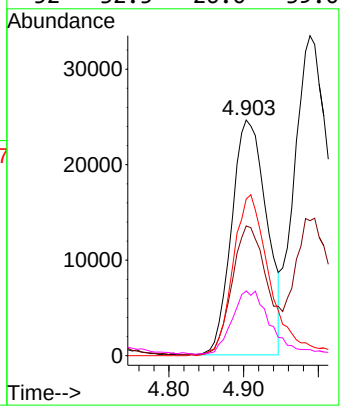


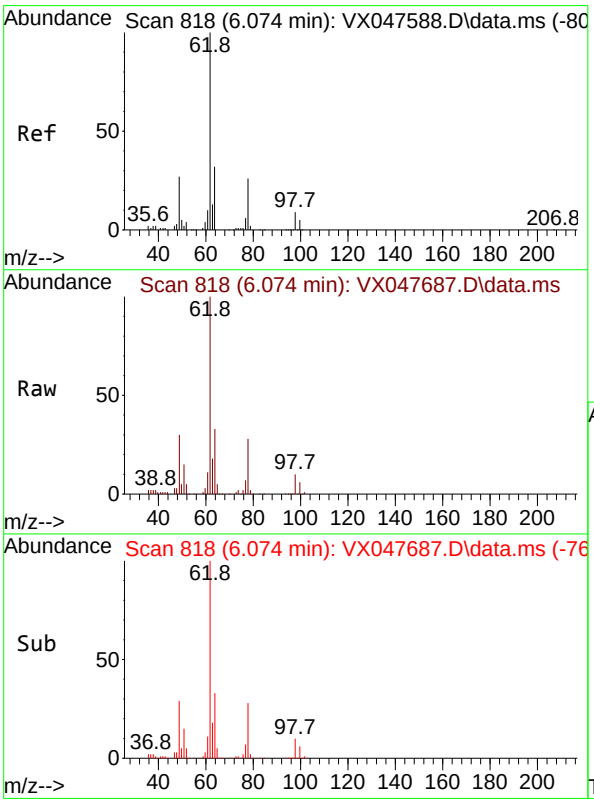
#41
Methacrylonitrile
Concen: 53.000 ug/l
RT: 4.903 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 79917

Ion	Ratio	Lower	Upper
41	100		
39	55.8	43.3	64.9
67	73.8	58.6	87.8
52	32.5	26.0	39.0

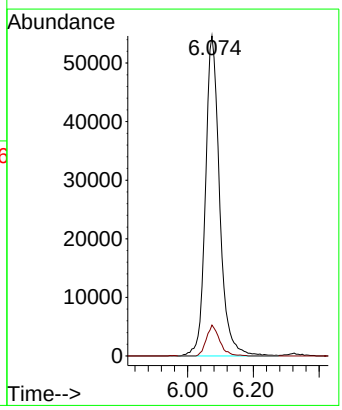


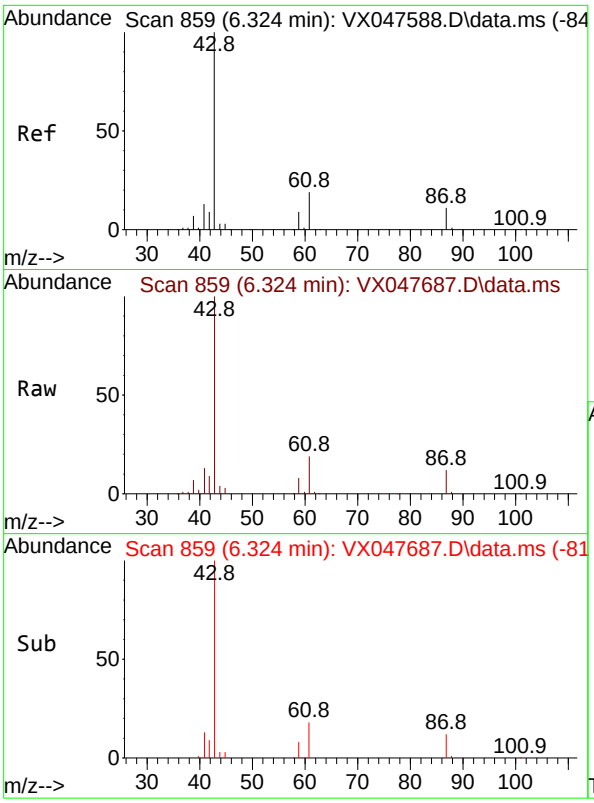


#42
1,2-Dichloroethane
Concen: 51.951 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 62 Resp: 163773

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0



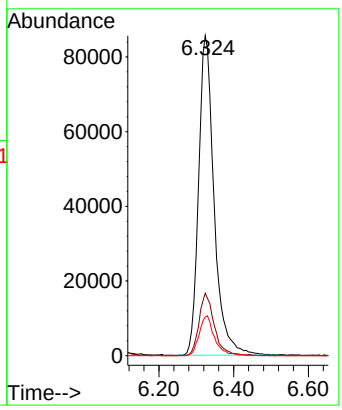


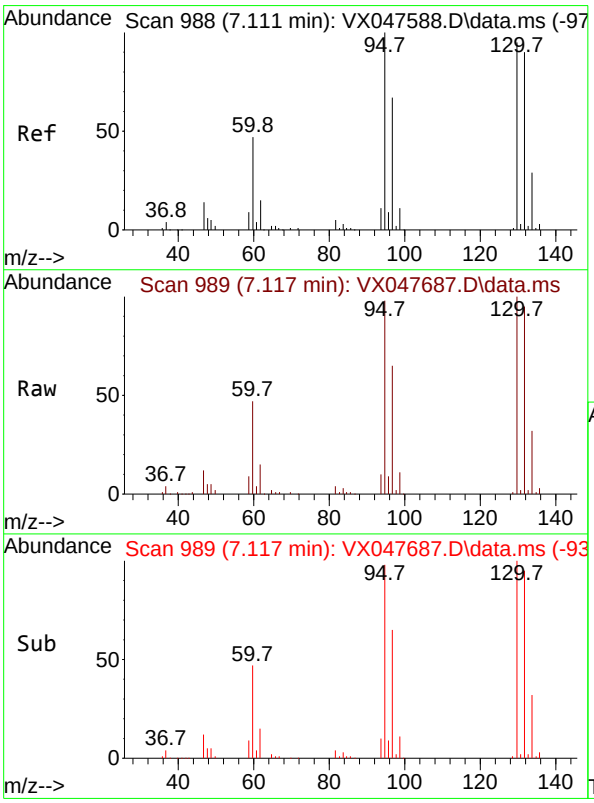
#43
Isopropyl Acetate
Concen: 51.410 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 246265

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	12.3	9.6	14.4

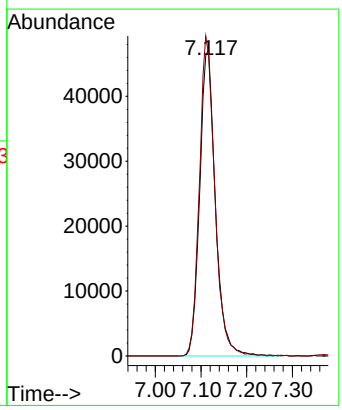


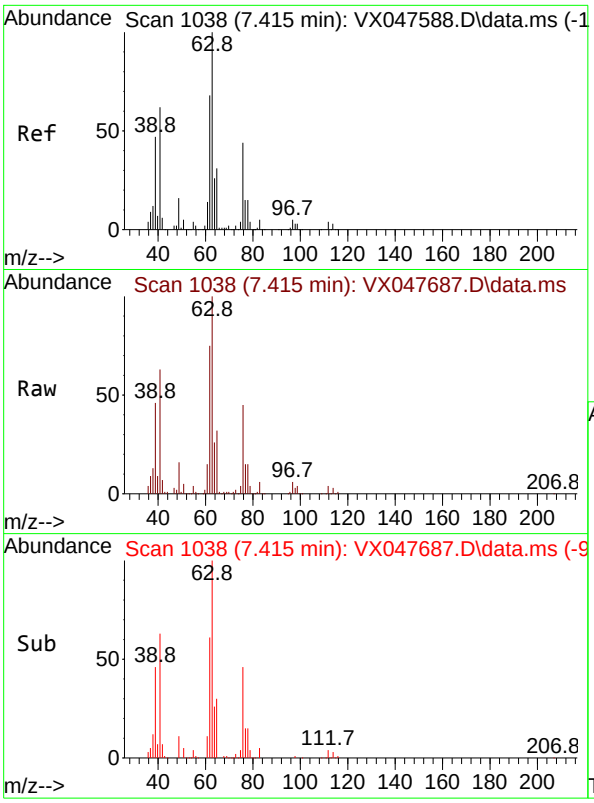


#44
Trichloroethene
Concen: 56.204 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:130 Resp: 112580

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	210.8



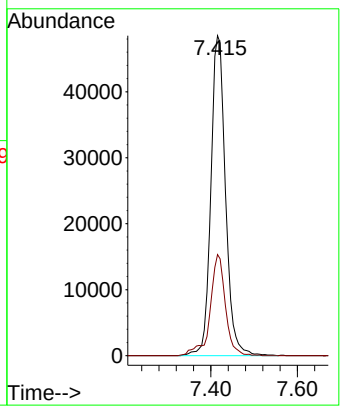


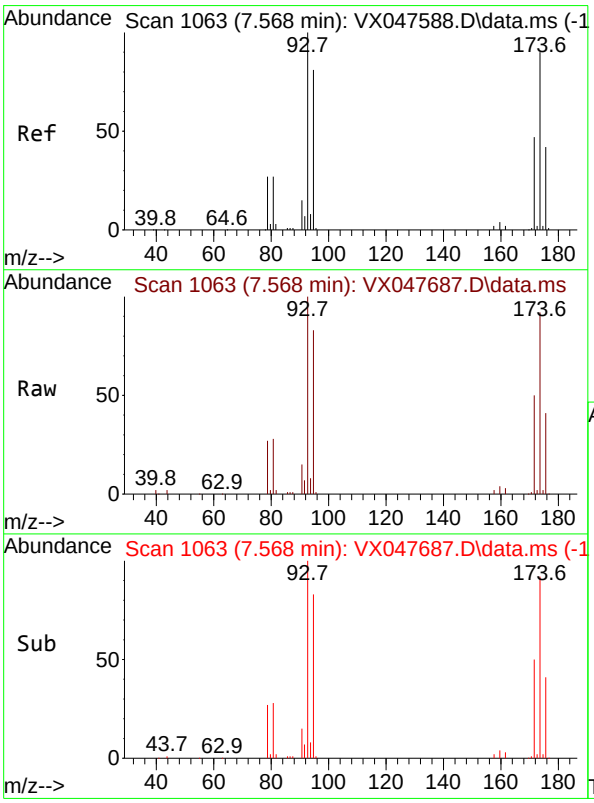
#45
1,2-Dichloropropane
Concen: 53.755 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 114044

Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.7	37.1

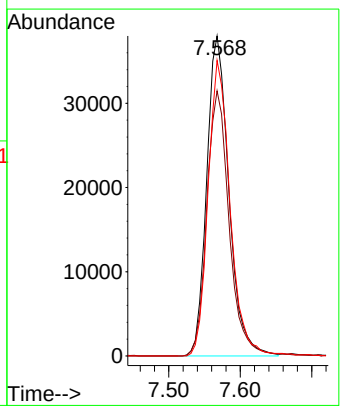


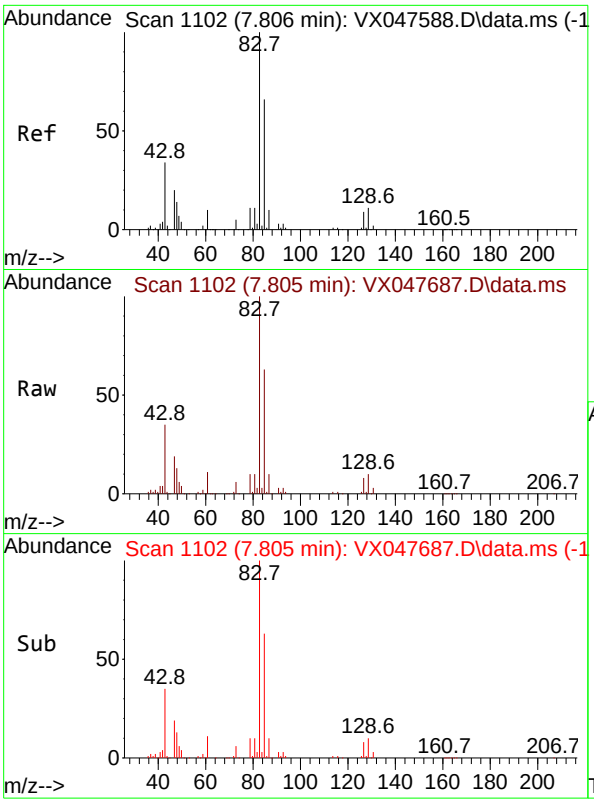


#46
Dibromomethane
Concen: 53.014 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 93 Resp: 81845

Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.0	97.6
174	91.9	71.6	107.4



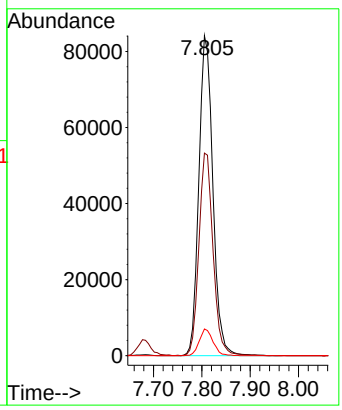


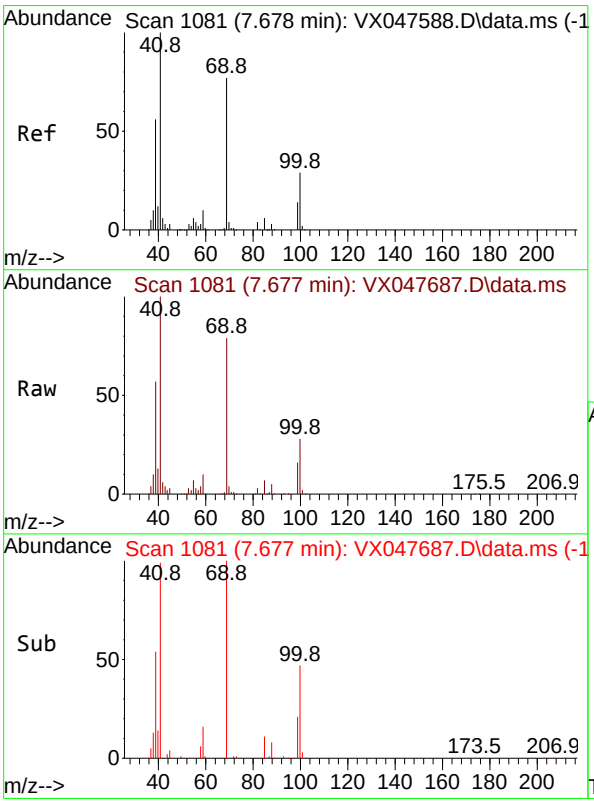
#47
Bromodichloromethane
Concen: 53.260 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 169676

Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.5	78.7
127	8.4	6.9	10.3

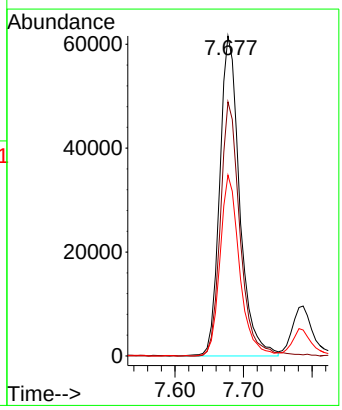


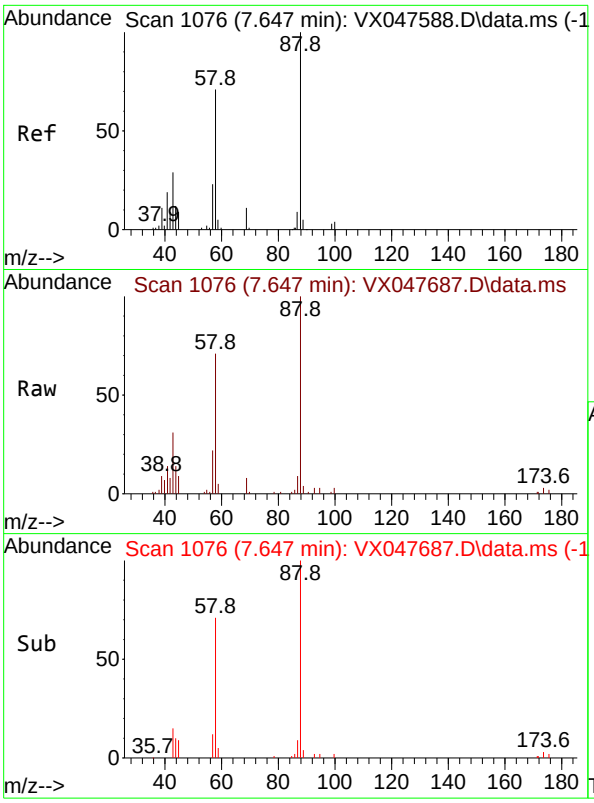


#48
Methyl methacrylate
Concen: 52.004 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 41 Resp: 124085

Ion	Ratio	Lower	Upper
41	100		
69	78.2	61.4	92.2
39	55.3	45.8	68.6



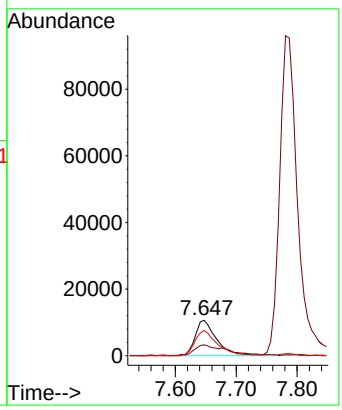


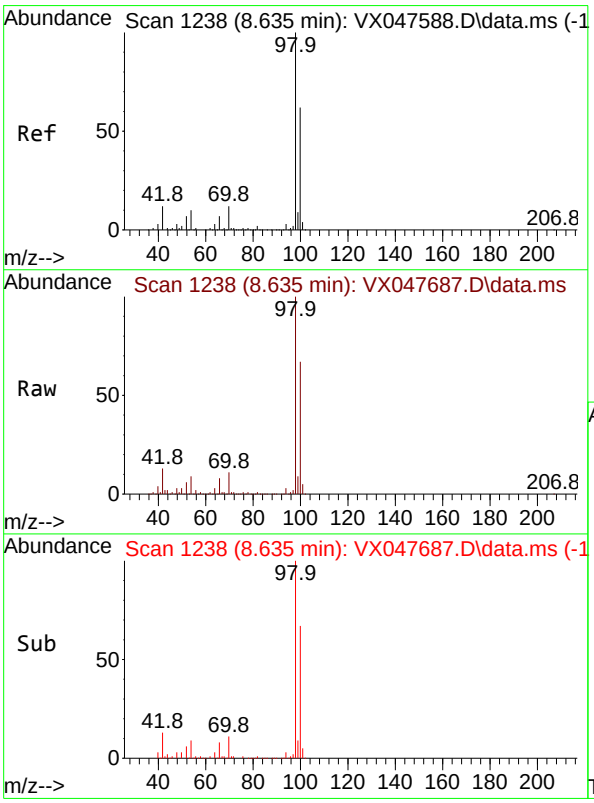
#49
1,4-Dioxane
Concen: 1102.850 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 26594

Ion	Ratio	Lower	Upper
88	100		
43	42.3	30.2	45.2
58	74.2	59.5	89.3

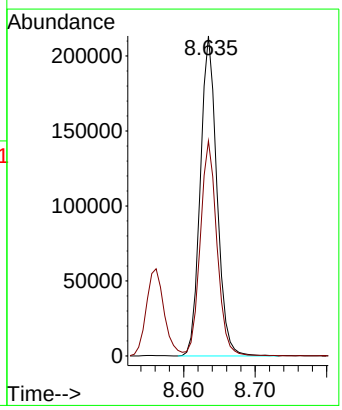


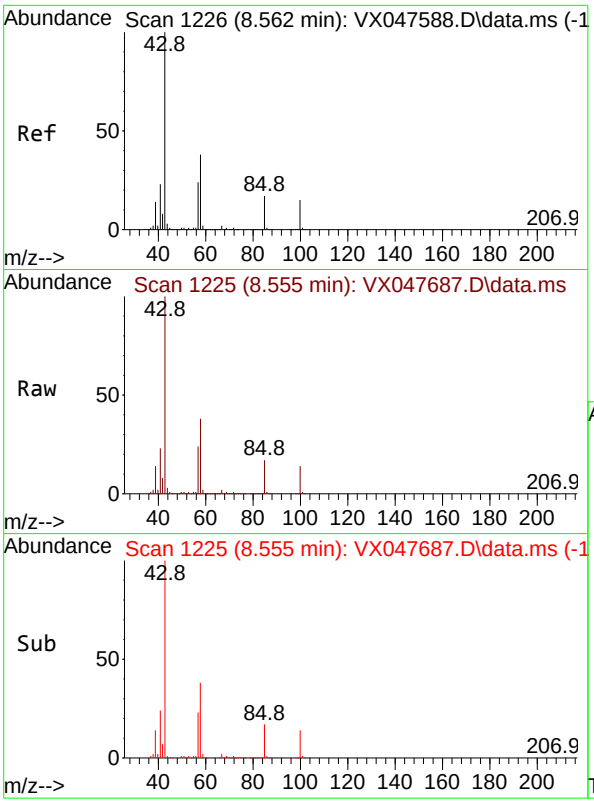


#50
Toluene-d8
Concen: 53.308 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 98 Resp: 344346

Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.0	79.4



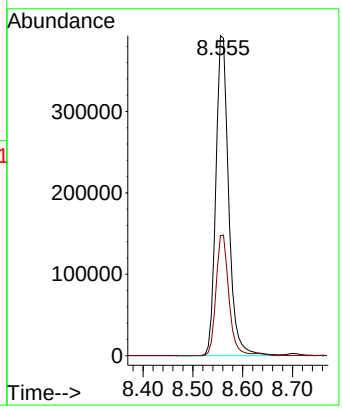


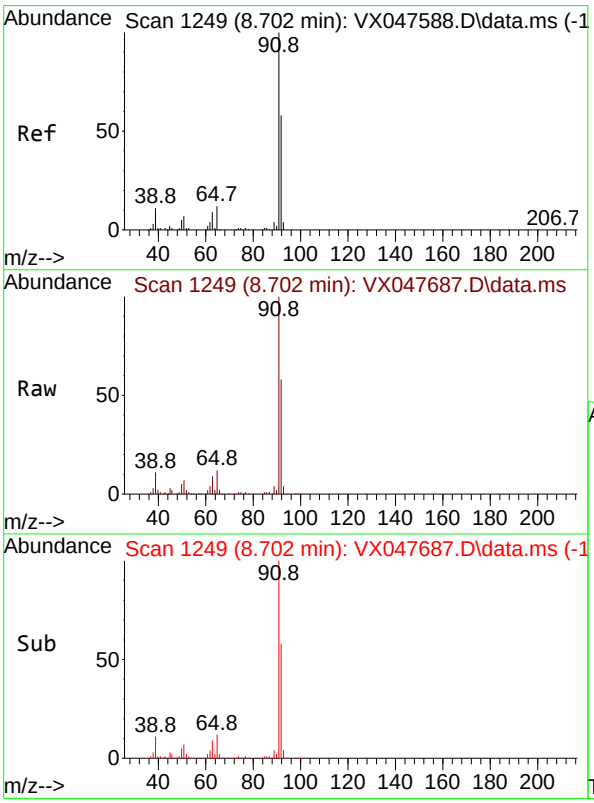
#51
4-Methyl-2-Pentanone
Concen: 264.517 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 702538

Ion	Ratio	Lower	Upper
43	100		
58	37.6	30.3	45.5

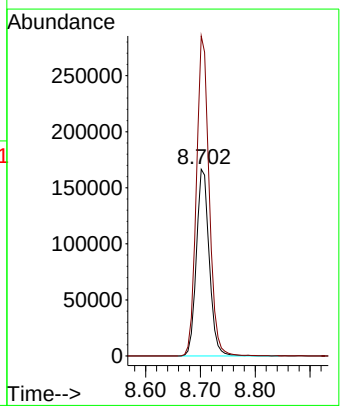


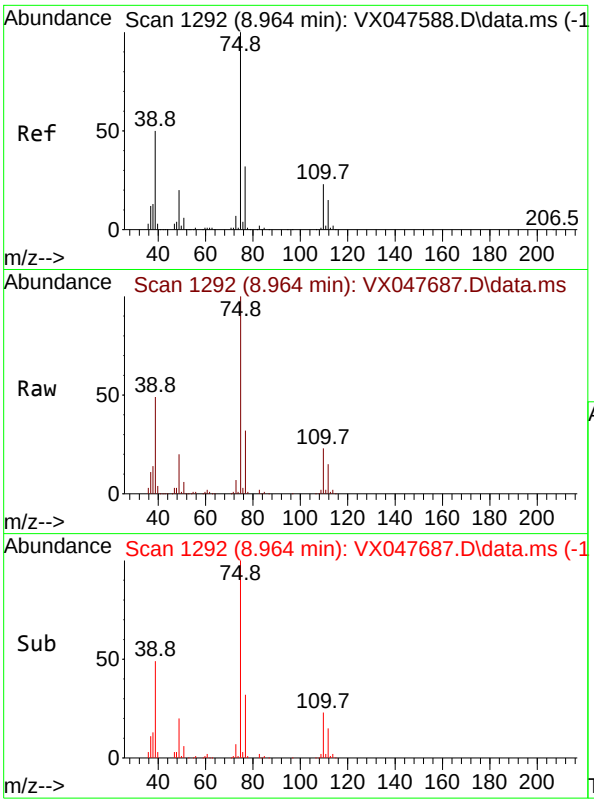


#52
Toluene
Concen: 53.368 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 92 Resp: 272421

Ion	Ratio	Lower	Upper
92	100		
91	169.4	137.1	205.7



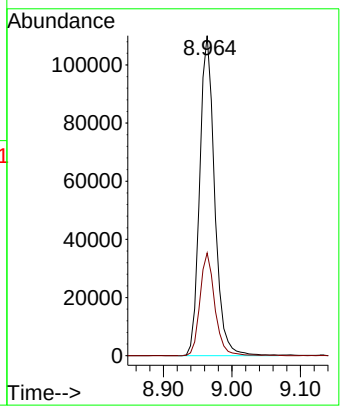


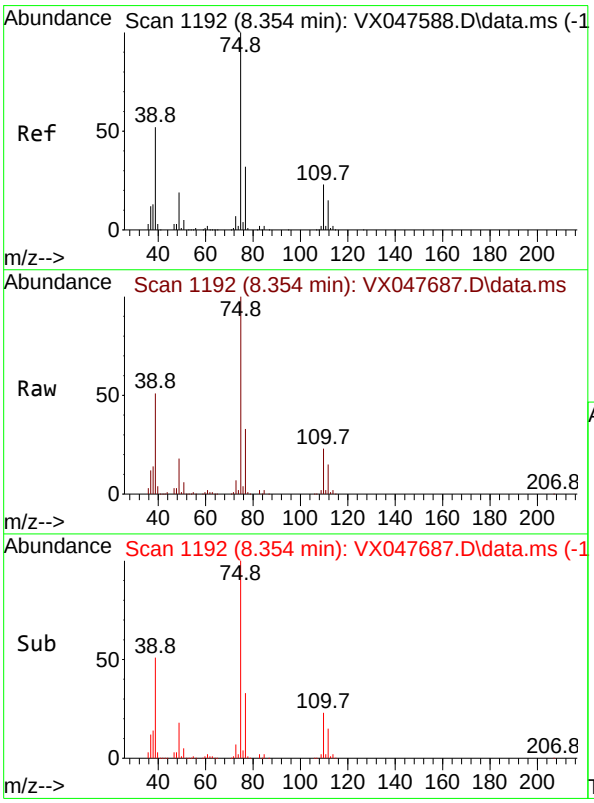
#53
t-1,3-Dichloropropene
Concen: 51.527 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 167442

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.4	38.2

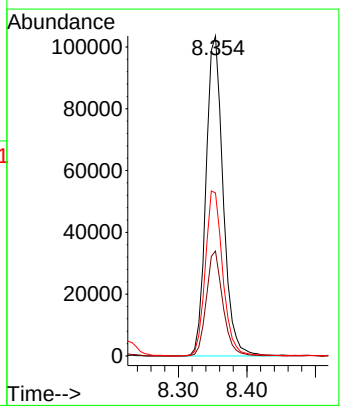


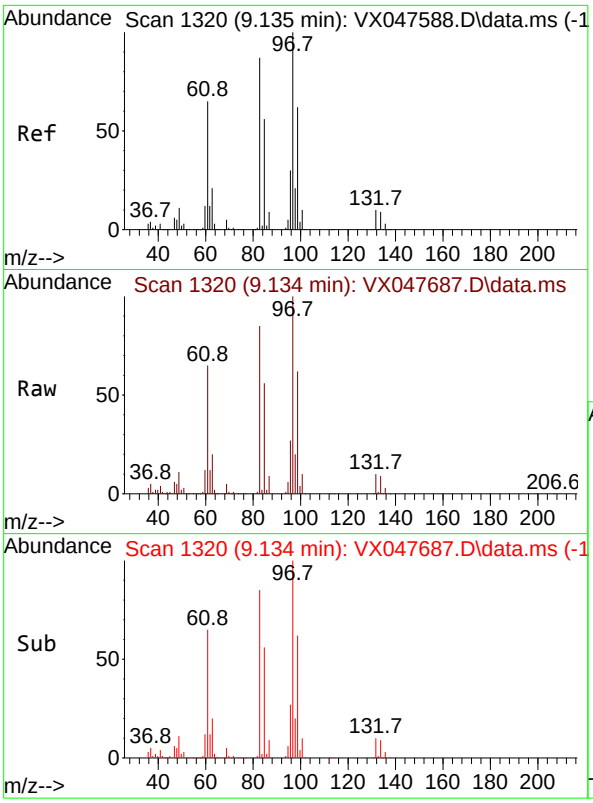


#54
cis-1,3-Dichloropropene
Concen: 51.815 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 179970

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.8	38.6
39	50.9	41.4	62.2



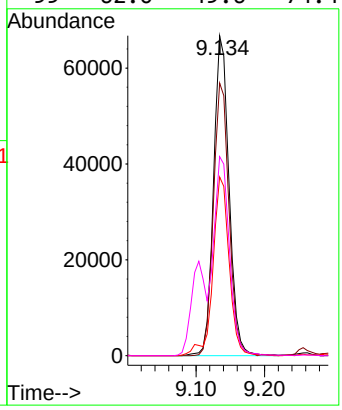


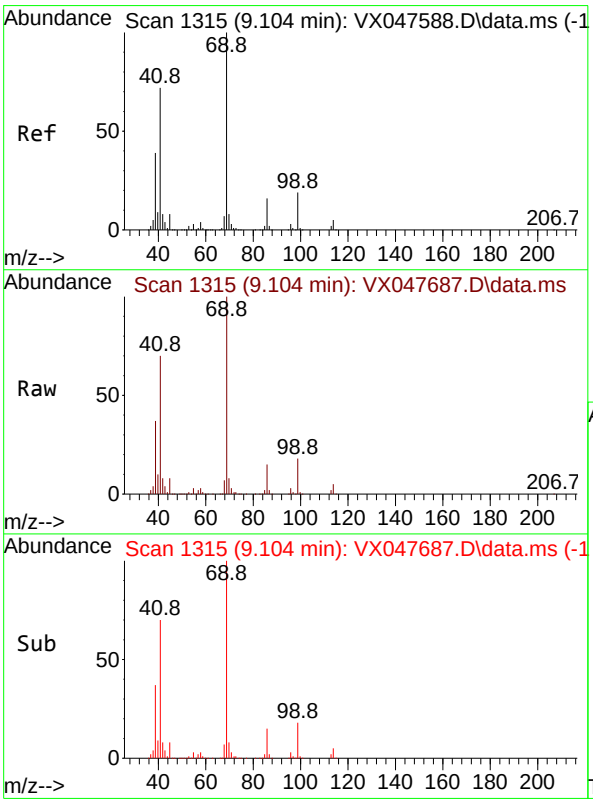
#55
1,1,2-Trichloroethane
Concen: 53.322 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 104952

Ion	Ratio	Lower	Upper
97	100		
83	85.2	69.6	104.4
85	55.9	45.0	67.6
99	62.0	49.6	74.4

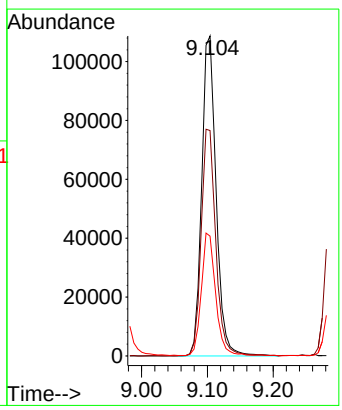


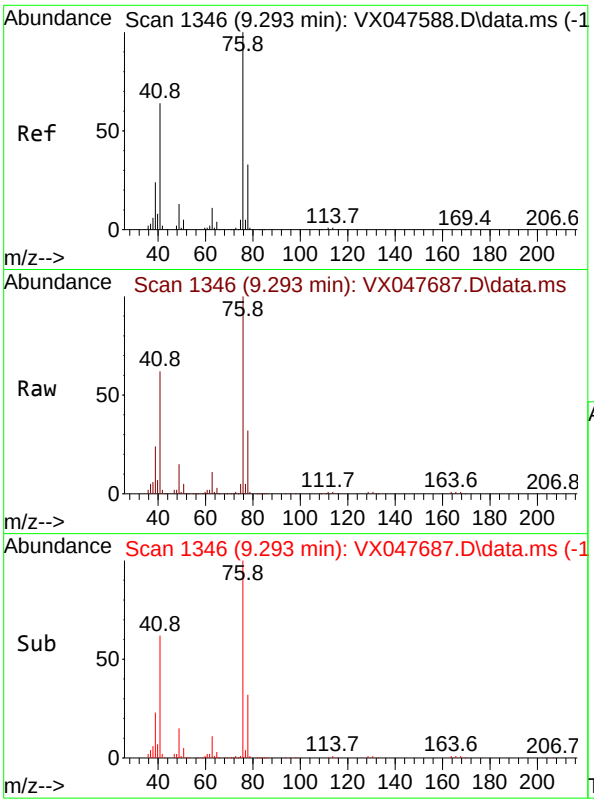


#56
Ethyl methacrylate
Concen: 53.586 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 69 Resp: 165642

Ion	Ratio	Lower	Upper
69	100		
41	71.6	58.6	87.8
39	38.5	31.5	47.3



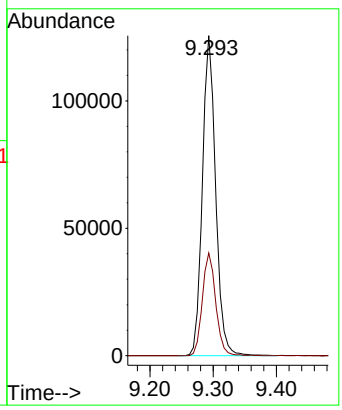


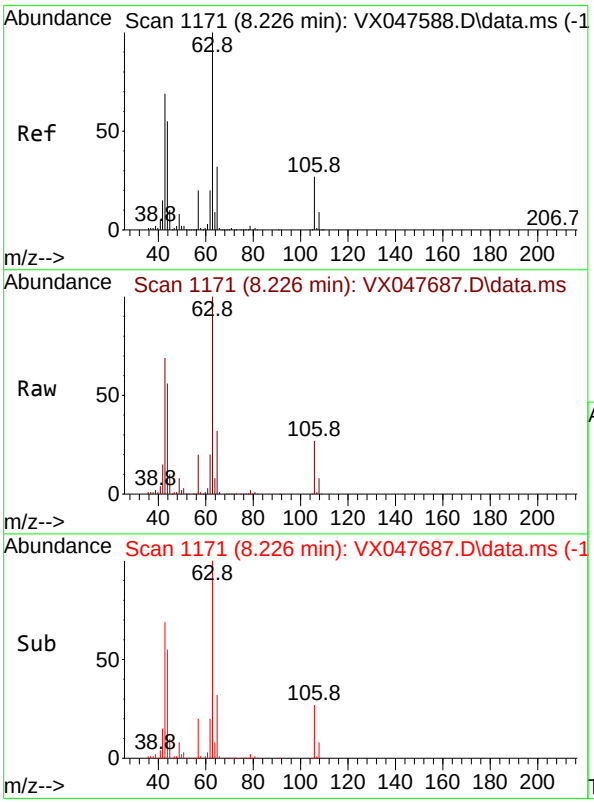
#57
1,3-Dichloropropane
Concen: 54.129 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 183018

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4

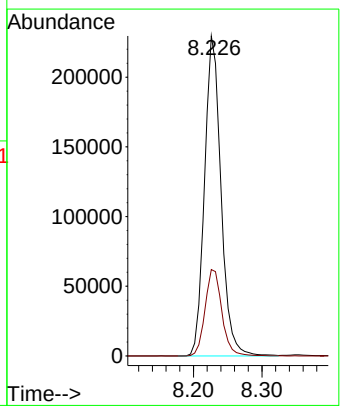


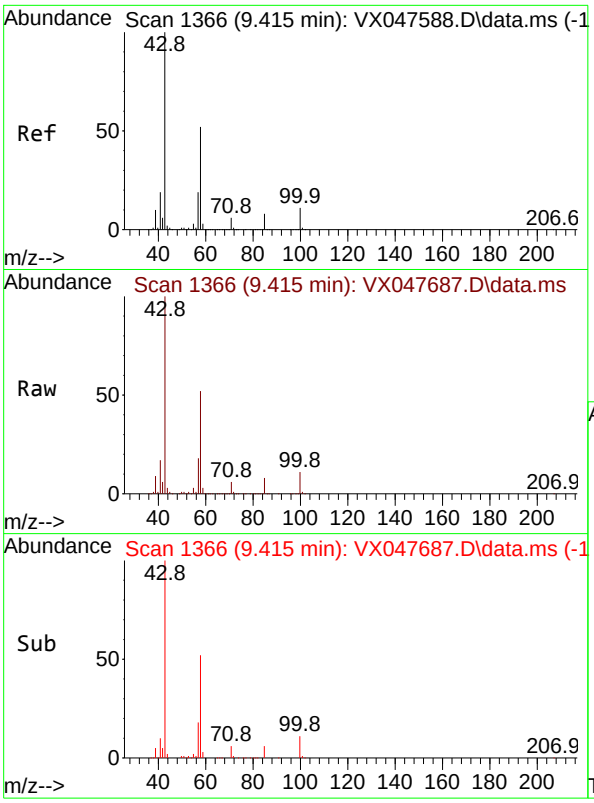


#58
2-Chloroethyl Vinyl ether
Concen: 259.650 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 63 Resp: 384468

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9



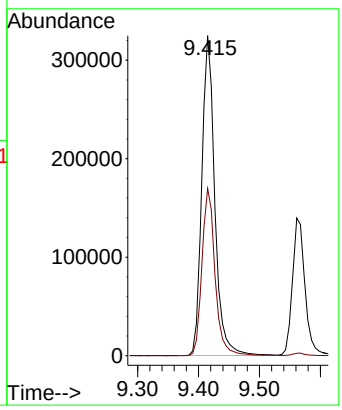


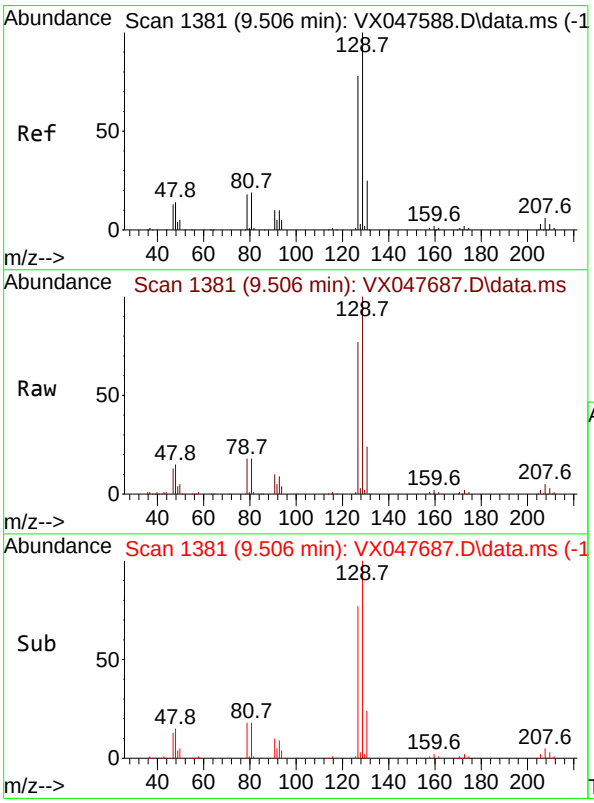
#59
2-Hexanone
Concen: 252.510 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 481662

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.1	78.2

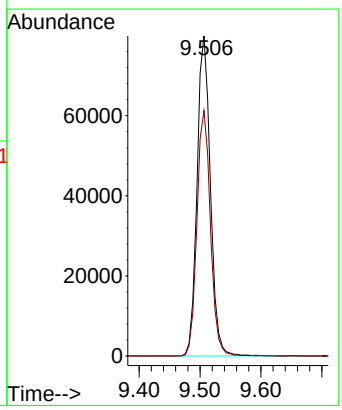


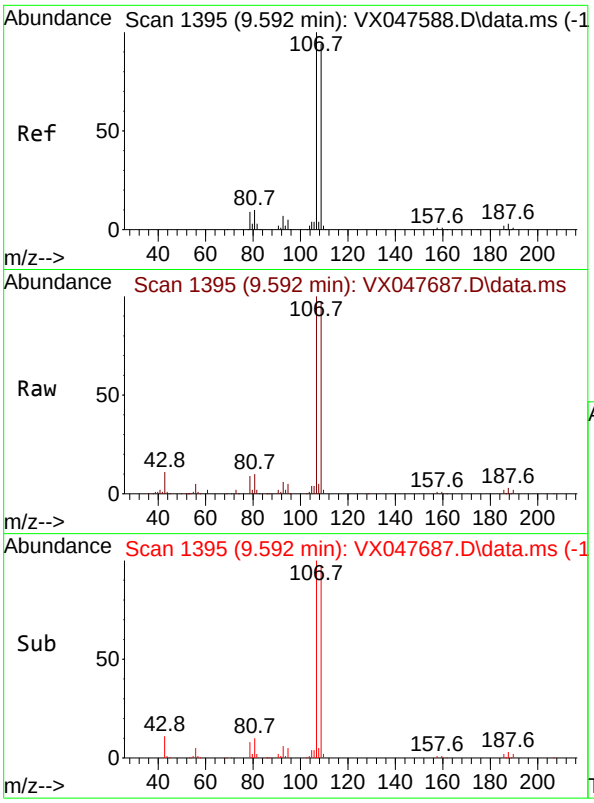


#60
Dibromochloromethane
Concen: 53.465 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:129 Resp: 121253

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.4	115.2



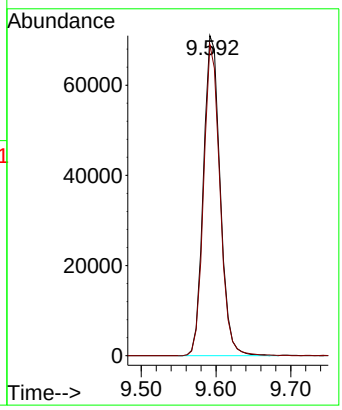


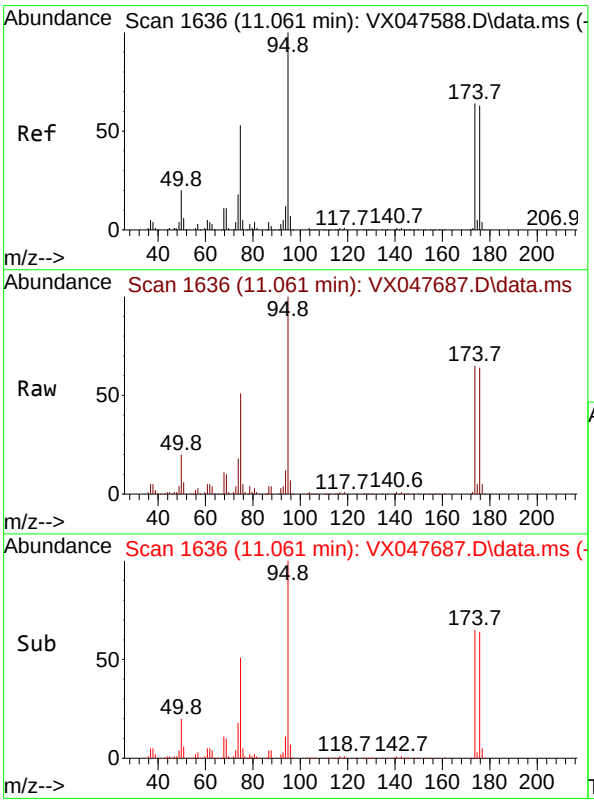
#61
1,2-Dibromoethane
Concen: 54.996 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 110255

Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.3	112.9

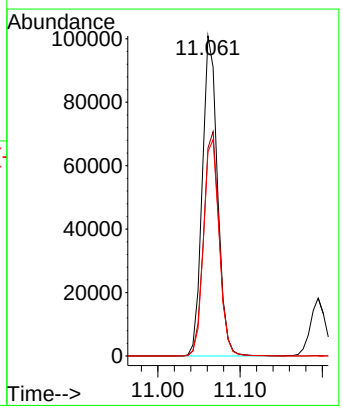


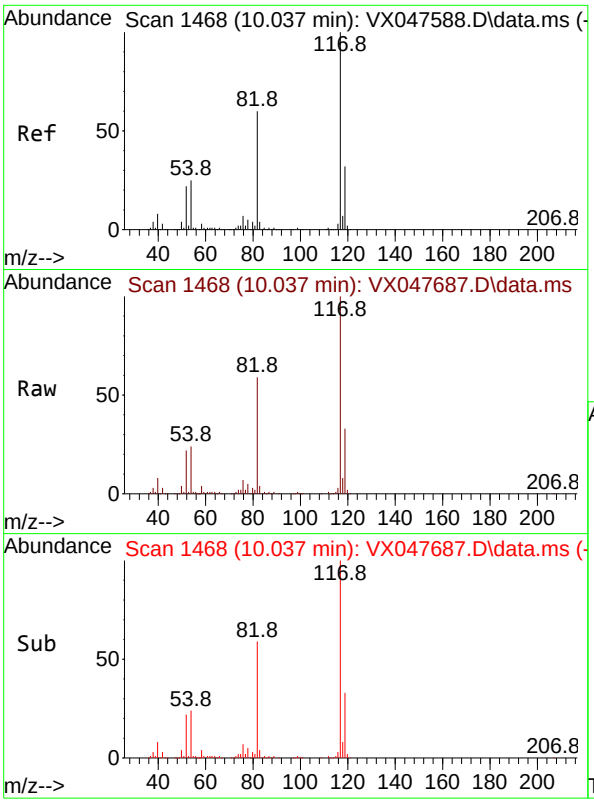


#62
4-Bromofluorobenzene
Concen: 52.822 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 95 Resp: 129494

Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	141.6
176	69.5	0.0	138.4



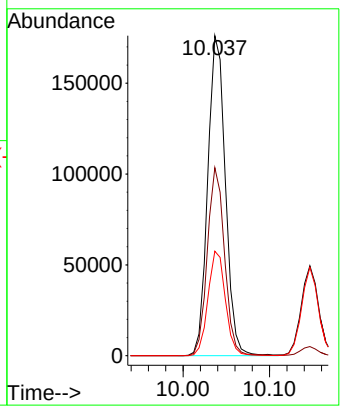


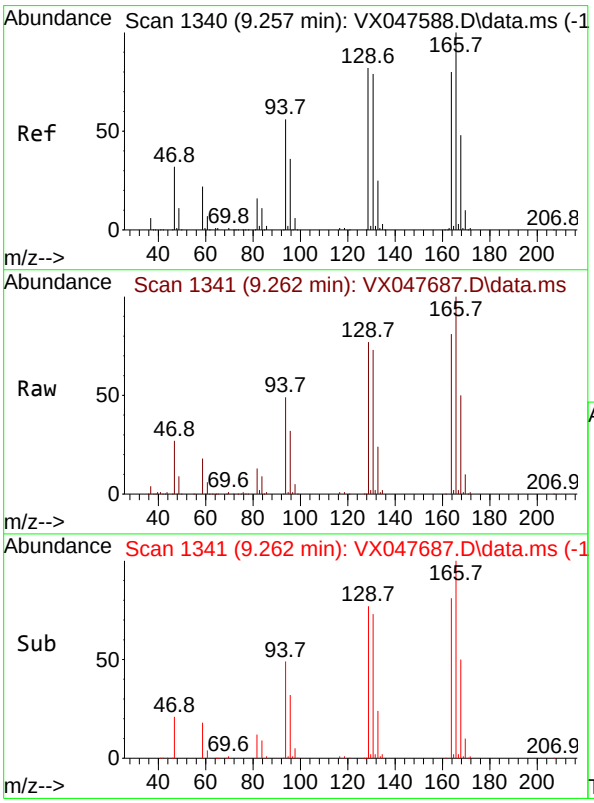
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 248998

Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.8	71.6
119	32.7	25.2	37.8

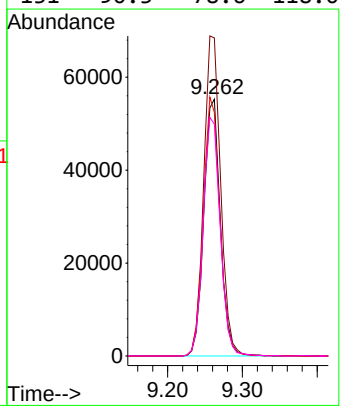


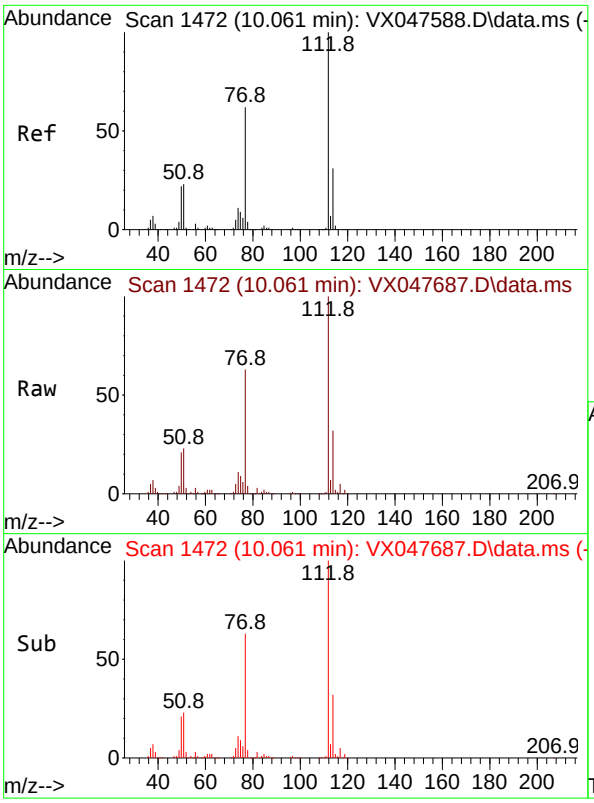


#64
Tetrachloroethene
Concen: 52.205 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:164 Resp: 84740

Ion	Ratio	Lower	Upper
164	100		
166	123.9	100.2	150.2
129	94.9	81.8	122.6
131	90.3	78.6	118.0



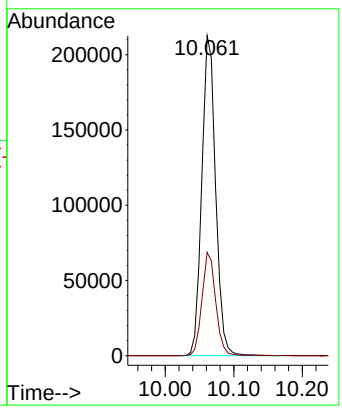


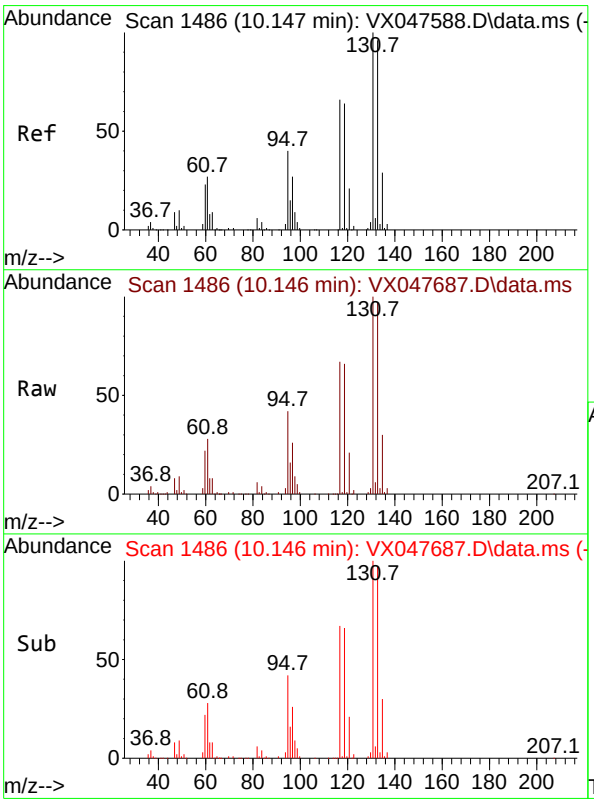
#65
Chlorobenzene
Concen: 52.793 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 298639

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.1	37.7

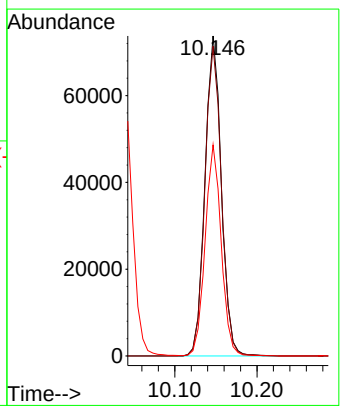


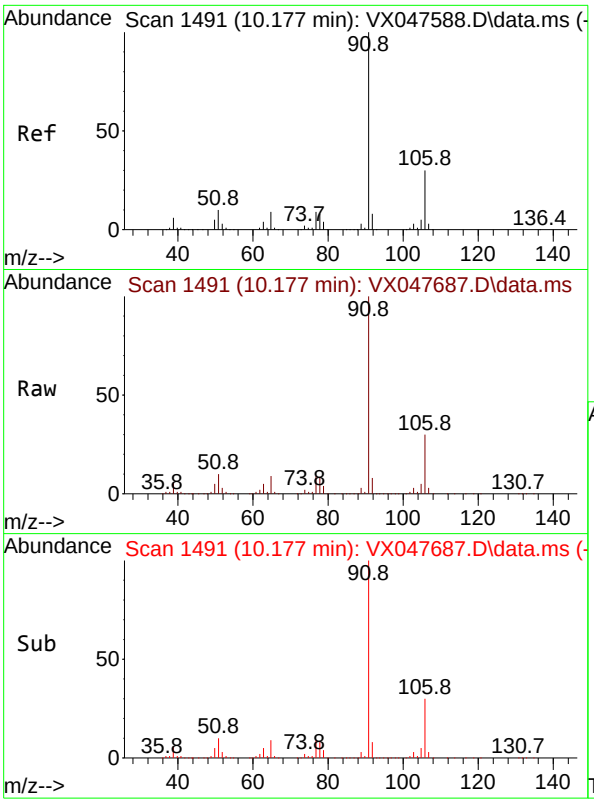


#66
1,1,1,2-Tetrachloroethane
Concen: 52.201 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:131 Resp: 101896

Ion	Ratio	Lower	Upper
131	100		
133	98.0	47.3	142.0
119	65.0	32.0	96.0



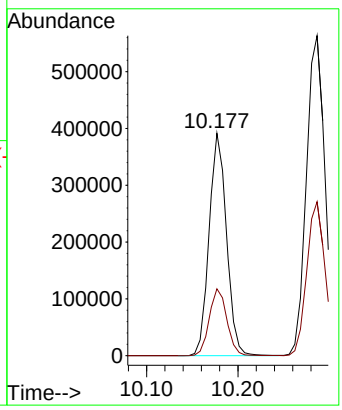


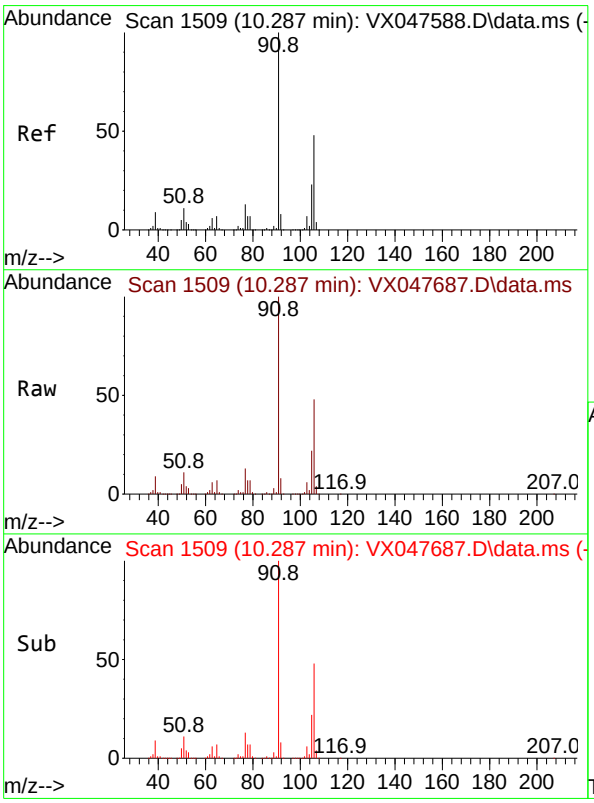
#67
Ethyl Benzene
Concen: 52.982 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 517118

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.3	36.5

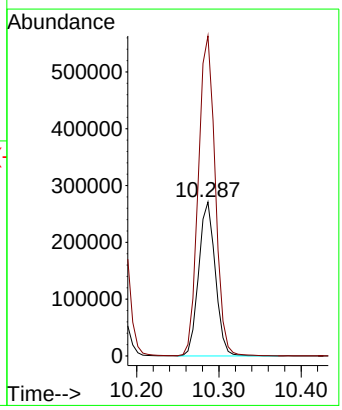


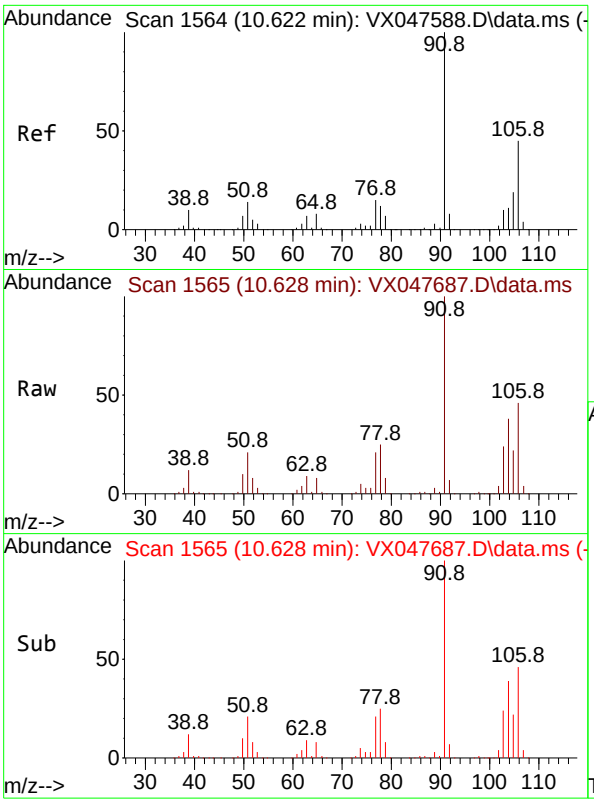


#68
m/p-Xylenes
Concen: 104.973 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:106 Resp: 381354

Ion	Ratio	Lower	Upper
106	100		
91	211.0	167.8	251.8



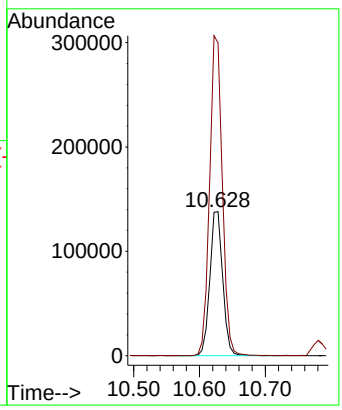


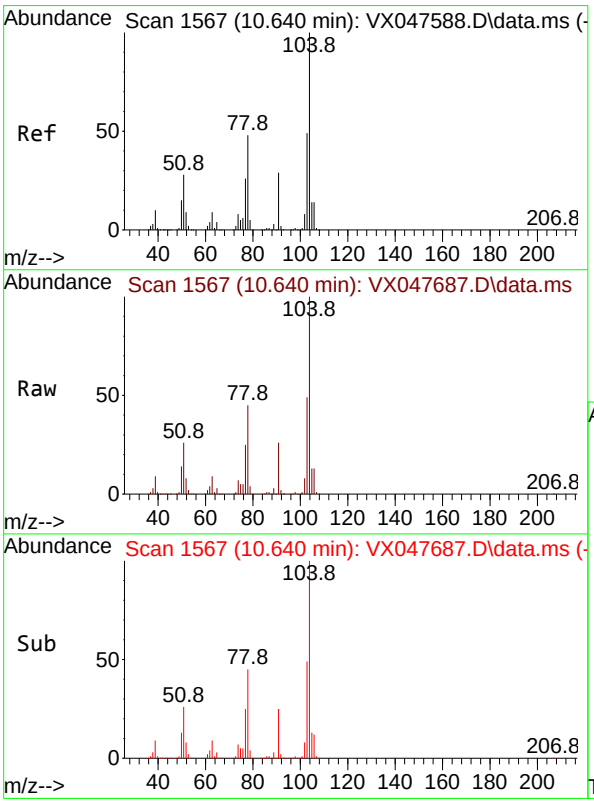
#69
o-Xylene
Concen: 53.332 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 187399

Ion	Ratio	Lower	Upper
106	100		
91	220.5	111.1	333.4

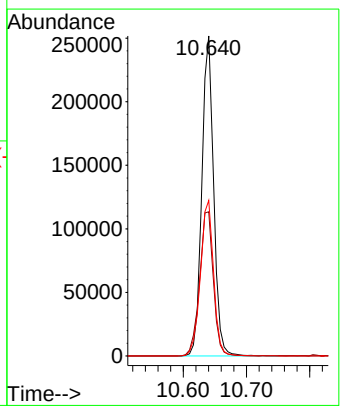


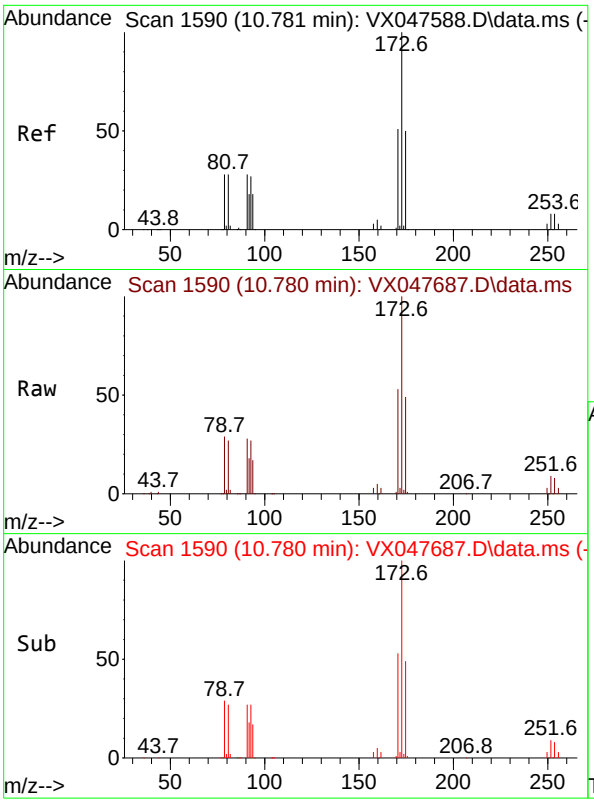


#70
Styrene
Concen: 53.259 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:104 Resp: 327913

Ion	Ratio	Lower	Upper
104	100		
78	52.5	43.1	64.7
103	53.9	43.1	64.7



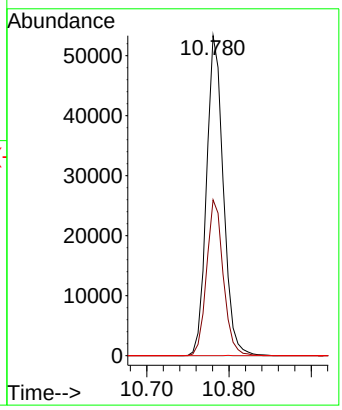


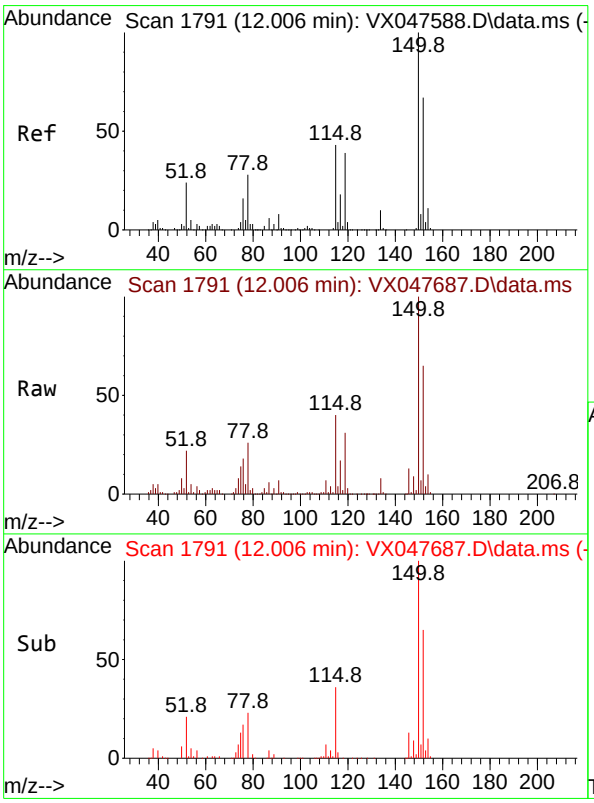
#71
Bromoform
Concen: 51.882 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 75620

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.9	74.6
254	0.0	0.1	0.1#

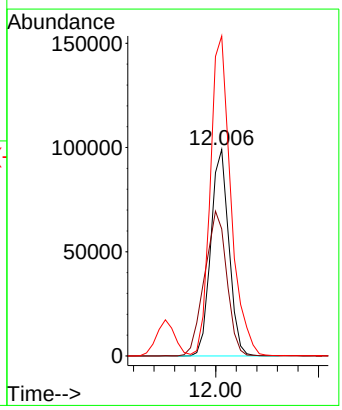


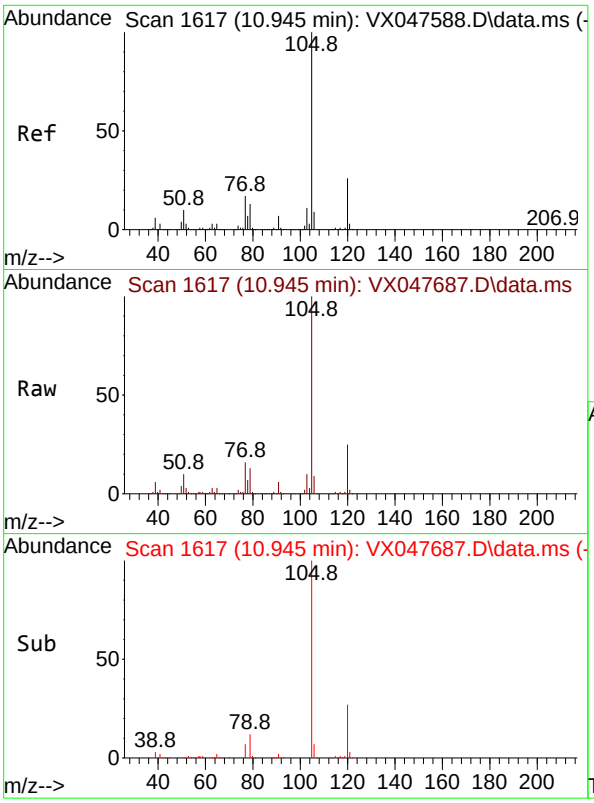


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:152 Resp: 120684

Ion	Ratio	Lower	Upper
152	100		
115	86.4	44.9	134.5
150	175.9	0.0	352.0



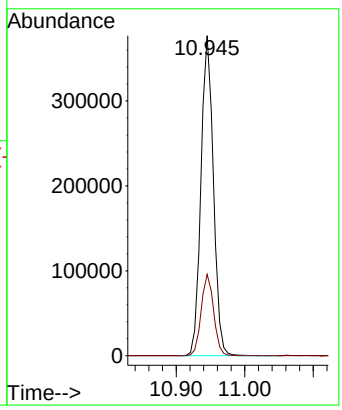


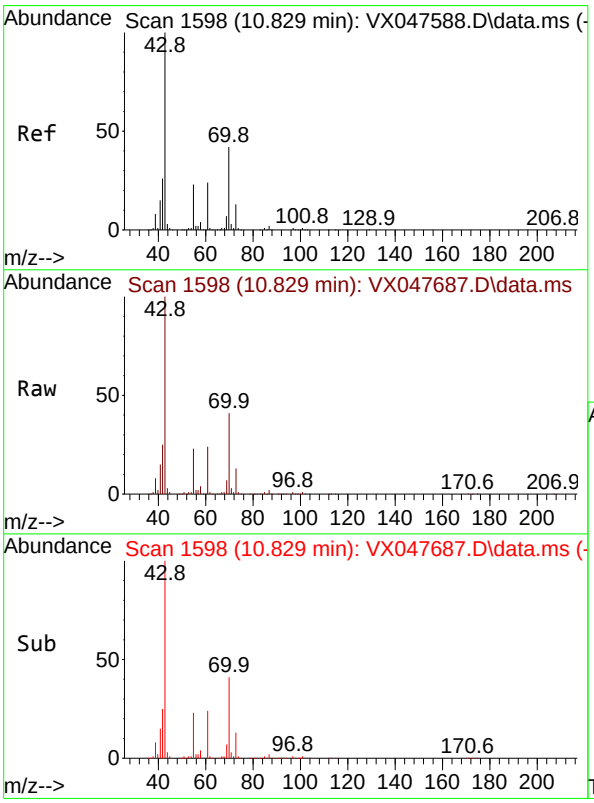
#73
Isopropylbenzene
Concen: 51.835 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 475596

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.4

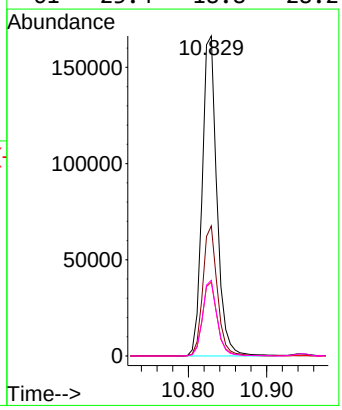


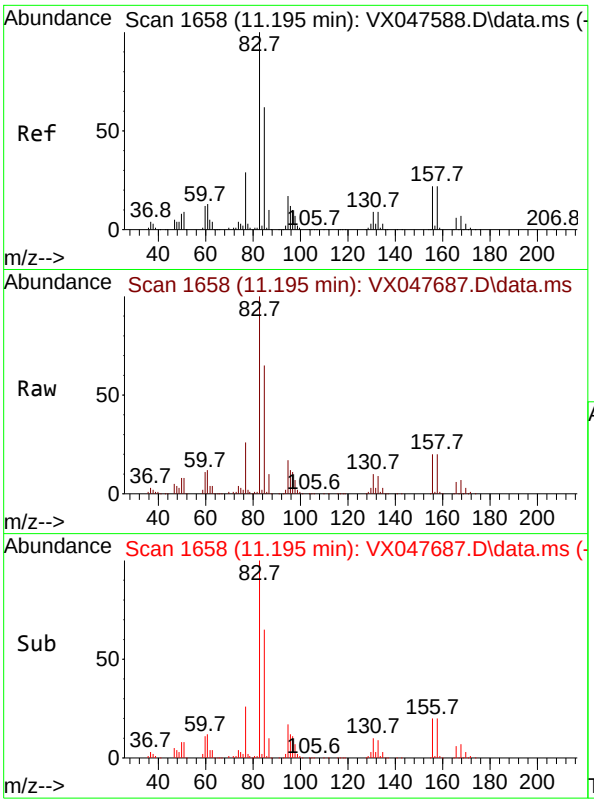


#74
N-amyl acetate
Concen: 51.785 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 43 Resp: 216669

Ion	Ratio	Lower	Upper
43	100		
70	40.2	32.0	48.0
55	23.3	18.9	28.3
61	23.4	18.8	28.2



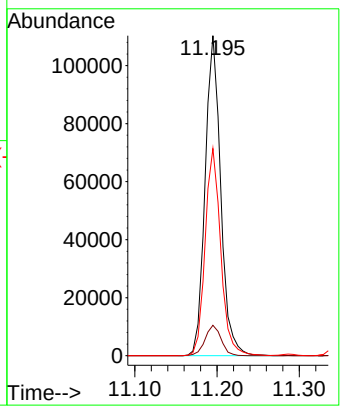


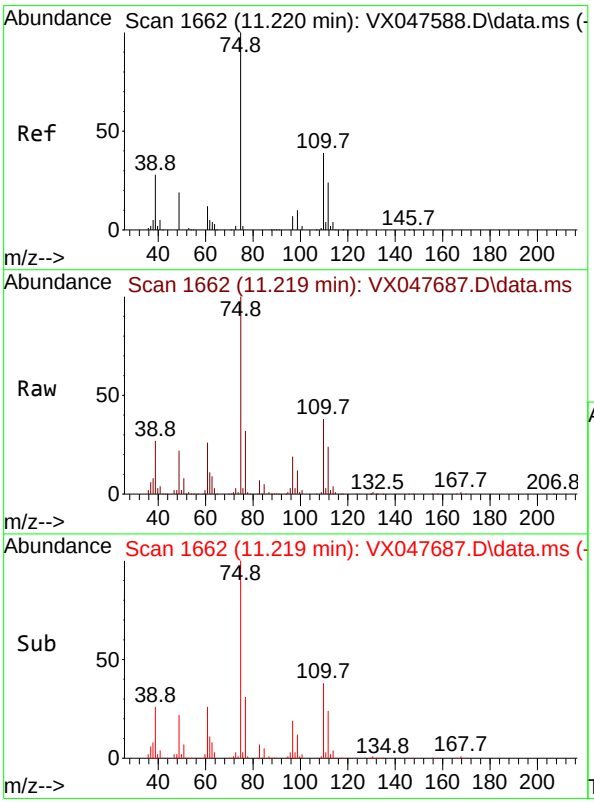
#75
1,1,2,2-Tetrachloroethane
Concen: 52.421 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 145518

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	64.8	31.6	95.0

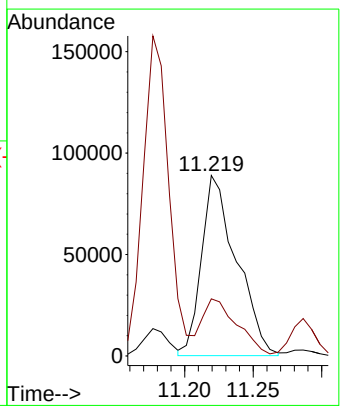


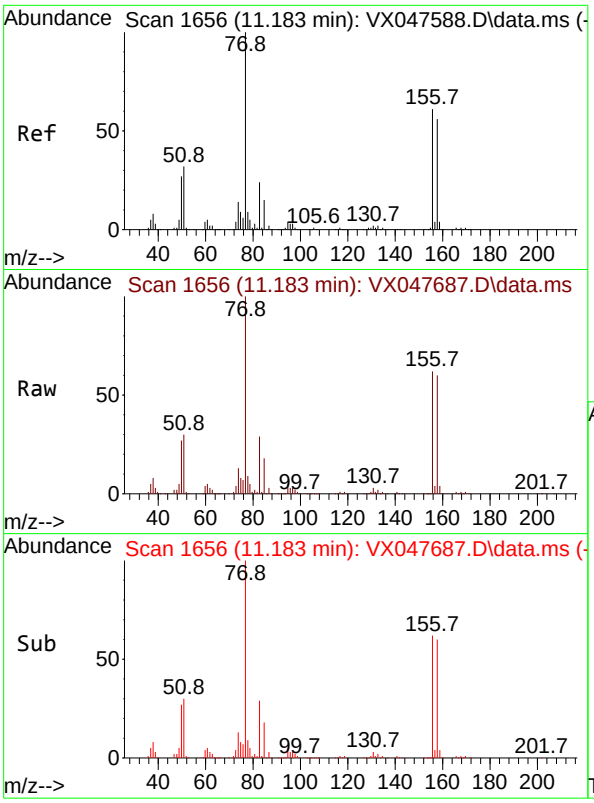


#76
1,2,3-Trichloropropane
Concen: 64.800 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 158337

Ion	Ratio	Lower	Upper
75	100		
77	30.9	18.8	56.4



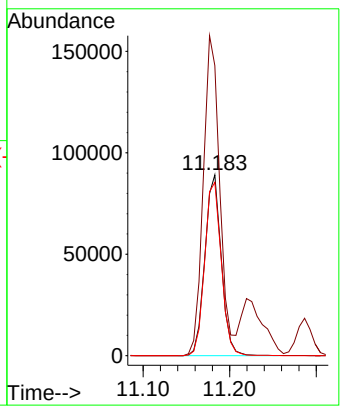


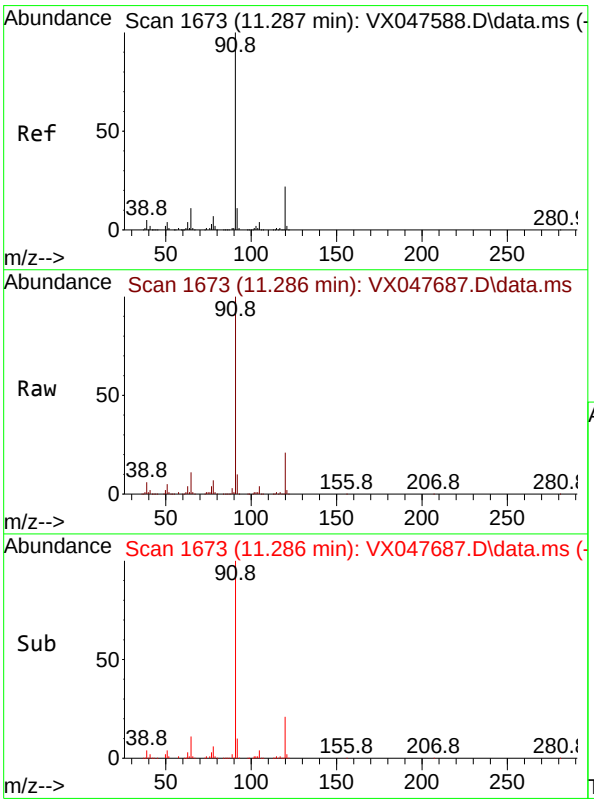
#77
Bromobenzene
Concen: 51.947 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 117390

Ion	Ratio	Lower	Upper
156	100		
77	178.3	89.7	269.1
158	97.4	47.9	143.6

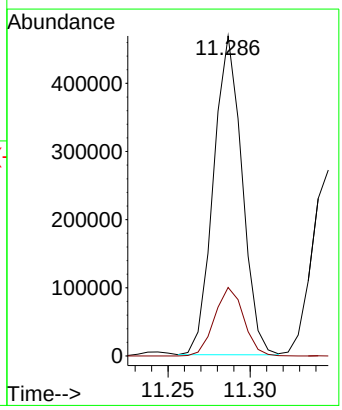


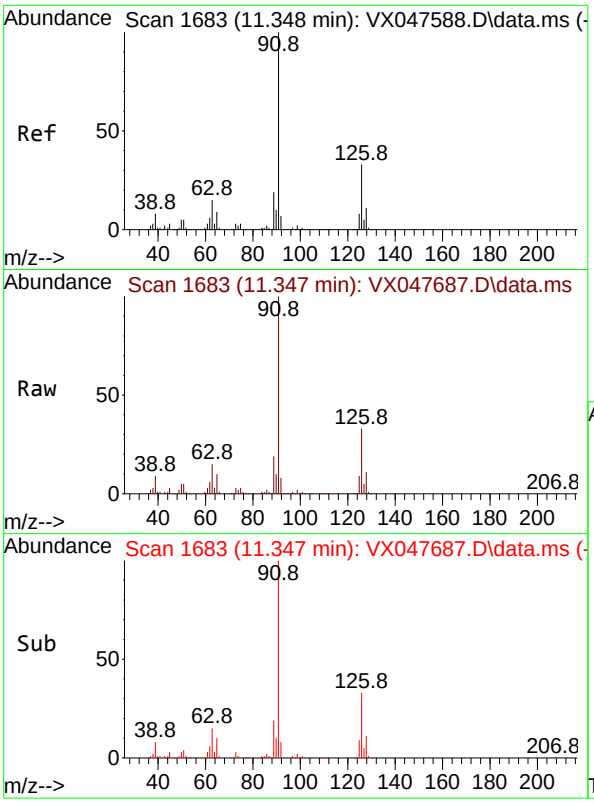


#78
n-propylbenzene
Concen: 52.147 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 91 Resp: 565595

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.1



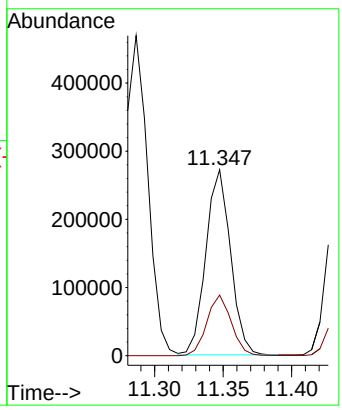


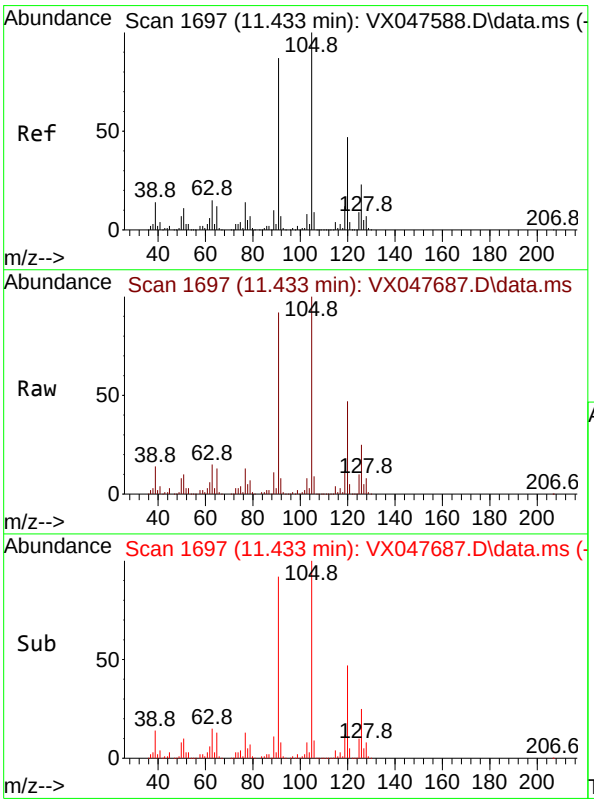
#79
2-Chlorotoluene
Concen: 51.361 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 341195

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3

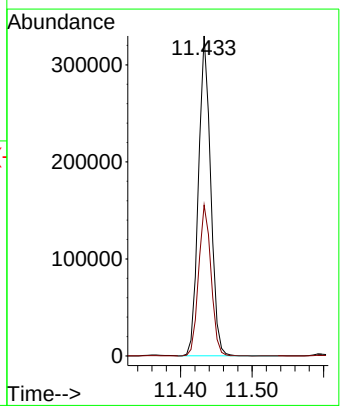


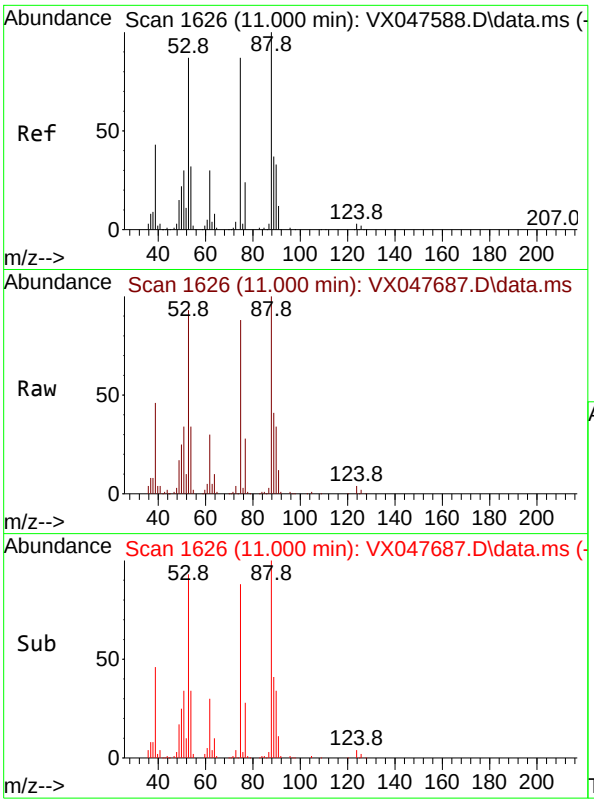


#80
1,3,5-Trimethylbenzene
Concen: 51.564 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:105 Resp: 388702

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.6	70.8



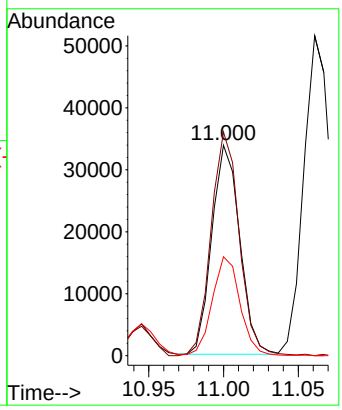


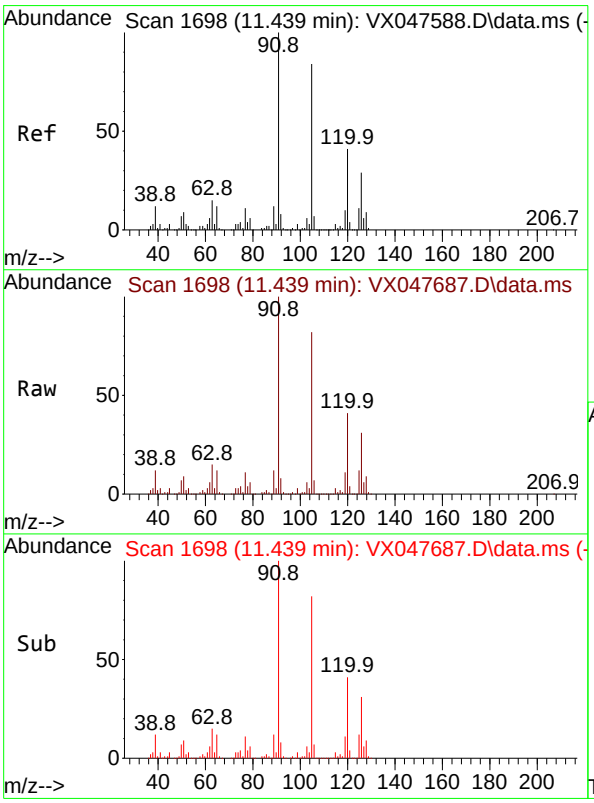
#81
trans-1,4-Dichloro-2-butene
Concen: 45.792 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 43877

Ion	Ratio	Lower	Upper
75	100		
53	108.1	83.4	125.2
89	47.0	36.3	54.5

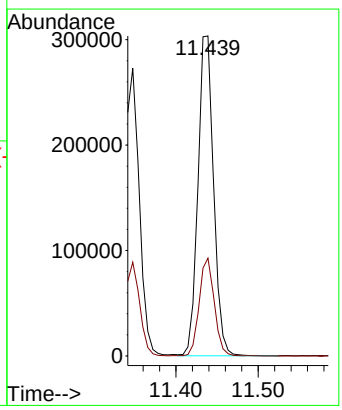


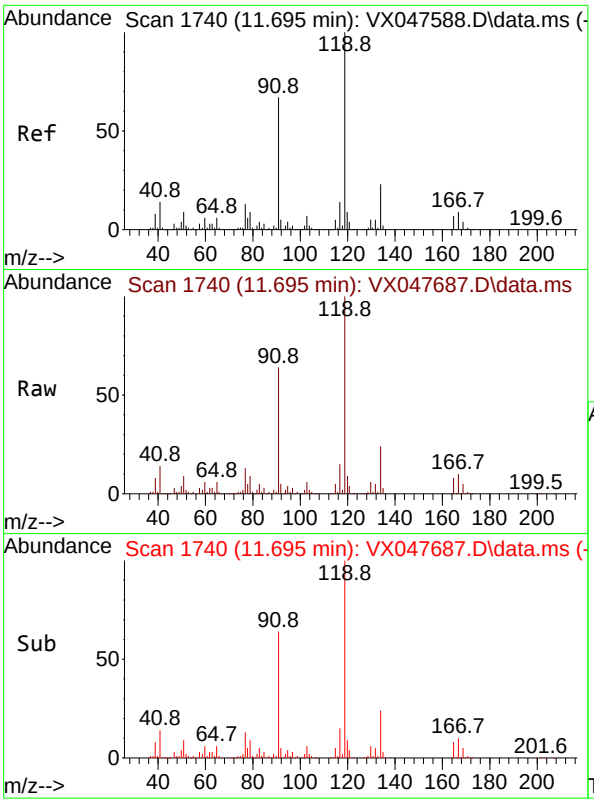


#82
4-Chlorotoluene
Concen: 51.132 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 91 Resp: 401172

Ion	Ratio	Lower	Upper
91	100		
126	29.5	14.2	42.6



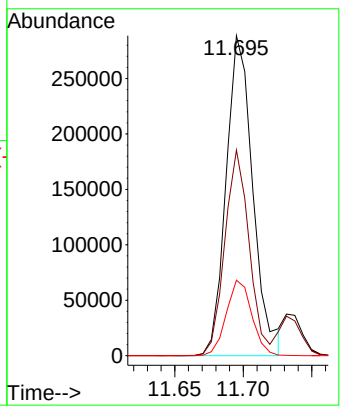


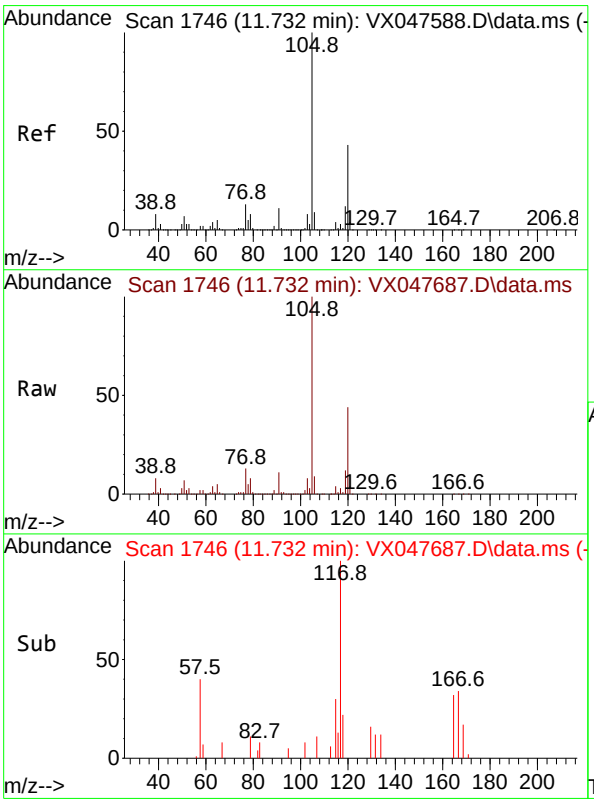
#83
tert-Butylbenzene
Concen: 50.797 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 391982

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.6	11.0	33.0

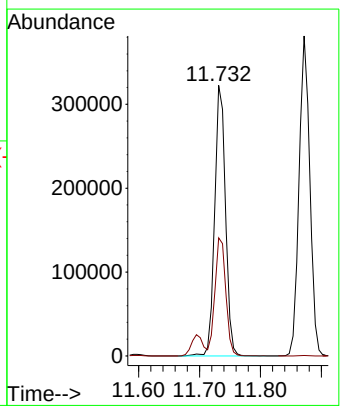


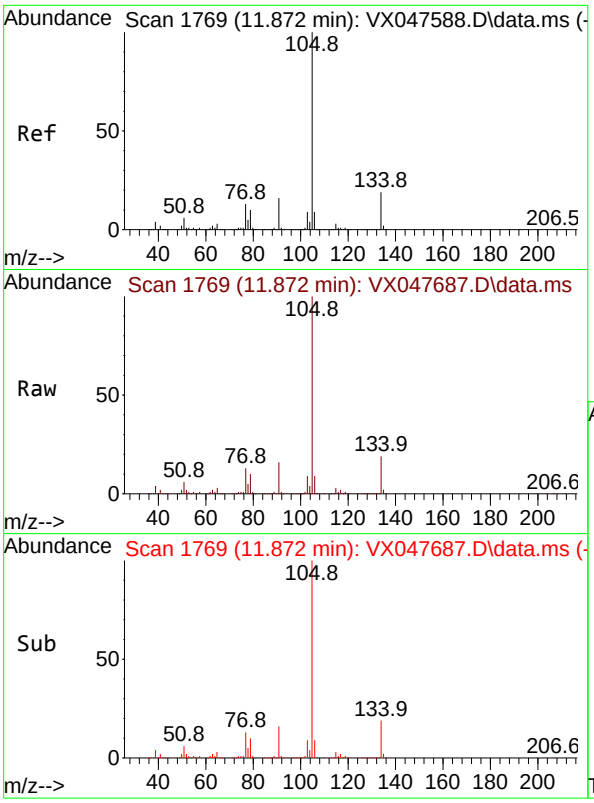


#84
1,2,4-Trimethylbenzene
Concen: 52.011 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:105 Resp: 397498

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1



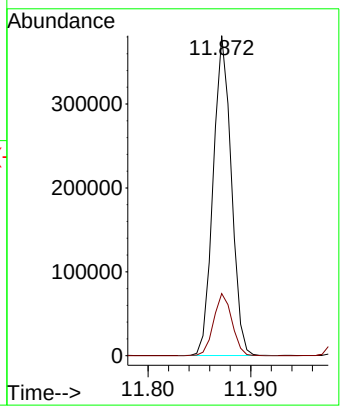


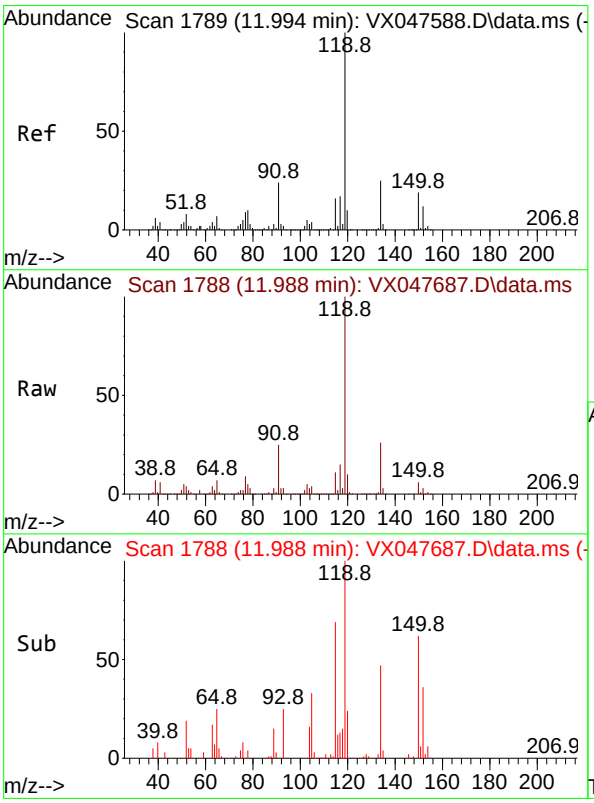
#85
sec-Butylbenzene
Concen: 51.055 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 467967

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5

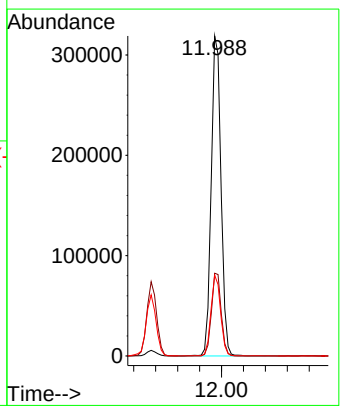


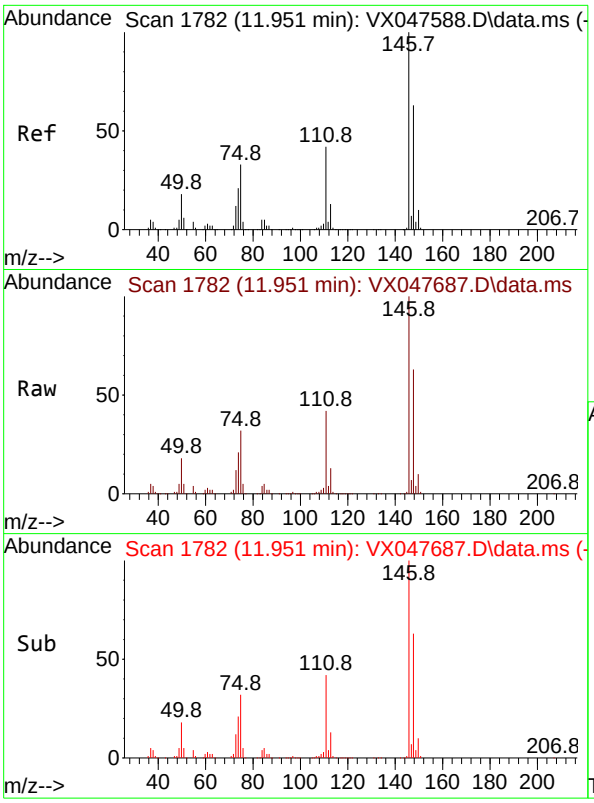


#86
p-Isopropyltoluene
Concen: 50.599 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:119 Resp: 392640

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	24.8	12.6	37.6



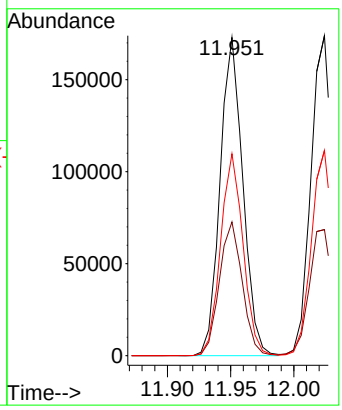


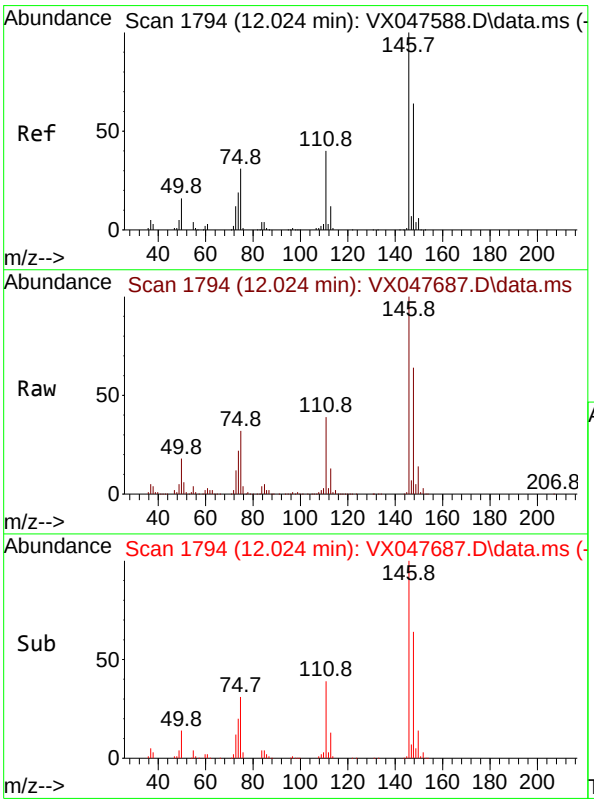
#87
1,3-Dichlorobenzene
Concen: 51.456 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 215979

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.5	64.5
148	62.8	32.0	96.0

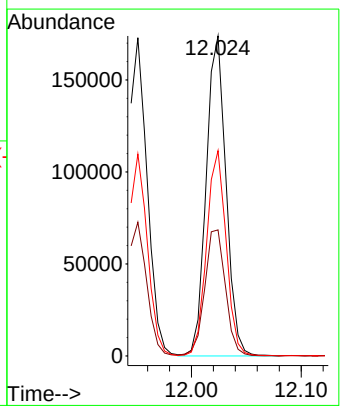


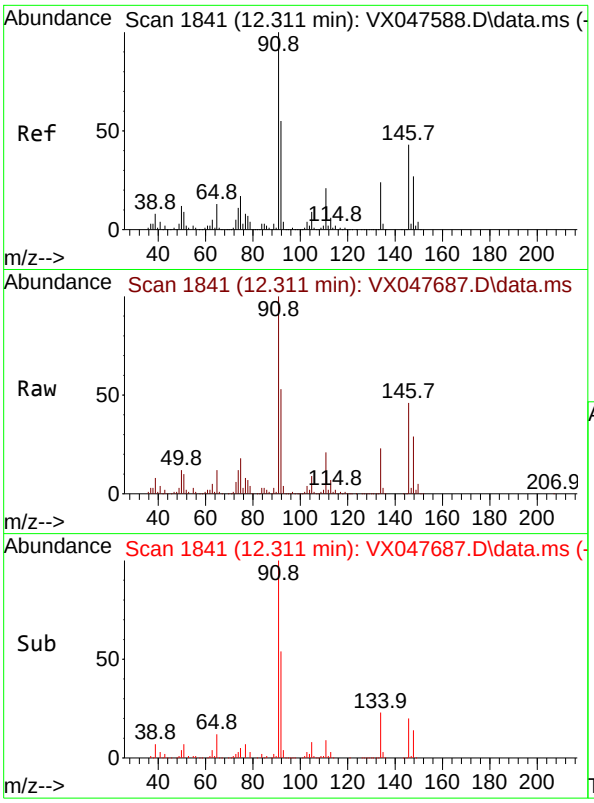


#88
1,4-Dichlorobenzene
Concen: 50.659 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:146 Resp: 218234

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.8	62.4
148	63.3	31.7	95.1



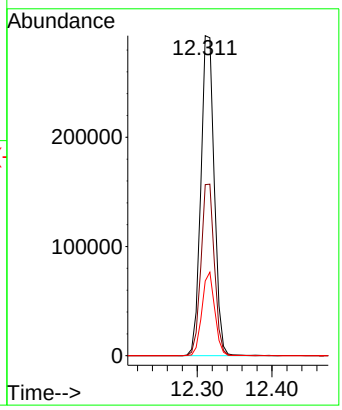


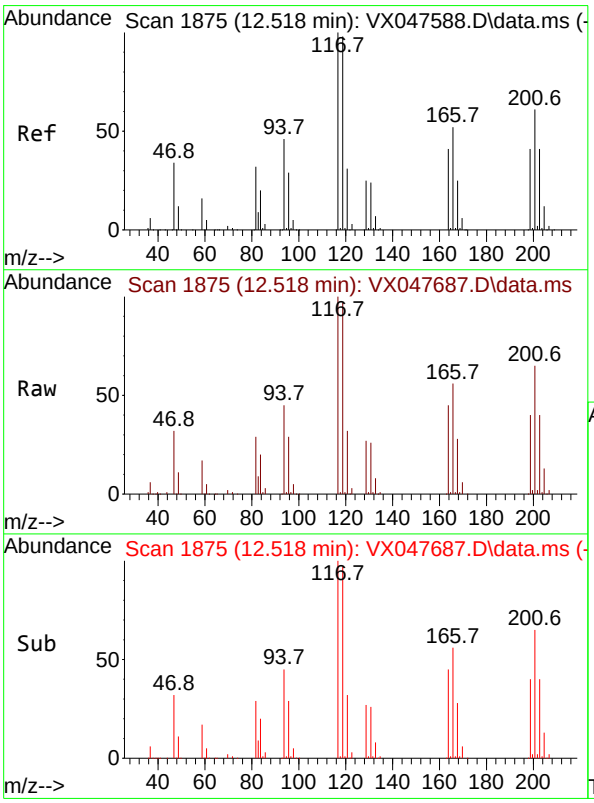
#89
n-Butylbenzene
Concen: 50.892 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 365418

Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.6	82.7
134	25.0	12.6	37.8

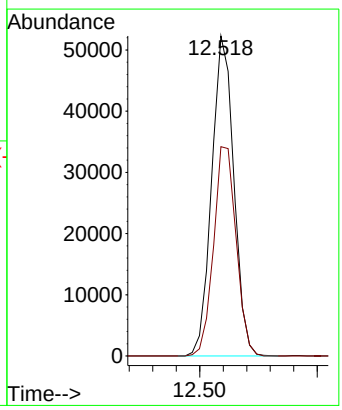


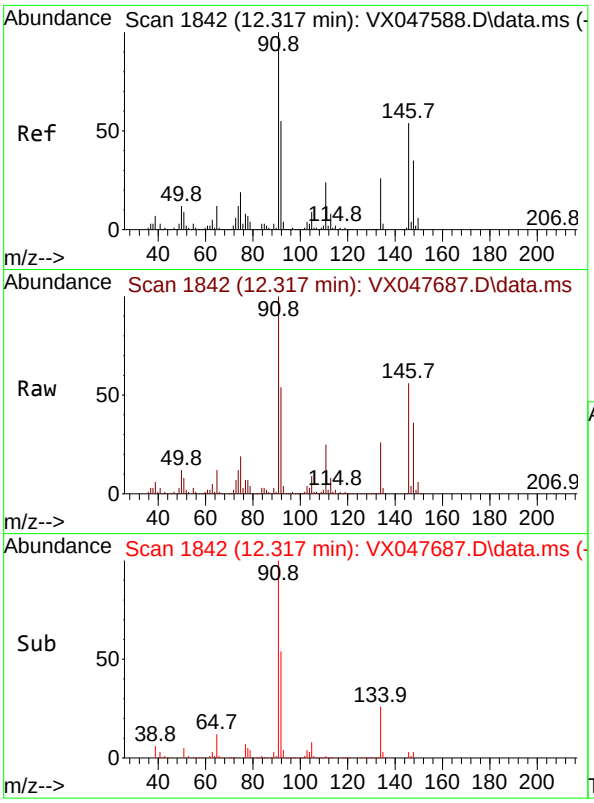


#90
Hexachloroethane
Concen: 50.250 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:117 Resp: 68460

Ion	Ratio	Lower	Upper
117	100		
201	66.7	34.2	102.5



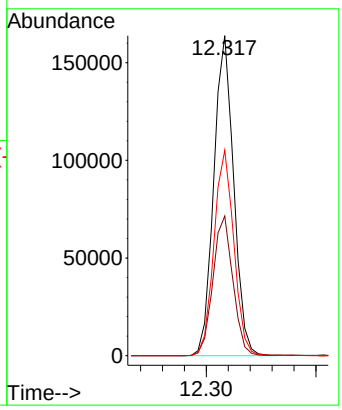


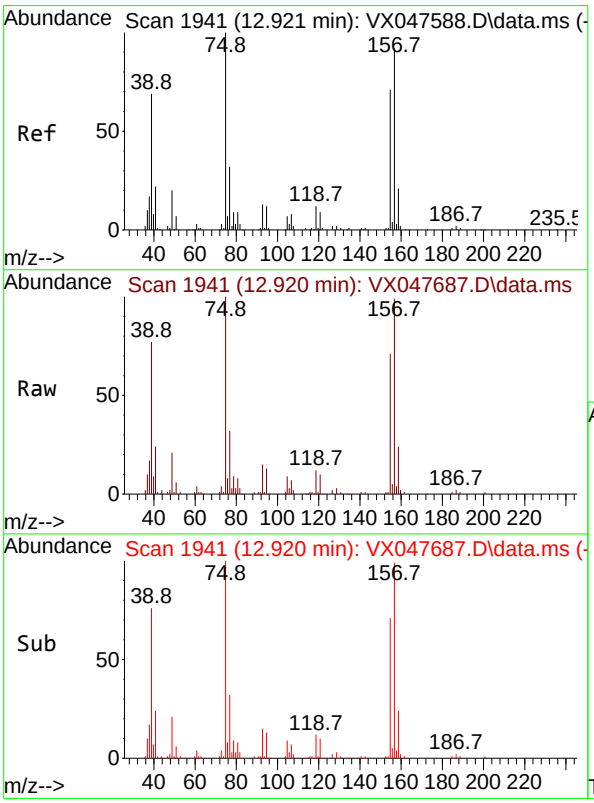
#91
1,2-Dichlorobenzene
Concen: 51.610 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 206378

Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.2	66.6
148	64.4	31.8	95.4

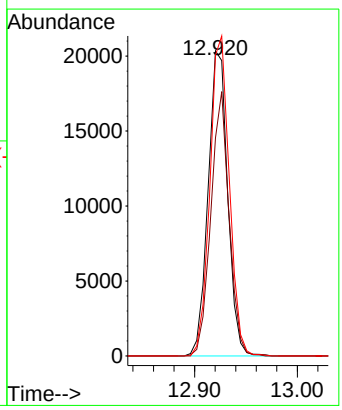


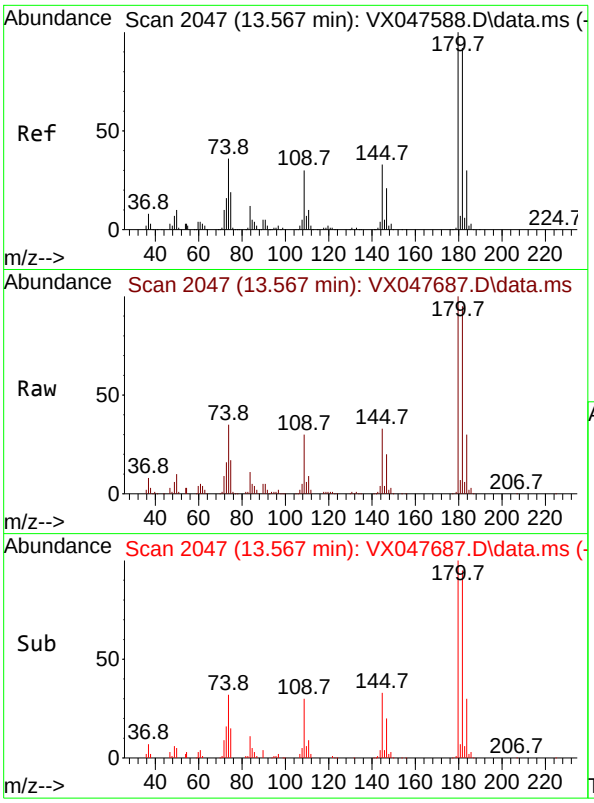


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.873 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion: 75 Resp: 26906

Ion	Ratio	Lower	Upper
75	100		
155	80.6	37.7	113.1
157	104.0	49.8	149.4



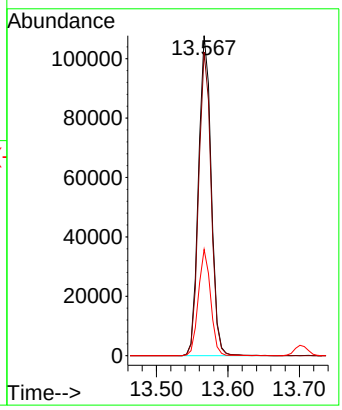


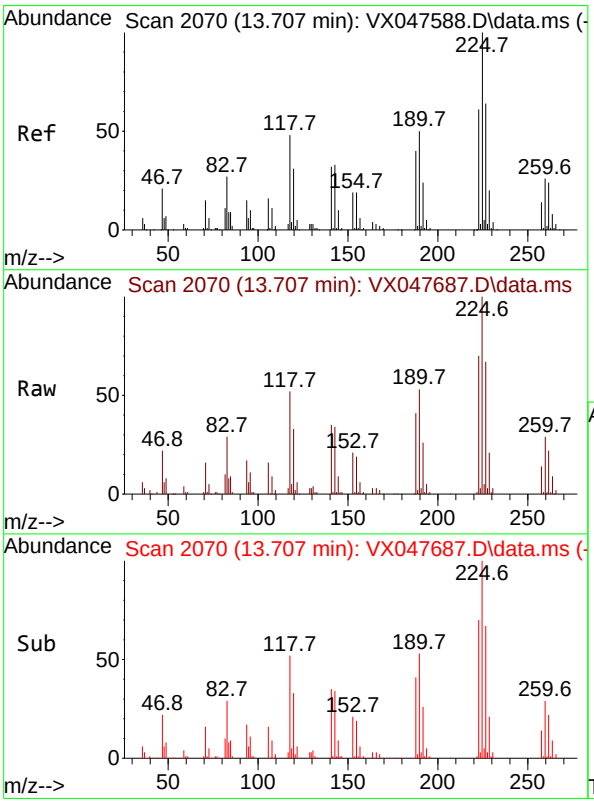
#93
1,2,4-Trichlorobenzene
Concen: 50.815 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 132061

Ion	Ratio	Lower	Upper
180	100		
182	93.5	46.6	139.8
145	32.1	16.4	49.1

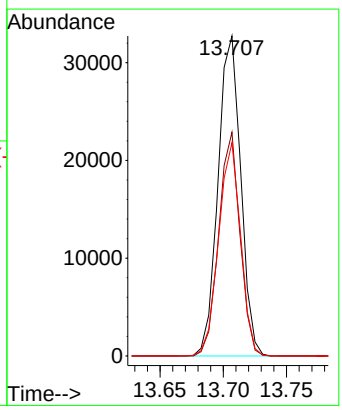


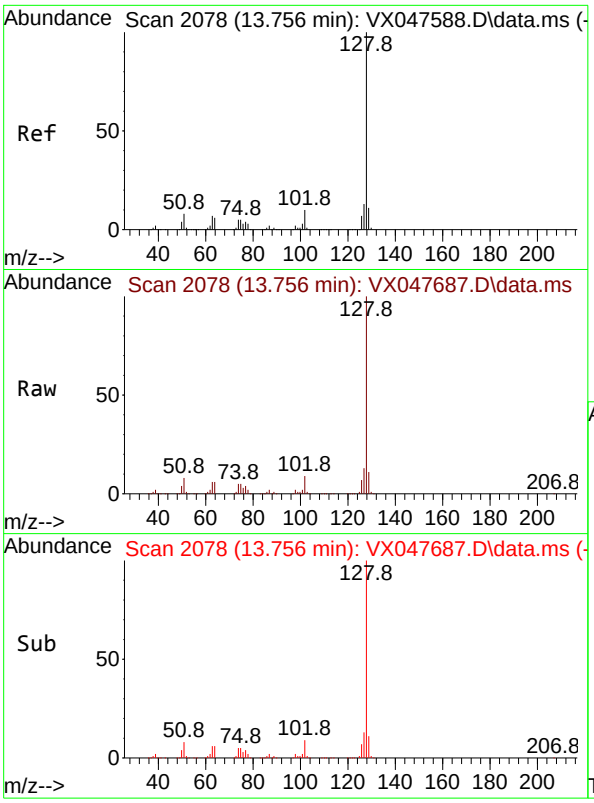


#94
Hexachlorobutadiene
Concen: 46.163 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:225 Resp: 40751

Ion	Ratio	Lower	Upper
225	100		
223	65.3	31.7	95.1
227	64.6	32.0	96.0



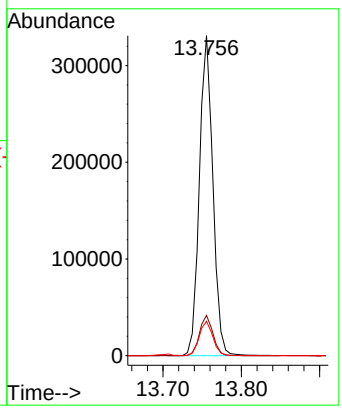


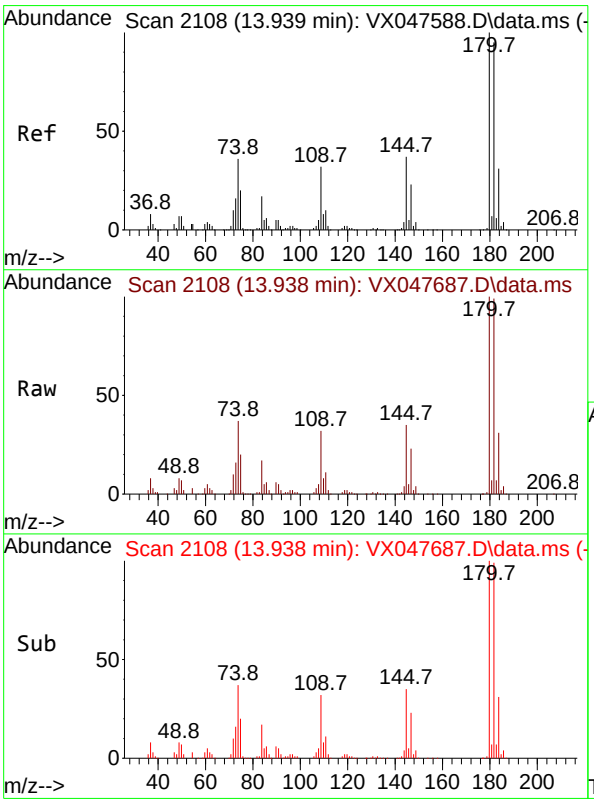
#95
Naphthalene
Concen: 49.995 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 395649

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.9	8.8	13.2

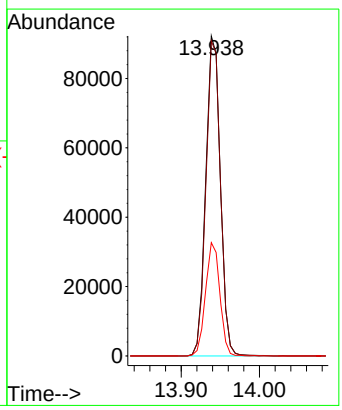




#96
1,2,3-Trichlorobenzene
Concen: 49.173 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047687.D
Acq: 19 Sep 2025 19:03

Tgt Ion:180 Resp: 118876

Ion	Ratio	Lower	Upper
180	100		
182	98.1	47.6	142.8
145	34.9	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	186088	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	326997	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	282237	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	135594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	151386	51.108	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.220%			
35) Dibromofluoromethane	5.367	113	118783	54.164	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.320%			
50) Toluene-d8	8.629	98	398559	52.523	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 105.040%			
62) 4-Bromofluorobenzene	11.061	95	147405	51.184	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	130582	67.766	ug/l	99
3) Chloromethane	1.301	50	154386	60.960	ug/l	99
4) Vinyl Chloride	1.380	62	154105	62.162	ug/l	100
5) Bromomethane	1.618	94	100963	64.225	ug/l	98
6) Chloroethane	1.697	64	95237	57.477	ug/l	99
7) Trichlorofluoromethane	1.892	101	214231	58.200	ug/l	99
8) Diethyl Ether	2.136	74	81887	54.382	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	122289	56.816	ug/l	100
10) Methyl Iodide	2.453	142	180951	53.906	ug/l	99
11) Tert butyl alcohol	2.934	59	68582	207.891	ug/l	100
12) 1,1-Dichloroethene	2.325	96	125529	56.777	ug/l	97
13) Acrolein	2.233	56	82024	269.814	ug/l	99
14) Allyl chloride	2.666	41	243094	53.283	ug/l	98
15) Acrylonitrile	3.050	53	313655	256.685	ug/l	99
16) Acetone	2.367	43	299354	232.434	ug/l	98
17) Carbon Disulfide	2.514	76	364510	60.224	ug/l	98
18) Methyl Acetate	2.697	43	140835	49.136	ug/l	97
19) Methyl tert-butyl Ether	3.105	73	417728	51.758	ug/l	97
20) Methylene Chloride	2.788	84	144810	53.119	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	131016	55.041	ug/l	99
22) Diisopropyl ether	3.745	45	471640	53.342	ug/l	90
23) Vinyl Acetate	3.709	43	1878460	265.449	ug/l	99
24) 1,1-Dichloroethane	3.599	63	253921	54.031	ug/l	98
25) 2-Butanone	4.532	43	375302	233.614	ug/l	99
26) 2,2-Dichloropropane	4.465	77	204537	52.358	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	156127	53.558	ug/l	99
28) Bromochloromethane	4.879	49	103740	50.564	ug/l	100
29) Tetrahydrofuran	4.977	42	225711	233.550	ug/l	99
30) Chloroform	5.074	83	248553	52.338	ug/l	99
31) Cyclohexane	5.452	56	204247	52.182	ug/l	97
32) 1,1,1-Trichloroethane	5.367	97	210320	52.212	ug/l	99
36) 1,1-Dichloropropene	5.672	75	165531	51.655	ug/l	99
37) Ethyl Acetate	4.690	43	160957	46.911	ug/l	99
38) Carbon Tetrachloride	5.660	117	178720	51.330	ug/l	96
39) Methylcyclohexane	7.360	83	191182	52.558	ug/l	95
40) Benzene	6.019	78	516015	53.017	ug/l	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.891	41	87133	49.191	ug/l		98
42) 1,2-Dichloroethane	6.068	62	185367	50.055	ug/l		99
43) Isopropyl Acetate	6.318	43	270484	48.067	ug/l		99
44) Trichloroethene	7.104	130	127009	53.976	ug/l		95
45) 1,2-Dichloropropane	7.409	63	129510	51.965	ug/l		100
46) Dibromomethane	7.562	93	92404	50.950	ug/l		97
47) Bromodichloromethane	7.805	83	193942	51.822	ug/l		97
48) Methyl methacrylate	7.671	41	135938	48.497	ug/l		99
49) 1,4-Dioxane	7.635	88	27869	983.820	ug/l		93
51) 4-Methyl-2-Pentanone	8.555	43	742395	237.947	ug/l		100
52) Toluene	8.702	92	313273	52.243	ug/l		98
53) t-1,3-Dichloropropene	8.958	75	194304	50.900	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	214043	52.459	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	114964	49.721	ug/l		99
56) Ethyl methacrylate	9.098	69	181815	50.070	ug/l		97
57) 1,3-Dichloropropane	9.293	76	202781	51.053	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	433231	249.751	ug/l		99
59) 2-Hexanone	9.415	43	509641	227.437	ug/l		99
60) Dibromochloromethane	9.500	129	138233	51.886	ug/l		99
61) 1,2-Dibromoethane	9.592	107	120255	51.062	ug/l		100
64) Tetrachloroethene	9.256	164	96914	52.674	ug/l		98
65) Chlorobenzene	10.061	112	335812	52.373	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	116763	52.773	ug/l		99
67) Ethyl Benzene	10.177	91	581779	52.587	ug/l		100
68) m/p-Xylenes	10.281	106	434058	105.410	ug/l		99
69) o-Xylene	10.622	106	211322	53.057	ug/l		98
70) Styrene	10.634	104	366737	52.550	ug/l		98
71) Bromoform	10.781	173	87766	53.124	ug/l	#	98
73) Isopropylbenzene	10.945	105	529861	51.399	ug/l		100
74) N-amyl acetate	10.823	43	231908	49.332	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	153486	49.211	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	172485	62.828	ug/l		91
77) Bromobenzene	11.177	156	130012	51.207	ug/l		97
78) n-propylbenzene	11.287	91	623815	51.190	ug/l		99
79) 2-Chlorotoluene	11.348	91	380369	50.962	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	436393	51.525	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	52034	48.334	ug/l		96
82) 4-Chlorotoluene	11.433	91	447005	50.709	ug/l		99
83) tert-Butylbenzene	11.695	119	428900	49.469	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	440824	51.338	ug/l		99
85) sec-Butylbenzene	11.872	105	518888	50.386	ug/l		100
86) p-Isopropyltoluene	11.988	119	437167	50.142	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	238855	50.649	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	238927	49.364	ug/l		99
89) n-Butylbenzene	12.311	91	406919	50.441	ug/l		99
90) Hexachloroethane	12.518	117	79281	51.794	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	227197	50.568	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28445	45.046	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	143201	49.042	ug/l		100
94) Hexachlorobutadiene	13.707	225	46654	47.039	ug/l		99
95) Naphthalene	13.756	128	414295	46.595	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	130139	47.912	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

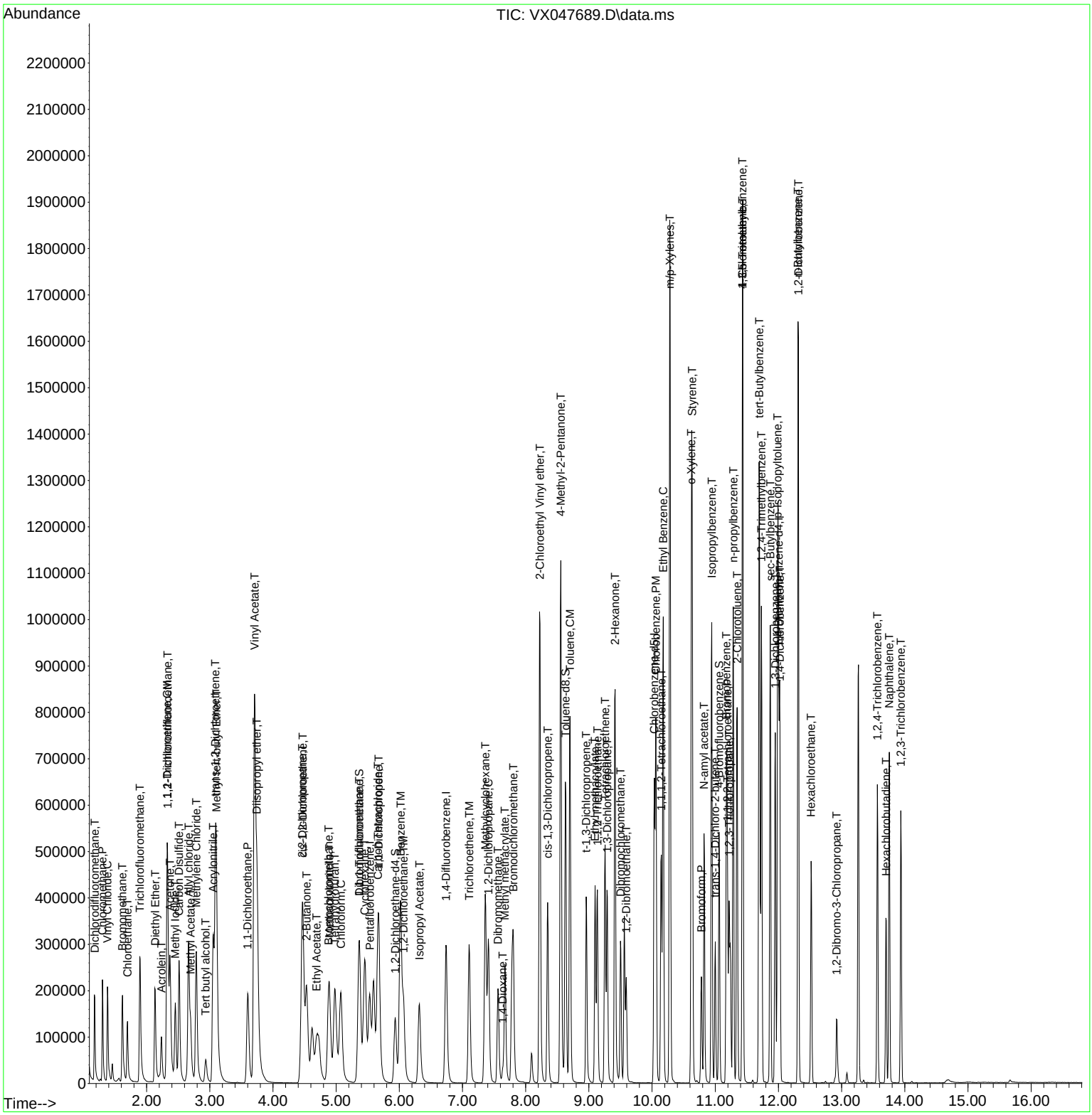
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

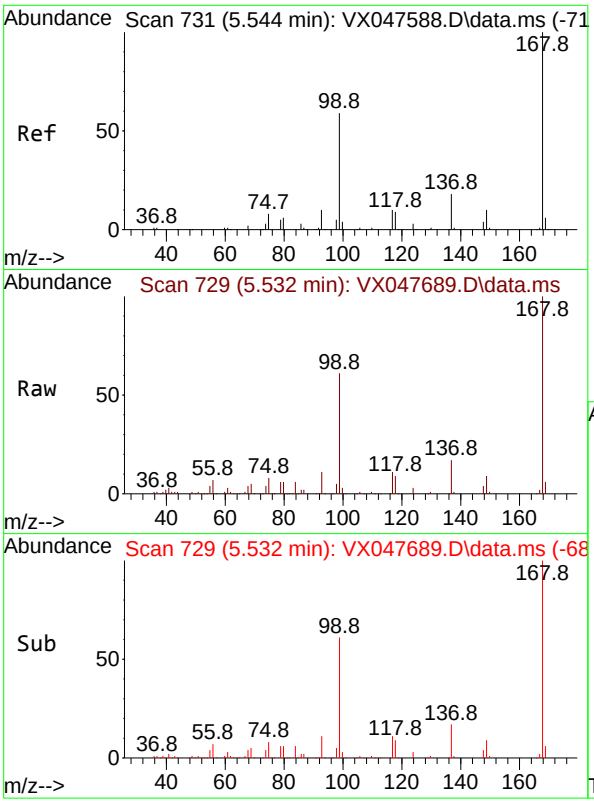
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047689.D
Acq On : 22 Sep 2025 09:38
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 23 01:27:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



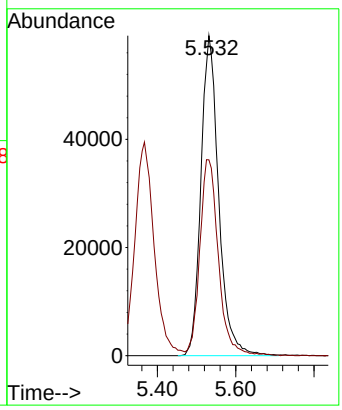


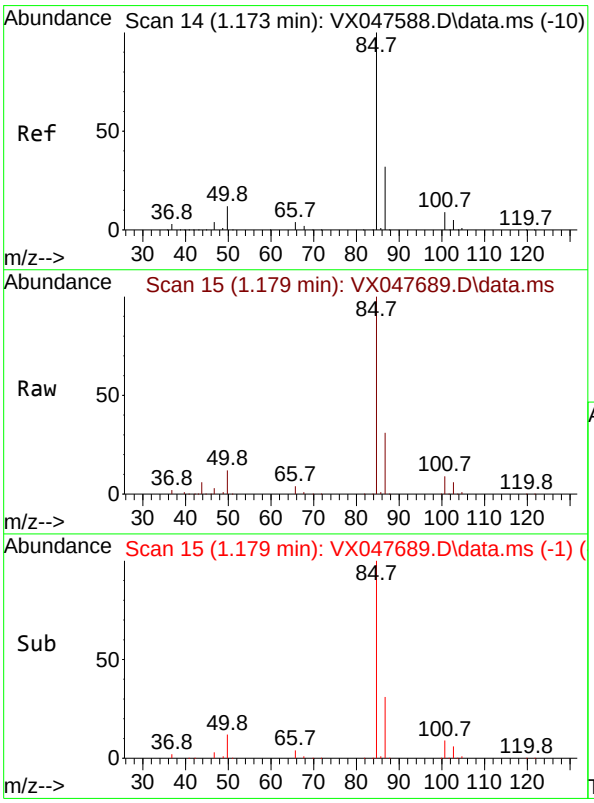
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 186088

Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2

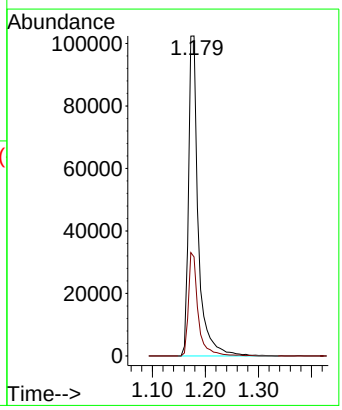


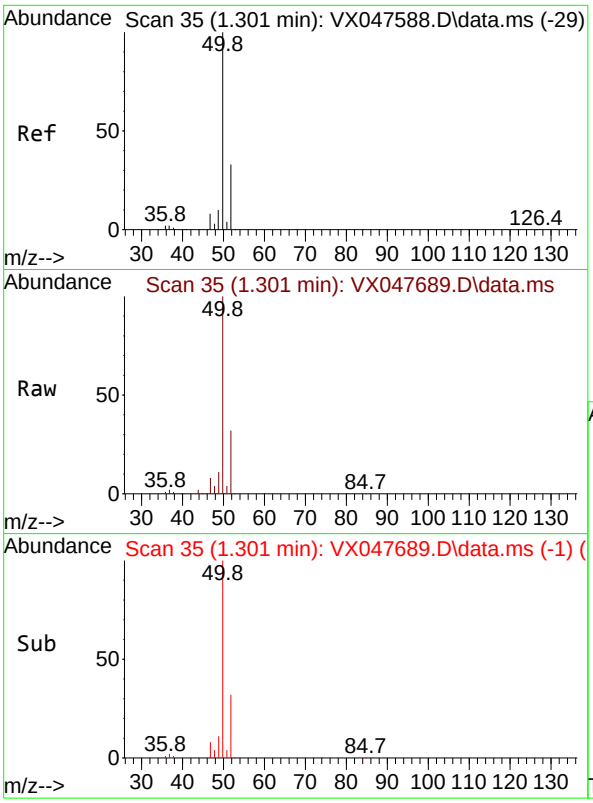


#2
Dichlorodifluoromethane
Concen: 67.766 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 85 Resp: 130582

Ion	Ratio	Lower	Upper
85	100		
87	31.0	15.8	47.3



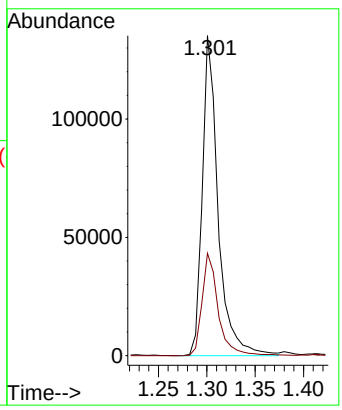


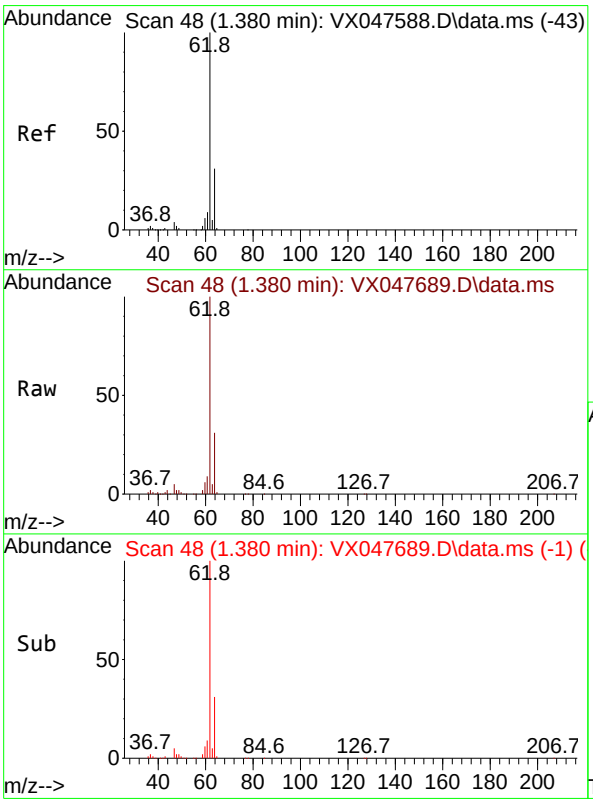
#3
Chloromethane
Concen: 60.960 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 154386

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.1	39.1

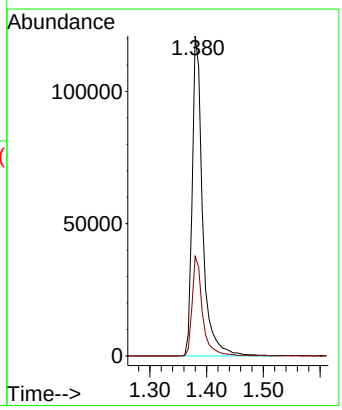


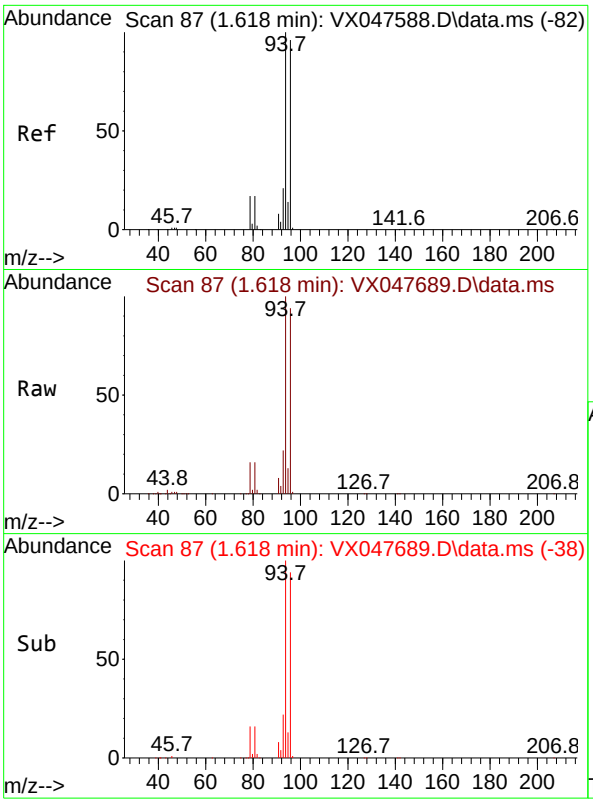


#4
Vinyl Chloride
Concen: 62.162 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 62 Resp: 154105

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3



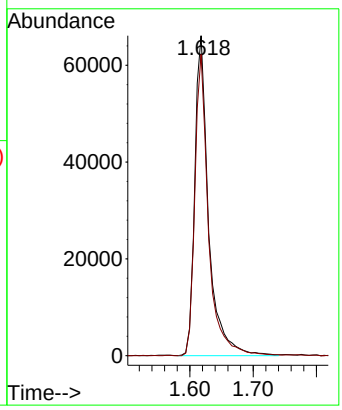


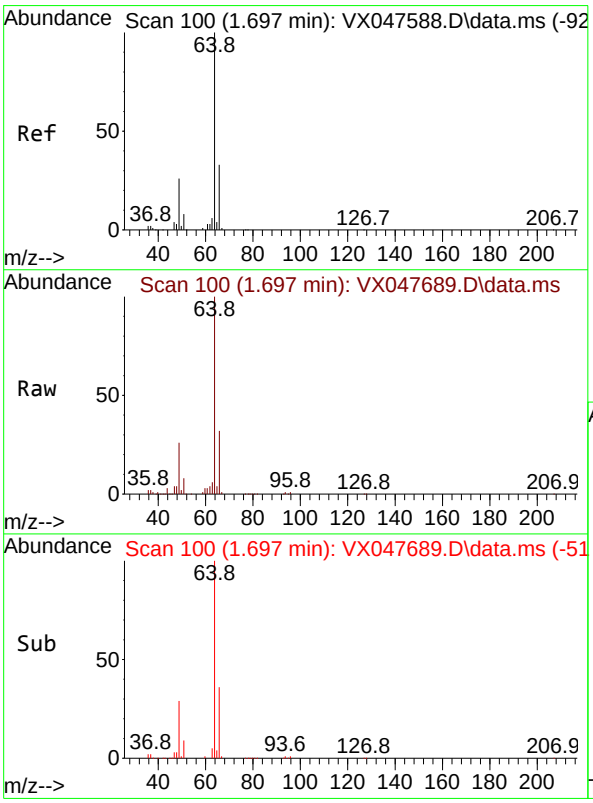
#5
Bromomethane
Concen: 64.225 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 100963

Ion	Ratio	Lower	Upper
94	100		
96	94.1	76.6	115.0

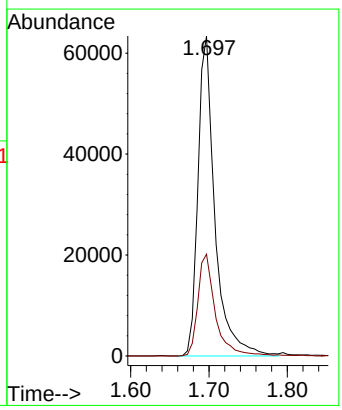


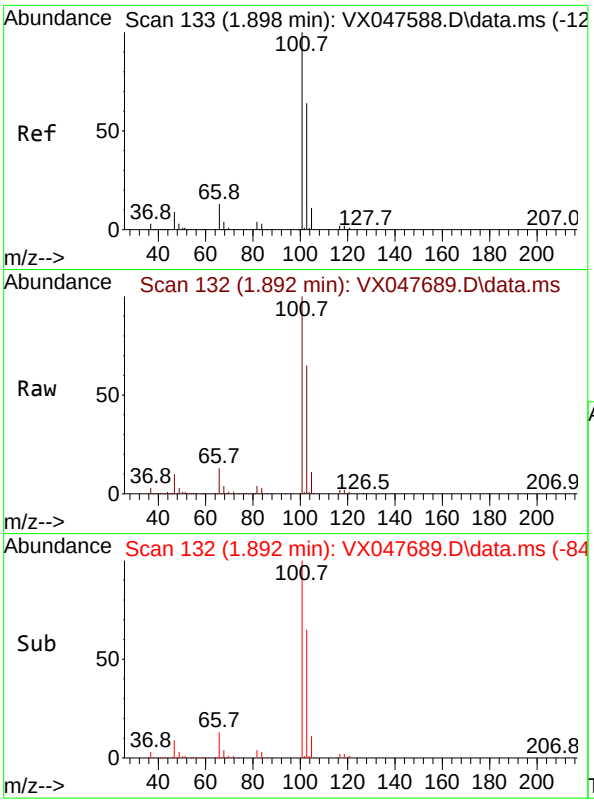


#6
Chloroethane
Concen: 57.477 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 64 Resp: 95237

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.1	39.1



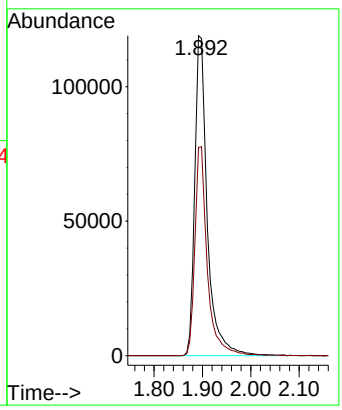


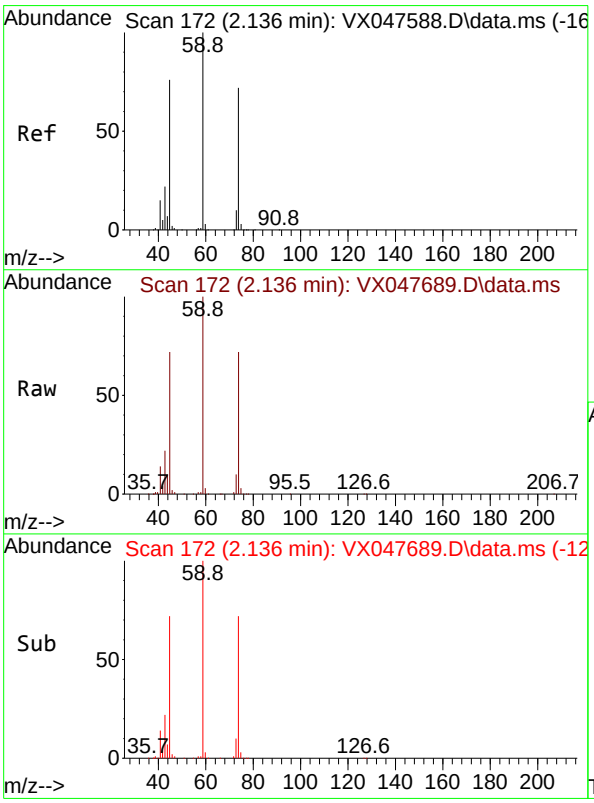
#7
Trichlorofluoromethane
Concen: 58.200 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 214231

Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.4	77.2

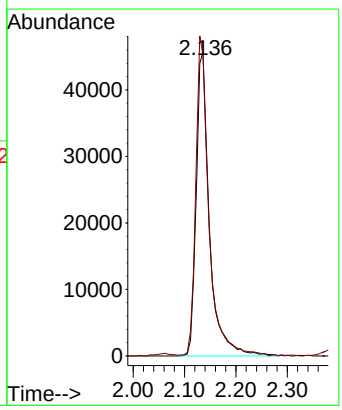


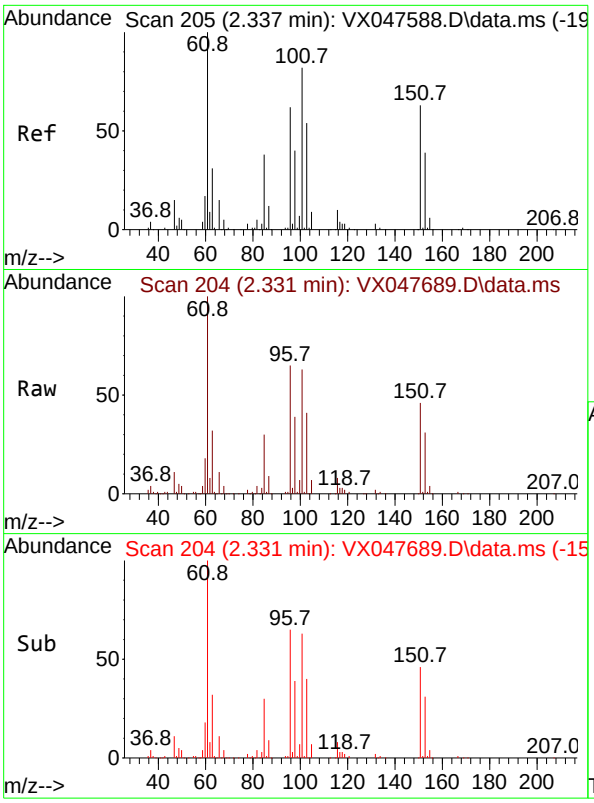


#8
Diethyl Ether
Concen: 54.382 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 74 Resp: 81887

Ion	Ratio	Lower	Upper
74	100		
45	103.1	52.3	156.8



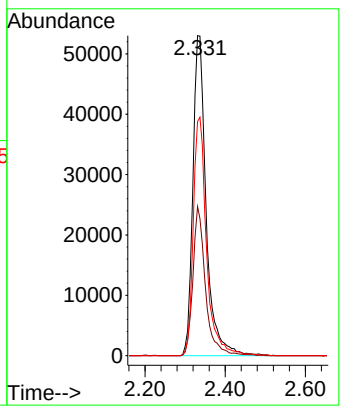


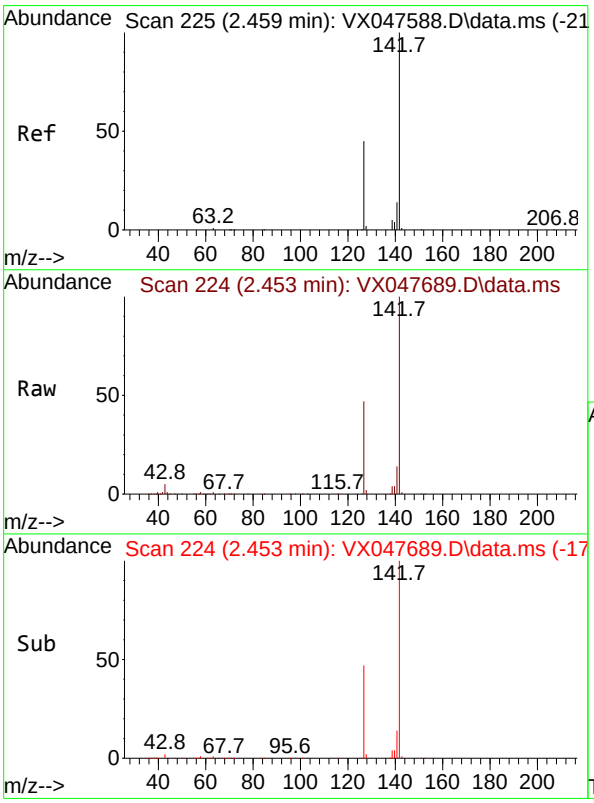
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.816 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 122289

Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	74.6	59.4	89.0

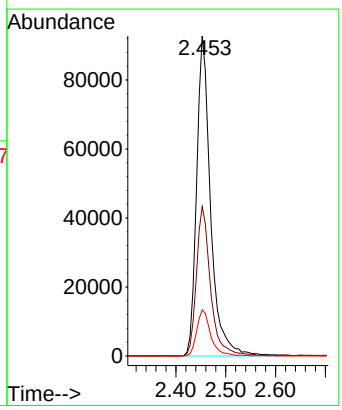


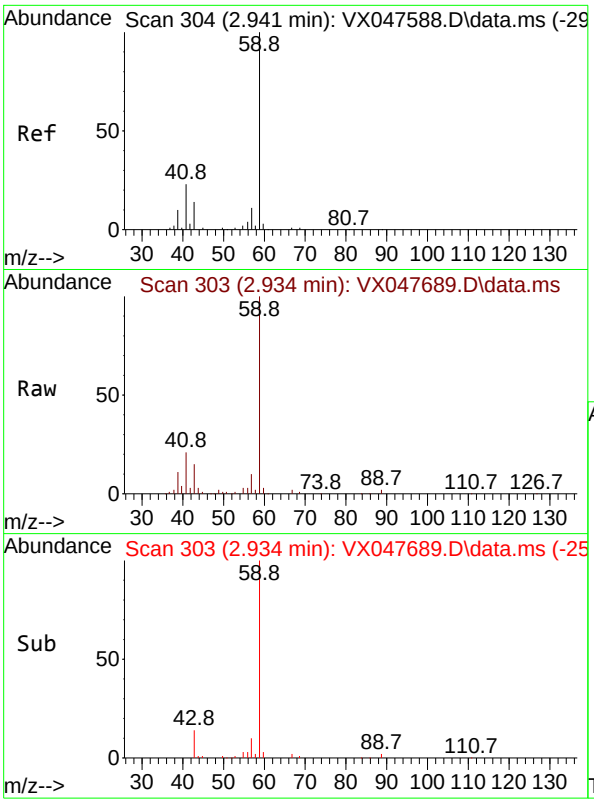


#10
Methyl Iodide
Concen: 53.906 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:142 Resp: 180951

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.4	11.4	17.0



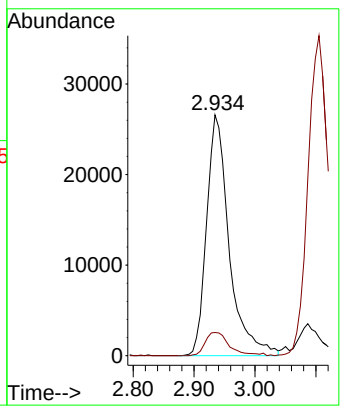


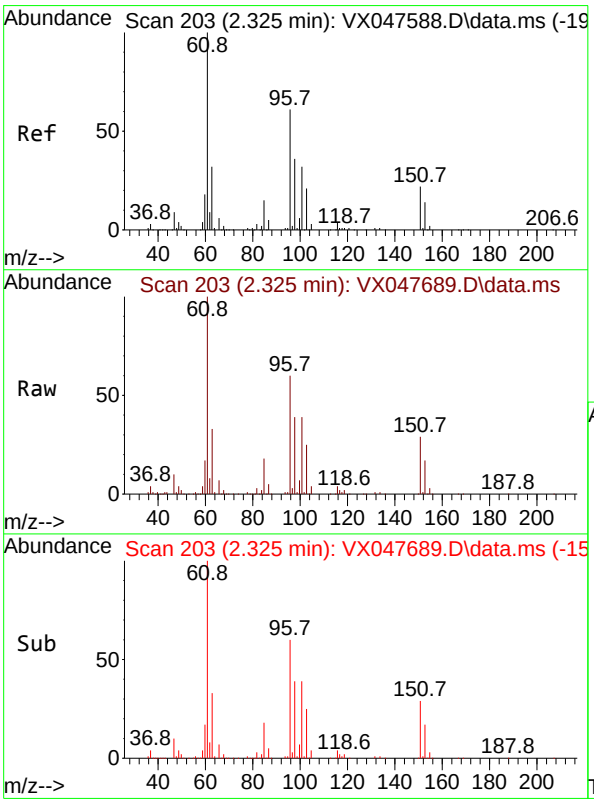
#11
Tert butyl alcohol
Concen: 207.891 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 68582

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5

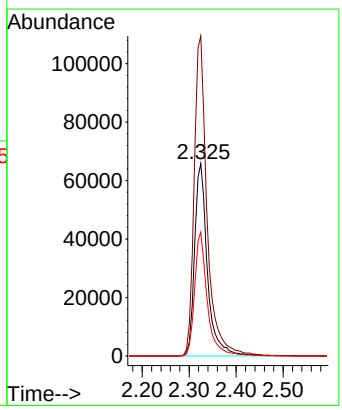


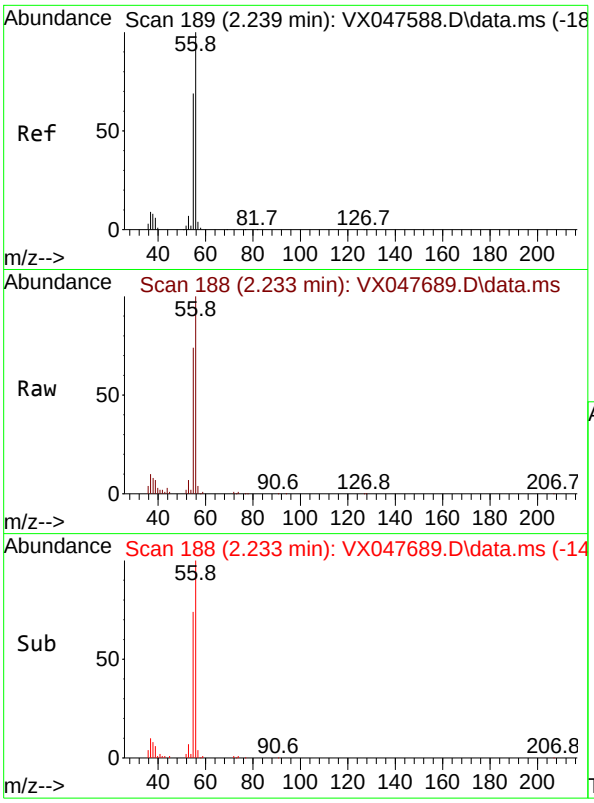


#12
1,1-Dichloroethene
Concen: 56.777 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 96 Resp: 125529

Ion	Ratio	Lower	Upper
96	100		
61	166.4	131.0	196.6
98	64.4	47.7	71.5



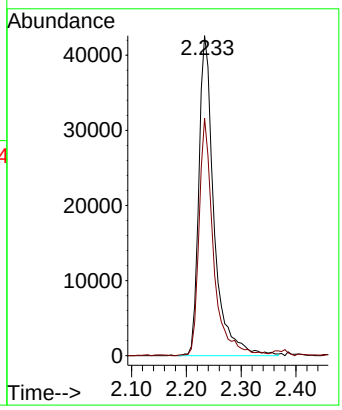


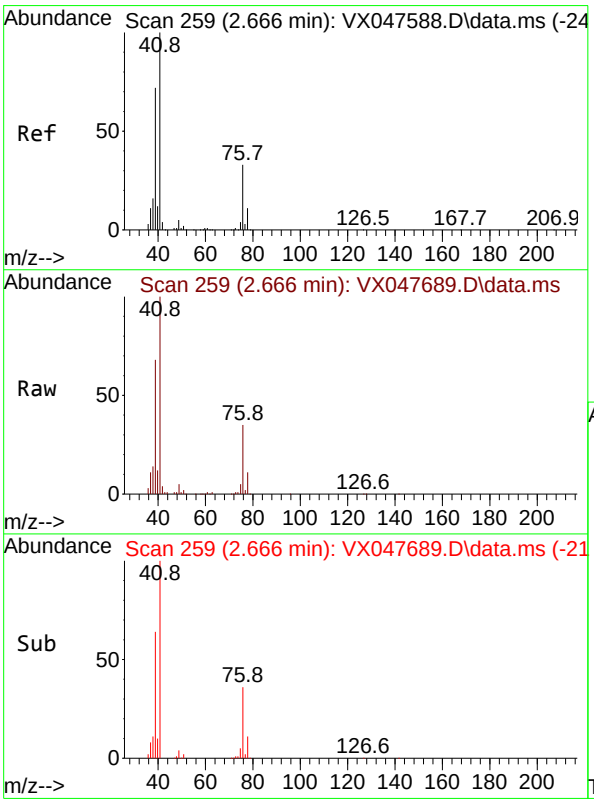
#13
Acrolein
Concen: 269.814 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 82024

Ion	Ratio	Lower	Upper
56	100		
55	70.7	57.2	85.8

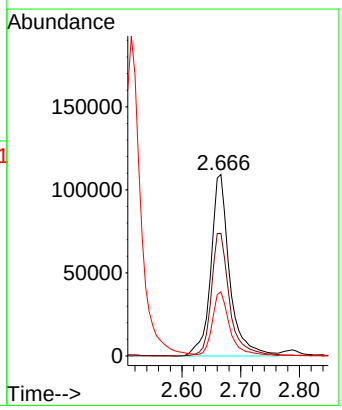


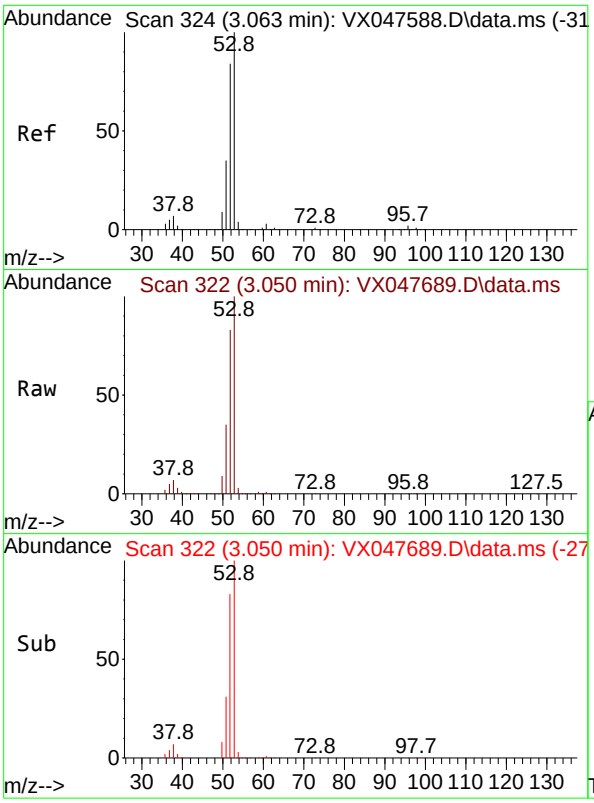


#14
Allyl chloride
Concen: 53.283 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 41 Resp: 243094

Ion	Ratio	Lower	Upper
41	100		
39	66.0	54.7	82.1
76	32.1	25.7	38.5



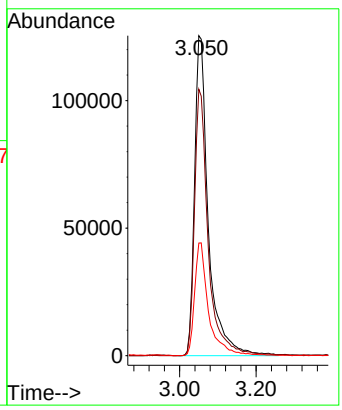


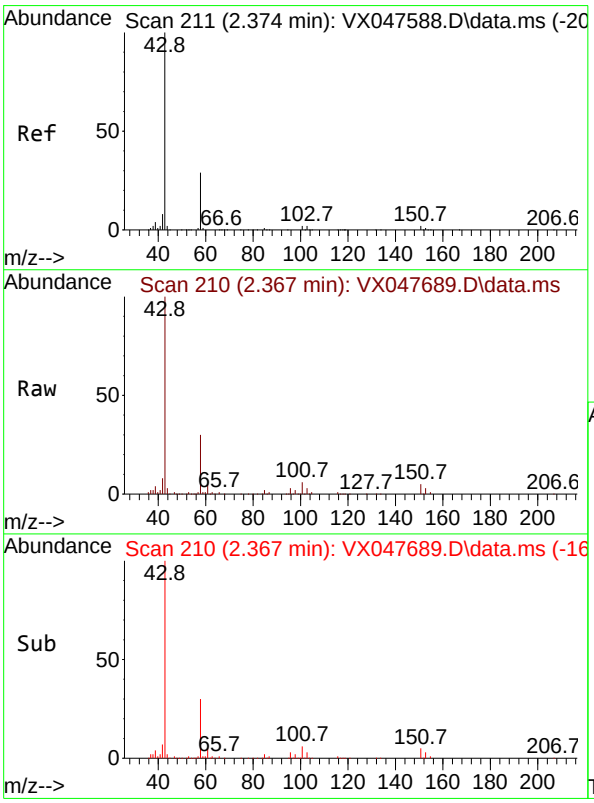
#15
Acrylonitrile
Concen: 256.685 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 313655

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.0	29.5	44.3

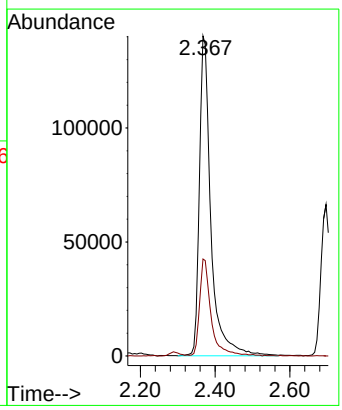


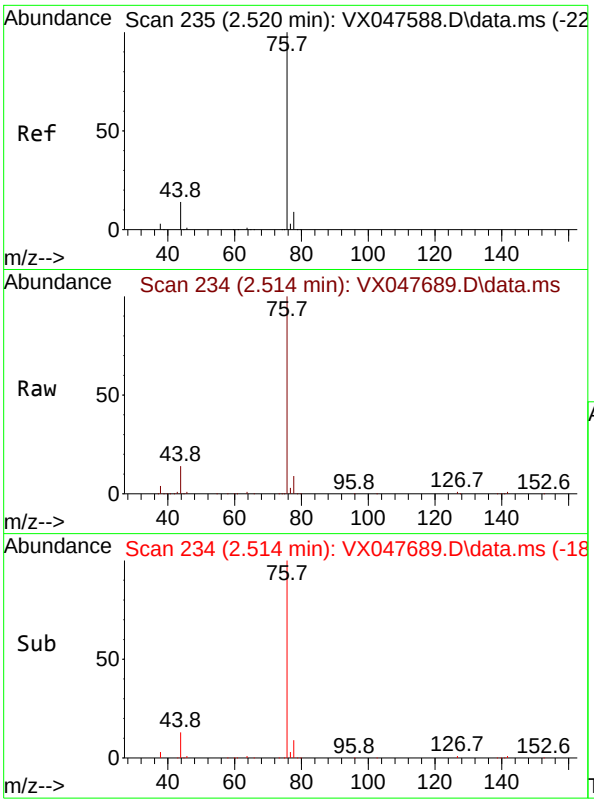


#16
Acetone
Concen: 232.434 ug/l
RT: 2.367 min Scan# 210
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 299354

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.4	35.0



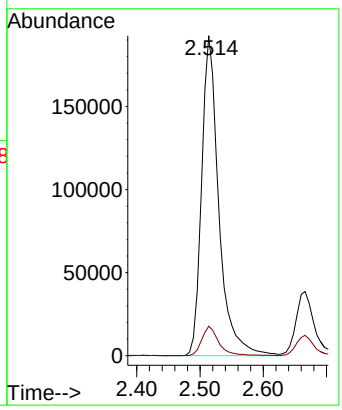


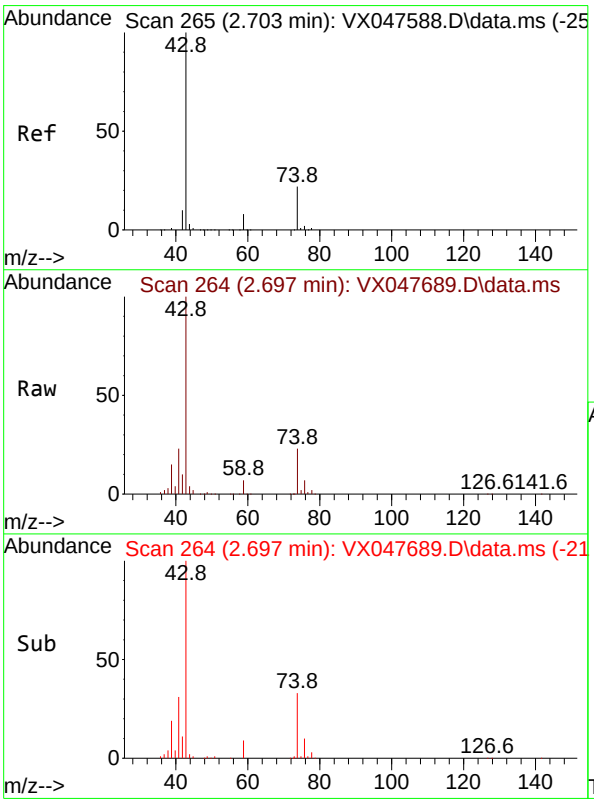
#17
Carbon Disulfide
Concen: 60.224 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 364510

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2

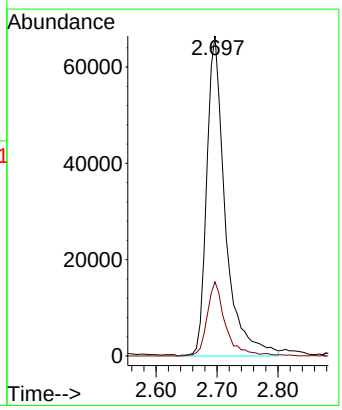


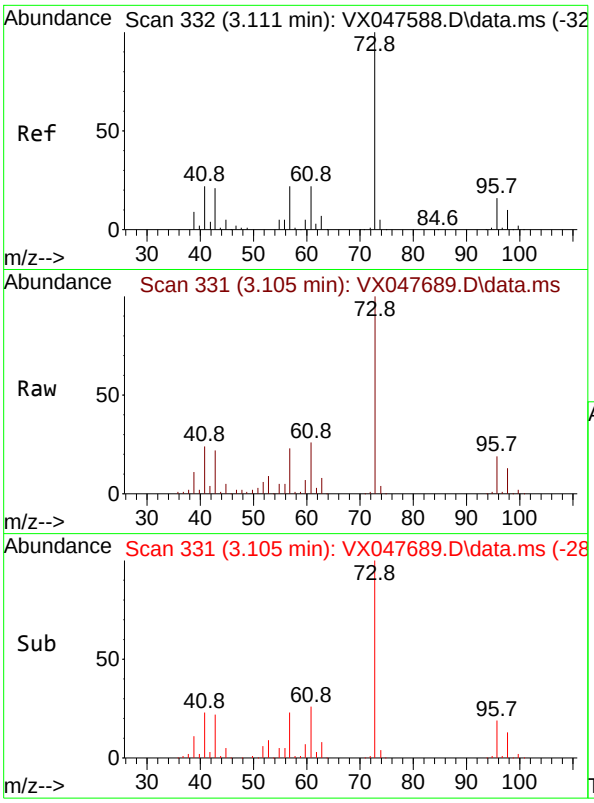


#18
Methyl Acetate
Concen: 49.136 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 140835

Ion	Ratio	Lower	Upper
43	100		
74	23.0	17.4	26.2



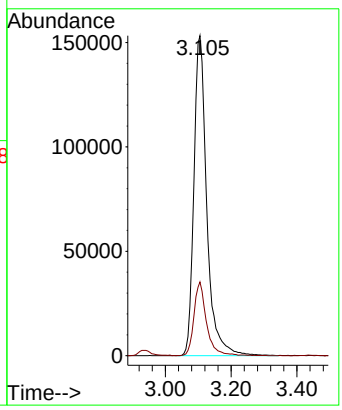


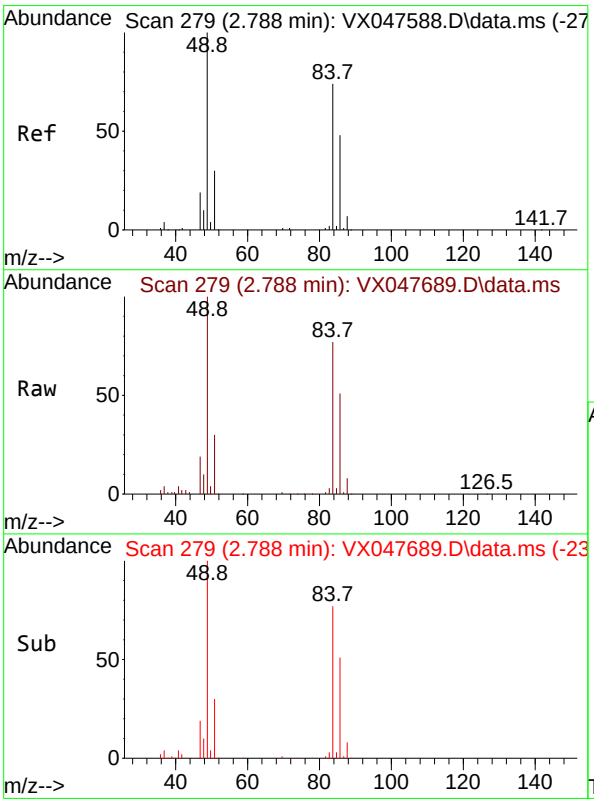
#19
Methyl tert-butyl Ether
Concen: 51.758 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 417728

Ion	Ratio	Lower	Upper
73	100		
57	23.1	17.4	26.2

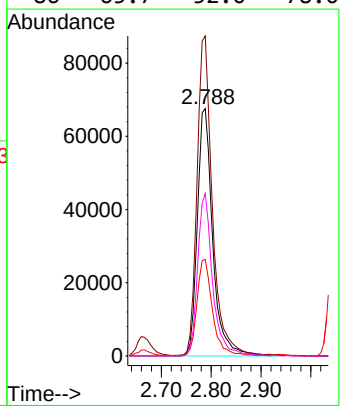


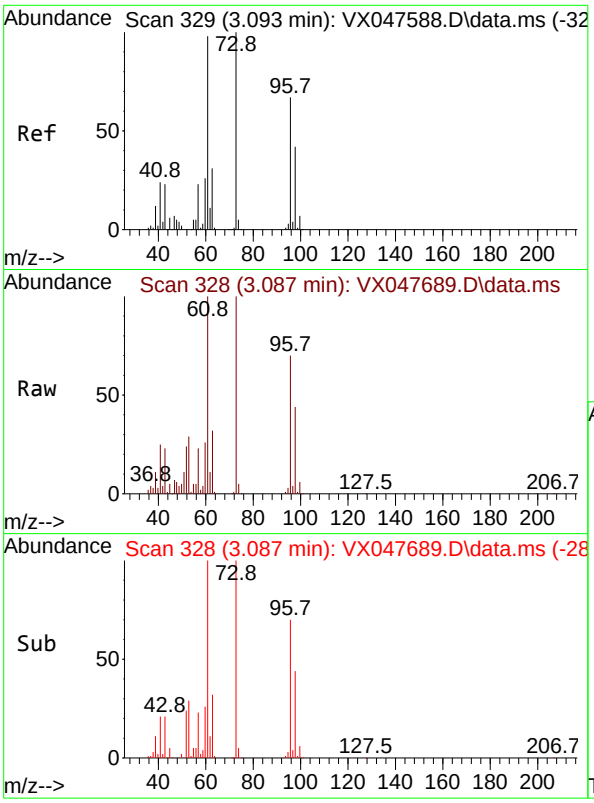


#20
Methylene Chloride
Concen: 53.119 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 84 Resp: 144810

Ion	Ratio	Lower	Upper
84	100		
49	129.1	108.6	162.8
51	38.9	32.6	48.8
86	65.7	52.0	78.0



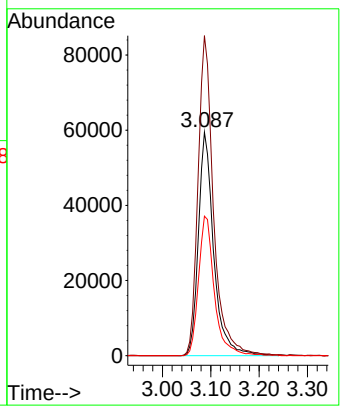


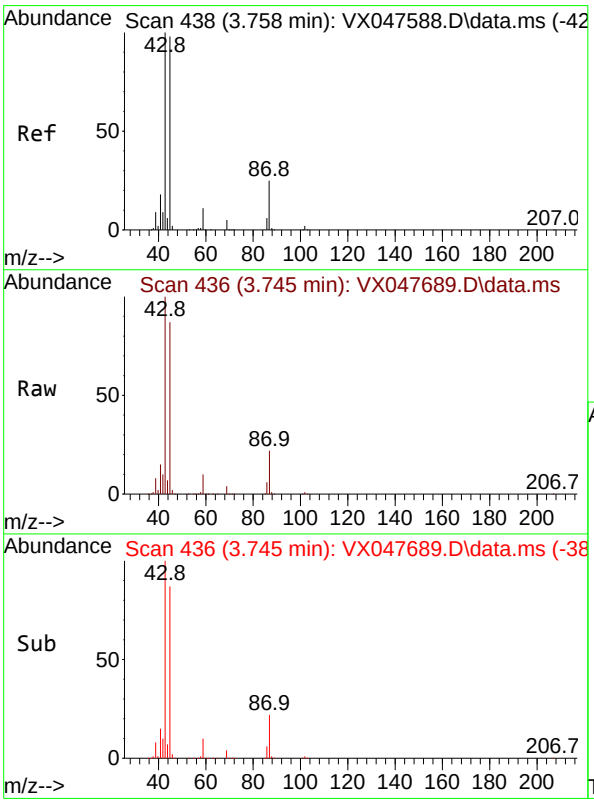
#21
trans-1,2-Dichloroethene
Concen: 55.041 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 131016

Ion	Ratio	Lower	Upper
96	100		
61	143.1	116.2	174.2
98	62.4	49.3	73.9

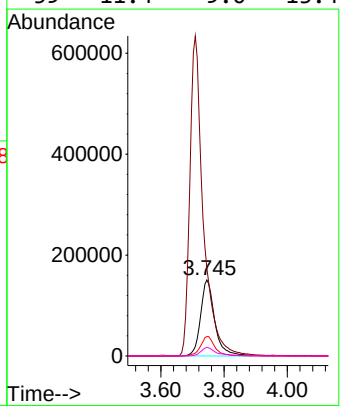


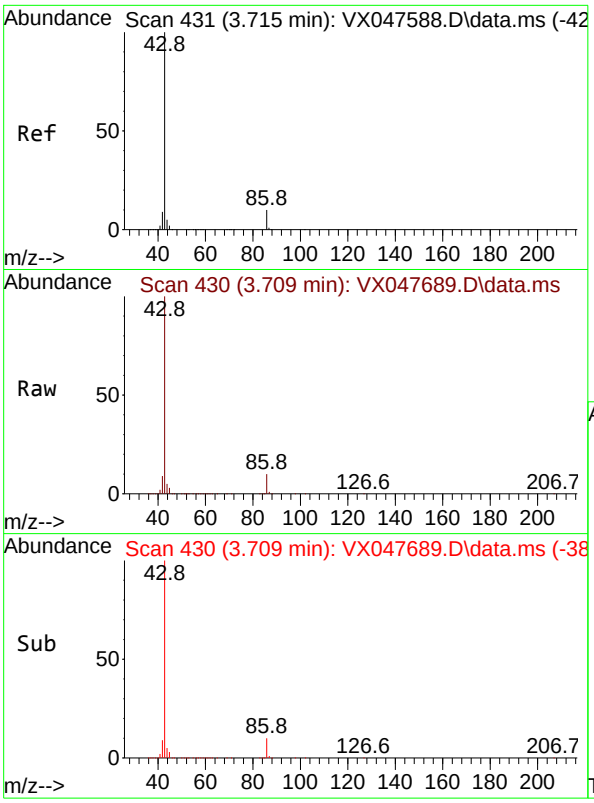


#22
Diisopropyl ether
Concen: 53.342 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 45 Resp: 471640

Ion	Ratio	Lower	Upper
45	100		
43	115.2	81.0	121.4
87	25.5	20.3	30.5
59	11.4	9.0	13.4



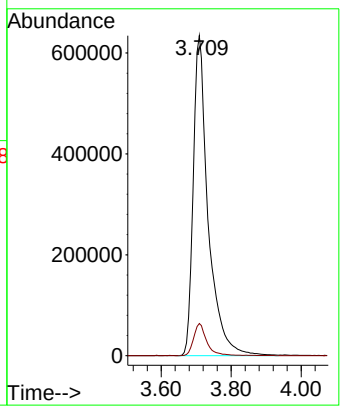


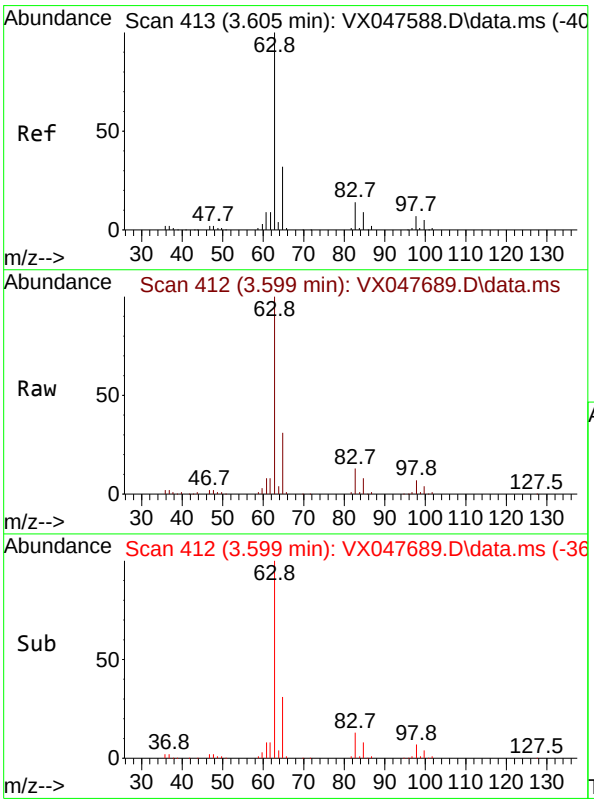
#23
Vinyl Acetate
Concen: 265.449 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1878460

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

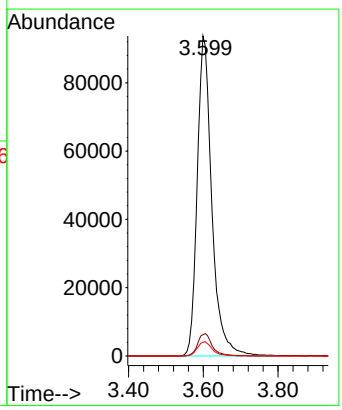


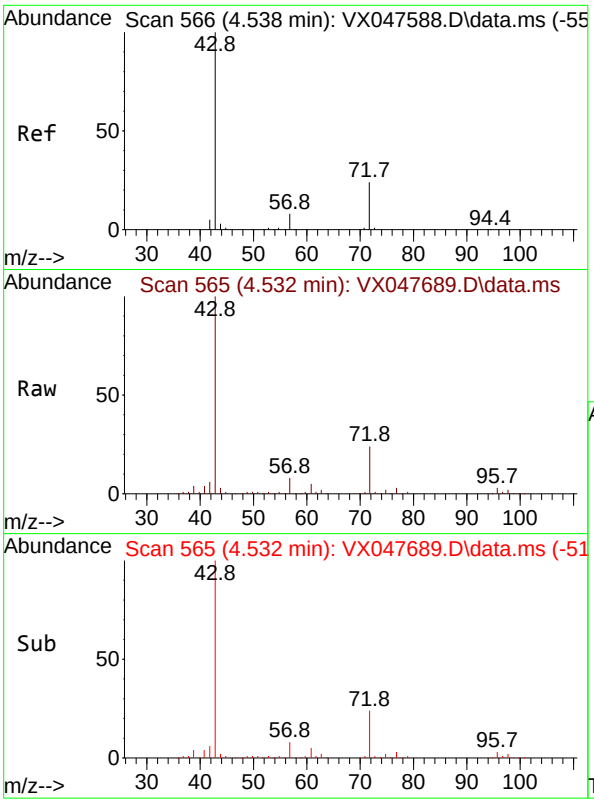


#24
1,1-Dichloroethane
Concen: 54.031 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 63 Resp: 253921

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.3	2.3	6.9



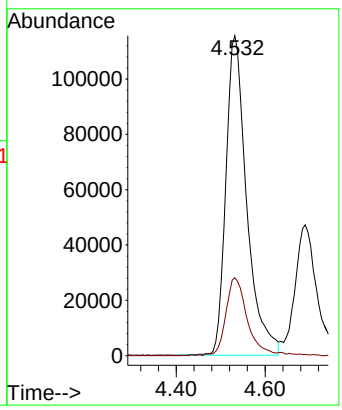


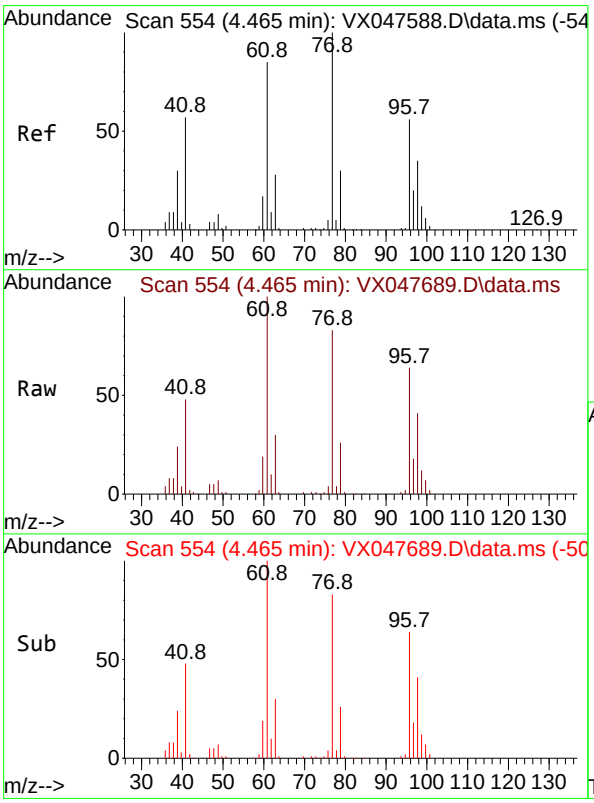
#25
2-Butanone
Concen: 233.614 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 375302

Ion	Ratio	Lower	Upper
43	100		
72	24.5	20.1	30.1

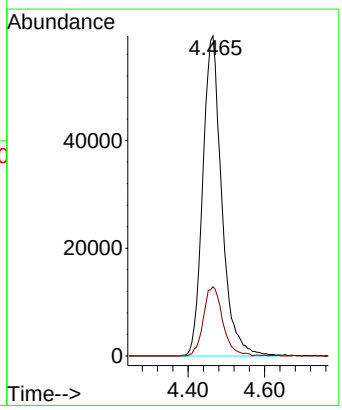


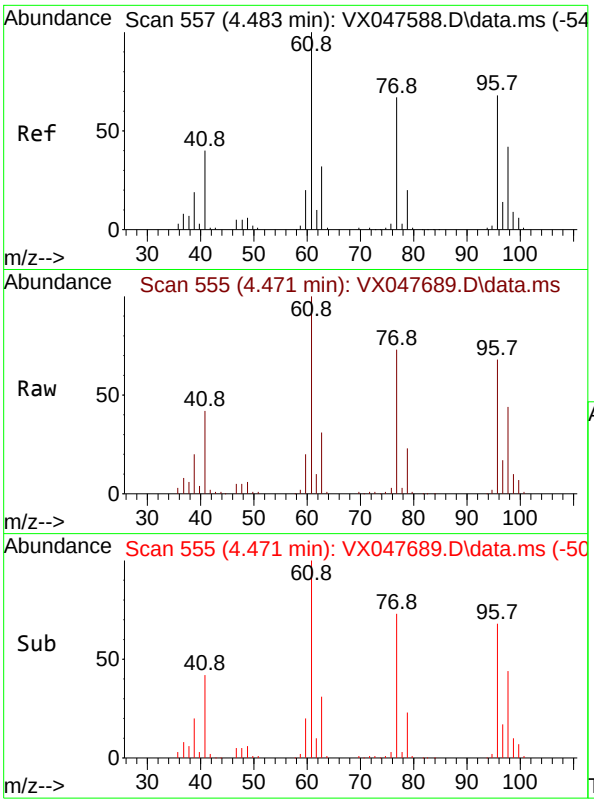


#26
2,2-Dichloropropane
Concen: 52.358 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 77 Resp: 204537

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.9	32.7



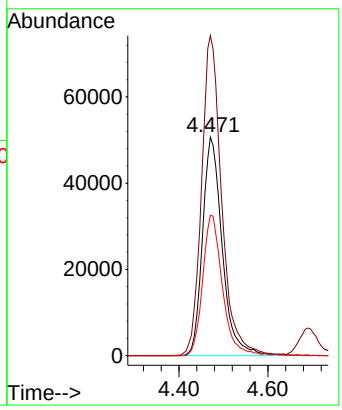


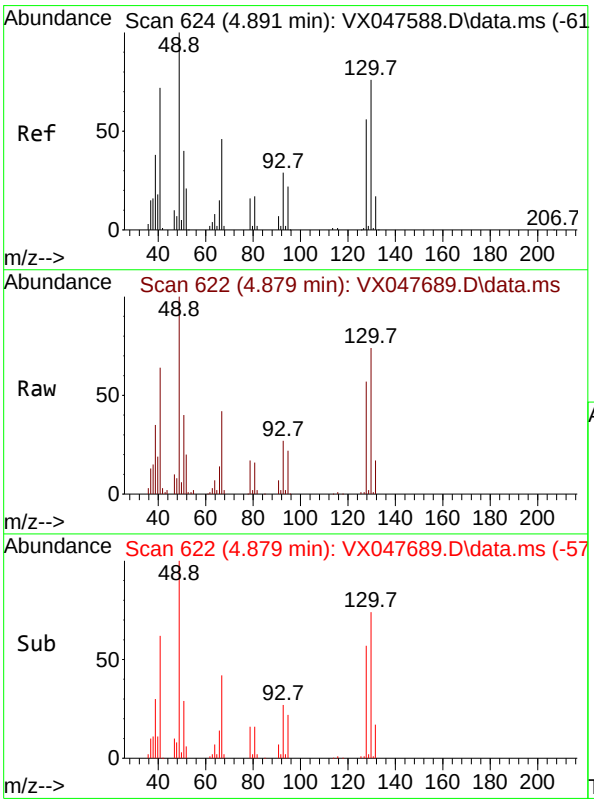
#27
cis-1,2-Dichloroethene
Concen: 53.558 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 156127

Ion	Ratio	Lower	Upper
96	100		
61	149.9	0.0	303.2
98	64.1	0.0	127.8

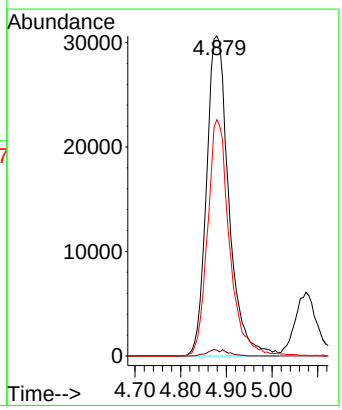


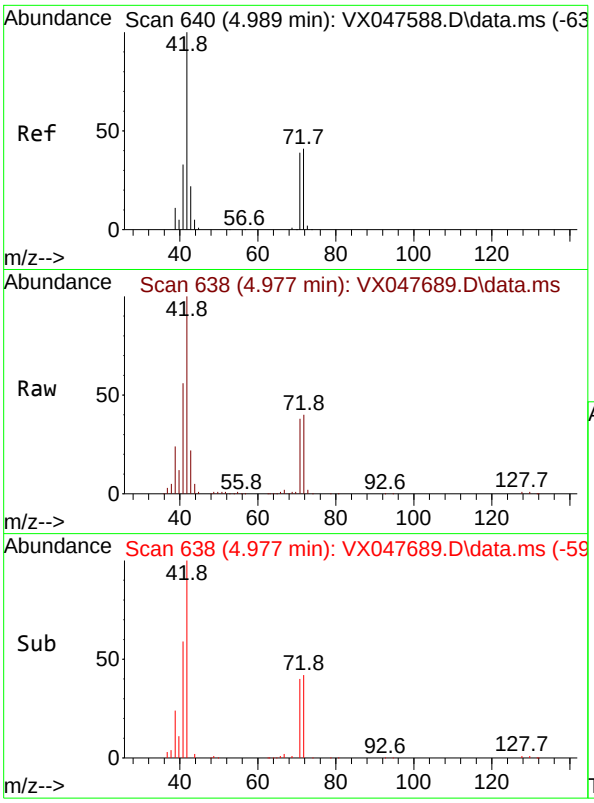


#28
Bromochloromethane
Concen: 50.564 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 49 Resp: 103740

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.7	57.8	86.8



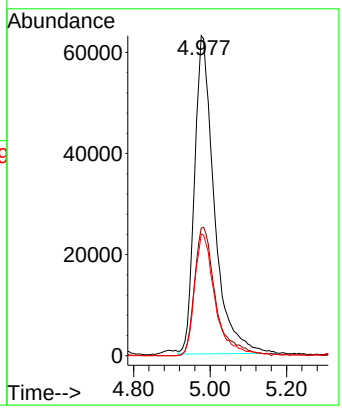


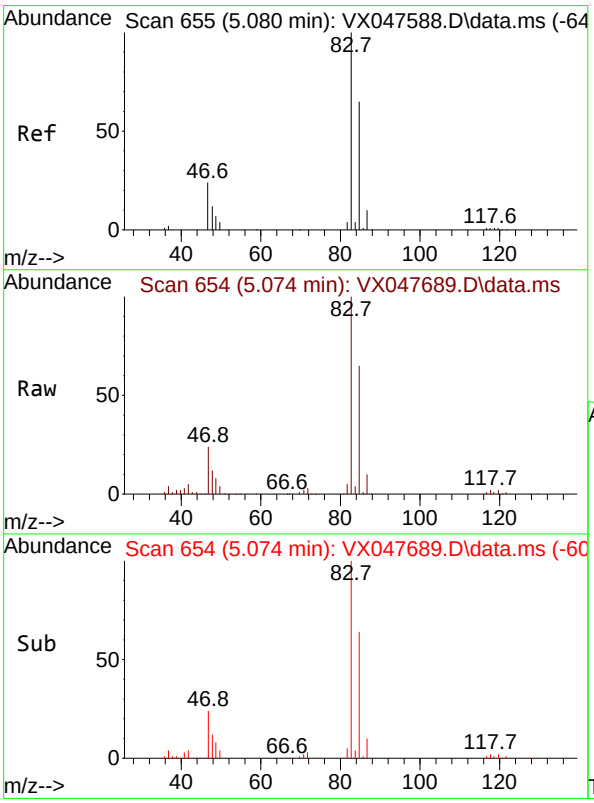
#29
Tetrahydrofuran
Concen: 233.550 ug/l
RT: 4.977 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 225711

Ion	Ratio	Lower	Upper
42	100		
72	43.3	34.2	51.2
71	39.7	31.9	47.9

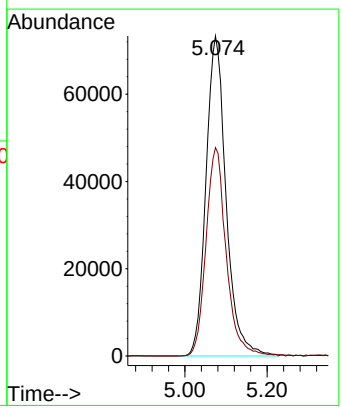


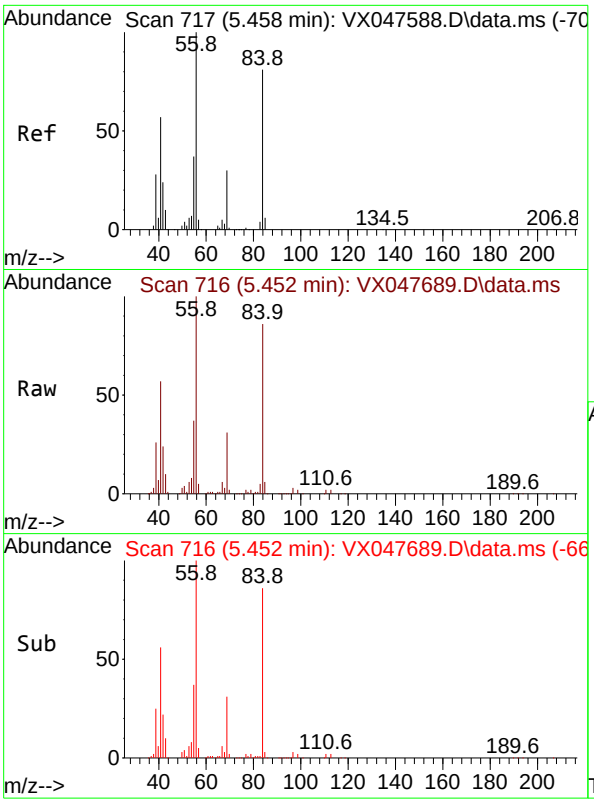


#30
Chloroform
Concen: 52.338 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 83 Resp: 248553

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.6



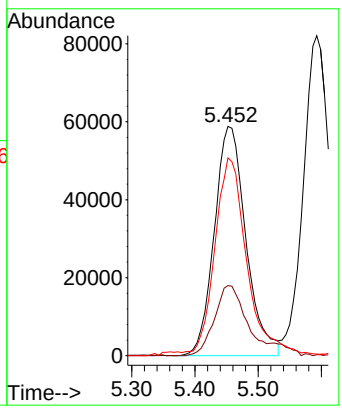


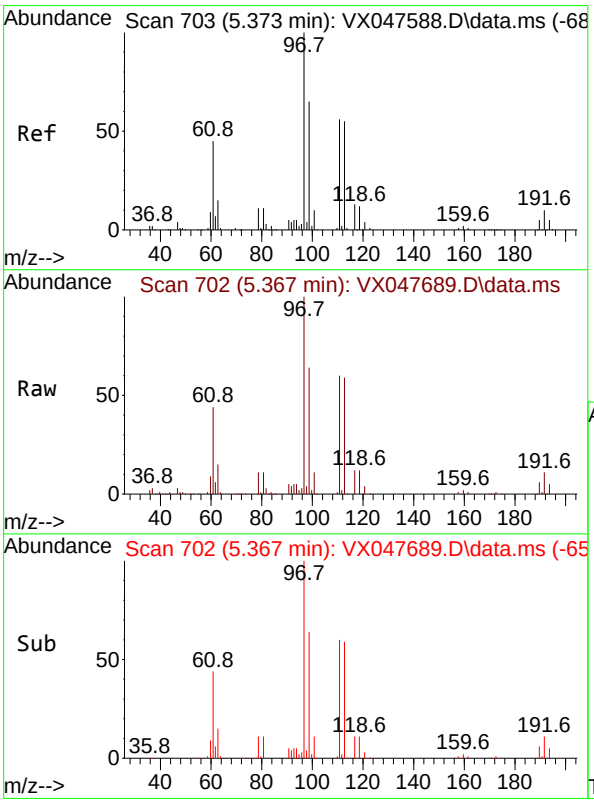
#31
Cyclohexane
Concen: 52.182 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 204247

Ion	Ratio	Lower	Upper
56	100		
69	30.3	23.8	35.8
84	84.3	64.6	97.0

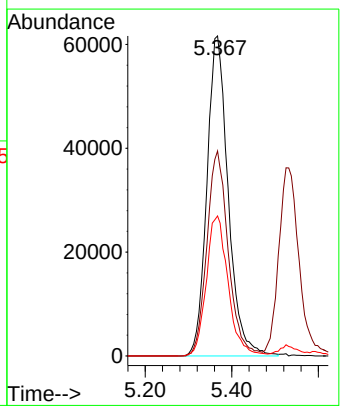


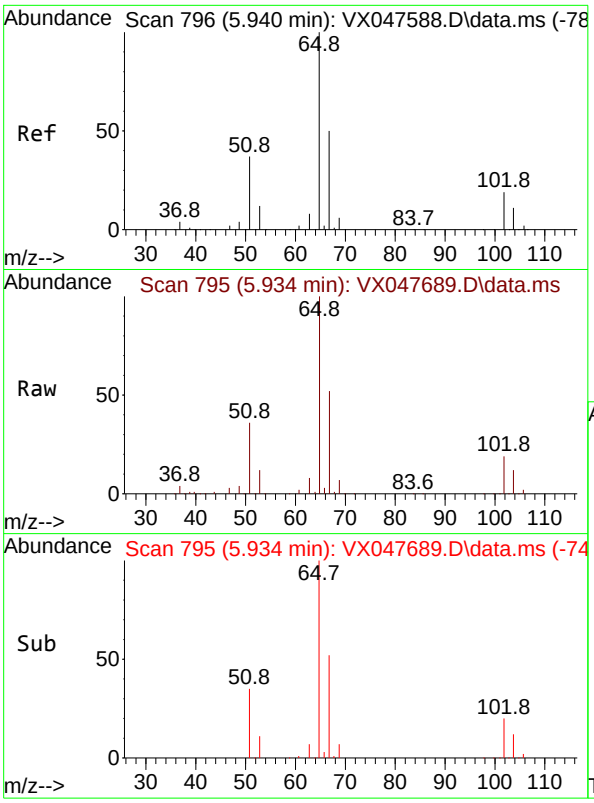


#32
1,1,1-Trichloroethane
Concen: 52.212 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 97 Resp: 210320

Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.6	76.0
61	45.1	35.8	53.8



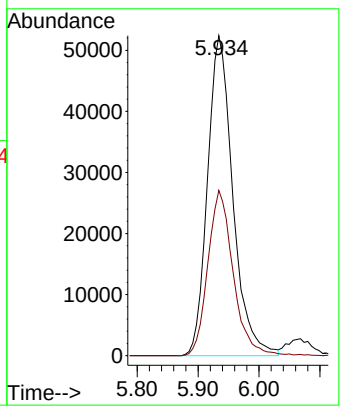


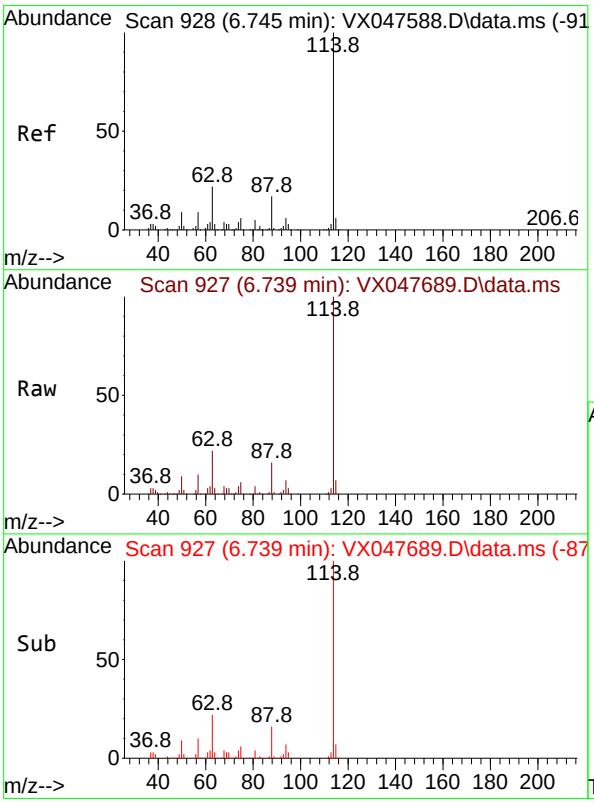
#33
1,2-Dichloroethane-d4
Concen: 51.108 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 151386

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	103.0

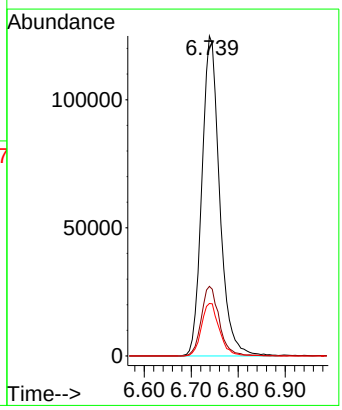


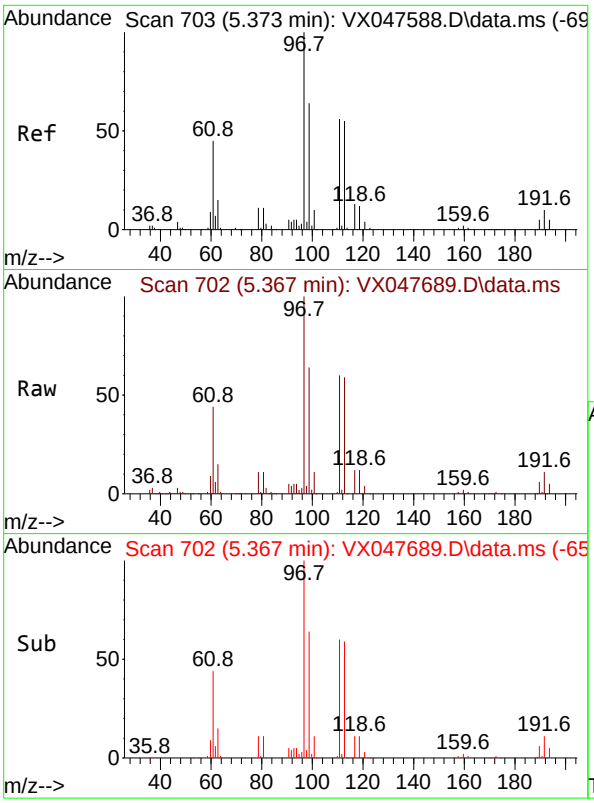


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:114 Resp: 326997

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	44.0
88	16.4	0.0	34.2



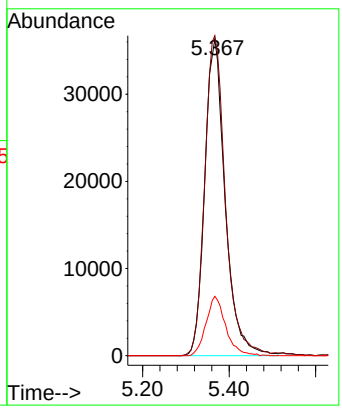


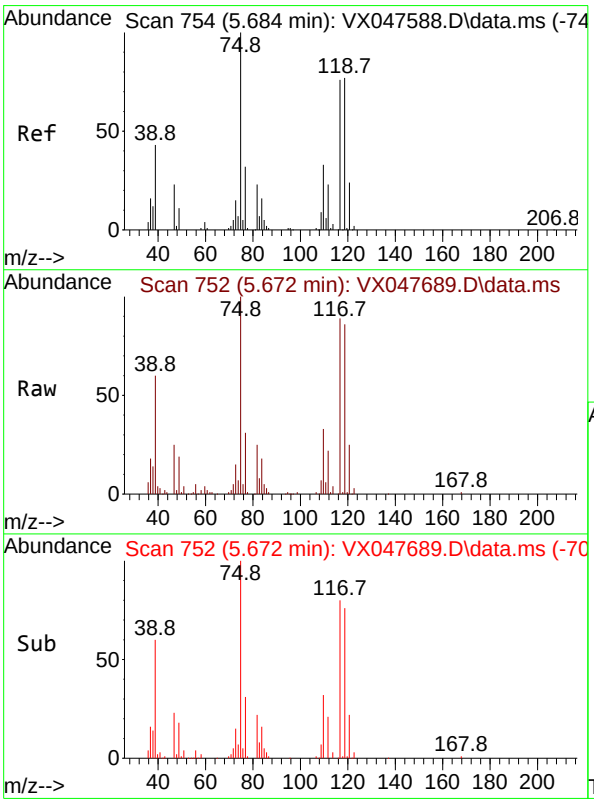
#35
Dibromofluoromethane
Concen: 54.164 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 118783

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	18.1	14.2	21.4

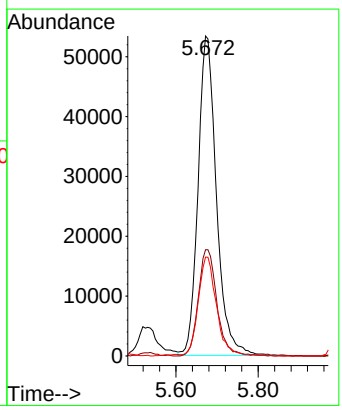


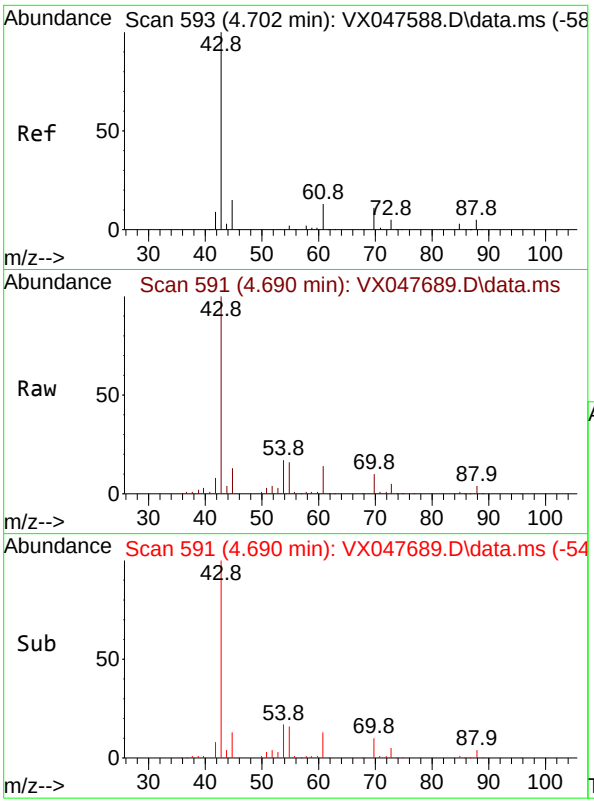


#36
1,1-Dichloropropene
Concen: 51.655 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 165531

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.7	50.1
77	30.8	24.3	36.5



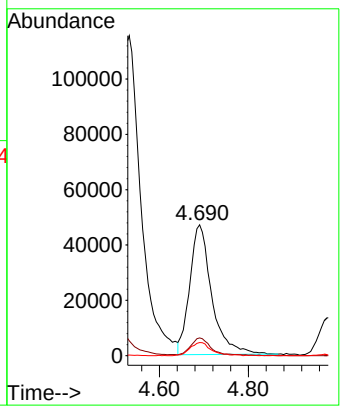


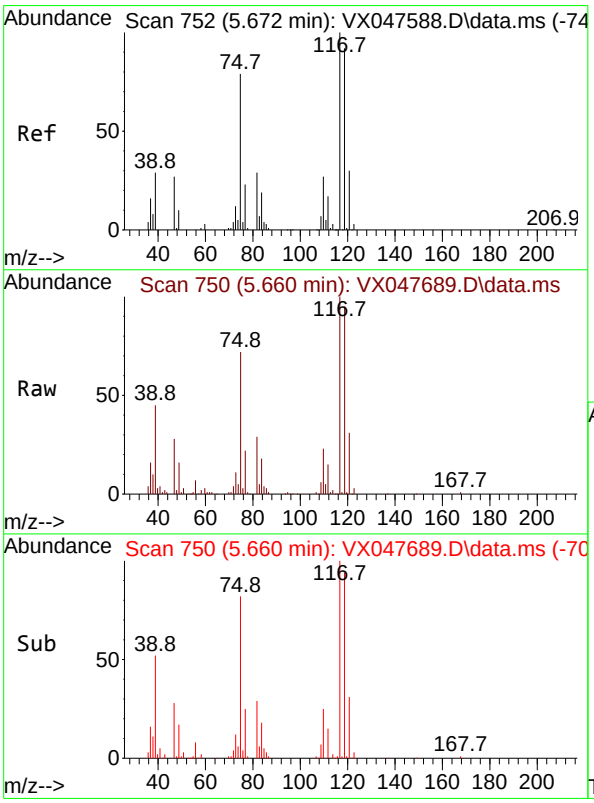
#37
Ethyl Acetate
Concen: 46.911 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 160957

Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.8	14.8
70	9.5	7.9	11.9

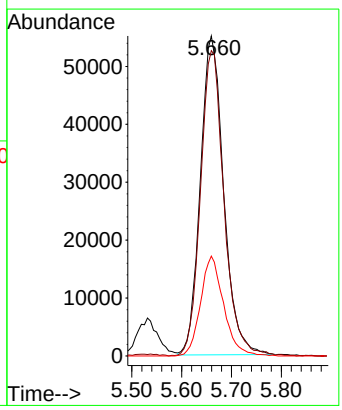


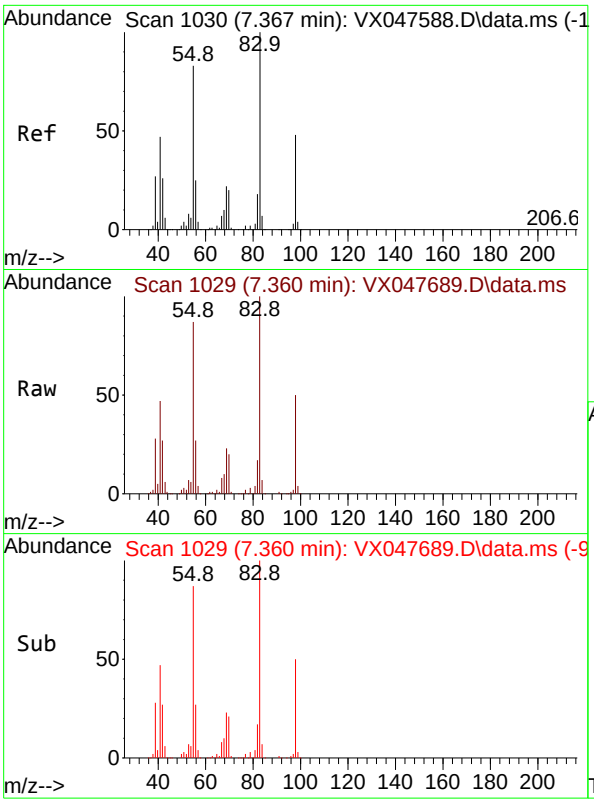


#38
Carbon Tetrachloride
Concen: 51.330 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:117 Resp: 178720

Ion	Ratio	Lower	Upper
117	100		
119	95.5	73.4	110.2
121	31.4	23.8	35.6



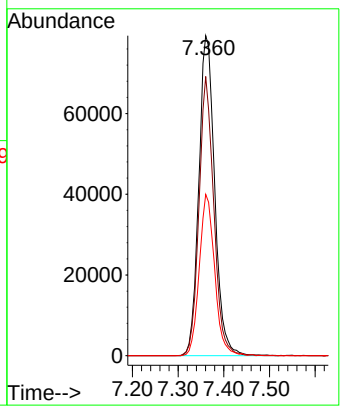


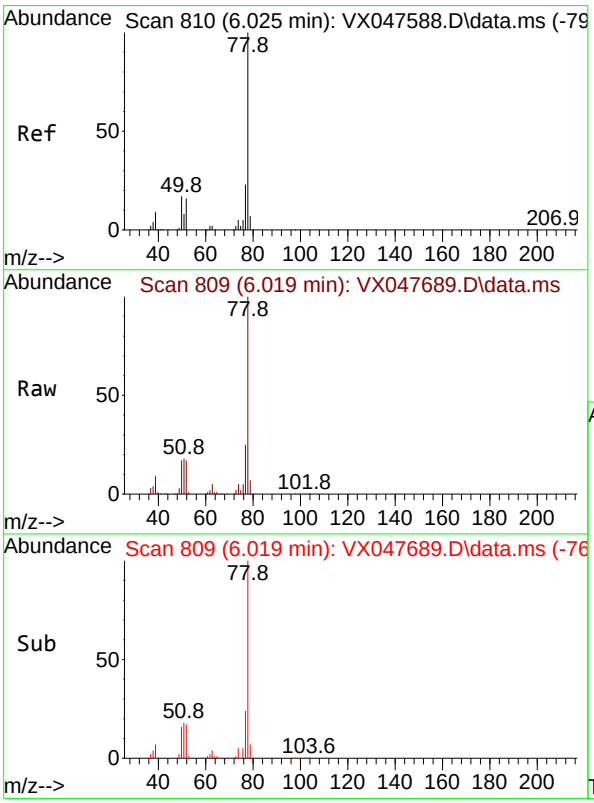
#39
Methylcyclohexane
Concen: 52.558 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 191182

Ion	Ratio	Lower	Upper
83	100		
55	87.3	66.4	99.6
98	50.4	38.1	57.1

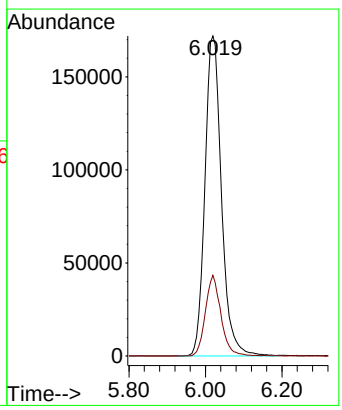


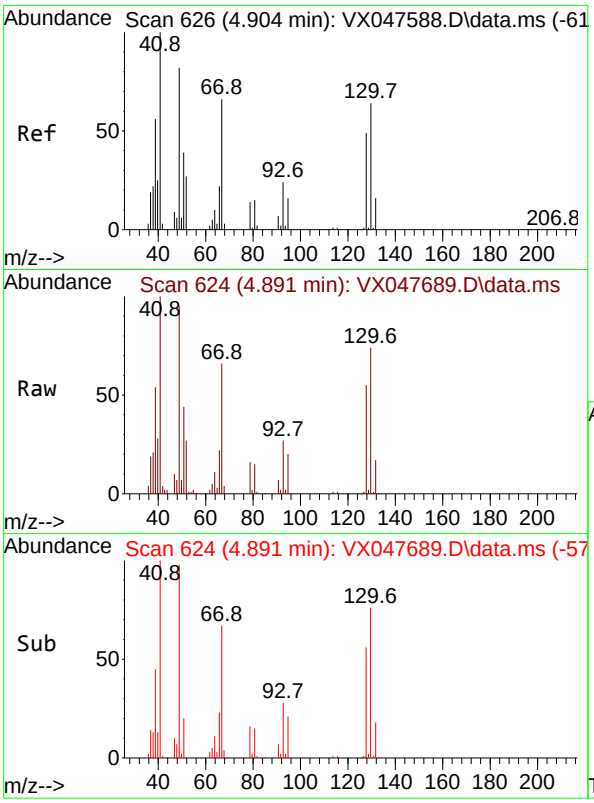


#40
Benzene
Concen: 53.017 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 78 Resp: 516015

Ion	Ratio	Lower	Upper
78	100		
77	25.2	18.8	28.2



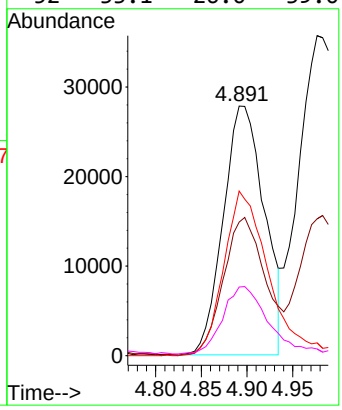


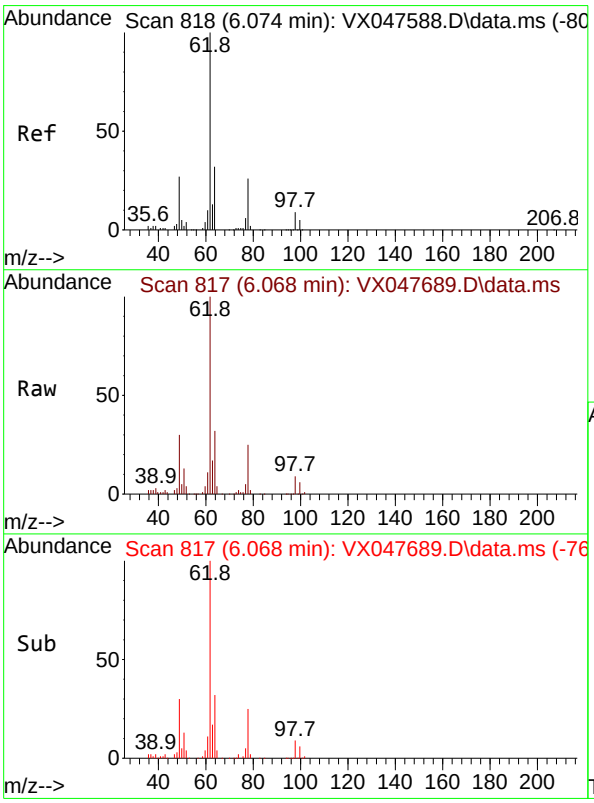
#41
Methacrylonitrile
Concen: 49.191 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 87133

Ion	Ratio	Lower	Upper
41	100		
39	57.4	43.3	64.9
67	73.7	58.6	87.8
52	33.1	26.0	39.0

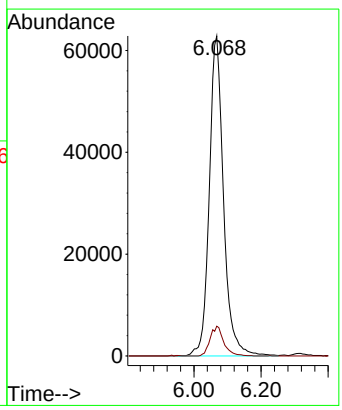


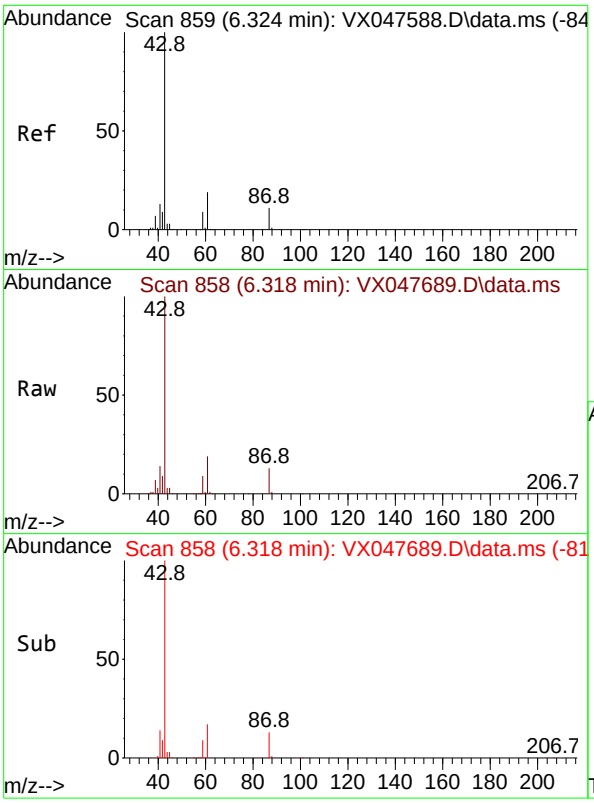


#42
1,2-Dichloroethane
Concen: 50.055 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 62 Resp: 185367

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.0



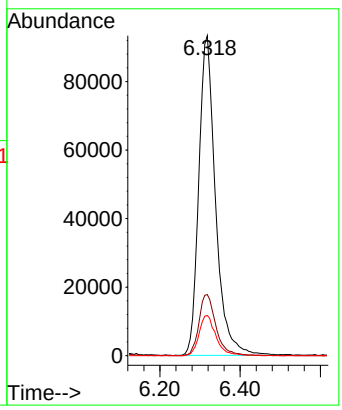


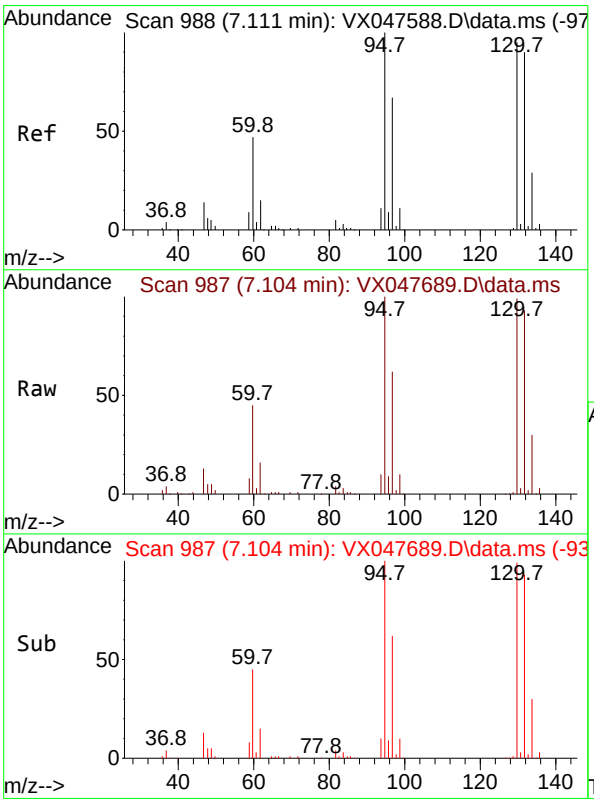
#43
Isopropyl Acetate
Concen: 48.067 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 270484

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.2	22.8
87	12.6	9.6	14.4

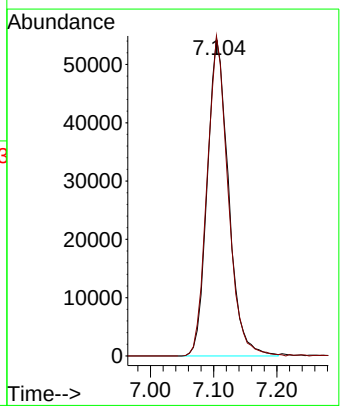


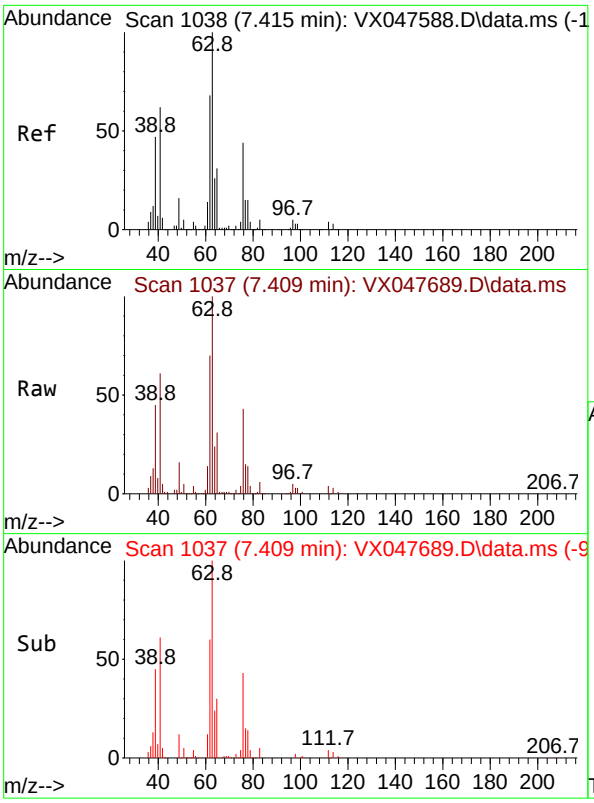


#44
Trichloroethene
Concen: 53.976 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:130 Resp: 127009

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	210.8



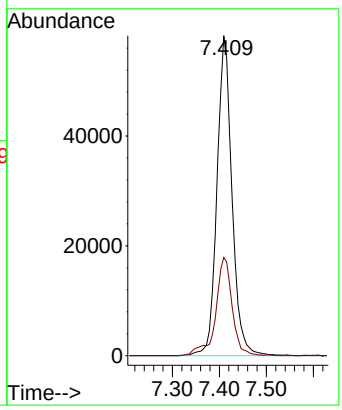


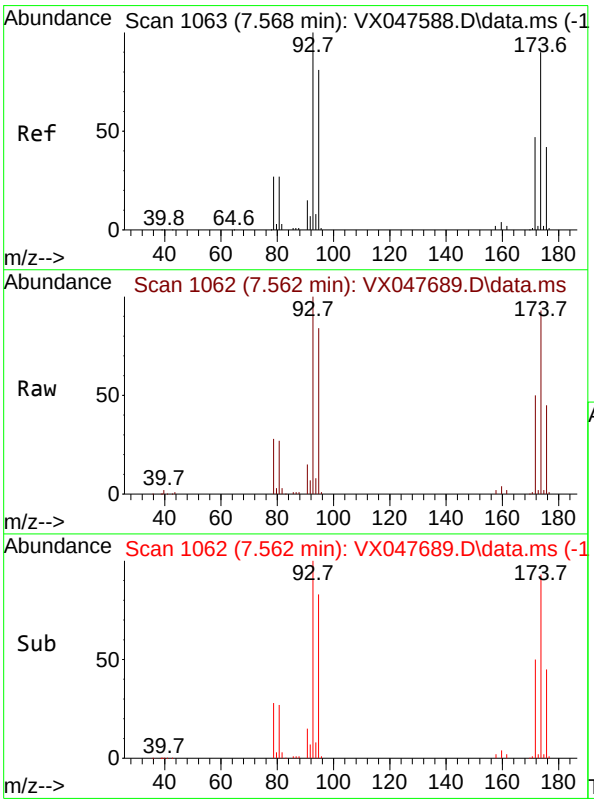
#45
1,2-Dichloropropane
Concen: 51.965 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 129510

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

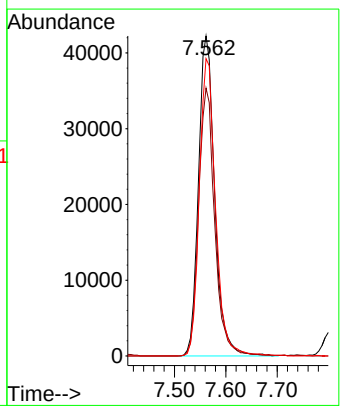


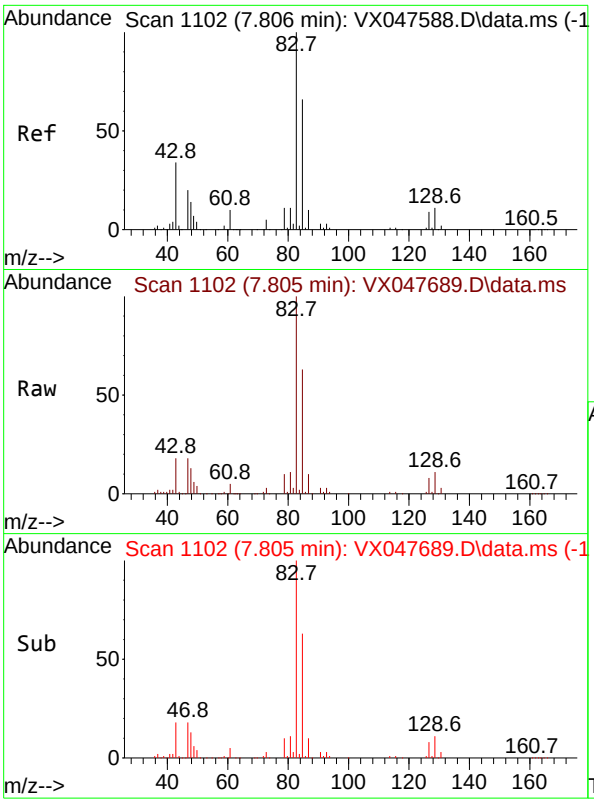


#46
Dibromomethane
Concen: 50.950 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 93 Resp: 92404

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.0	97.6
174	92.9	71.6	107.4



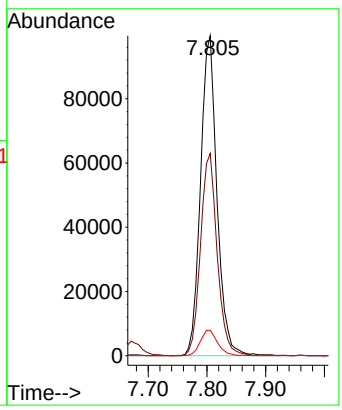


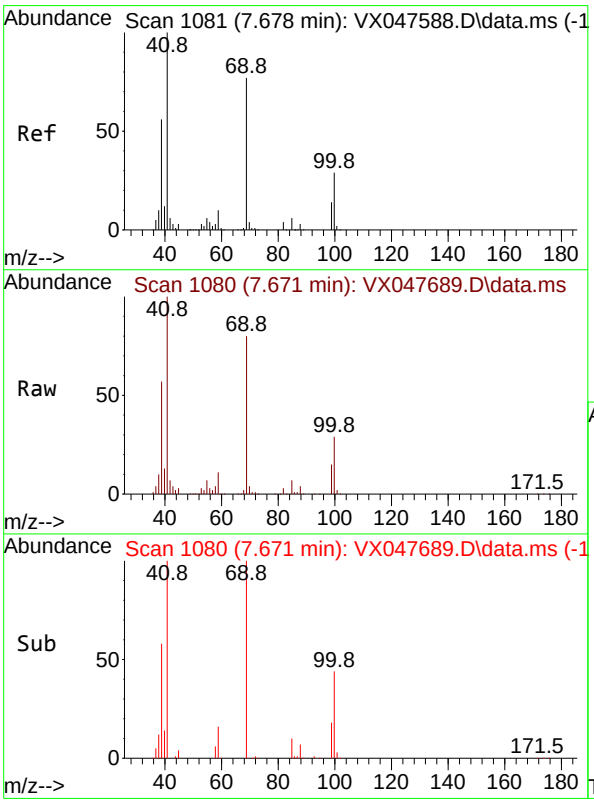
#47
Bromodichloromethane
Concen: 51.822 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 193942

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.5	78.7
127	8.0	6.9	10.3

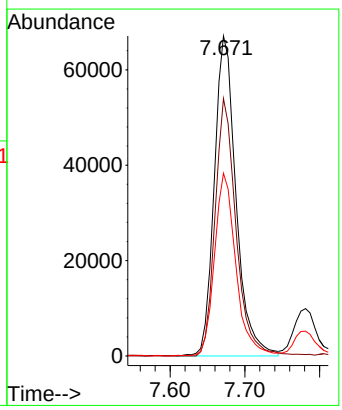


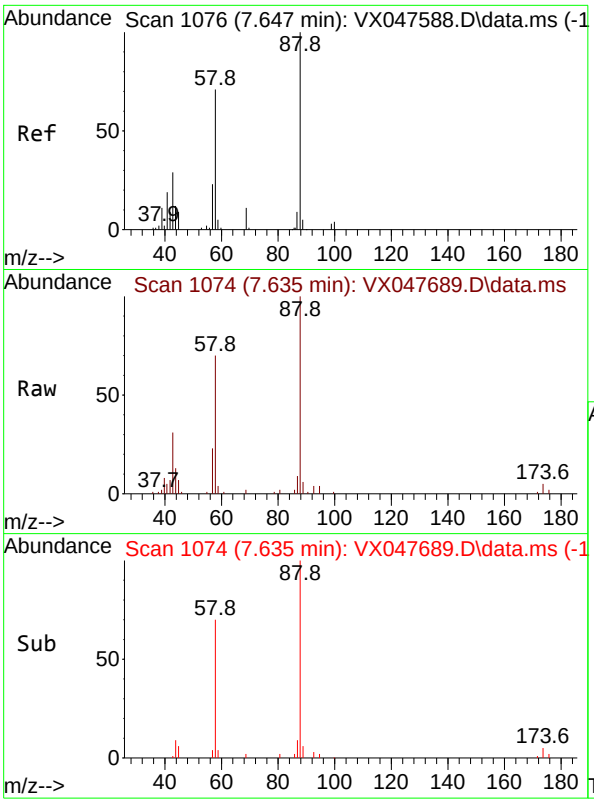


#48
Methyl methacrylate
Concen: 48.497 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 41 Resp: 135938

Ion	Ratio	Lower	Upper
41	100		
69	77.8	61.4	92.2
39	56.3	45.8	68.6



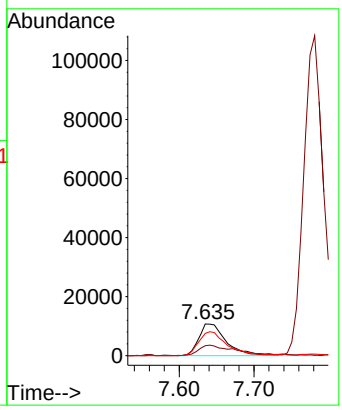


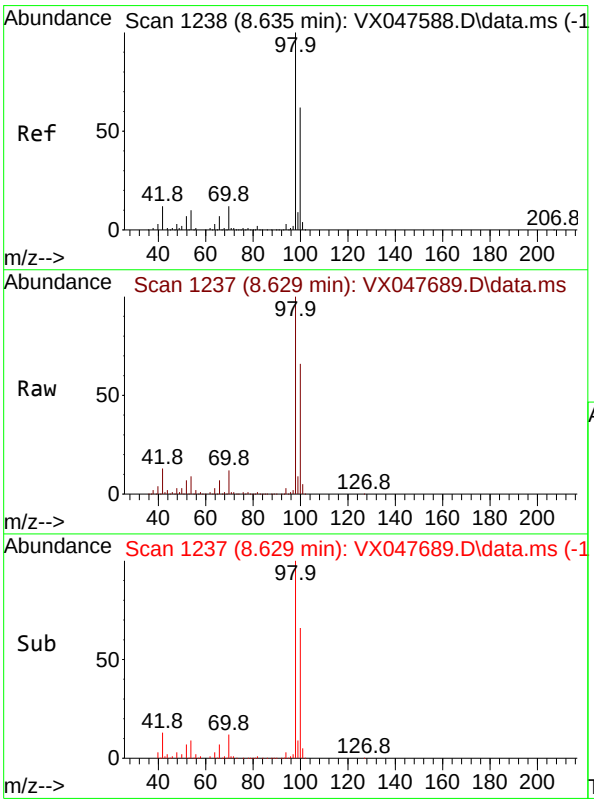
#49
1,4-Dioxane
Concen: 983.820 ug/l
RT: 7.635 min Scan# 1
Delta R.T. -0.012 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 27869

Ion	Ratio	Lower	Upper
88	100		
43	41.5	30.2	45.2
58	80.3	59.5	89.3

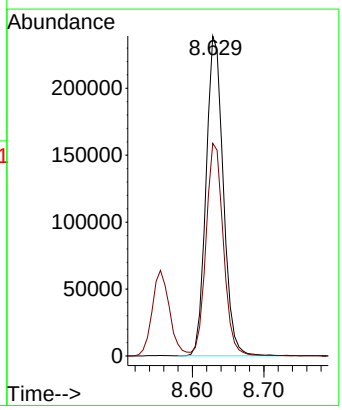


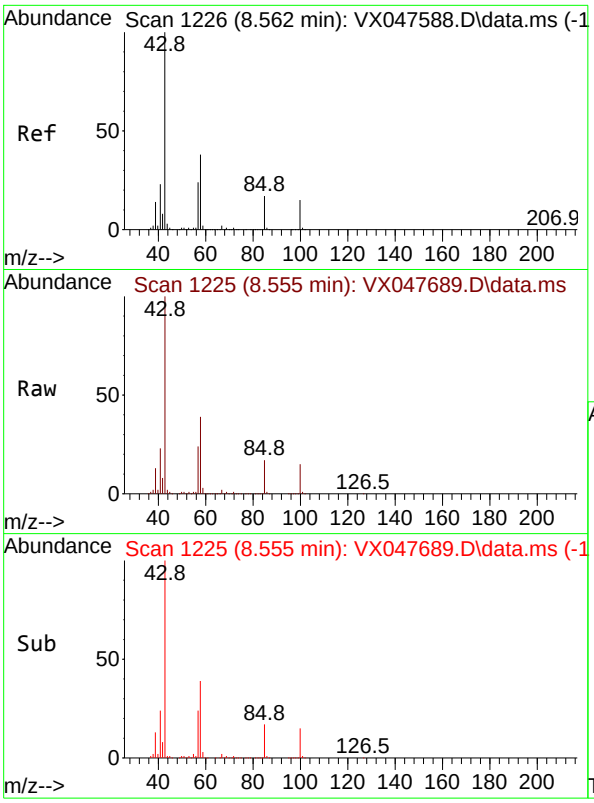


#50
Toluene-d8
Concen: 52.523 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 98 Resp: 398559

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4



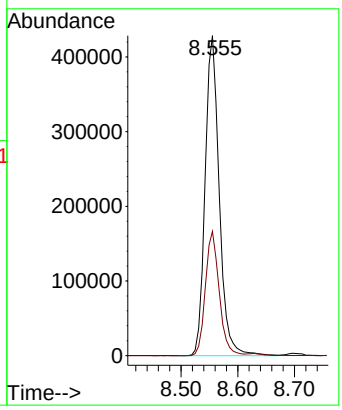


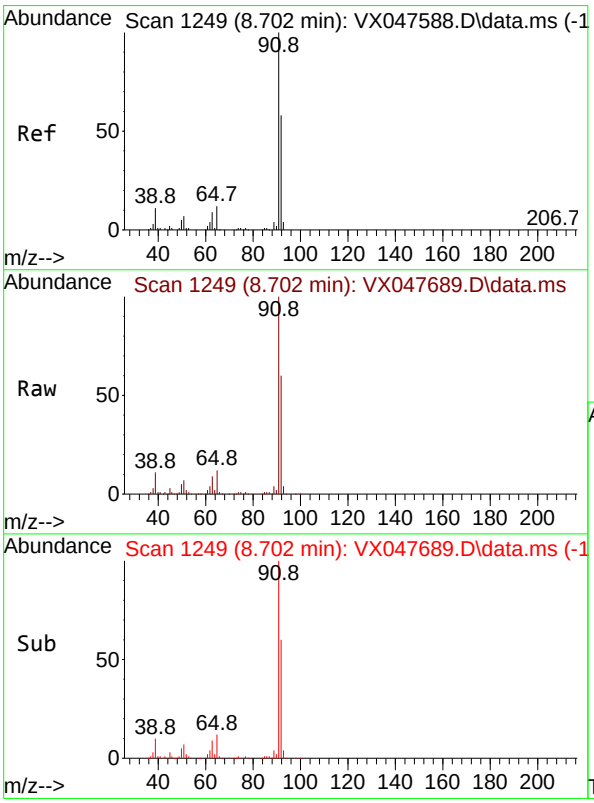
#51
4-Methyl-2-Pentanone
Concen: 237.947 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 742395

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5

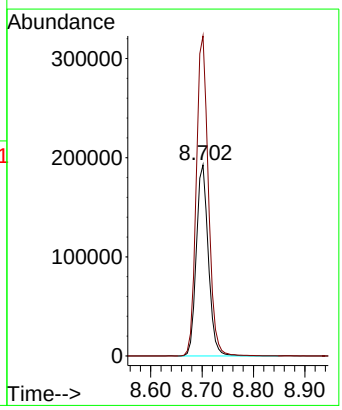


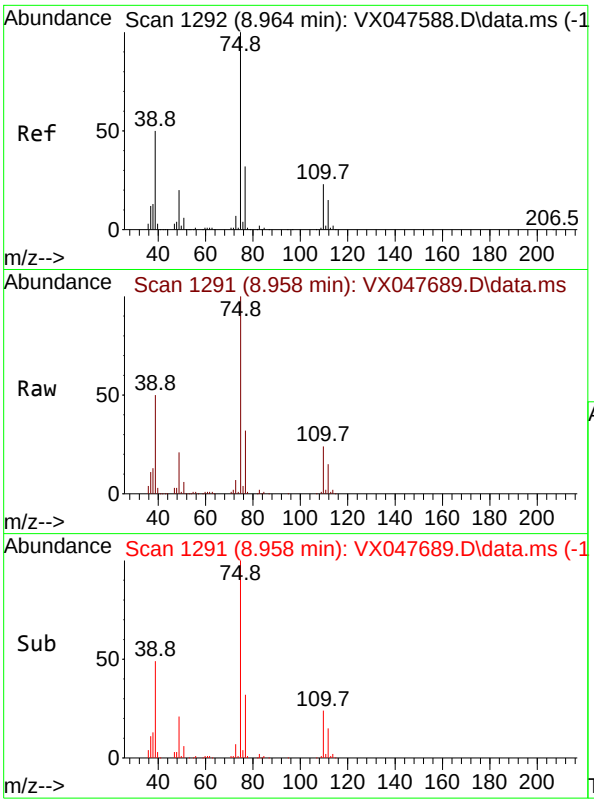


#52
Toluene
Concen: 52.243 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 92 Resp: 313273

Ion	Ratio	Lower	Upper
92	100		
91	168.4	137.1	205.7



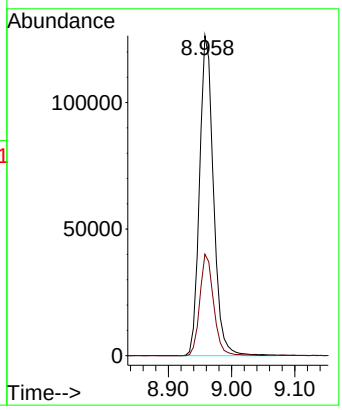


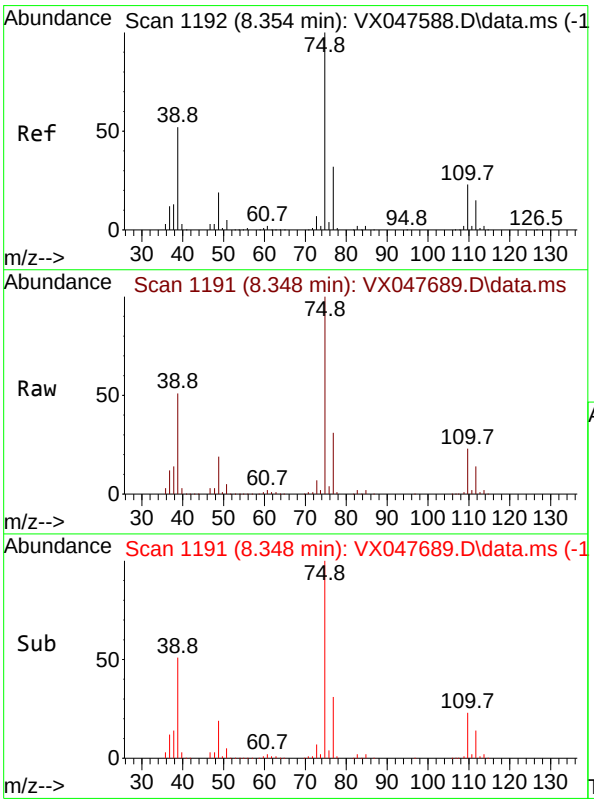
#53
t-1,3-Dichloropropene
Concen: 50.900 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 194304

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2

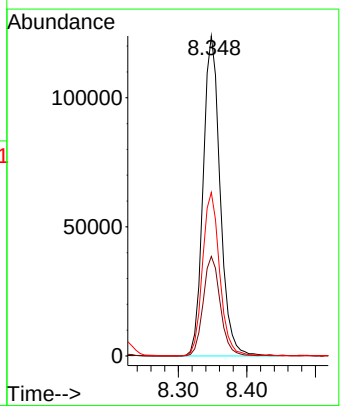


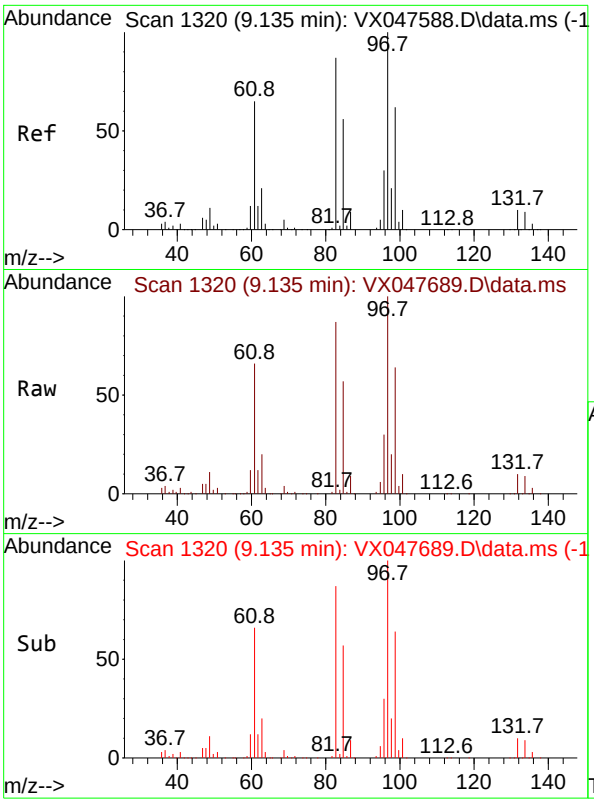


#54
cis-1,3-Dichloropropene
Concen: 52.459 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 214043

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.8	38.6
39	50.5	41.4	62.2



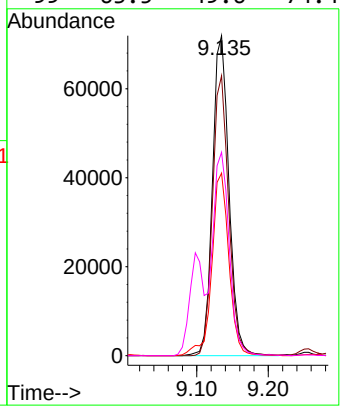


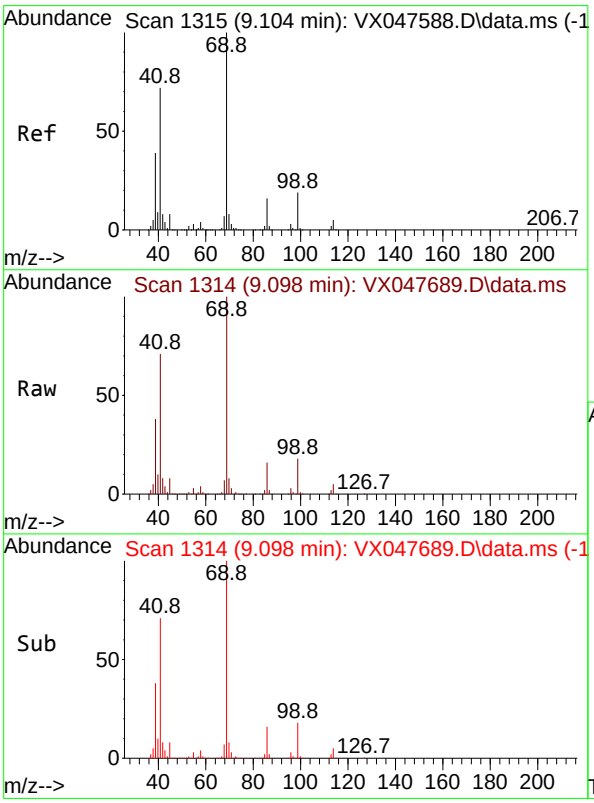
#55
1,1,2-Trichloroethane
Concen: 49.721 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 114964

Ion	Ratio	Lower	Upper
97	100		
83	87.4	69.6	104.4
85	57.0	45.0	67.6
99	63.5	49.6	74.4

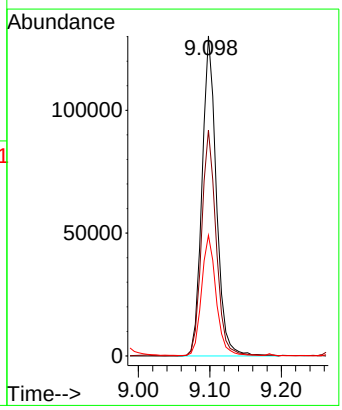


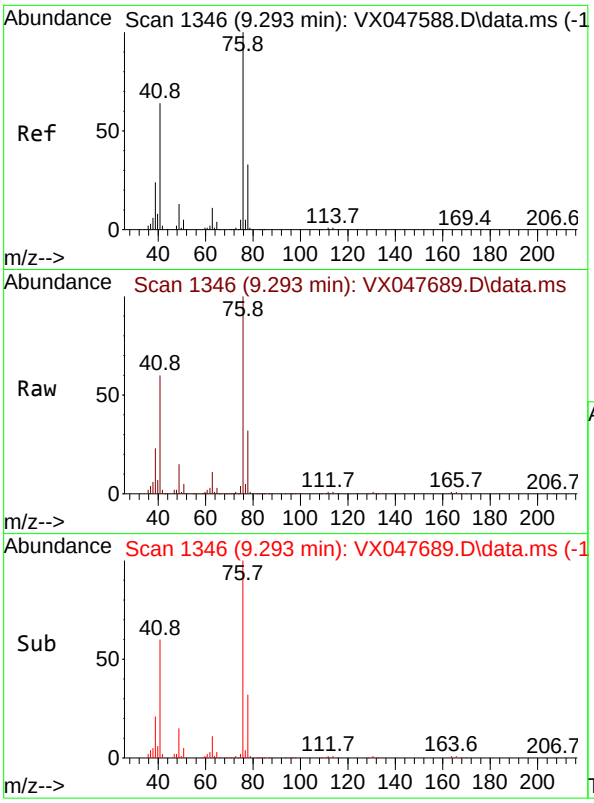


#56
Ethyl methacrylate
Concen: 50.070 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 69 Resp: 181815

Ion	Ratio	Lower	Upper
69	100		
41	71.1	58.6	87.8
39	37.9	31.5	47.3



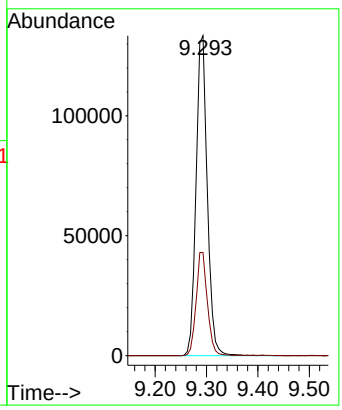


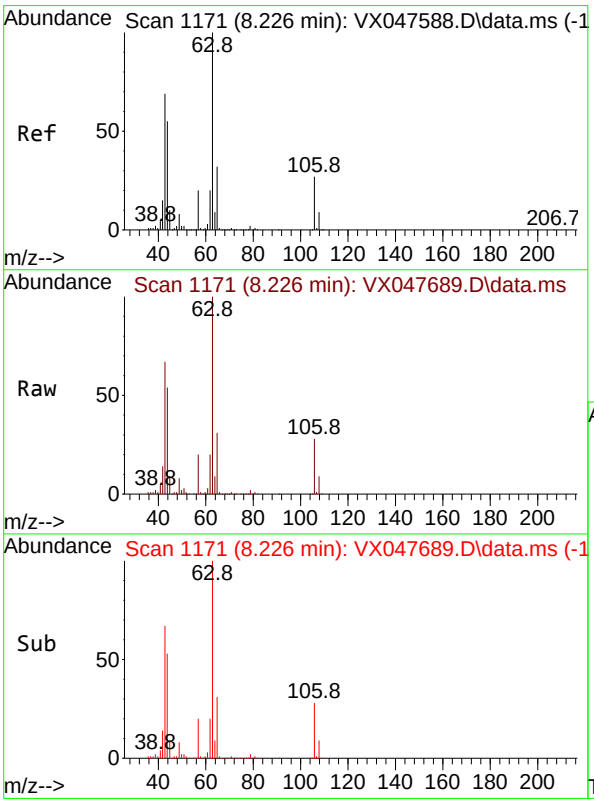
#57
1,3-Dichloropropane
Concen: 51.053 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 202781

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4

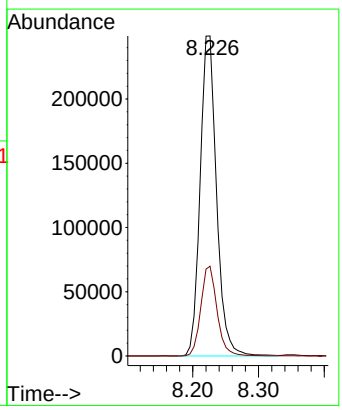


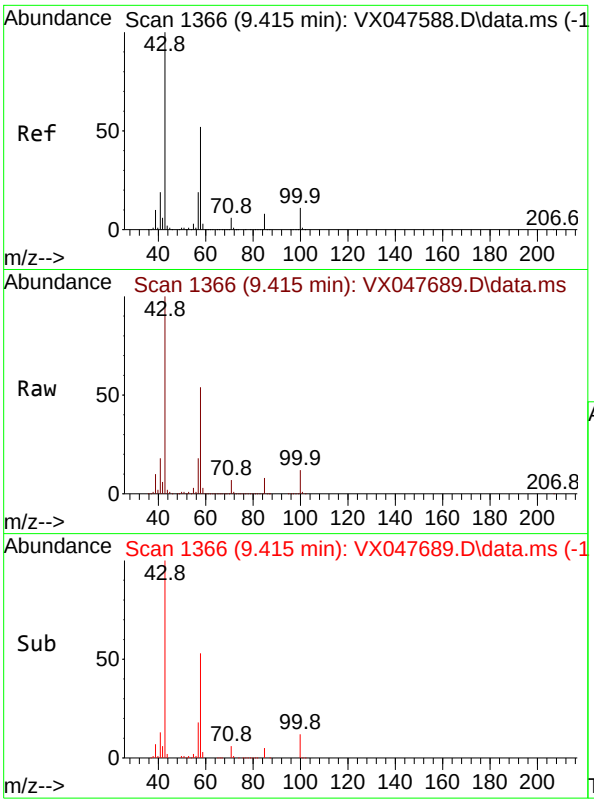


#58
2-Chloroethyl Vinyl ether
Concen: 249.751 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 63 Resp: 433231

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.9	32.9



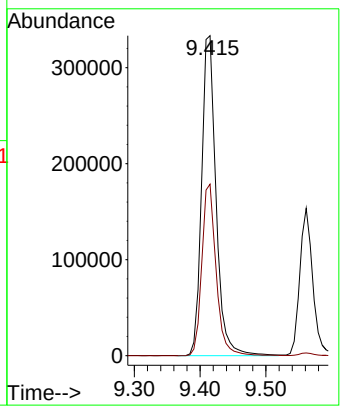


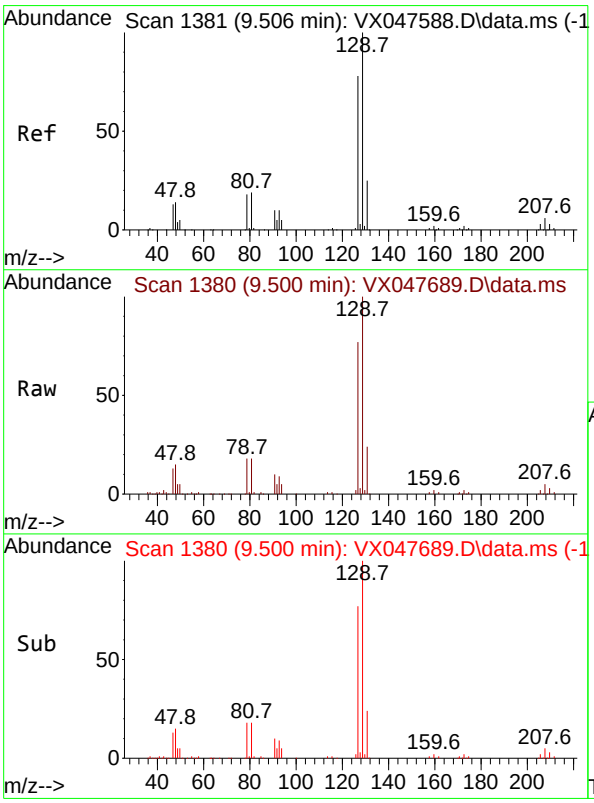
#59
2-Hexanone
Concen: 227.437 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 509641

Ion	Ratio	Lower	Upper
43	100		
58	53.1	26.1	78.2

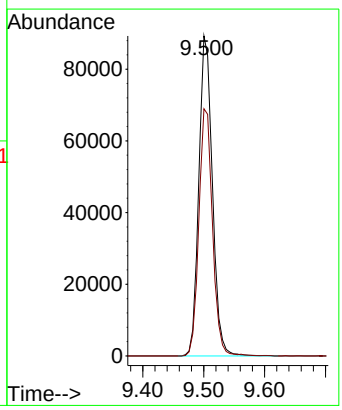


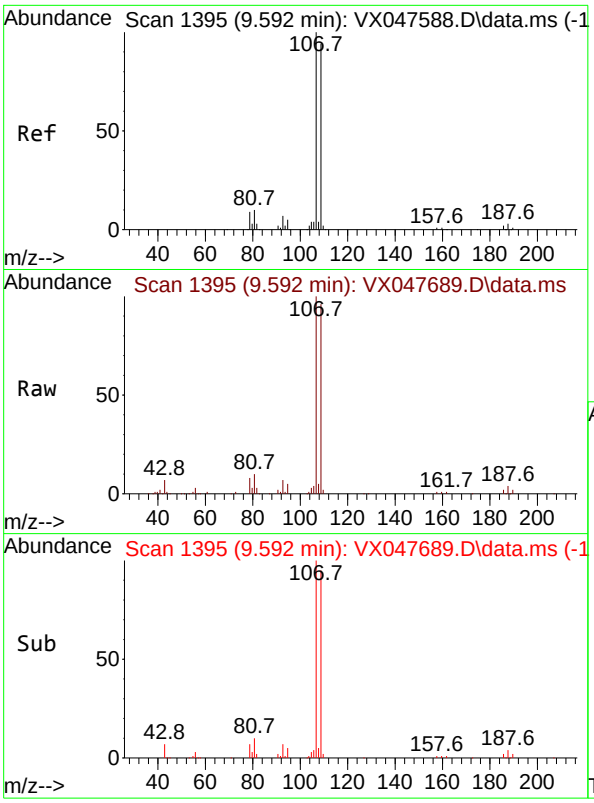


#60
Dibromochloromethane
Concen: 51.886 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:129 Resp: 138233

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.4	115.2



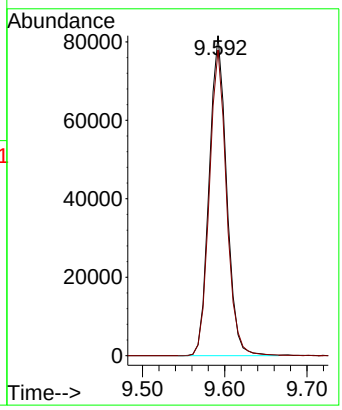


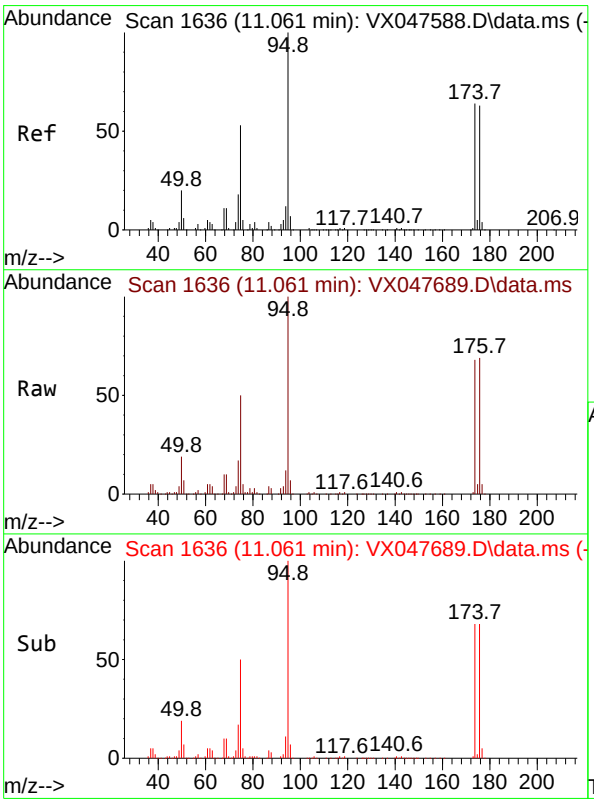
#61
1,2-Dibromoethane
Concen: 51.062 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 120255

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.3	112.9

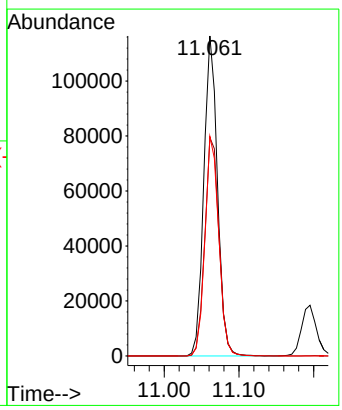


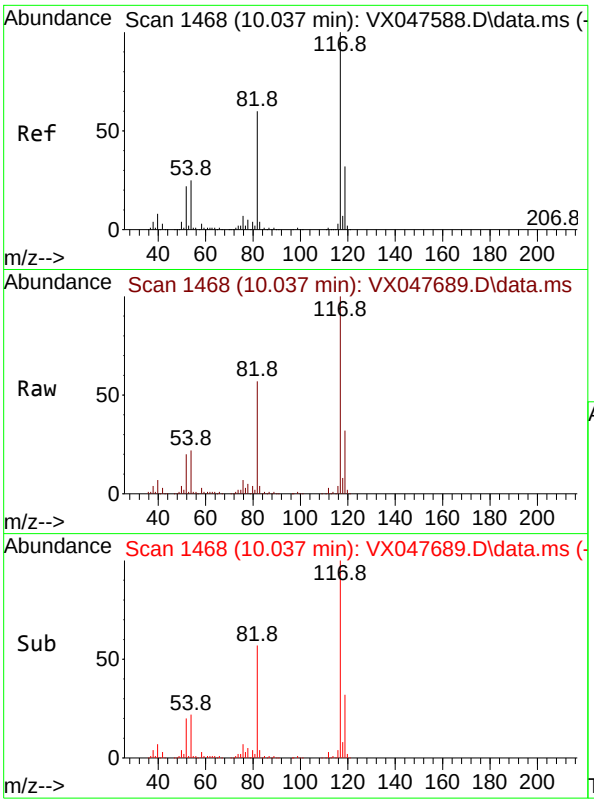


#62
4-Bromofluorobenzene
Concen: 51.184 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 95 Resp: 147405

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	141.6
176	69.5	0.0	138.4



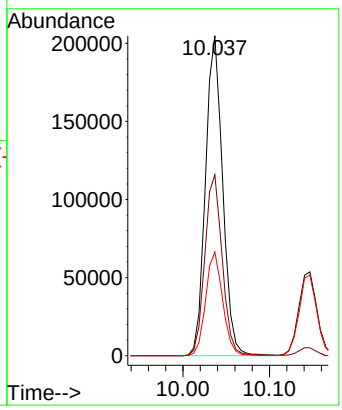


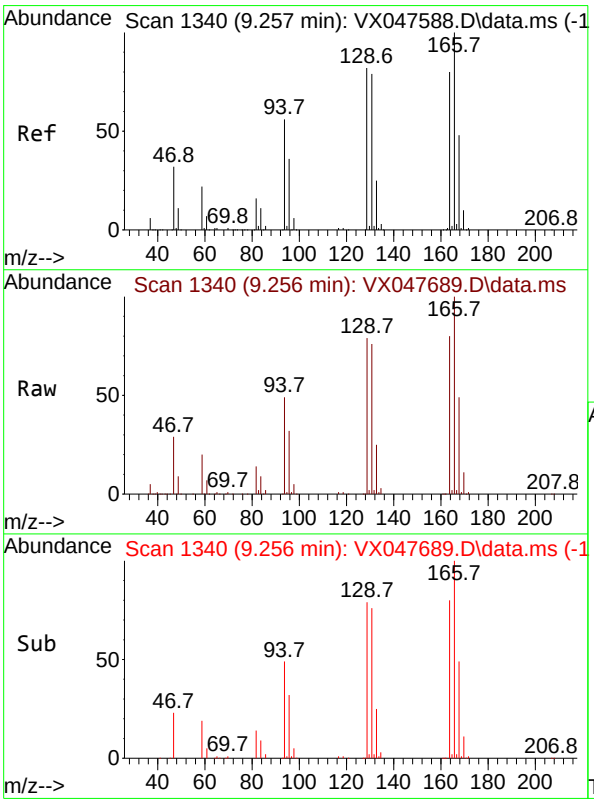
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 282237

Ion	Ratio	Lower	Upper
117	100		
82	56.6	47.8	71.6
119	32.5	25.2	37.8

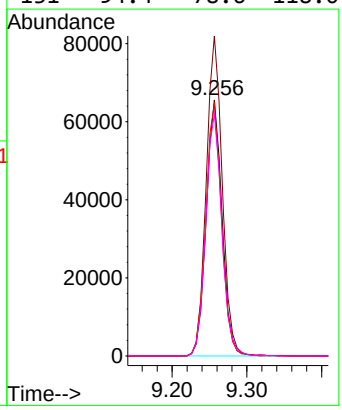


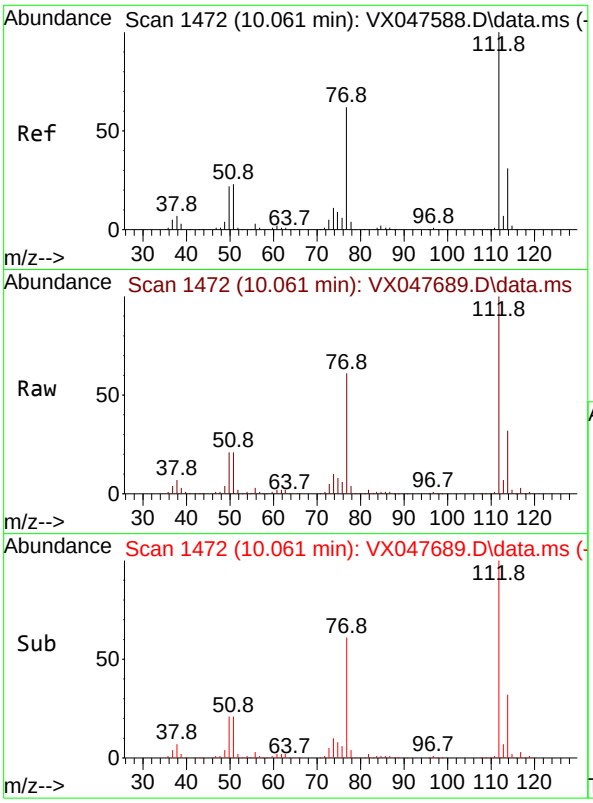


#64
Tetrachloroethene
Concen: 52.674 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:164 Resp: 96914

Ion	Ratio	Lower	Upper
164	100		
166	125.0	100.2	150.2
129	98.5	81.8	122.6
131	94.4	78.6	118.0



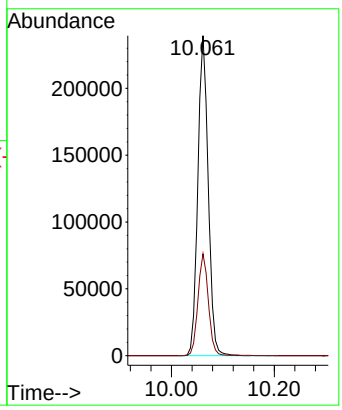


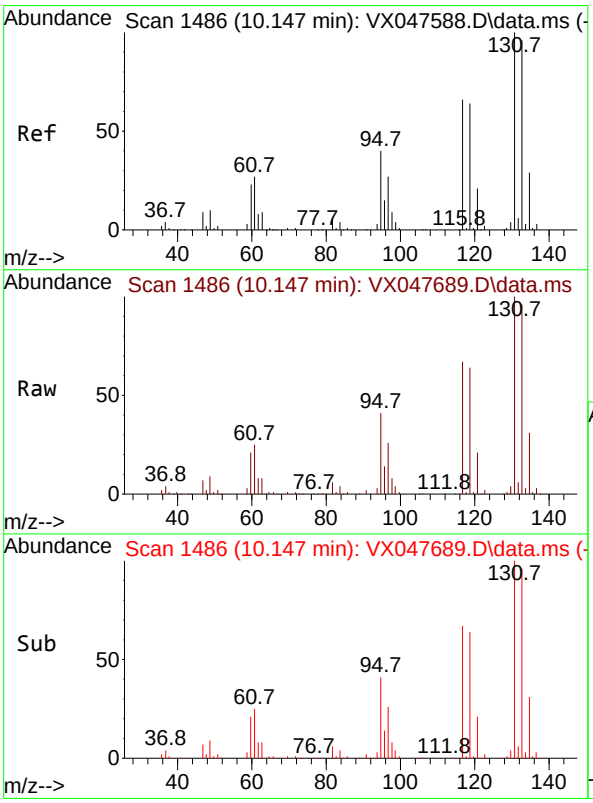
#65
Chlorobenzene
Concen: 52.373 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 335812

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7

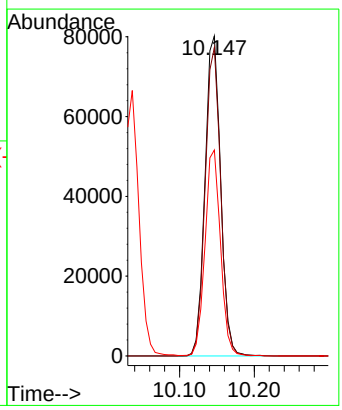


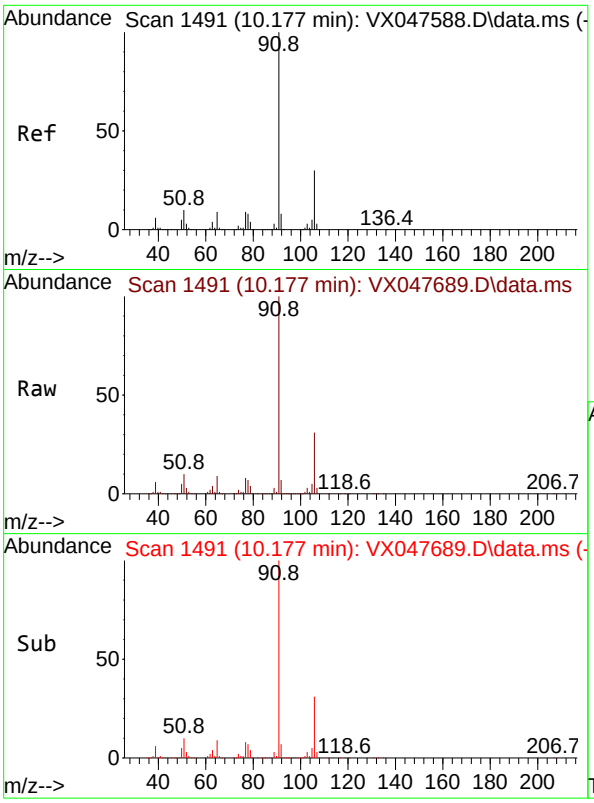


#66
1,1,1,2-Tetrachloroethane
Concen: 52.773 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:131 Resp: 116763

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	142.0
119	63.9	32.0	96.0



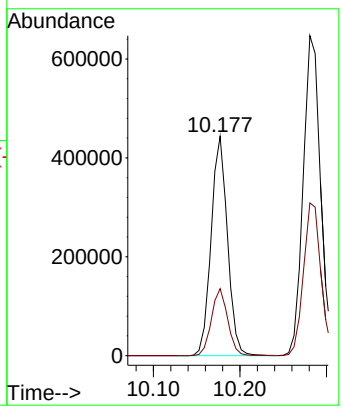


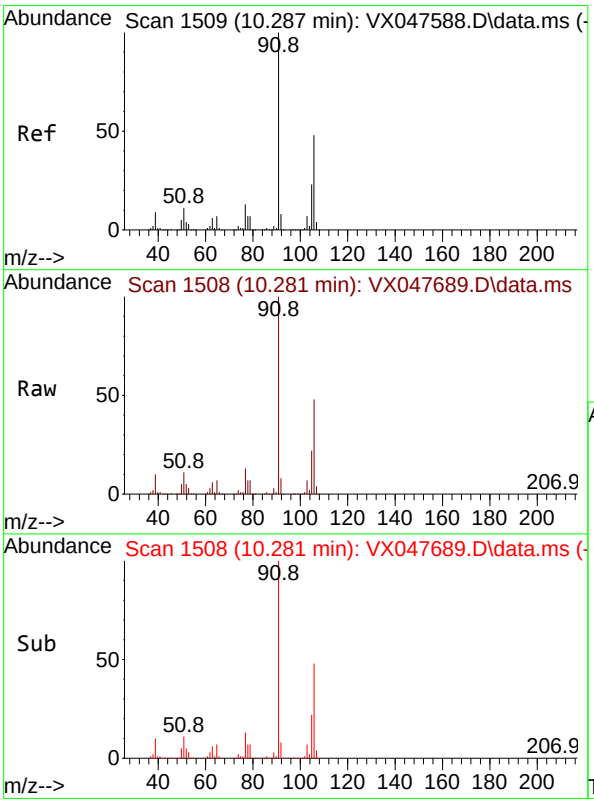
#67
Ethyl Benzene
Concen: 52.587 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 581779

Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.3	36.5

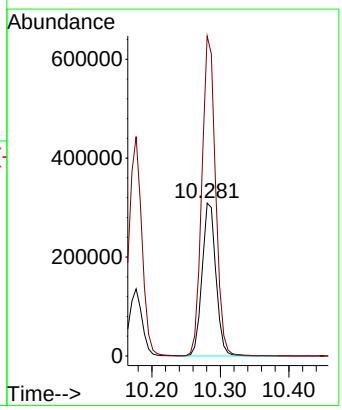


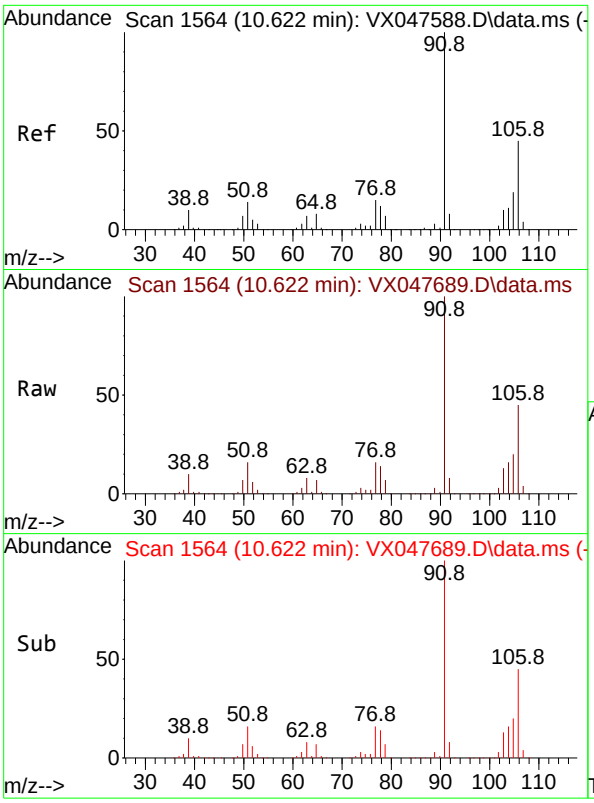


#68
m/p-Xylenes
Concen: 105.410 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:106 Resp: 434058

Ion	Ratio	Lower	Upper
106	100		
91	207.6	167.8	251.8



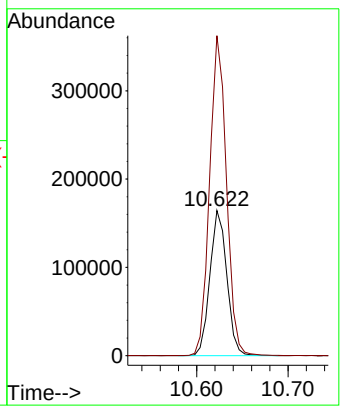


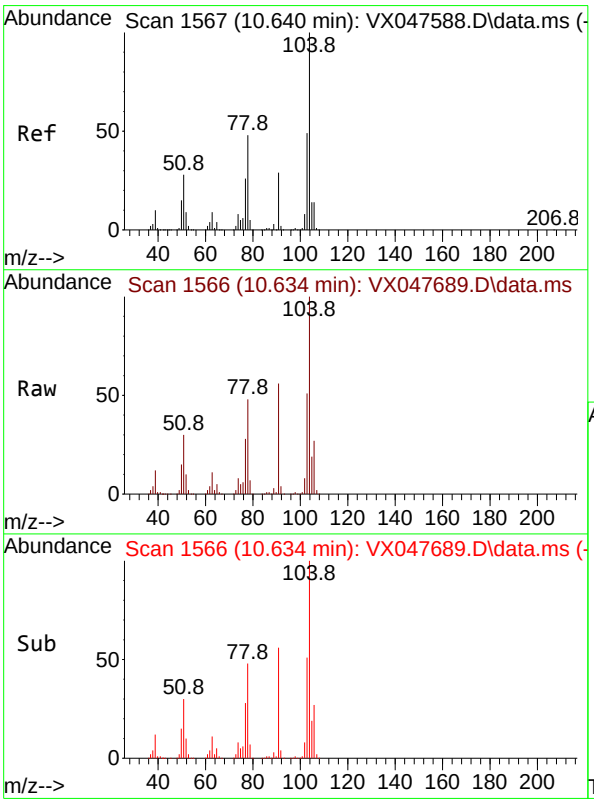
#69
o-Xylene
Concen: 53.057 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 211322

Ion	Ratio	Lower	Upper
106	100		
91	218.6	111.1	333.4

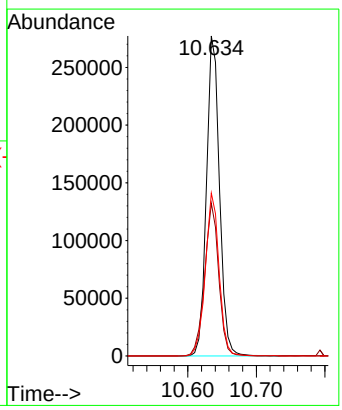


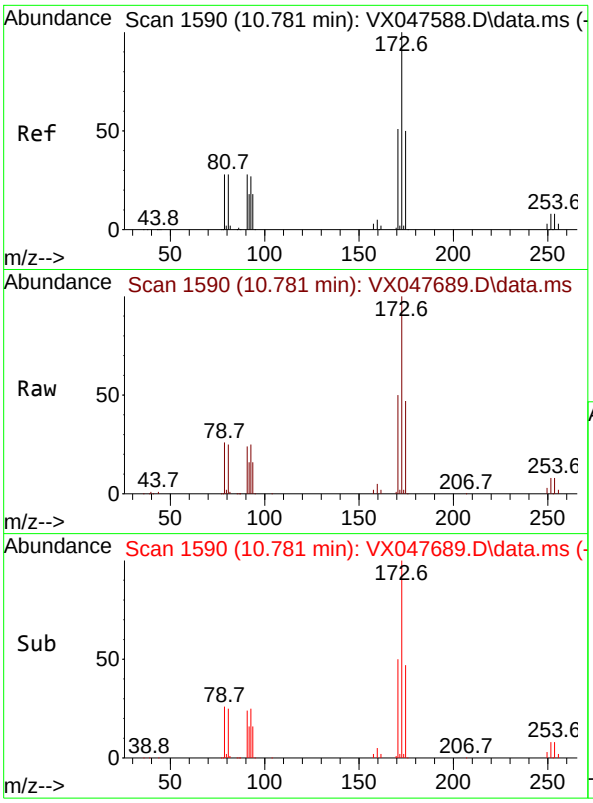


#70
Styrene
Concen: 52.550 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:104 Resp: 366737

Ion	Ratio	Lower	Upper
104	100		
78	51.7	43.1	64.7
103	53.9	43.1	64.7



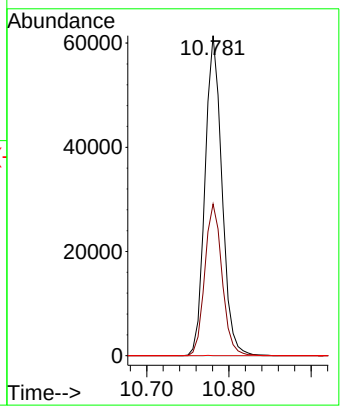


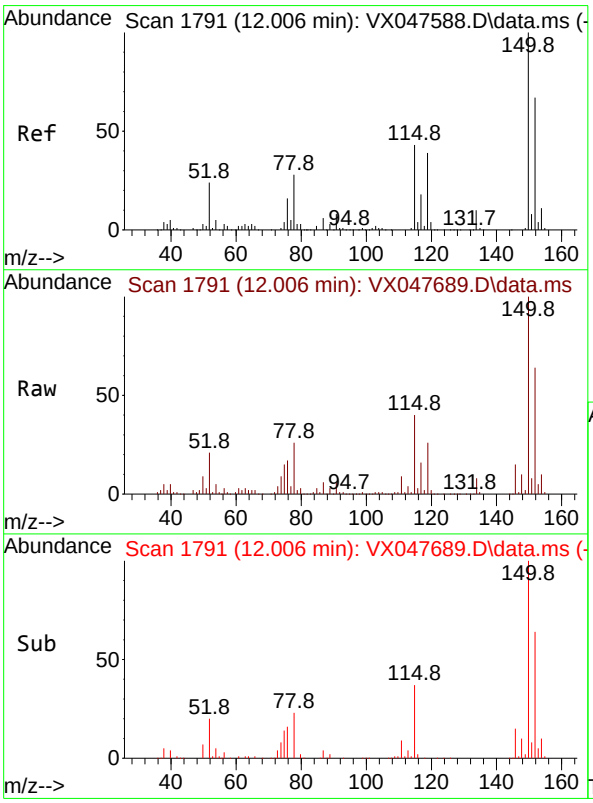
#71
Bromoform
Concen: 53.124 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 87766

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.9	74.6
254	0.0	0.1	0.1#

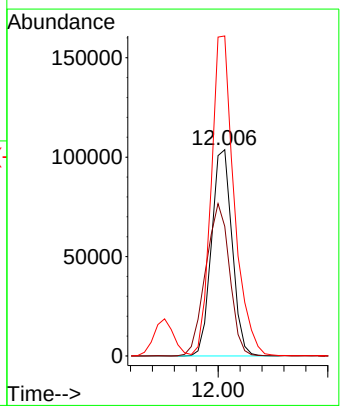


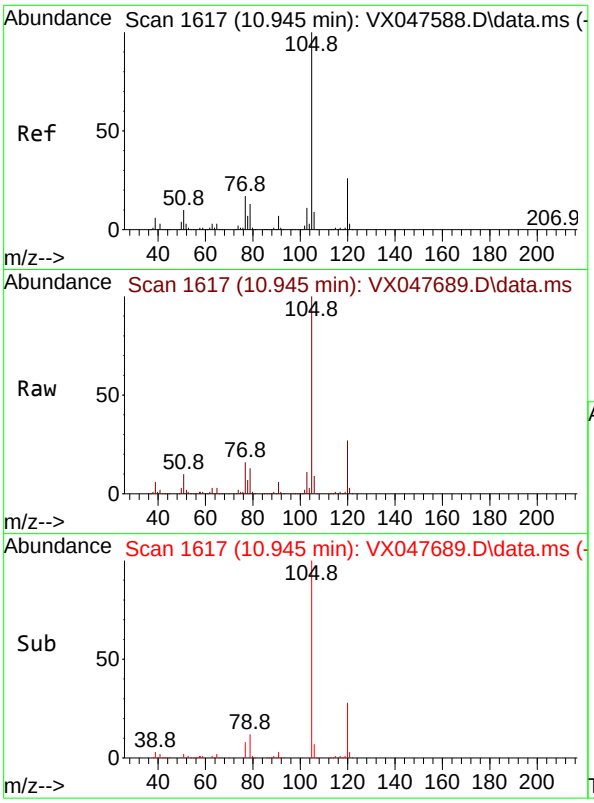


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:152 Resp: 135594

Ion	Ratio	Lower	Upper
152	100		
115	85.7	44.9	134.5
150	172.0	0.0	352.0



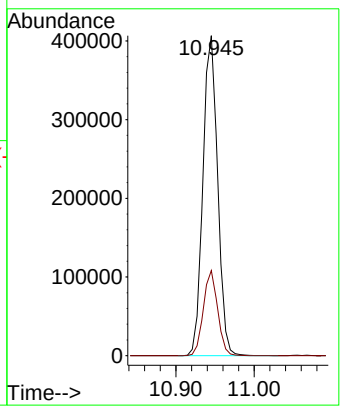


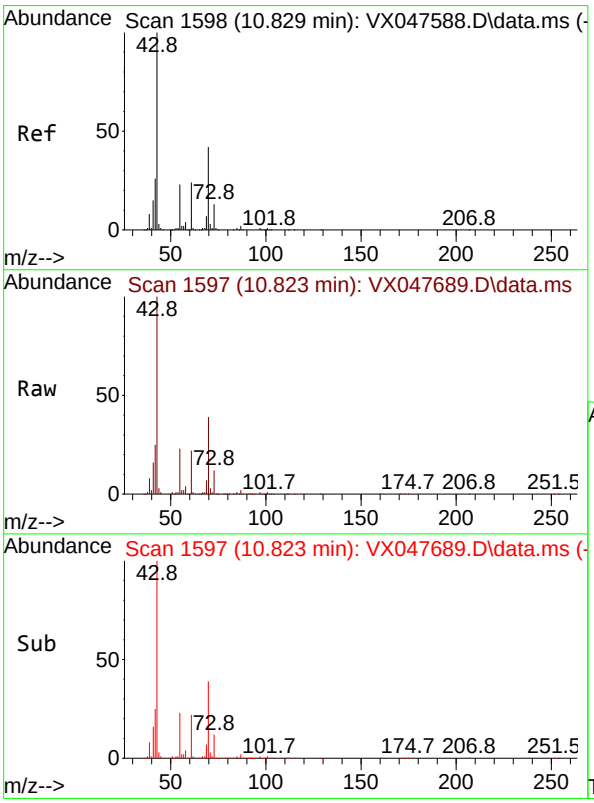
#73
Isopropylbenzene
Concen: 51.399 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 529861

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.4

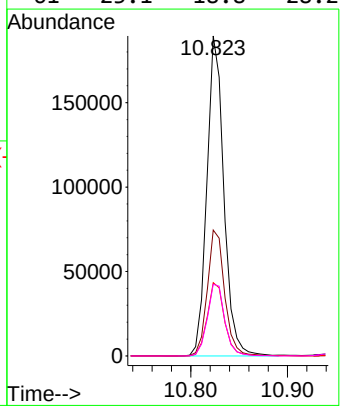


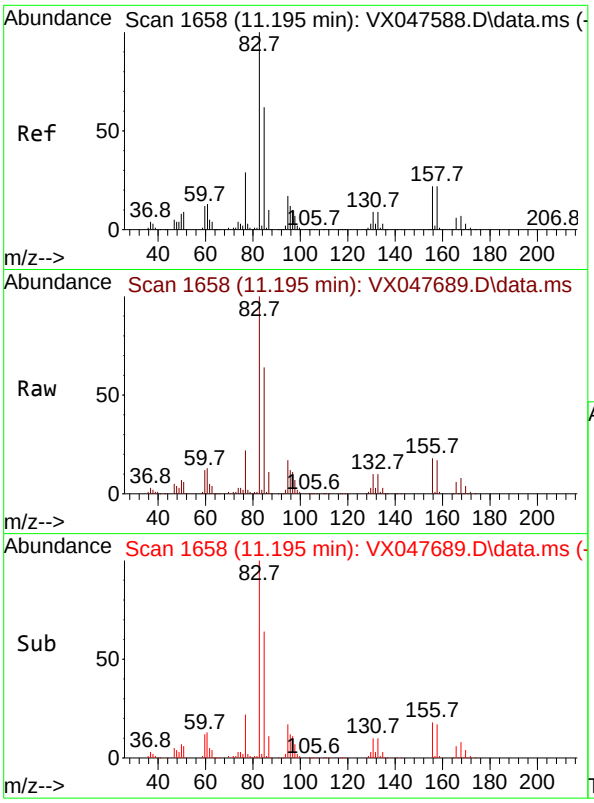


#74
N-amyl acetate
Concen: 49.332 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 43 Resp: 231908

Ion	Ratio	Lower	Upper
43	100		
70	40.4	32.0	48.0
55	23.6	18.9	28.3
61	23.1	18.8	28.2



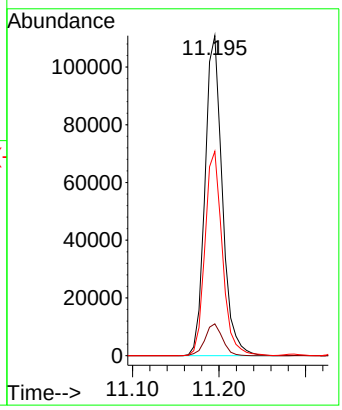


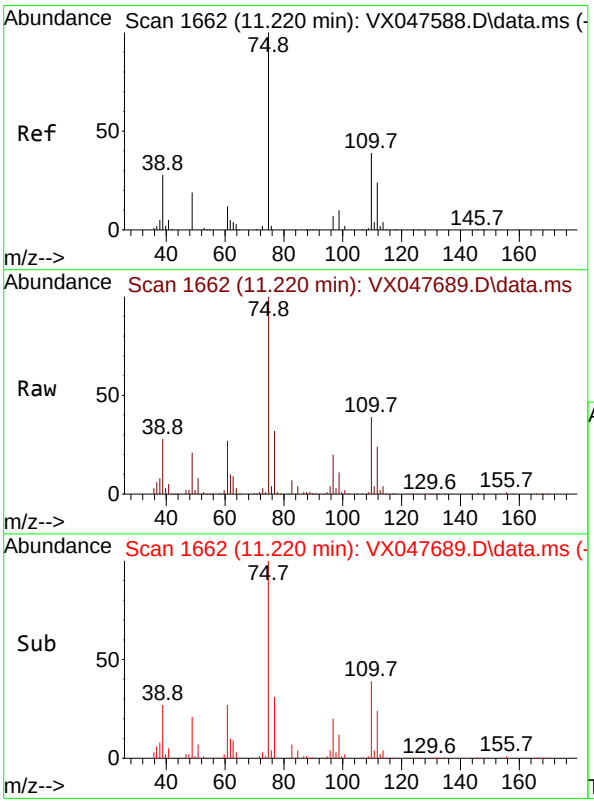
#75
1,1,2,2-Tetrachloroethane
Concen: 49.211 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 153486

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	64.2	31.6	95.0

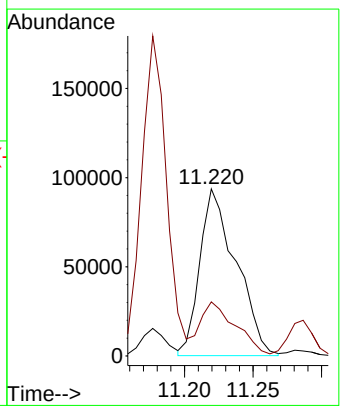


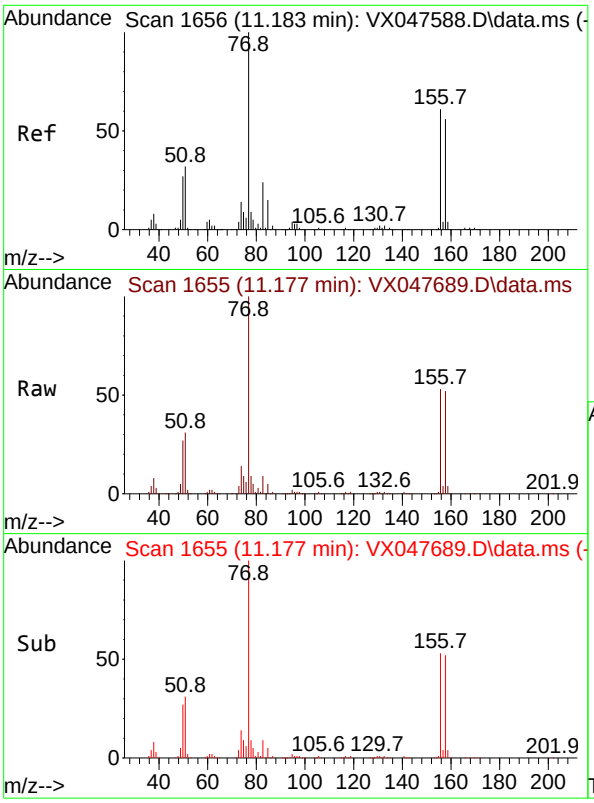


#76
1,2,3-Trichloropropane
Concen: 62.828 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 172485

Ion	Ratio	Lower	Upper
75	100		
77	32.2	18.8	56.4



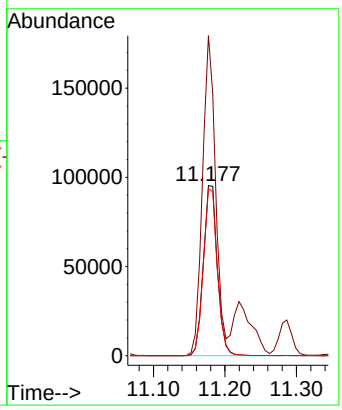


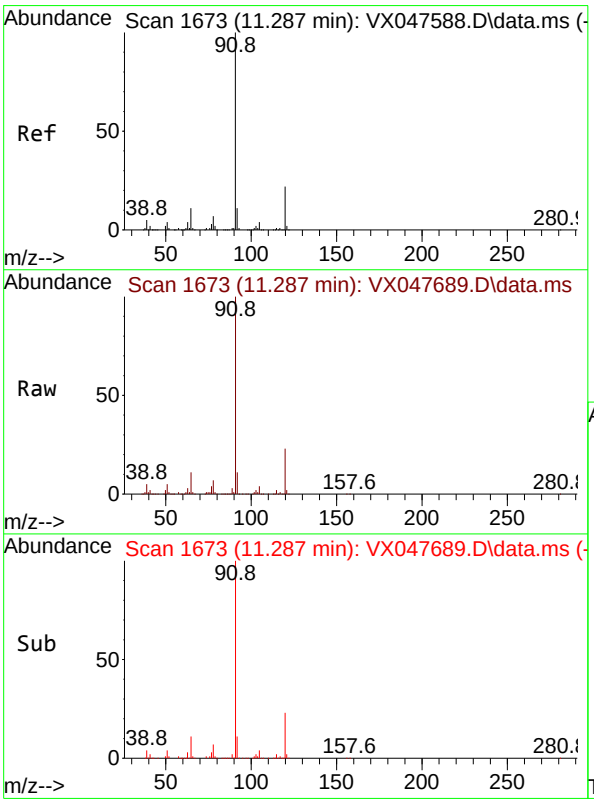
#77
Bromobenzene
Concen: 51.207 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 130012

Ion	Ratio	Lower	Upper
156	100		
77	175.2	89.7	269.1
158	98.1	47.9	143.6

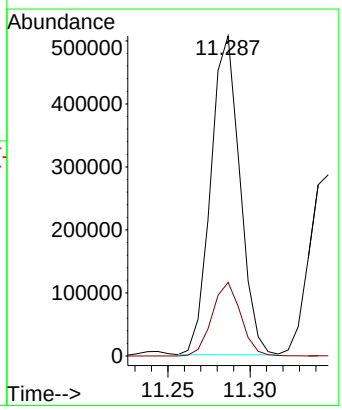


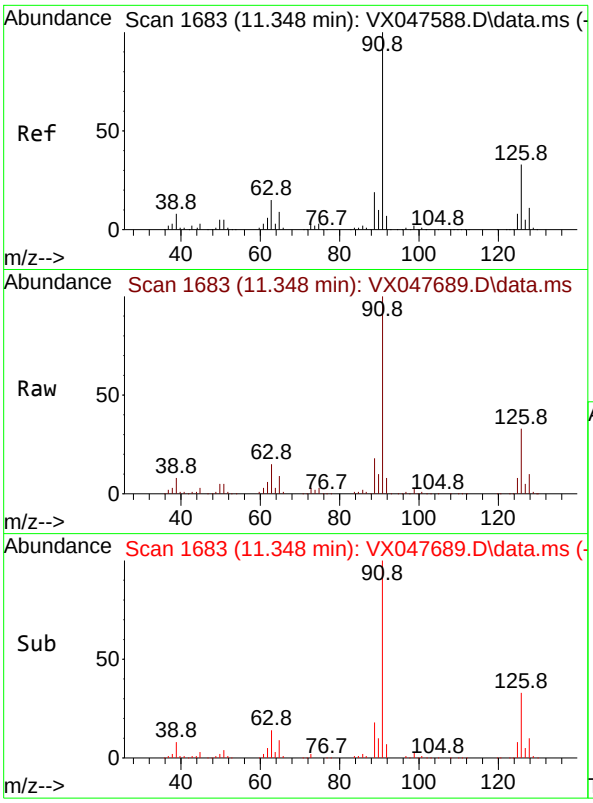


#78
n-propylbenzene
Concen: 51.190 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 91 Resp: 623815

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.1



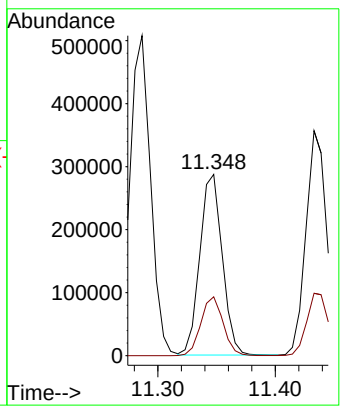


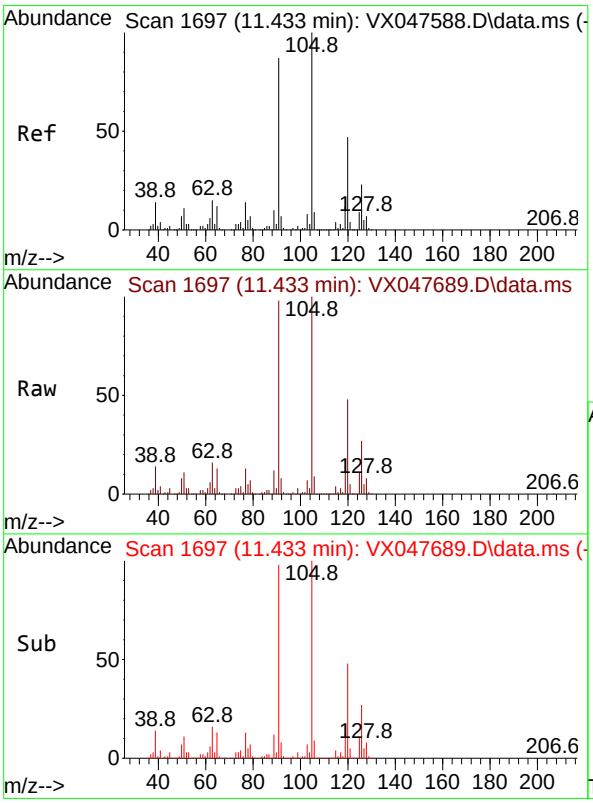
#79
2-Chlorotoluene
Concen: 50.962 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 380369

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3

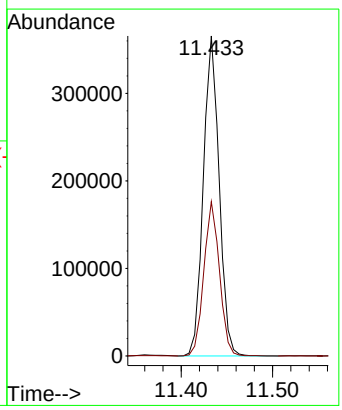


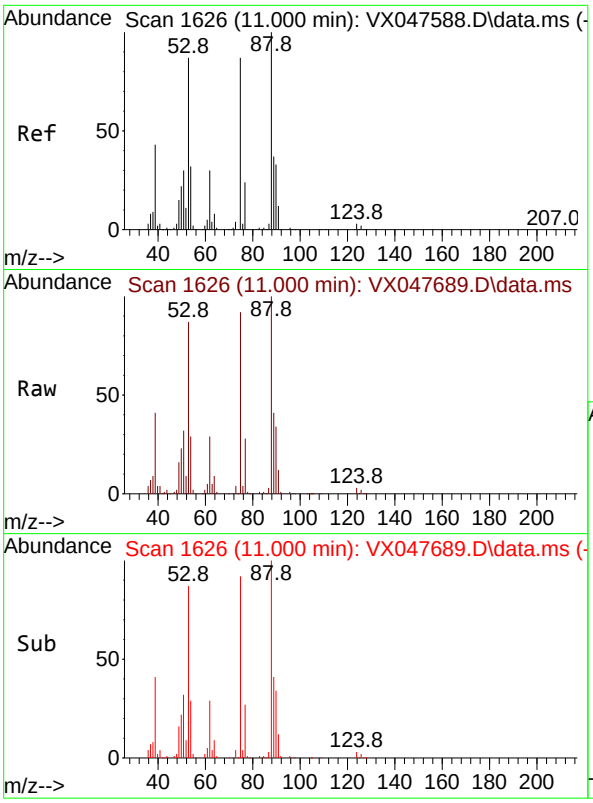


#80
1,3,5-Trimethylbenzene
Concen: 51.525 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:105 Resp: 436393

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.6	70.8



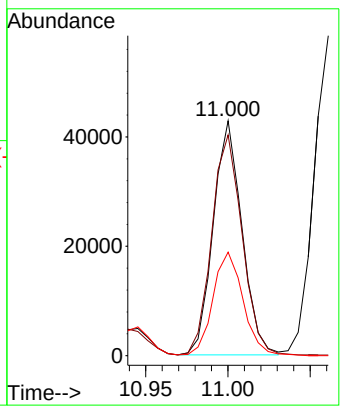


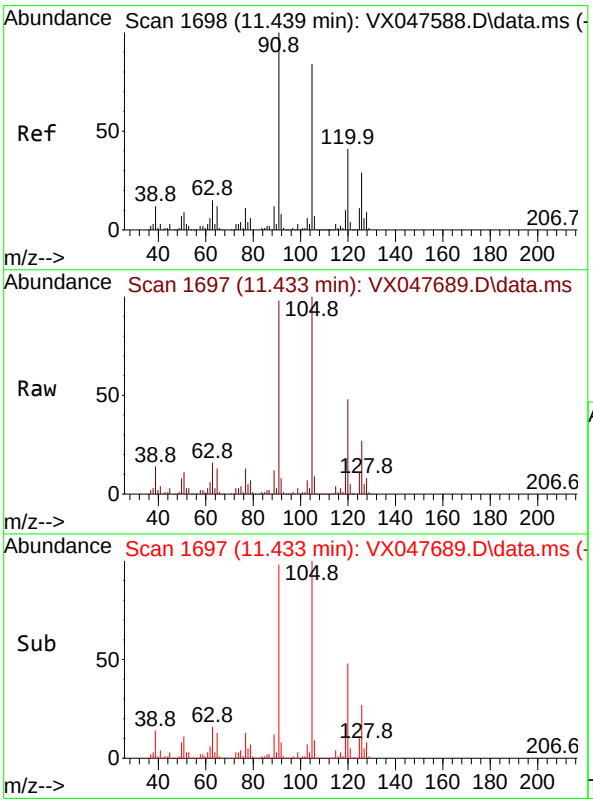
#81
trans-1,4-Dichloro-2-butene
Concen: 48.334 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 52034

Ion	Ratio	Lower	Upper
75	100		
53	99.6	83.4	125.2
89	46.6	36.3	54.5

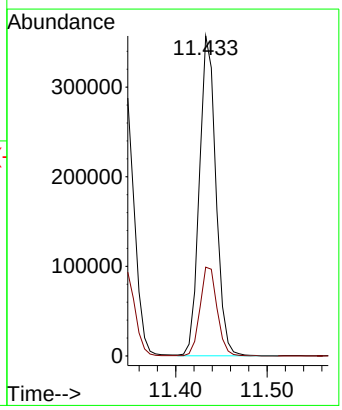


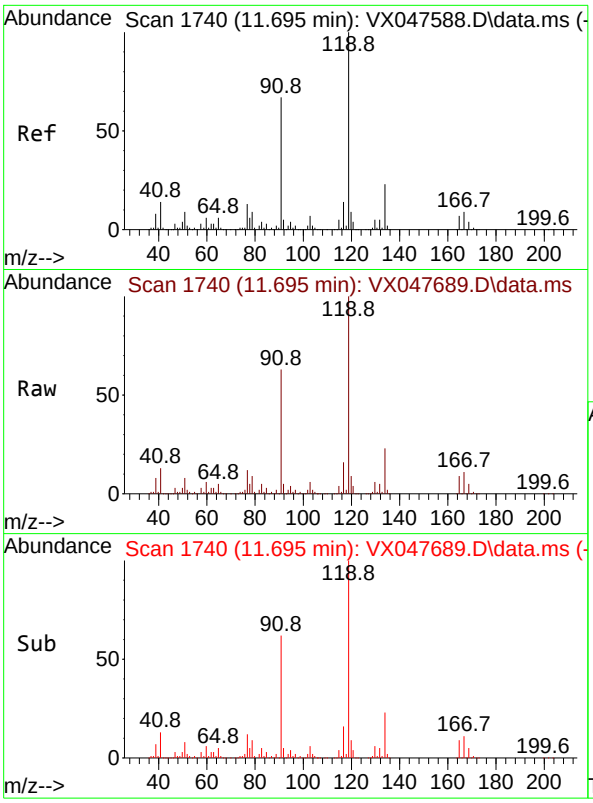


#82
4-Chlorotoluene
Concen: 50.709 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 91 Resp: 447005

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6



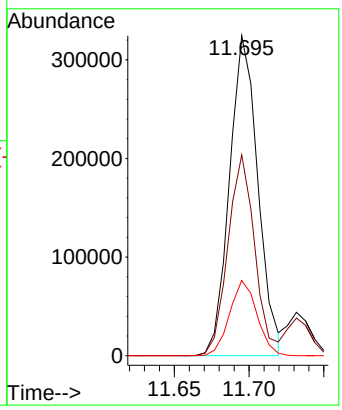


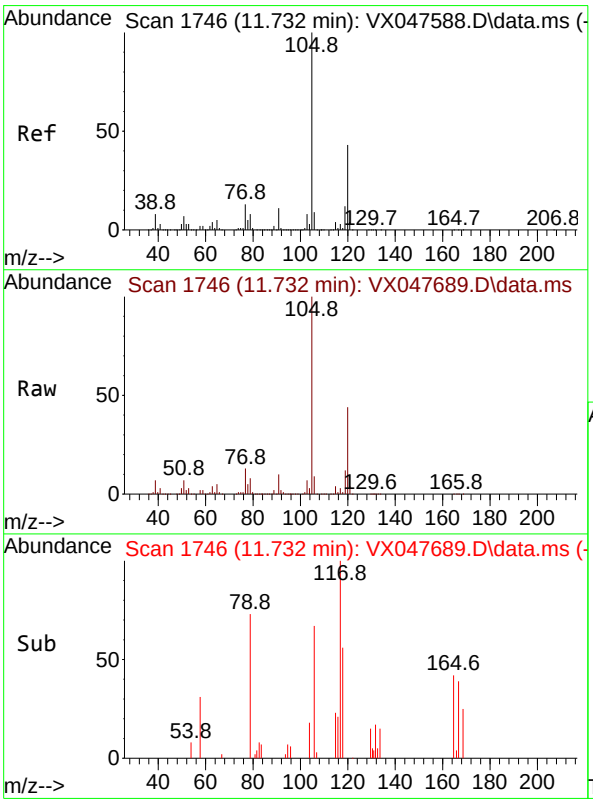
#83
tert-Butylbenzene
Concen: 49.469 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 428900

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.6	88.8
134	22.7	11.0	33.0

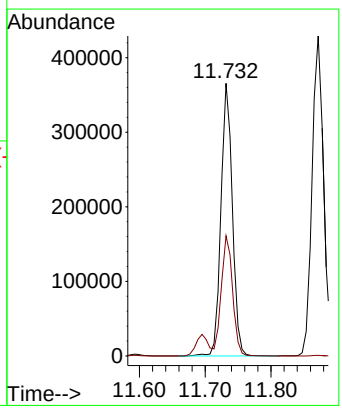


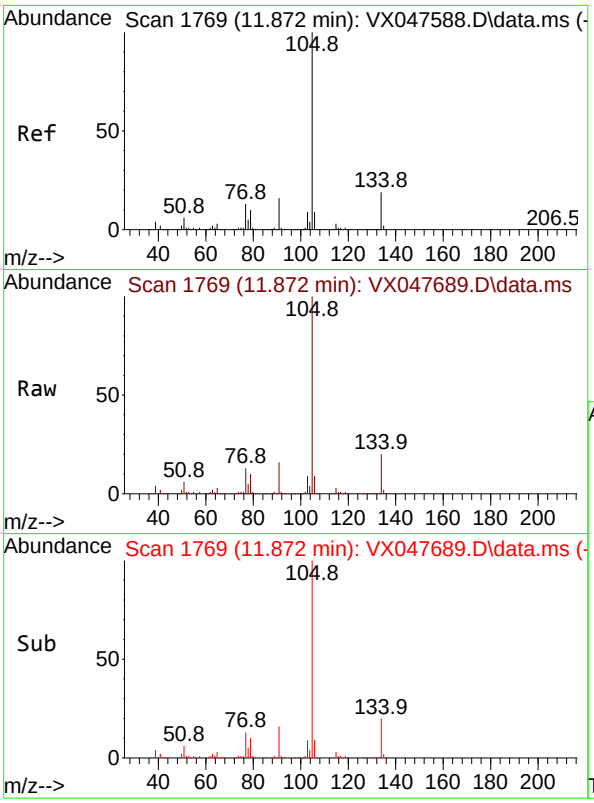


#84
1,2,4-Trimethylbenzene
Concen: 51.338 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:105 Resp: 440824

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1



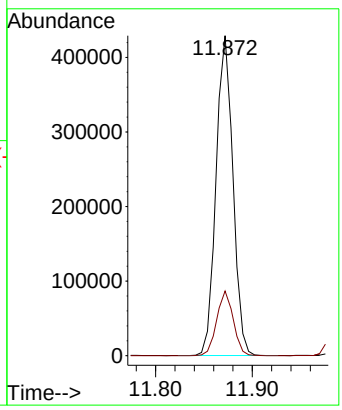


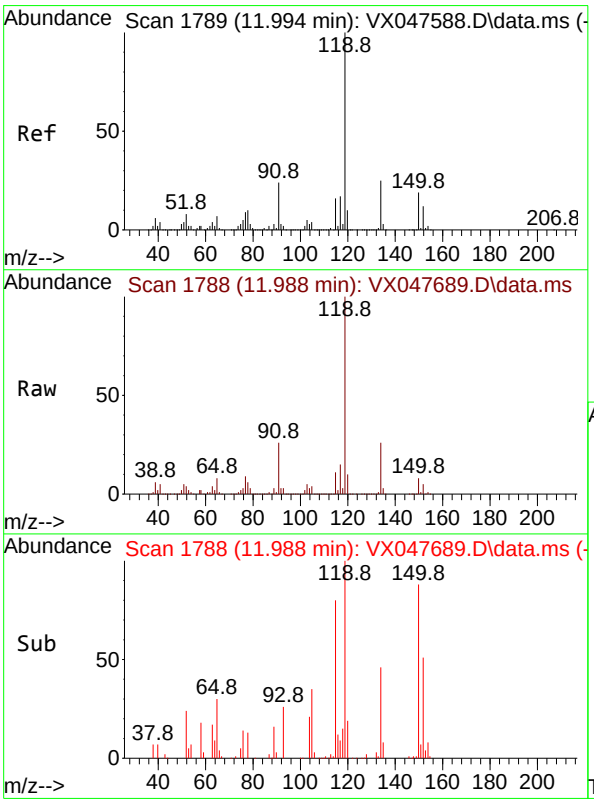
#85
sec-Butylbenzene
Concen: 50.386 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 518888

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

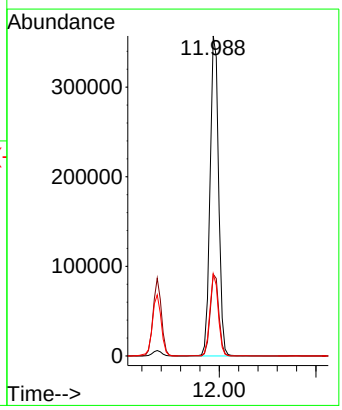


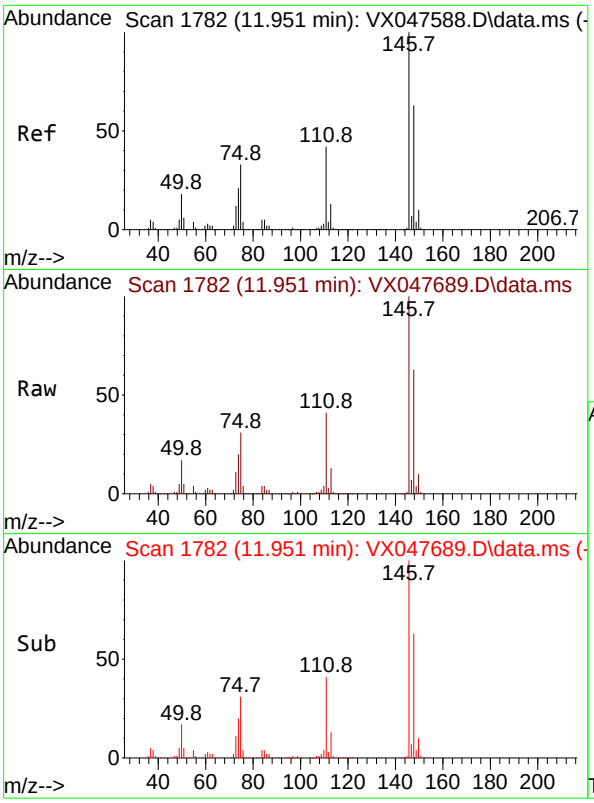


#86
p-Isopropyltoluene
Concen: 50.142 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:119 Resp: 437167

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	25.1	12.6	37.6



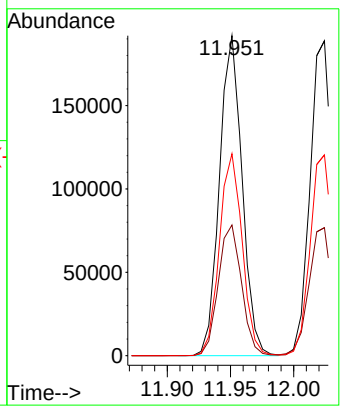


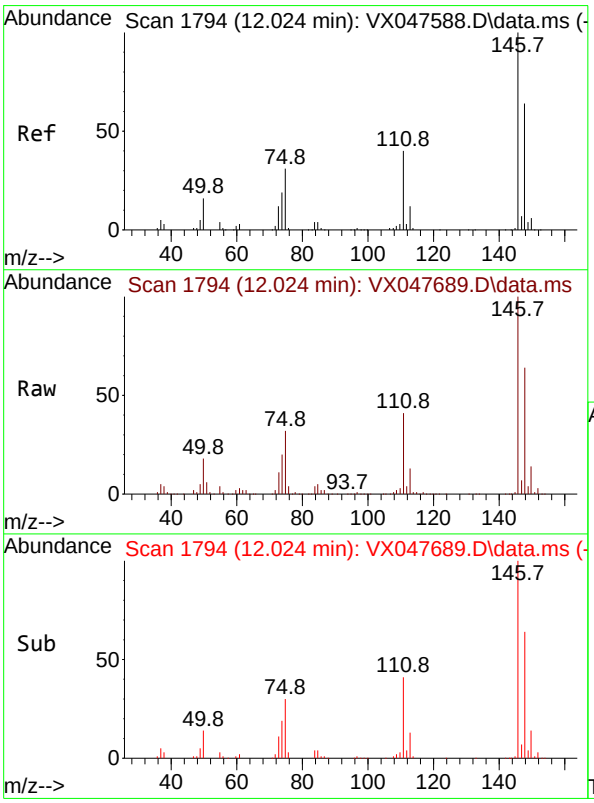
#87
1,3-Dichlorobenzene
Concen: 50.649 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 238855

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	63.5	32.0	96.0

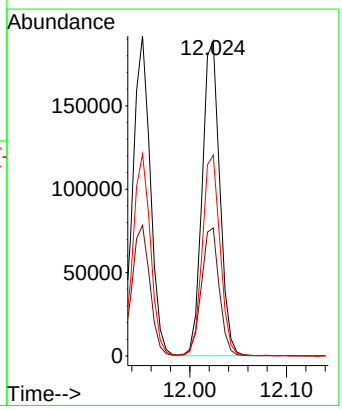


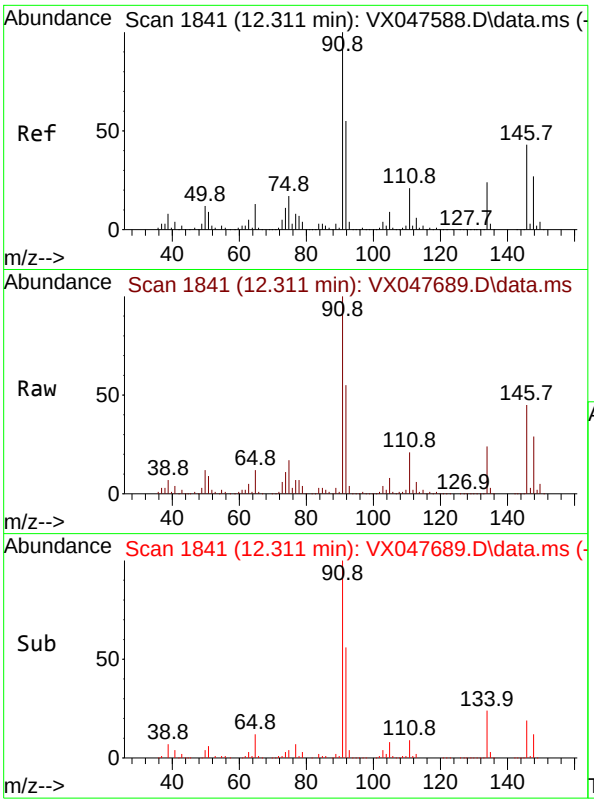


#88
1,4-Dichlorobenzene
Concen: 49.364 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:146 Resp: 238927

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.8	62.4
148	64.5	31.7	95.1



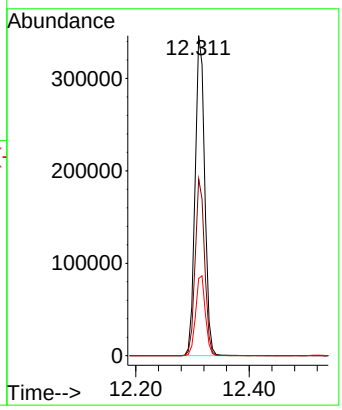


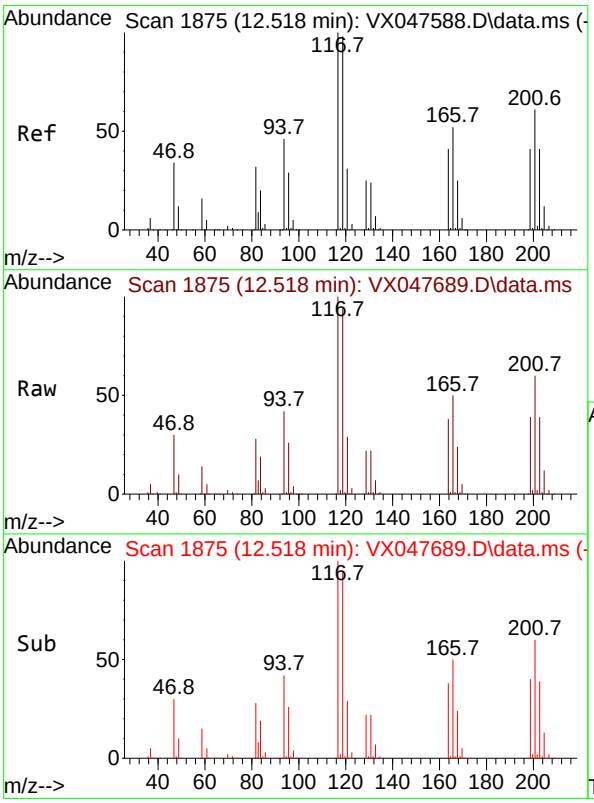
#89
n-Butylbenzene
Concen: 50.441 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 406919

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.3	12.6	37.8

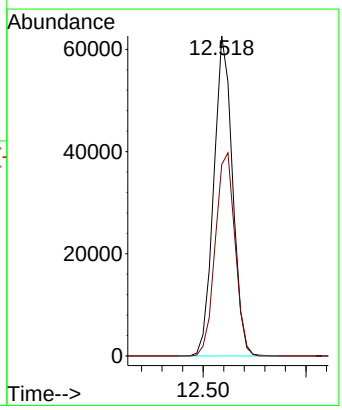


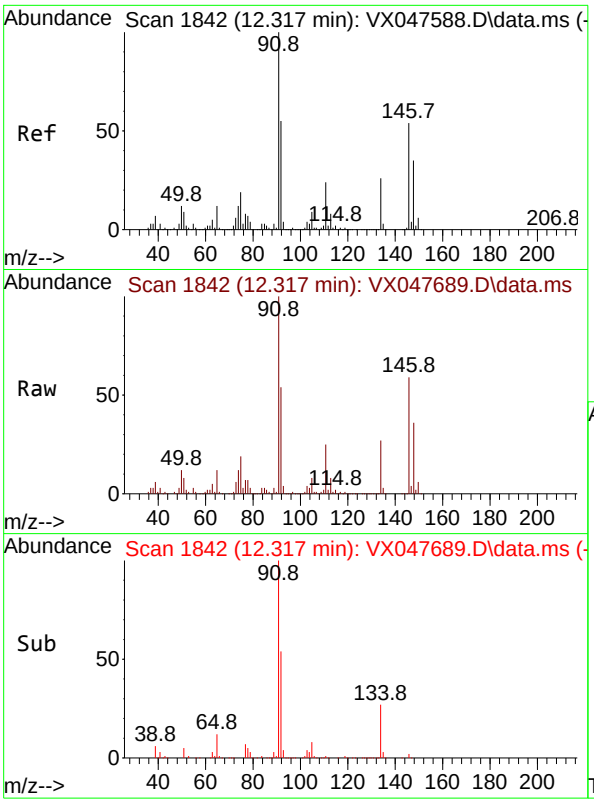


#90
Hexachloroethane
Concen: 51.794 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:117 Resp: 79281

Ion	Ratio	Lower	Upper
117	100		
201	66.9	34.2	102.5



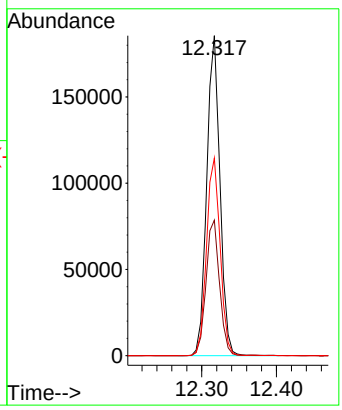


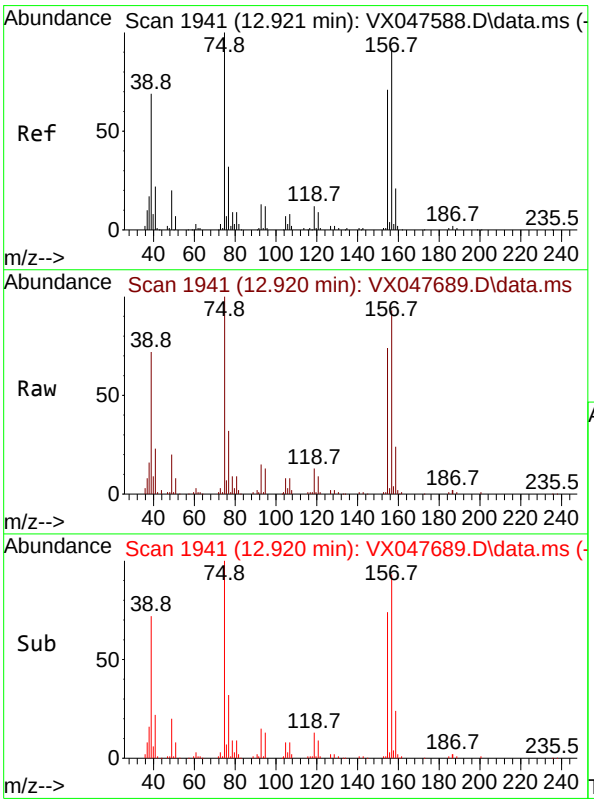
#91
1,2-Dichlorobenzene
Concen: 50.568 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 227197

Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.2	66.6
148	63.6	31.8	95.4

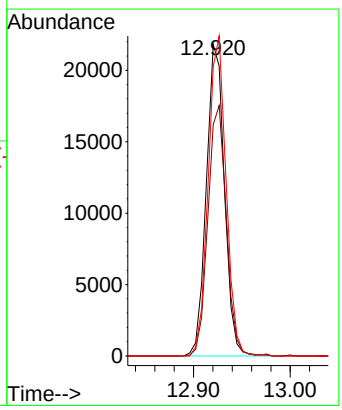


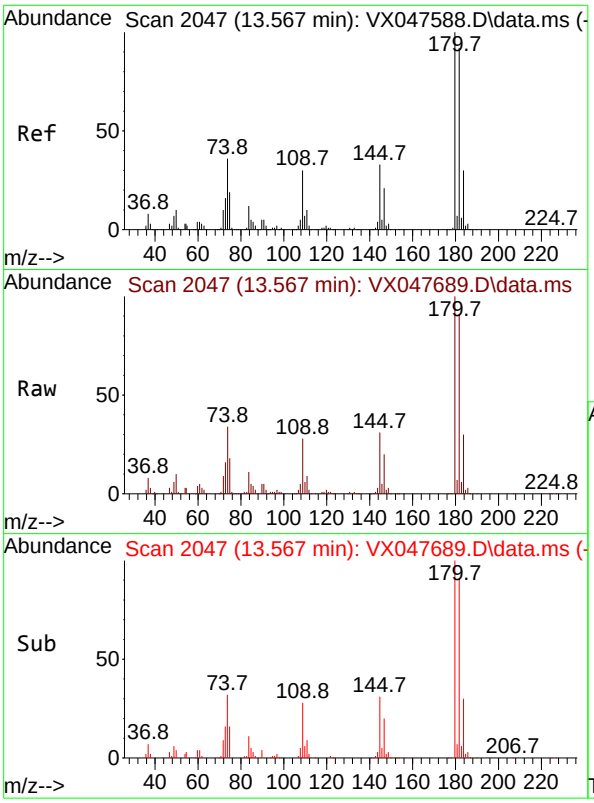


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.046 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion: 75 Resp: 28445

Ion	Ratio	Lower	Upper
75	100		
155	81.6	37.7	113.1
157	101.4	49.8	149.4



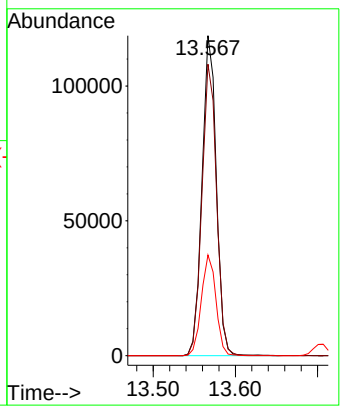


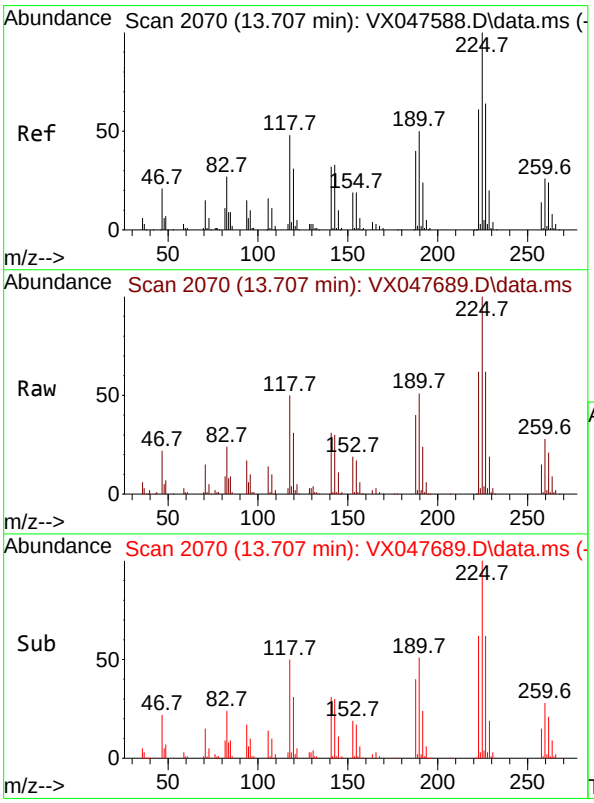
#93
1,2,4-Trichlorobenzene
Concen: 49.042 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 143201

Ion	Ratio	Lower	Upper
180	100		
182	93.3	46.6	139.8
145	32.0	16.4	49.1

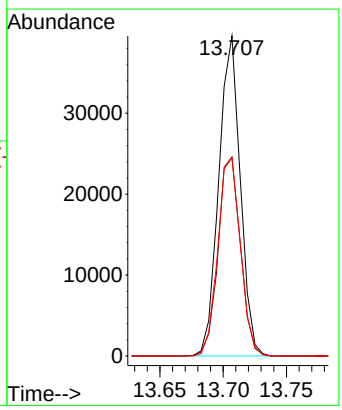


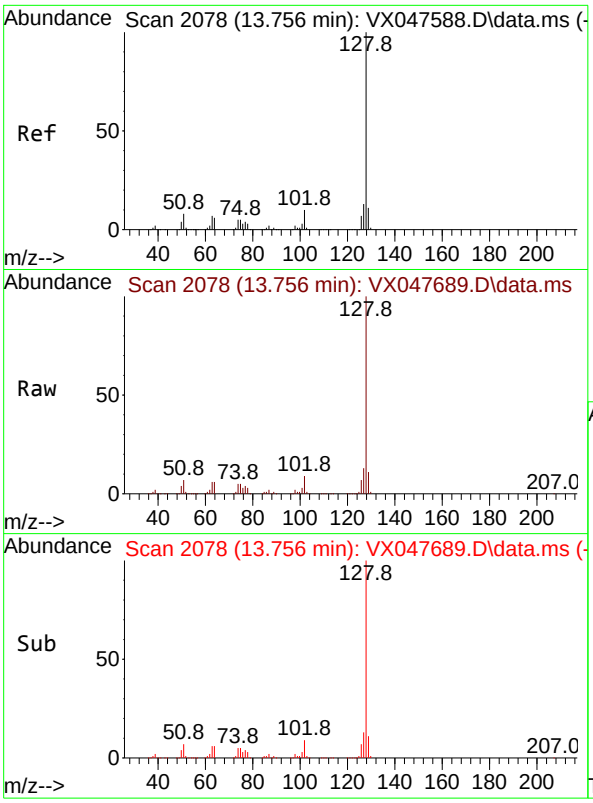


#94
Hexachlorobutadiene
Concen: 47.039 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:225 Resp: 46654

Ion	Ratio	Lower	Upper
225	100		
223	64.4	31.7	95.1
227	65.0	32.0	96.0



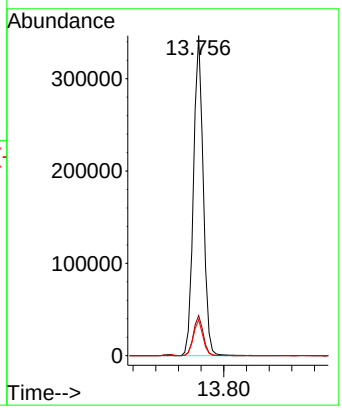


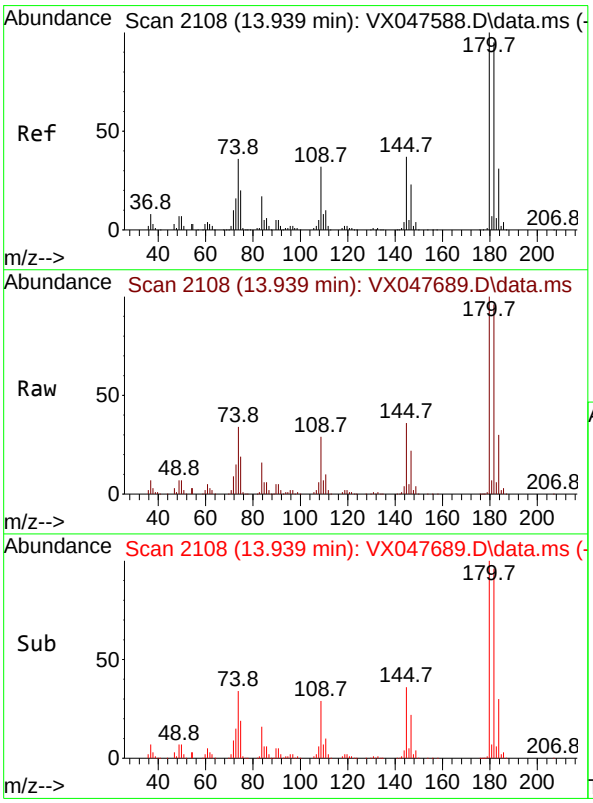
#95
Naphthalene
Concen: 46.595 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 414295

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.0	8.8	13.2

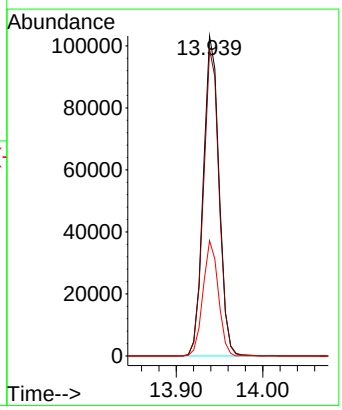




#96
1,2,3-Trichlorobenzene
Concen: 47.912 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047689.D
Acq: 22 Sep 2025 09:38

Tgt Ion:180 Resp: 130139

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.6	142.8
145	35.0	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047692.D
Acq On : 22 Sep 2025 10:54
Operator : JC/MD
Sample : VX0922WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Quant Time: Sep 23 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	172067	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	311516	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	283214	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	141526	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	150951	55.114	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.220%			
35) Dibromofluoromethane	5.367	113	114849	54.973	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.940%			
50) Toluene-d8	8.628	98	397036	54.922	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 109.840%			
62) 4-Bromofluorobenzene	11.061	95	155877	56.816	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 113.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	46231	25.947	ug/l	98
3) Chloromethane	1.301	50	54860	23.427	ug/l	98
4) Vinyl Chloride	1.380	62	54636	23.834	ug/l	97
5) Bromomethane	1.618	94	36401	25.042	ug/l	99
6) Chloroethane	1.697	64	34677	22.634	ug/l	99
7) Trichlorofluoromethane	1.898	101	76528	22.484	ug/l	100
8) Diethyl Ether	2.136	74	29894	21.471	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	44783	22.502	ug/l	99
10) Methyl Iodide	2.453	142	63342	20.407	ug/l	99
11) Tert butyl alcohol	2.934	59	25742	84.390	ug/l	99
12) 1,1-Dichloroethene	2.325	96	45735	22.372	ug/l	97
13) Acrolein	2.233	56	30904	109.941	ug/l	98
14) Allyl chloride	2.666	41	88046	20.871	ug/l	99
15) Acrylonitrile	3.056	53	118406	104.795	ug/l	99
16) Acetone	2.374	43	107259	90.068	ug/l	99
17) Carbon Disulfide	2.514	76	130489	23.316	ug/l	98
18) Methyl Acetate	2.697	43	52517	19.816	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	155581	20.848	ug/l	99
20) Methylene Chloride	2.788	84	54900	21.779	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	49816	22.634	ug/l	95
22) Diisopropyl ether	3.745	45	177530	21.714	ug/l #	84
23) Vinyl Acetate	3.709	43	689485	105.372	ug/l	100
24) 1,1-Dichloroethane	3.599	63	95520	21.982	ug/l	97
25) 2-Butanone	4.538	43	141299	95.121	ug/l	100
26) 2,2-Dichloropropane	4.465	77	75850	20.998	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	59288	21.995	ug/l	97
28) Bromochloromethane	4.885	49	42966	22.649	ug/l	99
29) Tetrahydrofuran	4.983	42	88443	98.972	ug/l	98
30) Chloroform	5.074	83	97110	22.115	ug/l	98
31) Cyclohexane	5.452	56	79522	21.972	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	81455	21.869	ug/l	100
36) 1,1-Dichloropropene	5.678	75	64296	21.061	ug/l	99
37) Ethyl Acetate	4.690	43	62468	19.111	ug/l	99
38) Carbon Tetrachloride	5.666	117	68845	20.756	ug/l	100
39) Methylcyclohexane	7.360	83	72971	21.057	ug/l	95
40) Benzene	6.019	78	199198	21.483	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047692.D
Acq On : 22 Sep 2025 10:54
Operator : JC/MD
Sample : VX0922WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Quant Time: Sep 23 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	33257	19.708	ug/l		97
42) 1,2-Dichloroethane	6.068	62	71955	20.396	ug/l		98
43) Isopropyl Acetate	6.318	43	105998	19.773	ug/l		99
44) Trichloroethene	7.104	130	48754	21.749	ug/l		96
45) 1,2-Dichloropropane	7.409	63	50730	21.367	ug/l		99
46) Dibromomethane	7.562	93	36077	20.881	ug/l		98
47) Bromodichloromethane	7.805	83	74860	20.997	ug/l		98
48) Methyl methacrylate	7.677	41	51141	19.152	ug/l		99
49) 1,4-Dioxane	7.641	88	10494	388.865	ug/l	#	91
51) 4-Methyl-2-Pentanone	8.555	43	301025	101.277	ug/l		99
52) Toluene	8.702	92	120963	21.175	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	74830	20.577	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	82076	21.115	ug/l		100
55) 1,1,2-Trichloroethane	9.134	97	46109	20.933	ug/l		95
56) Ethyl methacrylate	9.098	69	70536	20.390	ug/l		98
57) 1,3-Dichloropropane	9.287	76	81692	21.589	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	144109	94.402	ug/l		100
59) 2-Hexanone	9.415	43	206129	96.561	ug/l		100
60) Dibromochloromethane	9.506	129	54546	21.491	ug/l		98
61) 1,2-Dibromoethane	9.592	107	48109	21.443	ug/l		100
64) Tetrachloroethene	9.256	164	39380	21.330	ug/l		94
65) Chlorobenzene	10.061	112	135663	21.085	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	45992	20.715	ug/l		99
67) Ethyl Benzene	10.177	91	231008	20.809	ug/l		100
68) m/p-Xylenes	10.287	106	174681	42.274	ug/l		98
69) o-Xylene	10.622	106	84047	21.029	ug/l		98
70) Styrene	10.640	104	145060	20.714	ug/l		99
71) Bromoform	10.781	173	34350	20.720	ug/l	#	100
73) Isopropylbenzene	10.945	105	214088	19.897	ug/l		99
74) N-amyl acetate	10.823	43	91296	18.607	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	63541	19.519	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	65877	22.990	ug/l		92
77) Bromobenzene	11.183	156	51918	19.591	ug/l		97
78) n-propylbenzene	11.287	91	255688	20.102	ug/l		100
79) 2-Chlorotoluene	11.348	91	156071	20.034	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	175941	19.903	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.000	75	19536	17.386	ug/l		97
82) 4-Chlorotoluene	11.433	91	183613	19.956	ug/l		99
83) tert-Butylbenzene	11.695	119	177186	19.580	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	179182	19.993	ug/l		99
85) sec-Butylbenzene	11.872	105	215512	20.050	ug/l		100
86) p-Isopropyltoluene	11.988	119	179574	19.733	ug/l		100
87) 1,3-Dichlorobenzene	11.951	146	98737	20.059	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	100204	19.835	ug/l		99
89) n-Butylbenzene	12.311	91	165021	19.598	ug/l		99
90) Hexachloroethane	12.518	117	31037	19.426	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	93377	19.912	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	11708	17.764	ug/l		100
93) 1,2,4-Trichlorobenzene	13.567	180	55687	18.272	ug/l		96
94) Hexachlorobutadiene	13.707	225	19591	18.925	ug/l		99
95) Naphthalene	13.756	128	164565	17.732	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	53045	18.711	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047692.D
Acq On : 22 Sep 2025 10:54
Operator : JC/MD
Sample : VX0922WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Quant Time: Sep 23 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

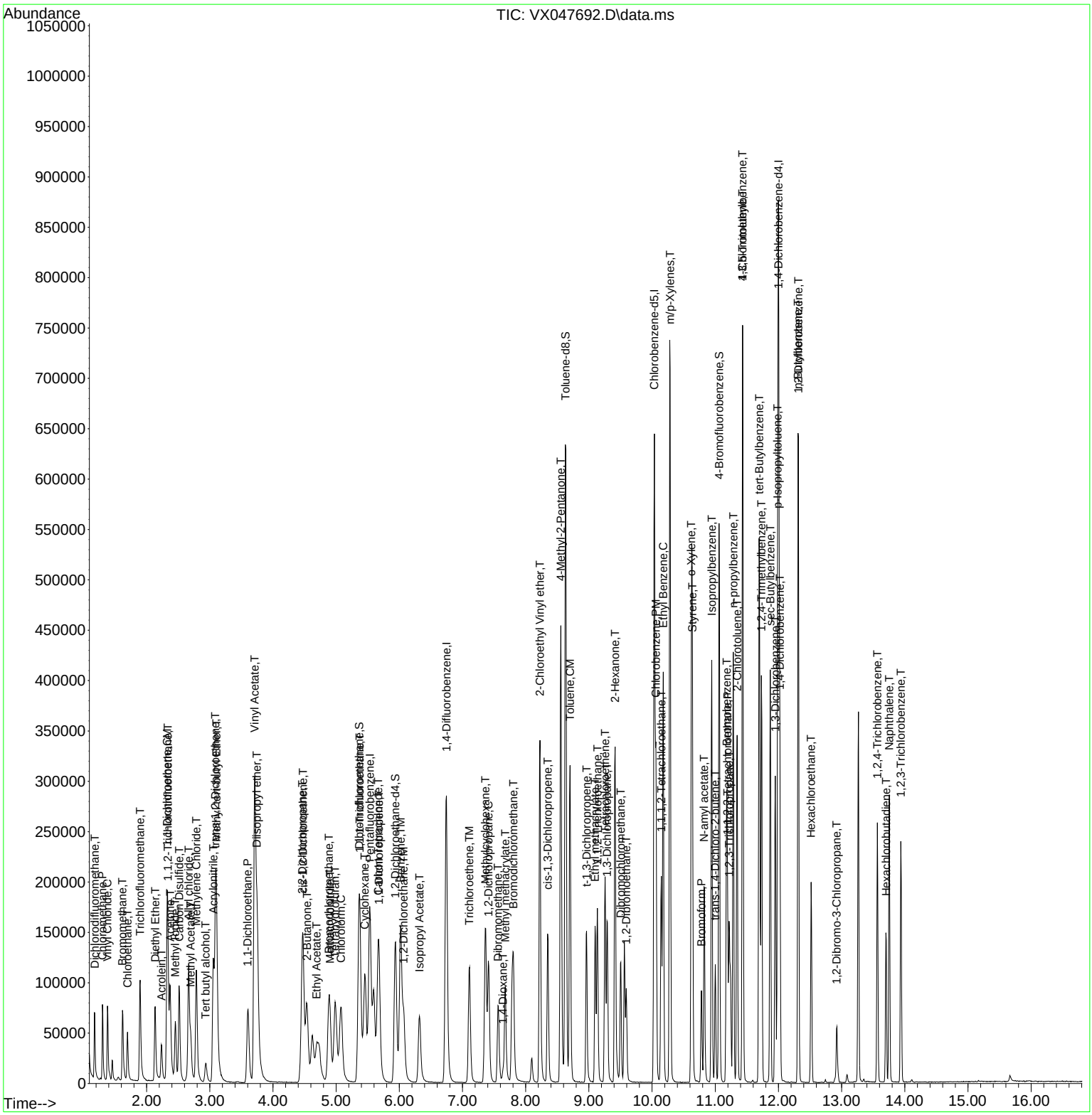
(#) = qualifier out of range (m) = manual integration (+) = signals summed

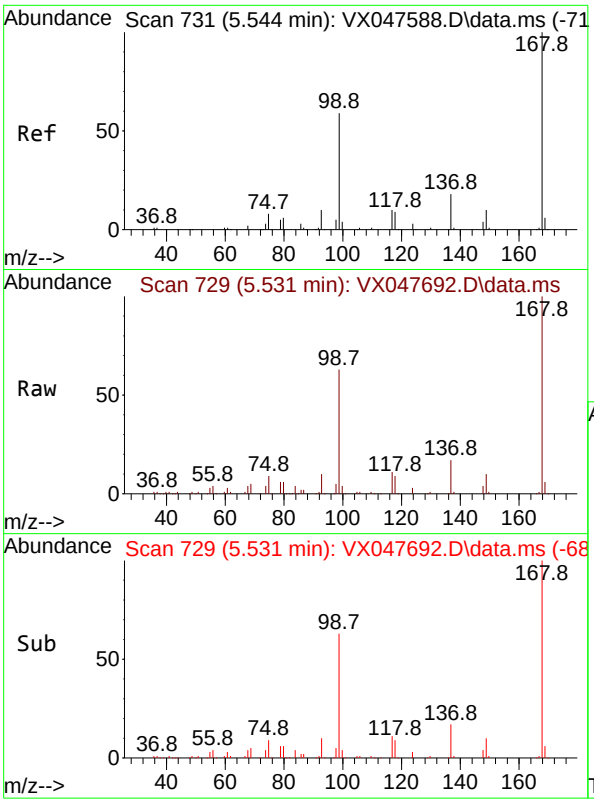
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047692.D
Acq On : 22 Sep 2025 10:54
Operator : JC/MD
Sample : VX0922WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Quant Time: Sep 23 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



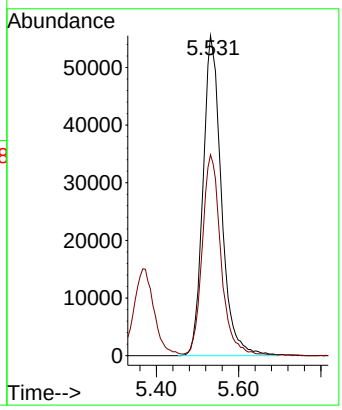


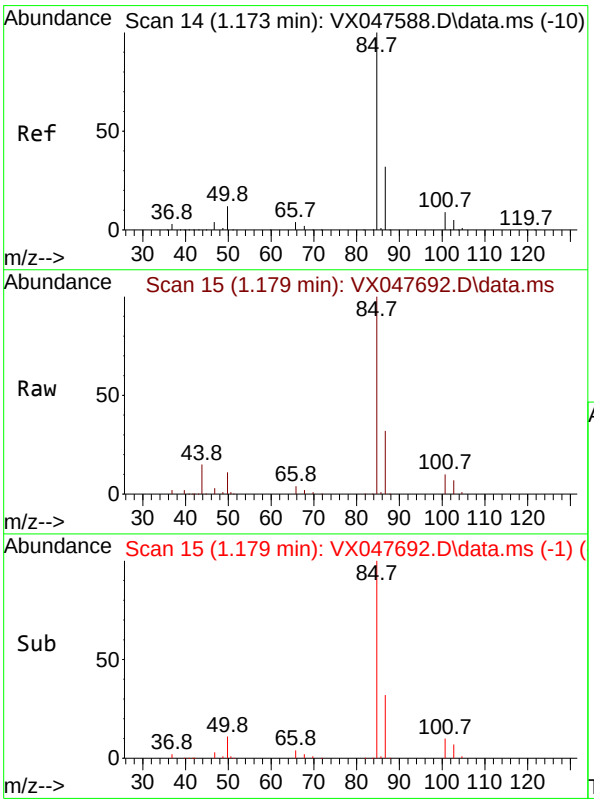
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:168 Resp: 172067

Ion	Ratio	Lower	Upper
168	100		
99	62.6	48.8	73.2

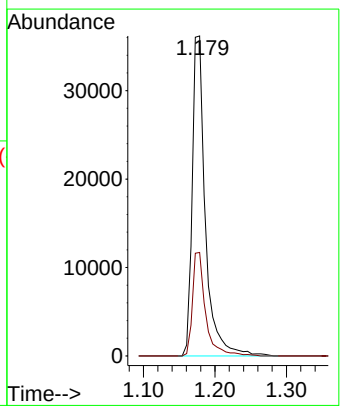


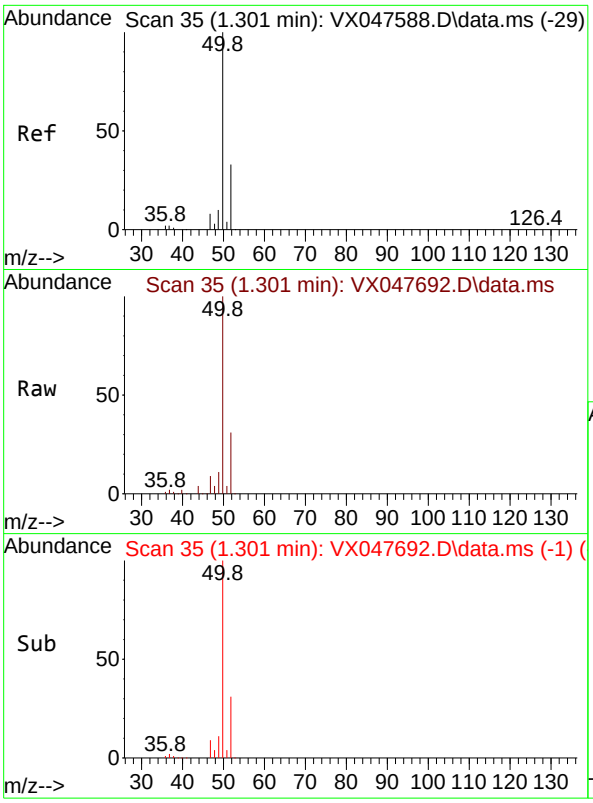


#2
Dichlorodifluoromethane
Concen: 25.947 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 85 Resp: 46231

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.8	47.3



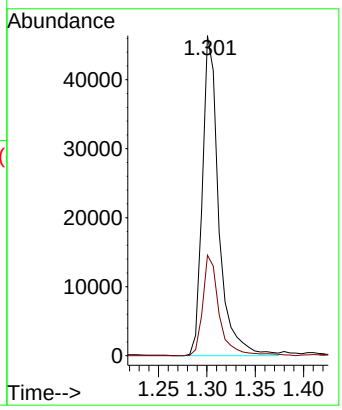


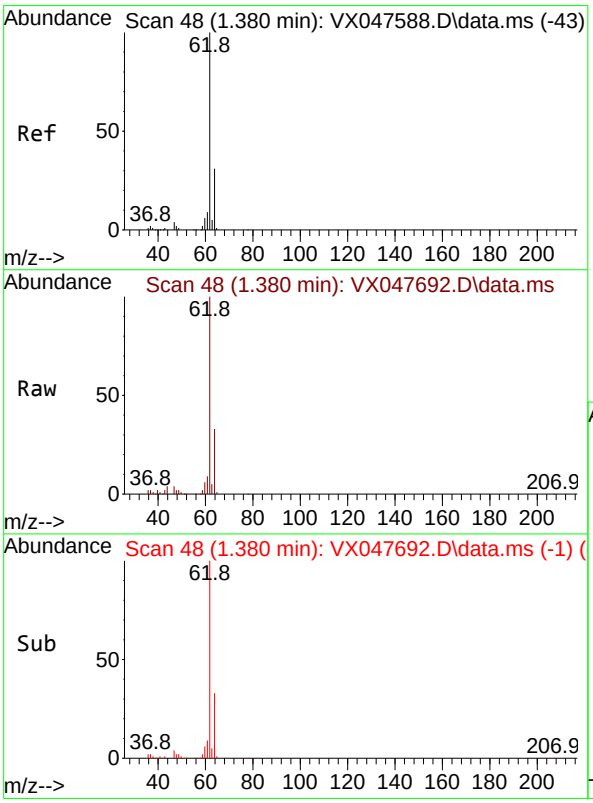
#3
Chloromethane
Concen: 23.427 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 50 Resp: 54860

Ion	Ratio	Lower	Upper
50	100		
52	31.4	26.1	39.1

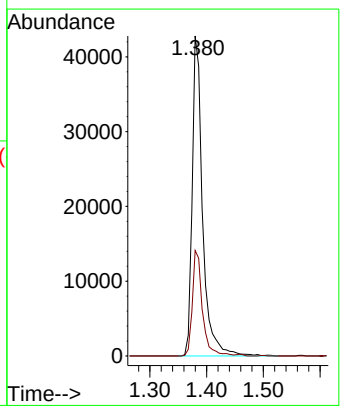


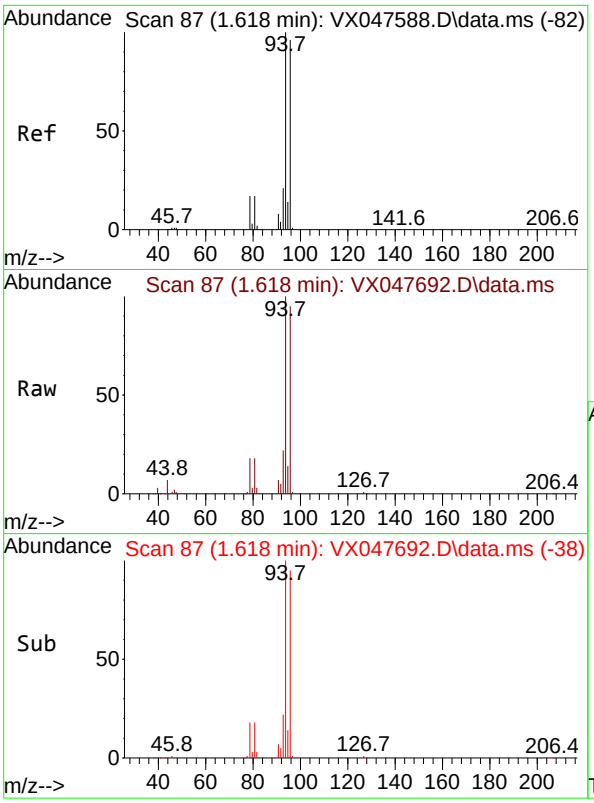


#4
Vinyl Chloride
Concen: 23.834 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 62 Resp: 54636

Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.9	37.3



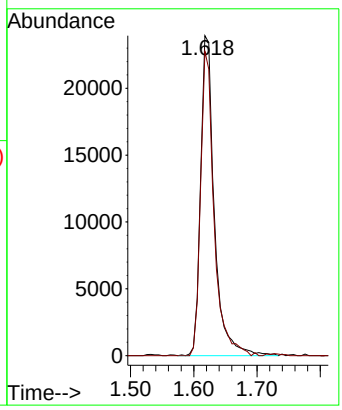


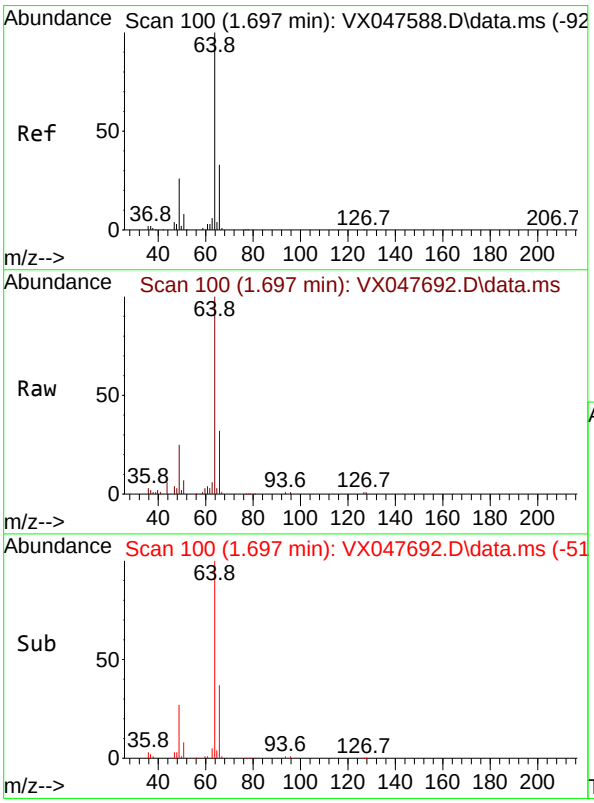
#5
Bromomethane
Concen: 25.042 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 94 Resp: 36401

Ion	Ratio	Lower	Upper
94	100		
96	95.1	76.6	115.0

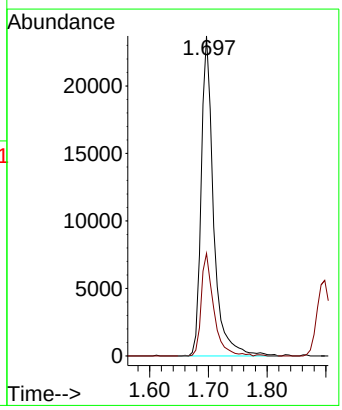


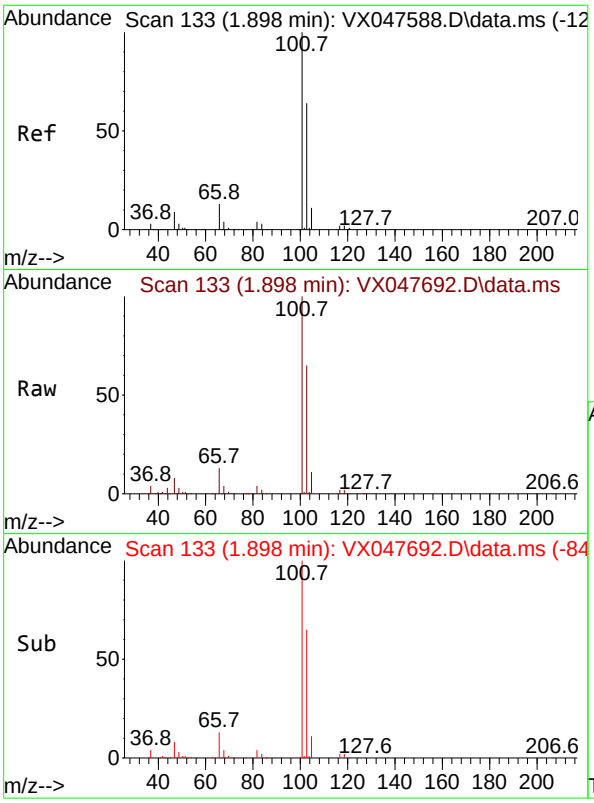


#6
Chloroethane
Concen: 22.634 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 64 Resp: 34677

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.1	39.1



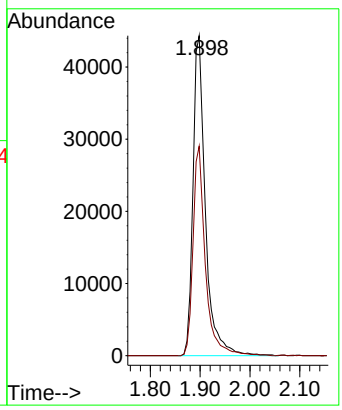


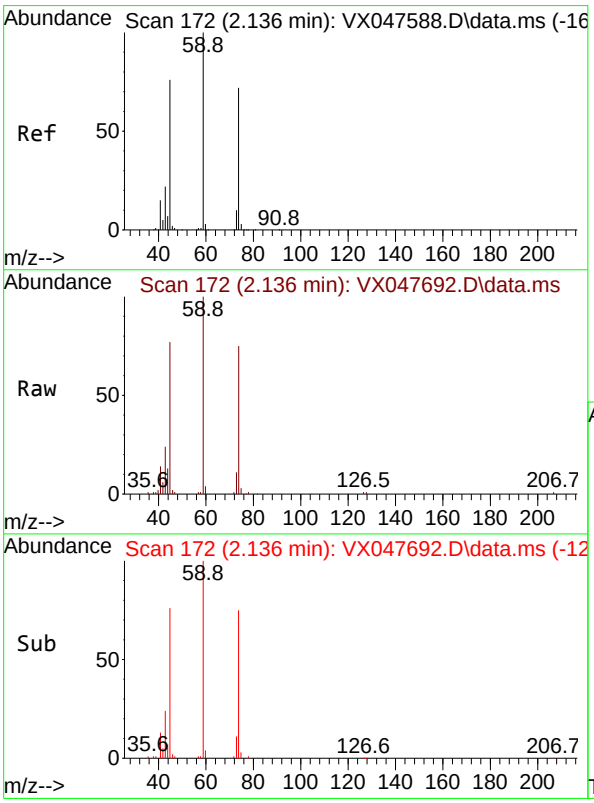
#7
Trichlorofluoromethane
Concen: 22.484 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:101 Resp: 76528

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.4	77.2

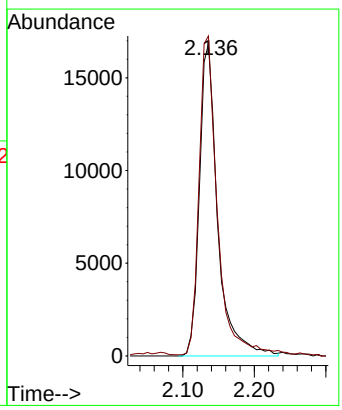


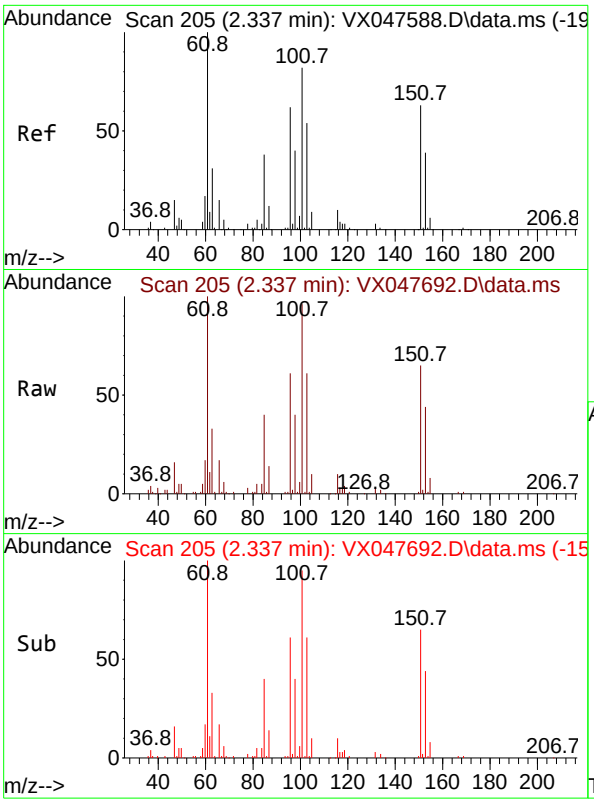


#8
Diethyl Ether
Concen: 21.471 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 74 Resp: 29894

Ion	Ratio	Lower	Upper
74	100		
45	101.8	52.3	156.8



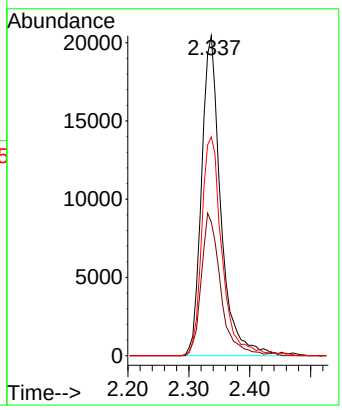


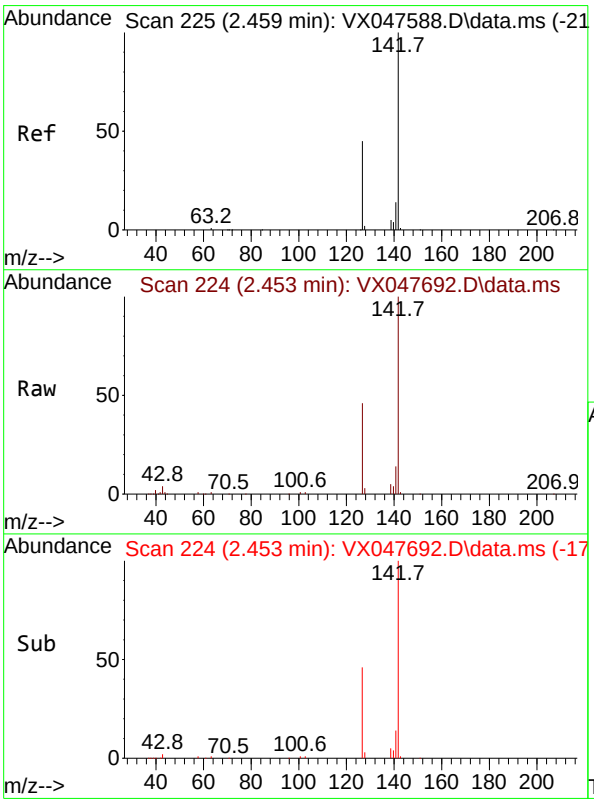
#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.502 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:101 Resp: 44783

Ion	Ratio	Lower	Upper
101	100		
85	44.8	35.5	53.3
151	72.8	59.4	89.0

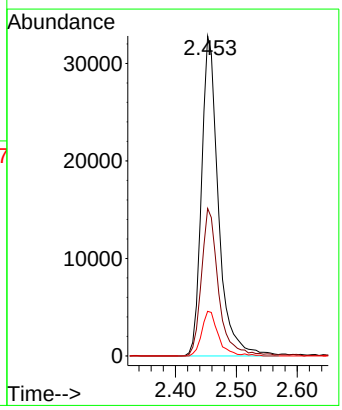


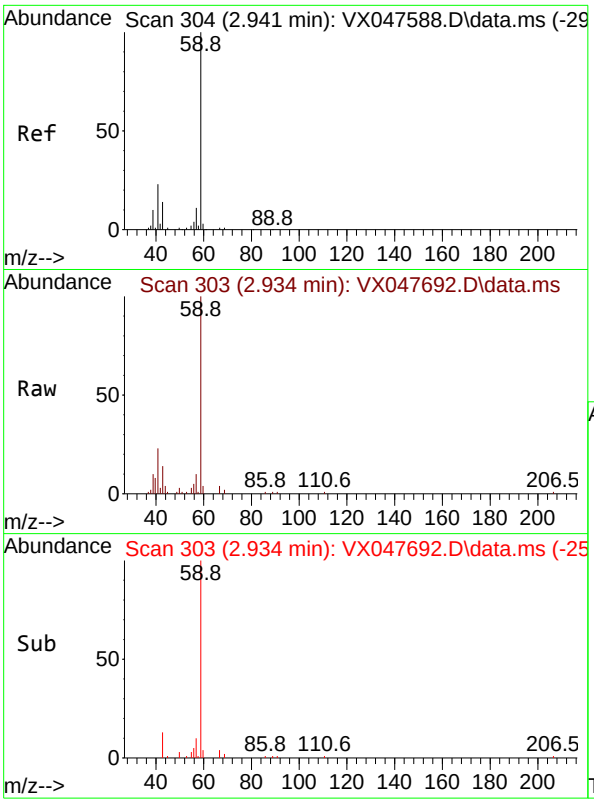


#10
Methyl Iodide
Concen: 20.407 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:142 Resp: 63342

Ion	Ratio	Lower	Upper
142	100		
127	46.7	37.2	55.8
141	13.4	11.4	17.0



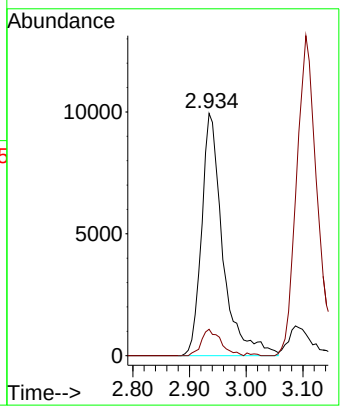


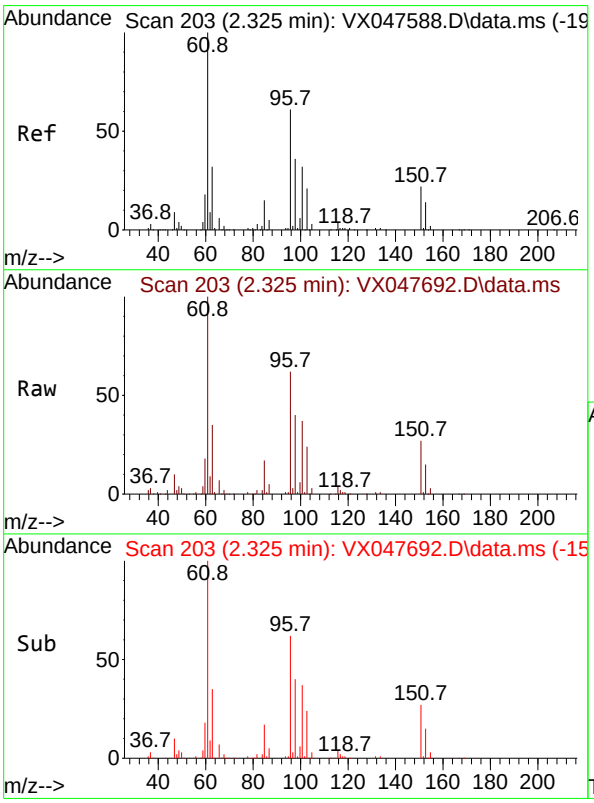
#11
Tert butyl alcohol
Concen: 84.390 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 59 Resp: 25742

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5

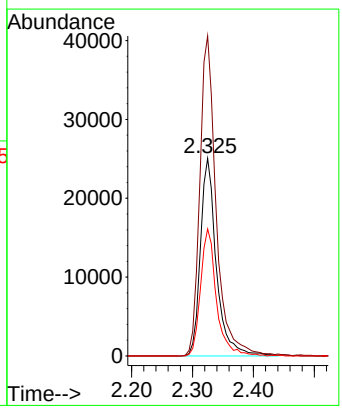


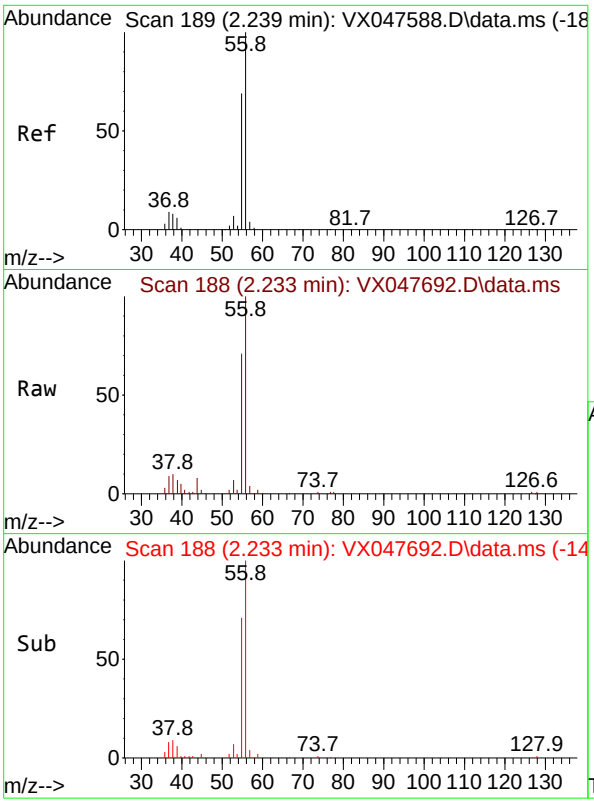


#12
1,1-Dichloroethene
Concen: 22.372 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 96 Resp: 45735

Ion	Ratio	Lower	Upper
96	100		
61	161.9	131.0	196.6
98	64.3	47.7	71.5



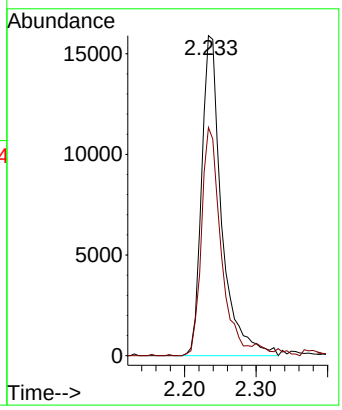


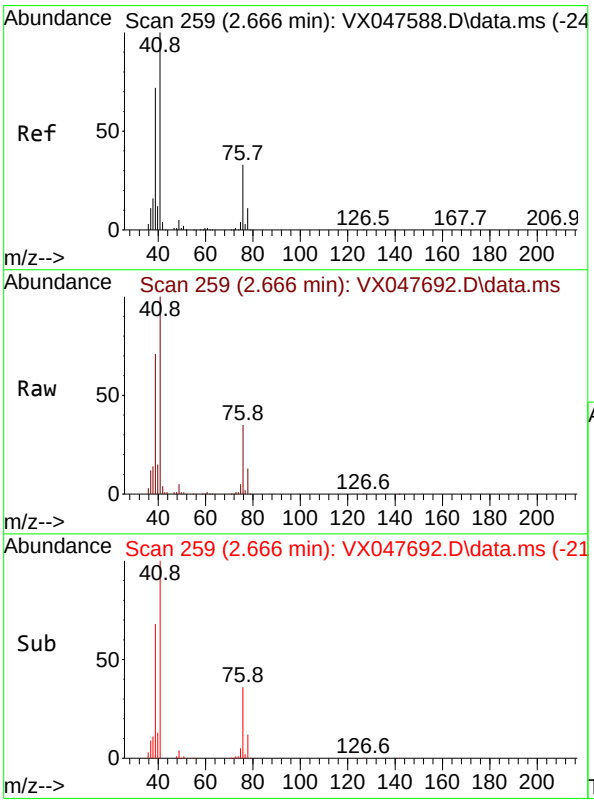
#13
Acrolein
Concen: 109.941 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 56 Resp: 30904

Ion	Ratio	Lower	Upper
56	100		
55	69.5	57.2	85.8

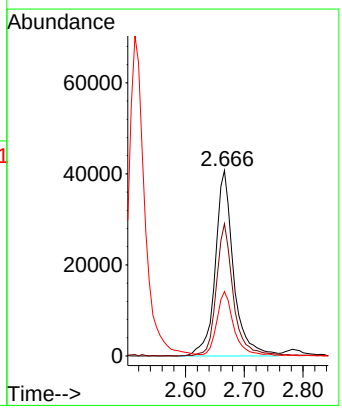


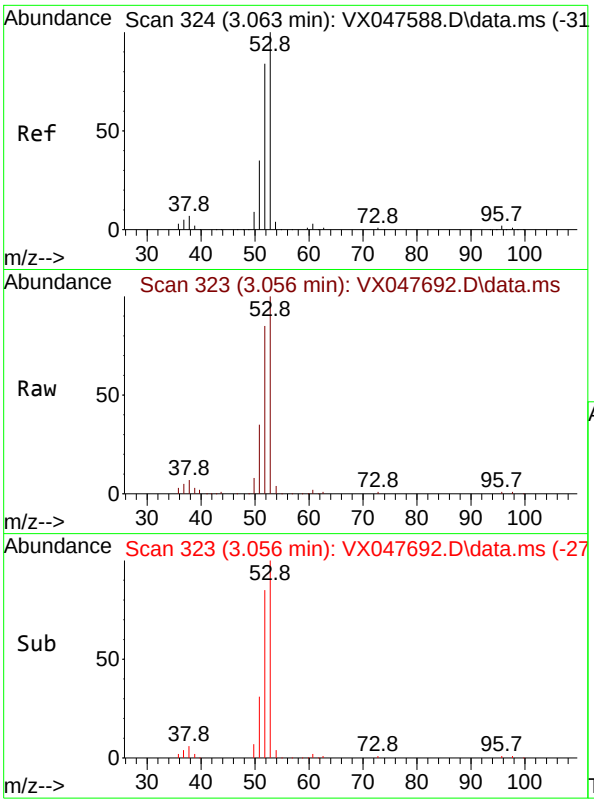


#14
Allyl chloride
Concen: 20.871 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 41 Resp: 88046

Ion	Ratio	Lower	Upper
41	100		
39	66.9	54.7	82.1
76	32.4	25.7	38.5



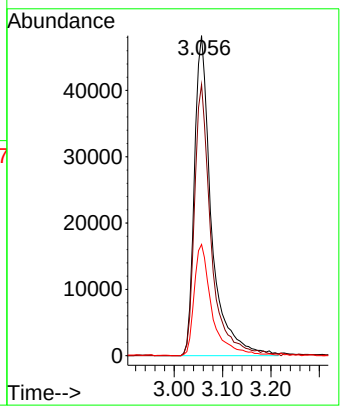


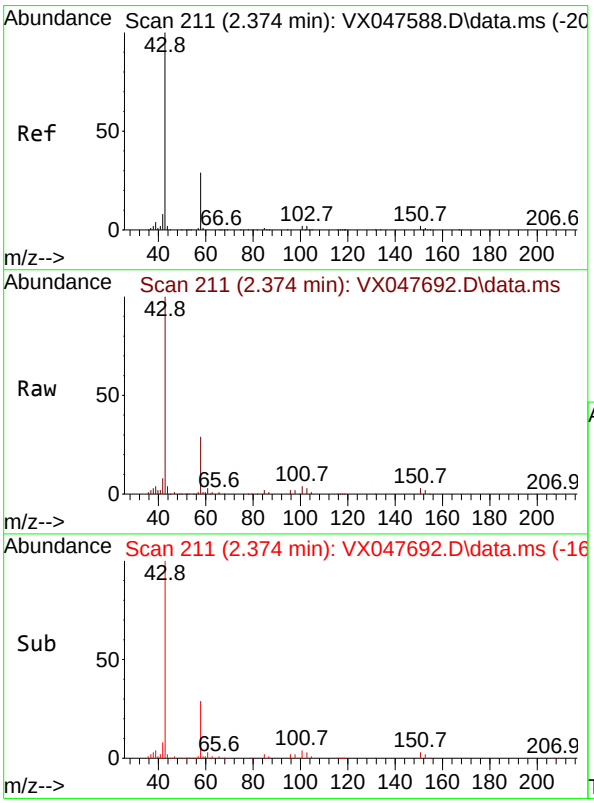
#15
Acrylonitrile
Concen: 104.795 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 53 Resp: 118406

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.2	29.5	44.3

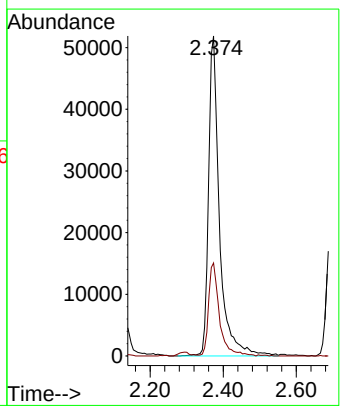


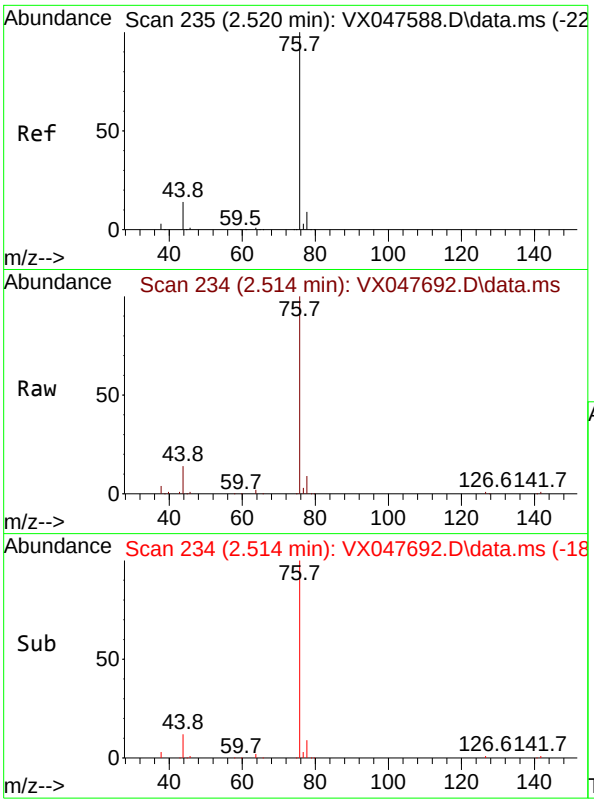


#16
Acetone
Concen: 90.068 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 107259

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.4	35.0



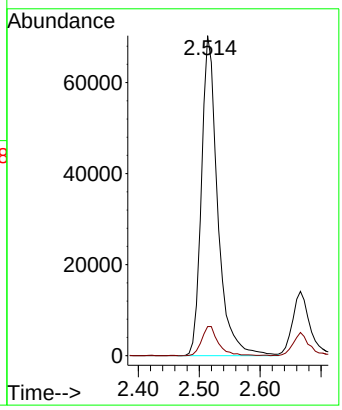


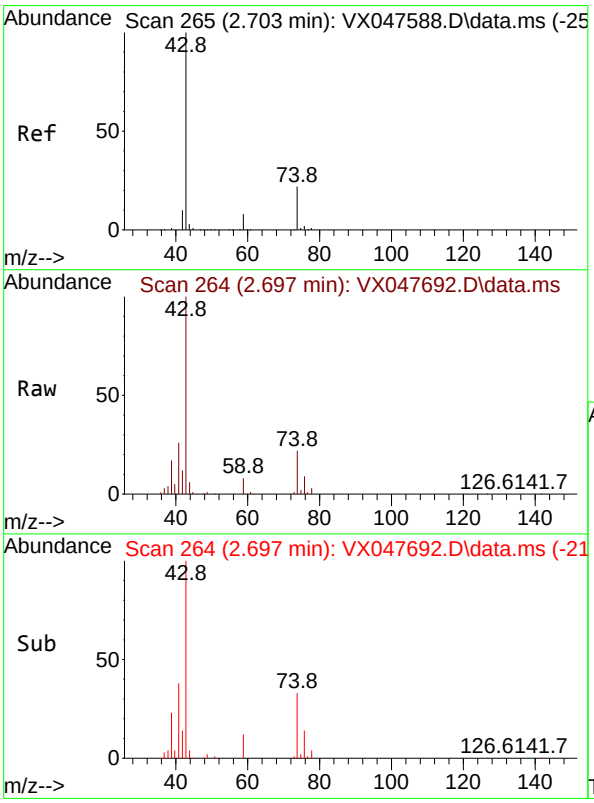
#17
Carbon Disulfide
Concen: 23.316 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 76 Resp: 130489

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.8	10.2

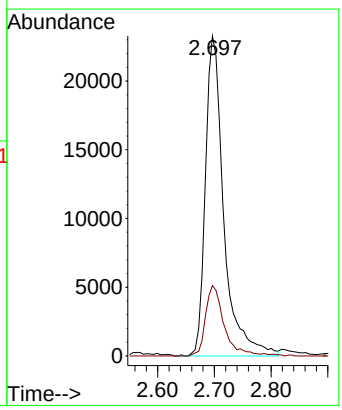


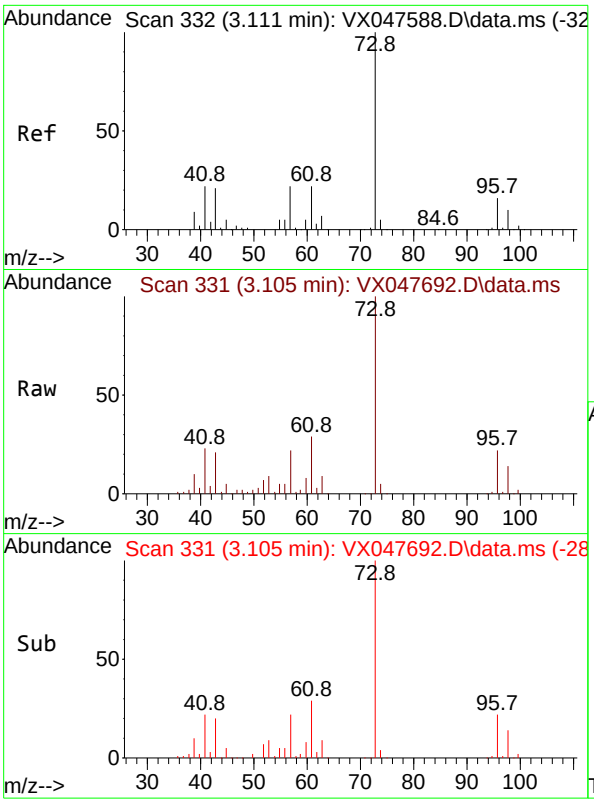


#18
Methyl Acetate
Concen: 19.816 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 52517

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.4	26.2



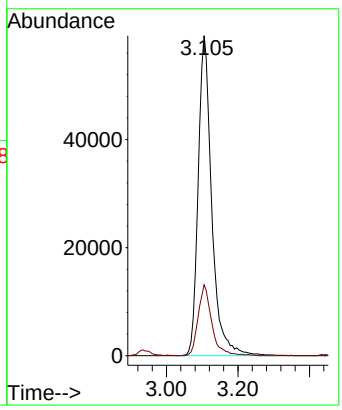


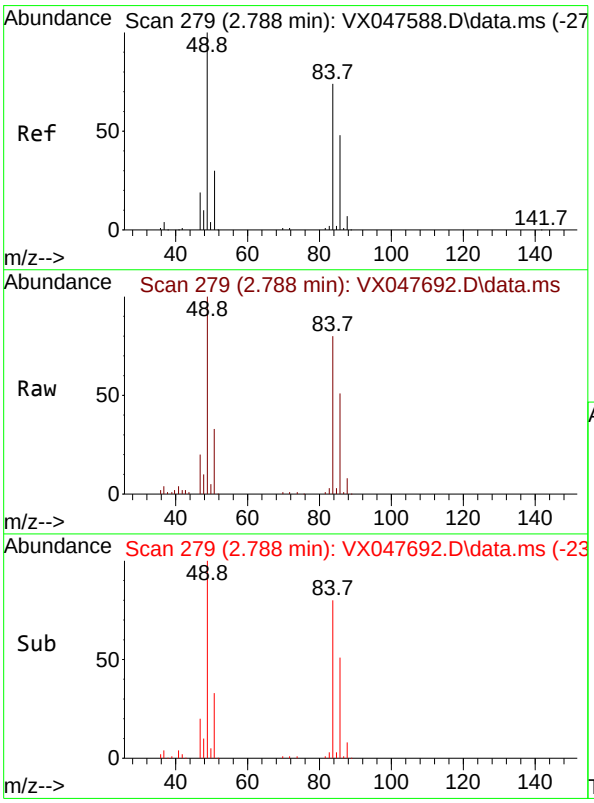
#19
Methyl tert-butyl Ether
Concen: 20.848 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 73 Resp: 155581

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2

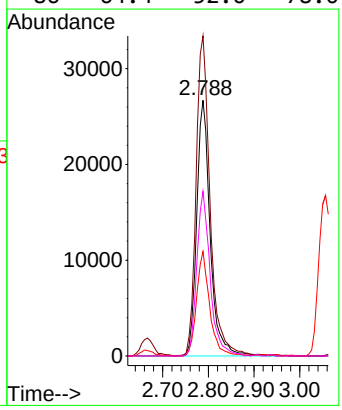


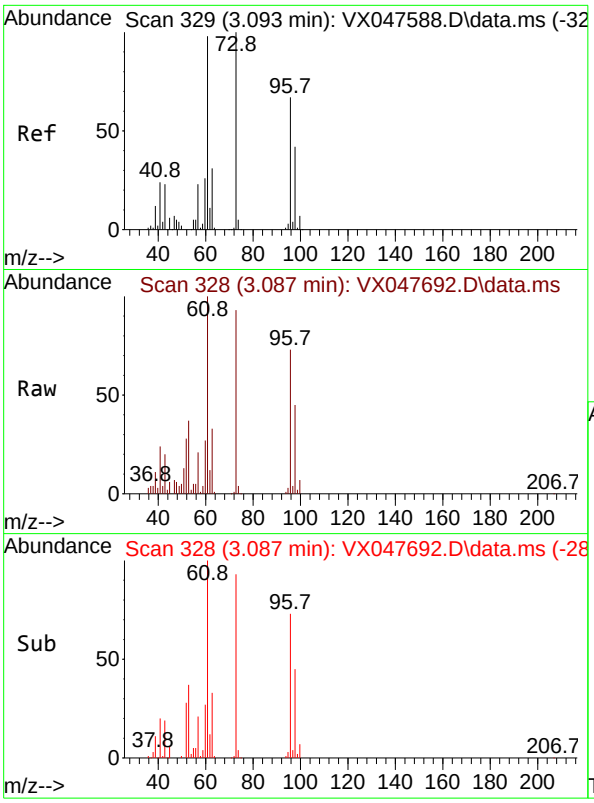


#20
Methylene Chloride
Concen: 21.779 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 84 Resp: 54900

Ion	Ratio	Lower	Upper
84	100		
49	124.9	108.6	162.8
51	40.9	32.6	48.8
86	64.4	52.0	78.0



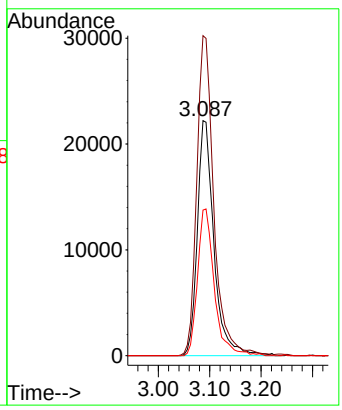


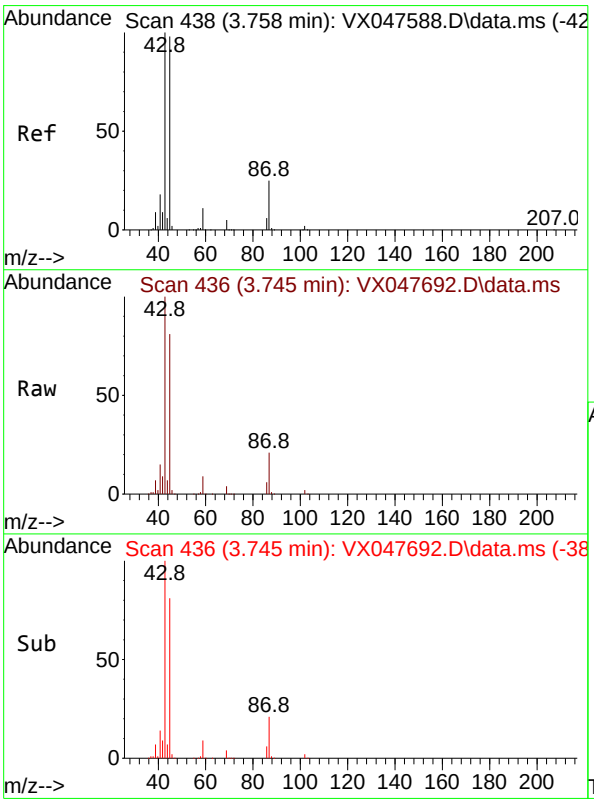
#21
trans-1,2-Dichloroethene
Concen: 22.634 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 96 Resp: 49816

Ion	Ratio	Lower	Upper
96	100		
61	136.2	116.2	174.2
98	61.9	49.3	73.9

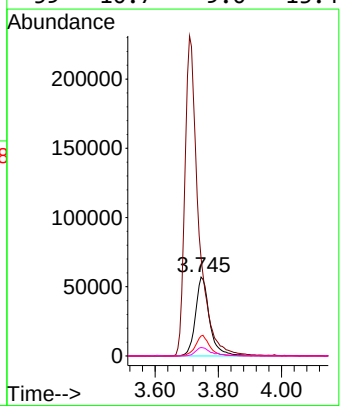


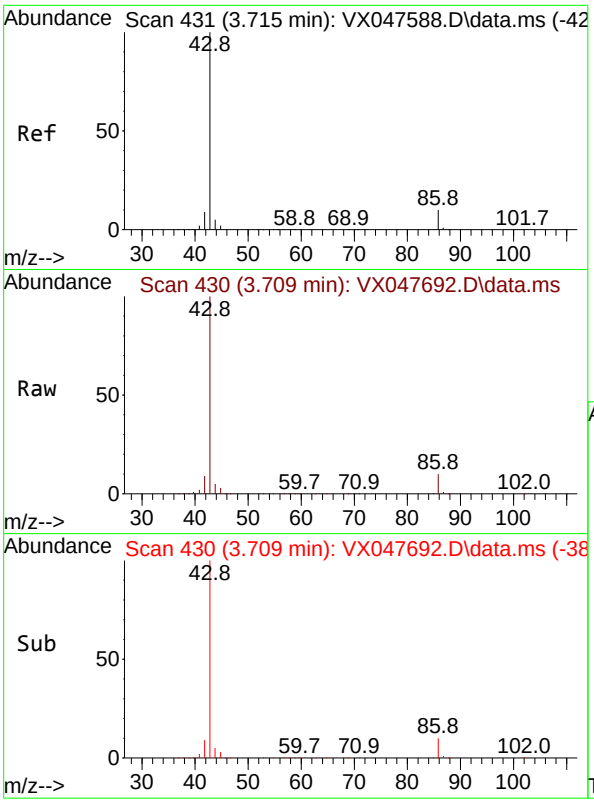


#22
Diisopropyl ether
Concen: 21.714 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 45 Resp: 177530

Ion	Ratio	Lower	Upper
45	100		
43	123.2	81.0	121.4#
87	25.4	20.3	30.5
59	10.7	9.0	13.4



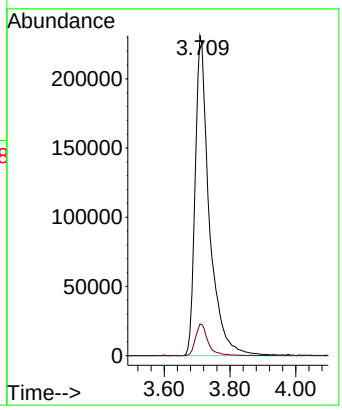


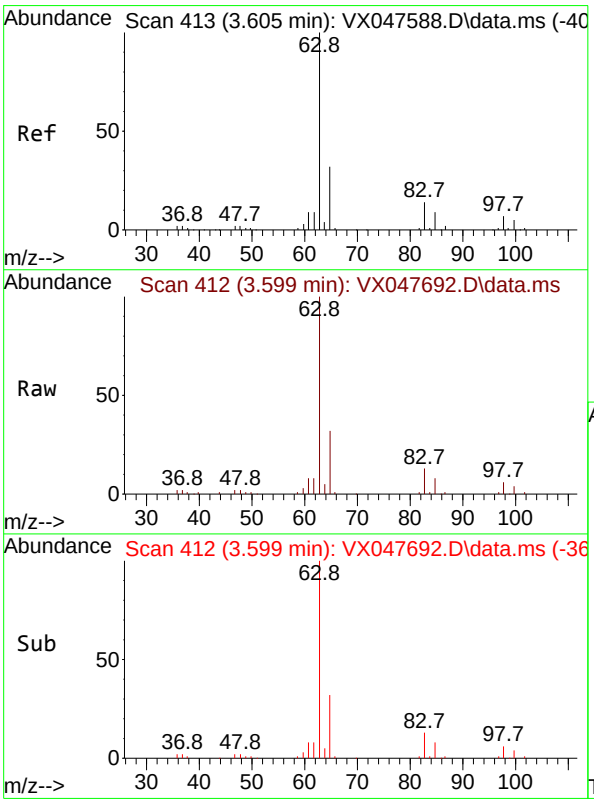
#23
Vinyl Acetate
Concen: 105.372 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 43 Resp: 689485

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8

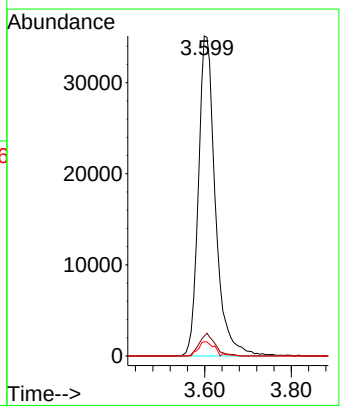


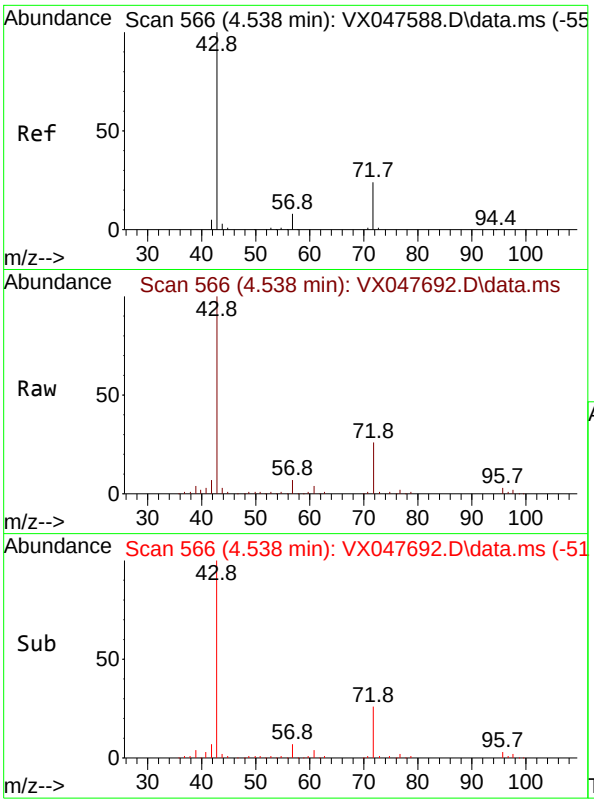


#24
1,1-Dichloroethane
Concen: 21.982 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 63 Resp: 95520

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.4	2.3	6.9



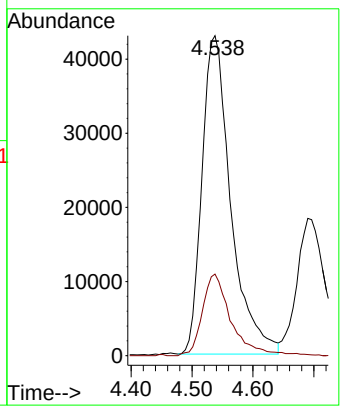


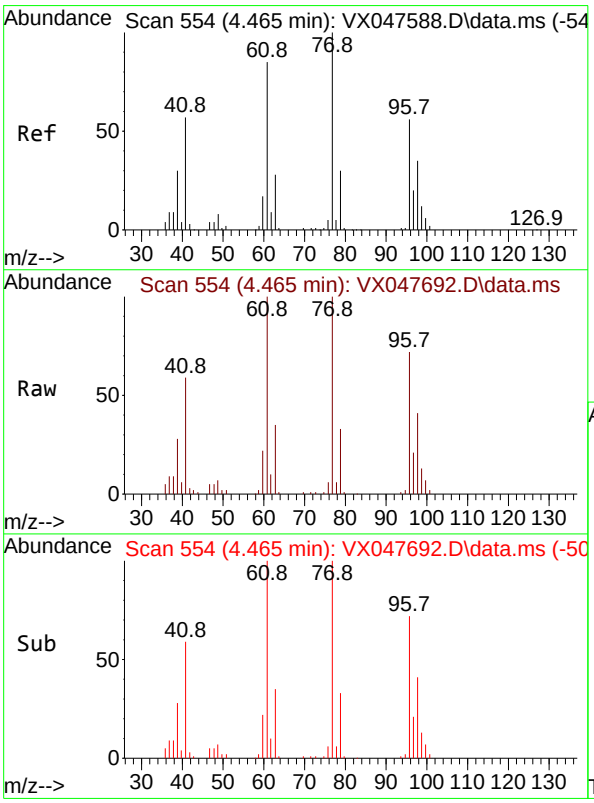
#25
2-Butanone
Concen: 95.121 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 43 Resp: 141299

Ion	Ratio	Lower	Upper
43	100		
72	25.3	20.1	30.1

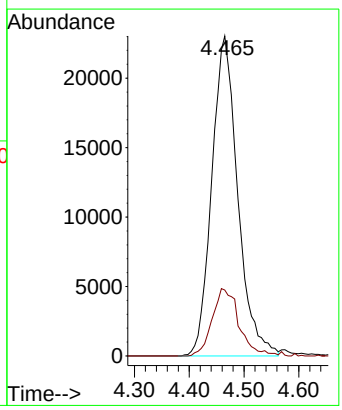


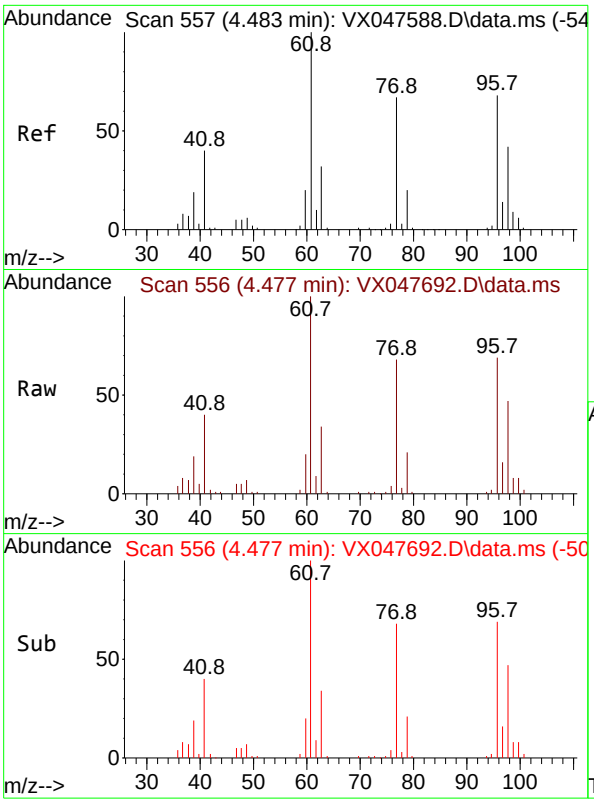


#26
2,2-Dichloropropane
Concen: 20.998 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 77 Resp: 75850

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.9	32.7



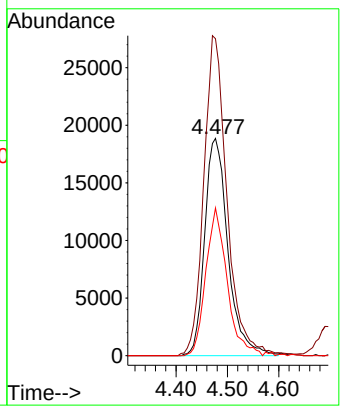


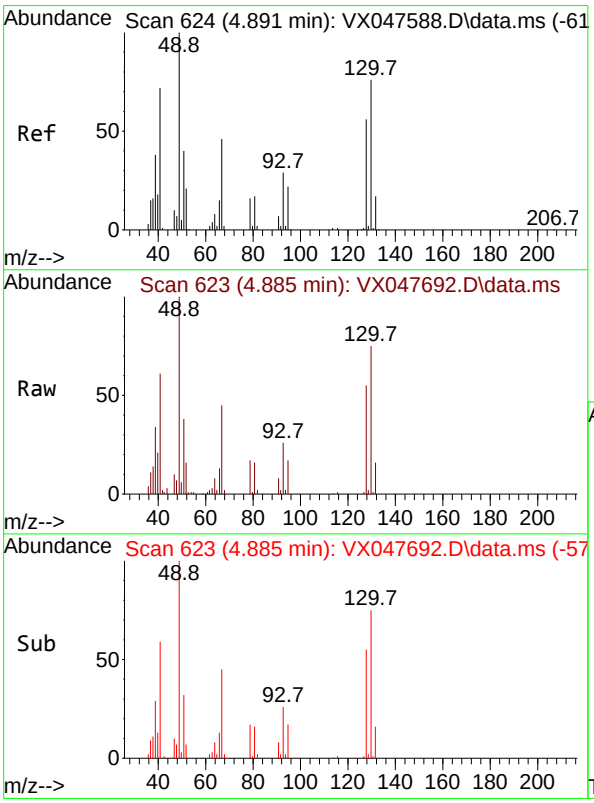
#27
cis-1,2-Dichloroethene
Concen: 21.995 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 96 Resp: 59288

Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	303.2
98	62.3	0.0	127.8

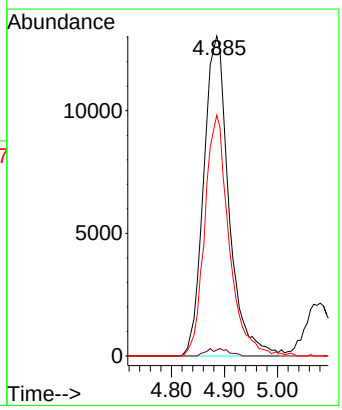


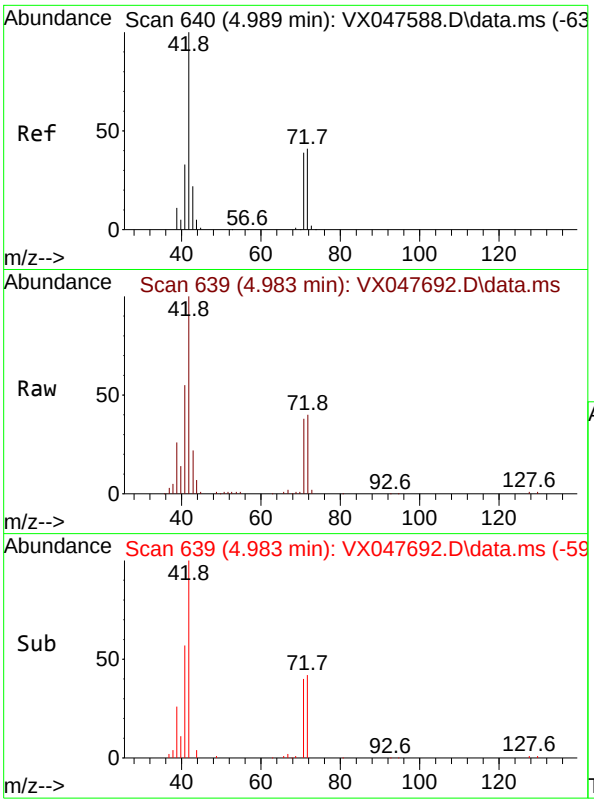


#28
Bromochloromethane
Concen: 22.649 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 49 Resp: 42966

Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	3.2
130	72.9	57.8	86.8



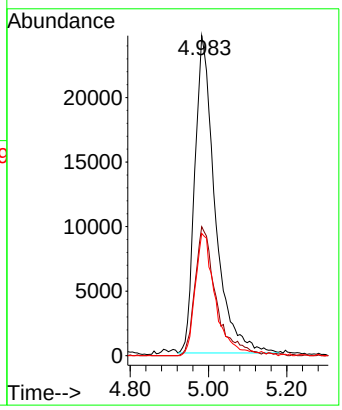


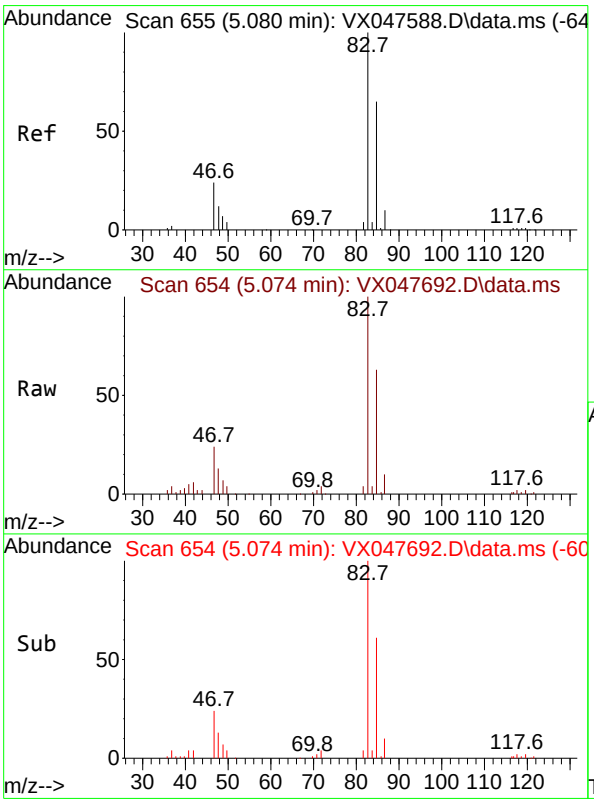
#29
Tetrahydrofuran
Concen: 98.972 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 42 Resp: 88443

Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.2	51.2
71	38.4	31.9	47.9

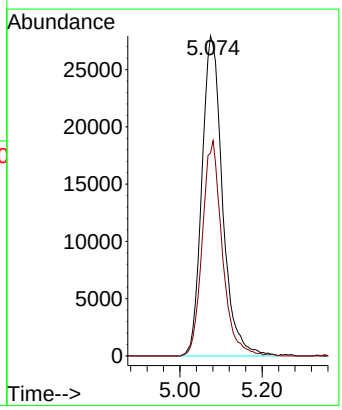


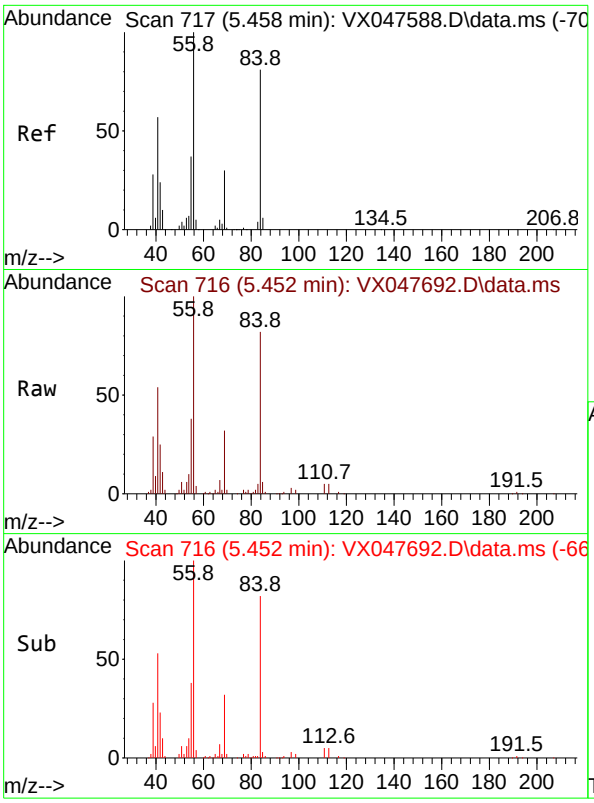


#30
Chloroform
Concen: 22.115 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 83 Resp: 97110

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6



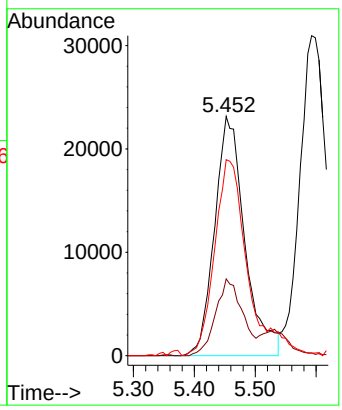


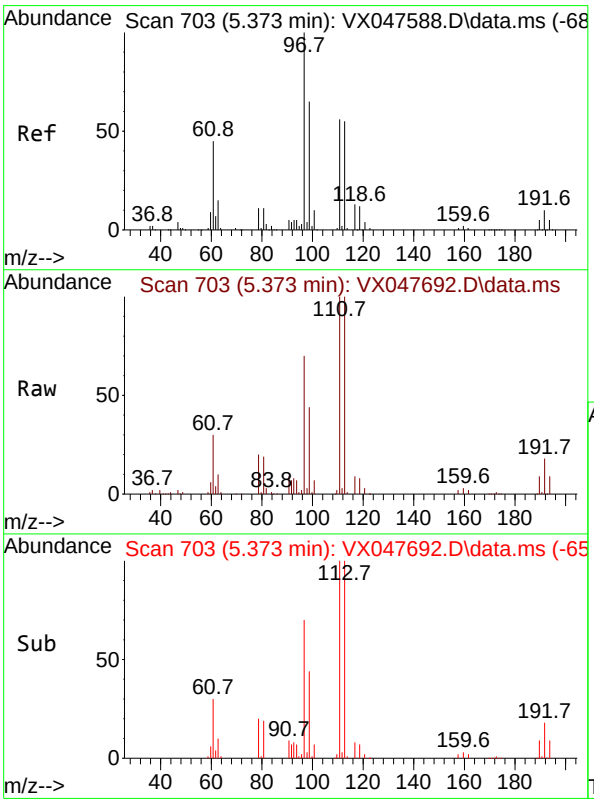
#31
Cyclohexane
Concen: 21.972 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 56 Resp: 79522

Ion	Ratio	Lower	Upper
56	100		
69	31.6	23.8	35.8
84	79.7	64.6	97.0

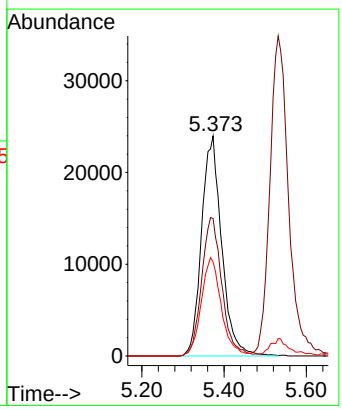


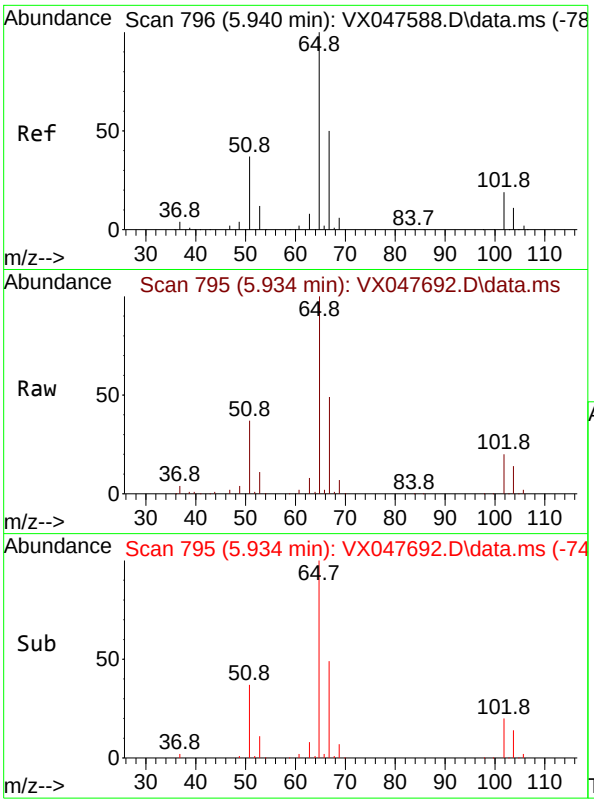


#32
1,1,1-Trichloroethane
Concen: 21.869 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 97 Resp: 81455

Ion	Ratio	Lower	Upper
97	100		
99	62.8	50.6	76.0
61	44.6	35.8	53.8



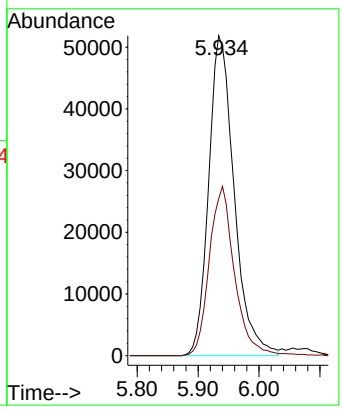


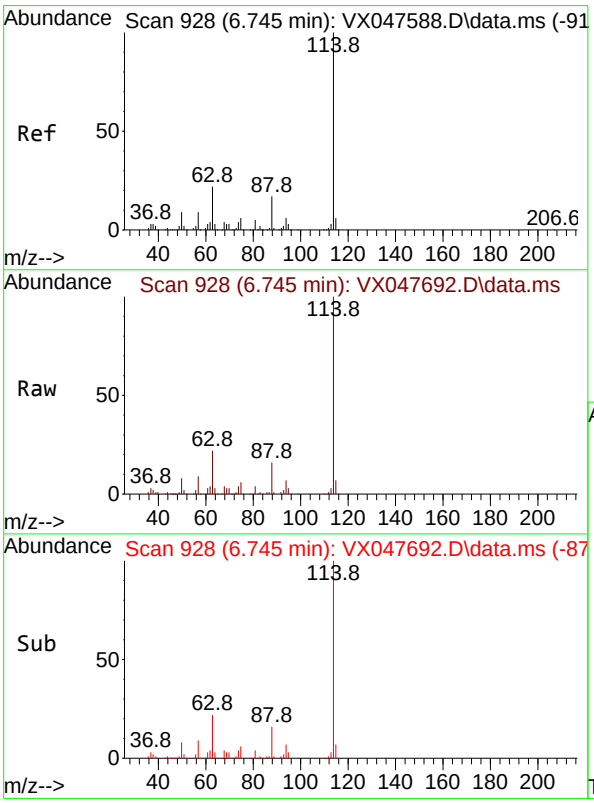
#33
1,2-Dichloroethane-d4
Concen: 55.114 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 65 Resp: 150951

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	103.0

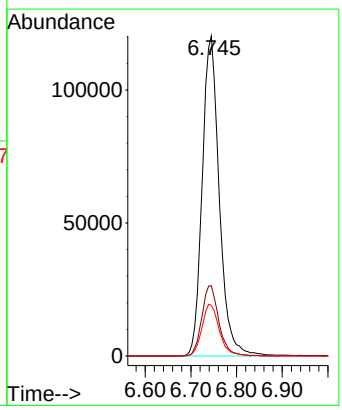


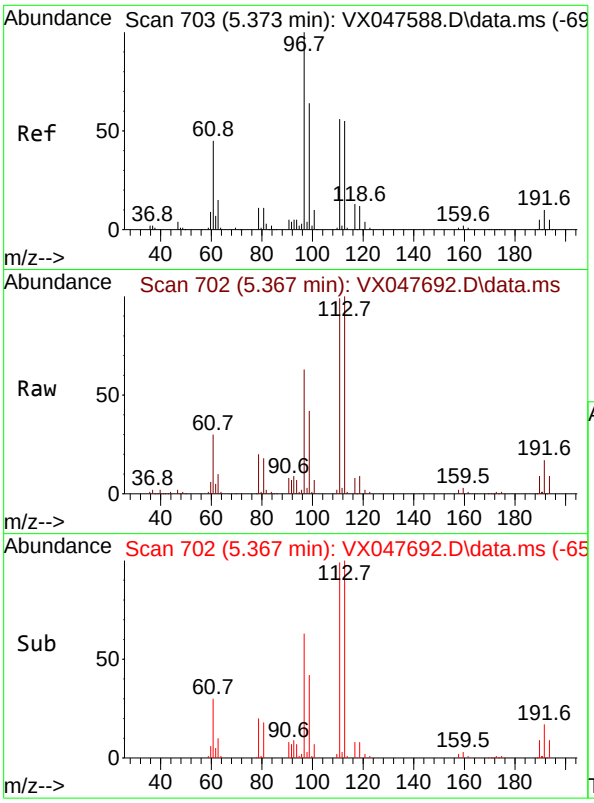


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:114 Resp: 311516

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.0
88	15.8	0.0	34.2



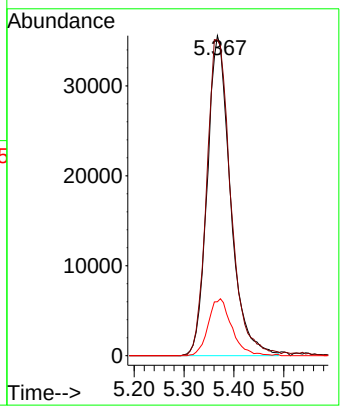


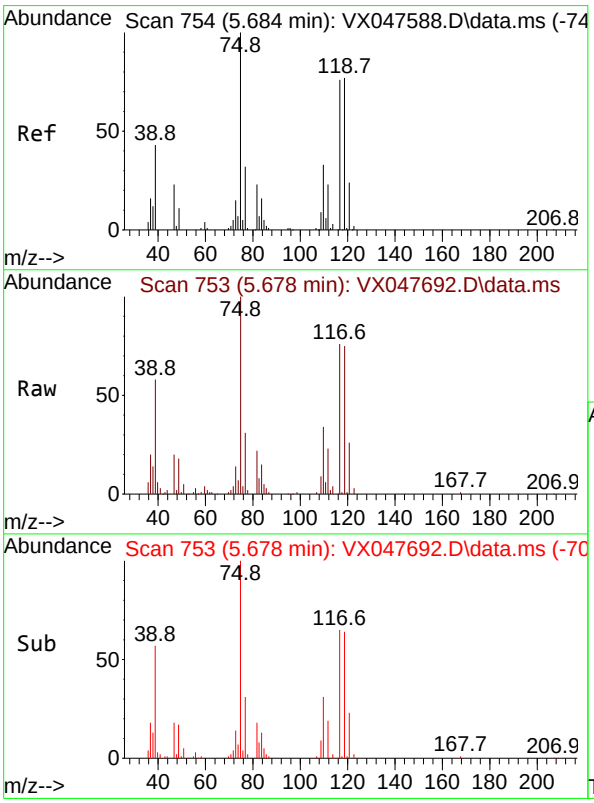
#35
Dibromofluoromethane
Concen: 54.973 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:113 Resp: 114849

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.9	121.3
192	18.0	14.2	21.4

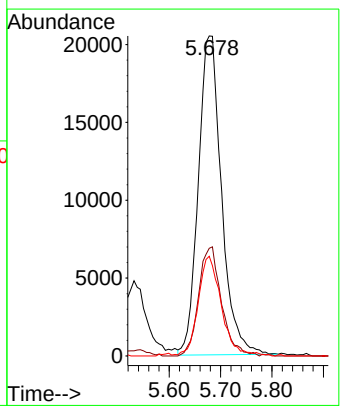


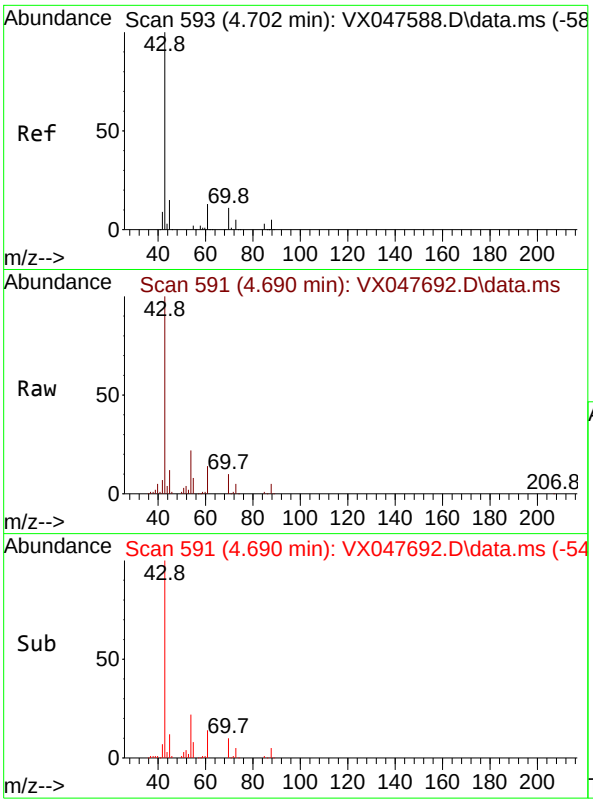


#36
1,1-Dichloropropene
Concen: 21.061 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 64296

Ion	Ratio	Lower	Upper
75	100		
110	33.6	16.7	50.1
77	31.0	24.3	36.5



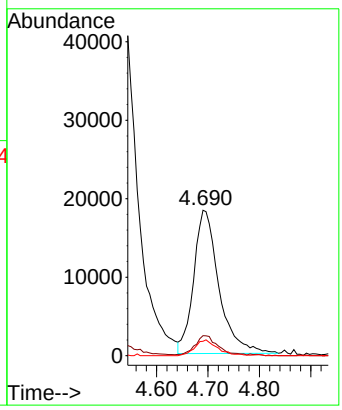


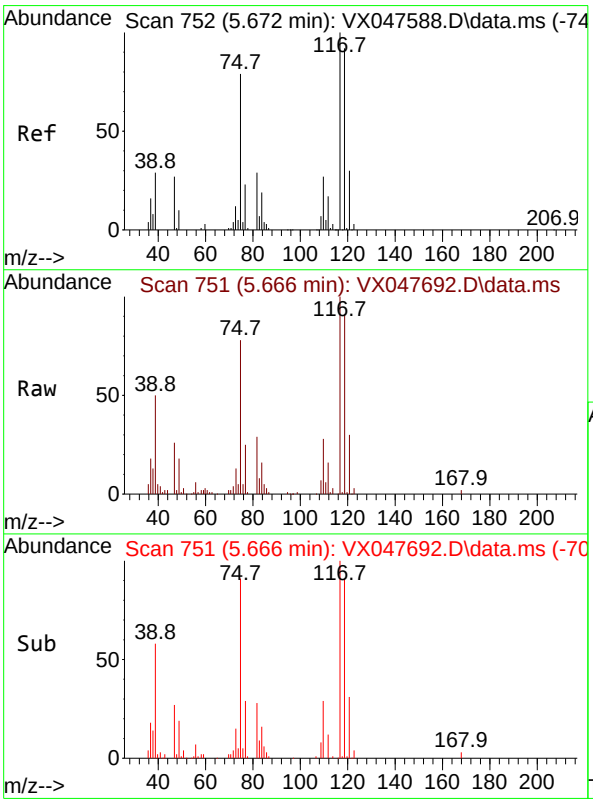
#37
Ethyl Acetate
Concen: 19.111 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 43 Resp: 62468

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	9.9	7.9	11.9

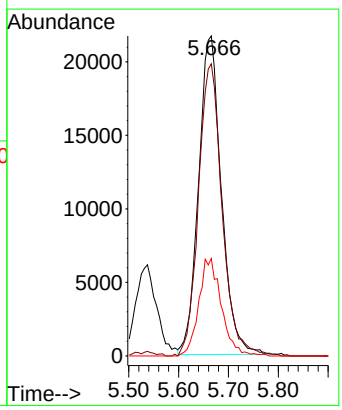


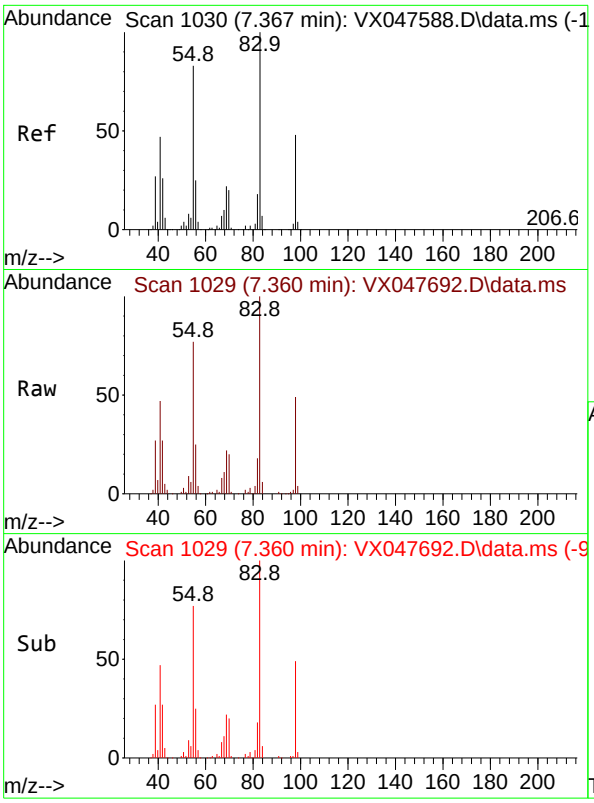


#38
Carbon Tetrachloride
Concen: 20.756 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:117 Resp: 68845

Ion	Ratio	Lower	Upper
117	100		
119	91.8	73.4	110.2
121	30.6	23.8	35.6



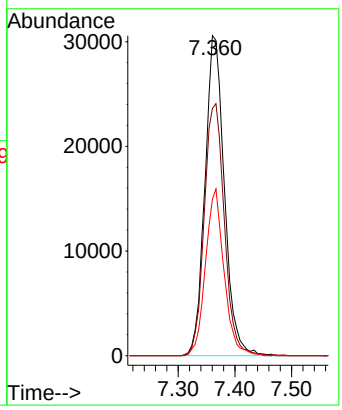


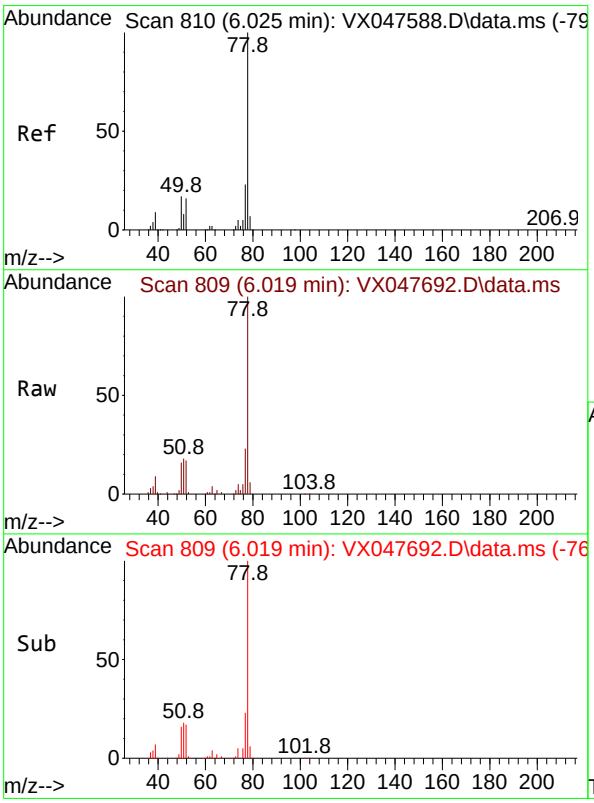
#39
Methylcyclohexane
Concen: 21.057 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 83 Resp: 72971

Ion	Ratio	Lower	Upper
83	100		
55	77.3	66.4	99.6
98	48.9	38.1	57.1

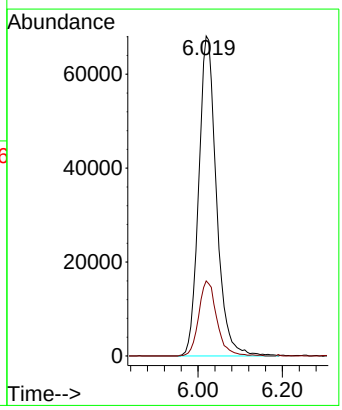


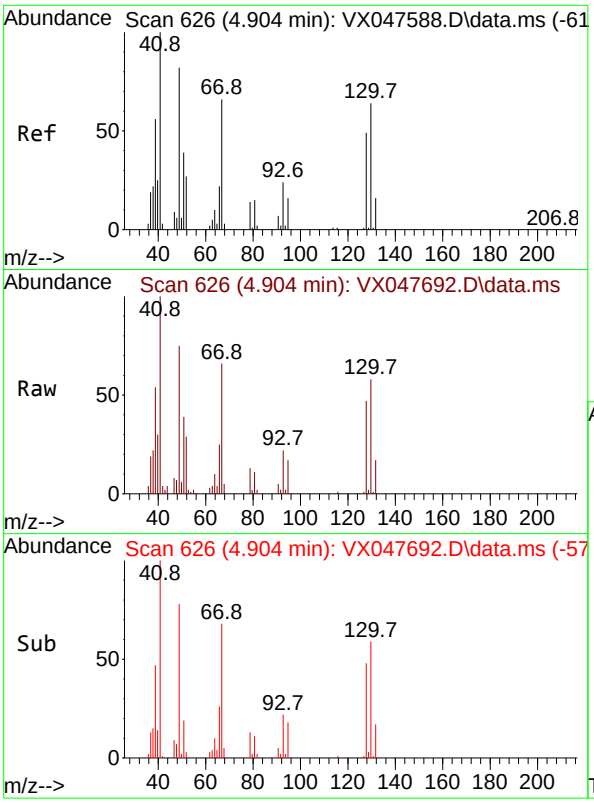


#40
Benzene
Concen: 21.483 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 78 Resp: 199198

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



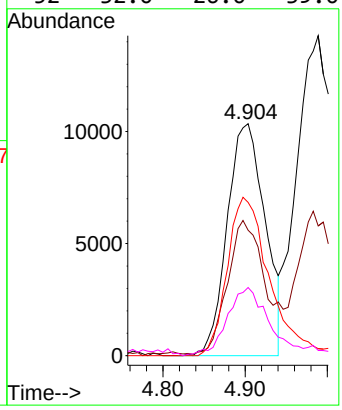


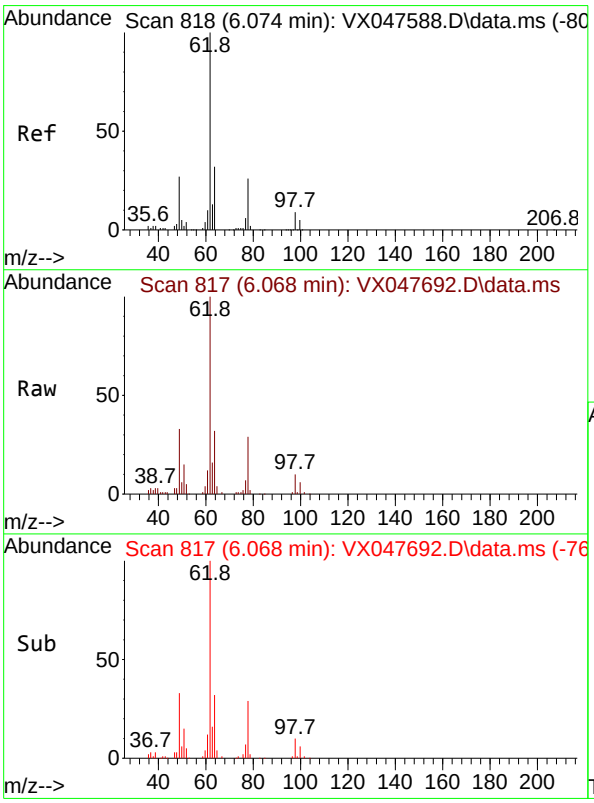
#41
Methacrylonitrile
Concen: 19.708 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 41 Resp: 33257

Ion	Ratio	Lower	Upper
41	100		
39	57.7	43.3	64.9
67	75.3	58.6	87.8
52	32.0	26.0	39.0

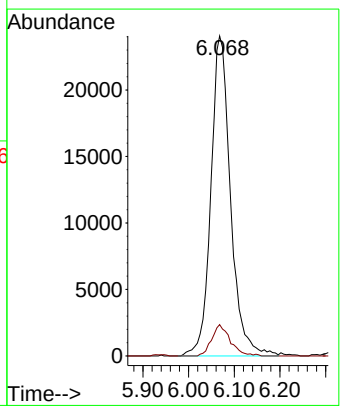


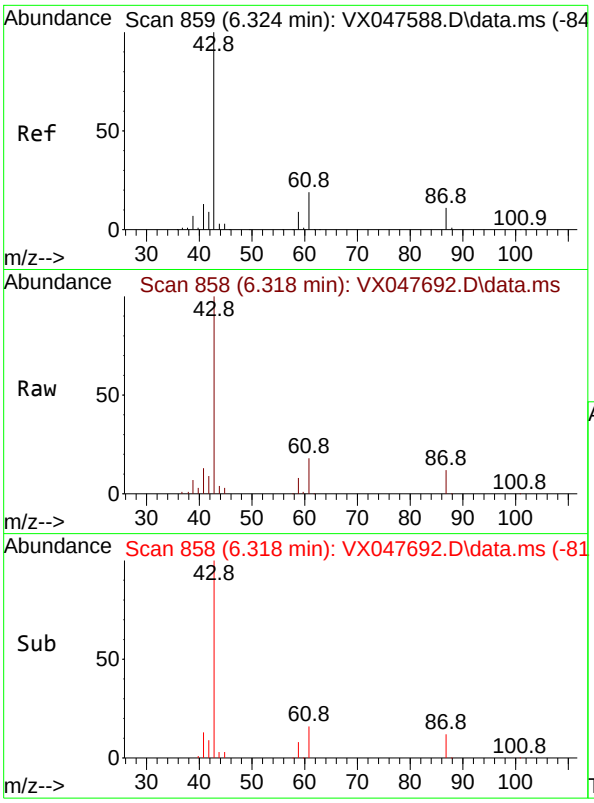


#42
1,2-Dichloroethane
Concen: 20.396 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 62 Resp: 71955

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0



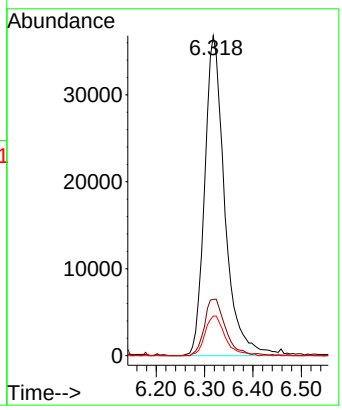


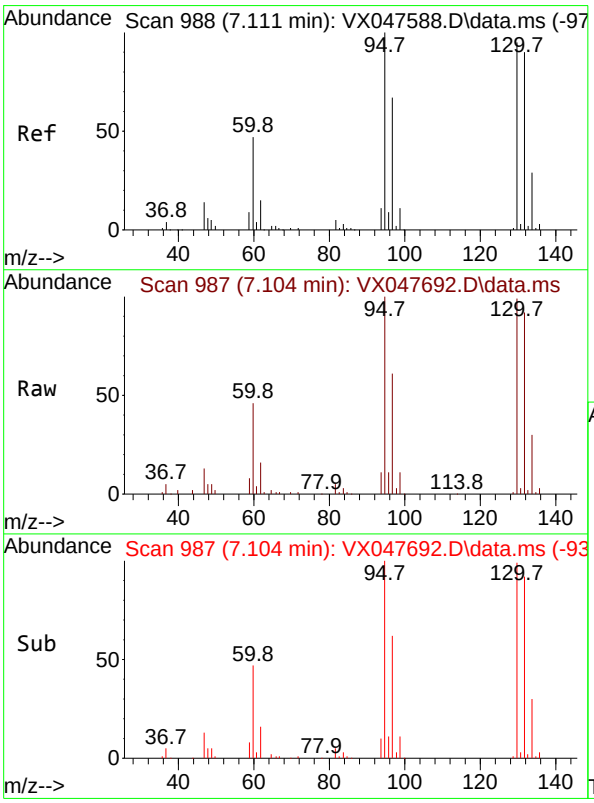
#43
Isopropyl Acetate
Concen: 19.773 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 43 Resp: 105998

Ion	Ratio	Lower	Upper
43	100		
61	18.4	15.2	22.8
87	12.5	9.6	14.4

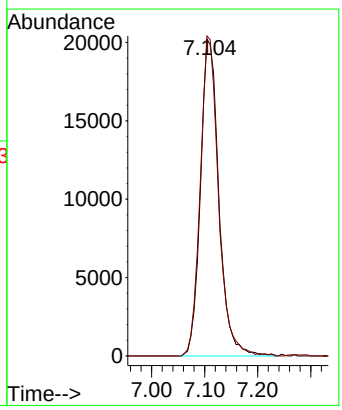


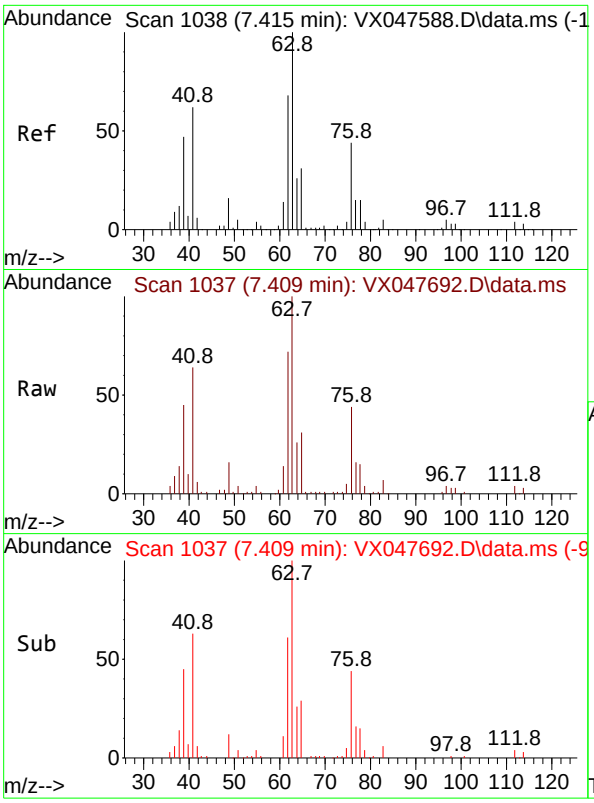


#44
Trichloroethene
Concen: 21.749 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:130 Resp: 48754

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	210.8



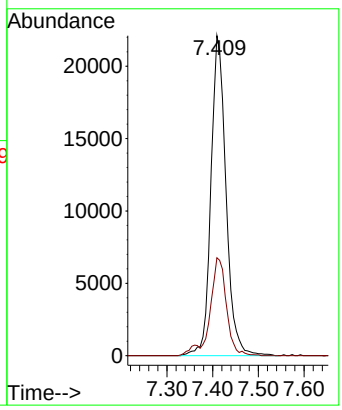


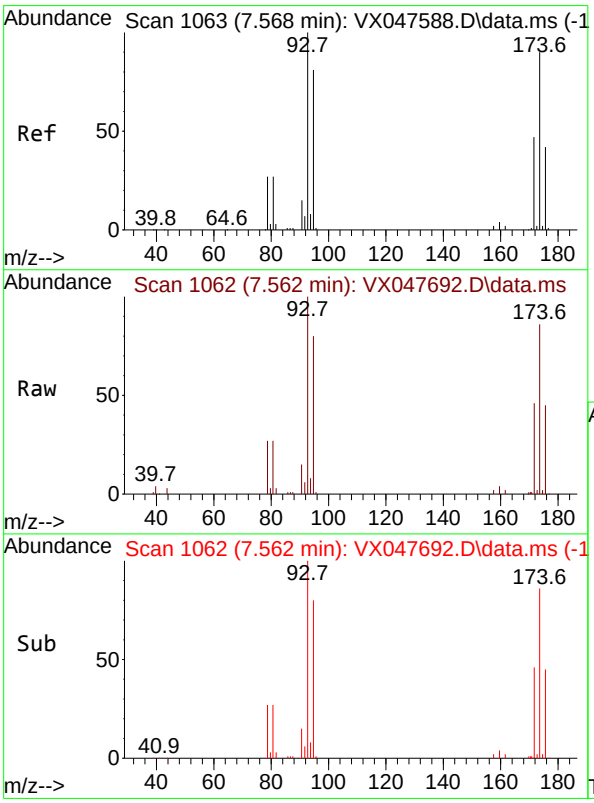
#45
1,2-Dichloropropane
Concen: 21.367 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 63 Resp: 50730

Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.7	37.1

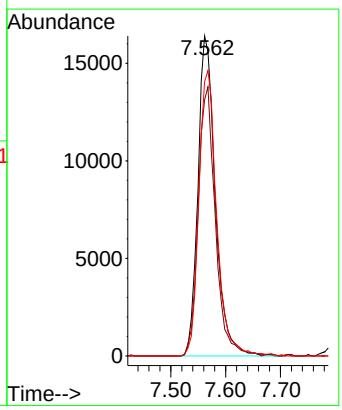


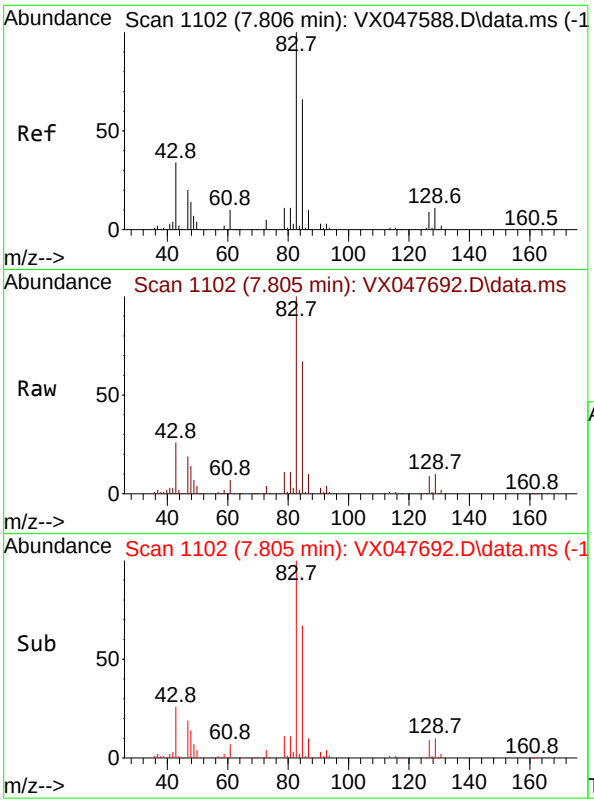


#46
Dibromomethane
Concen: 20.881 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 93 Resp: 36077

Ion	Ratio	Lower	Upper
93	100		
95	83.1	65.0	97.6
174	91.6	71.6	107.4



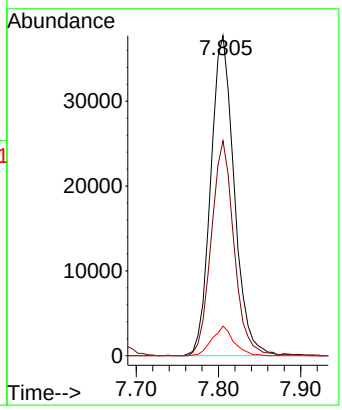


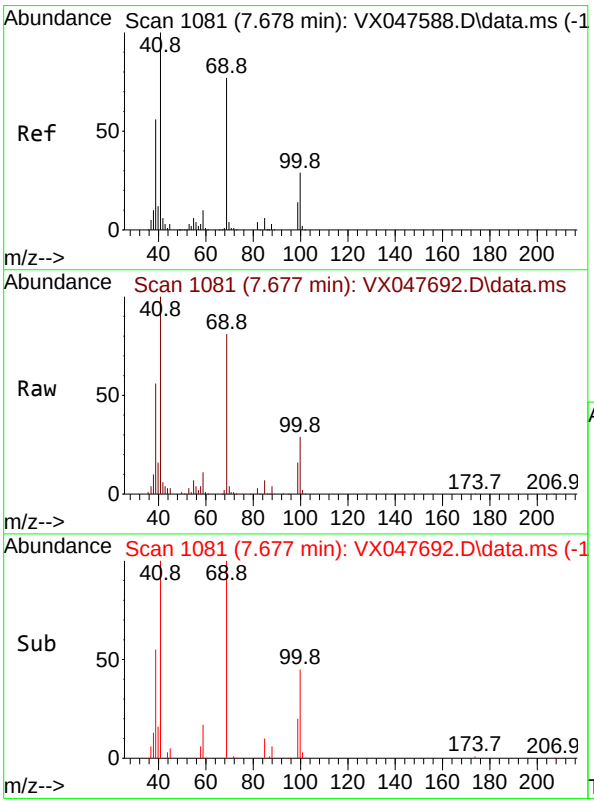
#47
Bromodichloromethane
Concen: 20.997 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 83 Resp: 74860

Ion	Ratio	Lower	Upper
83	100		
85	67.2	52.5	78.7
127	9.3	6.9	10.3

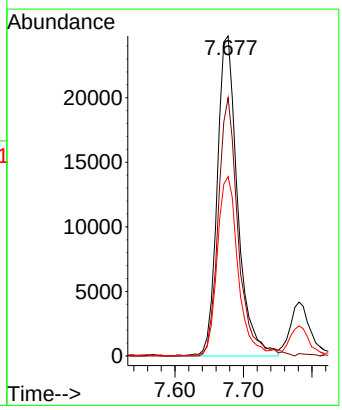


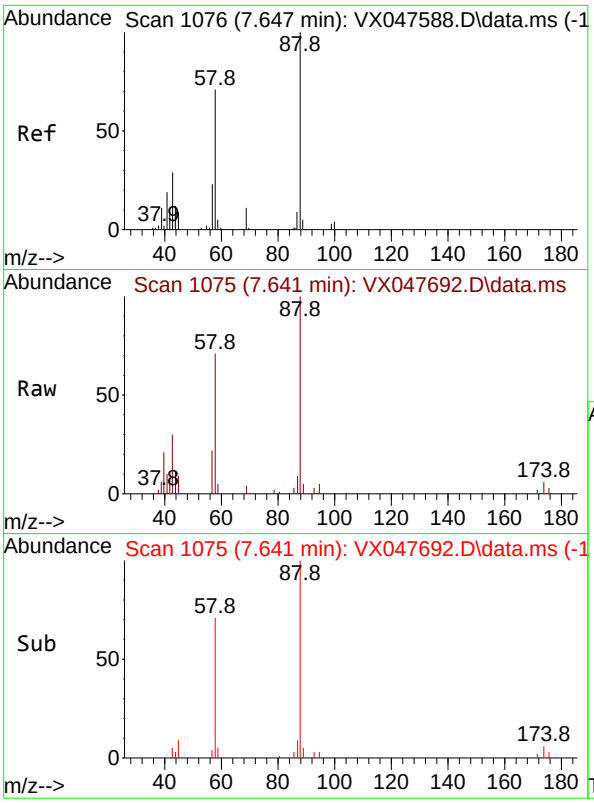


#48
Methyl methacrylate
Concen: 19.152 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 41 Resp: 51141

Ion	Ratio	Lower	Upper
41	100		
69	78.6	61.4	92.2
39	57.2	45.8	68.6



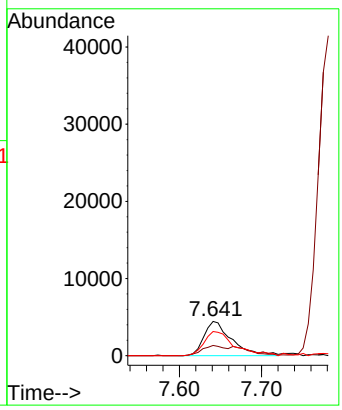


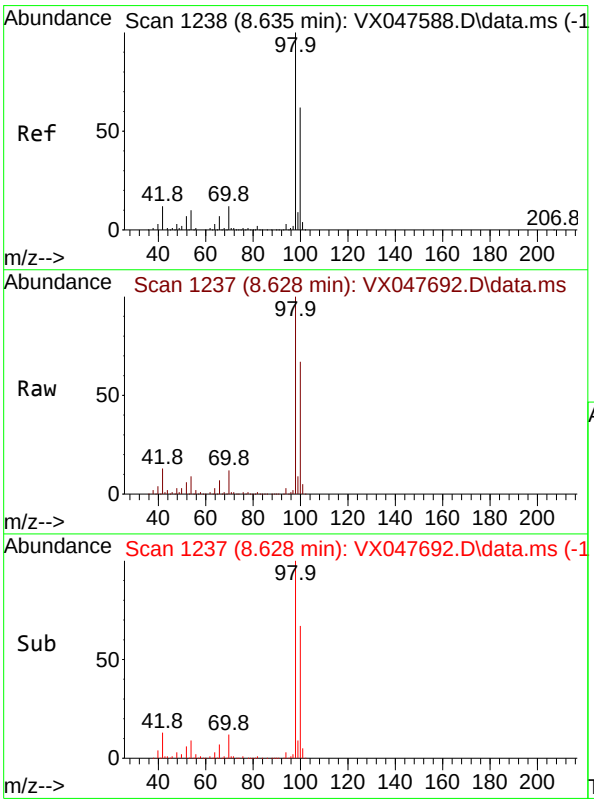
#49
1,4-Dioxane
Concen: 388.865 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 88 Resp: 10494

Ion	Ratio	Lower	Upper
88	100		
43	25.0	30.2	45.2#
58	76.3	59.5	89.3

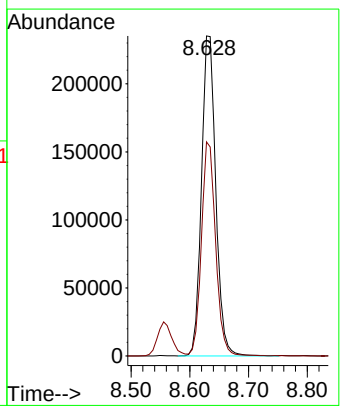


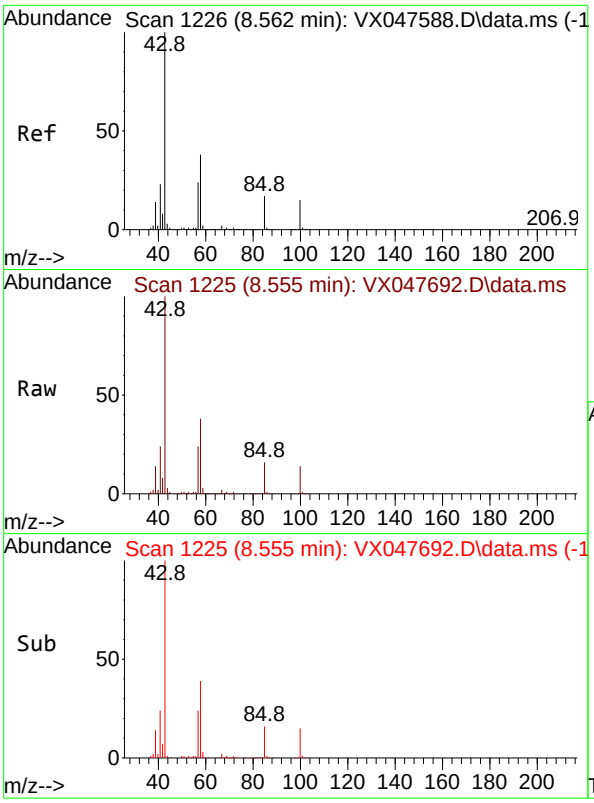


#50
Toluene-d8
Concen: 54.922 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 98 Resp: 397036

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.4



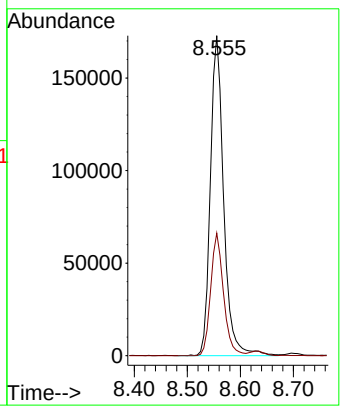


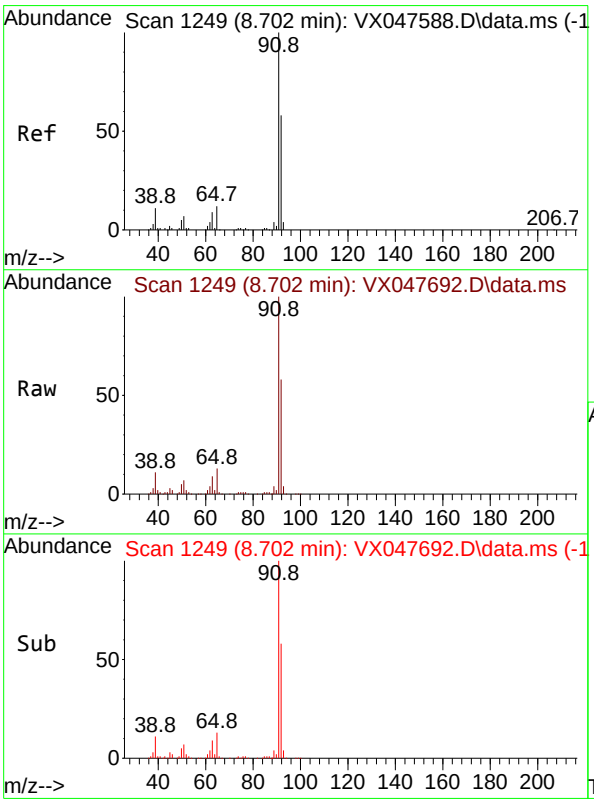
#51
4-Methyl-2-Pentanone
Concen: 101.277 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 43 Resp: 301025

Ion	Ratio	Lower	Upper
43	100		
58	37.1	30.3	45.5

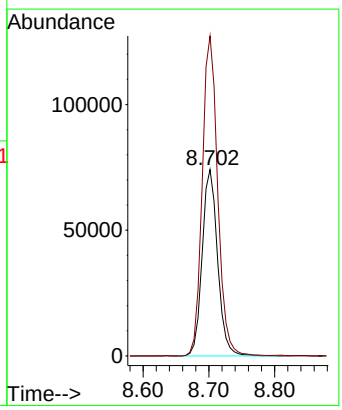


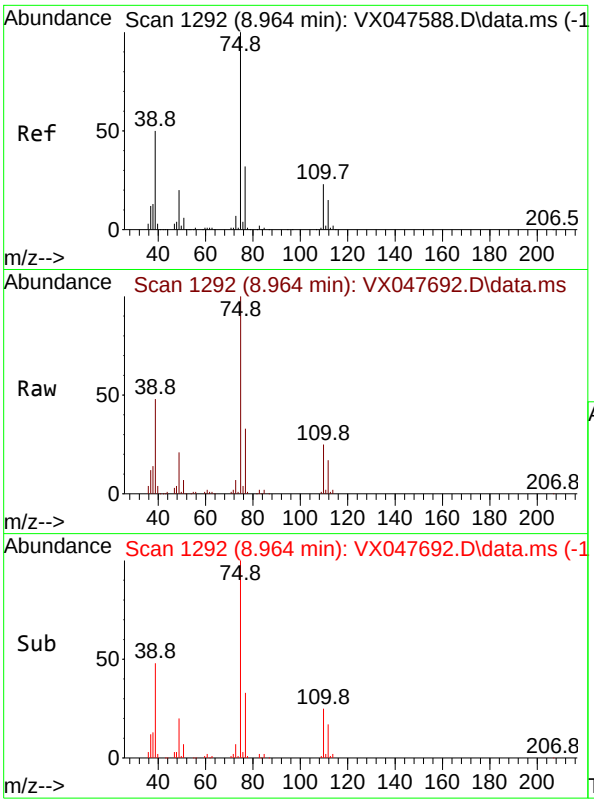


#52
Toluene
Concen: 21.175 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 92 Resp: 120963

Ion	Ratio	Lower	Upper
92	100		
91	172.2	137.1	205.7



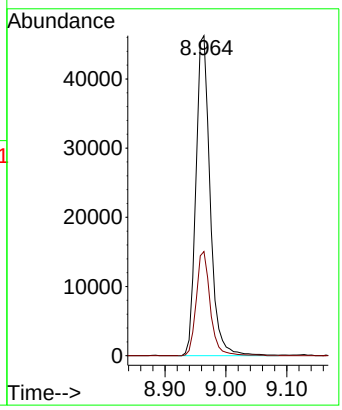


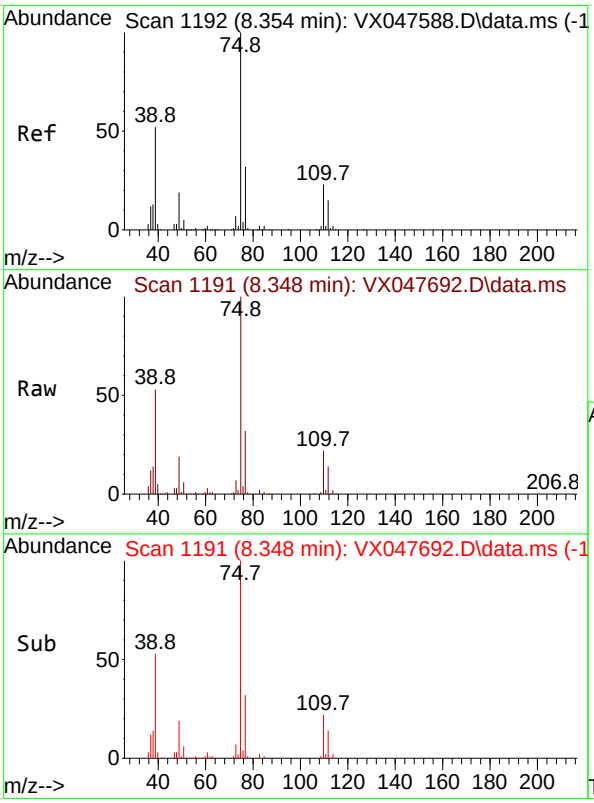
#53
t-1,3-Dichloropropene
Concen: 20.577 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 75 Resp: 74830

Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.4	38.2

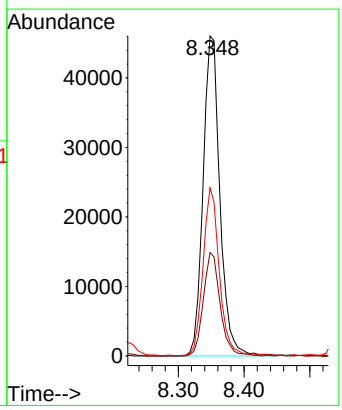


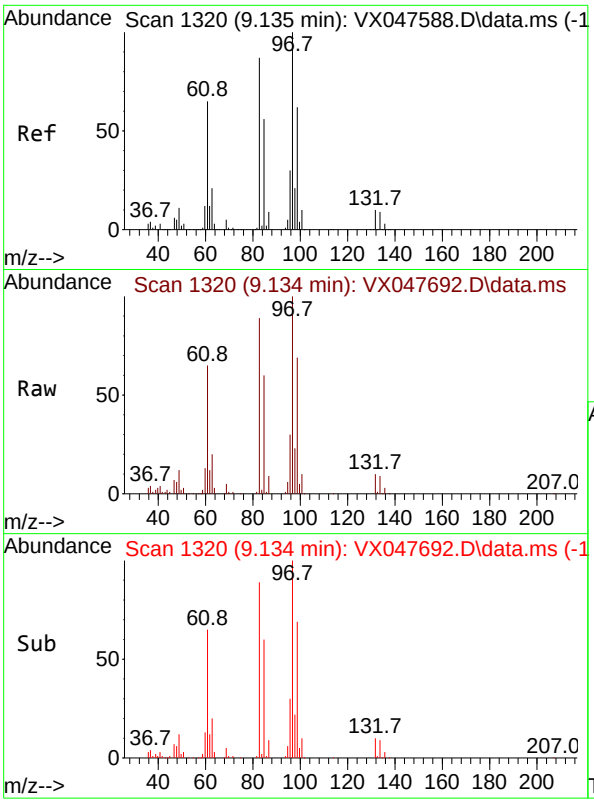


#54
cis-1,3-Dichloropropene
Concen: 21.115 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 82076

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	52.2	41.4	62.2



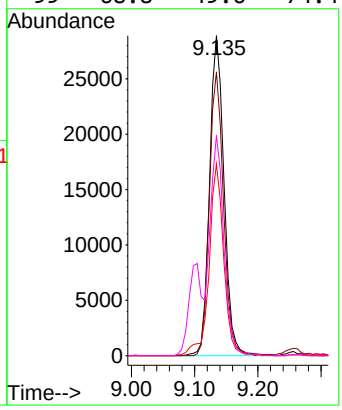


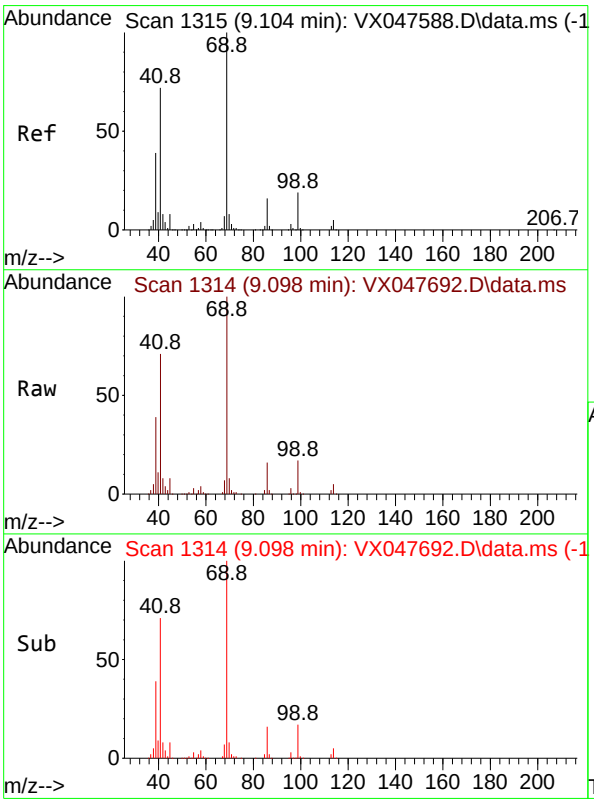
#55
1,1,2-Trichloroethane
Concen: 20.933 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 97 Resp: 46109

Ion	Ratio	Lower	Upper
97	100		
83	88.7	69.6	104.4
85	59.7	45.0	67.6
99	68.8	49.6	74.4

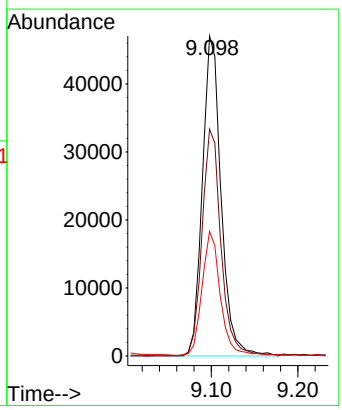


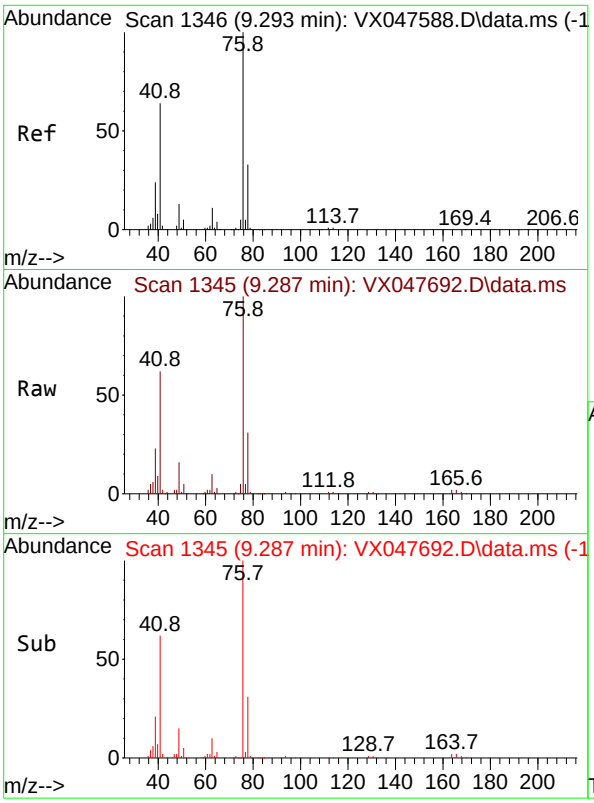


#56
Ethyl methacrylate
Concen: 20.390 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 69 Resp: 70536

Ion	Ratio	Lower	Upper
69	100		
41	71.4	58.6	87.8
39	38.3	31.5	47.3



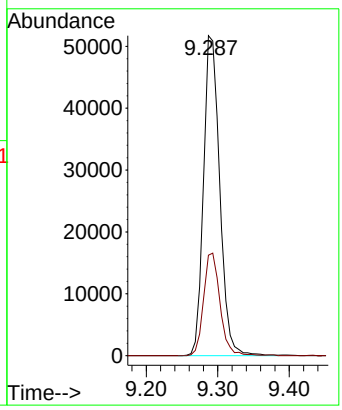


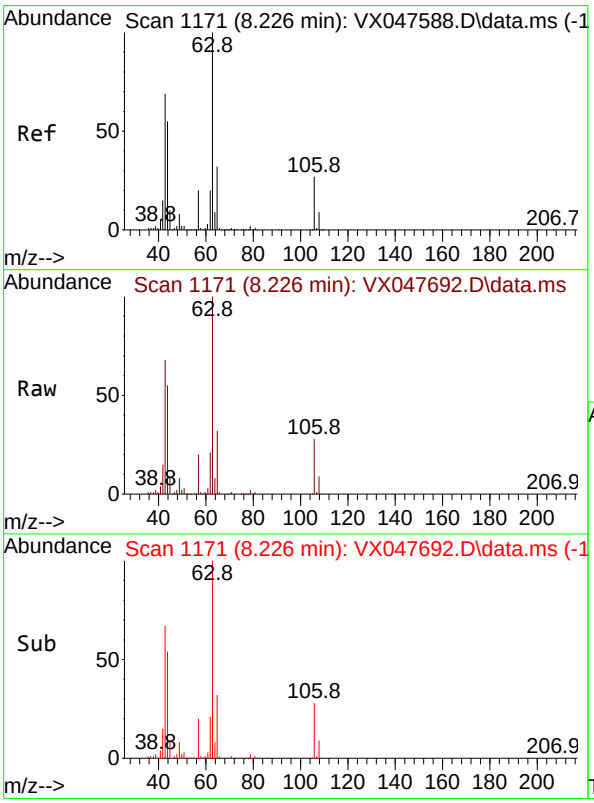
#57
1,3-Dichloropropane
Concen: 21.589 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 76 Resp: 81692

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4

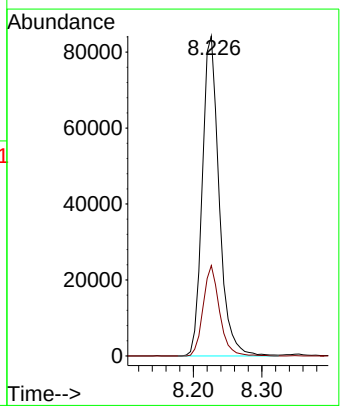


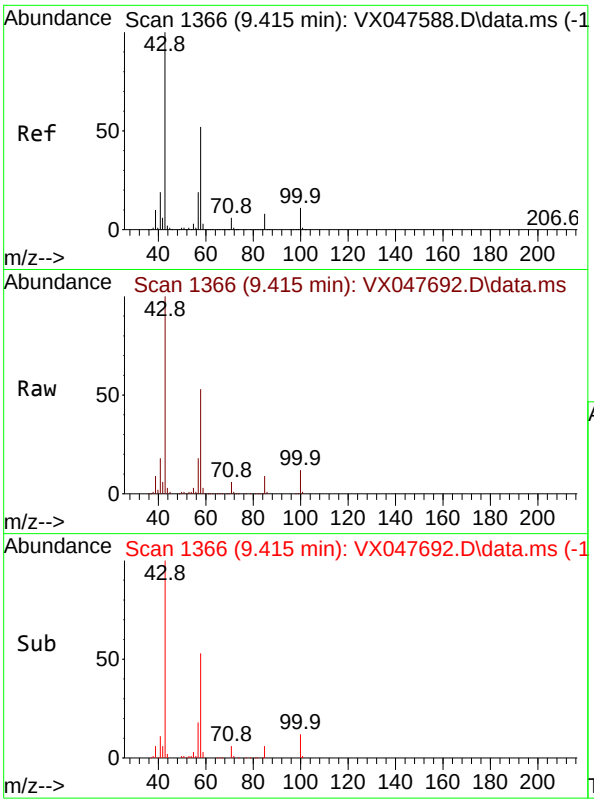


#58
2-Chloroethyl Vinyl ether
Concen: 94.402 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 63 Resp: 144109

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.9	32.9



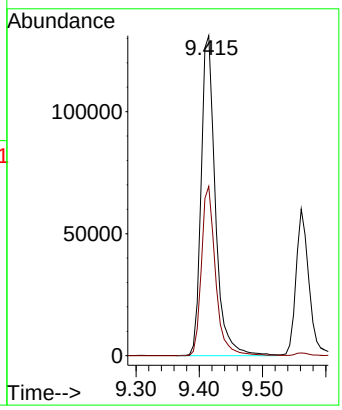


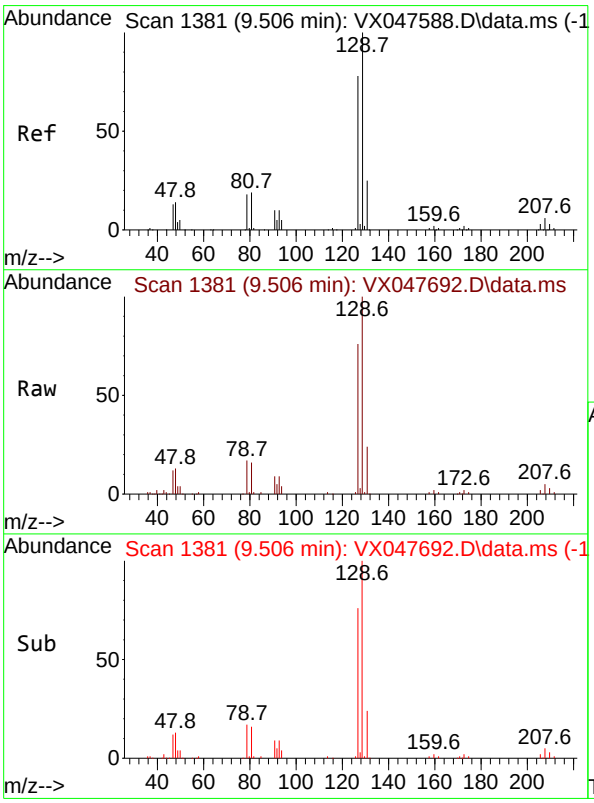
#59
2-Hexanone
Concen: 96.561 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 43 Resp: 206129

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.2

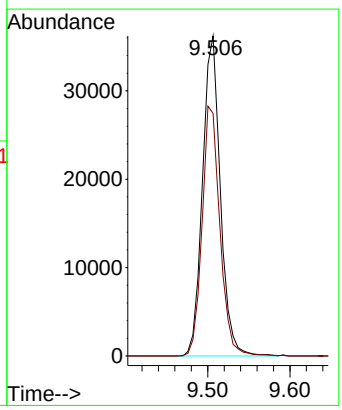


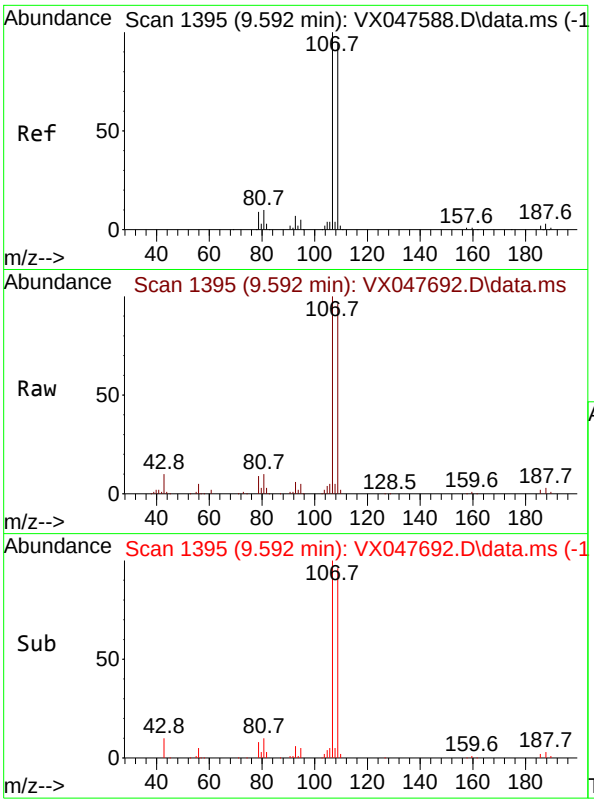


#60
Dibromochloromethane
Concen: 21.491 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:129 Resp: 54546

Ion	Ratio	Lower	Upper
129	100		
127	78.2	38.4	115.2



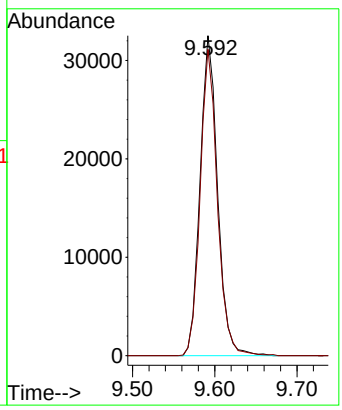


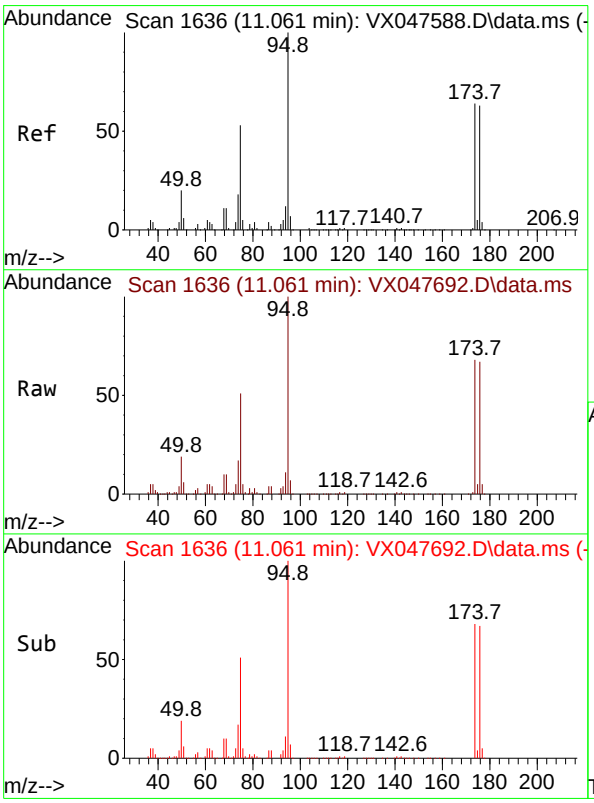
#61
1,2-Dibromoethane
Concen: 21.443 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:107 Resp: 48109

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9

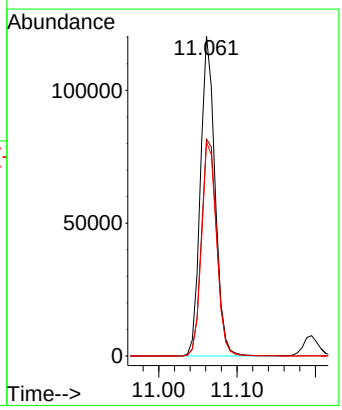


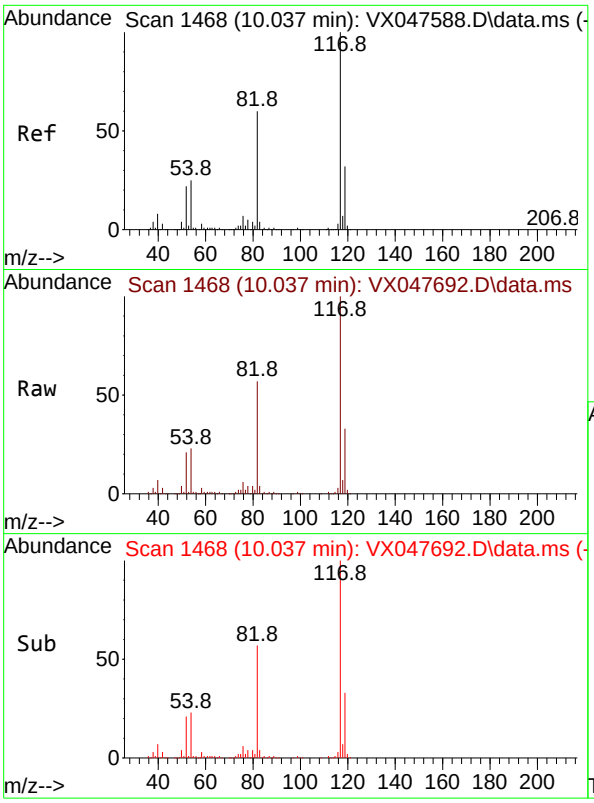


#62
4-Bromofluorobenzene
Concen: 56.816 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 95 Resp: 155877

Ion	Ratio	Lower	Upper
95	100		
174	71.0	0.0	141.6
176	68.5	0.0	138.4



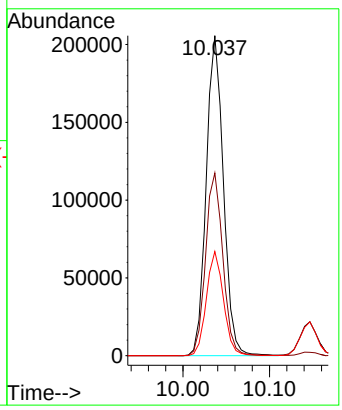


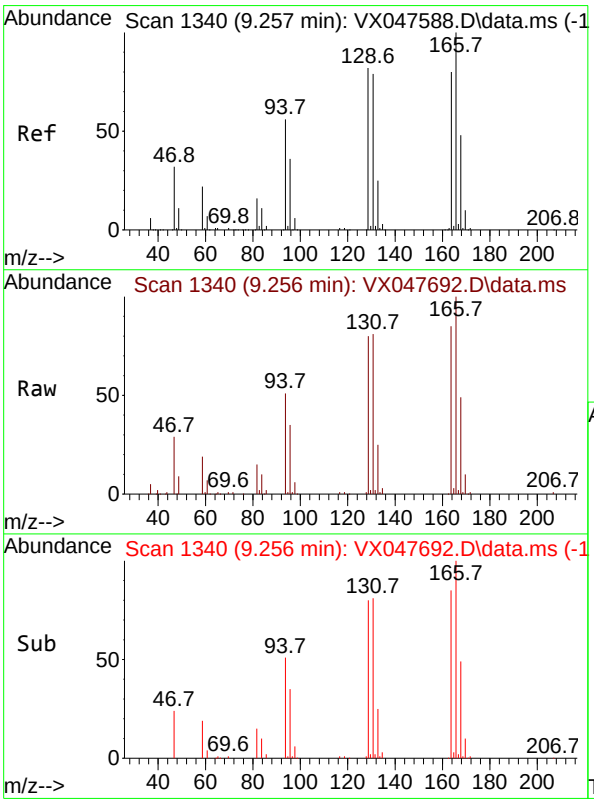
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:117 Resp: 283214

Ion	Ratio	Lower	Upper
117	100		
82	57.1	47.8	71.6
119	32.6	25.2	37.8

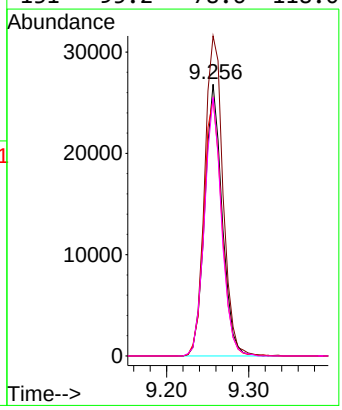


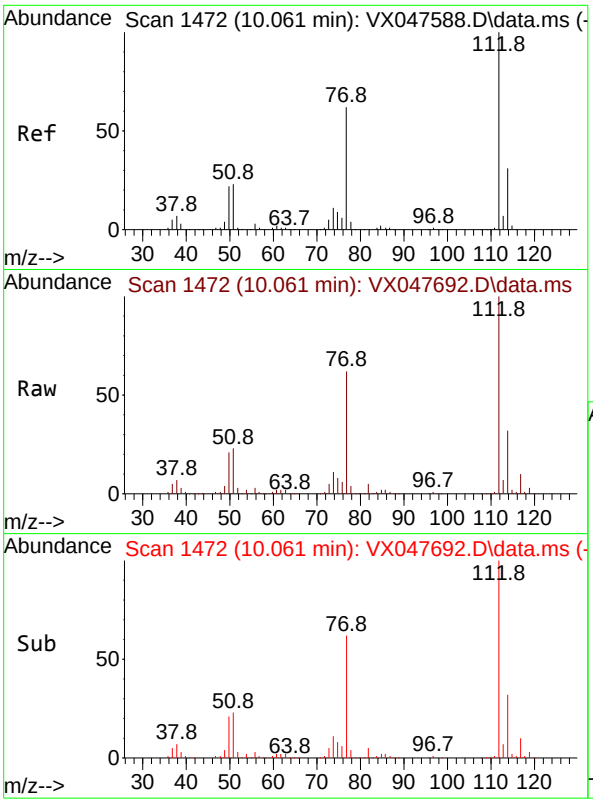


#64
Tetrachloroethene
Concen: 21.330 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:164 Resp: 39380

Ion	Ratio	Lower	Upper
164	100		
166	117.8	100.2	150.2
129	94.7	81.8	122.6
131	95.2	78.6	118.0



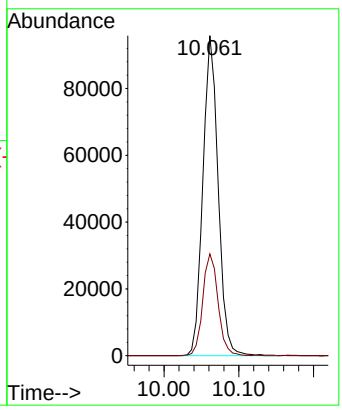


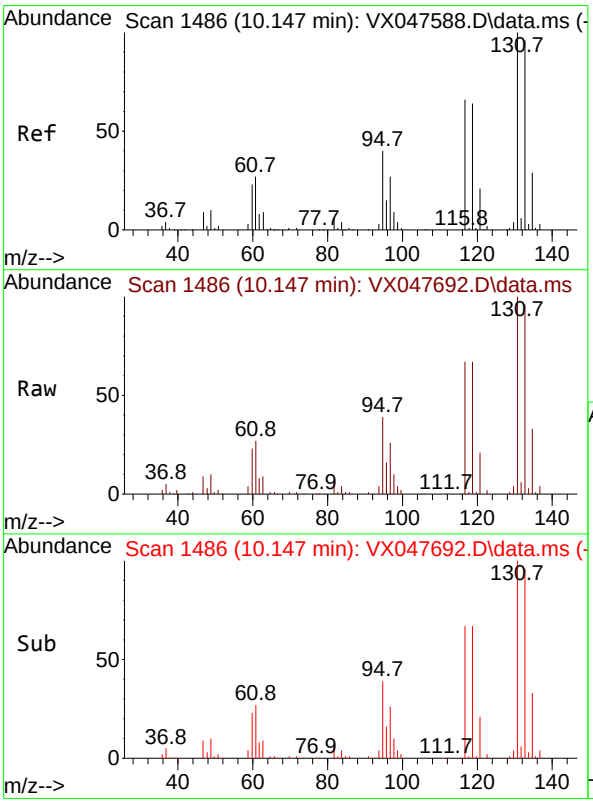
#65
Chlorobenzene
Concen: 21.085 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:112 Resp: 135663

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.1	37.7

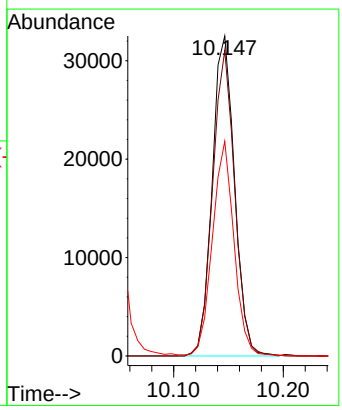


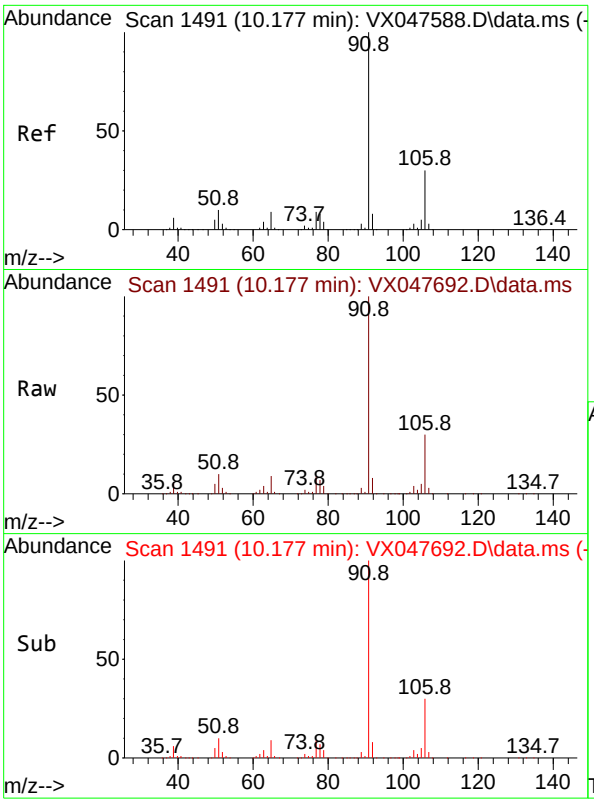


#66
1,1,1,2-Tetrachloroethane
Concen: 20.715 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:131 Resp: 45992

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	142.0
119	65.0	32.0	96.0



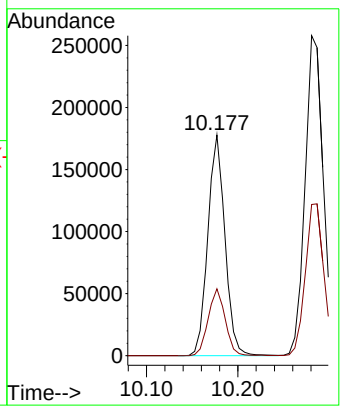


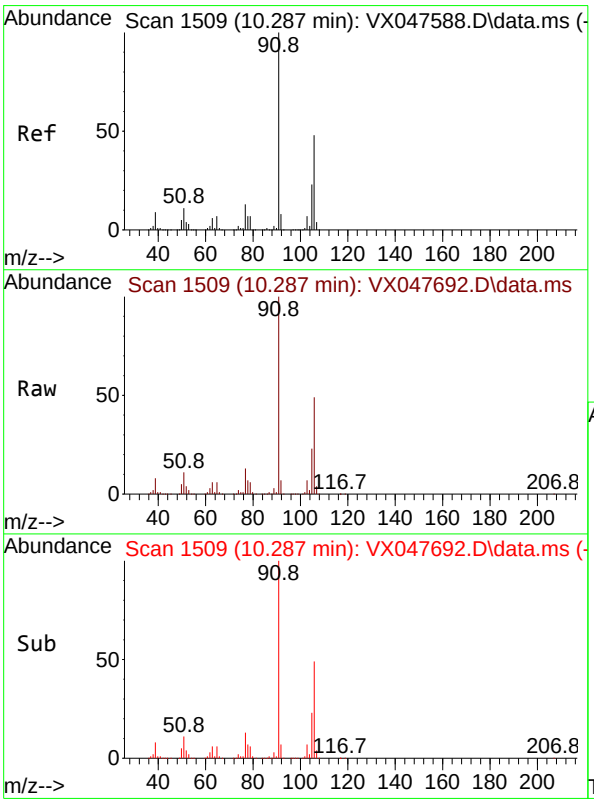
#67
Ethyl Benzene
Concen: 20.809 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 91 Resp: 231008

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

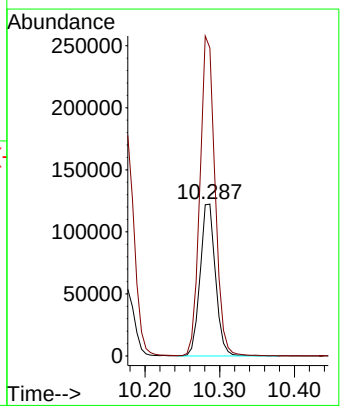


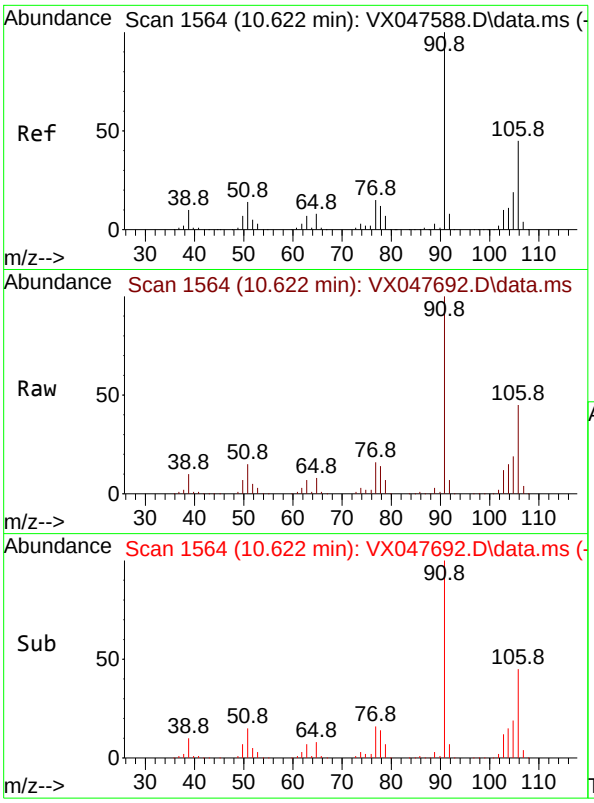


#68
m/p-Xylenes
Concen: 42.274 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:106 Resp: 174681

Ion	Ratio	Lower	Upper
106	100		
91	206.8	167.8	251.8



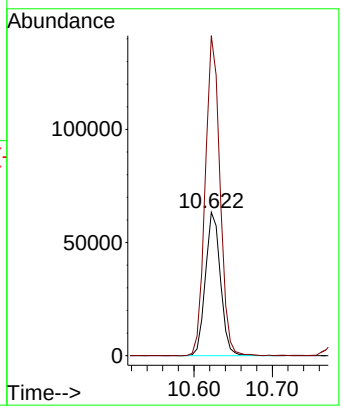


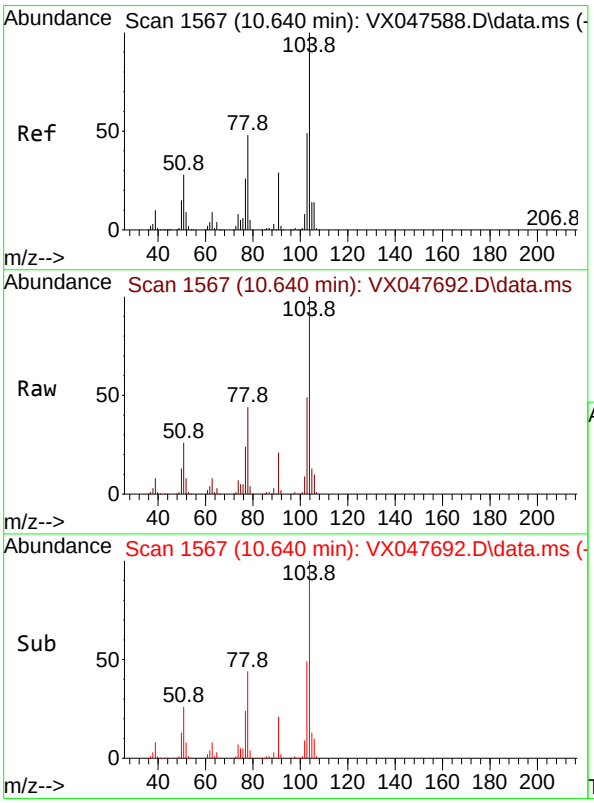
#69
o-Xylene
Concen: 21.029 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:106 Resp: 84047

Ion	Ratio	Lower	Upper
106	100		
91	219.5	111.1	333.4

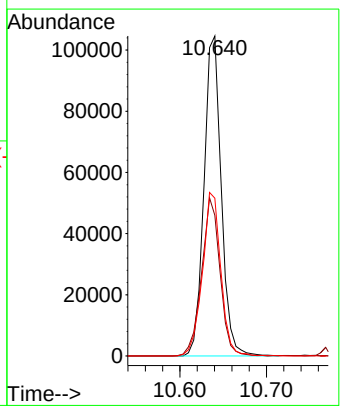


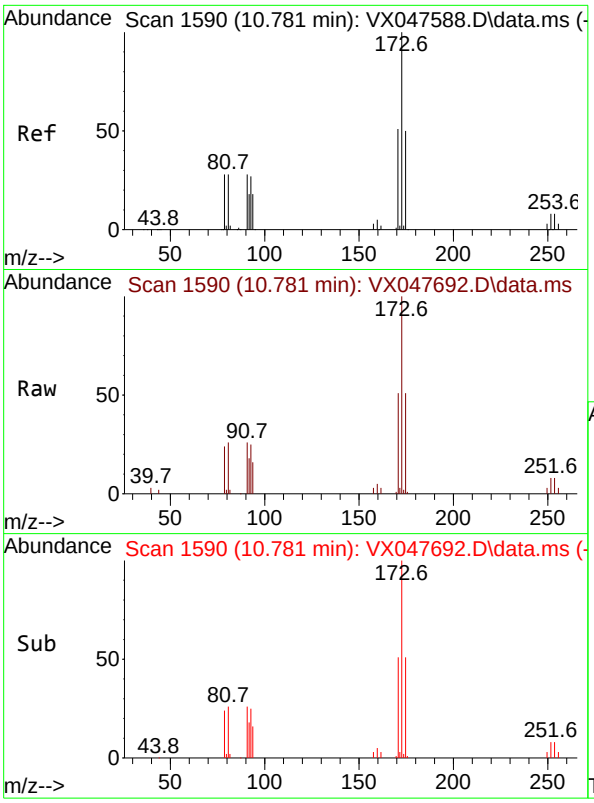


#70
Styrene
Concen: 20.714 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:104 Resp: 145060

Ion	Ratio	Lower	Upper
104	100		
78	52.6	43.1	64.7
103	54.4	43.1	64.7



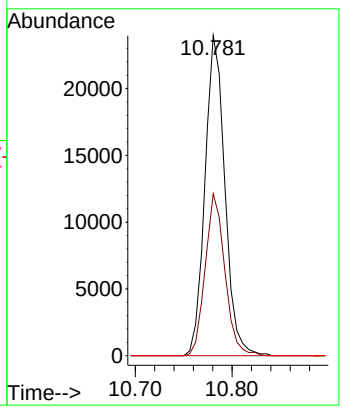


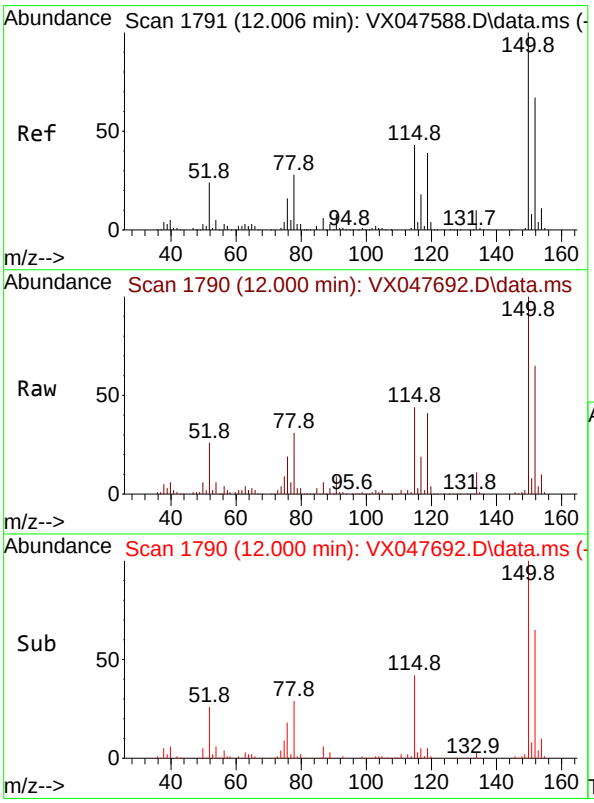
#71
Bromoform
Concen: 20.720 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:173 Resp: 34350

Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.9	74.6
254	0.0	0.1	0.1#

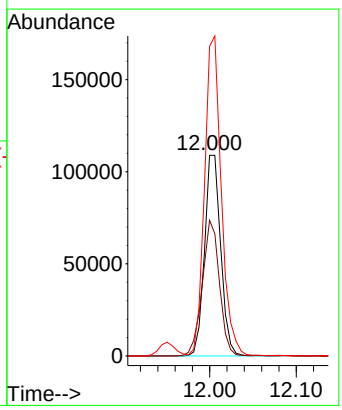


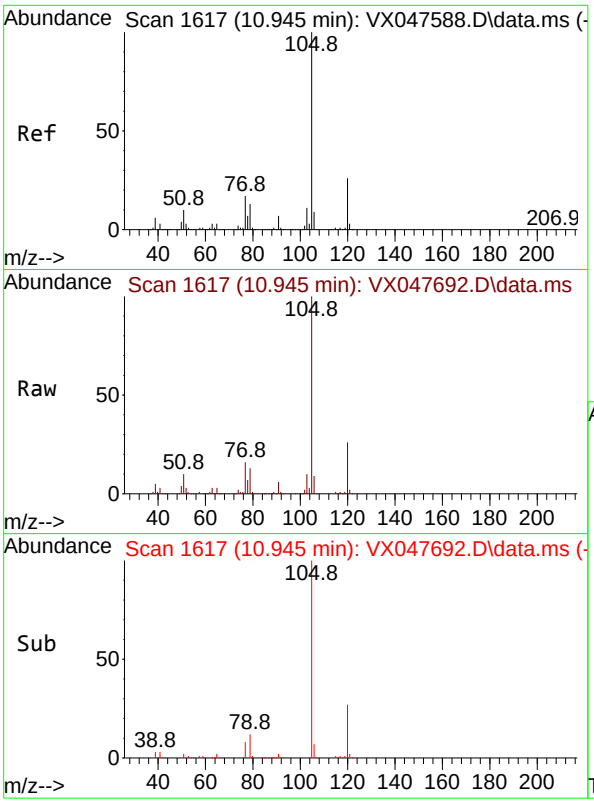


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.000 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:152 Resp: 141526

Ion	Ratio	Lower	Upper
152	100		
115	71.3	44.9	134.5
150	164.5	0.0	352.0



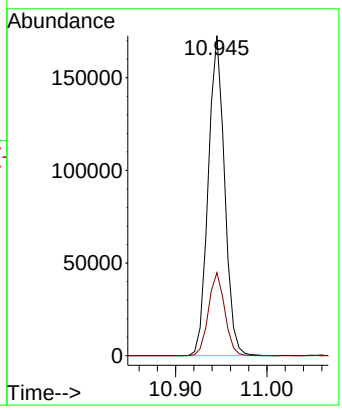


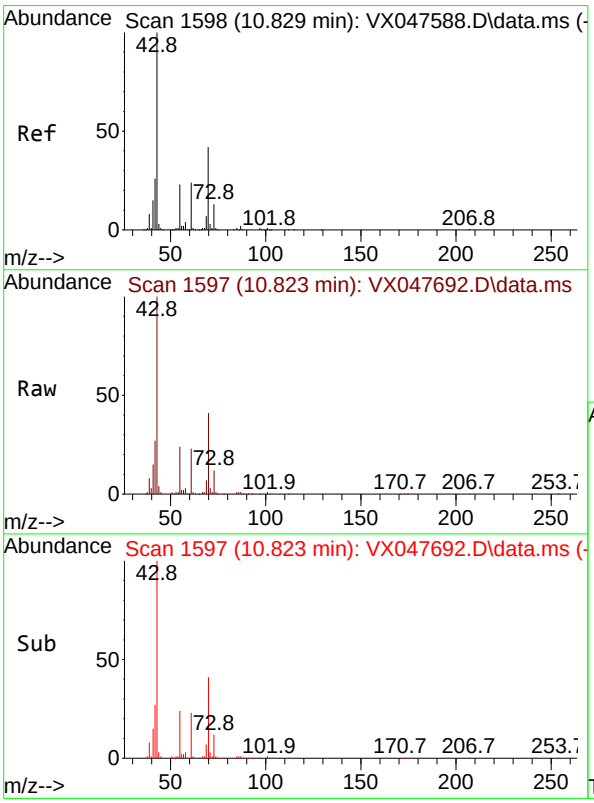
#73
Isopropylbenzene
Concen: 19.897 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:105 Resp: 214088

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.4

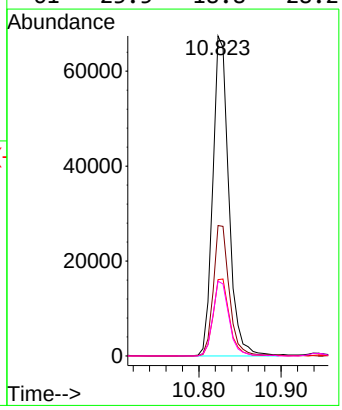


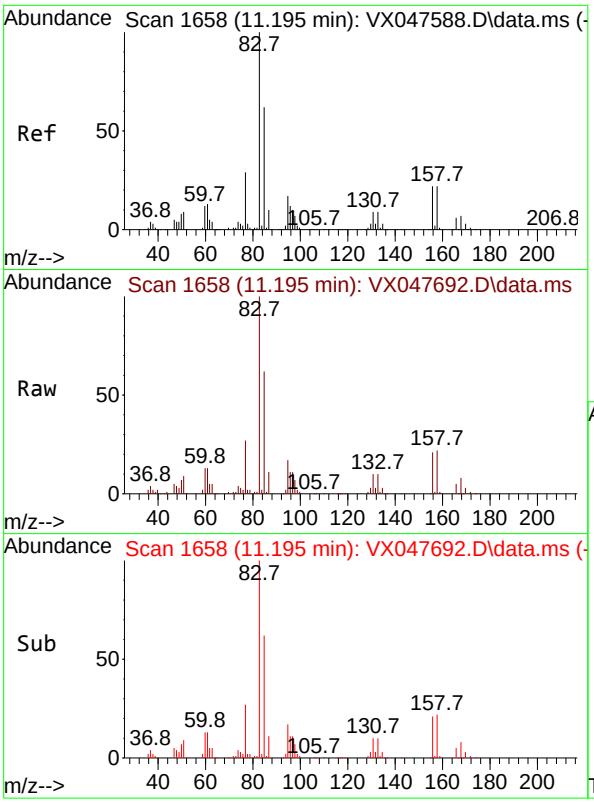


#74
N-amyl acetate
Concen: 18.607 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 43 Resp: 91296

Ion	Ratio	Lower	Upper
43	100		
70	40.7	32.0	48.0
55	24.5	18.9	28.3
61	23.5	18.8	28.2



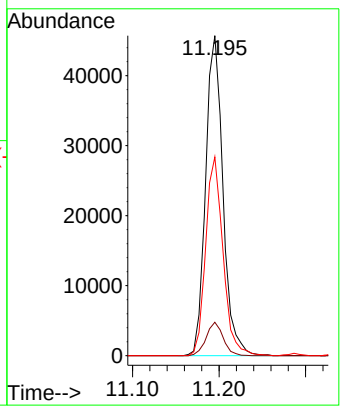


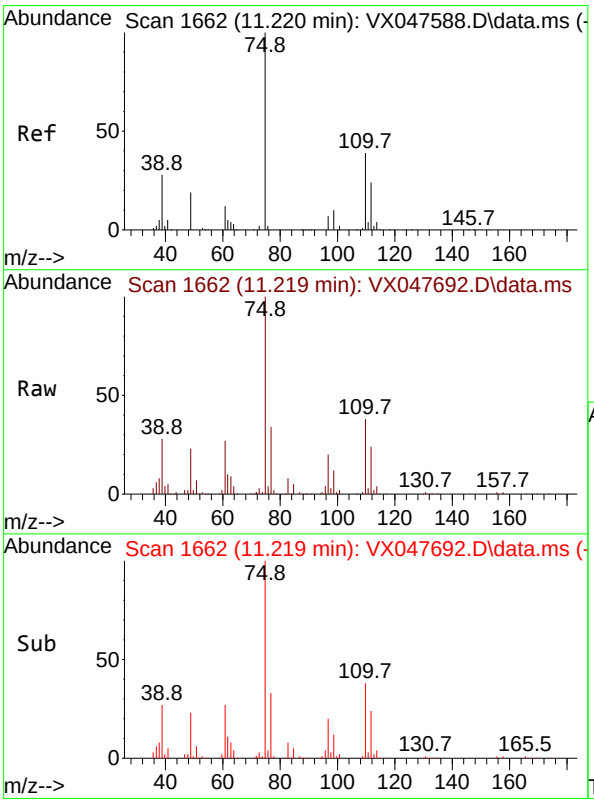
#75
1,1,2,2-Tetrachloroethane
Concen: 19.519 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 83 Resp: 63541

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	62.3	31.6	95.0

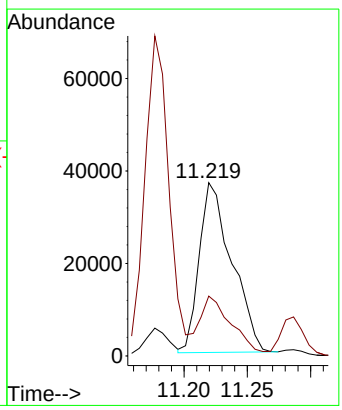


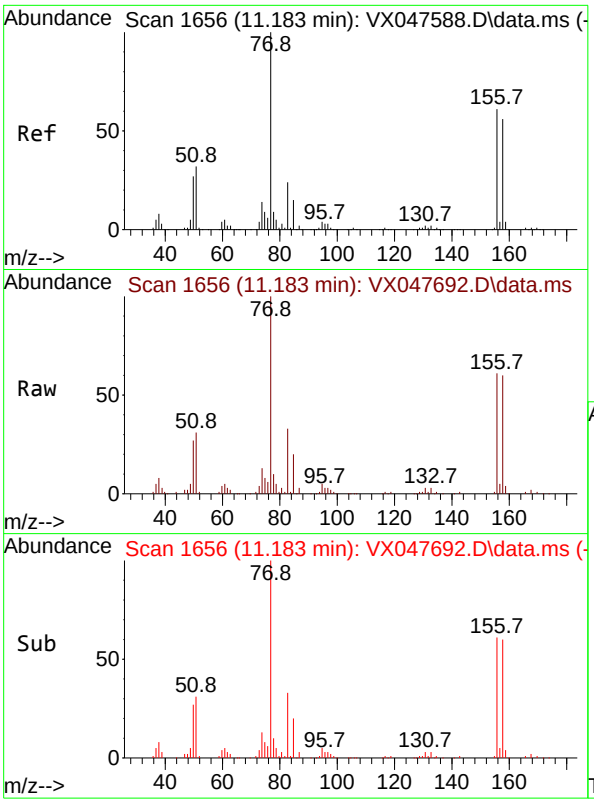


#76
1,2,3-Trichloropropane
Concen: 22.990 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 65877

Ion	Ratio	Lower	Upper
75	100		
77	32.6	18.8	56.4



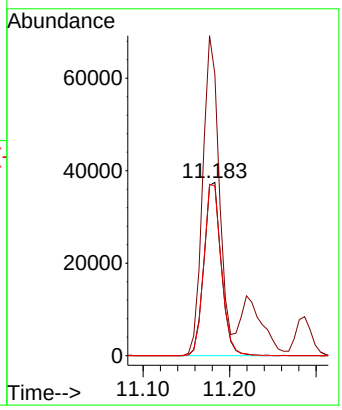


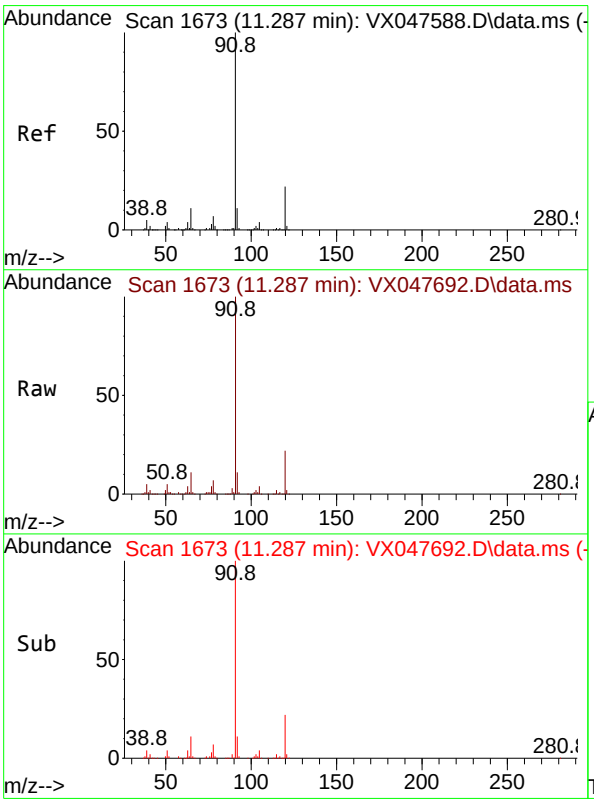
#77
Bromobenzene
Concen: 19.591 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:156 Resp: 51918

Ion	Ratio	Lower	Upper
156	100		
77	176.0	89.7	269.1
158	100.3	47.9	143.6

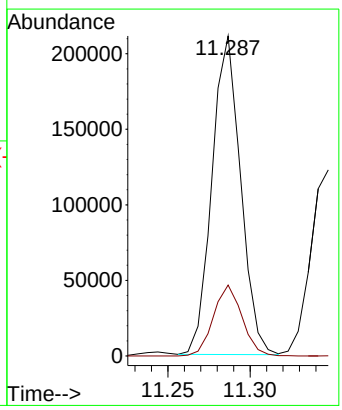


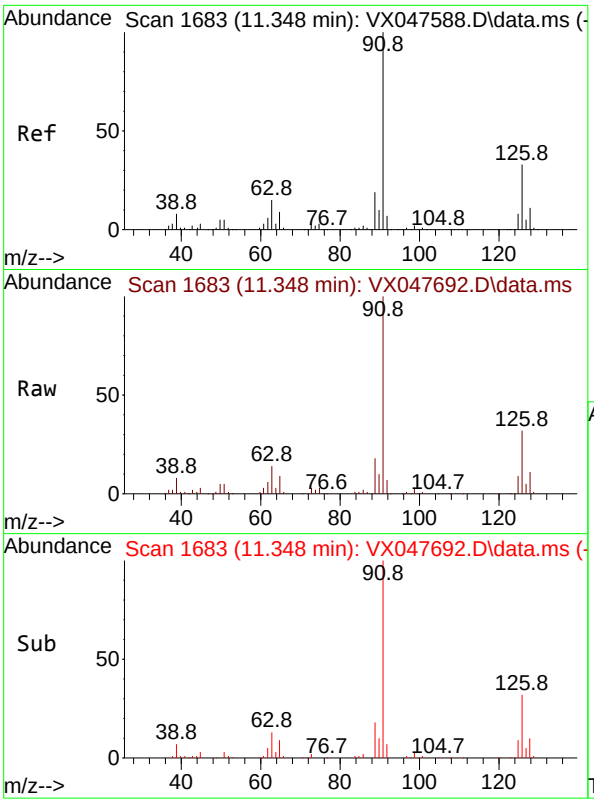


#78
n-propylbenzene
Concen: 20.102 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 91 Resp: 255688

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.1



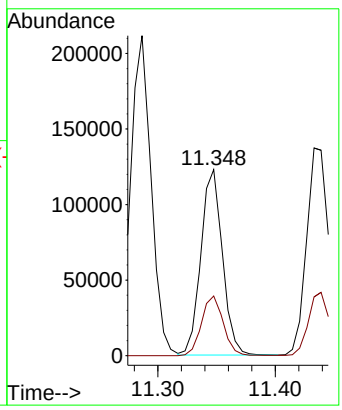


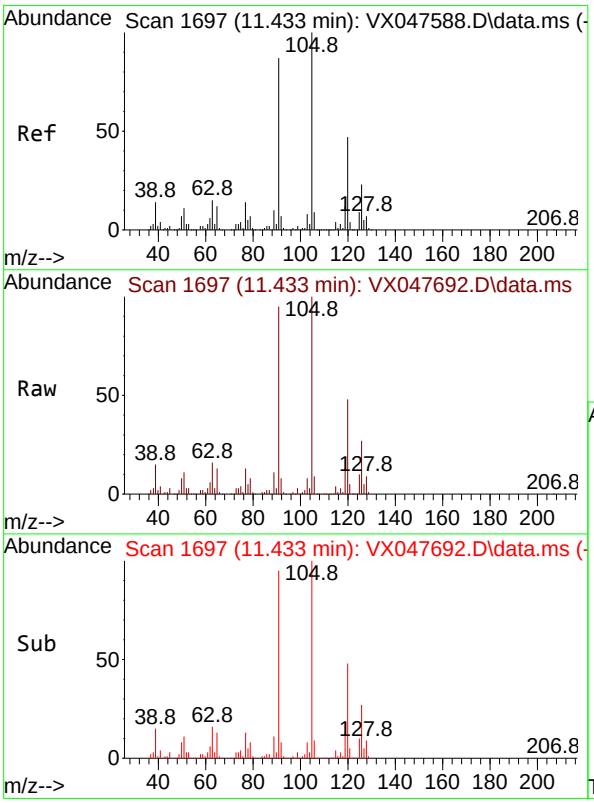
#79
2-Chlorotoluene
Concen: 20.034 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 91 Resp: 156071

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

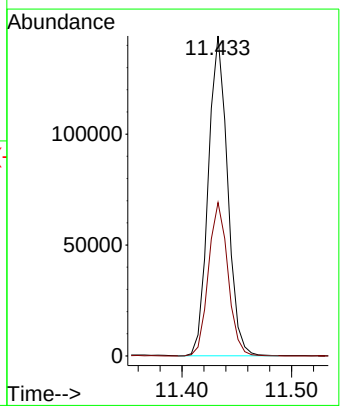


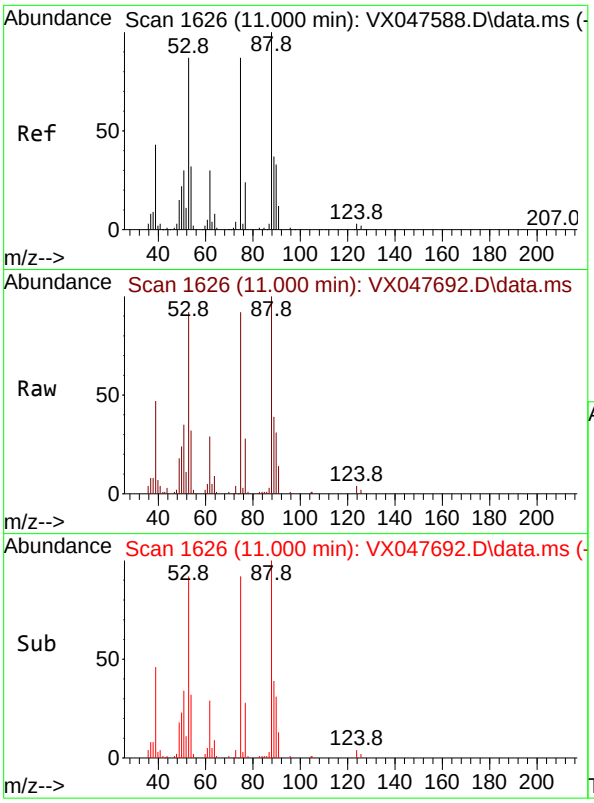


#80
1,3,5-Trimethylbenzene
Concen: 19.903 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:105 Resp: 175941

Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.6	70.8



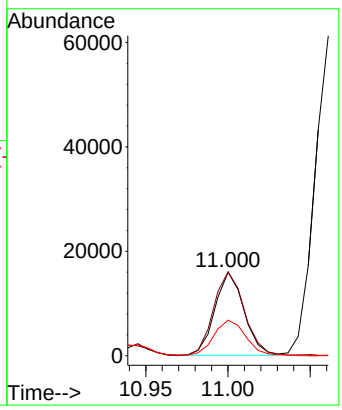


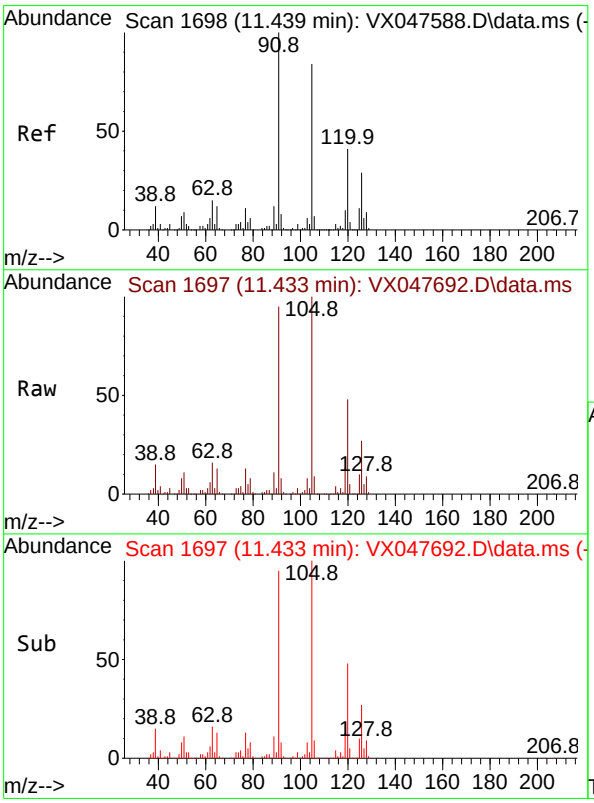
#81
trans-1,4-Dichloro-2-butene
Concen: 17.386 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 75 Resp: 19536

Ion	Ratio	Lower	Upper
75	100		
53	108.2	83.4	125.2
89	47.2	36.3	54.5

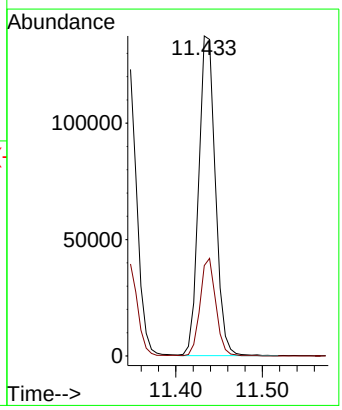


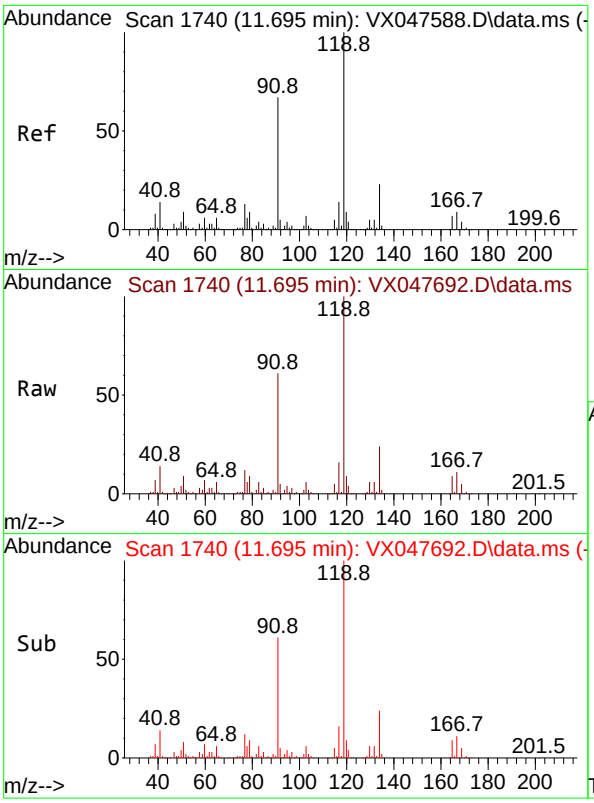


#82
4-Chlorotoluene
Concen: 19.956 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 91 Resp: 183613

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.2	42.6



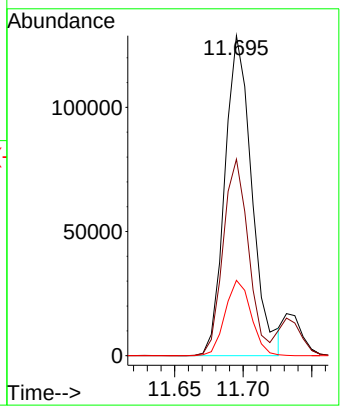


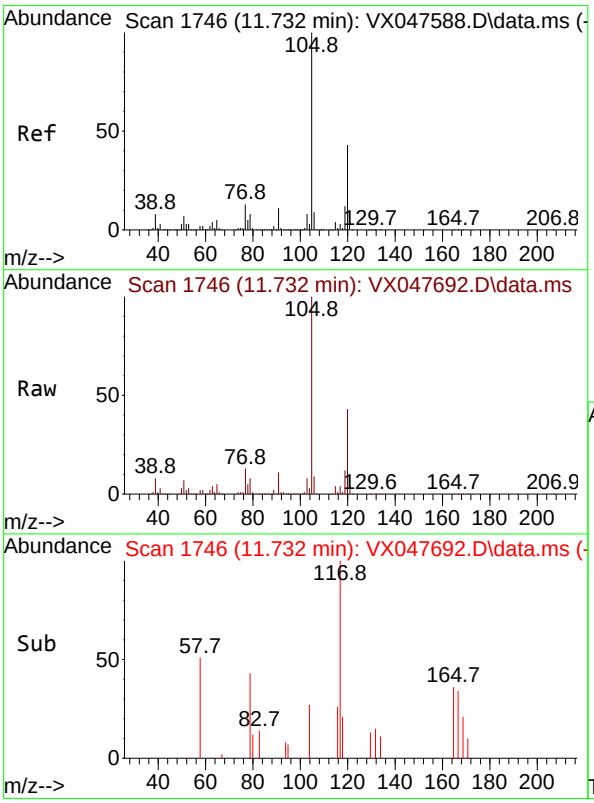
#83
tert-Butylbenzene
Concen: 19.580 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:119 Resp: 177186

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.6	88.8
134	22.6	11.0	33.0

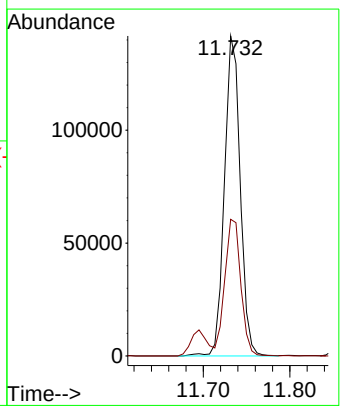


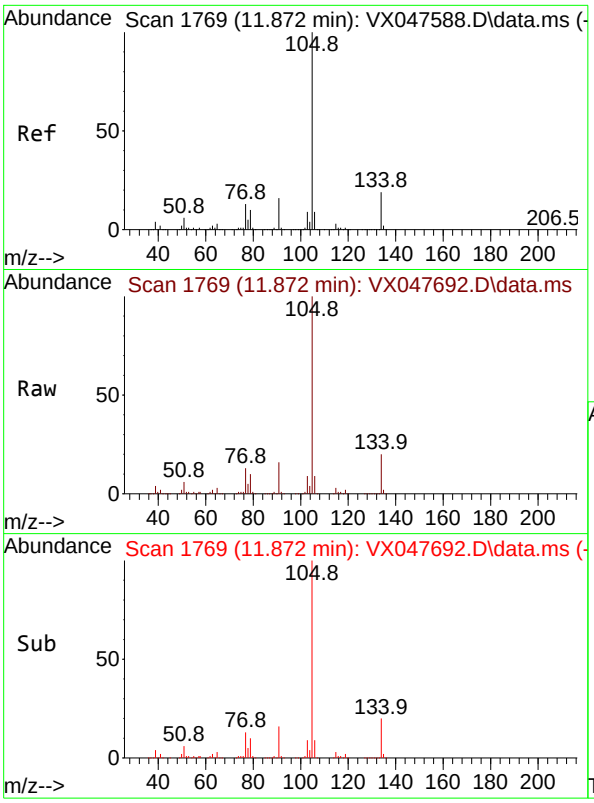


#84
1,2,4-Trimethylbenzene
Concen: 19.993 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:105 Resp: 179182

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1



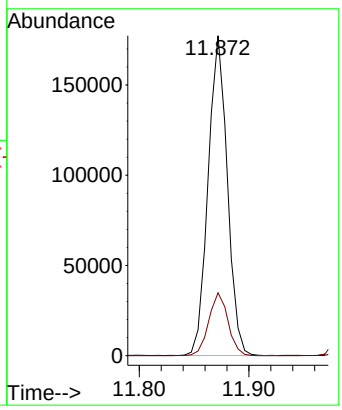


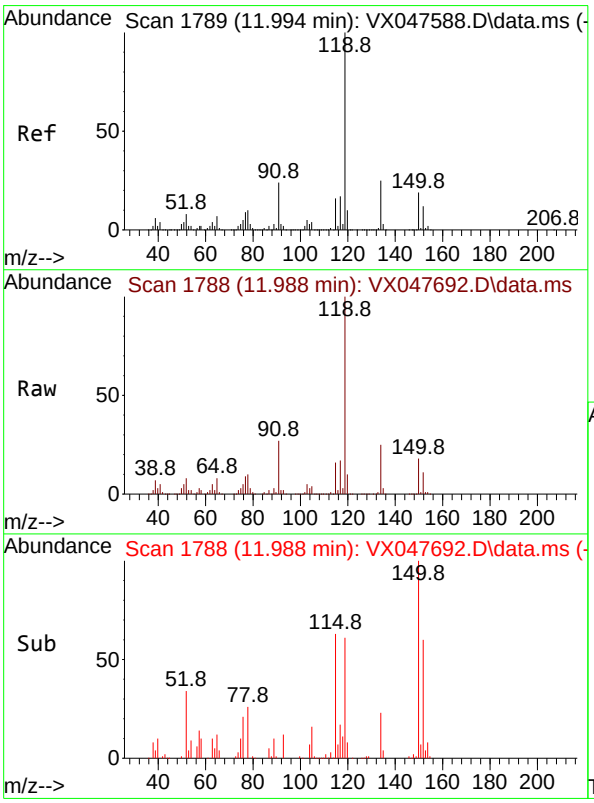
#85
sec-Butylbenzene
Concen: 20.050 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:105 Resp: 215512

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

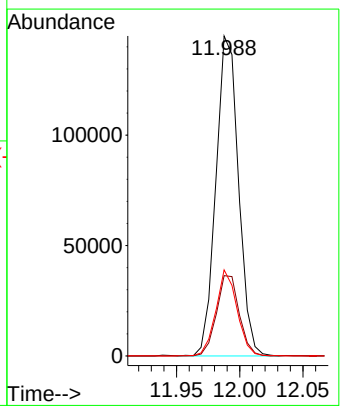


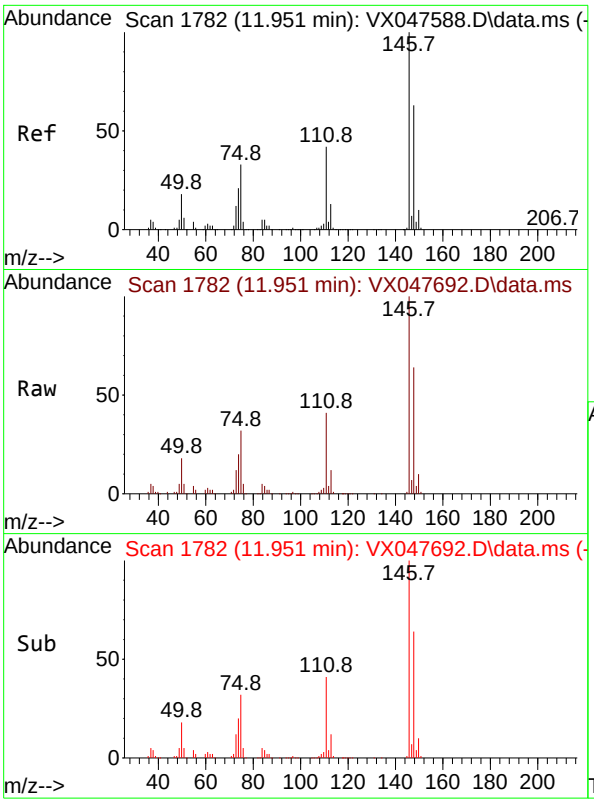


#86
p-Isopropyltoluene
Concen: 19.733 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:119 Resp: 179574

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.8
91	25.3	12.6	37.6



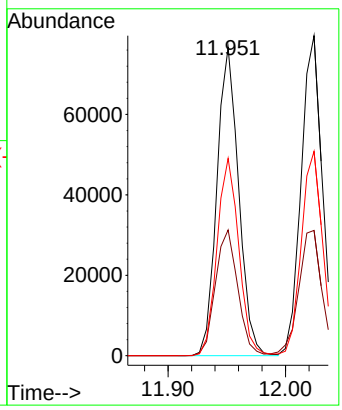


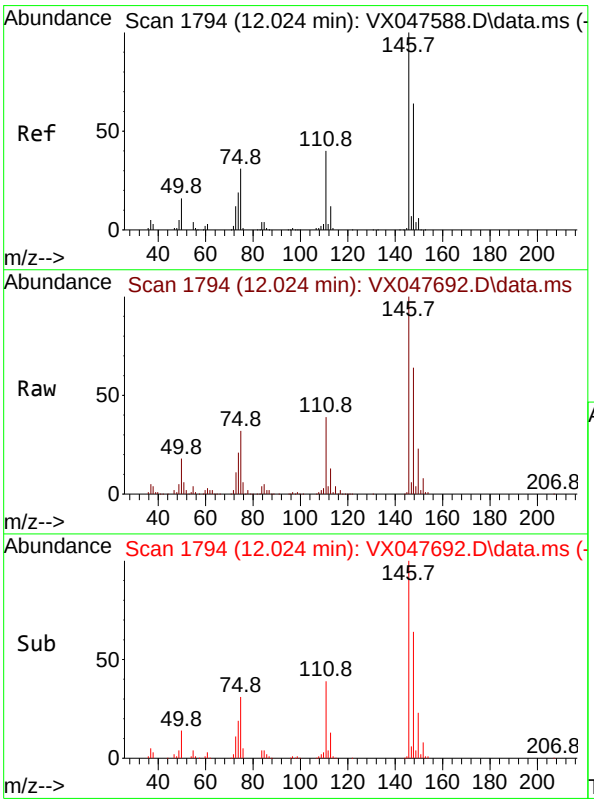
#87
1,3-Dichlorobenzene
Concen: 20.059 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:146 Resp: 98737

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	64.0	32.0	96.0

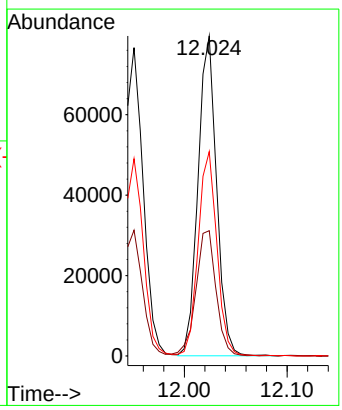


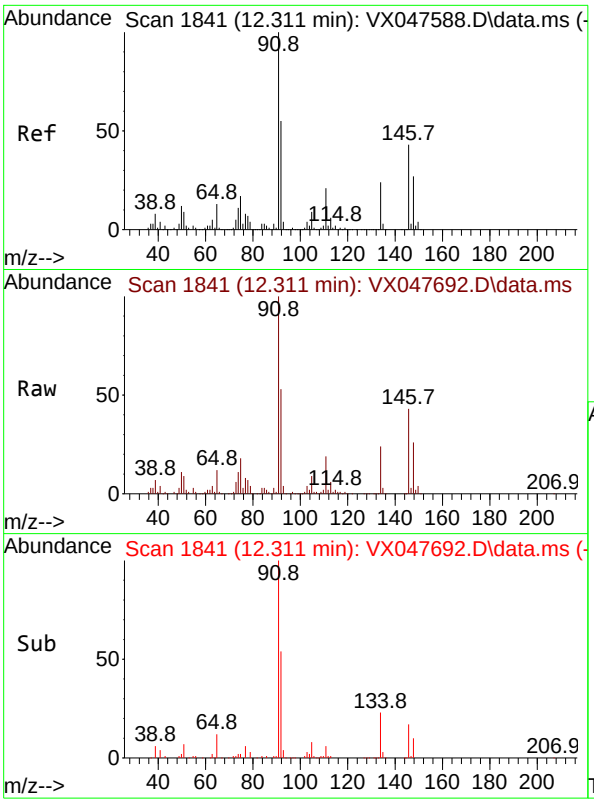


#88
1,4-Dichlorobenzene
Concen: 19.835 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:146 Resp: 100204

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.8	62.4
148	64.3	31.7	95.1



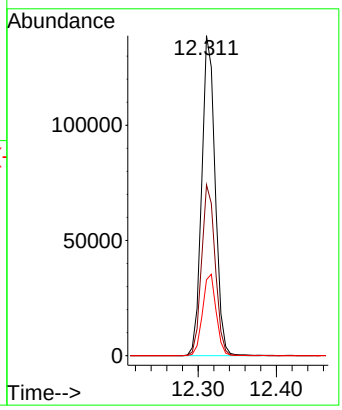


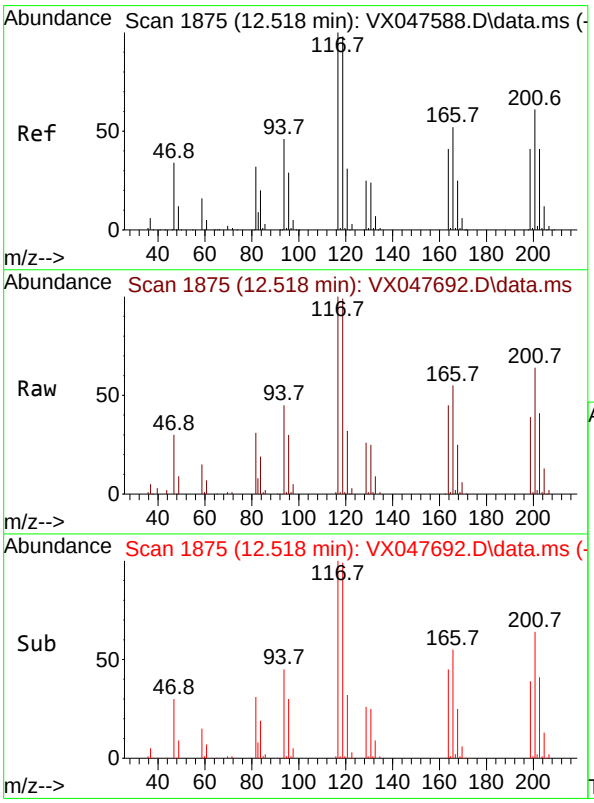
#89
n-Butylbenzene
Concen: 19.598 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion: 91 Resp: 165021

Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.6	82.7
134	25.9	12.6	37.8

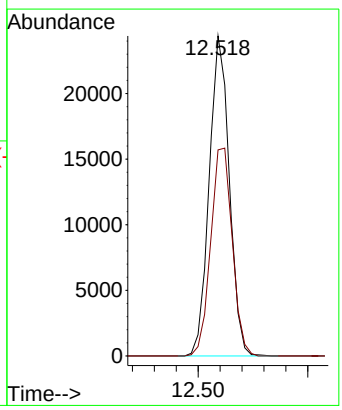


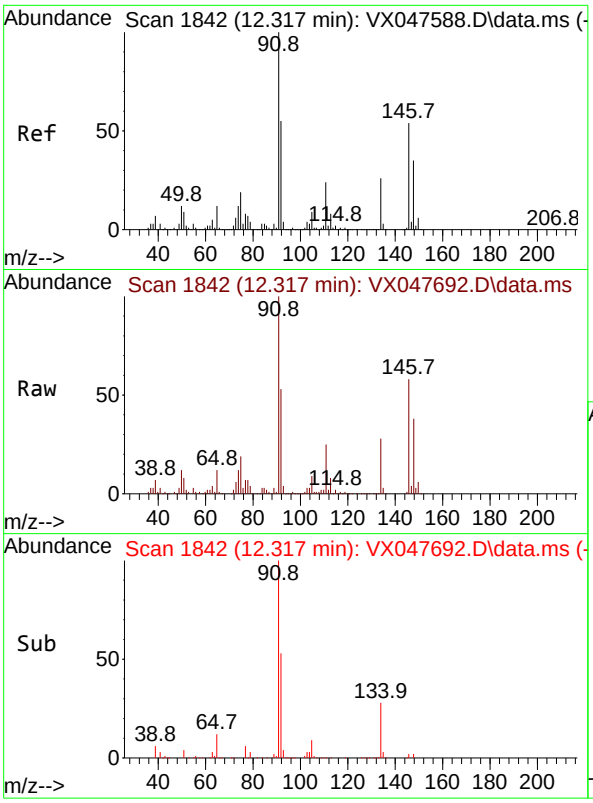


#90
Hexachloroethane
Concen: 19.426 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:117 Resp: 31037

Ion	Ratio	Lower	Upper
117	100		
201	69.8	34.2	102.5



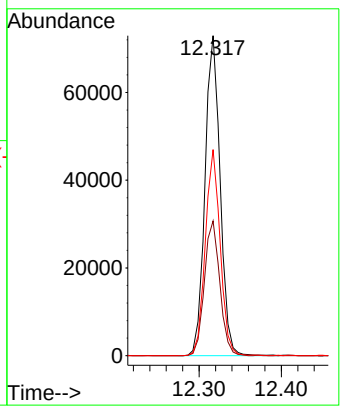


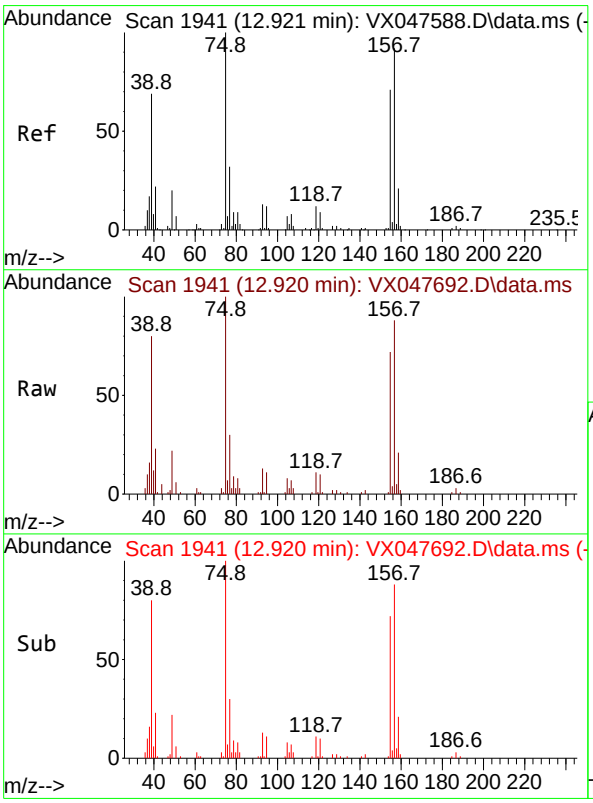
#91
1,2-Dichlorobenzene
Concen: 19.912 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:146 Resp: 93377

Ion	Ratio	Lower	Upper
146	100		
111	42.9	22.2	66.6
148	63.2	31.8	95.4

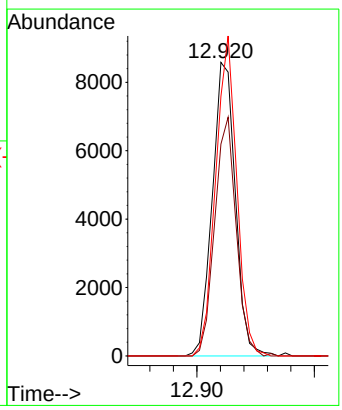


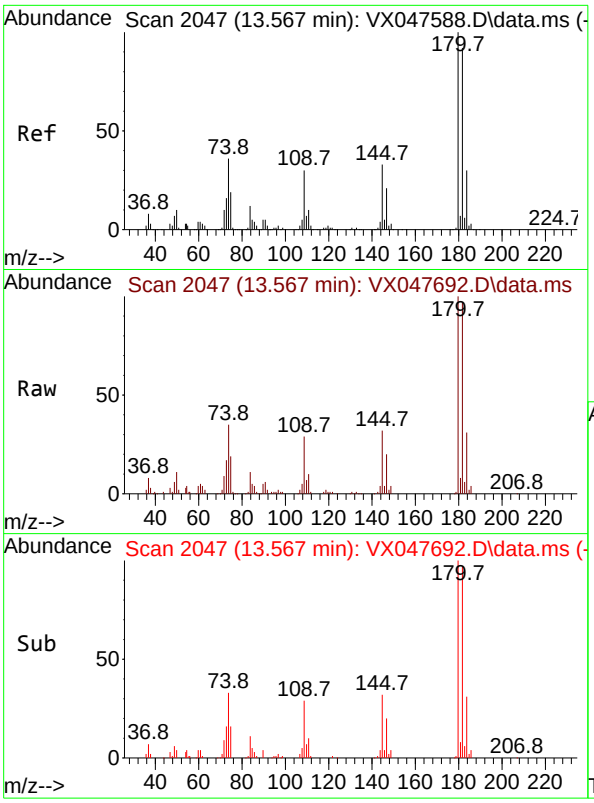


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.764 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion: 75 Resp: 11708

Ion	Ratio	Lower	Upper
75	100		
155	75.8	37.7	113.1
157	99.9	49.8	149.4



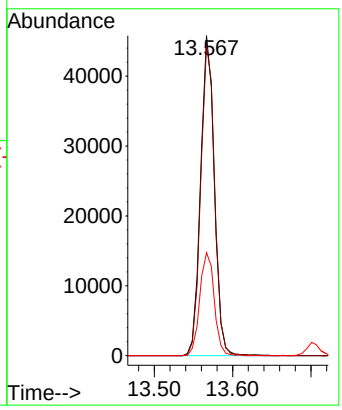


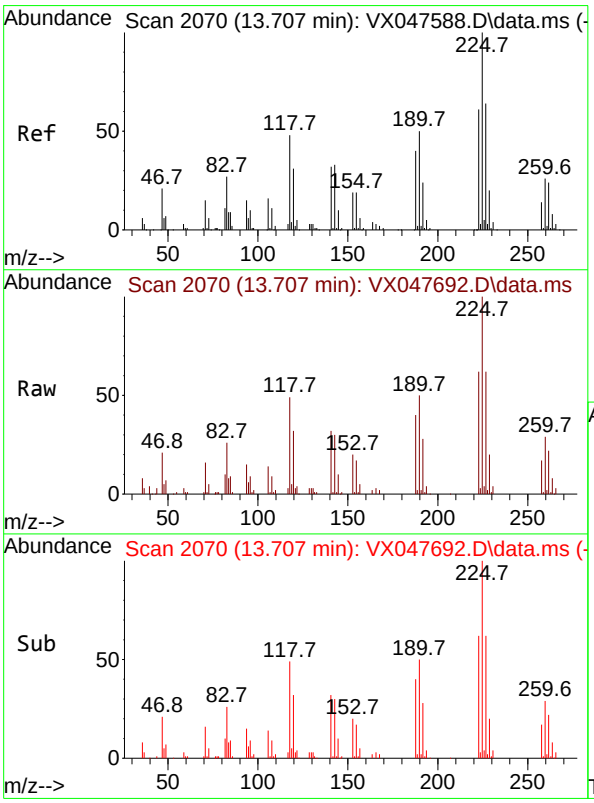
#93
1,2,4-Trichlorobenzene
Concen: 18.272 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:180 Resp: 55687

Ion	Ratio	Lower	Upper
180	100		
182	98.3	46.6	139.8
145	33.9	16.4	49.1

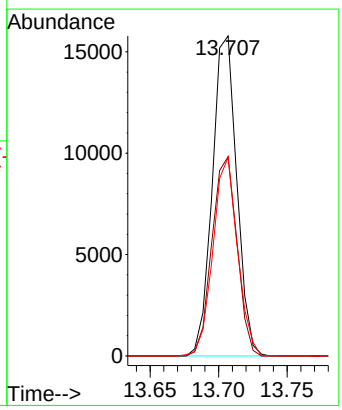


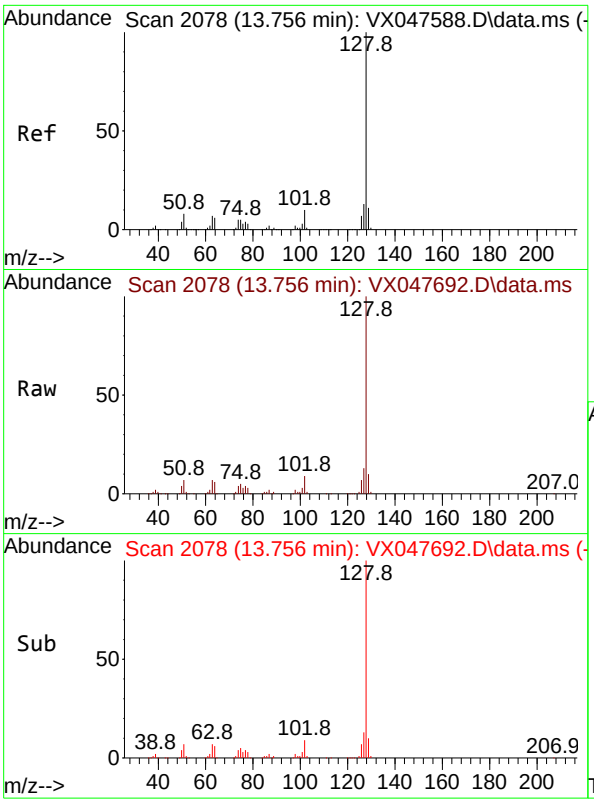


#94
Hexachlorobutadiene
Concen: 18.925 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:225 Resp: 19591

Ion	Ratio	Lower	Upper
225	100		
223	63.6	31.7	95.1
227	62.0	32.0	96.0



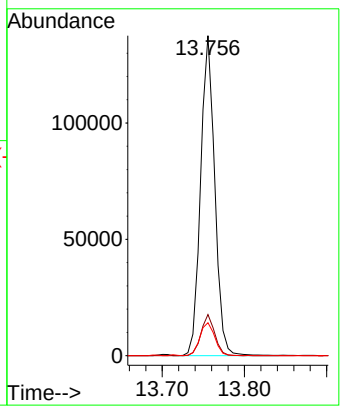


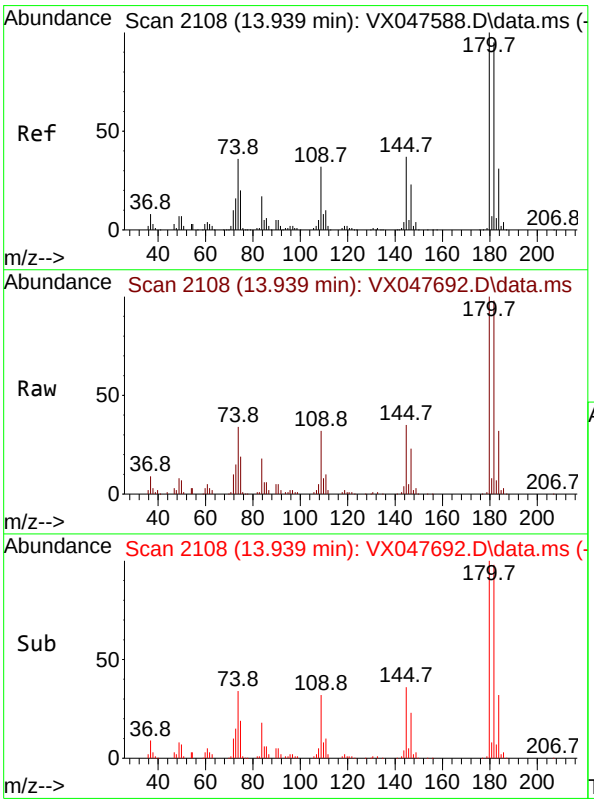
#95
Naphthalene
Concen: 17.732 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :
VX0922WBS01

Tgt Ion:128 Resp: 164565

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.2	15.2
129	10.9	8.8	13.2

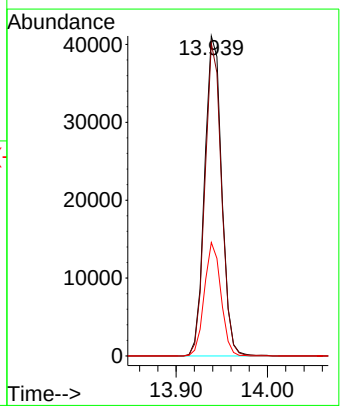




#96
1,2,3-Trichlorobenzene
Concen: 18.711 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047692.D
Acq: 22 Sep 2025 10:54

Tgt Ion:180 Resp: 53045

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.6	142.8
145	34.4	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047715.D
Acq On : 22 Sep 2025 18:58
Operator : JC/MD
Sample : Q3097-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Quant Time: Sep 23 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	149702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	270395	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241438	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	116537	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	136329	57.212	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117			Recovery = 114.420%		
35) Dibromofluoromethane	5.379	113	104622	57.693	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124			Recovery = 115.380%		
50) Toluene-d8	8.635	98	355310	56.625	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112			Recovery = 113.260%#		
62) 4-Bromofluorobenzene	11.061	95	135314	56.821	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123			Recovery = 113.640%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	99437	64.145	ug/l	97
3) Chloromethane	1.301	50	121167	59.472	ug/l	98
4) Vinyl Chloride	1.380	62	119871	60.105	ug/l	99
5) Bromomethane	1.611	94	75160	59.431	ug/l	97
6) Chloroethane	1.691	64	74872	56.170	ug/l	98
7) Trichlorofluoromethane	1.892	101	165420	55.862	ug/l	100
8) Diethyl Ether	2.136	74	66928	55.251	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	103354	59.690	ug/l	98
10) Methyl Iodide	2.453	142	147783	54.725	ug/l	99
11) Tert butyl alcohol	2.947	59	74712	281.519	ug/l	99
12) 1,1-Dichloroethene	2.325	96	100429	56.465	ug/l	94
13) Acrolein	2.239	56	73140	299.067	ug/l	99
14) Allyl chloride	2.666	41	192183	52.363	ug/l	97
15) Acrylonitrile	3.056	53	296136	301.252	ug/l	99
16) Acetone	2.373	43	247040	238.436	ug/l	97
17) Carbon Disulfide	2.514	76	280776	57.664	ug/l	99
18) Methyl Acetate	2.703	43	129577	56.196	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	363711	56.018	ug/l	98
20) Methylene Chloride	2.788	84	121271	55.296	ug/l	99
21) trans-1,2-Dichloroethene	3.093	96	108564	56.694	ug/l	95
22) Diisopropyl ether	3.751	45	393686	55.347	ug/l #	84
23) Vinyl Acetate	3.715	43	1552184	272.655	ug/l	99
24) 1,1-Dichloroethane	3.611	63	210842	55.769	ug/l	99
25) 2-Butanone	4.544	43	372626	288.325	ug/l	100
26) 2,2-Dichloropropane	4.471	77	139487	44.385	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	132021	56.296	ug/l	96
28) Bromochloromethane	4.891	49	102352	62.013	ug/l	100
29) Tetrahydrofuran	4.995	42	251898	323.998	ug/l	100
30) Chloroform	5.080	83	211676	55.407	ug/l	98
31) Cyclohexane	5.464	56	166612	52.913	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	176354	54.421	ug/l	99
36) 1,1-Dichloropropene	5.684	75	138105	52.118	ug/l	98
37) Ethyl Acetate	4.696	43	147529	51.998	ug/l	99
38) Carbon Tetrachloride	5.666	117	150271	52.194	ug/l	98
39) Methylcyclohexane	7.367	83	153865	51.153	ug/l	97
40) Benzene	6.025	78	441675	54.879	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047715.D
Acq On : 22 Sep 2025 18:58
Operator : JC/MD
Sample : Q3097-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Quant Time: Sep 23 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.904	41	83638	57.102 ug/l	98
42) 1,2-Dichloroethane	6.074	62	164680	53.778 ug/l	100
43) Isopropyl Acetate	6.324	43	248562	53.417 ug/l	99
44) Trichloroethene	7.110	130	676102	347.474 ug/l	95
45) 1,2-Dichloropropane	7.415	63	111385	54.048 ug/l	99
46) Dibromomethane	7.568	93	81291	54.206 ug/l	98
47) Bromodichloromethane	7.805	83	165717	53.549 ug/l	95
48) Methyl methacrylate	7.677	41	128265	55.339 ug/l	98
49) 1,4-Dioxane	7.647	88	32109	1370.775 ug/l	98
51) 4-Methyl-2-Pentanone	8.561	43	741126	287.265 ug/l	100
52) Toluene	8.702	92	265691	53.583 ug/l	99
53) t-1,3-Dichloropropene	8.964	75	167635	53.106 ug/l	99
54) cis-1,3-Dichloropropene	8.354	75	176915	52.436 ug/l	99
55) 1,1,2-Trichloroethane	9.134	97	104411	54.609 ug/l	99
56) Ethyl methacrylate	9.104	69	170443	56.764 ug/l	97
57) 1,3-Dichloropropane	9.293	76	182893	55.685 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.159	63	411	8.180 ug/l #	47
59) 2-Hexanone	9.415	43	516181	278.577 ug/l	98
60) Dibromochloromethane	9.506	129	122647	55.672 ug/l	99
61) 1,2-Dibromoethane	9.592	107	110705	56.847 ug/l	100
64) Tetrachloroethene	9.256	164	82663	52.520 ug/l	97
65) Chlorobenzene	10.061	112	295700	53.911 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.147	131	103240	54.546 ug/l	99
67) Ethyl Benzene	10.177	91	498788	52.704 ug/l	100
68) m/p-Xylenes	10.287	106	376275	106.818 ug/l	99
69) o-Xylene	10.628	106	183279	53.793 ug/l	99
70) Styrene	10.640	104	320866	53.747 ug/l	99
71) Bromoform	10.781	173	77485	54.826 ug/l	98
73) Isopropylbenzene	10.945	105	462634	52.217 ug/l	100
74) N-amyl acetate	10.829	43	210910	52.202 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	148503	55.400 ug/l	100
76) 1,2,3-Trichloropropane	11.226	75	164411	69.680 ug/l	89
77) Bromobenzene	11.183	156	116912	53.577 ug/l	98
78) n-propylbenzene	11.287	91	542797	51.826 ug/l	99
79) 2-Chlorotoluene	11.348	91	332315	51.805 ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	377938	51.921 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	46664	50.434 ug/l	100
82) 4-Chlorotoluene	11.439	91	393591	51.951 ug/l	99
83) tert-Butylbenzene	11.695	119	383158	51.420 ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	384015	52.035 ug/l	100
85) sec-Butylbenzene	11.872	105	455269	51.437 ug/l	100
86) p-Isopropyltoluene	11.994	119	382834	51.091 ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	209966	51.804 ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	212167	51.003 ug/l	99
89) n-Butylbenzene	12.317	91	348901	50.321 ug/l	99
90) Hexachloroethane	12.518	117	67085	50.993 ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	204964	53.080 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	29122	53.660 ug/l	94
93) 1,2,4-Trichlorobenzene	13.567	180	127943	50.982 ug/l	99
94) Hexachlorobutadiene	13.707	225	38825	45.547 ug/l	98
95) Naphthalene	13.756	128	410695	53.743 ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	118190	50.629 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047715.D
Acq On : 22 Sep 2025 18:58
Operator : JC/MD
Sample : Q3097-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Quant Time: Sep 23 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

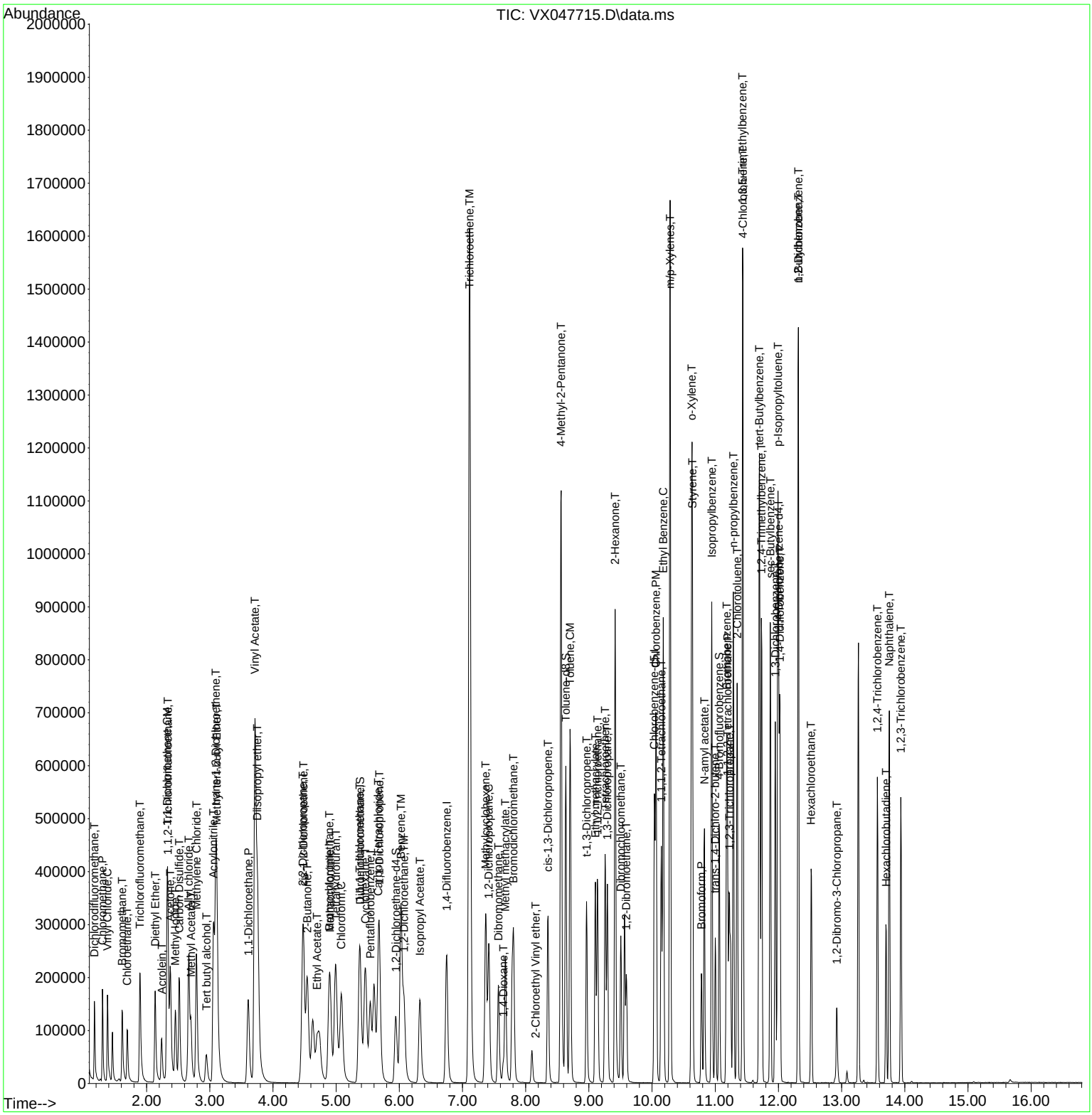
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

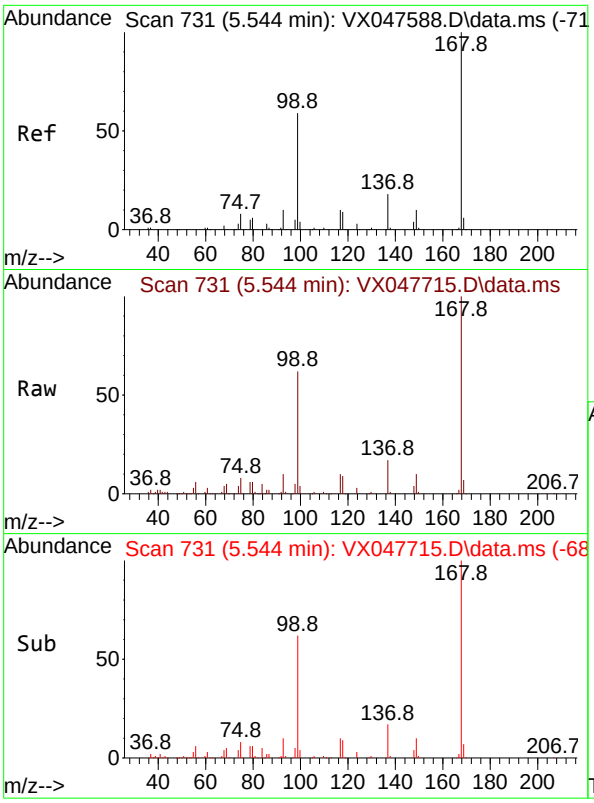
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047715.D
Acq On : 22 Sep 2025 18:58
Operator : JC/MD
Sample : Q3097-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Quant Time: Sep 23 01:41:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



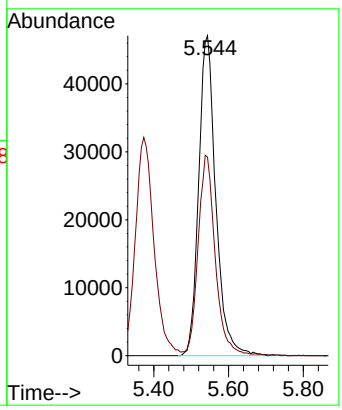


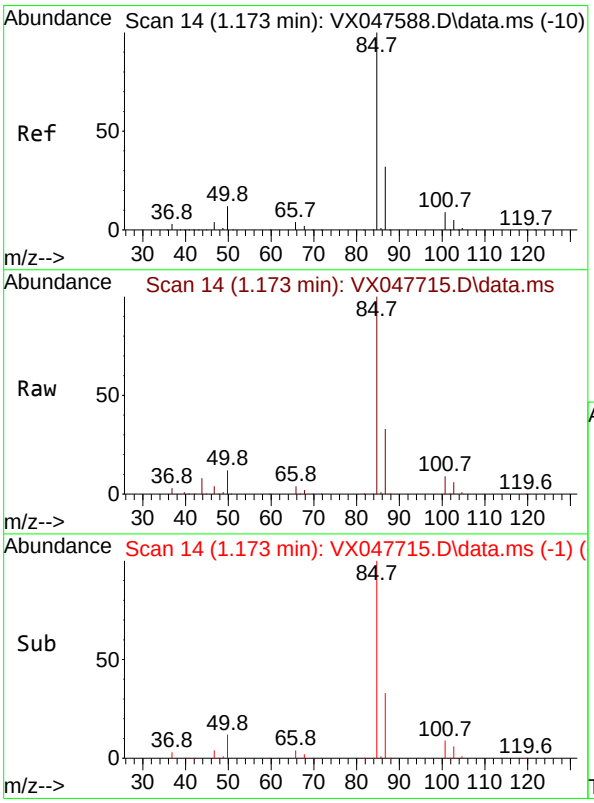
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:168 Resp: 149702

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.8	73.2

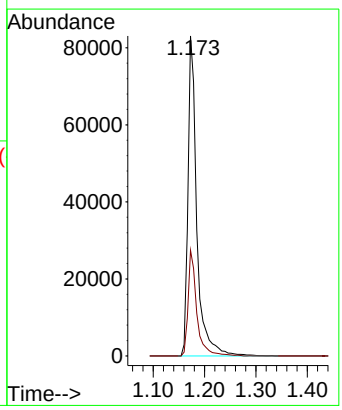


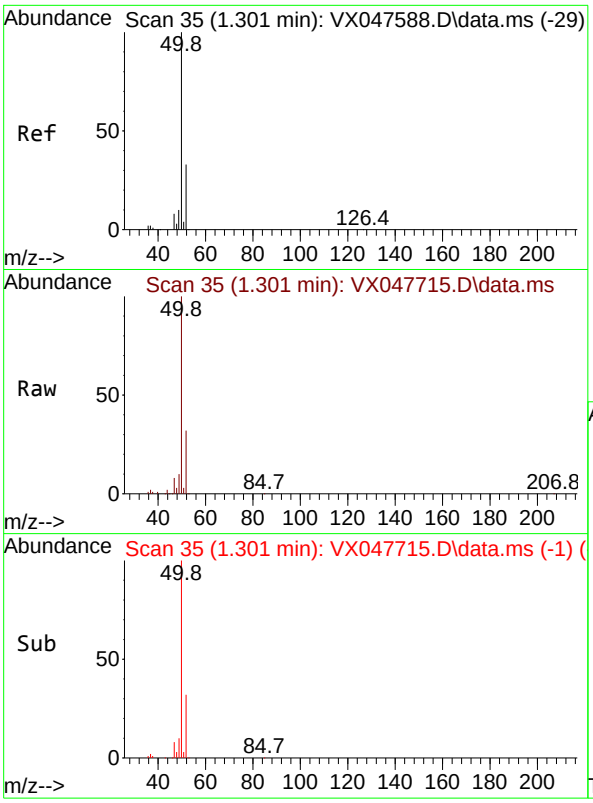


#2
Dichlorodifluoromethane
Concen: 64.145 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 85 Resp: 99437

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.8	47.3



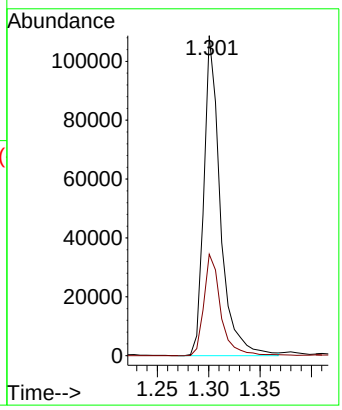


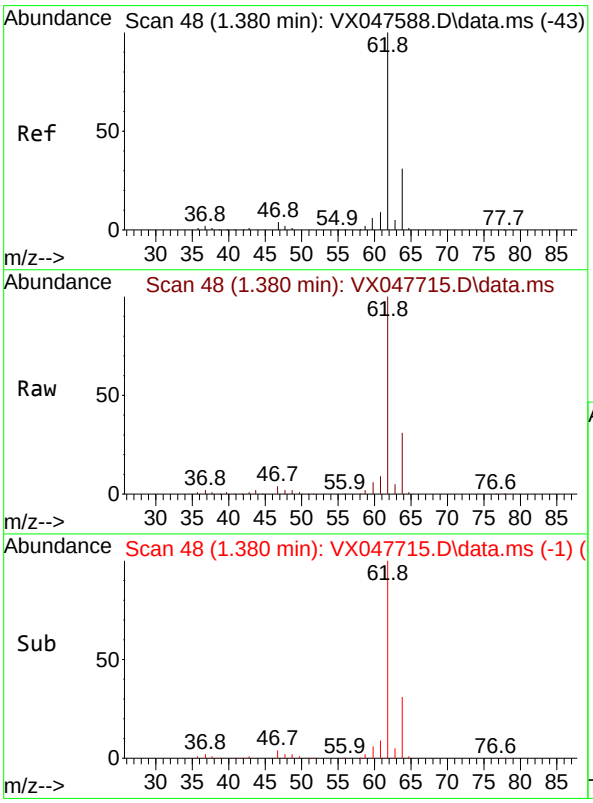
#3
Chloromethane
Concen: 59.472 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 50 Resp: 121167

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.1	39.1

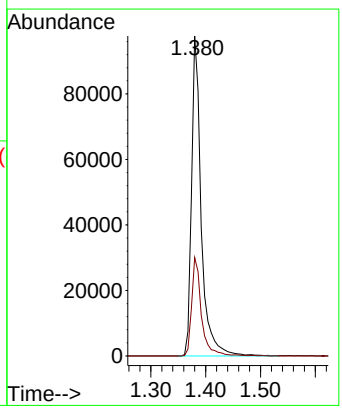


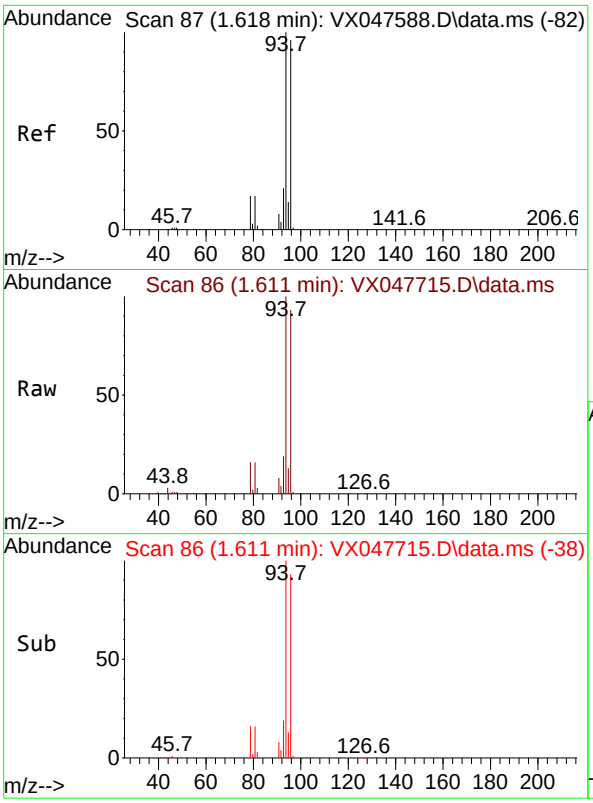


#4
Vinyl Chloride
Concen: 60.105 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 62 Resp: 119871

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.9	37.3



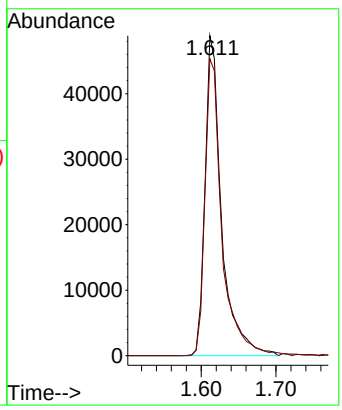


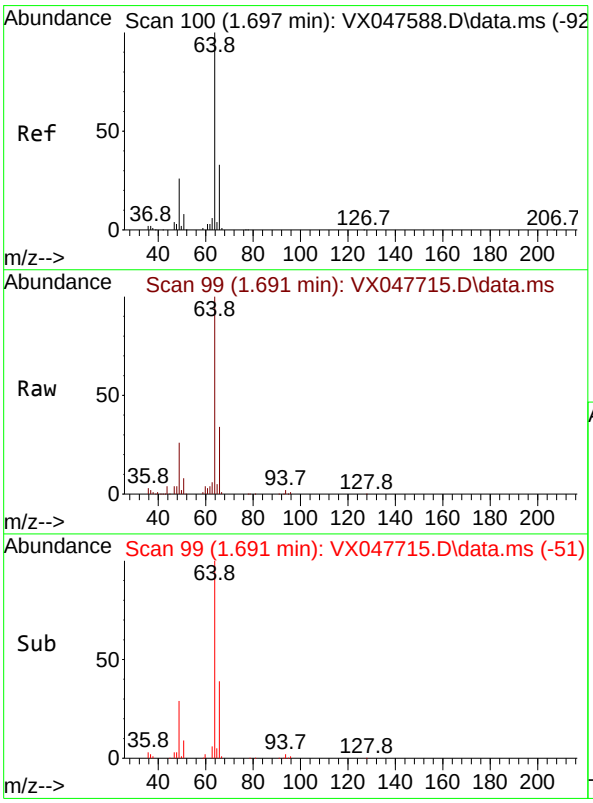
#5
Bromomethane
Concen: 59.431 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 94 Resp: 75160

Ion	Ratio	Lower	Upper
94	100		
96	92.8	76.6	115.0

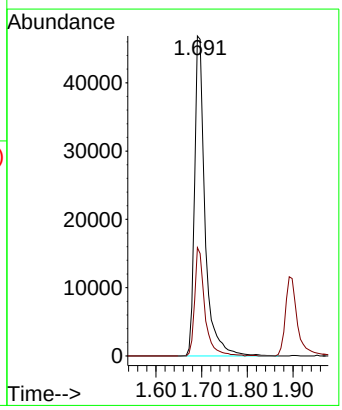


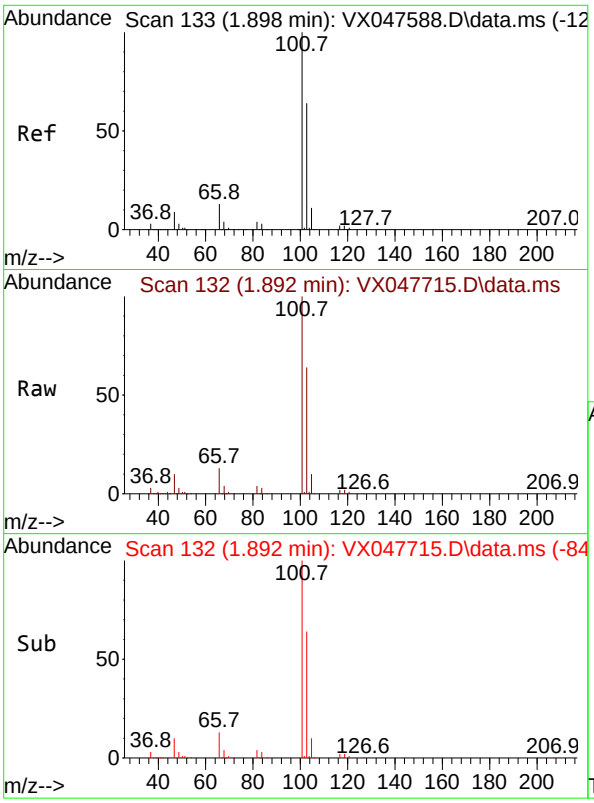


#6
Chloroethane
Concen: 56.170 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 64 Resp: 74872

Ion	Ratio	Lower	Upper
64	100		
66	33.8	26.1	39.1



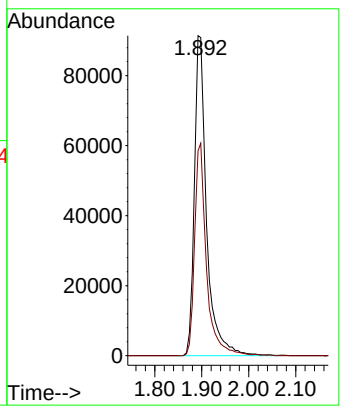


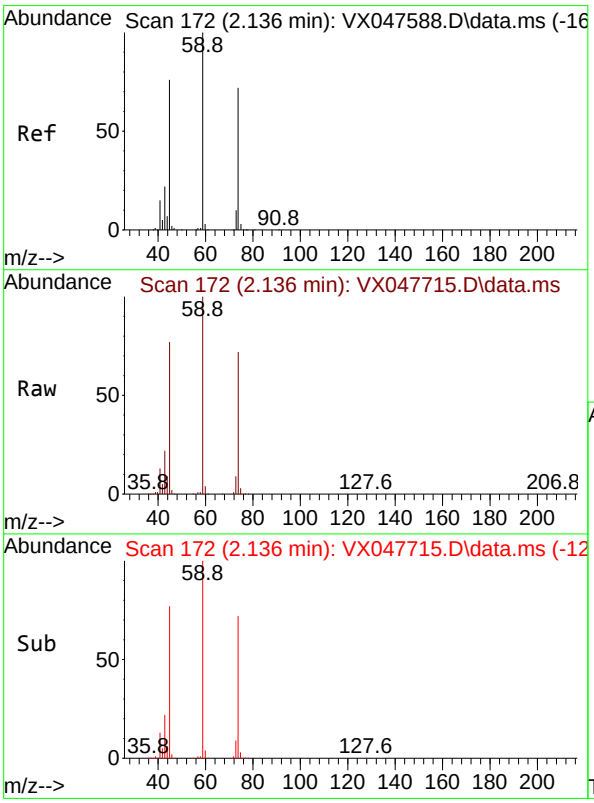
#7
Trichlorofluoromethane
Concen: 55.862 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:101 Resp: 165420

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.4	77.2

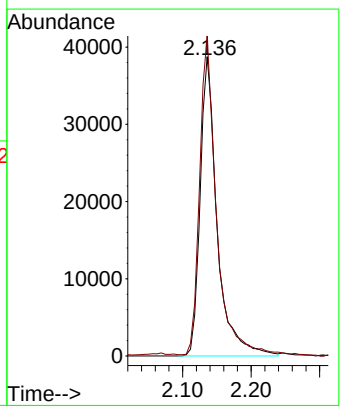


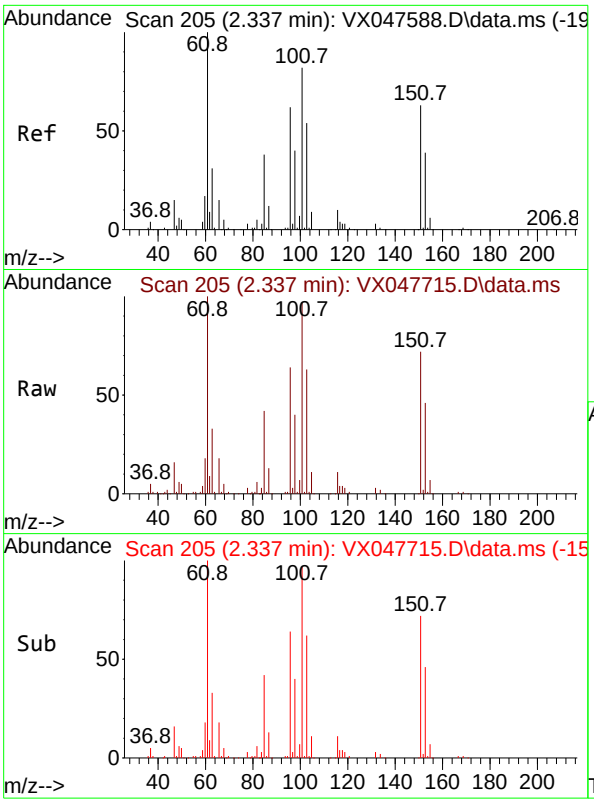


#8
Diethyl Ether
Concen: 55.251 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 74 Resp: 66928

Ion	Ratio	Lower	Upper
74	100		
45	108.0	52.3	156.8



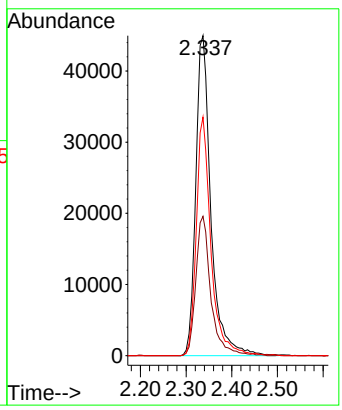


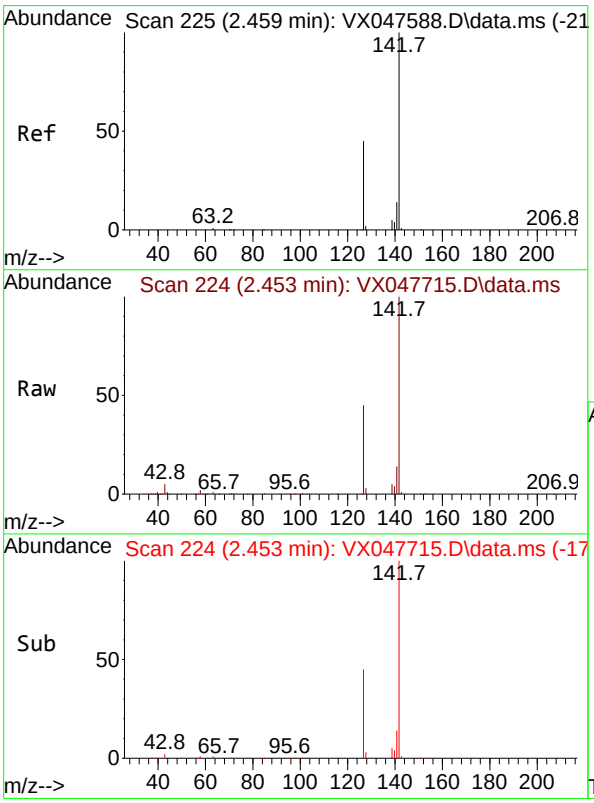
#9
1,1,2-Trichlorotrifluoroethane
Concen: 59.690 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:101 Resp: 103354

Ion	Ratio	Lower	Upper
101	100		
85	43.3	35.5	53.3
151	72.2	59.4	89.0

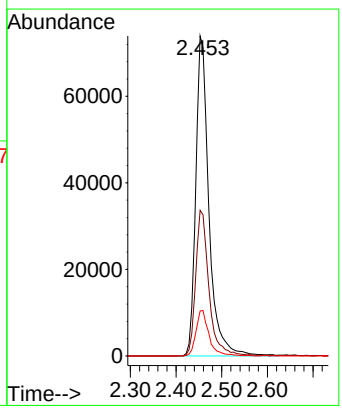


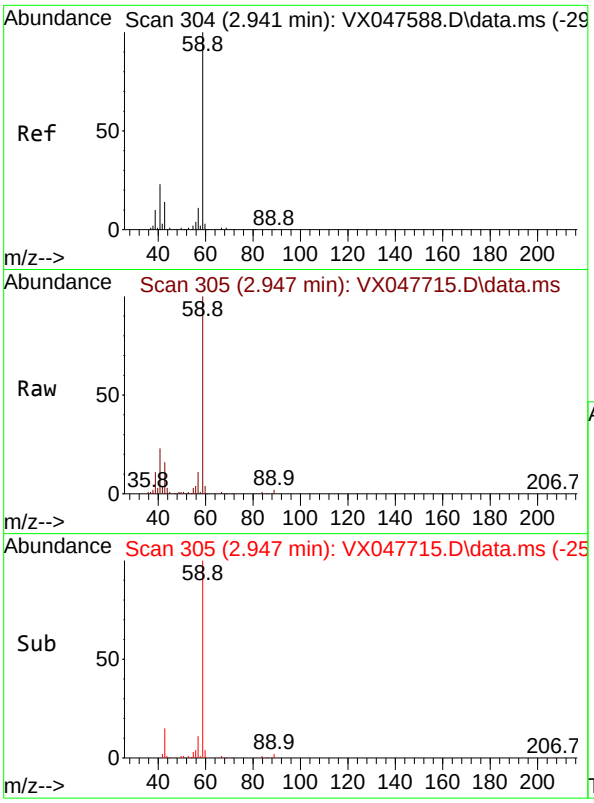


#10
Methyl Iodide
Concen: 54.725 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:142 Resp: 147783

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.2	55.8
141	14.0	11.4	17.0



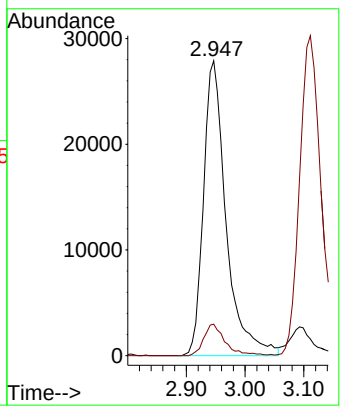


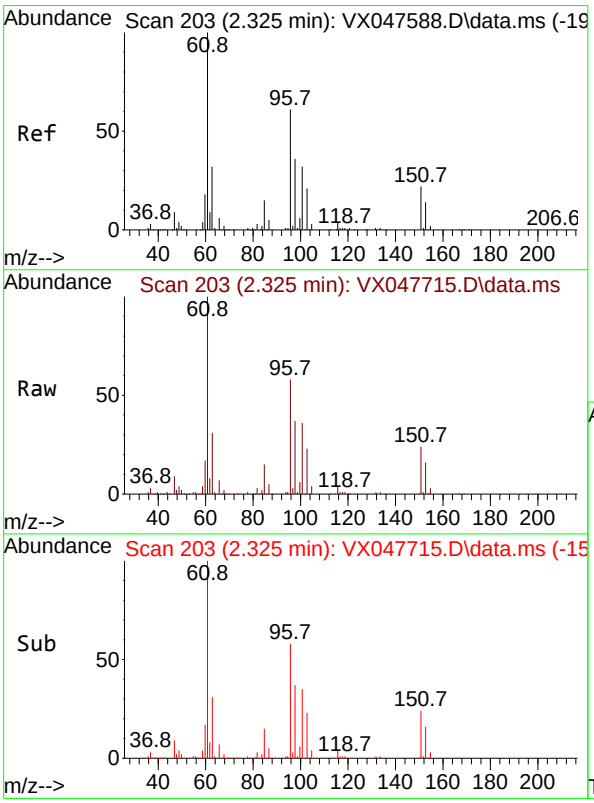
#11
Tert butyl alcohol
Concen: 281.519 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 59 Resp: 74712

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5

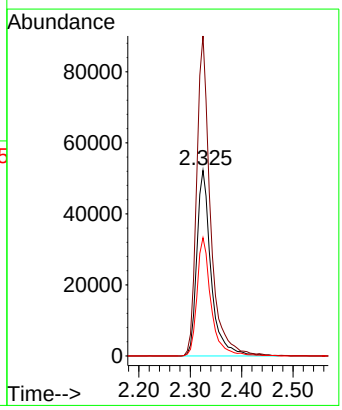


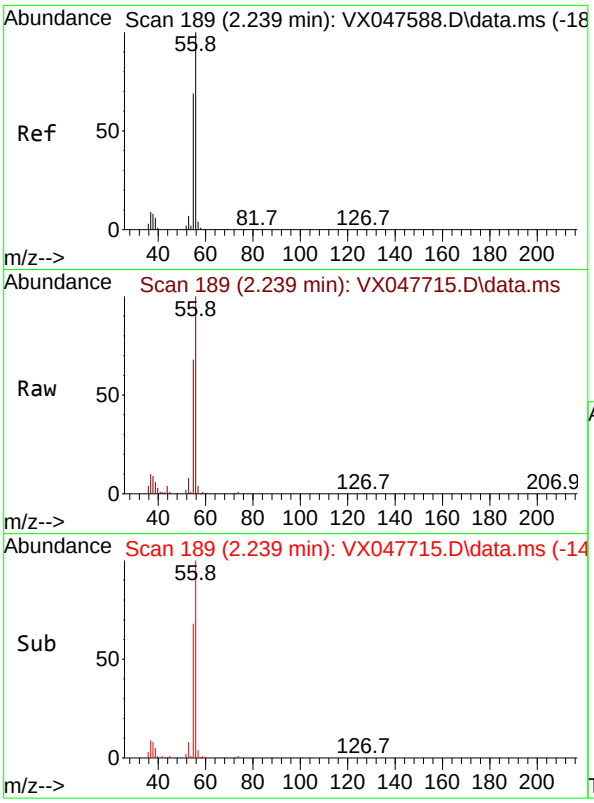


#12
1,1-Dichloroethene
Concen: 56.465 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 96 Resp: 100429

Ion	Ratio	Lower	Upper
96	100		
61	172.3	131.0	196.6
98	63.7	47.7	71.5



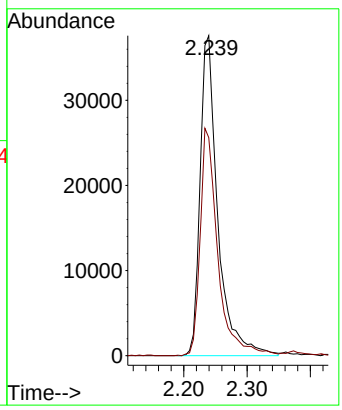


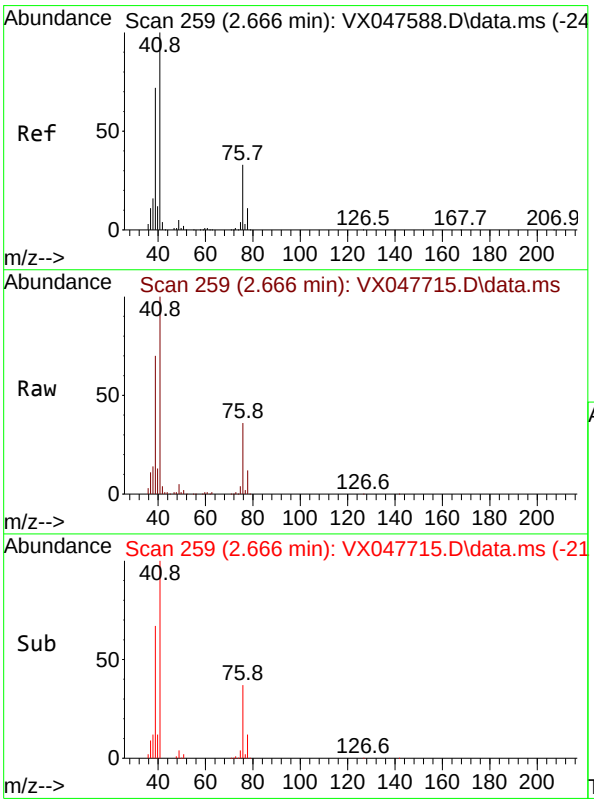
#13
Acrolein
Concen: 299.067 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 56 Resp: 73140

Ion	Ratio	Lower	Upper
56	100		
55	71.0	57.2	85.8

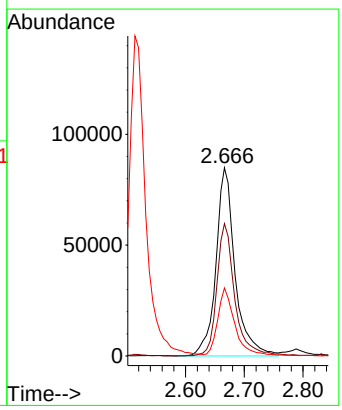


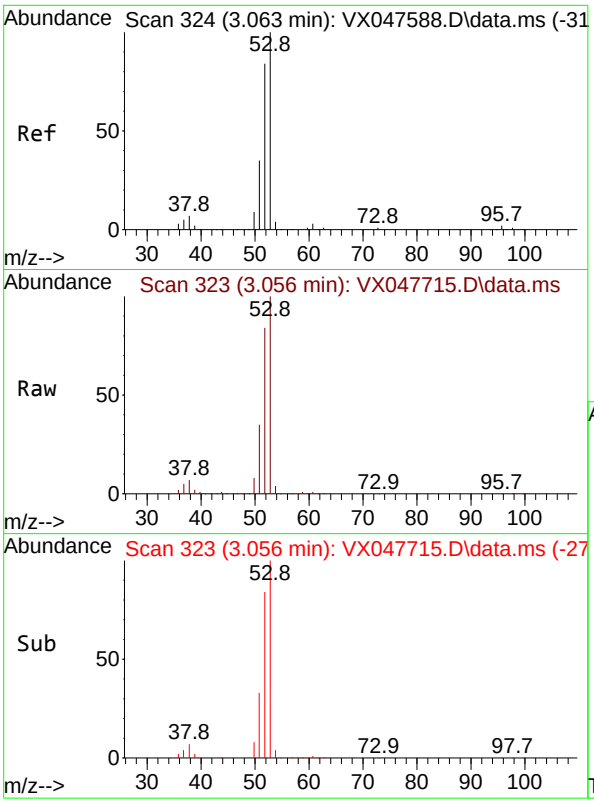


#14
Allyl chloride
Concen: 52.363 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 41 Resp: 192183

Ion	Ratio	Lower	Upper
41	100		
39	65.3	54.7	82.1
76	32.2	25.7	38.5



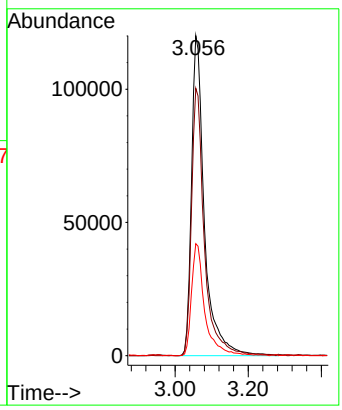


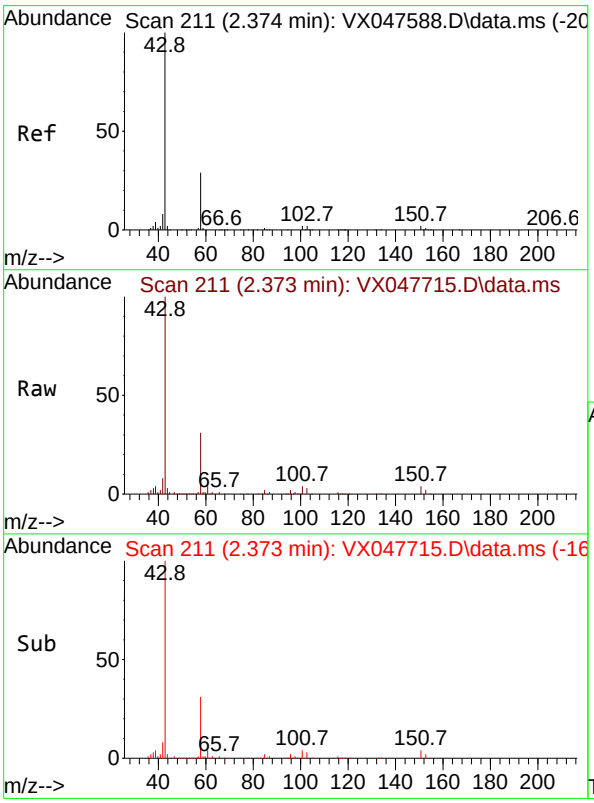
#15
Acrylonitrile
Concen: 301.252 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 53 Resp: 296136

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.4	99.6
51	35.9	29.5	44.3

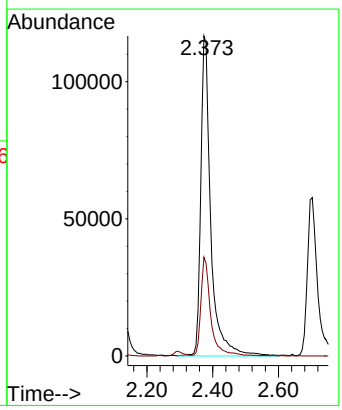


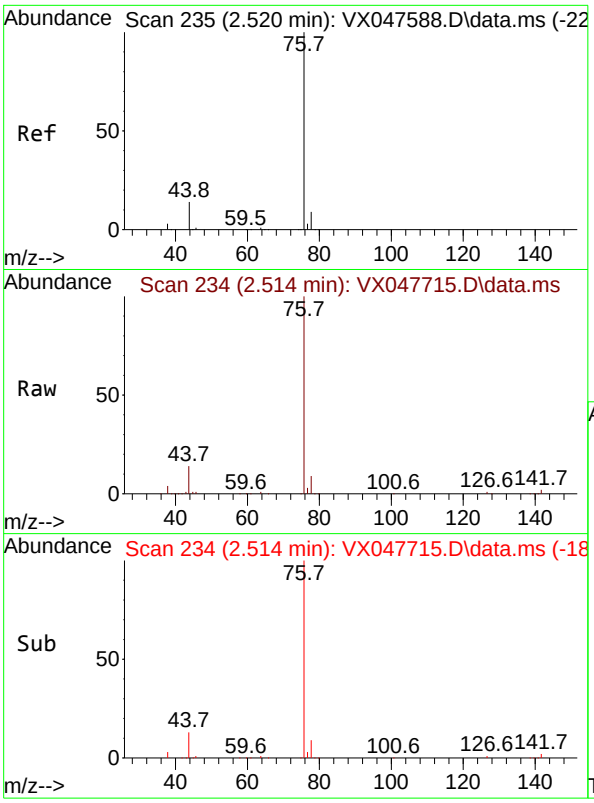


#16
Acetone
Concen: 238.436 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 247040

Ion	Ratio	Lower	Upper
43	100		
58	30.9	23.4	35.0



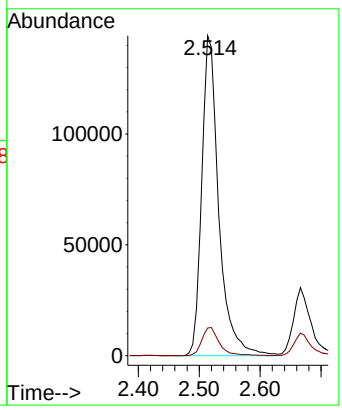


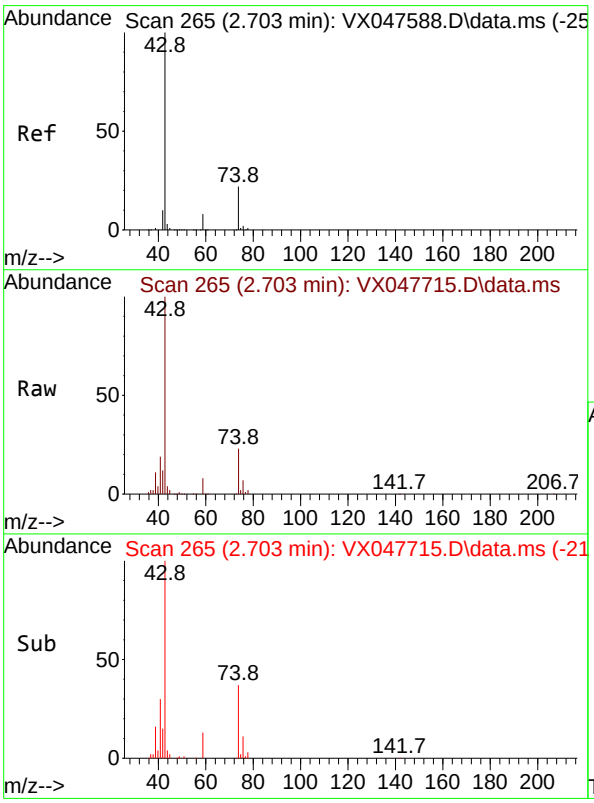
#17
Carbon Disulfide
Concen: 57.664 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 76 Resp: 280776

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.8	10.2

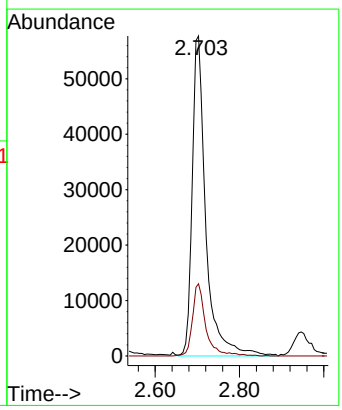


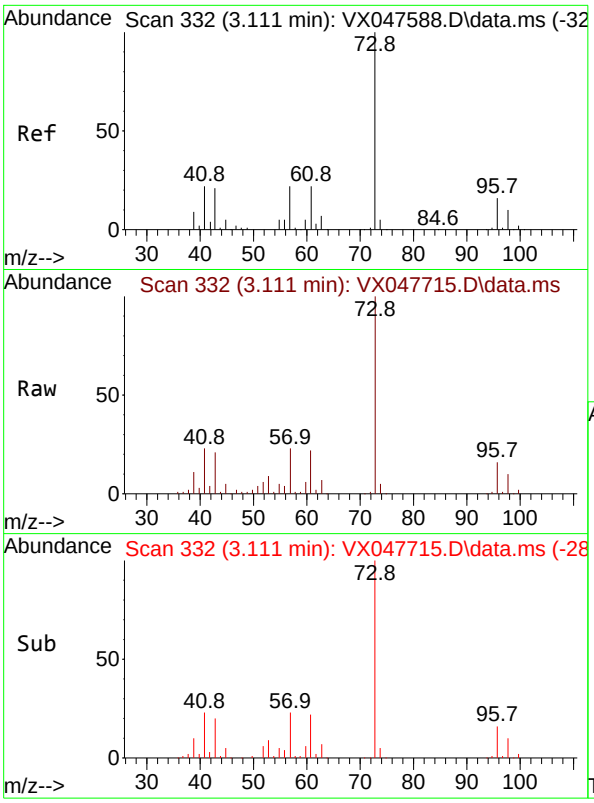


#18
Methyl Acetate
Concen: 56.196 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 129577

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2



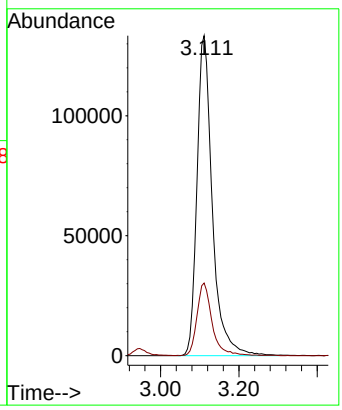


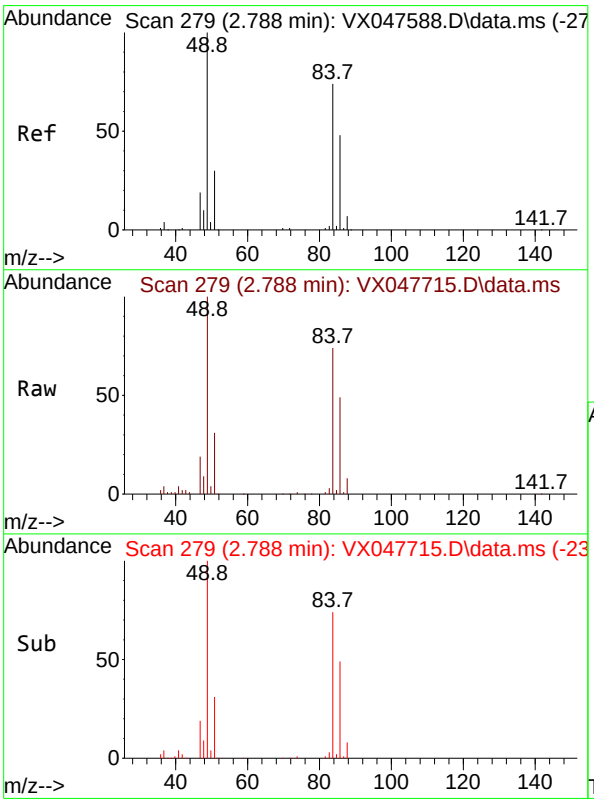
#19
Methyl tert-butyl Ether
Concen: 56.018 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 73 Resp: 363711

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.4	26.2

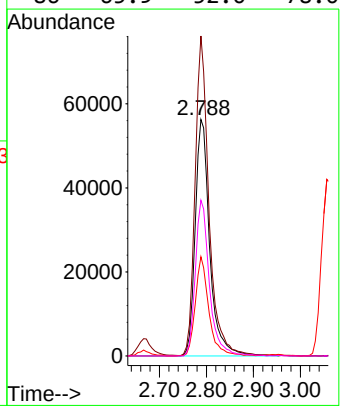


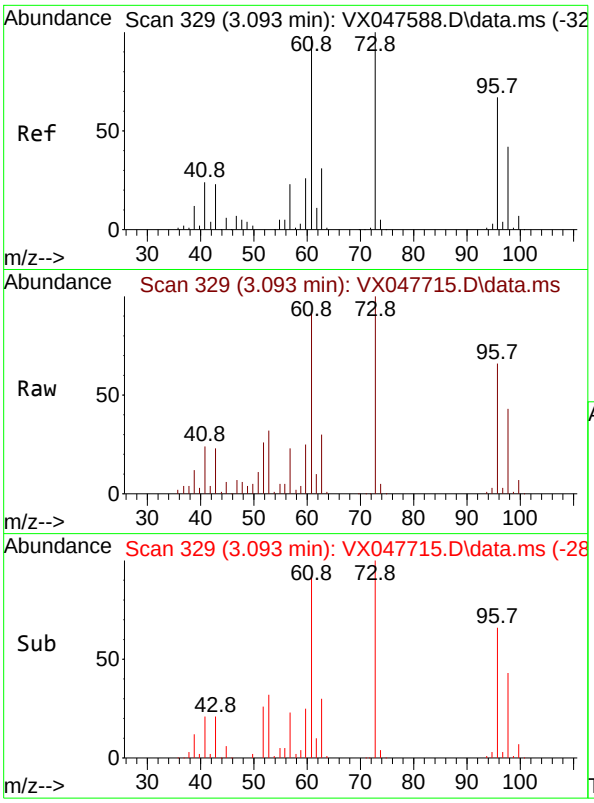


#20
Methylene Chloride
Concen: 55.296 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 84 Resp: 121271

Ion	Ratio	Lower	Upper
84	100		
49	135.1	108.6	162.8
51	41.8	32.6	48.8
86	65.9	52.0	78.0



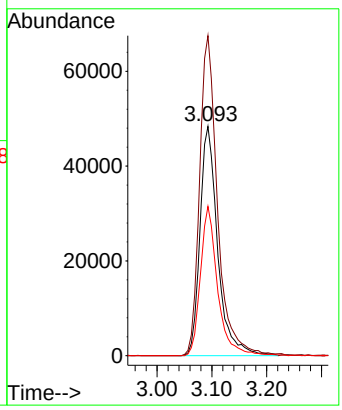


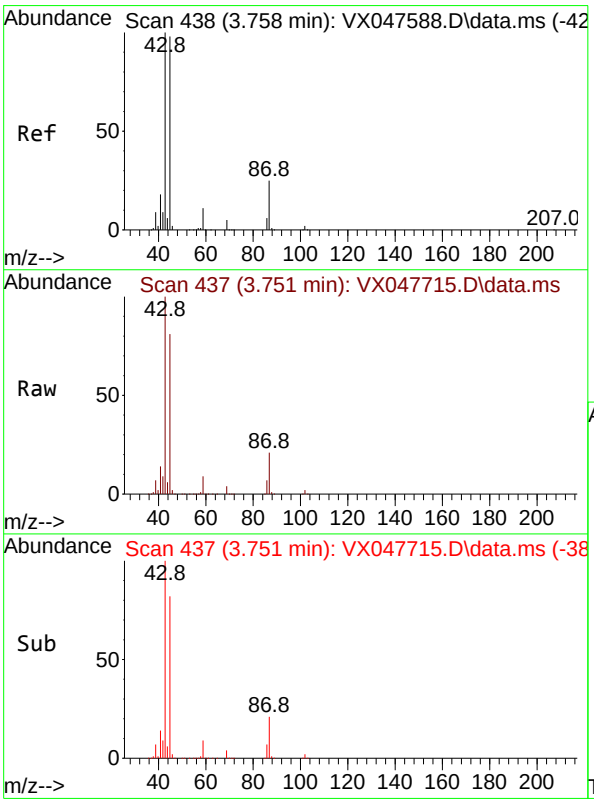
#21
trans-1,2-Dichloroethene
Concen: 56.694 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 96 Resp: 108564

Ion	Ratio	Lower	Upper
96	100		
61	139.6	116.2	174.2
98	65.1	49.3	73.9

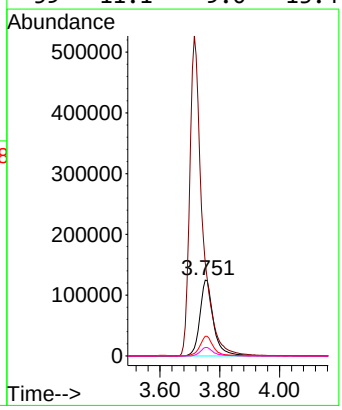


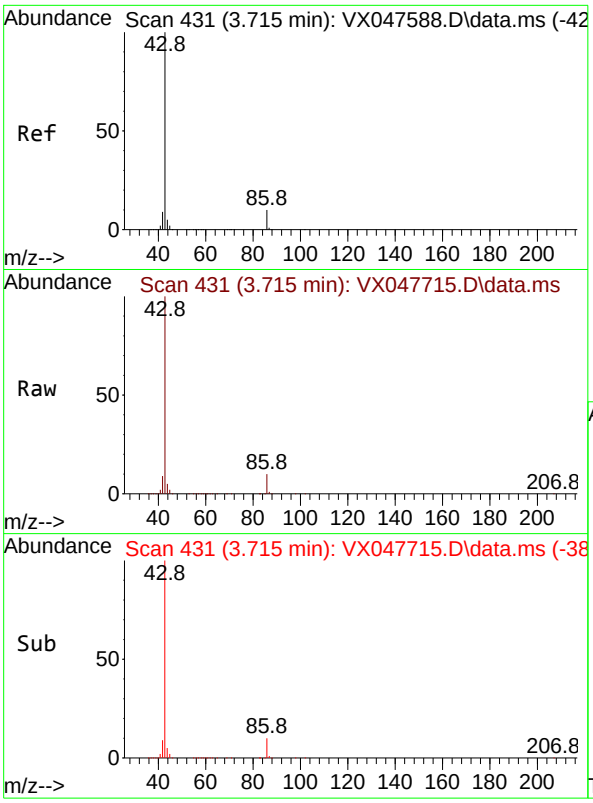


#22
Diisopropyl ether
Concen: 55.347 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 45 Resp: 393686

Ion	Ratio	Lower	Upper
45	100		
43	122.3	81.0	121.4#
87	25.9	20.3	30.5
59	11.1	9.0	13.4



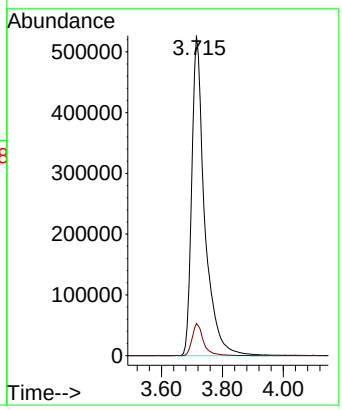


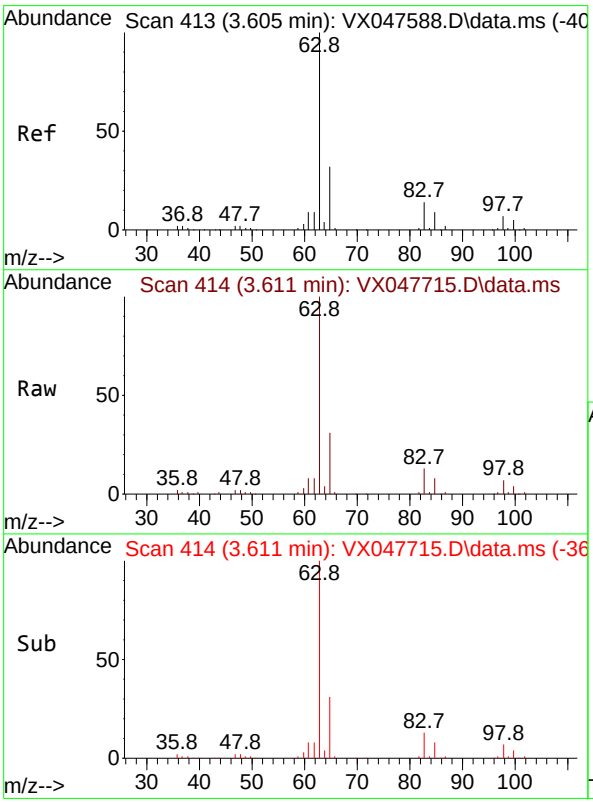
#23
Vinyl Acetate
Concen: 272.655 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 43 Resp: 1552184

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8

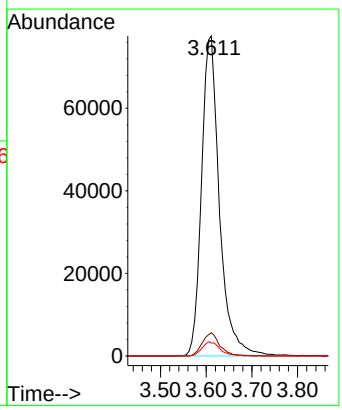


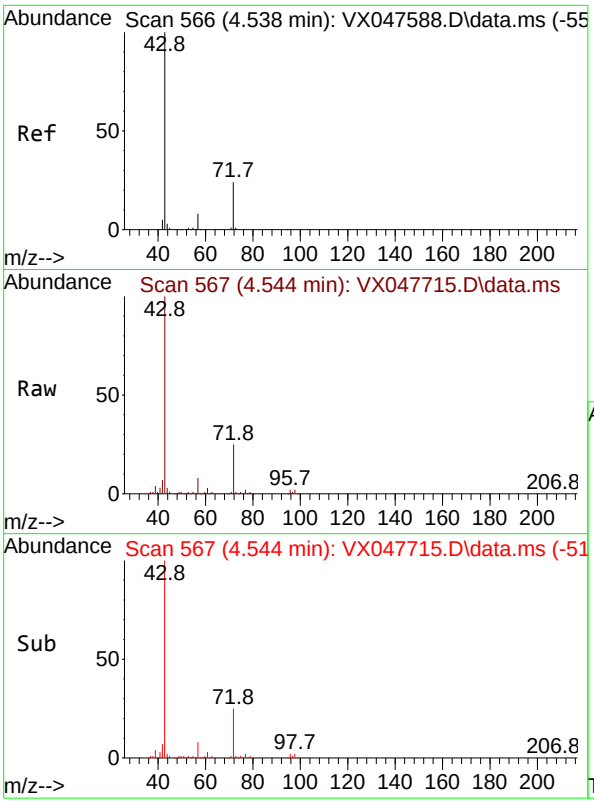


#24
1,1-Dichloroethane
Concen: 55.769 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 63 Resp: 210842

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.1	2.3	6.9



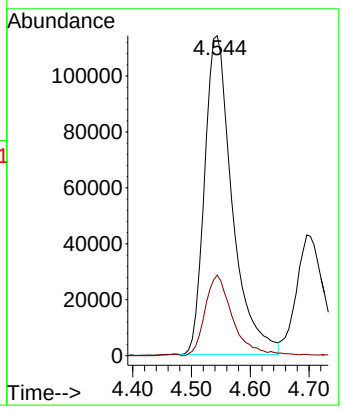


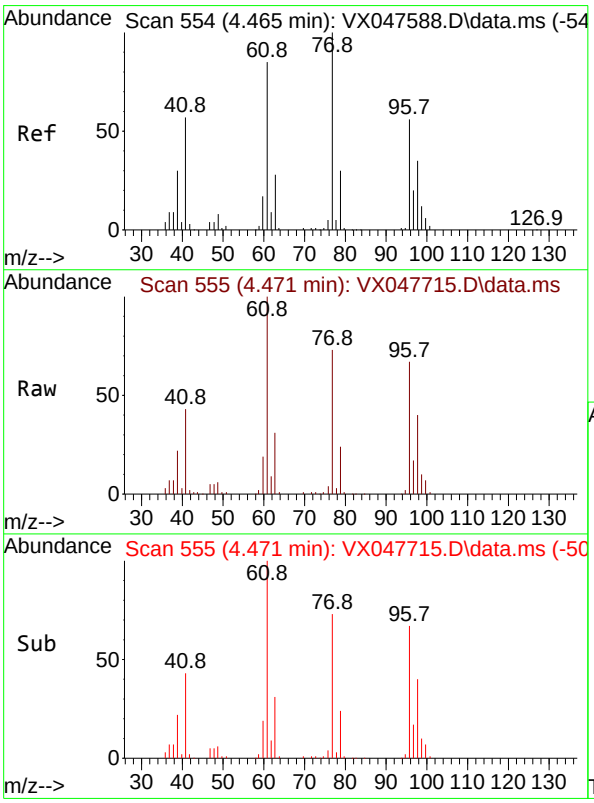
#25
2-Butanone
Concen: 288.325 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 43 Resp: 372626

Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.1	30.1

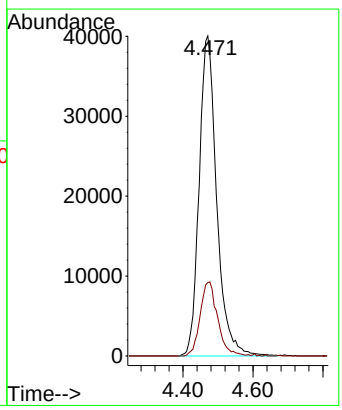


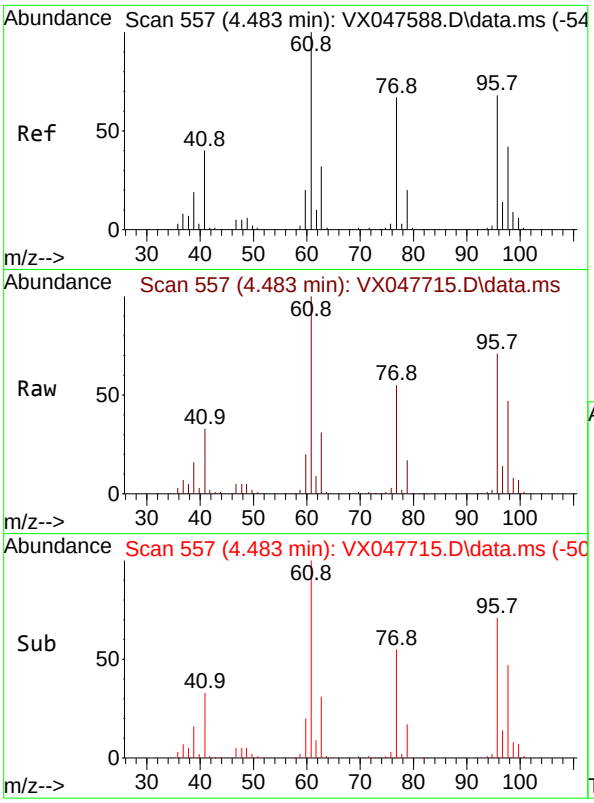


#26
2,2-Dichloropropane
Concen: 44.385 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 77 Resp: 139487

Ion	Ratio	Lower	Upper
77	100		
97	23.0	10.9	32.7



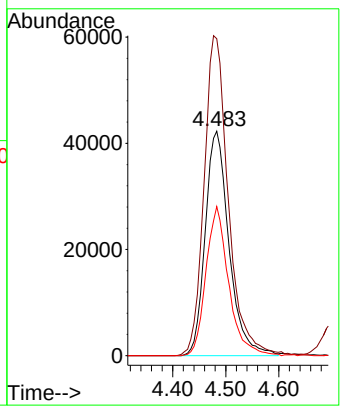


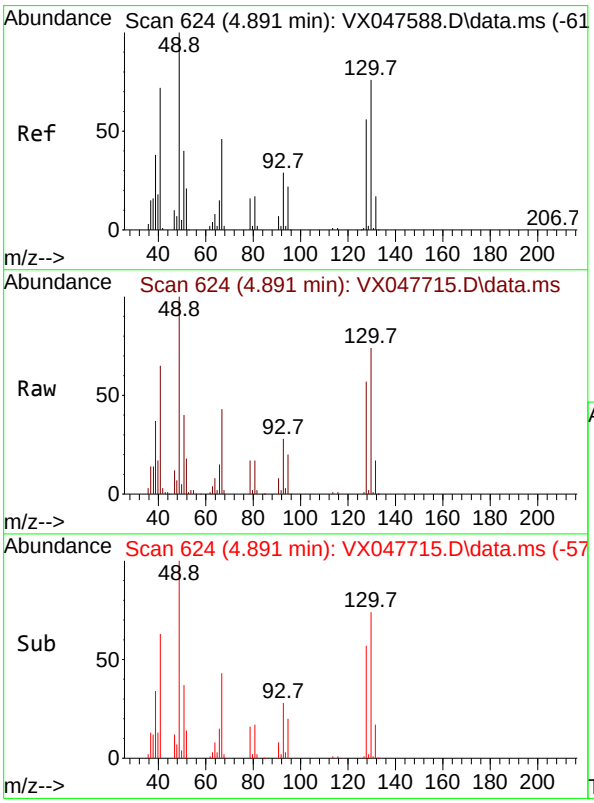
#27
cis-1,2-Dichloroethene
Concen: 56.296 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 96 Resp: 132021

Ion	Ratio	Lower	Upper
96	100		
61	145.2	0.0	303.2
98	63.4	0.0	127.8

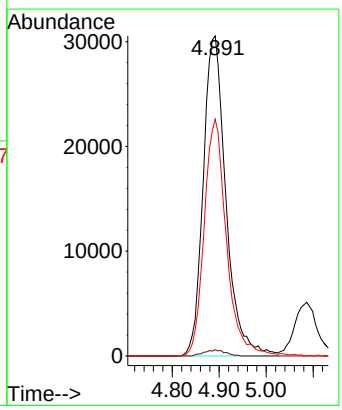


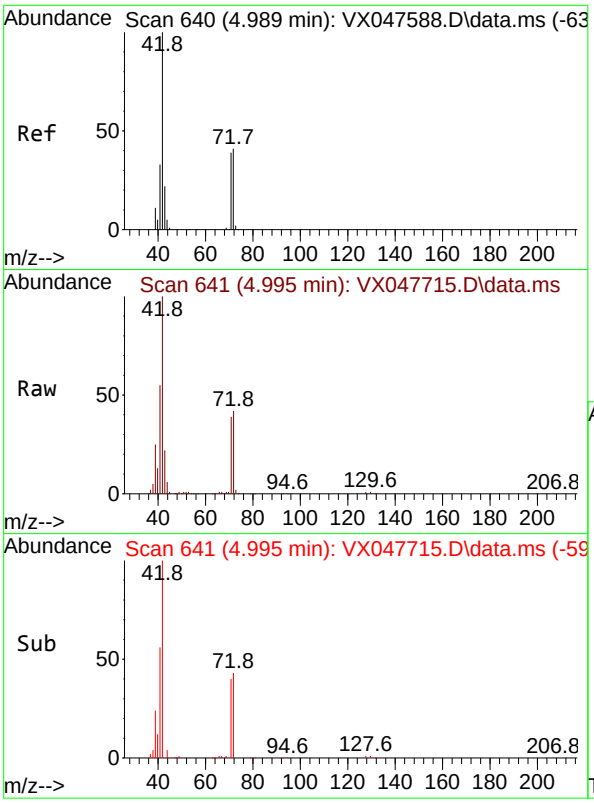


#28
Bromochloromethane
Concen: 62.013 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 49 Resp: 102352

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.3	57.8	86.8



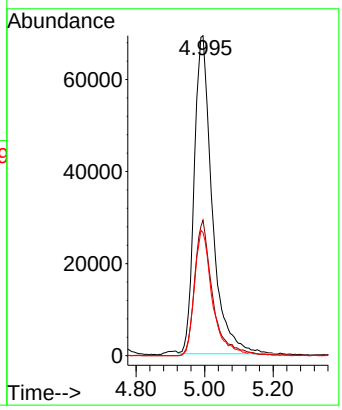


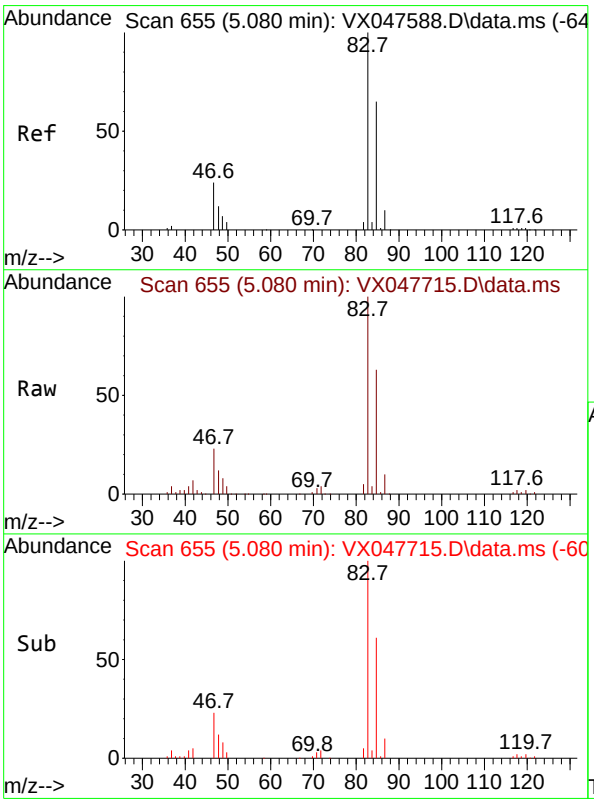
#29
Tetrahydrofuran
Concen: 323.998 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 42 Resp: 251898

Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.2	51.2
71	39.9	31.9	47.9

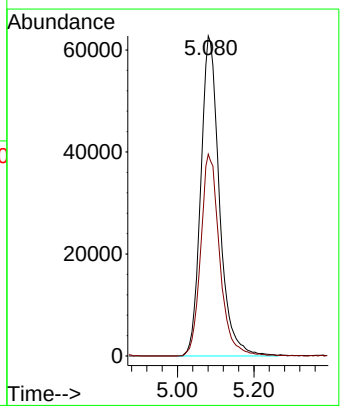


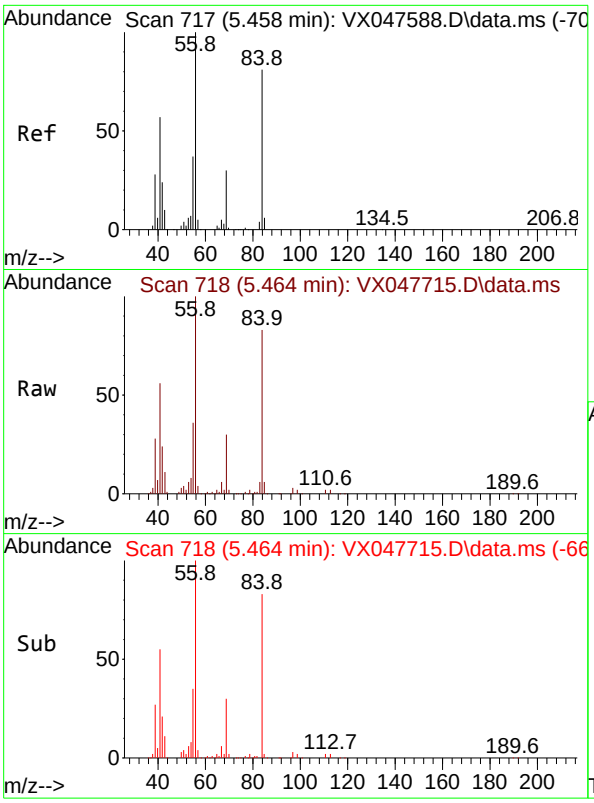


#30
Chloroform
Concen: 55.407 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 83 Resp: 211676

Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.8	77.6



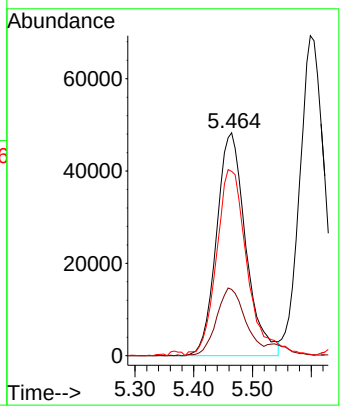


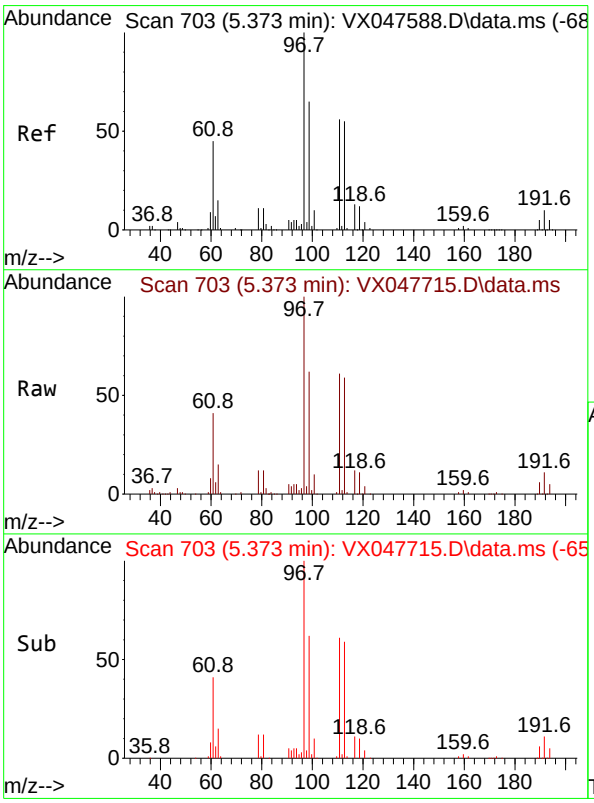
#31
Cyclohexane
Concen: 52.913 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 56 Resp: 166612

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.8	35.8
84	81.1	64.6	97.0

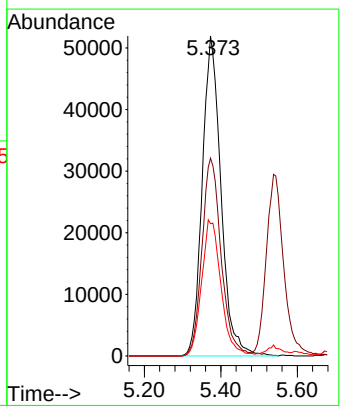


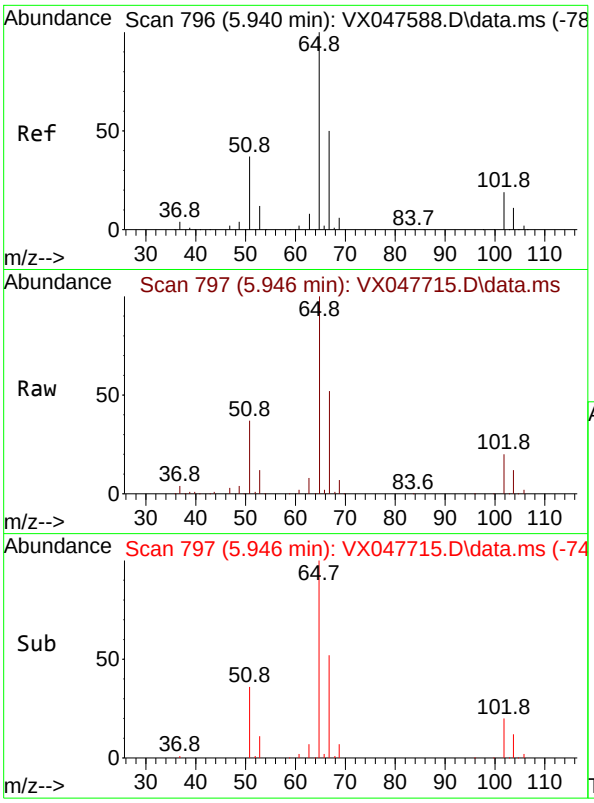


#32
1,1,1-Trichloroethane
Concen: 54.421 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 97 Resp: 176354

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.6	76.0
61	44.0	35.8	53.8



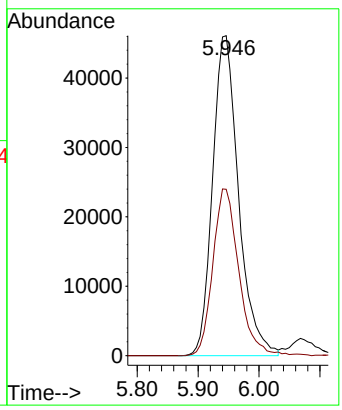


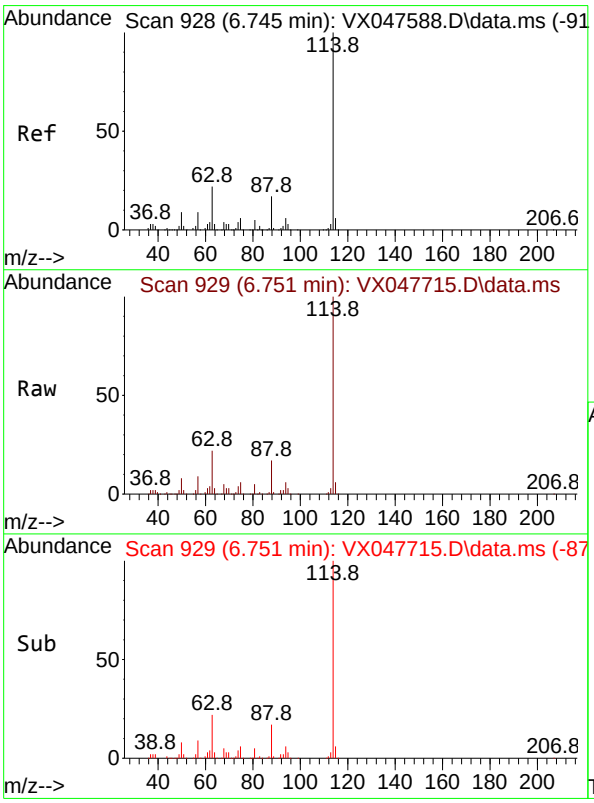
#33
1,2-Dichloroethane-d4
Concen: 57.212 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 65 Resp: 136329

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0

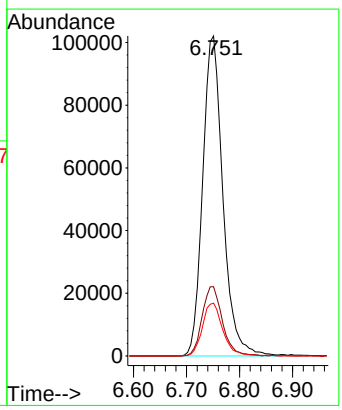


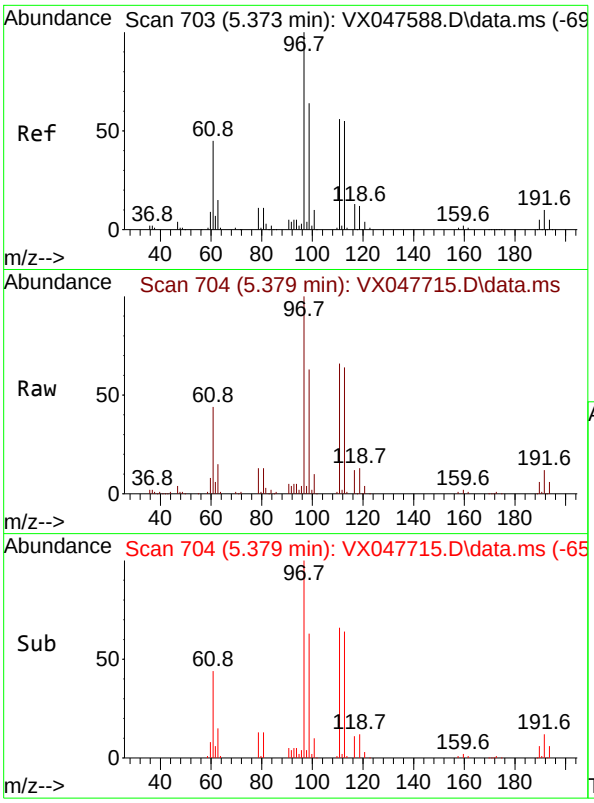


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:114 Resp: 270395

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	44.0
88	16.5	0.0	34.2



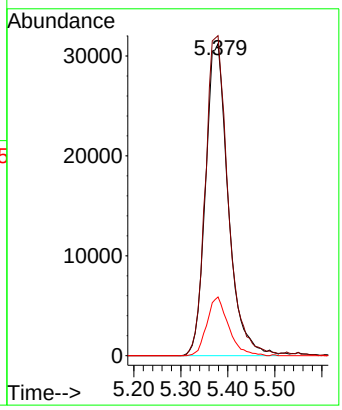


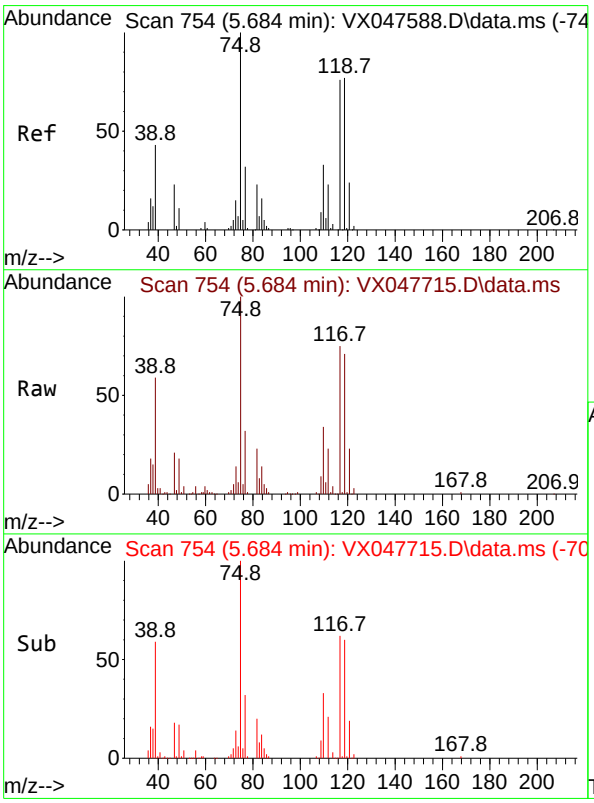
#35
Dibromofluoromethane
Concen: 57.693 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:113 Resp: 104622

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	18.0	14.2	21.4

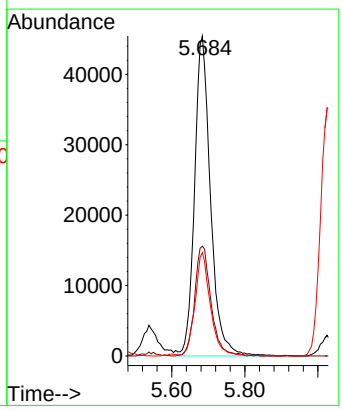


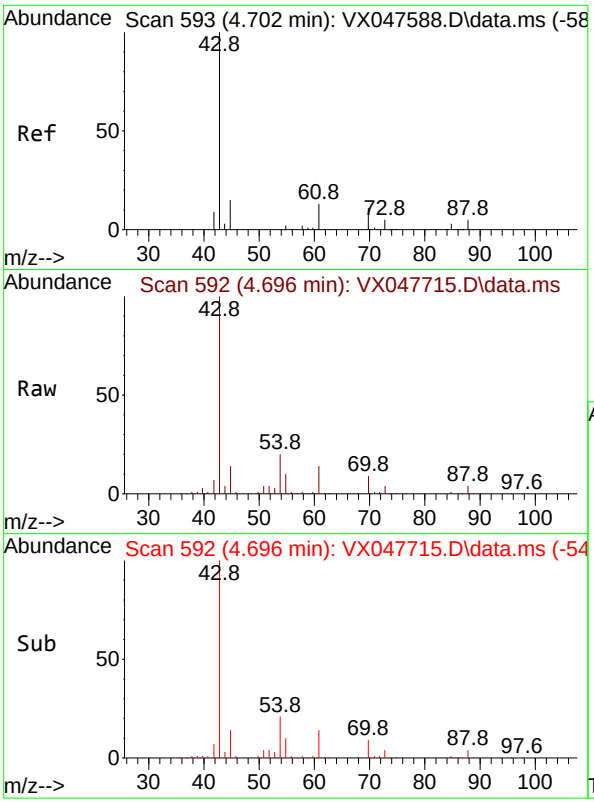


#36
1,1-Dichloropropene
Concen: 52.118 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 75 Resp: 138105

Ion	Ratio	Lower	Upper
75	100		
110	35.2	16.7	50.1
77	31.0	24.3	36.5



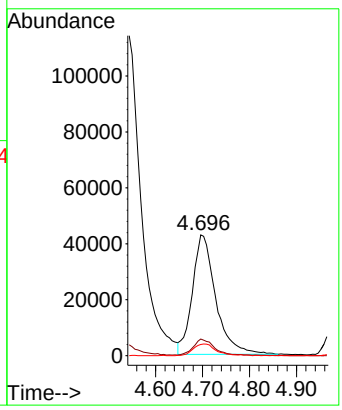


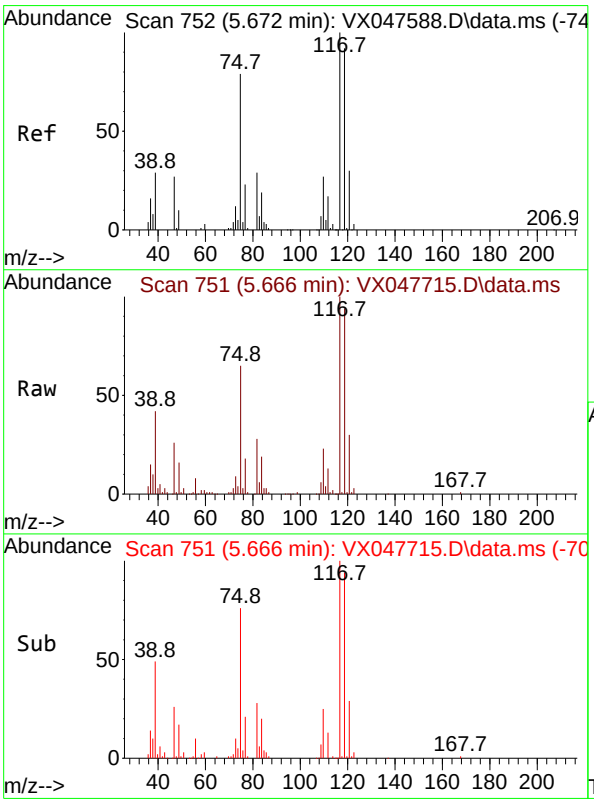
#37
Ethyl Acetate
Concen: 51.998 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 43 Resp: 147529

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	9.4	7.9	11.9

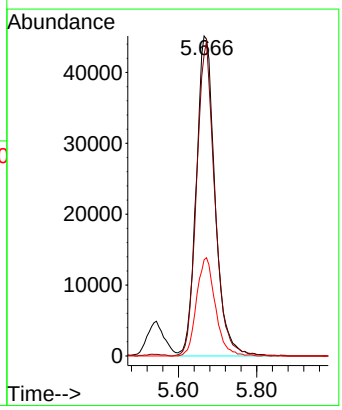


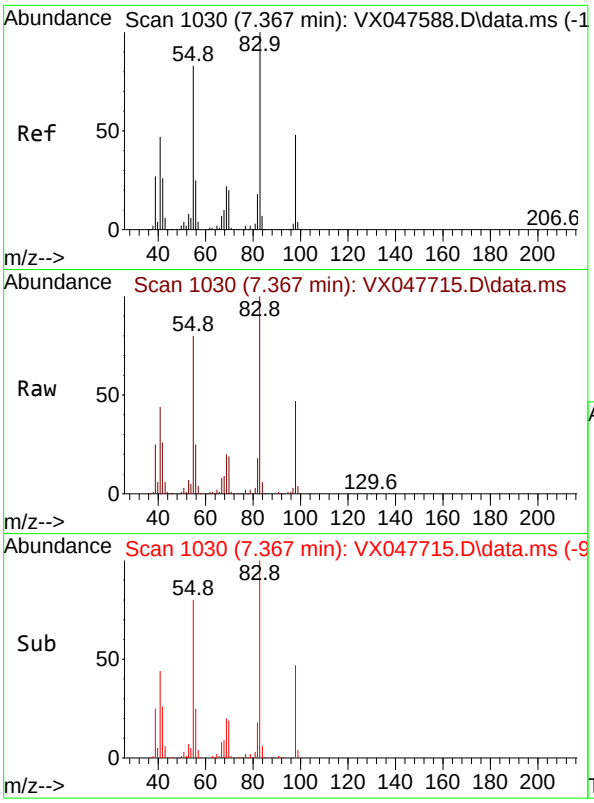


#38
Carbon Tetrachloride
Concen: 52.194 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:117 Resp: 150271

Ion	Ratio	Lower	Upper
117	100		
119	94.0	73.4	110.2
121	30.0	23.8	35.6



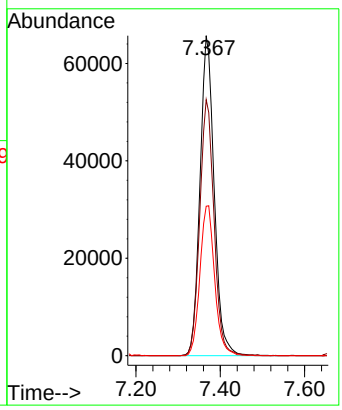


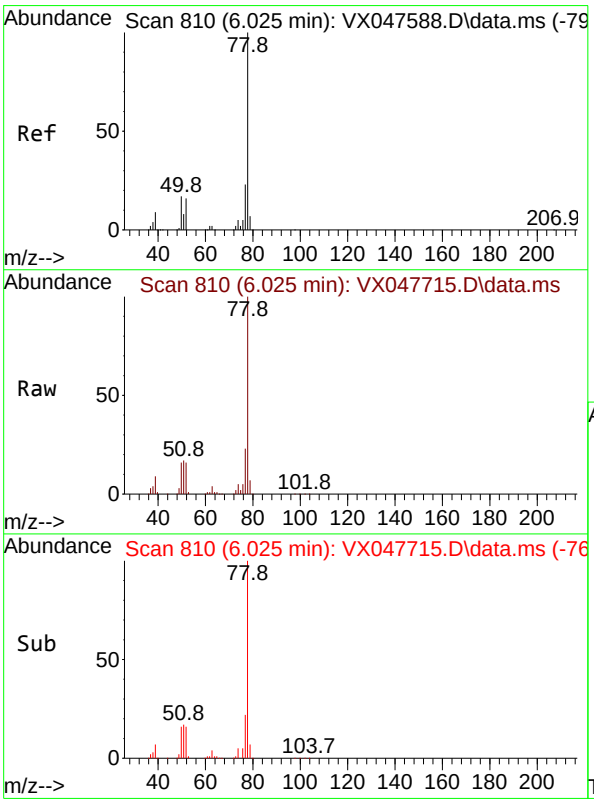
#39
Methylcyclohexane
Concen: 51.153 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 83 Resp: 153865

Ion	Ratio	Lower	Upper
83	100		
55	80.0	66.4	99.6
98	46.7	38.1	57.1

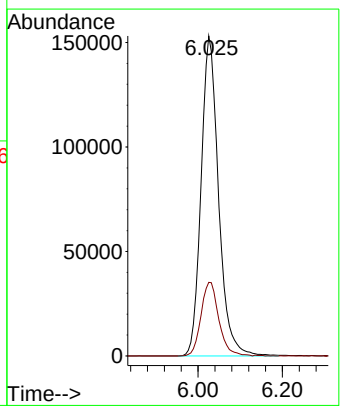


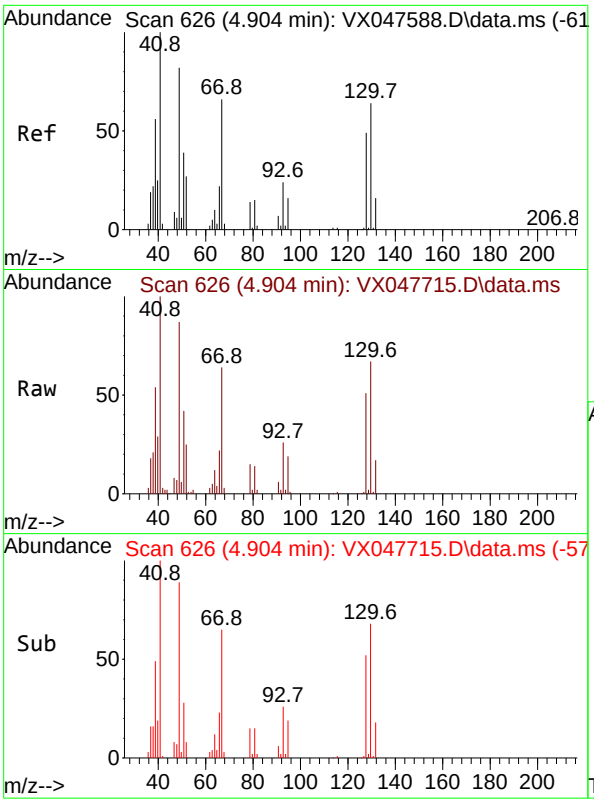


#40
Benzene
Concen: 54.879 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 78 Resp: 441675

Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.8	28.2



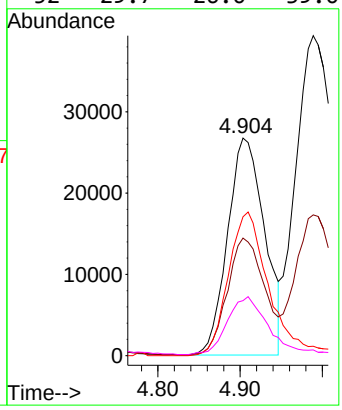


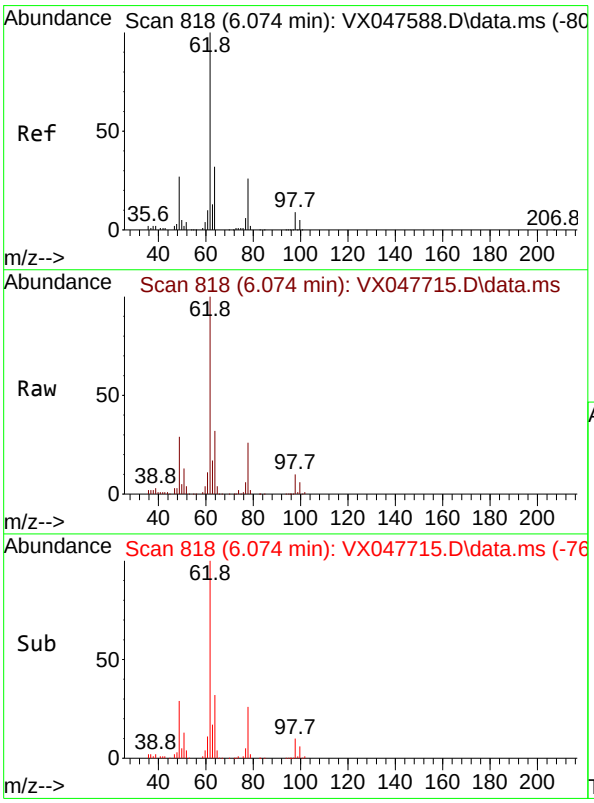
#41
Methacrylonitrile
Concen: 57.102 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 41 Resp: 83638

Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.3	64.9
67	74.1	58.6	87.8
52	29.7	26.0	39.0

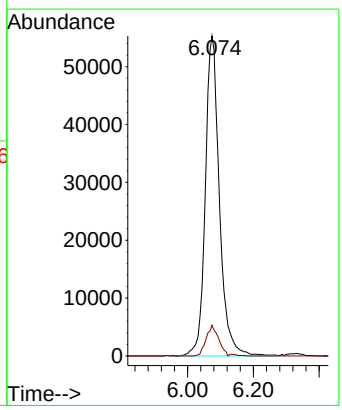


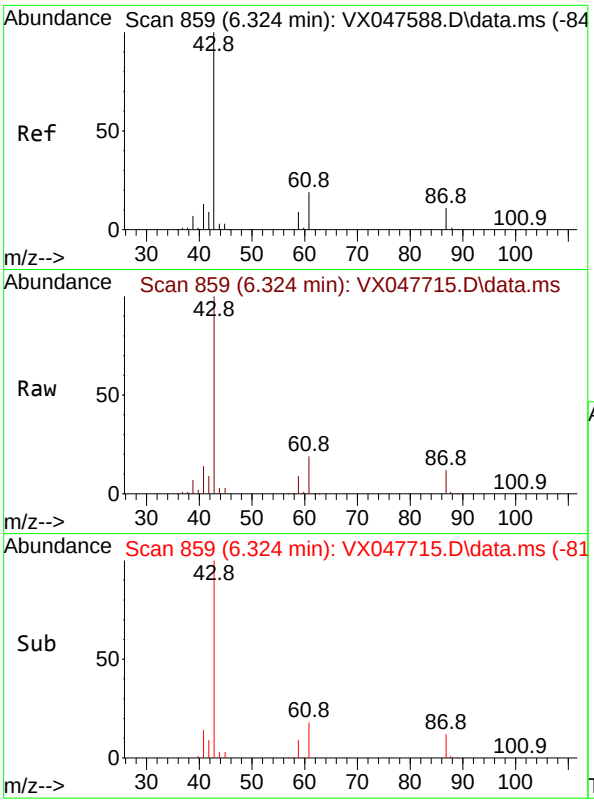


#42
1,2-Dichloroethane
Concen: 53.778 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 62 Resp: 164680

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0



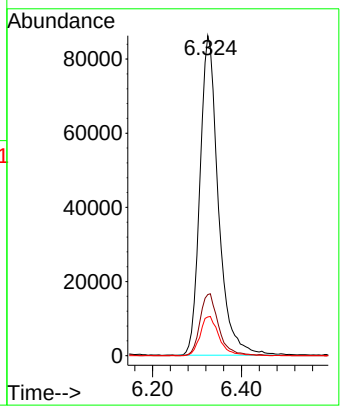


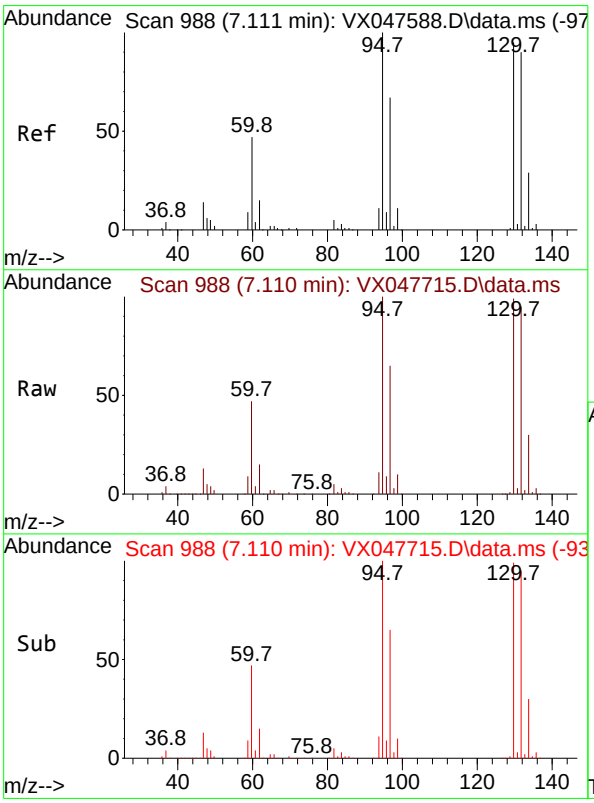
#43
Isopropyl Acetate
Concen: 53.417 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 43 Resp: 248562

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.2	22.8
87	12.6	9.6	14.4

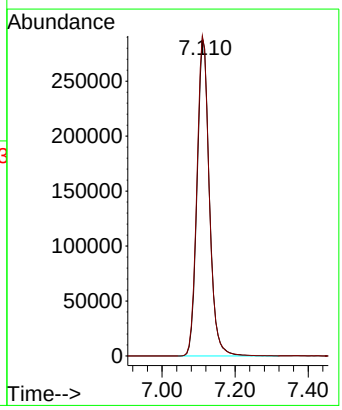


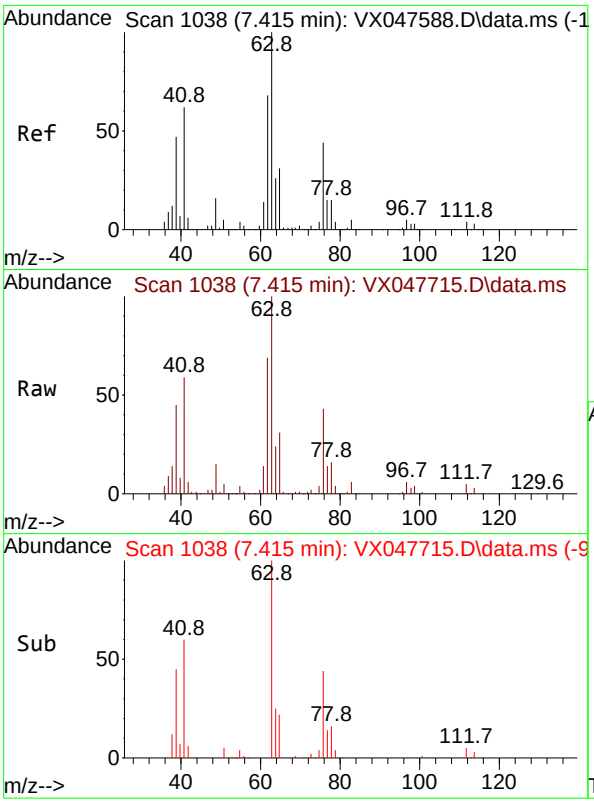


#44
Trichloroethene
Concen: 347.474 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:130 Resp: 676102

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	210.8



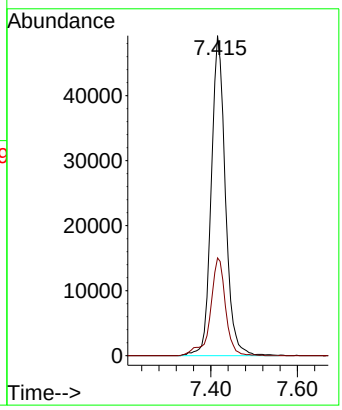


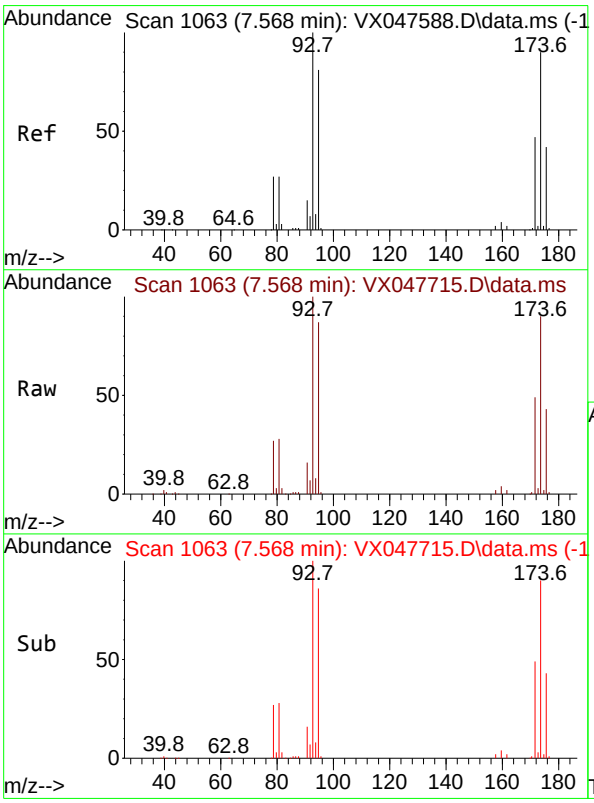
#45
1,2-Dichloropropane
Concen: 54.048 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 63 Resp: 111385

Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.7	37.1

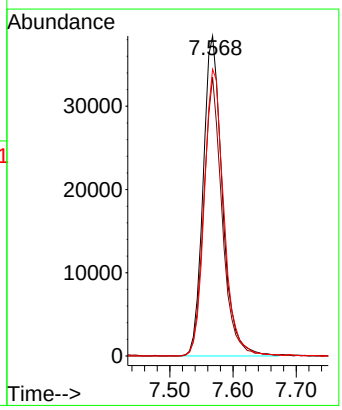


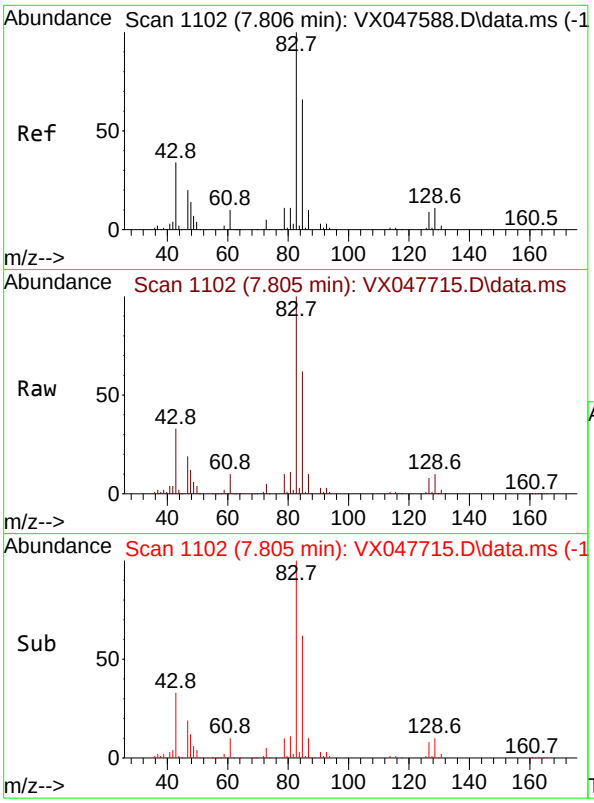


#46
Dibromomethane
Concen: 54.206 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 93 Resp: 81291

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.0	97.6
174	91.0	71.6	107.4



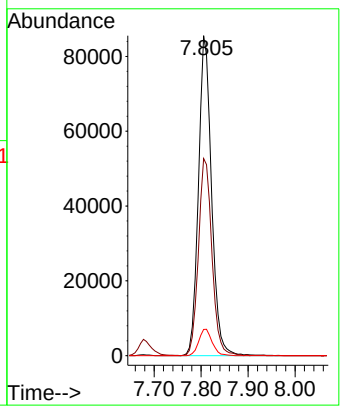


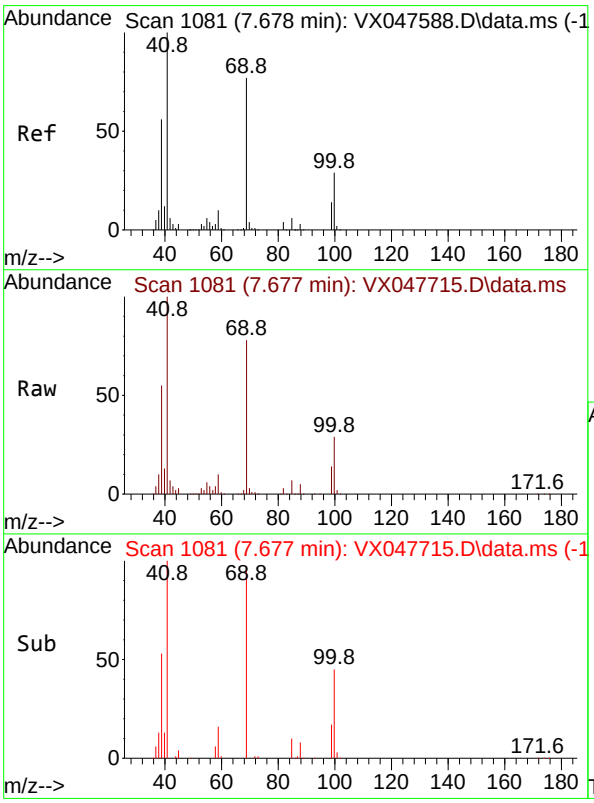
#47
Bromodichloromethane
Concen: 53.549 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 83 Resp: 165717

Ion	Ratio	Lower	Upper
83	100		
85	61.5	52.5	78.7
127	8.2	6.9	10.3

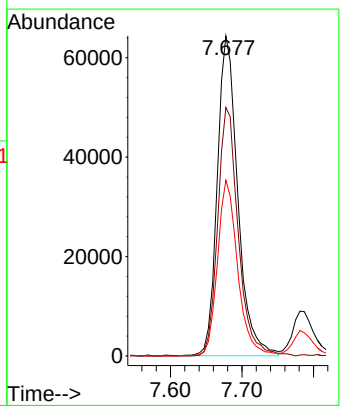


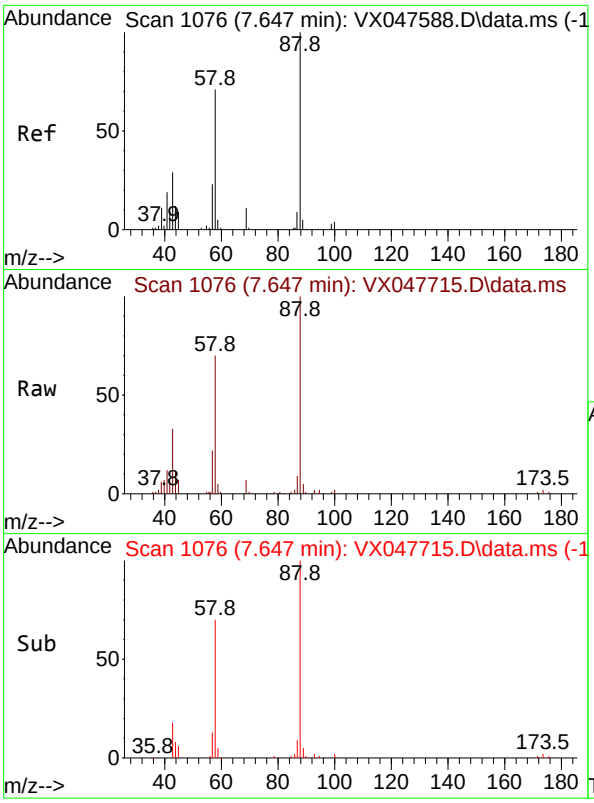


#48
Methyl methacrylate
Concen: 55.339 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 41 Resp: 128265

Ion	Ratio	Lower	Upper
41	100		
69	77.7	61.4	92.2
39	54.3	45.8	68.6



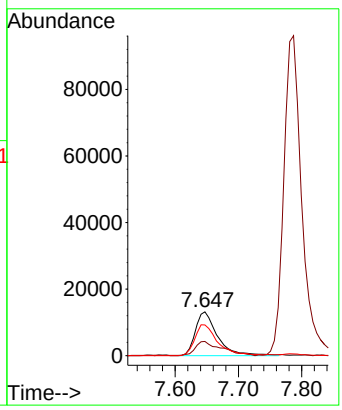


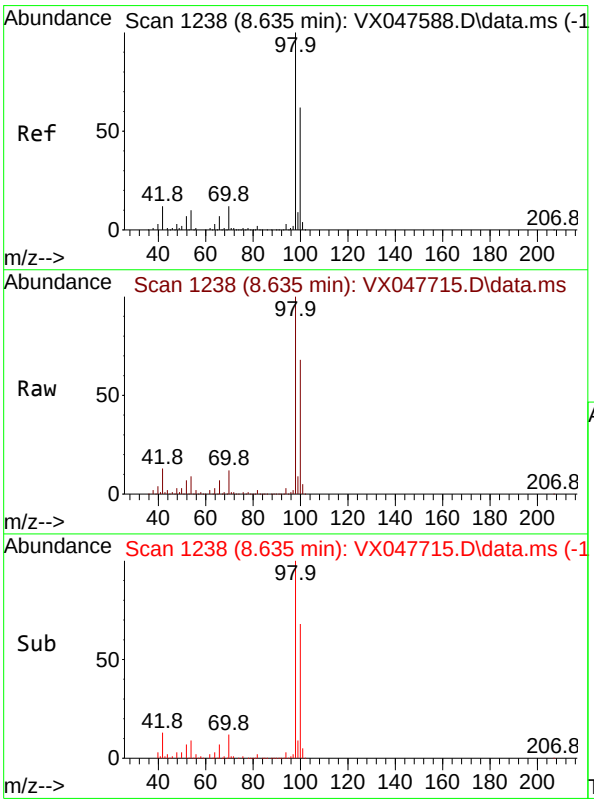
#49
1,4-Dioxane
Concen: 1370.775 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 88 Resp: 32109

Ion	Ratio	Lower	Upper
88	100		
43	38.8	30.2	45.2
58	73.2	59.5	89.3

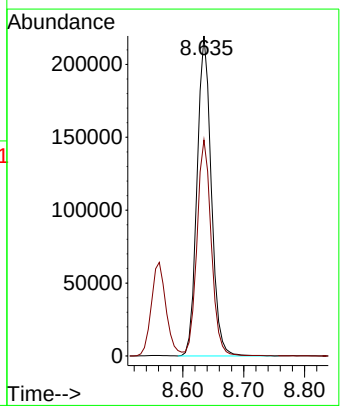


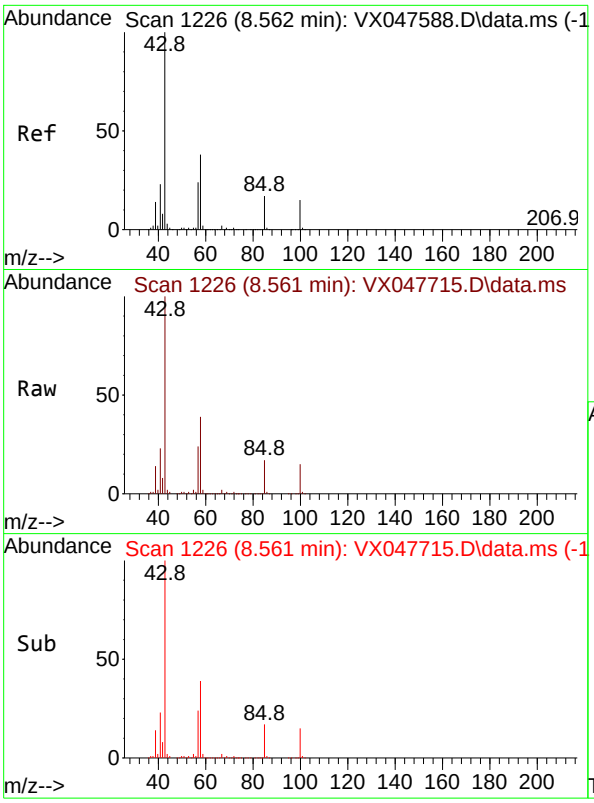


#50
Toluene-d8
Concen: 56.625 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 98 Resp: 355310

Ion	Ratio	Lower	Upper
98	100		
100	68.2	53.0	79.4



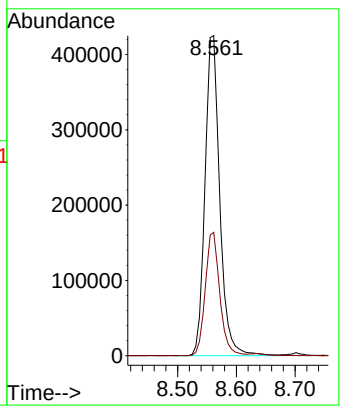


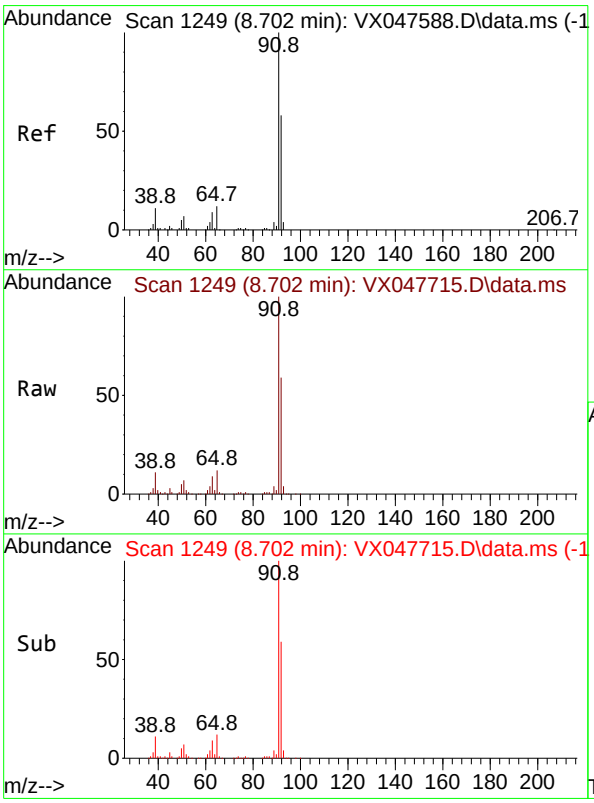
#51
4-Methyl-2-Pentanone
Concen: 287.265 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 43 Resp: 741126

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5

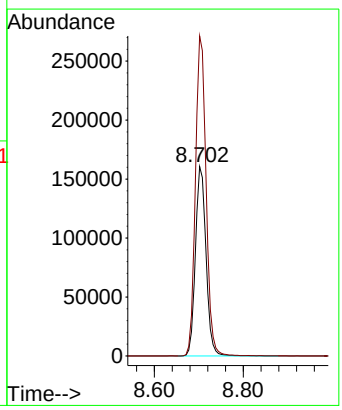


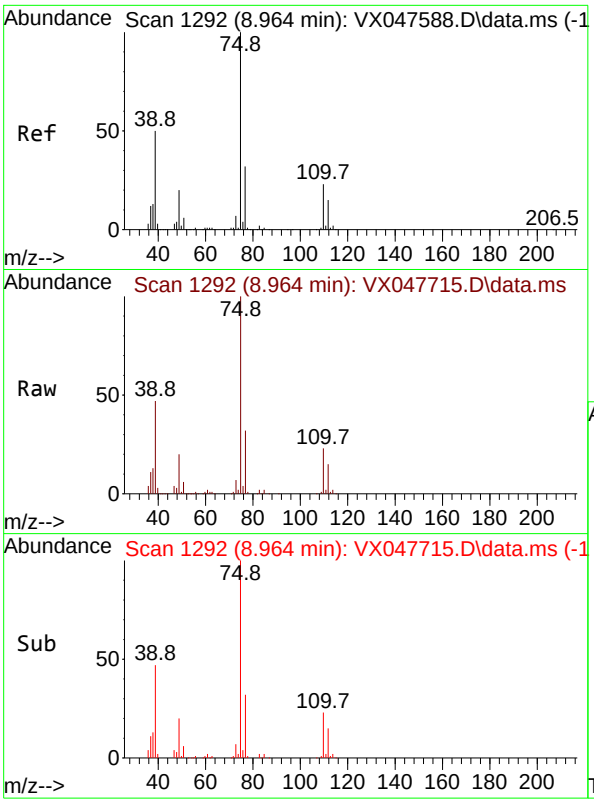


#52
Toluene
Concen: 53.583 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 92 Resp: 265691

Ion	Ratio	Lower	Upper
92	100		
91	169.7	137.1	205.7



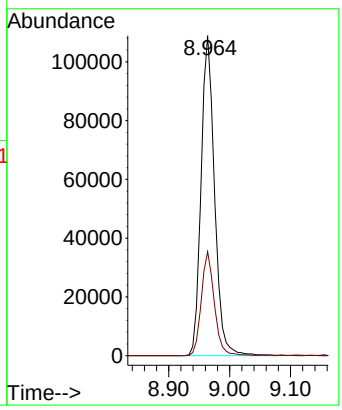


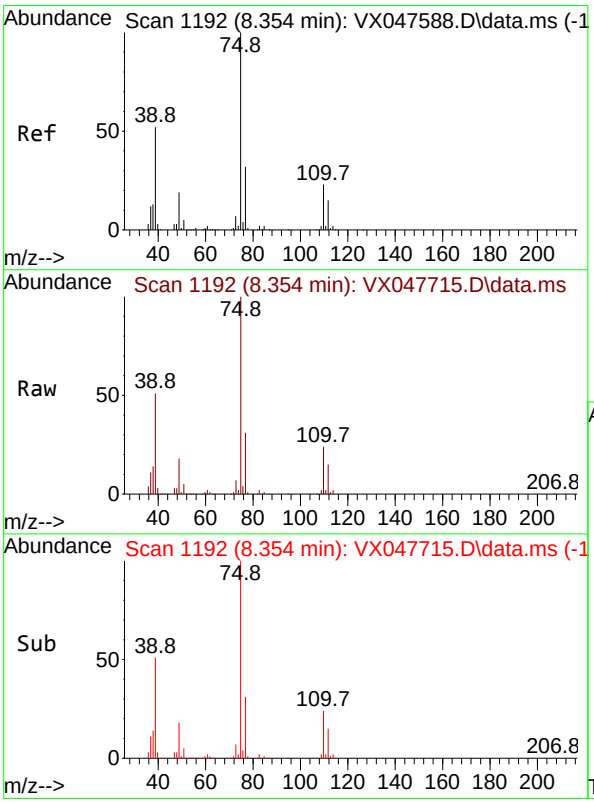
#53
t-1,3-Dichloropropene
Concen: 53.106 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 75 Resp: 167635

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.2

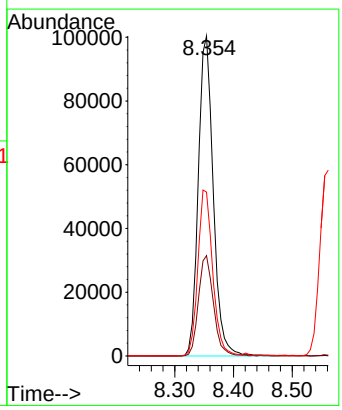


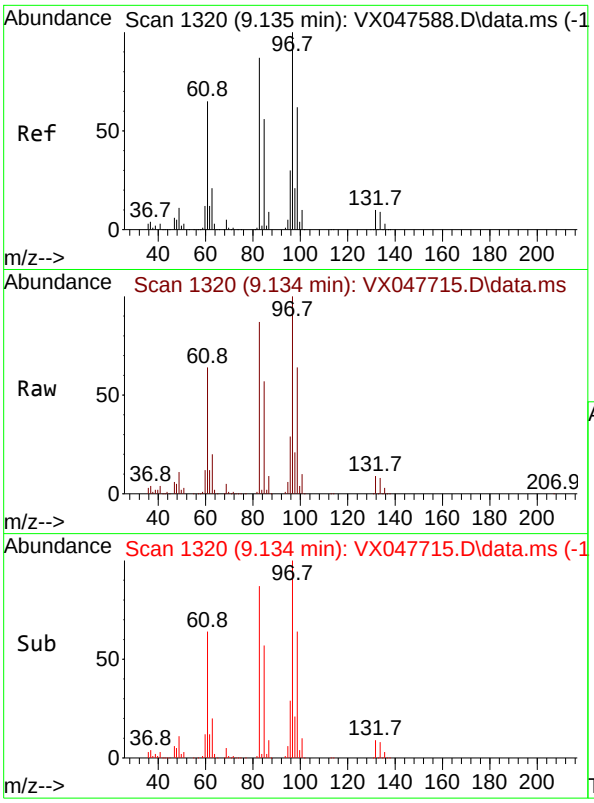


#54
cis-1,3-Dichloropropene
Concen: 52.436 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 75 Resp: 176915

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	51.1	41.4	62.2



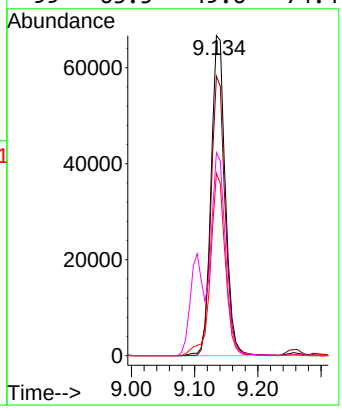


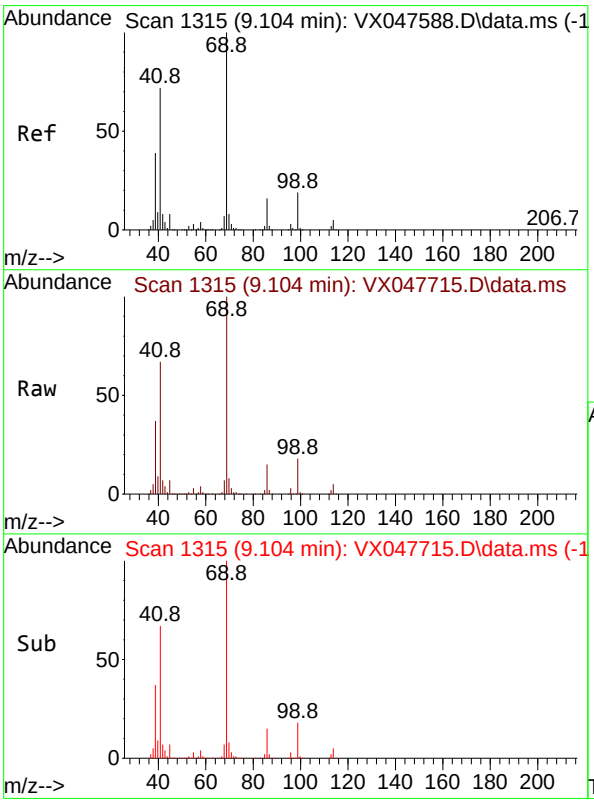
#55
1,1,2-Trichloroethane
Concen: 54.609 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 97 Resp: 104411

Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.6	104.4
85	57.0	45.0	67.6
99	63.5	49.6	74.4

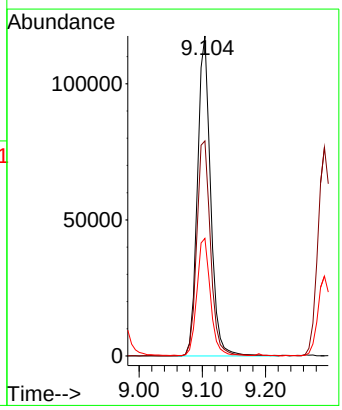


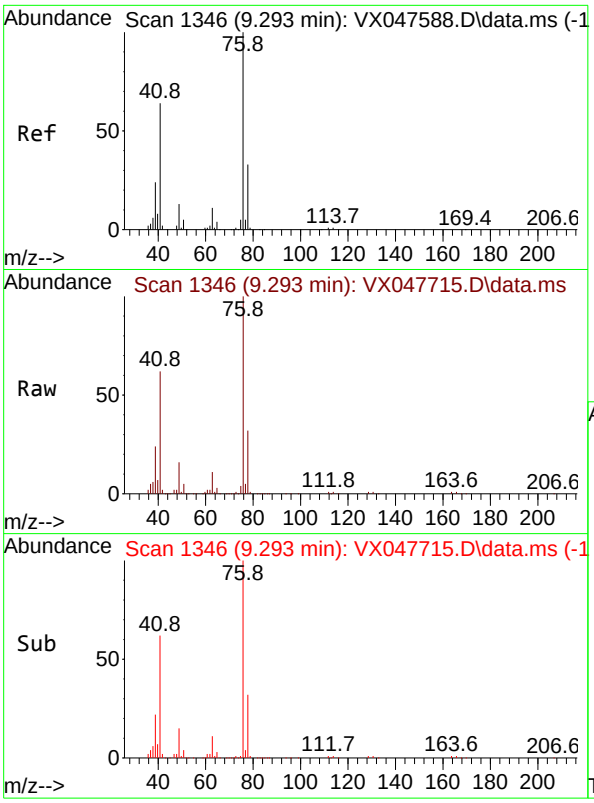


#56
Ethyl methacrylate
Concen: 56.764 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 69 Resp: 170443

Ion	Ratio	Lower	Upper
69	100		
41	70.3	58.6	87.8
39	37.5	31.5	47.3



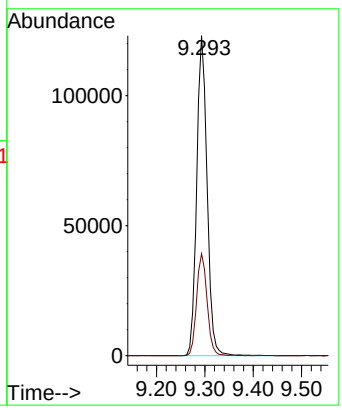


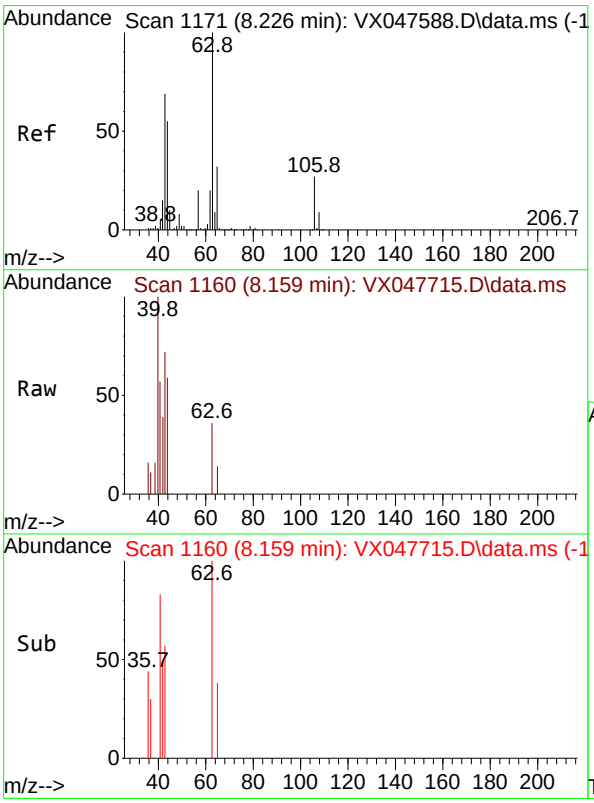
#57
1,3-Dichloropropane
Concen: 55.685 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 76 Resp: 182893

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4

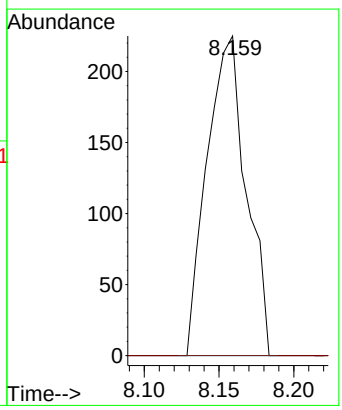


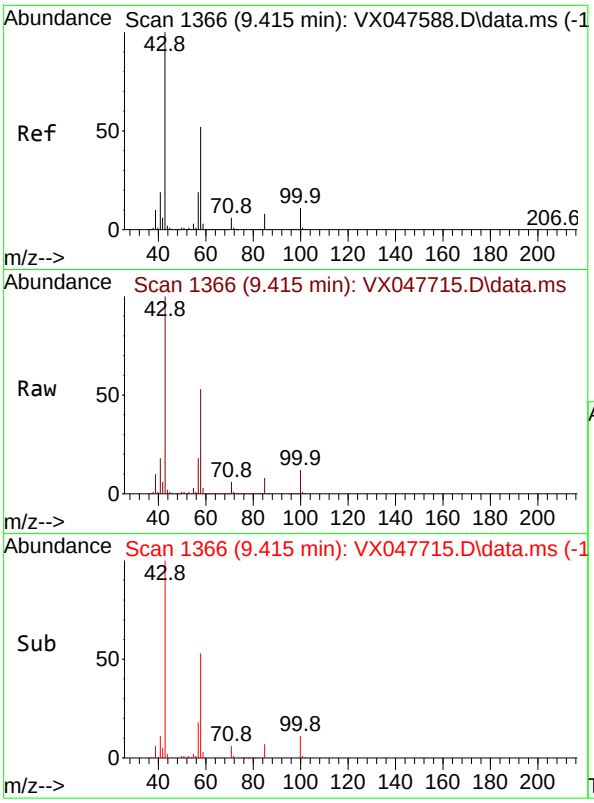


#58
2-Chloroethyl Vinyl ether
Concen: 8.180 ug/l
RT: 8.159 min Scan# 1160
Delta R.T. -0.067 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 63 Resp: 411

Ion	Ratio	Lower	Upper
63	100		
106	0.0	21.9	32.9#



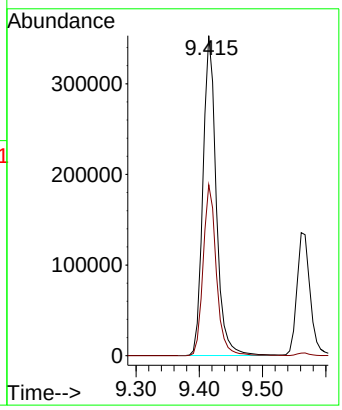


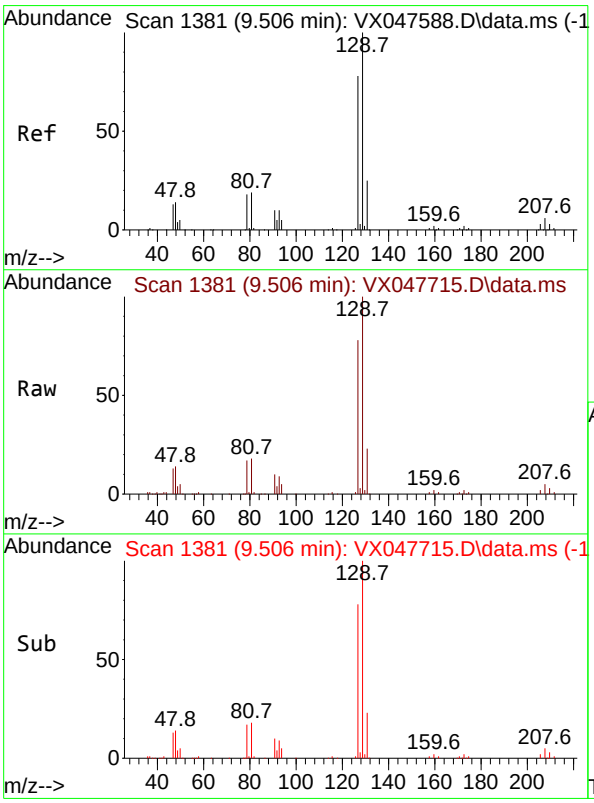
#59
2-Hexanone
Concen: 278.577 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 43 Resp: 516181

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.1	78.2

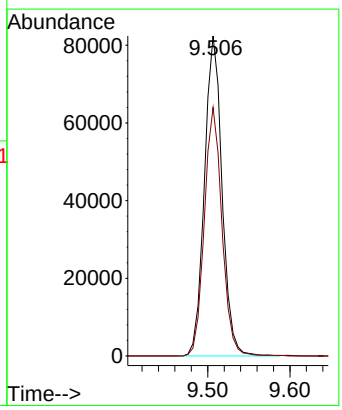


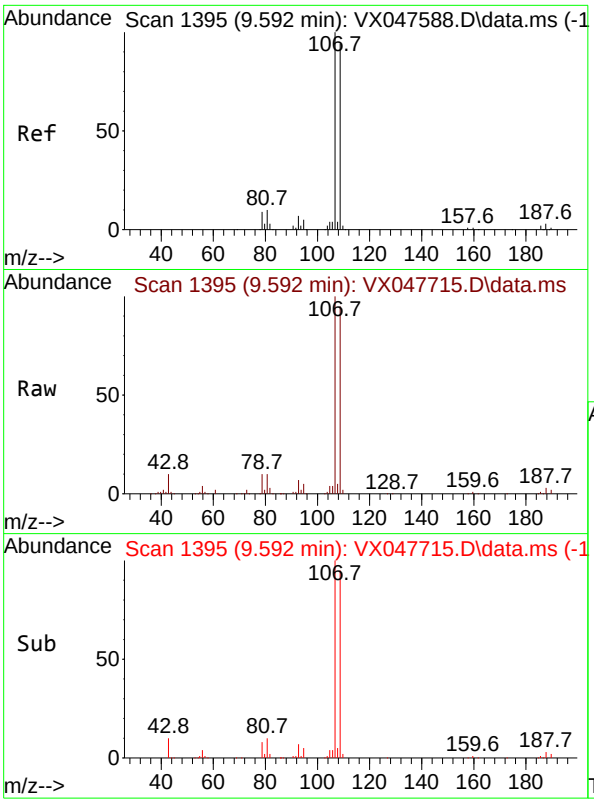


#60
Dibromochloromethane
Concen: 55.672 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:129 Resp: 122647

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.4	115.2



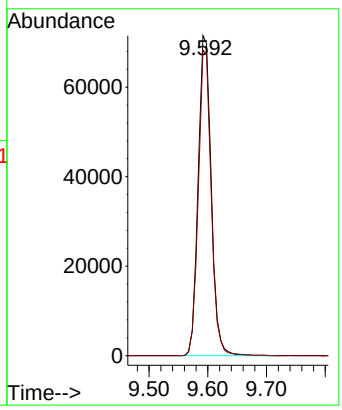


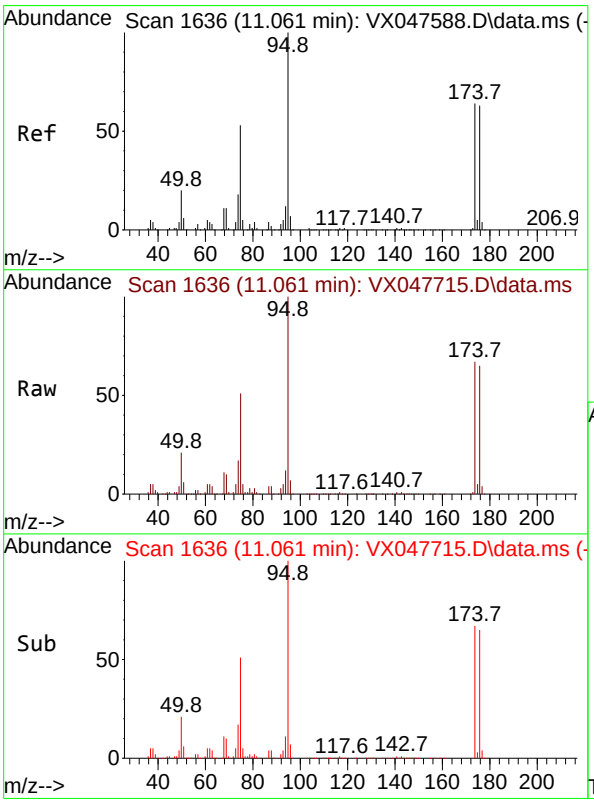
#61
1,2-Dibromoethane
Concen: 56.847 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:107 Resp: 110705

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.3	112.9

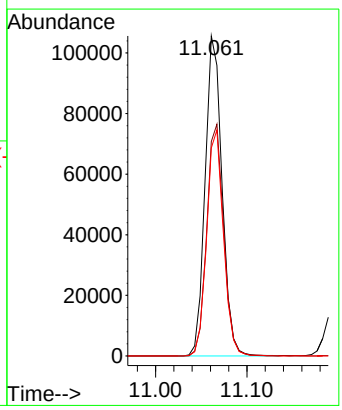


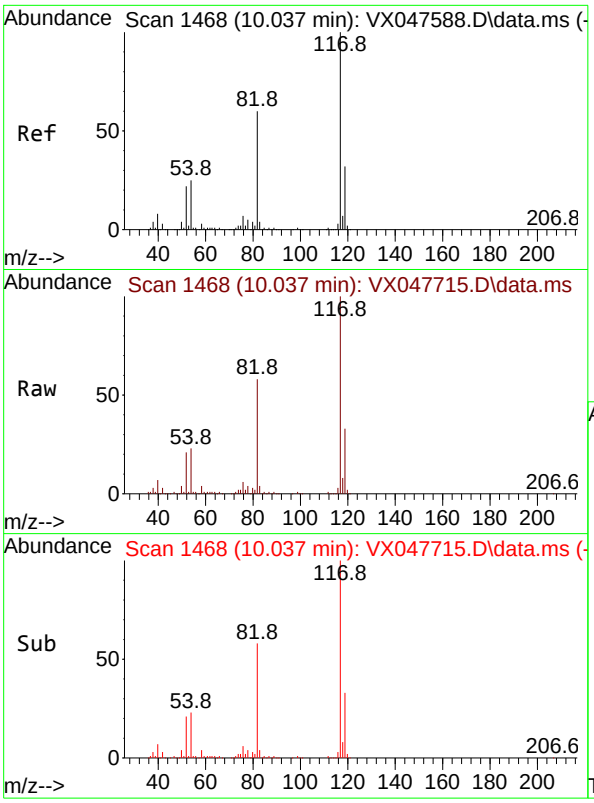


#62
4-Bromofluorobenzene
Concen: 56.821 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 95 Resp: 135314

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	141.6
176	69.9	0.0	138.4



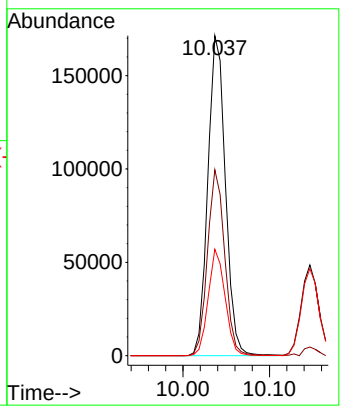


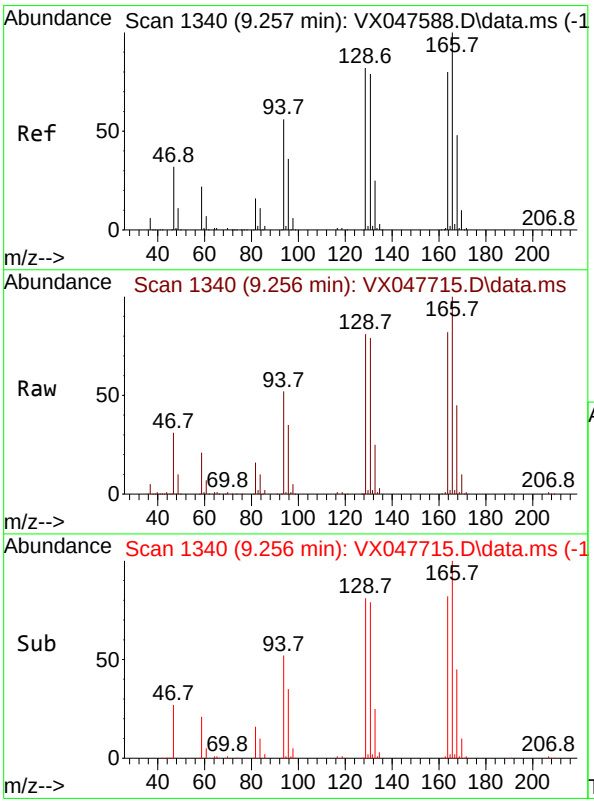
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:117 Resp: 241438

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	33.2	25.2	37.8

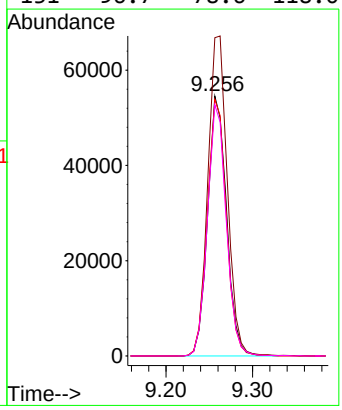


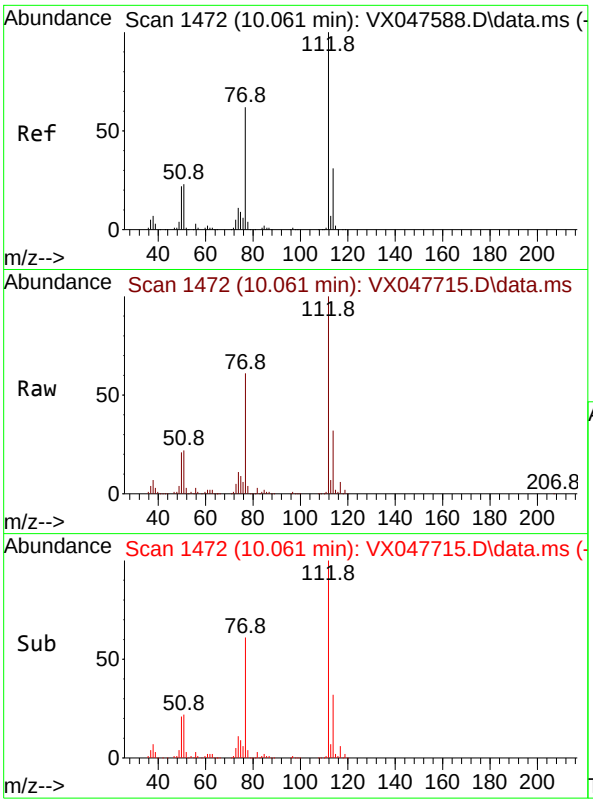


#64
Tetrachloroethene
Concen: 52.520 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:164 Resp: 82663

Ion	Ratio	Lower	Upper
164	100		
166	122.4	100.2	150.2
129	98.7	81.8	122.6
131	96.7	78.6	118.0



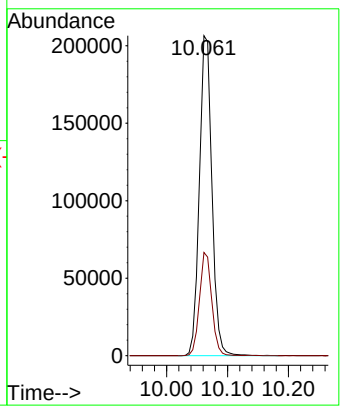


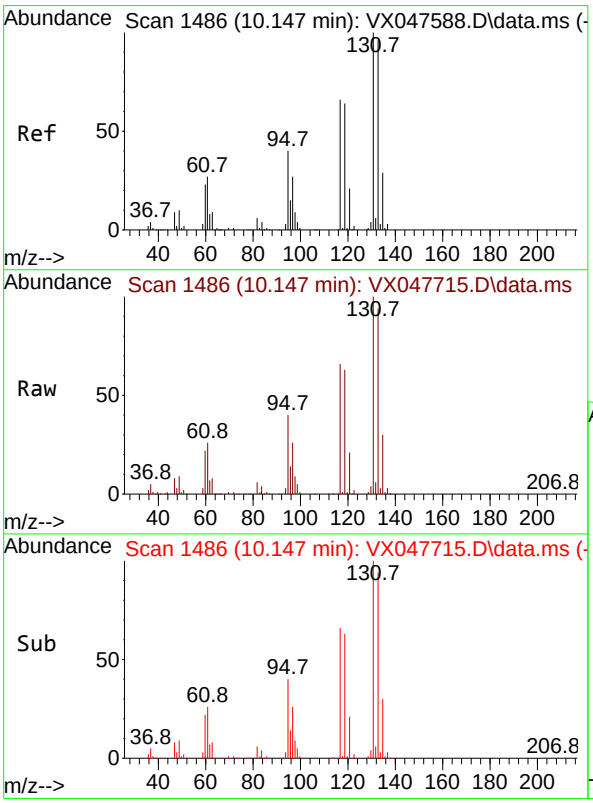
#65
Chlorobenzene
Concen: 53.911 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:112 Resp: 295700

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.1	37.7

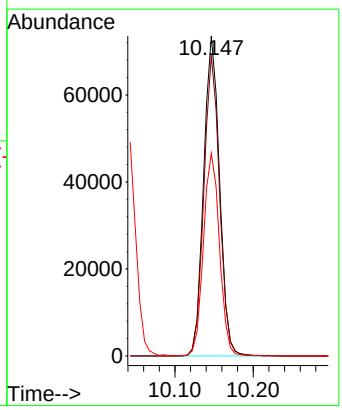


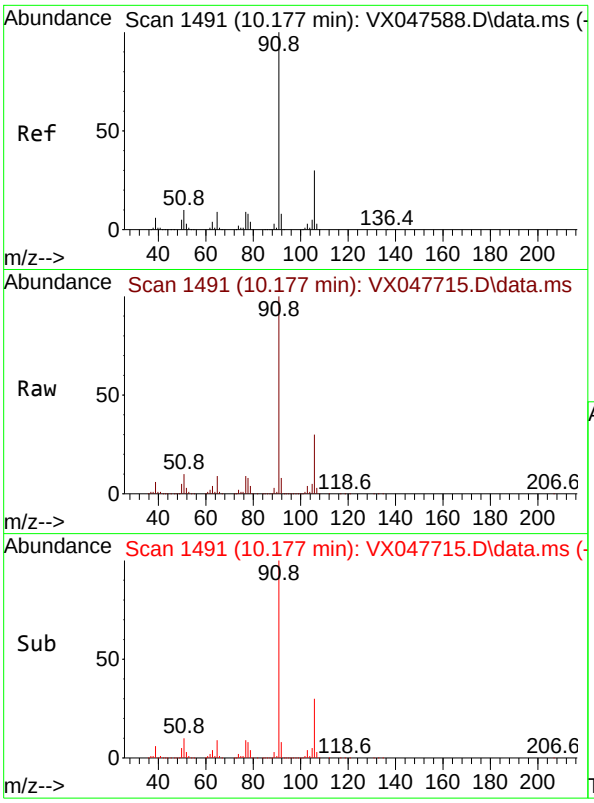


#66
1,1,1,2-Tetrachloroethane
Concen: 54.546 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:131 Resp: 103240

Ion	Ratio	Lower	Upper
131	100		
133	93.1	47.3	142.0
119	64.0	32.0	96.0



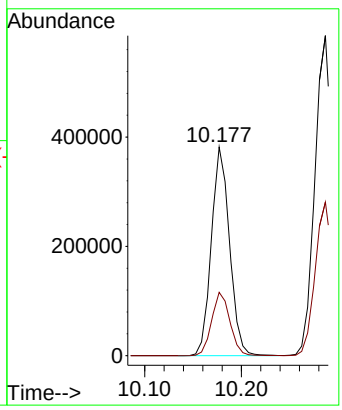


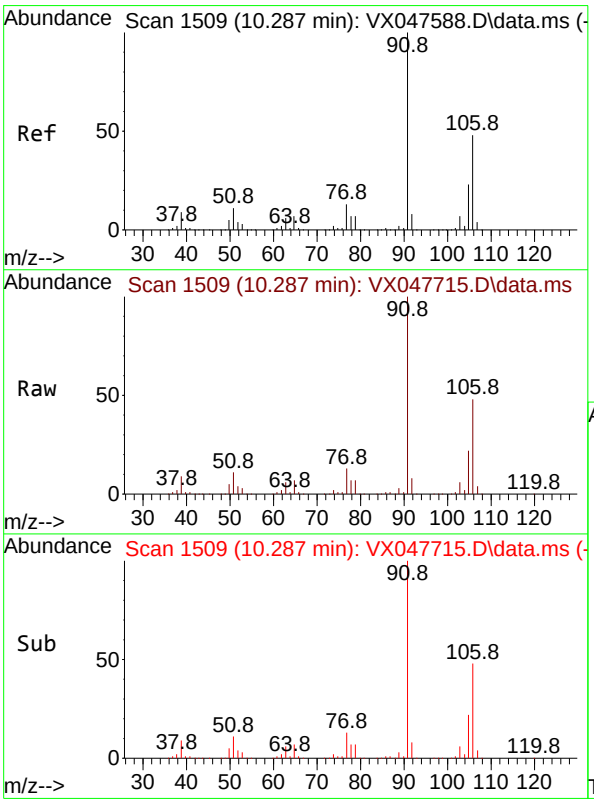
#67
Ethyl Benzene
Concen: 52.704 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 91 Resp: 498788

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5

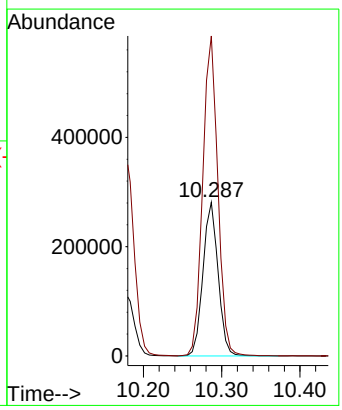


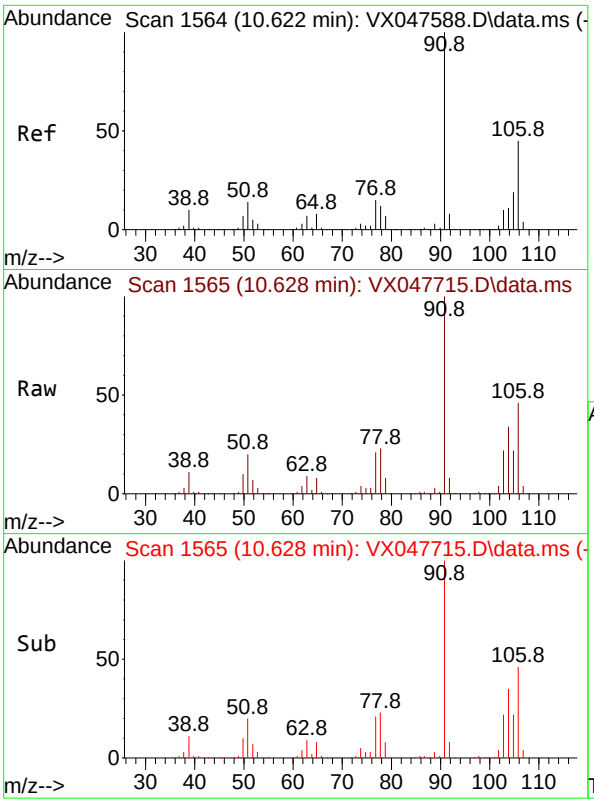


#68
m/p-Xylenes
Concen: 106.818 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:106 Resp: 376275

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8



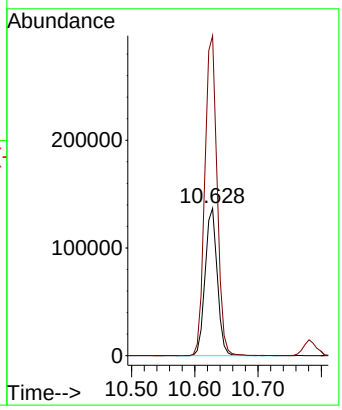


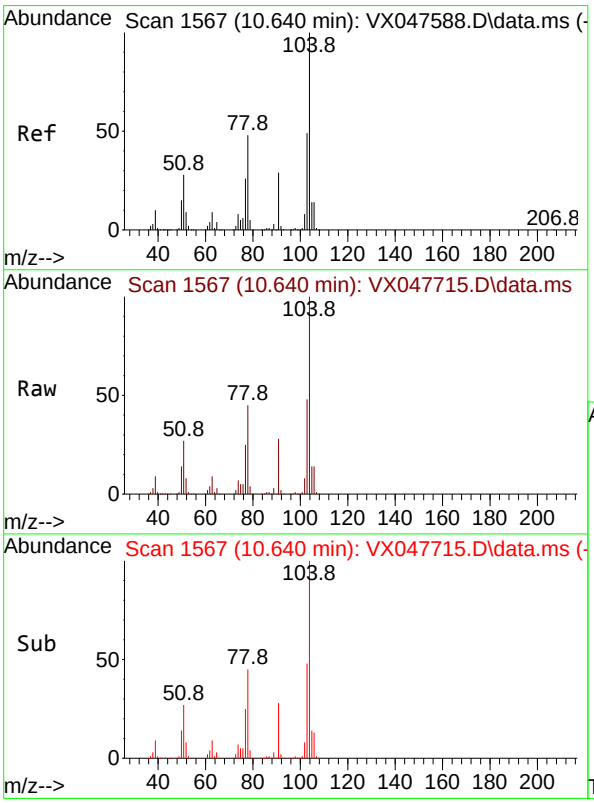
#69
o-Xylene
Concen: 53.793 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:106 Resp: 183279

Ion	Ratio	Lower	Upper
106	100		
91	219.9	111.1	333.4

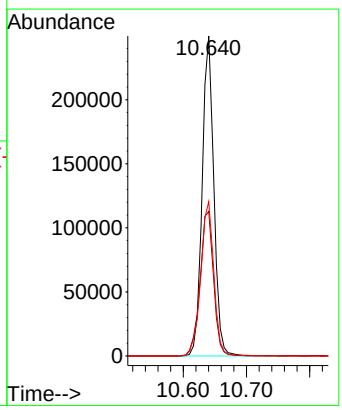


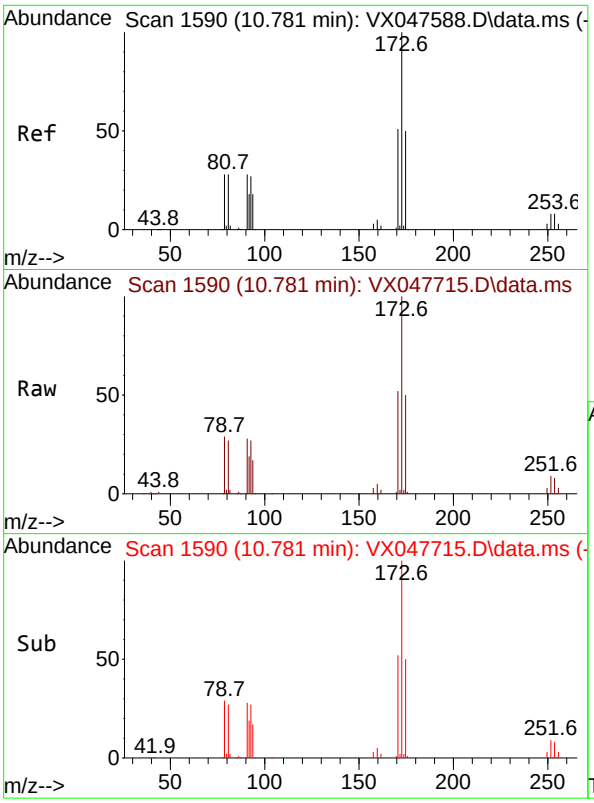


#70
Styrene
Concen: 53.747 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:104 Resp: 320866

Ion	Ratio	Lower	Upper
104	100		
78	52.5	43.1	64.7
103	54.1	43.1	64.7



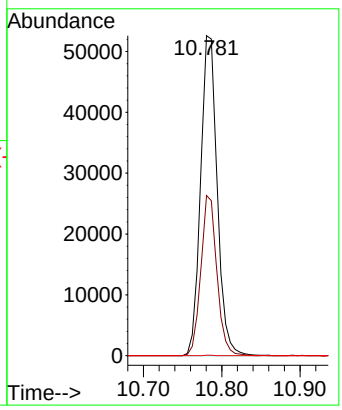


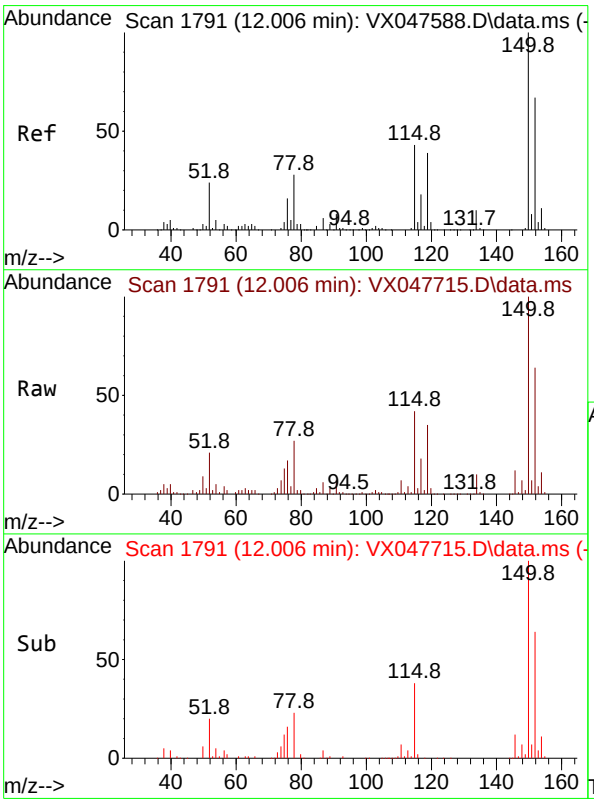
#71
Bromoform
Concen: 54.826 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:173 Resp: 77485

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.9	74.6
254	0.1	0.1	0.1

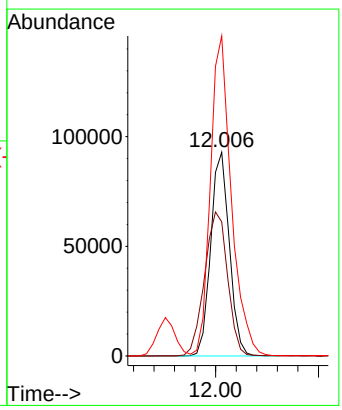


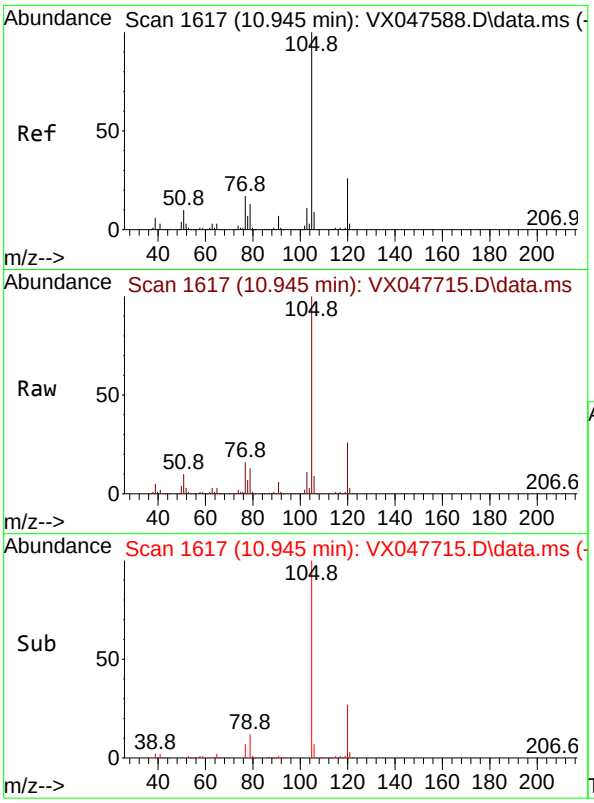


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:152 Resp: 116537

Ion	Ratio	Lower	Upper
152	100		
115	87.9	44.9	134.5
150	176.0	0.0	352.0



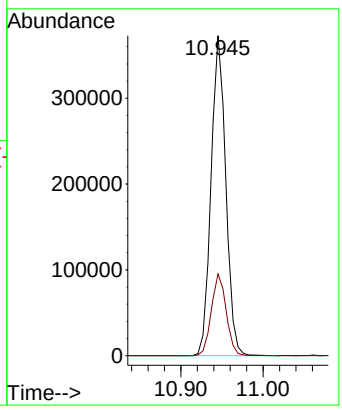


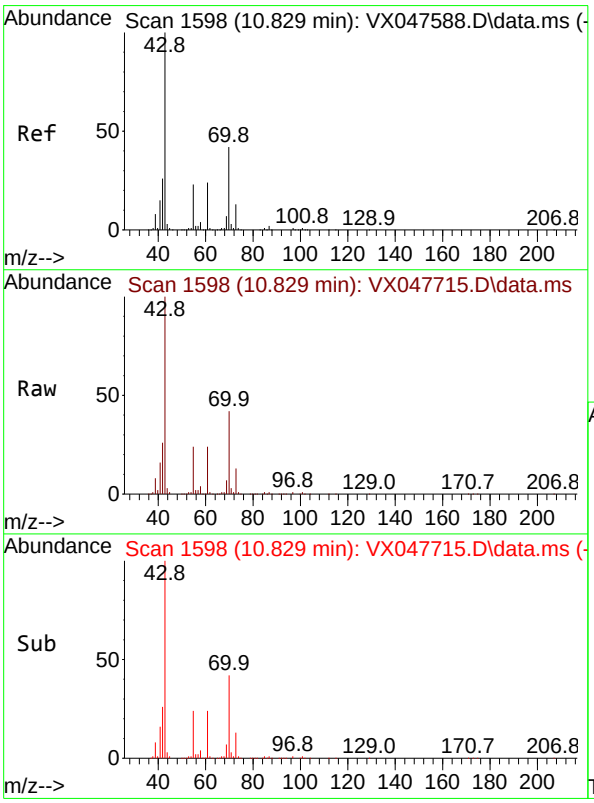
#73
Isopropylbenzene
Concen: 52.217 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:105 Resp: 462634

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.4

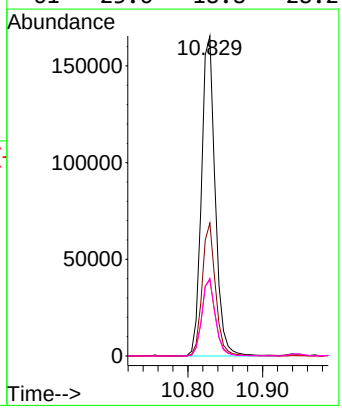


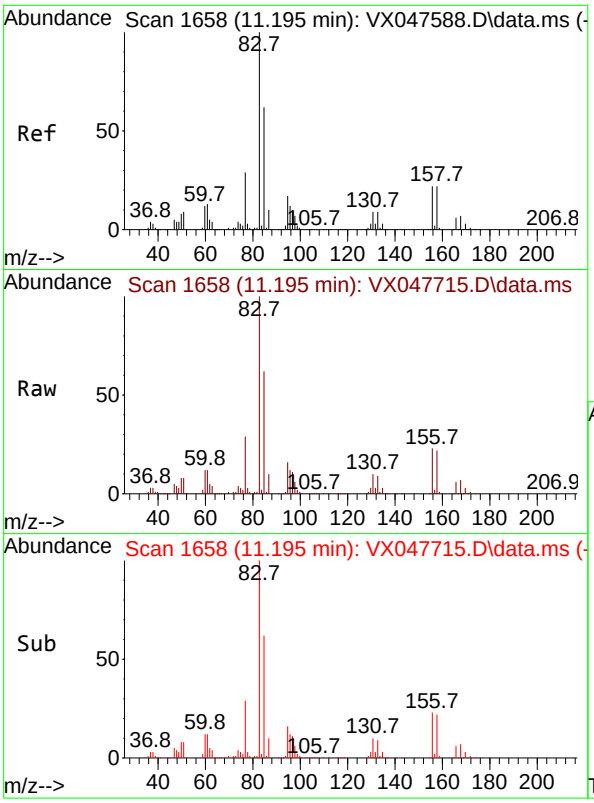


#74
N-amyl acetate
Concen: 52.202 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 43 Resp: 210910

Ion	Ratio	Lower	Upper
43	100		
70	40.5	32.0	48.0
55	24.0	18.9	28.3
61	23.6	18.8	28.2



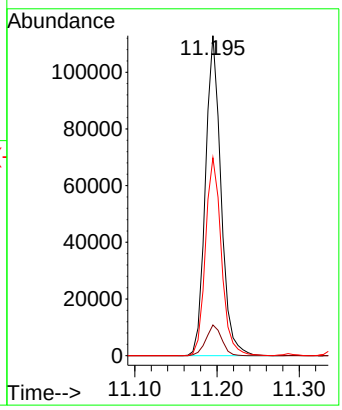


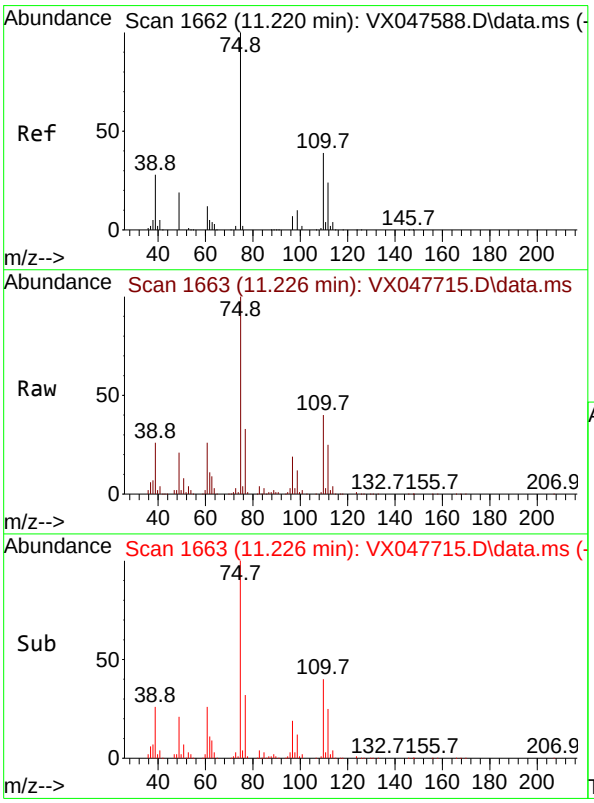
#75
1,1,2,2-Tetrachloroethane
Concen: 55.400 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 83 Resp: 148503

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	63.3	31.6	95.0

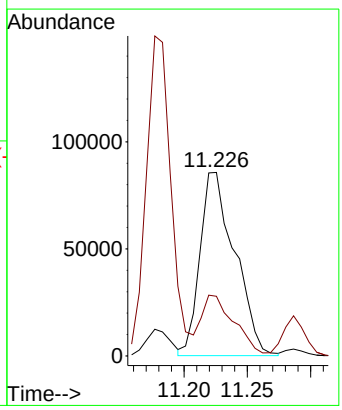


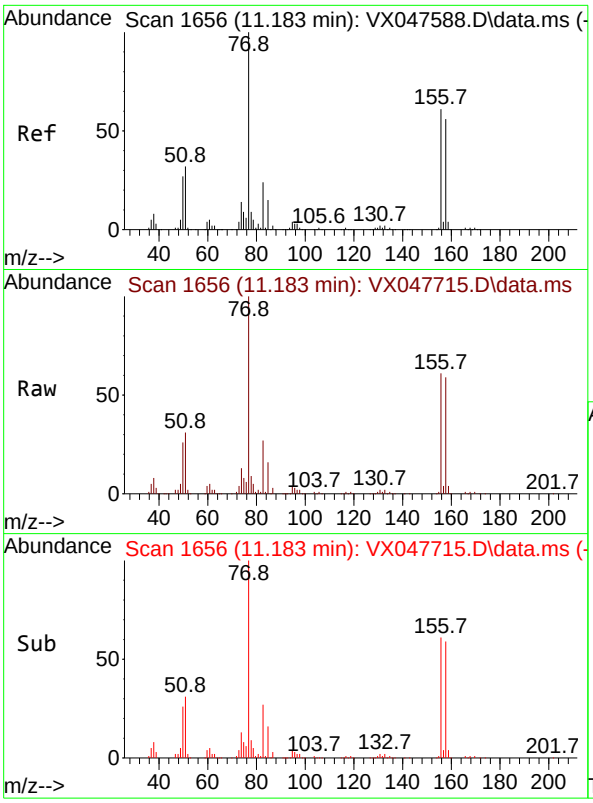


#76
1,2,3-Trichloropropane
Concen: 69.680 ug/l
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 75 Resp: 164411

Ion	Ratio	Lower	Upper
75	100		
77	30.7	18.8	56.4



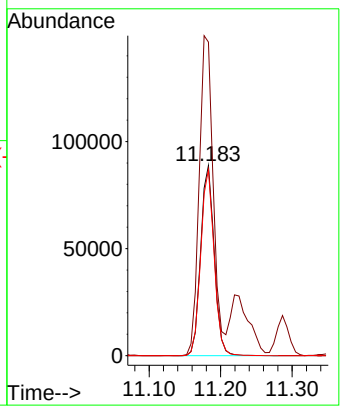


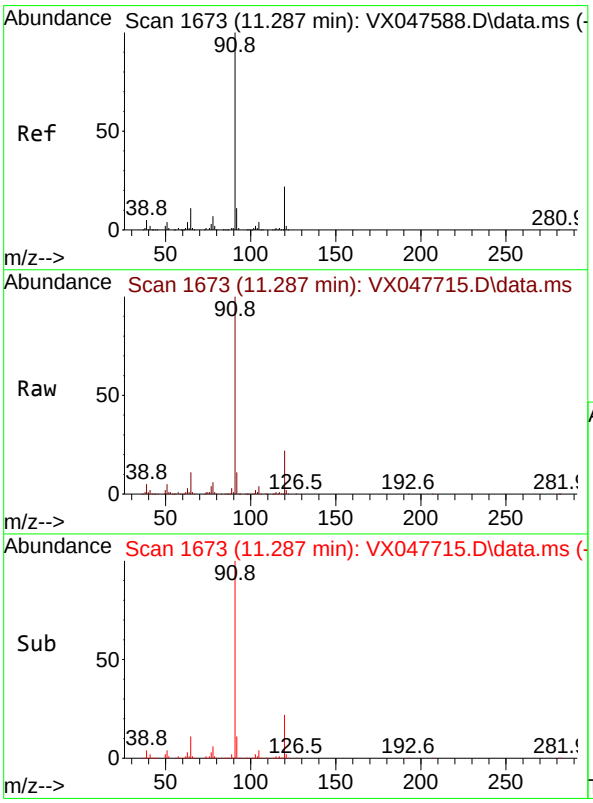
#77
Bromobenzene
Concen: 53.577 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:156 Resp: 116912

Ion	Ratio	Lower	Upper
156	100		
77	175.2	89.7	269.1
158	97.0	47.9	143.6

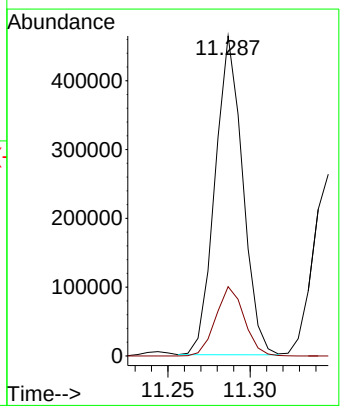


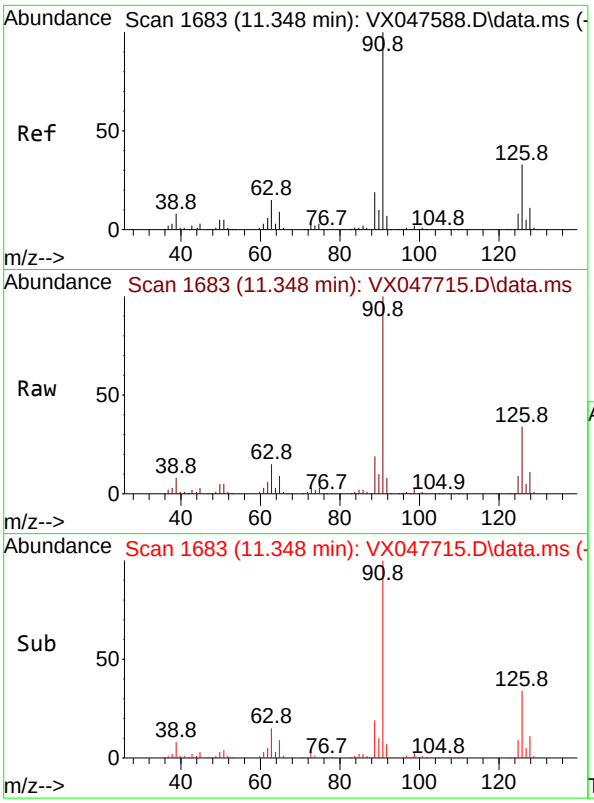


#78
n-propylbenzene
Concen: 51.826 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 91 Resp: 542797

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



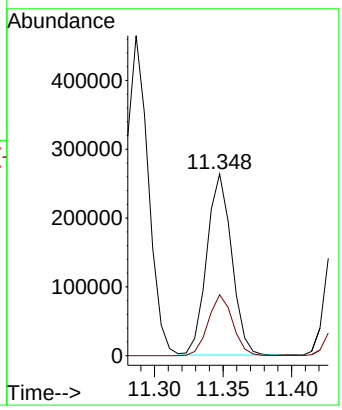


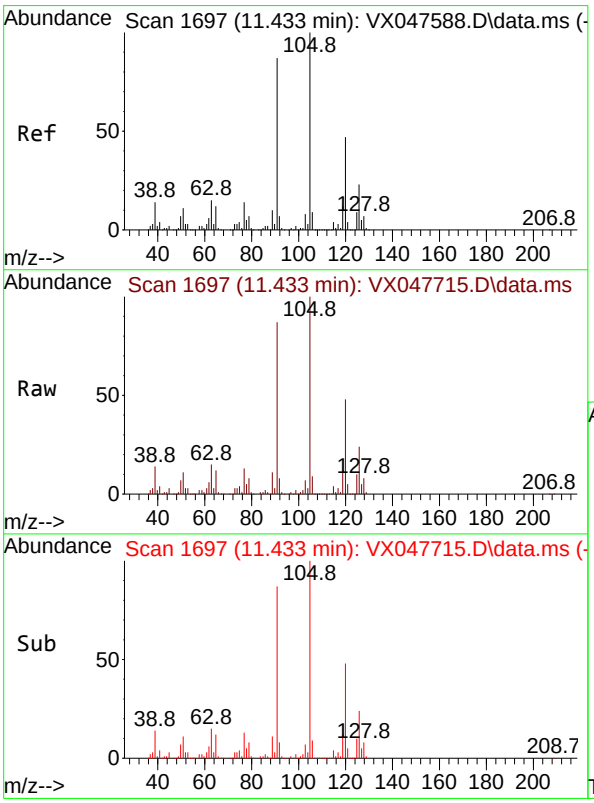
#79
2-Chlorotoluene
Concen: 51.805 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 91 Resp: 332315

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.1	48.3

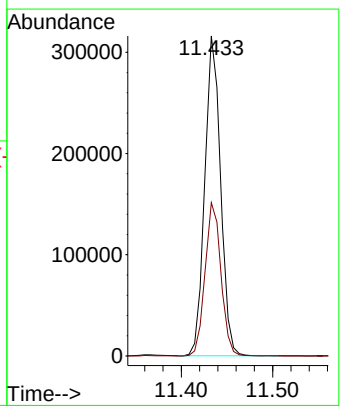


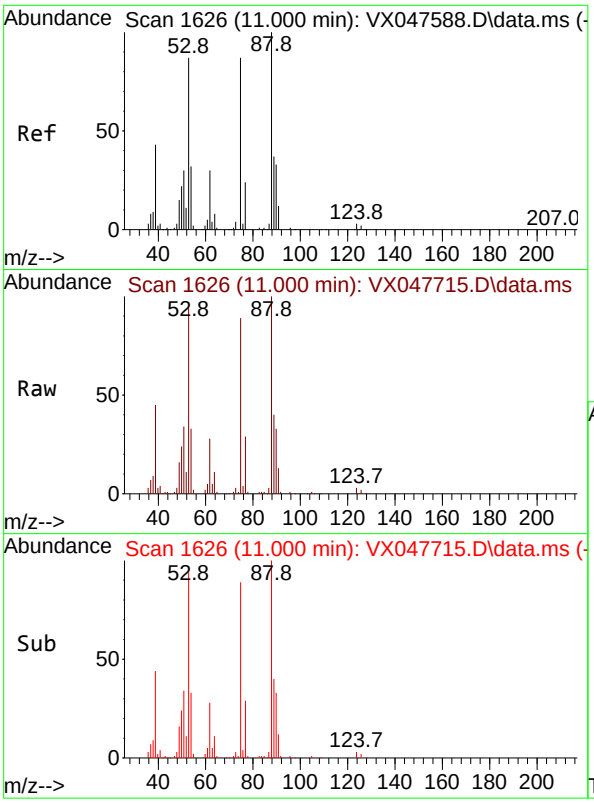


#80
1,3,5-Trimethylbenzene
Concen: 51.921 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:105 Resp: 377938

Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.6	70.8



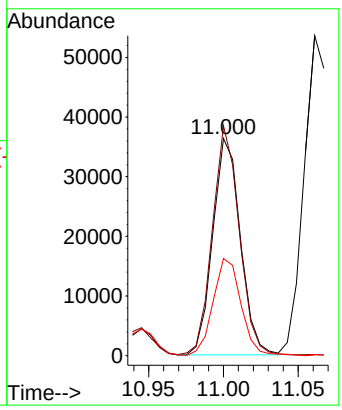


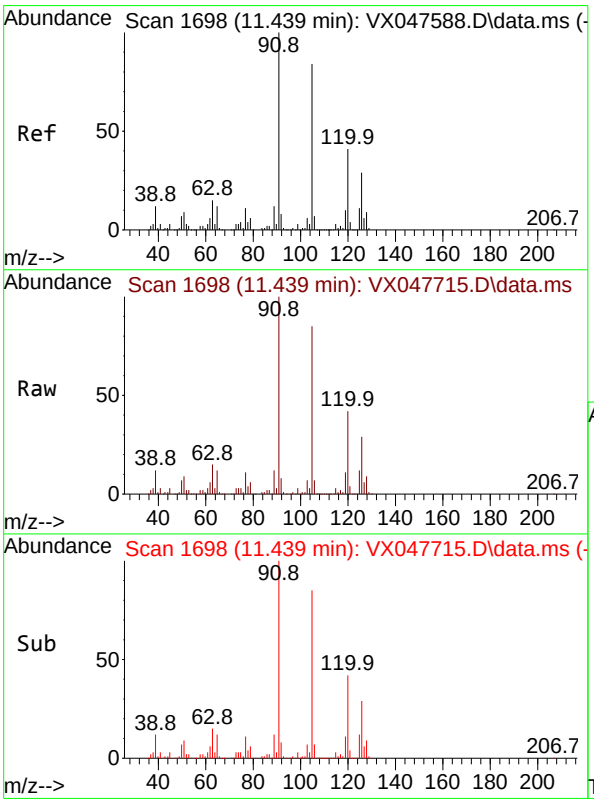
#81
trans-1,4-Dichloro-2-butene
Concen: 50.434 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 75 Resp: 46664

Ion	Ratio	Lower	Upper
75	100		
53	104.1	83.4	125.2
89	45.4	36.3	54.5

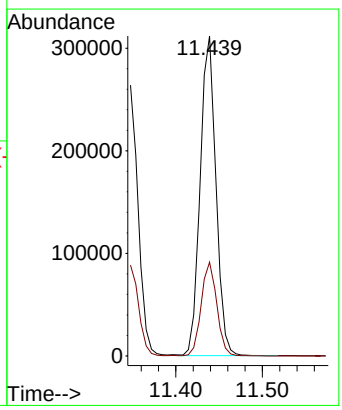


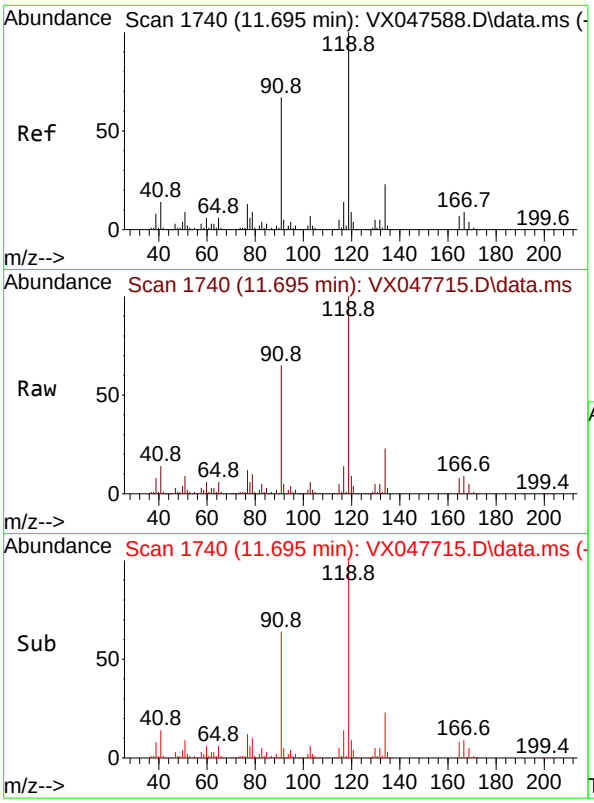


#82
4-Chlorotoluene
Concen: 51.951 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 91 Resp: 393591

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6



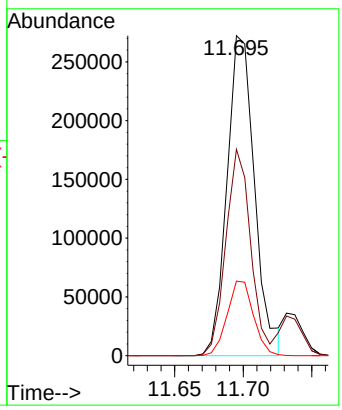


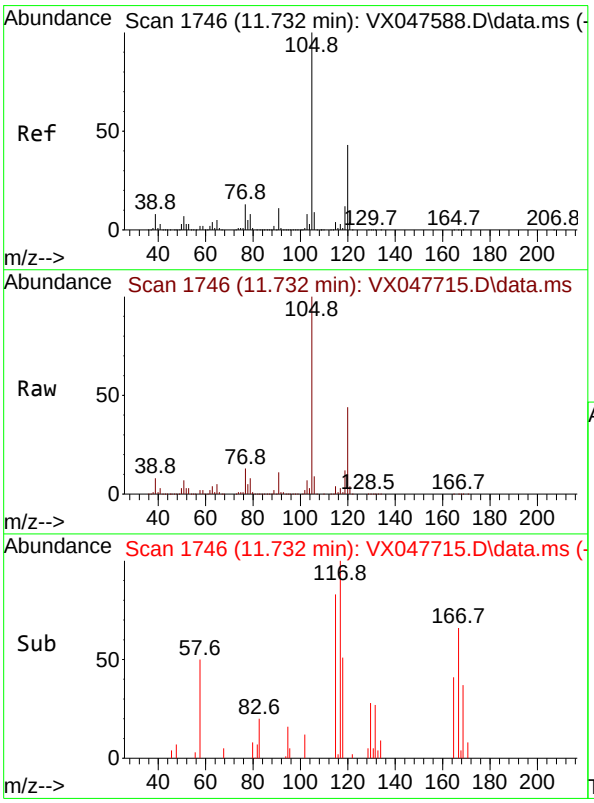
#83
tert-Butylbenzene
Concen: 51.420 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:119 Resp: 383158

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.6	88.8
134	22.2	11.0	33.0

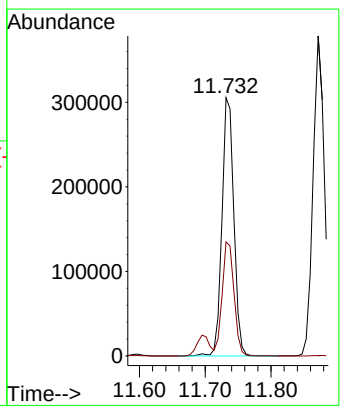


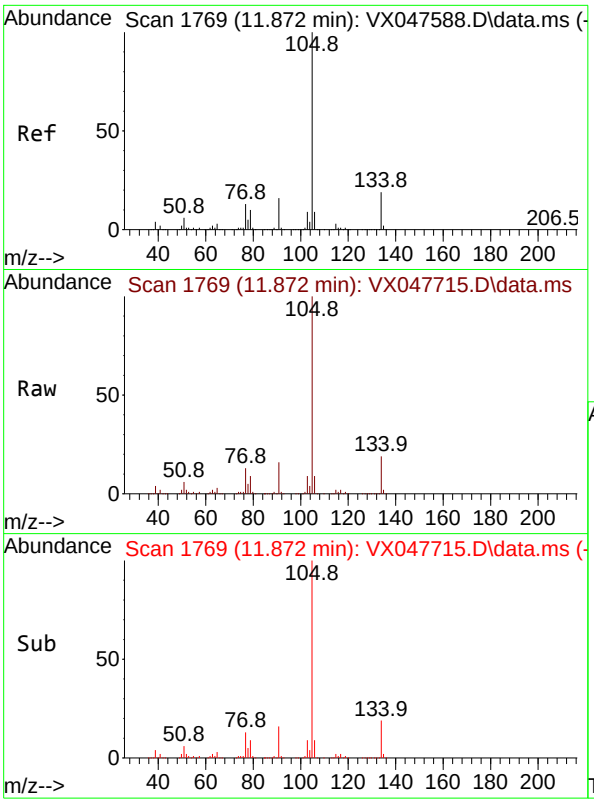


#84
1,2,4-Trimethylbenzene
Concen: 52.035 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:105 Resp: 384015

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.1



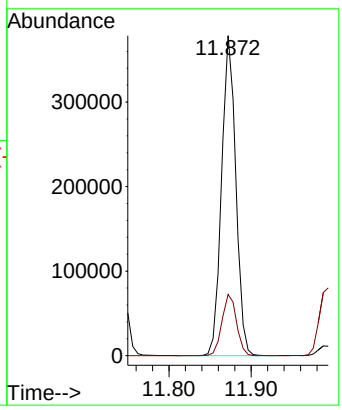


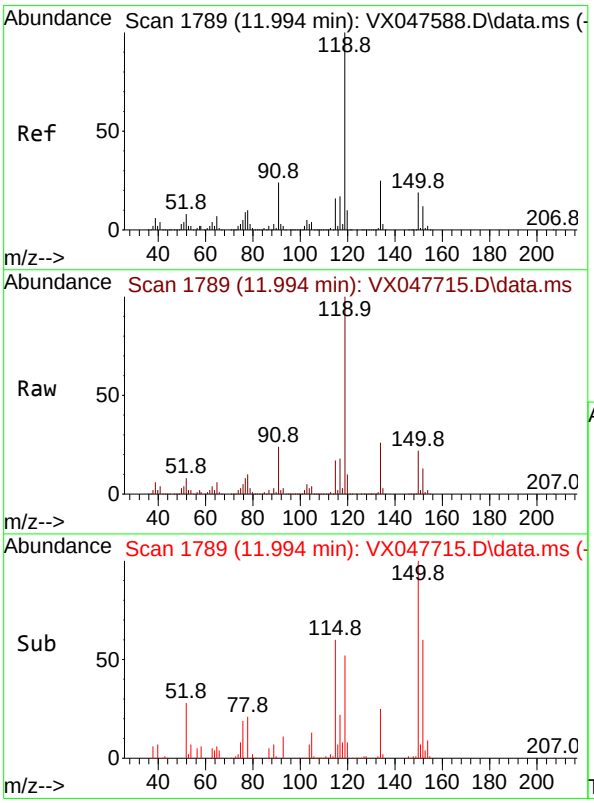
#85
sec-Butylbenzene
Concen: 51.437 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:105 Resp: 455269

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5

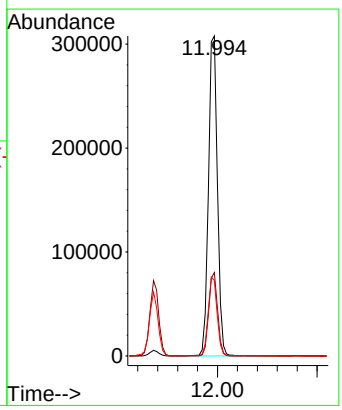


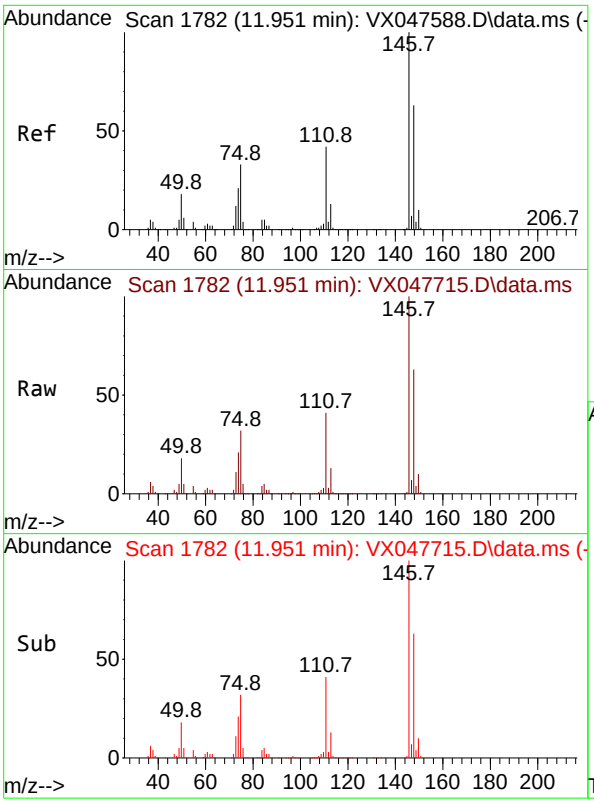


#86
p-Isopropyltoluene
Concen: 51.091 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:119 Resp: 382834

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	24.6	12.6	37.6



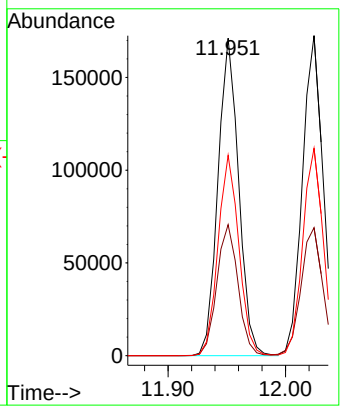


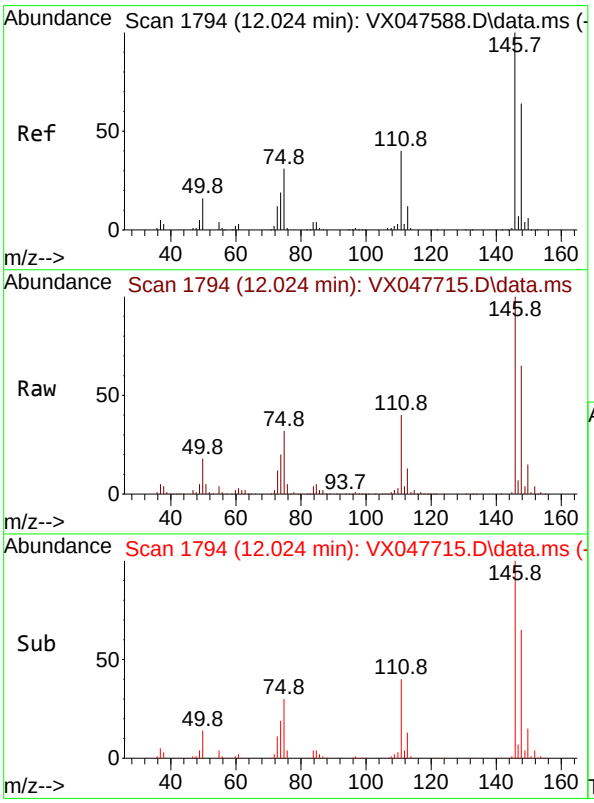
#87
1,3-Dichlorobenzene
Concen: 51.804 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:146 Resp: 209966

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.5	64.5
148	63.6	32.0	96.0

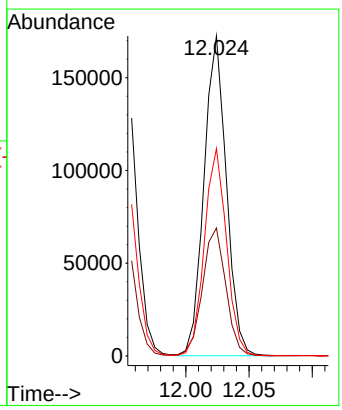


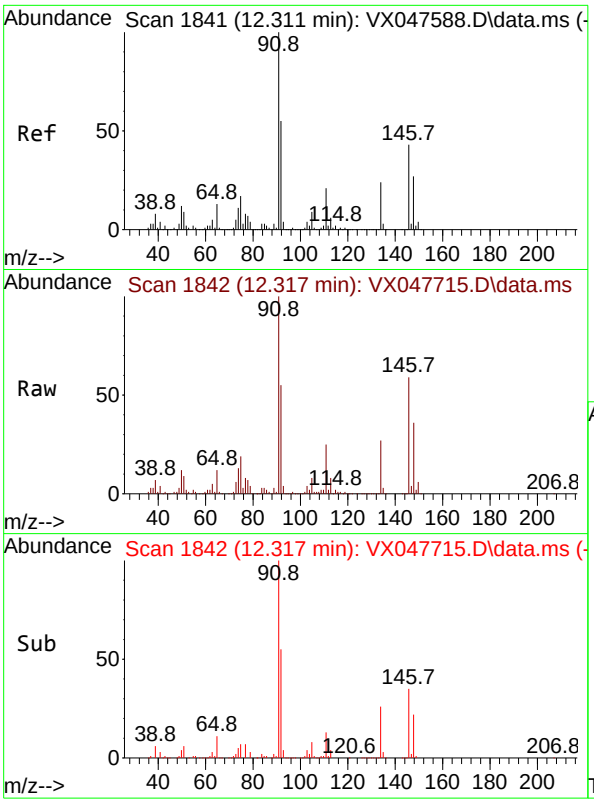


#88
1,4-Dichlorobenzene
Concen: 51.003 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:146 Resp: 212167

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.8	62.4
148	64.2	31.7	95.1



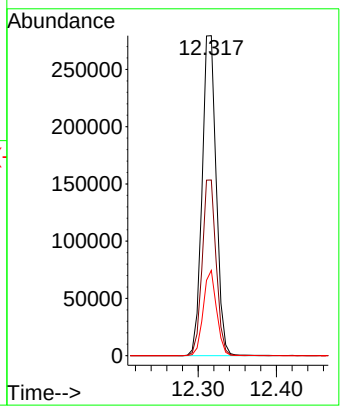


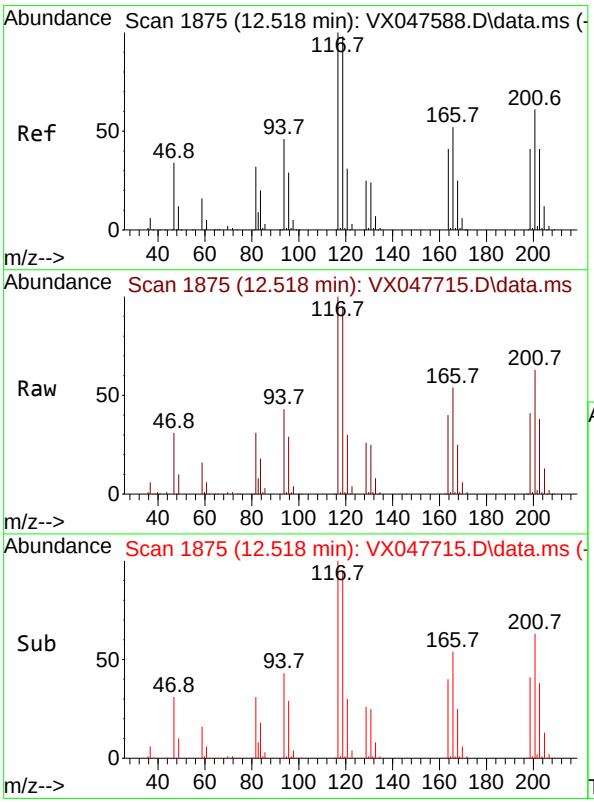
#89
n-Butylbenzene
Concen: 50.321 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion: 91 Resp: 348901

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.2	12.6	37.8

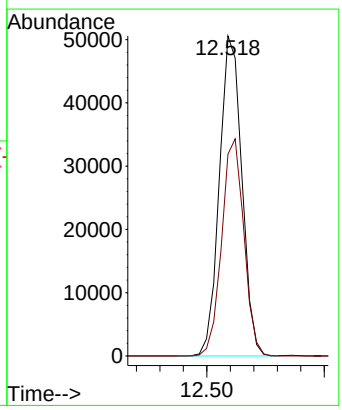


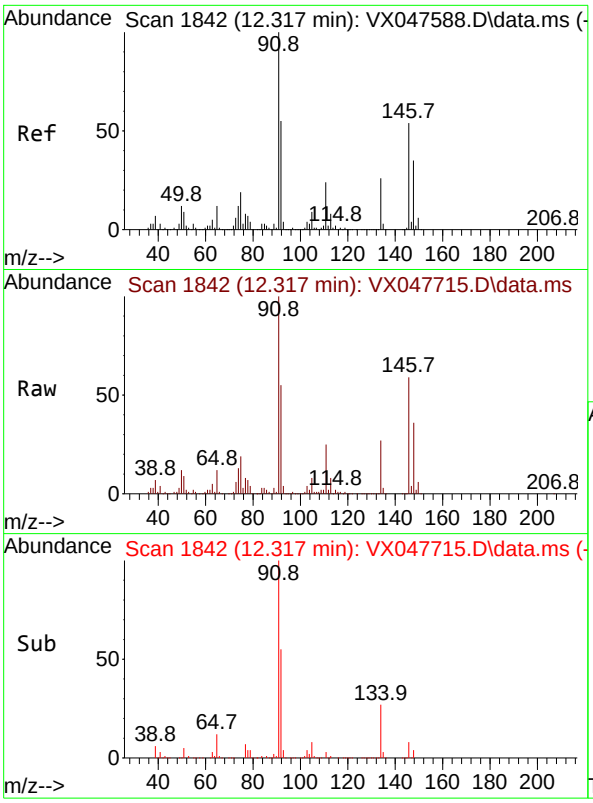


#90
Hexachloroethane
Concen: 50.993 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:117 Resp: 67085

Ion	Ratio	Lower	Upper
117	100		
201	67.1	34.2	102.5



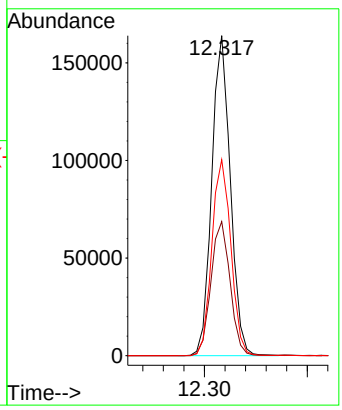


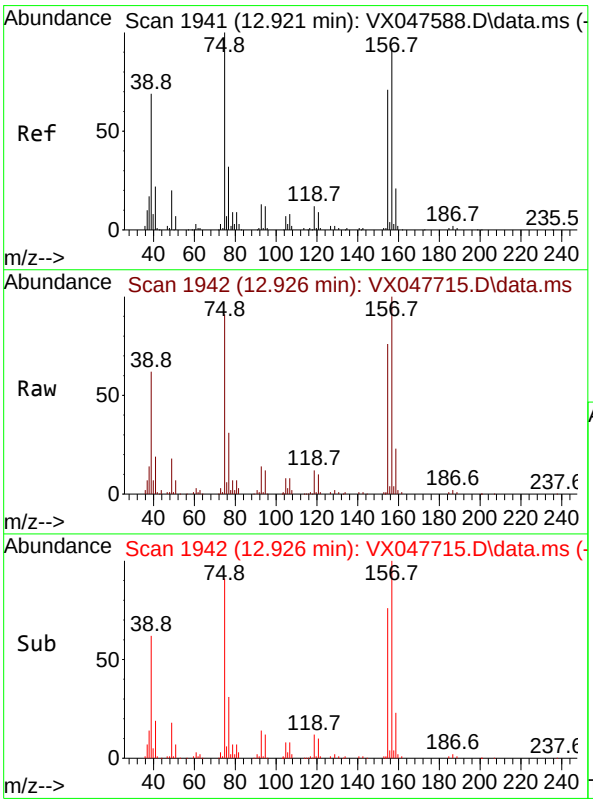
#91
1,2-Dichlorobenzene
Concen: 53.080 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:146 Resp: 204964

Ion	Ratio	Lower	Upper
146	100		
111	43.1	22.2	66.6
148	62.8	31.8	95.4

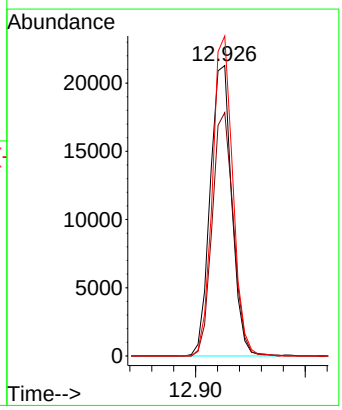


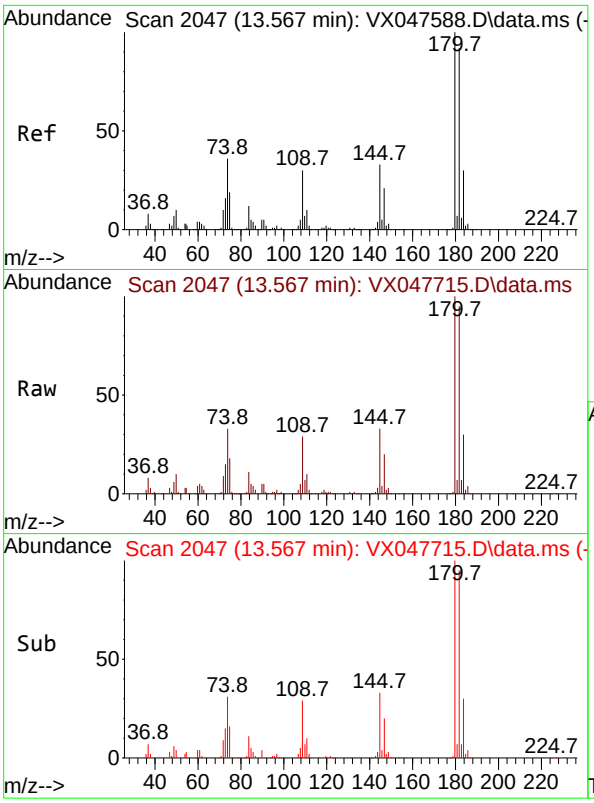


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.660 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion: 75 Resp: 29122

Ion	Ratio	Lower	Upper
75	100		
155	82.3	37.7	113.1
157	104.0	49.8	149.4



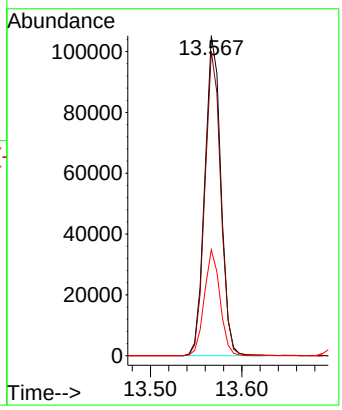


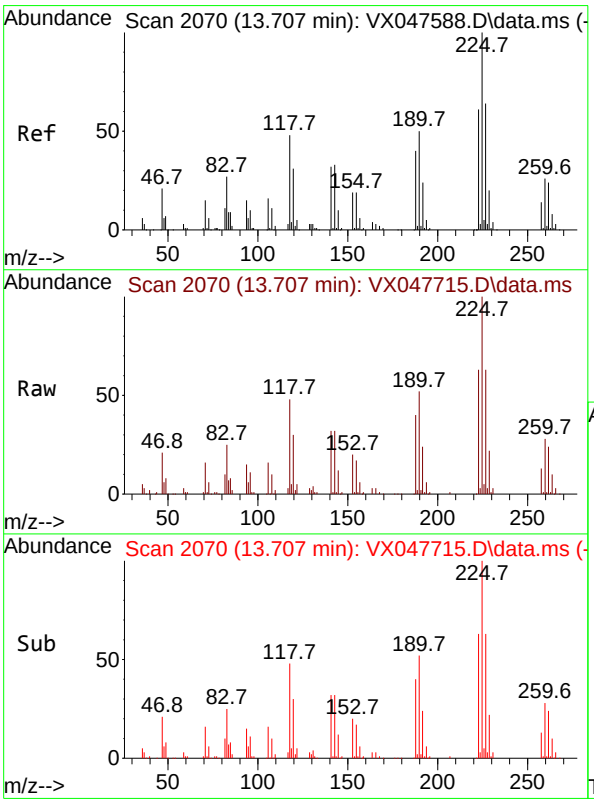
#93
1,2,4-Trichlorobenzene
Concen: 50.982 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:180 Resp: 127943

Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.6	139.8
145	32.2	16.4	49.1

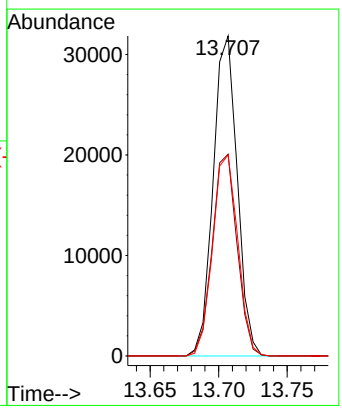


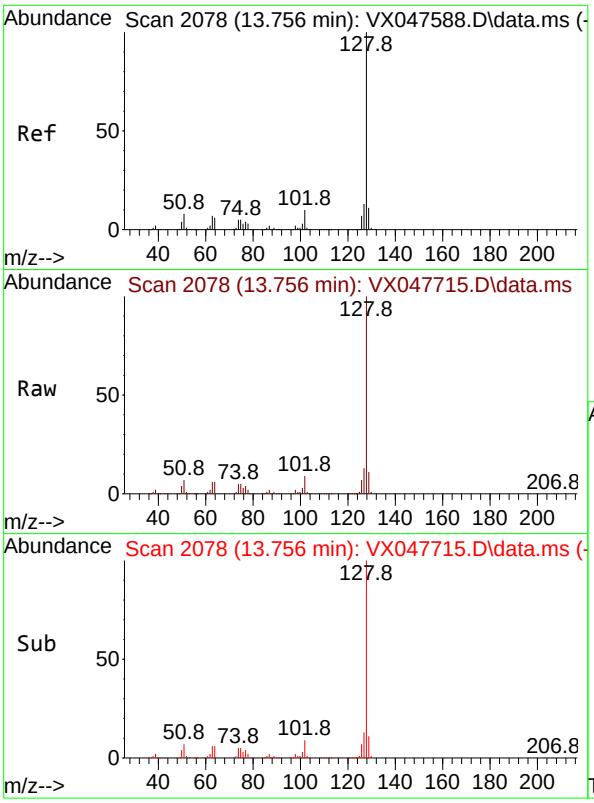


#94
Hexachlorobutadiene
Concen: 45.547 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:225 Resp: 38825

Ion	Ratio	Lower	Upper
225	100		
223	65.1	31.7	95.1
227	65.7	32.0	96.0



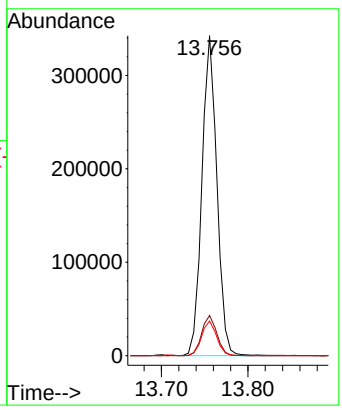


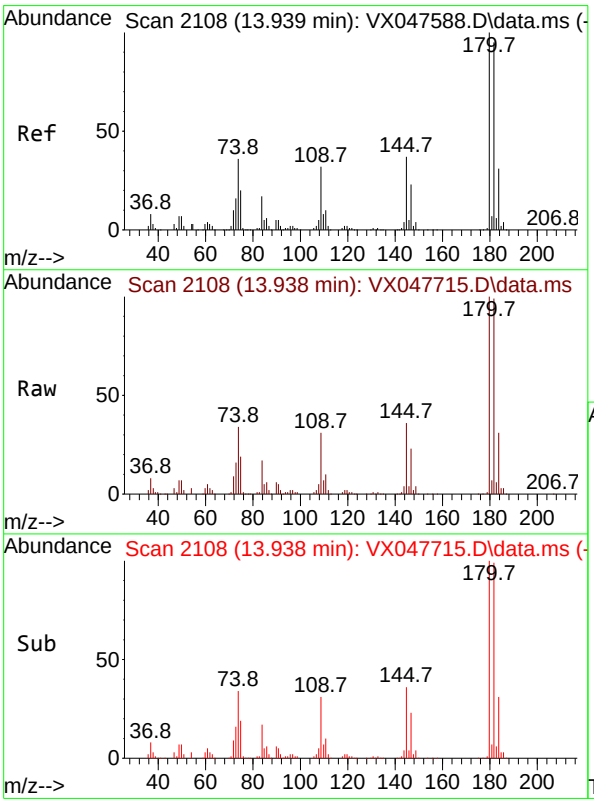
#95
Naphthalene
Concen: 53.743 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MS

Tgt Ion:128 Resp: 410695

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2

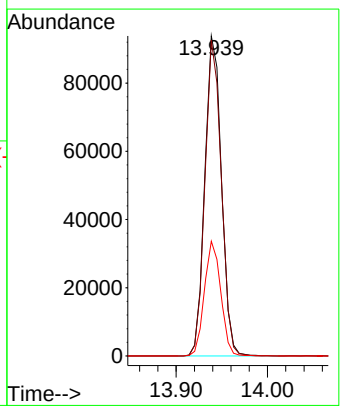




#96
1,2,3-Trichlorobenzene
Concen: 50.629 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047715.D
Acq: 22 Sep 2025 18:58

Tgt Ion:180 Resp: 118190

Ion	Ratio	Lower	Upper
180	100		
182	97.2	47.6	142.8
145	35.3	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047716.D
Acq On : 22 Sep 2025 19:19
Operator : JC/MD
Sample : Q3097-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Quant Time: Sep 23 01:42:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	151448	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	285571	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	256927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	125295	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	134014	55.592	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.180%			
35) Dibromofluoromethane	5.373	113	101518	53.007	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.020%			
50) Toluene-d8	8.635	98	351935	53.107	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.220%			
62) 4-Bromofluorobenzene	11.061	95	135304	53.798	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	87784	55.975	ug/l	96
3) Chloromethane	1.301	50	112252	54.461	ug/l	97
4) Vinyl Chloride	1.380	62	106654	52.861	ug/l	100
5) Bromomethane	1.618	94	70603	55.184	ug/l	99
6) Chloroethane	1.697	64	69739	51.716	ug/l	100
7) Trichlorofluoromethane	1.898	101	148942	49.718	ug/l	99
8) Diethyl Ether	2.136	74	63556	51.863	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.337	101	88962	50.786	ug/l	99
10) Methyl Iodide	2.459	142	139082	50.909	ug/l	100
11) Tert butyl alcohol	2.947	59	70300	261.840	ug/l	98
12) 1,1-Dichloroethene	2.325	96	91530	50.868	ug/l	96
13) Acrolein	2.239	56	71244	287.956	ug/l	98
14) Allyl chloride	2.666	41	180017	48.482	ug/l	98
15) Acrylonitrile	3.056	53	279714	281.266	ug/l	98
16) Acetone	2.373	43	219579	209.489	ug/l	100
17) Carbon Disulfide	2.520	76	259123	52.604	ug/l	98
18) Methyl Acetate	2.703	43	119477	51.219	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	340150	51.785	ug/l	99
20) Methylene Chloride	2.788	84	114006	51.384	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	100087	51.665	ug/l	97
22) Diisopropyl ether	3.751	45	370654	51.509	ug/l #	84
23) Vinyl Acetate	3.715	43	1452069	252.128	ug/l	100
24) 1,1-Dichloroethane	3.605	63	195788	51.190	ug/l	99
25) 2-Butanone	4.544	43	338514	258.910	ug/l	98
26) 2,2-Dichloropropane	4.471	77	131738	41.436	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	123362	51.997	ug/l	97
28) Bromochloromethane	4.885	49	88172	52.806	ug/l	100
29) Tetrahydrofuran	4.989	42	214581	272.818	ug/l	99
30) Chloroform	5.086	83	200434	51.859	ug/l	99
31) Cyclohexane	5.464	56	150653	47.293	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	165340	50.434	ug/l	99
36) 1,1-Dichloropropene	5.684	75	128843	46.039	ug/l	98
37) Ethyl Acetate	4.702	43	139040	46.402	ug/l	100
38) Carbon Tetrachloride	5.666	117	138495	45.547	ug/l	99
39) Methylcyclohexane	7.367	83	140889	44.350	ug/l	98
40) Benzene	6.025	78	418727	49.262	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047716.D
Acq On : 22 Sep 2025 19:19
Operator : JC/MD
Sample : Q3097-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Quant Time: Sep 23 01:42:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	81912	52.951	ug/l		97
42) 1,2-Dichloroethane	6.074	62	154372	47.733	ug/l		99
43) Isopropyl Acetate	6.324	43	238509	48.533	ug/l		99
44) Trichloroethene	7.110	130	649824	316.221	ug/l		97
45) 1,2-Dichloropropane	7.415	63	106503	48.933	ug/l		98
46) Dibromomethane	7.568	93	76554	48.334	ug/l		95
47) Bromodichloromethane	7.805	83	158068	48.363	ug/l		98
48) Methyl methacrylate	7.677	41	120316	49.151	ug/l		97
49) 1,4-Dioxane	7.647	88	31574	1276.303	ug/l		99
51) 4-Methyl-2-Pentanone	8.561	43	713498	261.859	ug/l		100
52) Toluene	8.708	92	252290	48.176	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	160090	48.021	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	170516	47.854	ug/l		97
55) 1,1,2-Trichloroethane	9.134	97	102255	50.639	ug/l		97
56) Ethyl methacrylate	9.104	69	162921	51.375	ug/l		98
57) 1,3-Dichloropropane	9.293	76	177427	51.150	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.153	63	96	7.956	ug/l	#	47
59) 2-Hexanone	9.415	43	496279	253.602	ug/l		99
60) Dibromochloromethane	9.506	129	118126	50.771	ug/l		99
61) 1,2-Dibromoethane	9.592	107	108183	52.599	ug/l		100
64) Tetrachloroethene	9.262	164	78549	46.898	ug/l		95
65) Chlorobenzene	10.061	112	284028	48.661	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	97079	48.198	ug/l		98
67) Ethyl Benzene	10.177	91	484782	48.136	ug/l		99
68) m/p-Xylenes	10.287	106	364701	97.291	ug/l		98
69) o-Xylene	10.628	106	175962	48.532	ug/l		100
70) Styrene	10.640	104	311170	48.980	ug/l		98
71) Bromoform	10.787	173	75628	50.286	ug/l		98
73) Isopropylbenzene	10.945	105	440376	46.230	ug/l		99
74) N-amyl acetate	10.829	43	201619	46.415	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	144289	50.065	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	160418	63.236	ug/l		88
77) Bromobenzene	11.183	156	111648	47.588	ug/l		99
78) n-propylbenzene	11.287	91	516715	45.887	ug/l		99
79) 2-Chlorotoluene	11.347	91	322164	46.712	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	367456	46.952	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.000	75	45752	45.992	ug/l		98
82) 4-Chlorotoluene	11.439	91	380416	46.702	ug/l		98
83) tert-Butylbenzene	11.695	119	372073	46.442	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	371720	46.849	ug/l		100
85) sec-Butylbenzene	11.872	105	434981	45.710	ug/l		100
86) p-Isopropyltoluene	11.994	119	365960	45.425	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	203823	46.773	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	209139	46.761	ug/l		99
89) n-Butylbenzene	12.317	91	336544	45.146	ug/l		98
90) Hexachloroethane	12.518	117	64746	45.775	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	198212	47.743	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	28891	49.514	ug/l		97
93) 1,2,4-Trichlorobenzene	13.567	180	124512	46.147	ug/l		99
94) Hexachlorobutadiene	13.707	225	38572	42.087	ug/l		97
95) Naphthalene	13.756	128	406725	49.503	ug/l		99
96) 1,2,3-Trichlorobenzene	13.938	180	116912	46.580	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047716.D
Acq On : 22 Sep 2025 19:19
Operator : JC/MD
Sample : Q3097-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Quant Time: Sep 23 01:42:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

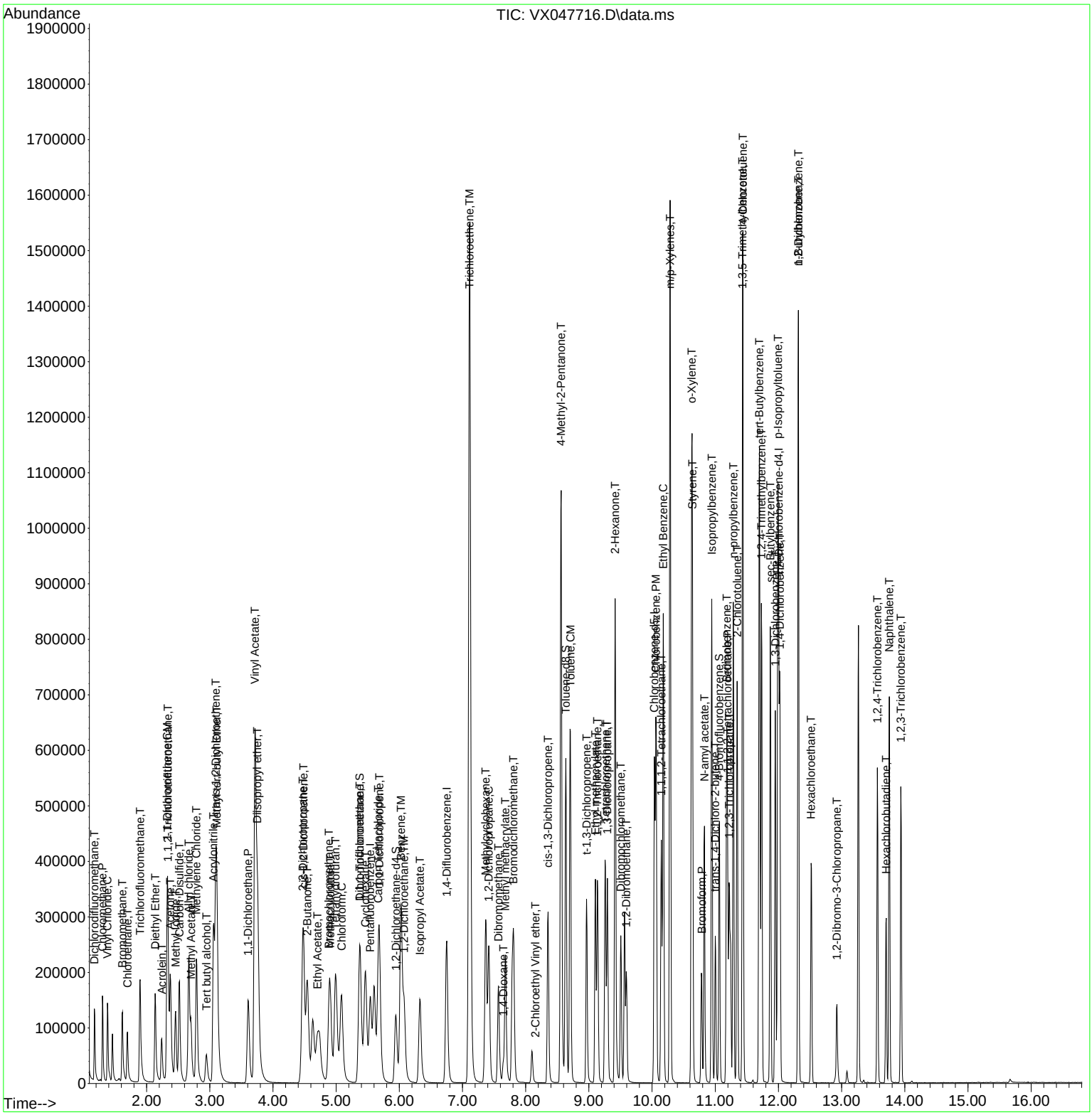
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

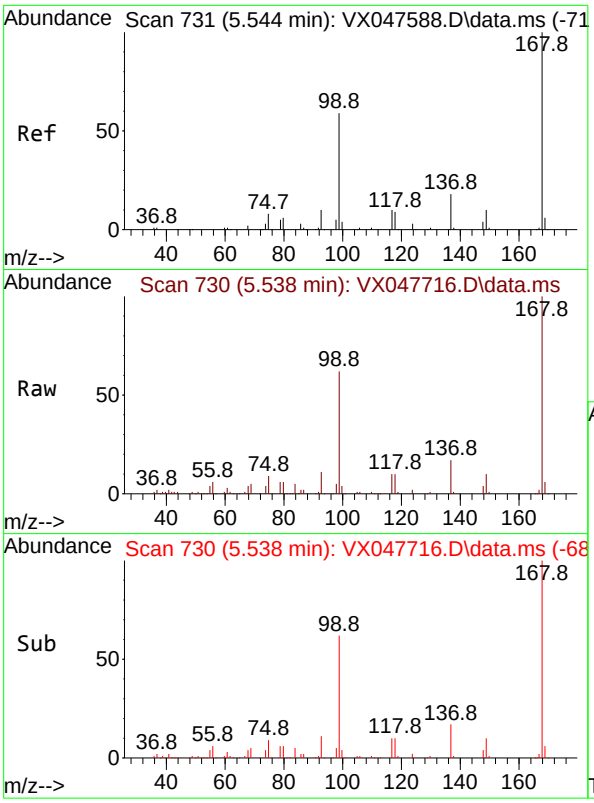
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047716.D
Acq On : 22 Sep 2025 19:19
Operator : JC/MD
Sample : Q3097-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Quant Time: Sep 23 01:42:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



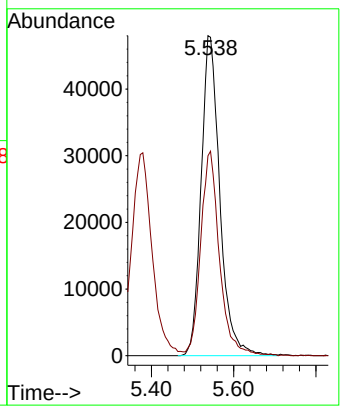


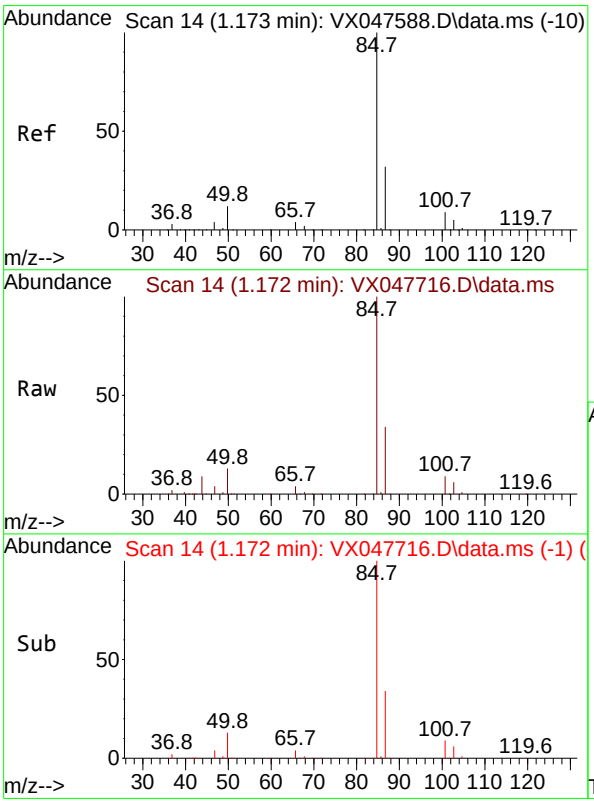
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:168 Resp: 151448

Ion	Ratio	Lower	Upper
168	100		
99	62.5	48.8	73.2

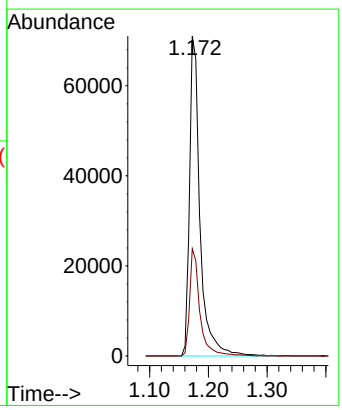


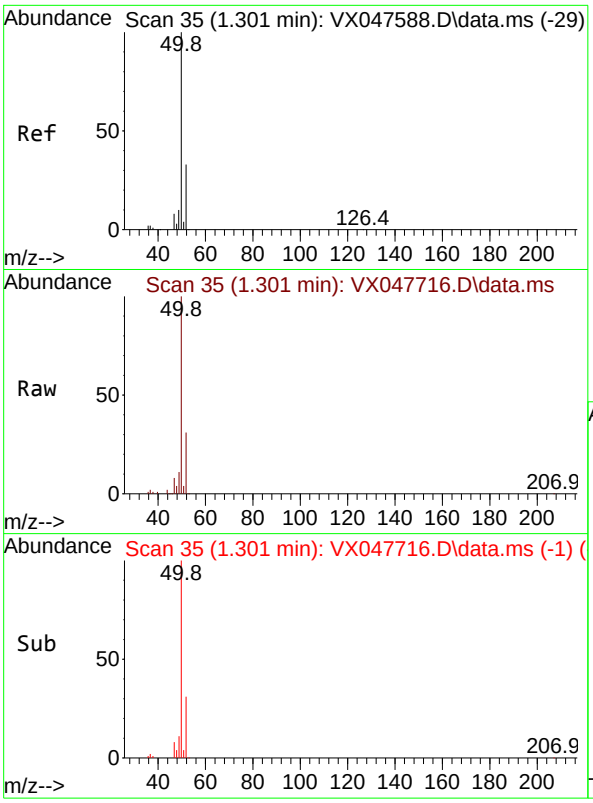


#2
Dichlorodifluoromethane
Concen: 55.975 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 85 Resp: 87784

Ion	Ratio	Lower	Upper
85	100		
87	33.5	15.8	47.3



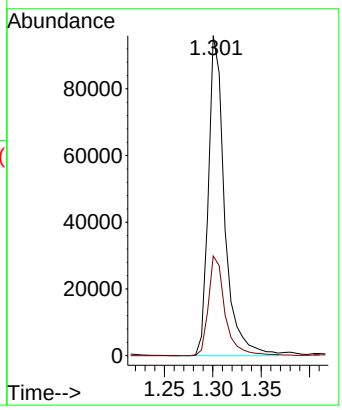


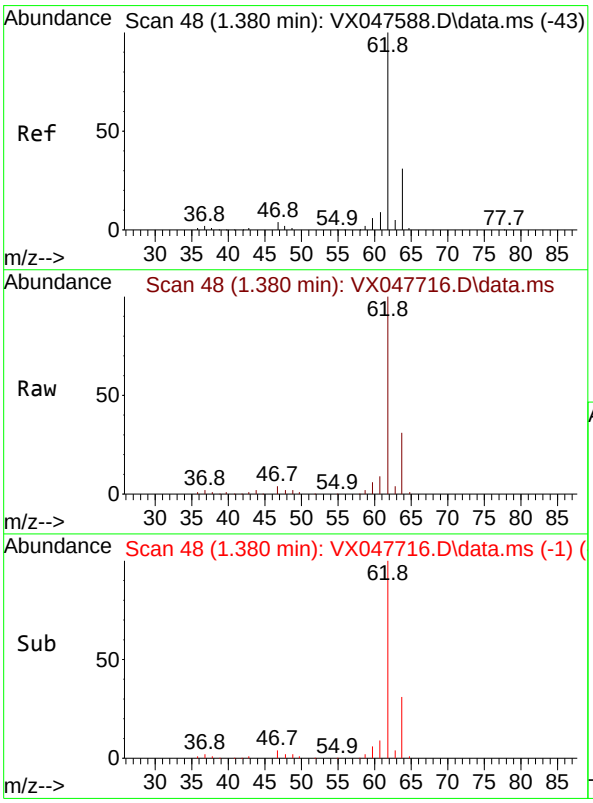
#3
Chloromethane
Concen: 54.461 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 50 Resp: 112252

Ion	Ratio	Lower	Upper
50	100		
52	31.2	26.1	39.1

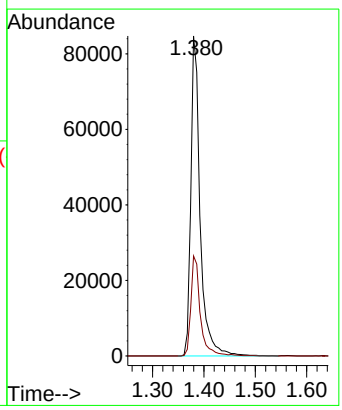


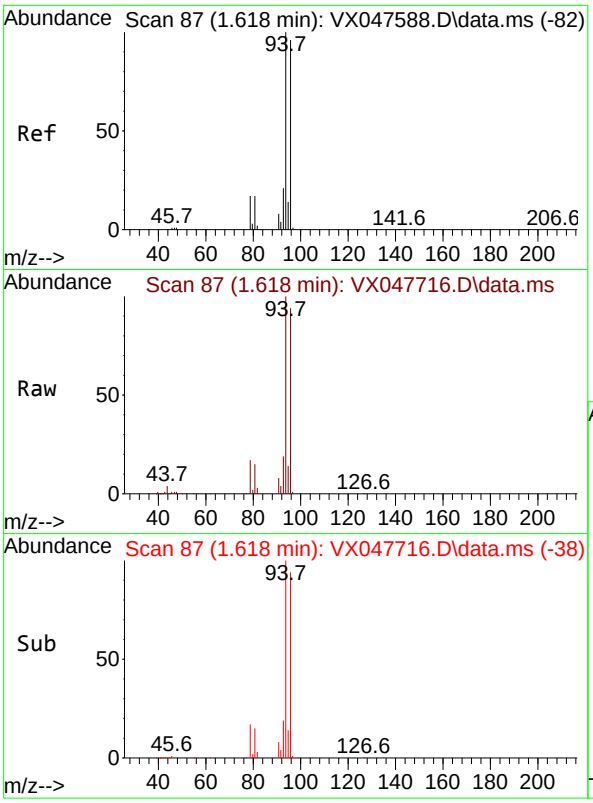


#4
Vinyl Chloride
Concen: 52.861 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 62 Resp: 106654

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.9	37.3



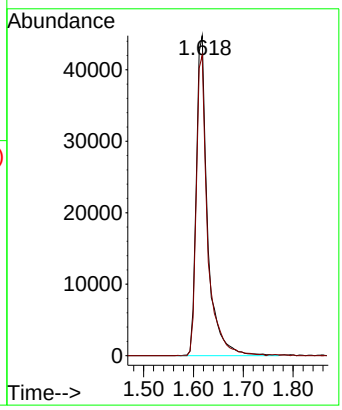


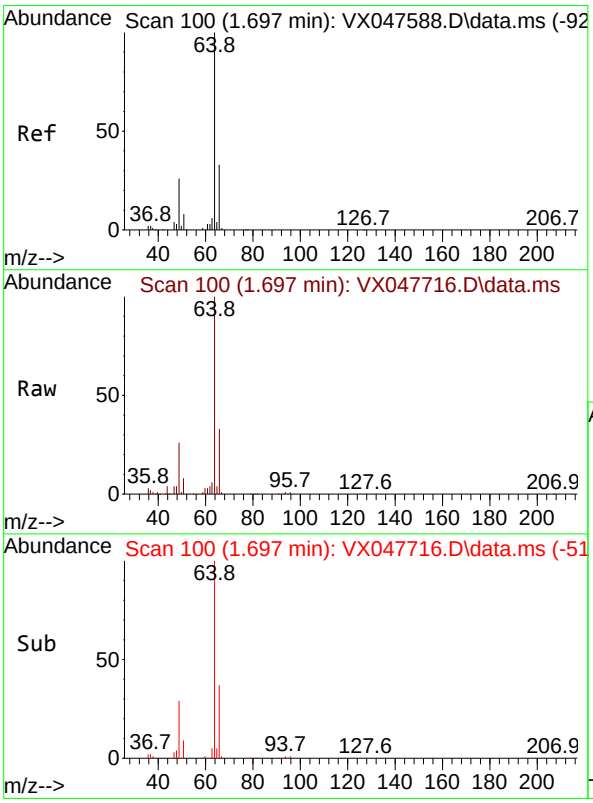
#5
Bromomethane
Concen: 55.184 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 94 Resp: 70603

Ion	Ratio	Lower	Upper
94	100		
96	94.8	76.6	115.0

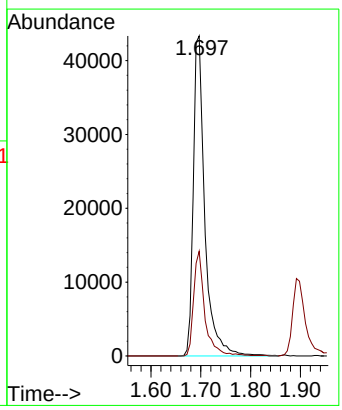


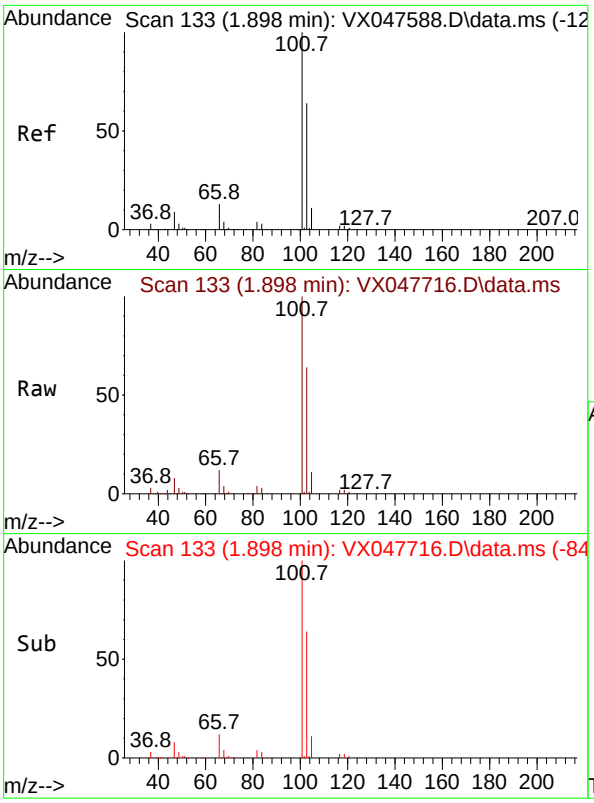


#6
Chloroethane
Concen: 51.716 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 64 Resp: 69739

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.1	39.1



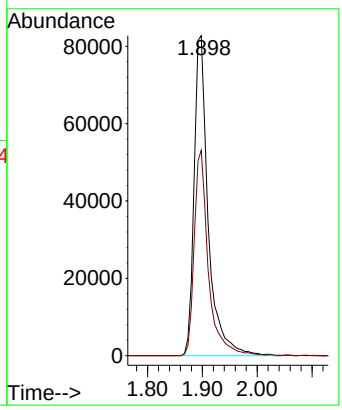


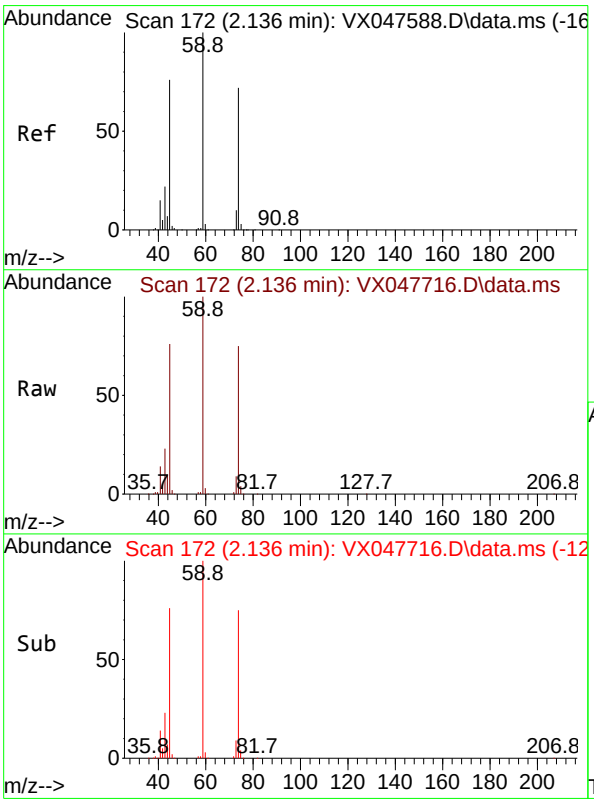
#7
Trichlorofluoromethane
Concen: 49.718 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:101 Resp: 148942

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.4	77.2

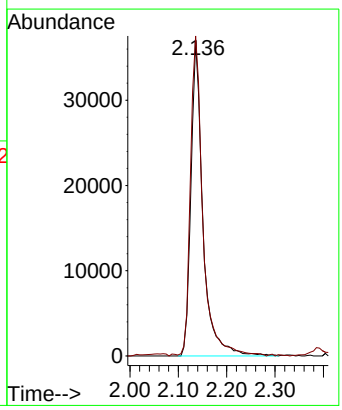


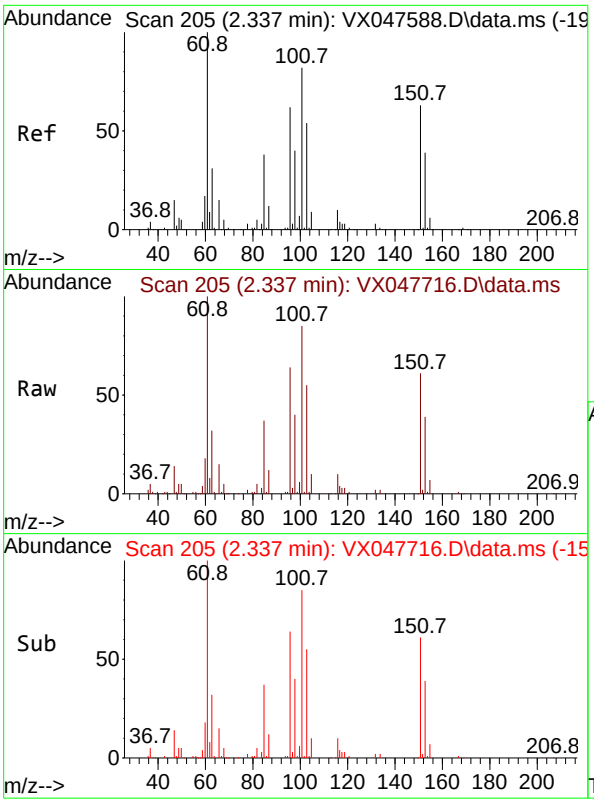


#8
Diethyl Ether
Concen: 51.863 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 74 Resp: 63556

Ion	Ratio	Lower	Upper
74	100		
45	105.8	52.3	156.8



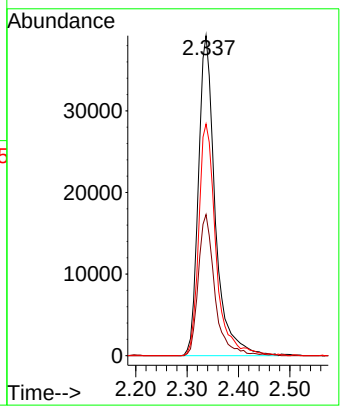


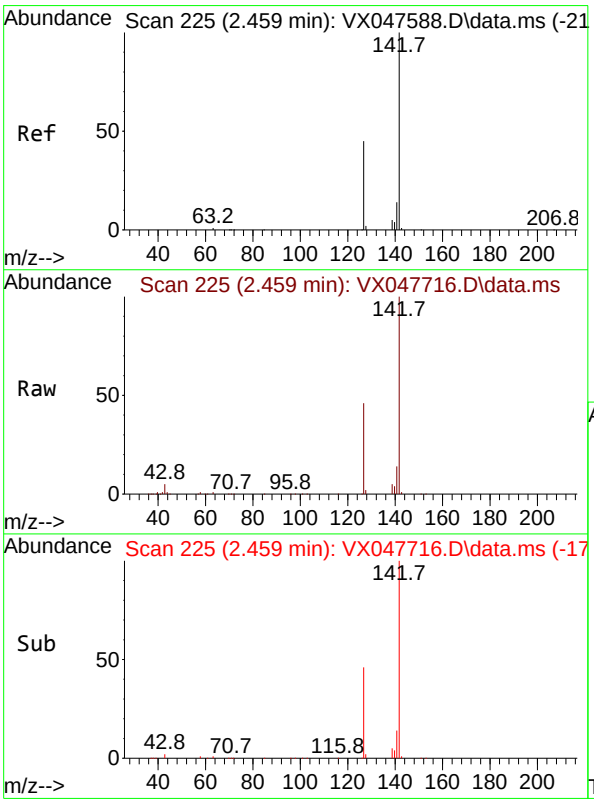
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.786 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:101 Resp: 88962

Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	74.3	59.4	89.0

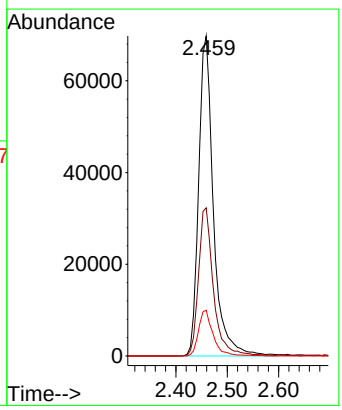


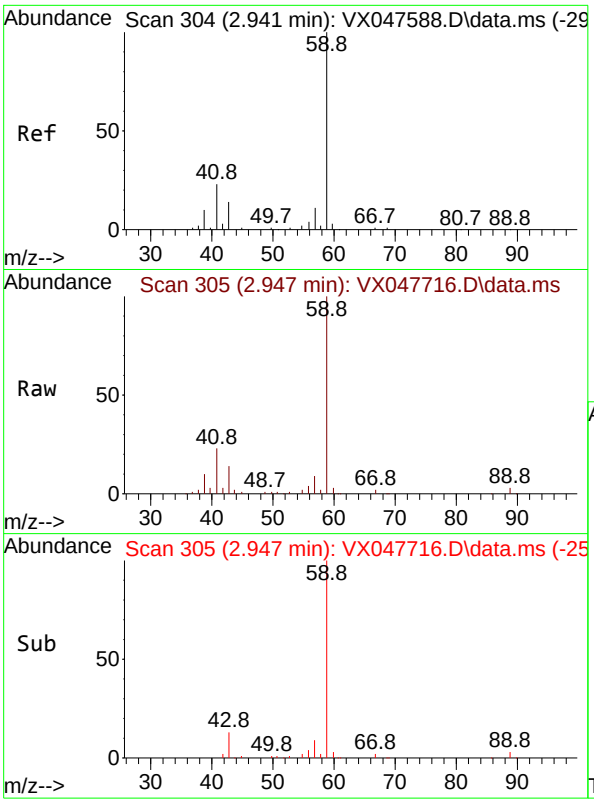


#10
Methyl Iodide
Concen: 50.909 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:142 Resp: 139082

Ion	Ratio	Lower	Upper
142	100		
127	46.9	37.2	55.8
141	14.1	11.4	17.0



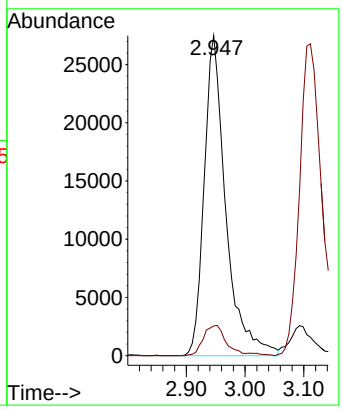


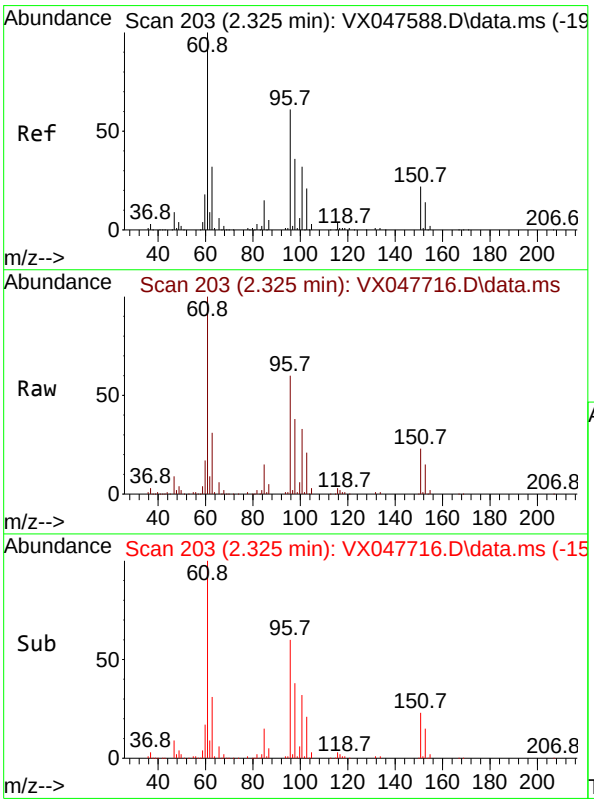
#11
Tert butyl alcohol
Concen: 261.840 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 59 Resp: 70300

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.3	12.5

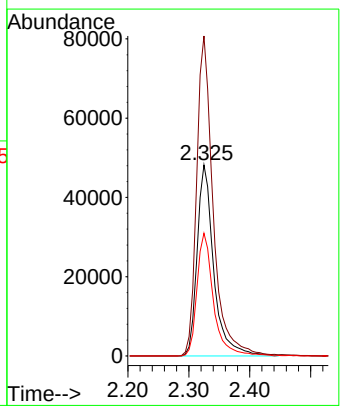


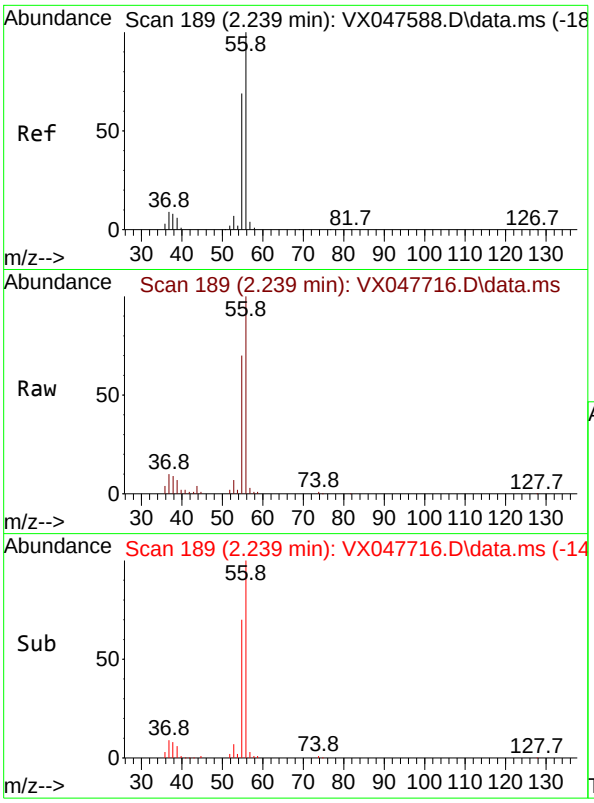


#12
1,1-Dichloroethene
Concen: 50.868 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 96 Resp: 91530

Ion	Ratio	Lower	Upper
96	100		
61	167.4	131.0	196.6
98	64.2	47.7	71.5



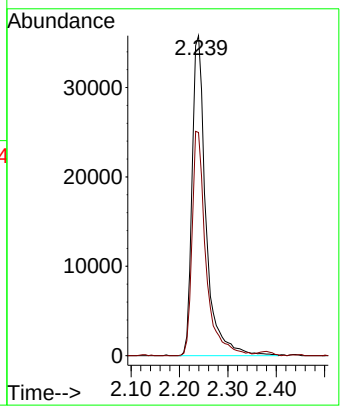


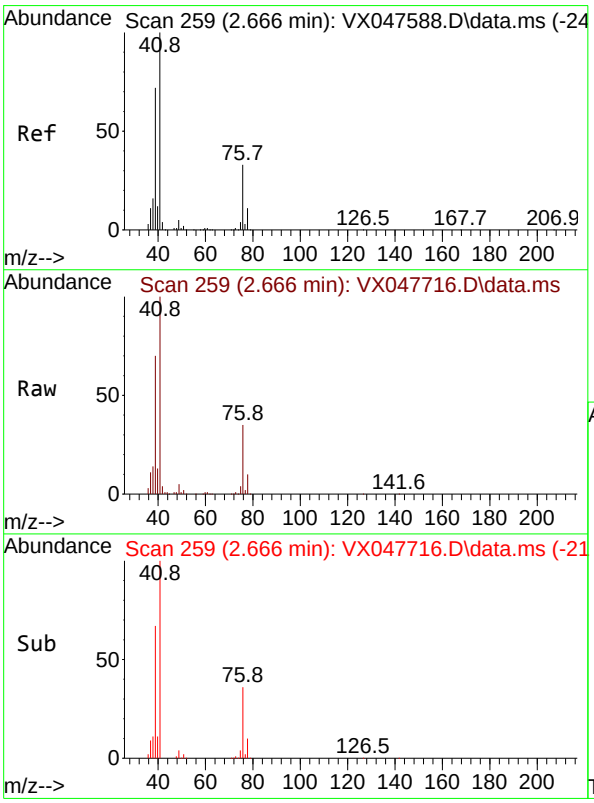
#13
Acrolein
Concen: 287.956 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 56 Resp: 71244

Ion	Ratio	Lower	Upper
56	100		
55	70.0	57.2	85.8

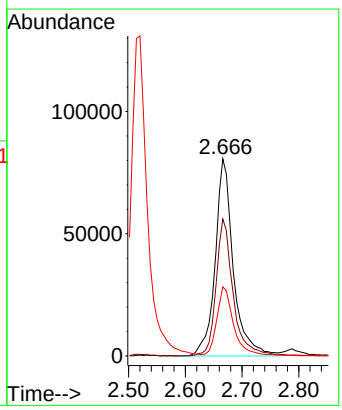


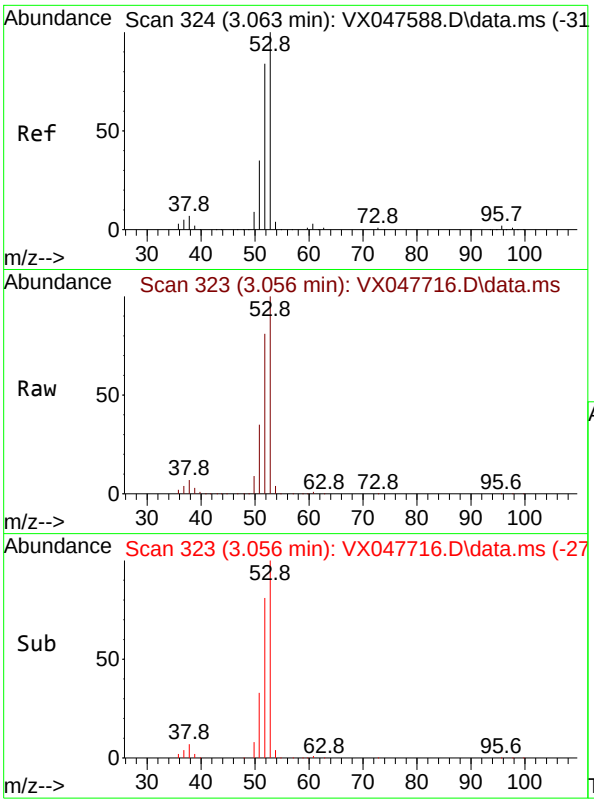


#14
Allyl chloride
Concen: 48.482 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 41 Resp: 180017

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.7	82.1
76	32.4	25.7	38.5



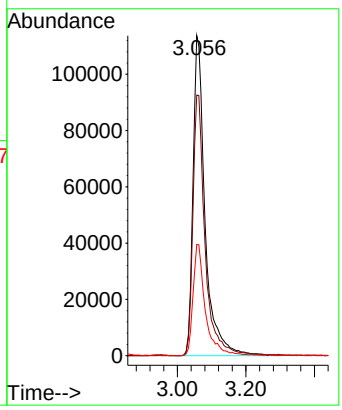


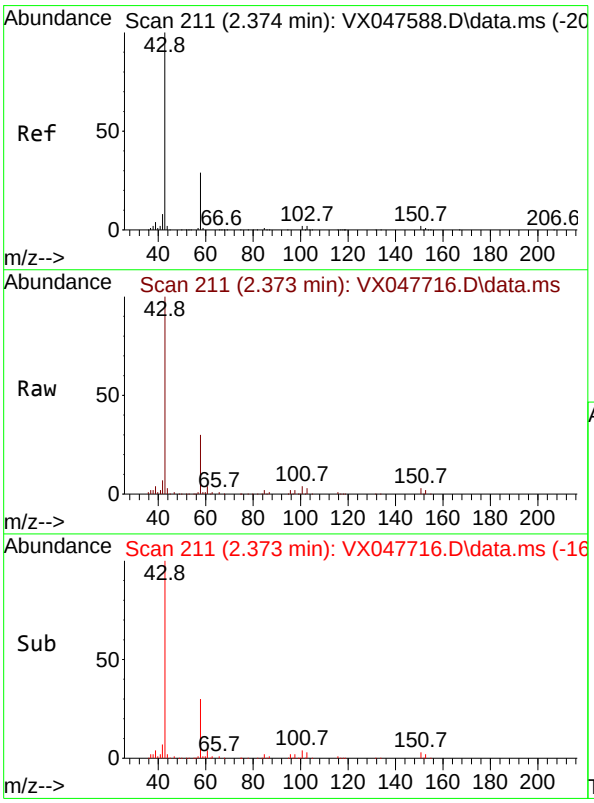
#15
Acrylonitrile
Concen: 281.266 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 53 Resp: 279714

Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.4	99.6
51	35.3	29.5	44.3

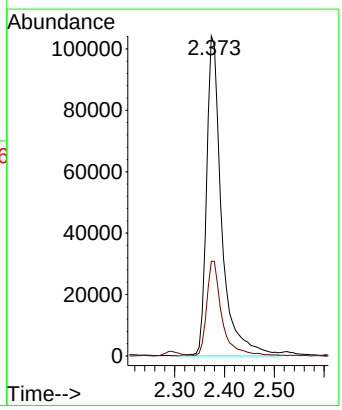


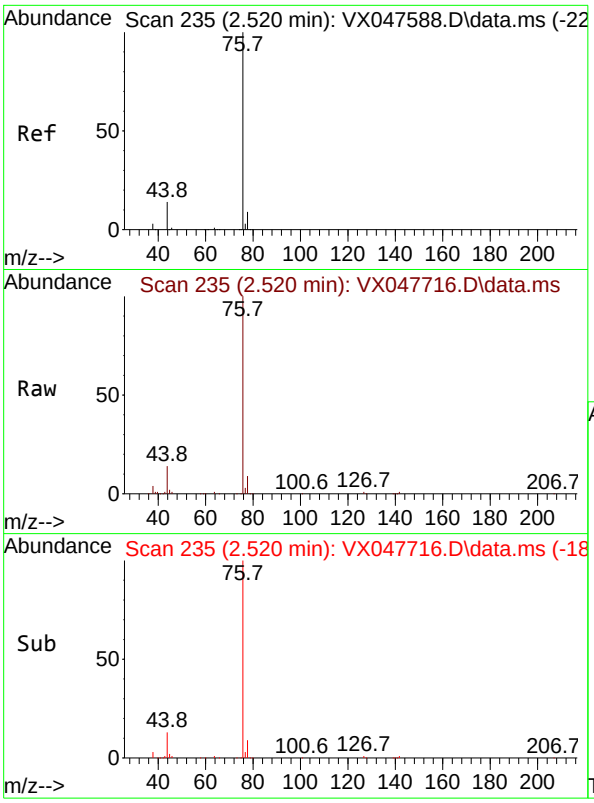


#16
Acetone
Concen: 209.489 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 219579

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0



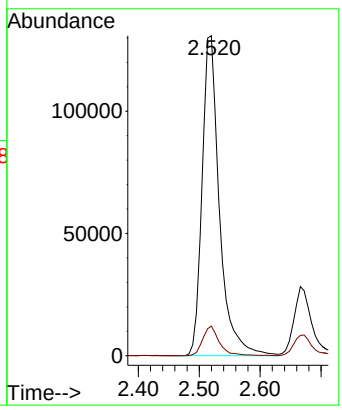


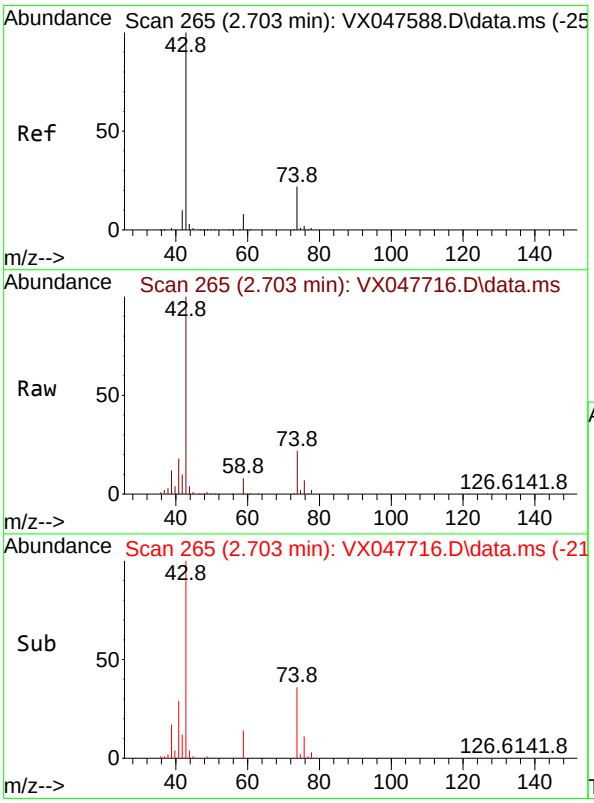
#17
Carbon Disulfide
Concen: 52.604 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 76 Resp: 259123

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2

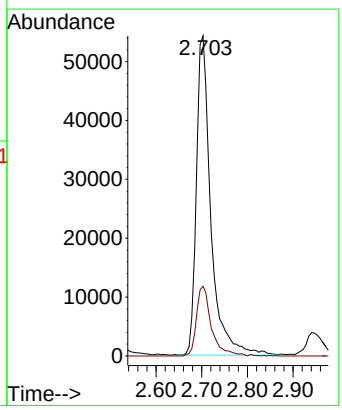


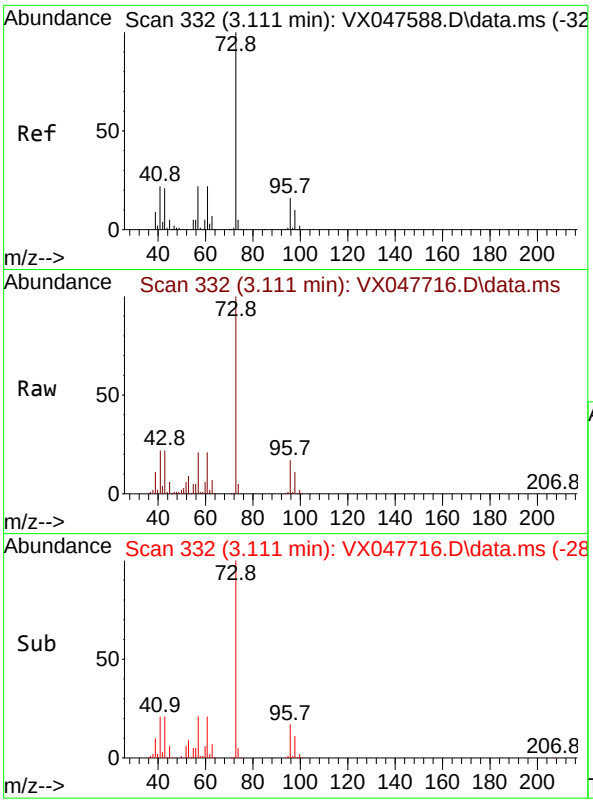


#18
Methyl Acetate
Concen: 51.219 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 119477

Ion	Ratio	Lower	Upper
43	100		
74	22.3	17.4	26.2



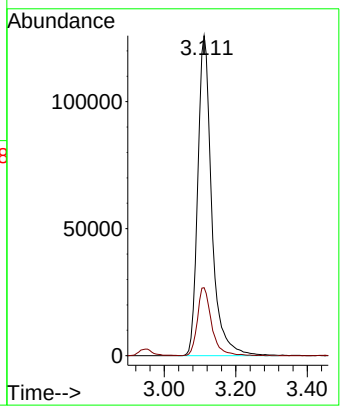


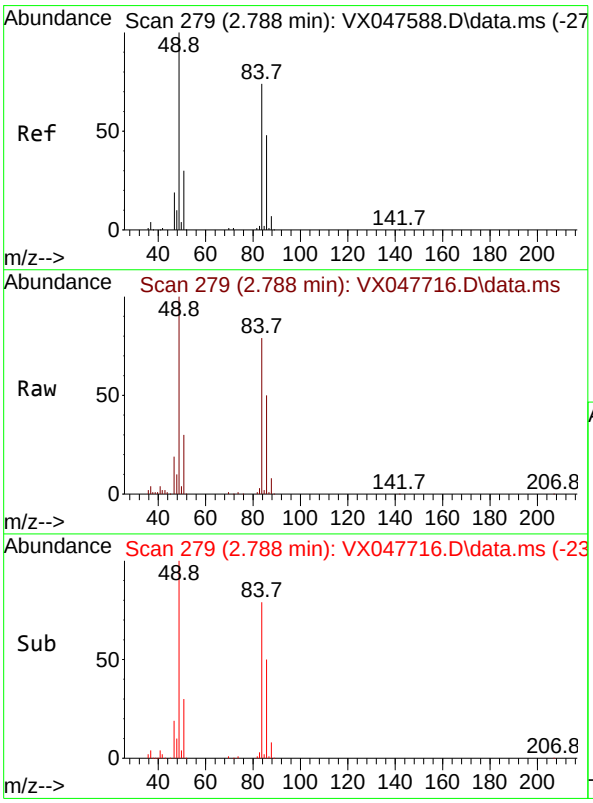
#19
Methyl tert-butyl Ether
Concen: 51.785 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 73 Resp: 340150

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.4	26.2

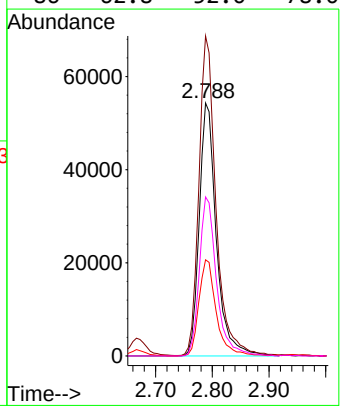


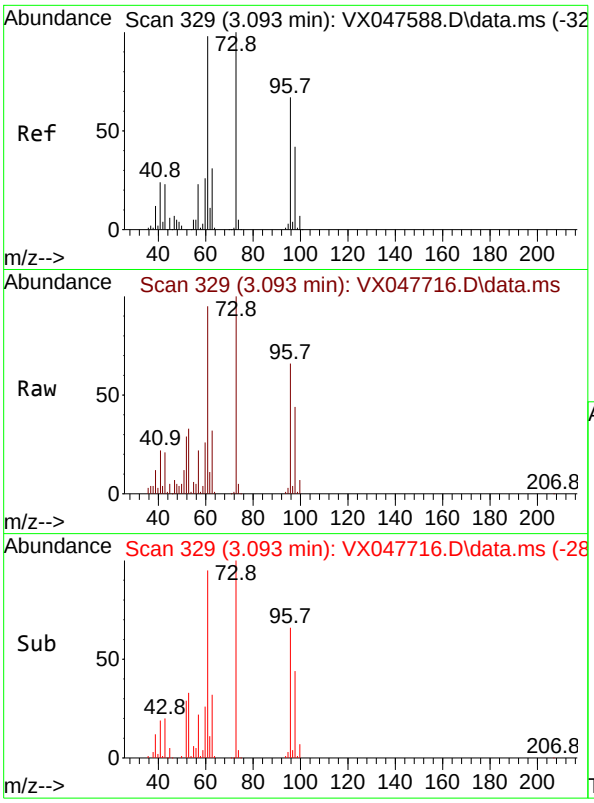


#20
Methylene Chloride
Concen: 51.384 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 84 Resp: 114006

Ion	Ratio	Lower	Upper
84	100		
49	126.3	108.6	162.8
51	38.0	32.6	48.8
86	62.8	52.0	78.0



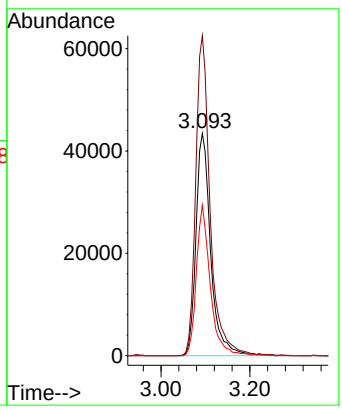


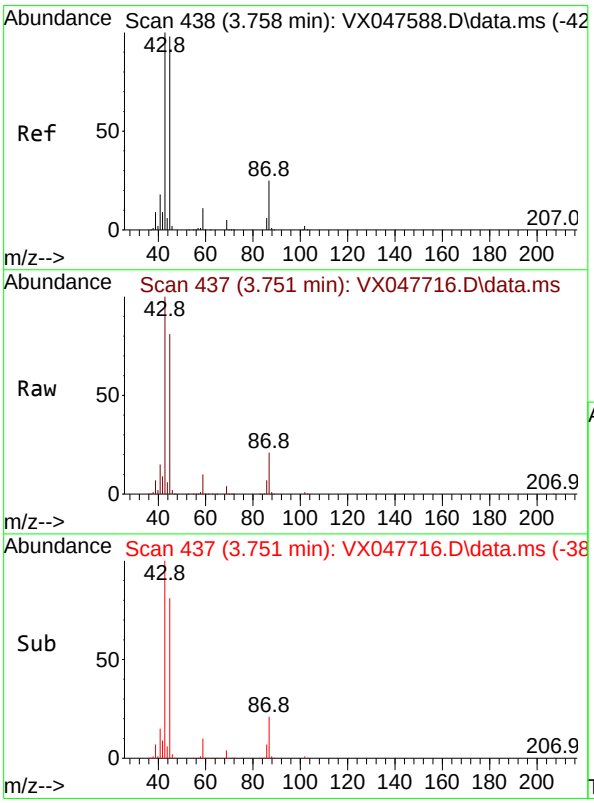
#21
trans-1,2-Dichloroethene
Concen: 51.665 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 96 Resp: 100087

Ion	Ratio	Lower	Upper
96	100		
61	144.0	116.2	174.2
98	67.7	49.3	73.9

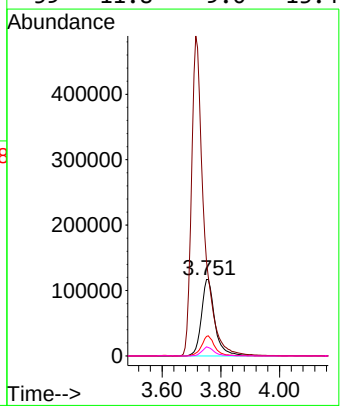


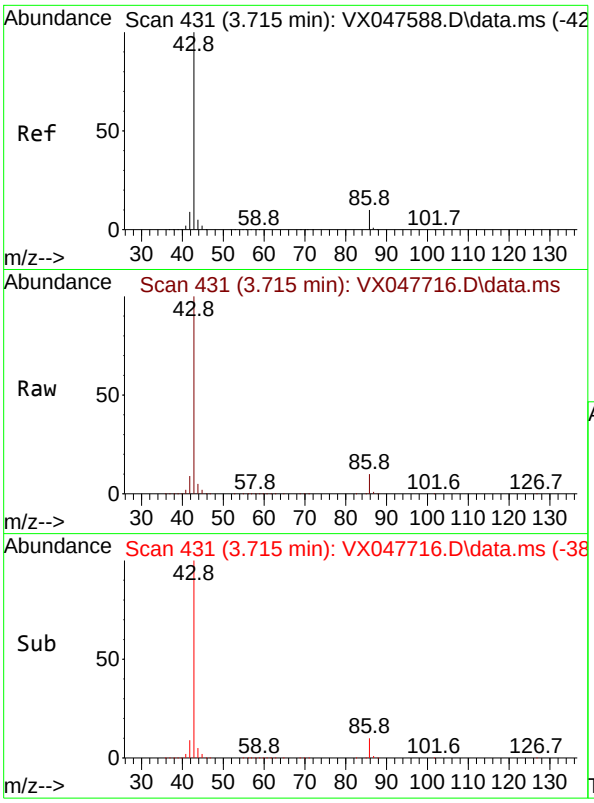


#22
Diisopropyl ether
Concen: 51.509 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 45 Resp: 370654

Ion	Ratio	Lower	Upper
45	100		
43	123.3	81.0	121.4#
87	25.6	20.3	30.5
59	11.8	9.0	13.4



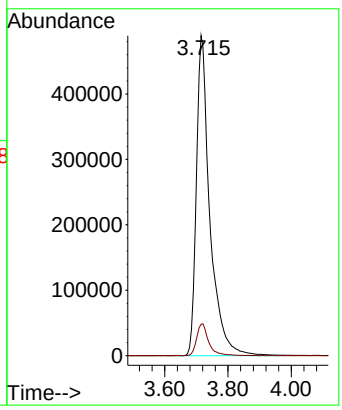


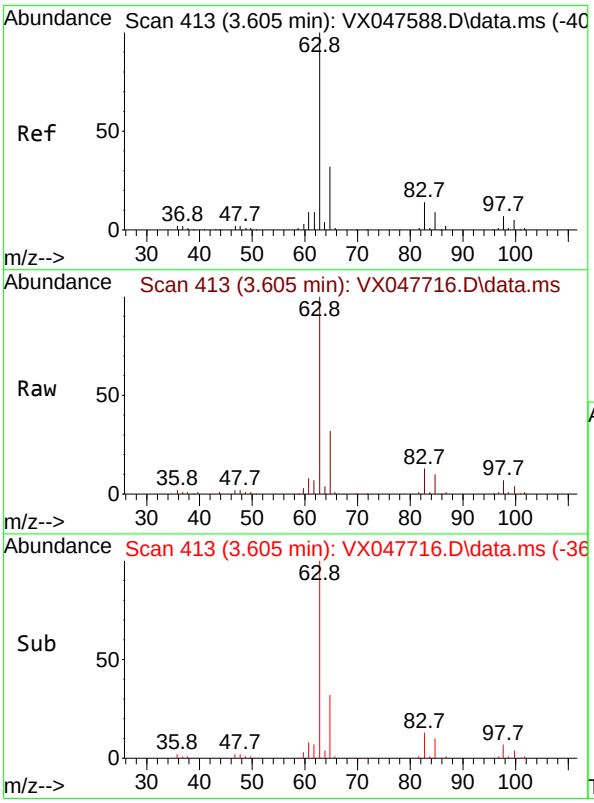
#23
Vinyl Acetate
Concen: 252.128 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 43 Resp: 1452069

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8

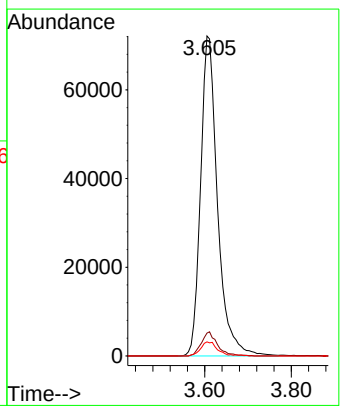


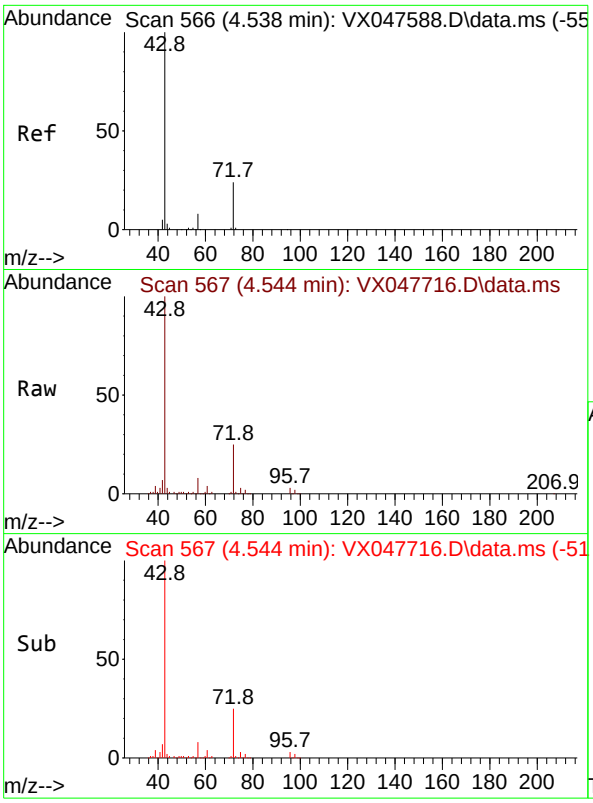


#24
1,1-Dichloroethane
Concen: 51.190 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 63 Resp: 195788

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.8	11.2
100	4.4	2.3	6.9



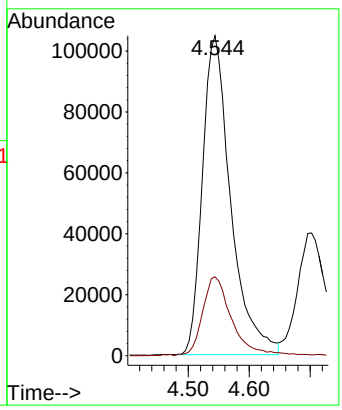


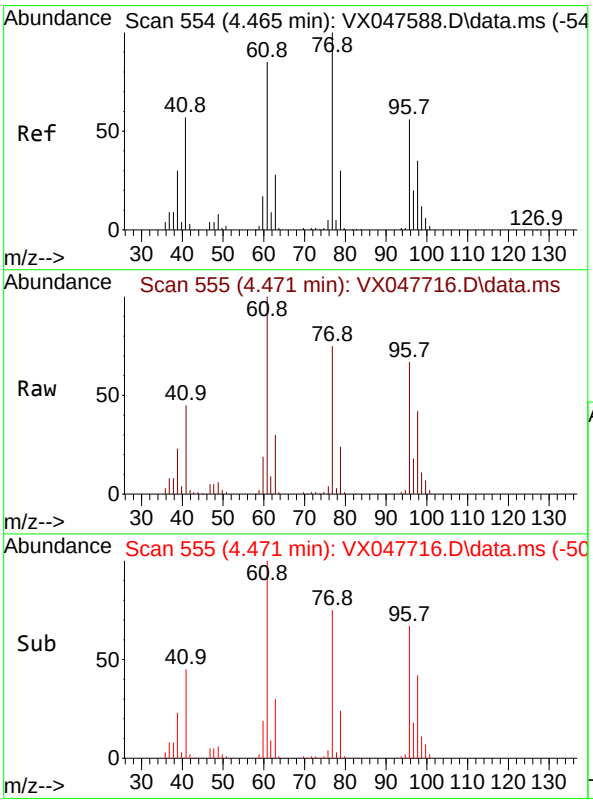
#25
2-Butanone
Concen: 258.910 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 43 Resp: 338514

Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.1	30.1

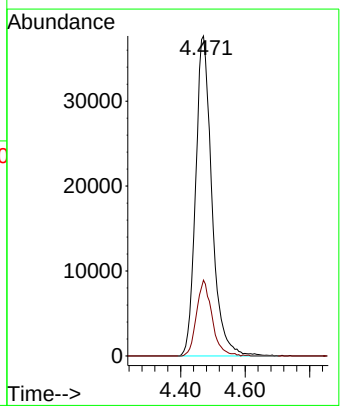


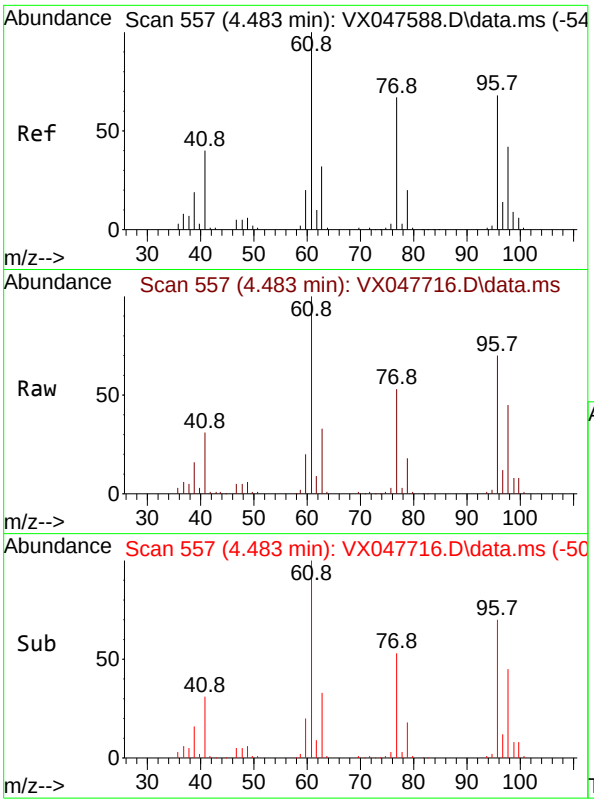


#26
2,2-Dichloropropane
Concen: 41.436 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 77 Resp: 131738

Ion	Ratio	Lower	Upper
77	100		
97	22.7	10.9	32.7



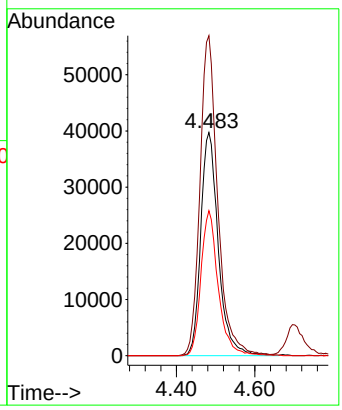


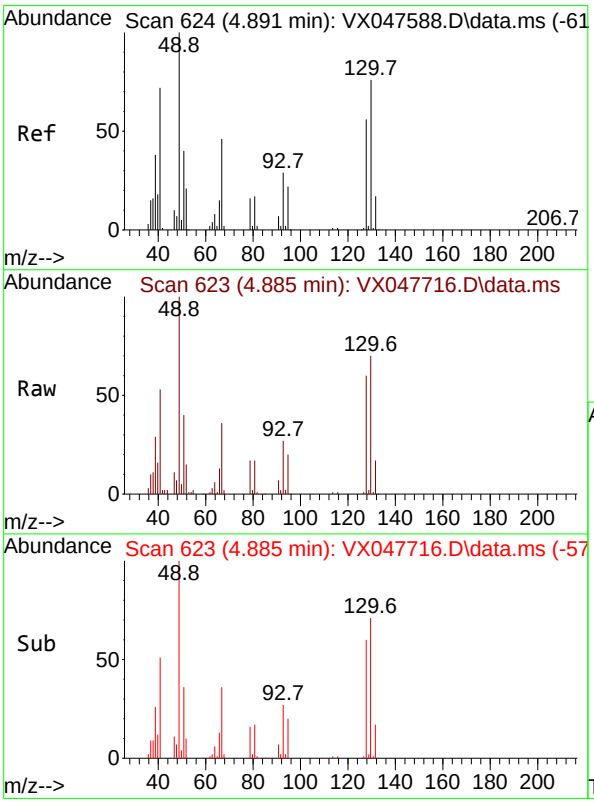
#27
cis-1,2-Dichloroethene
Concen: 51.997 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 96 Resp: 123362

Ion	Ratio	Lower	Upper
96	100		
61	145.8	0.0	303.2
98	64.0	0.0	127.8

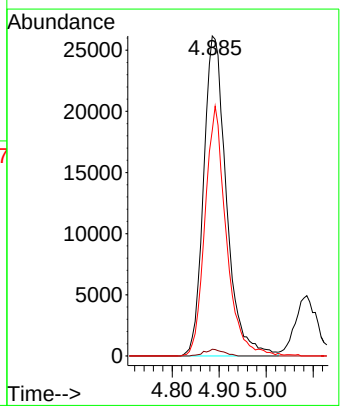


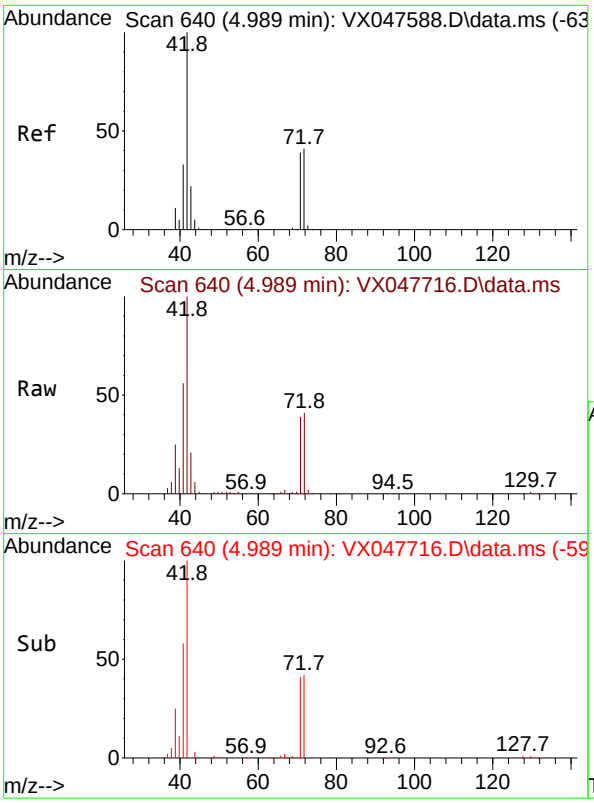


#28
Bromochloromethane
Concen: 52.806 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 49 Resp: 88172

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.7	57.8	86.8



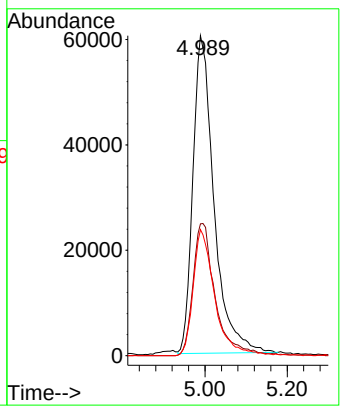


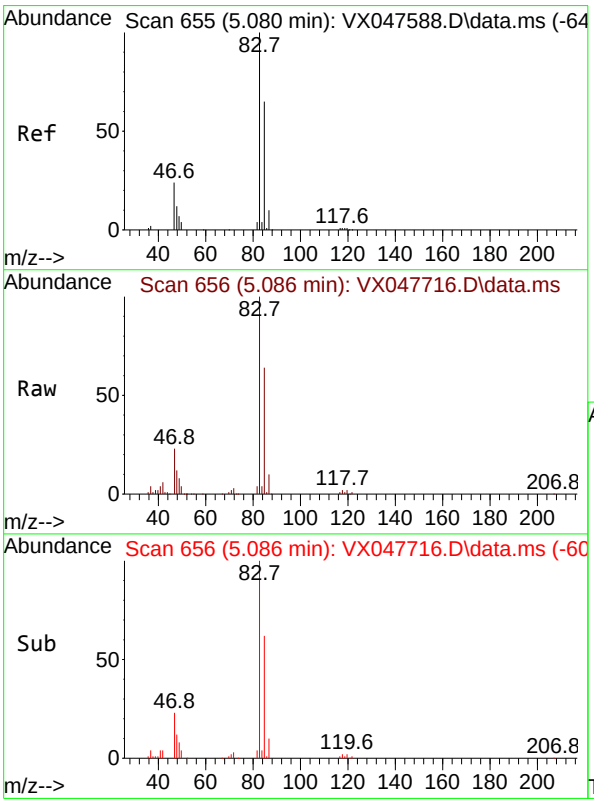
#29
Tetrahydrofuran
Concen: 272.818 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 42 Resp: 214581

Ion	Ratio	Lower	Upper
42	100		
72	43.7	34.2	51.2
71	40.6	31.9	47.9

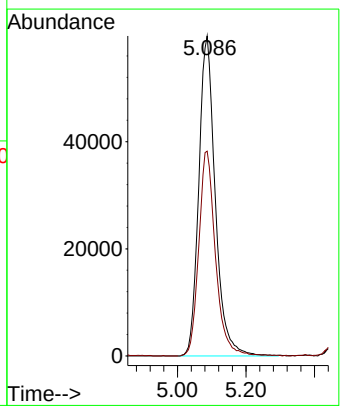


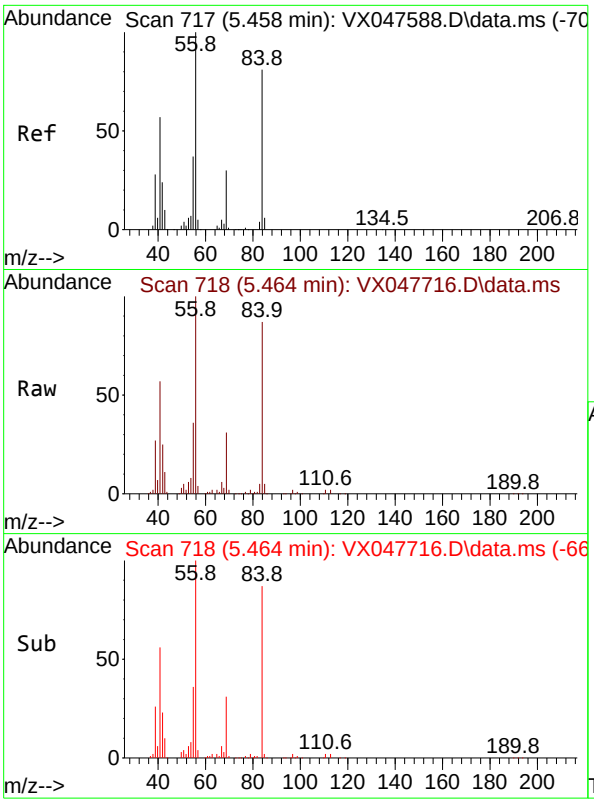


#30
Chloroform
Concen: 51.859 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 83 Resp: 200434

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.8	77.6



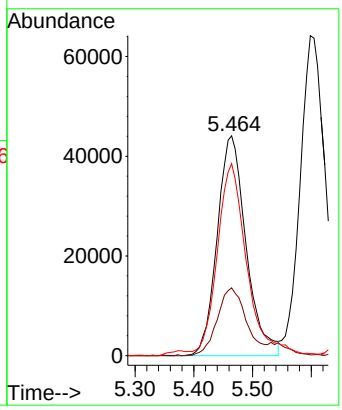


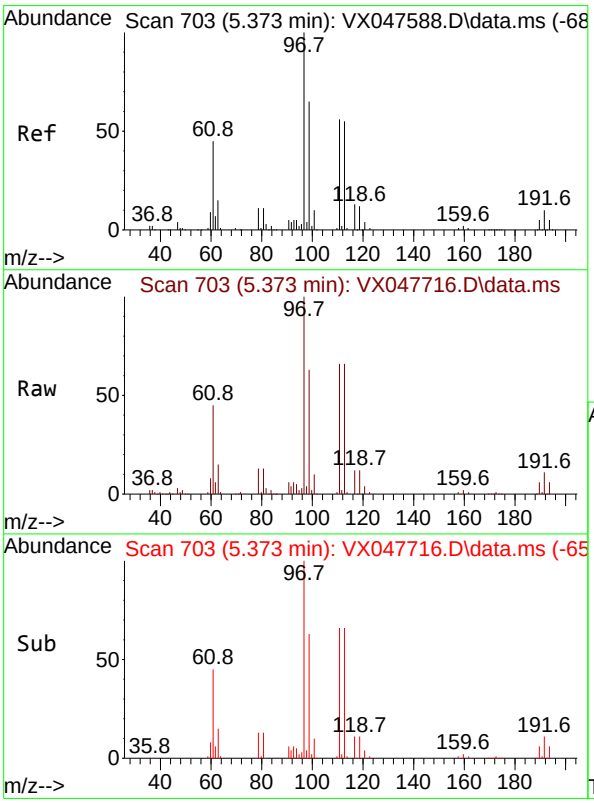
#31
Cyclohexane
Concen: 47.293 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 56 Resp: 150653

Ion	Ratio	Lower	Upper
56	100		
69	30.4	23.8	35.8
84	85.1	64.6	97.0

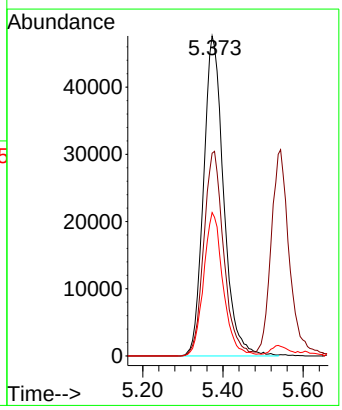


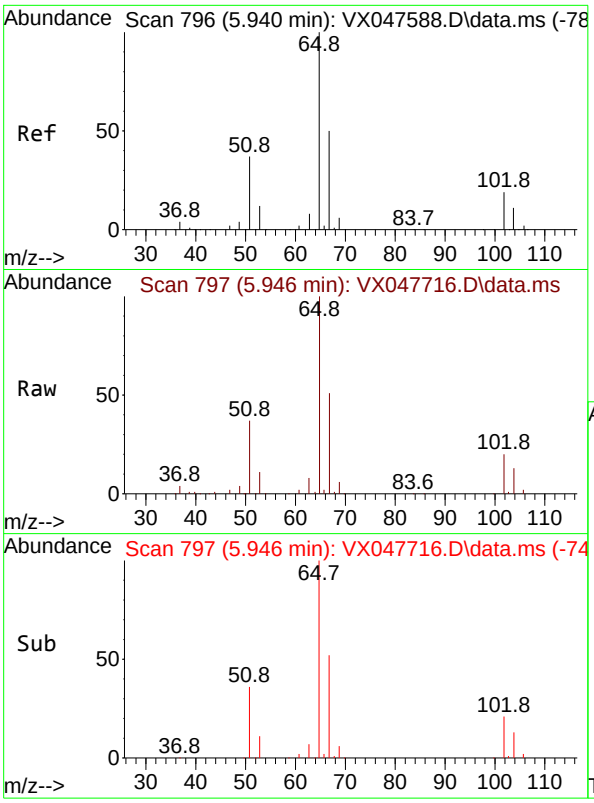


#32
1,1,1-Trichloroethane
Concen: 50.434 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 97 Resp: 165340

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	43.7	35.8	53.8



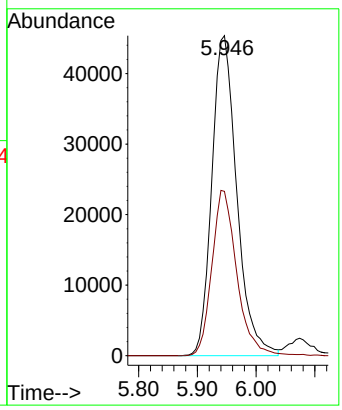


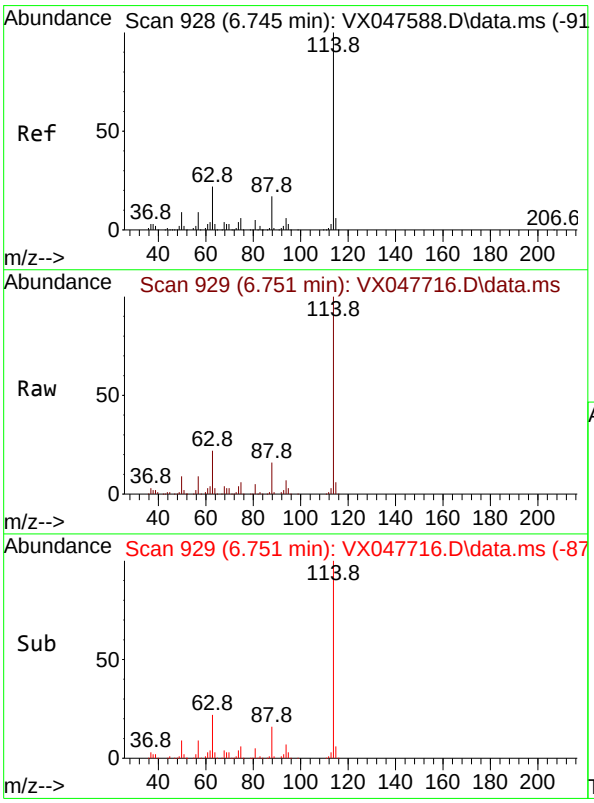
#33
1,2-Dichloroethane-d4
Concen: 55.592 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 65 Resp: 134014

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	103.0

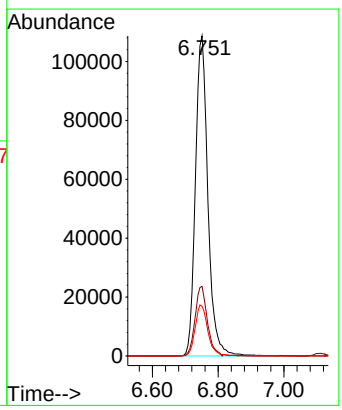


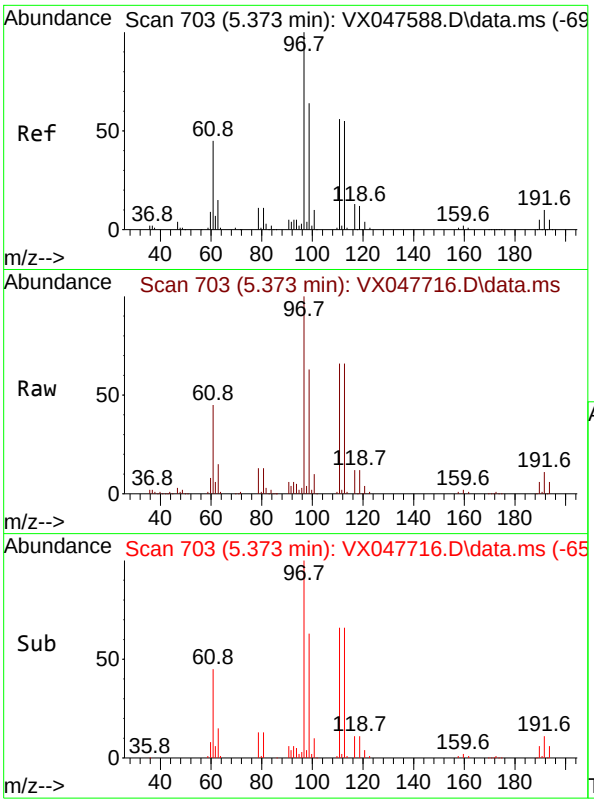


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:114 Resp: 285571

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.0
88	15.5	0.0	34.2



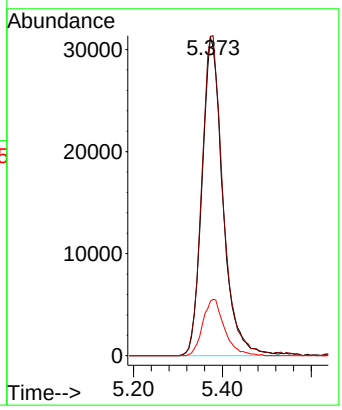


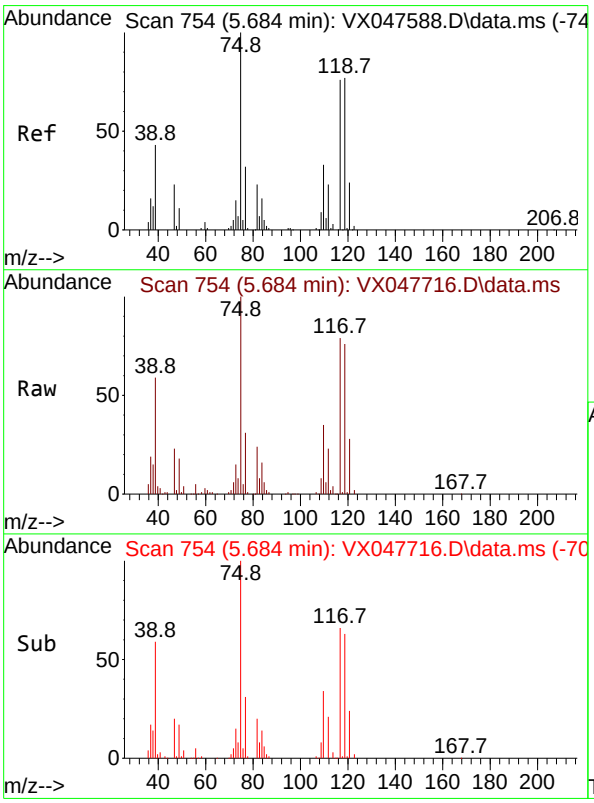
#35
Dibromofluoromethane
Concen: 53.007 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:113 Resp: 101518

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.9	121.3
192	18.5	14.2	21.4

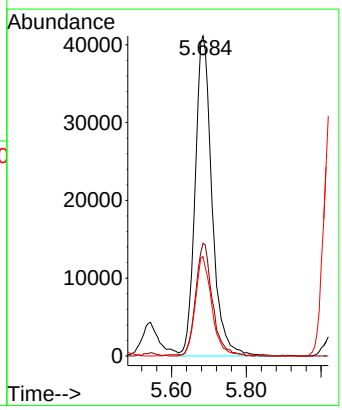


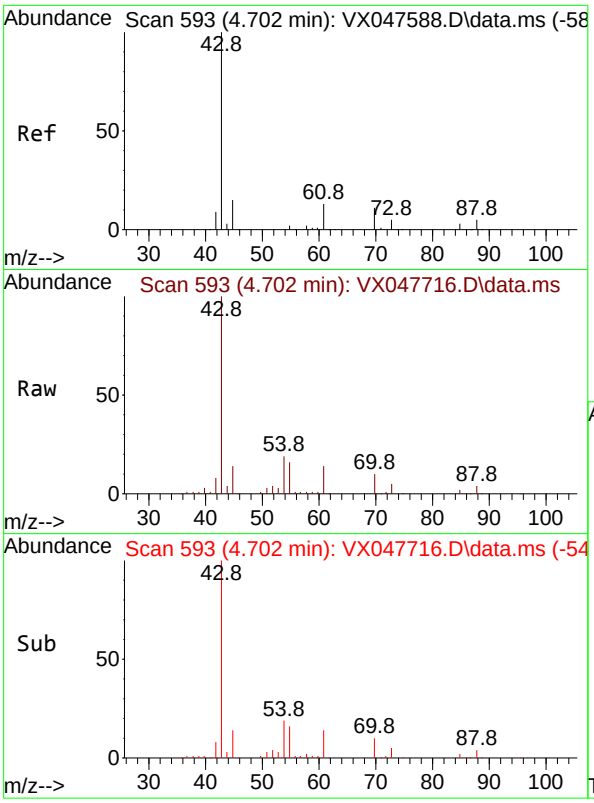


#36
1,1-Dichloropropene
Concen: 46.039 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 75 Resp: 128843

Ion	Ratio	Lower	Upper
75	100		
110	35.0	16.7	50.1
77	30.9	24.3	36.5



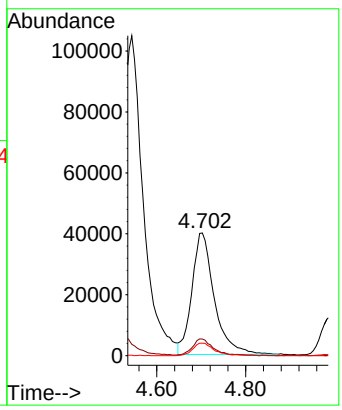


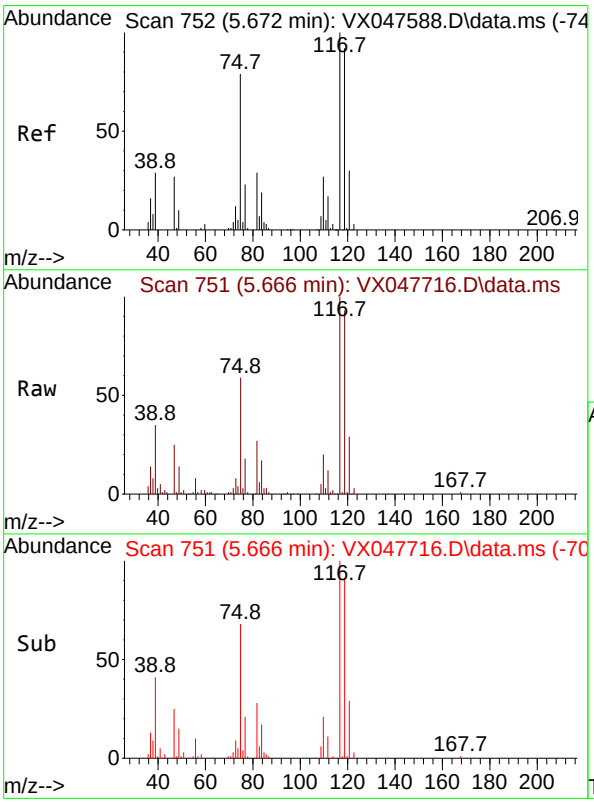
#37
Ethyl Acetate
Concen: 46.402 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 43 Resp: 139040

Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.8	14.8
70	10.0	7.9	11.9

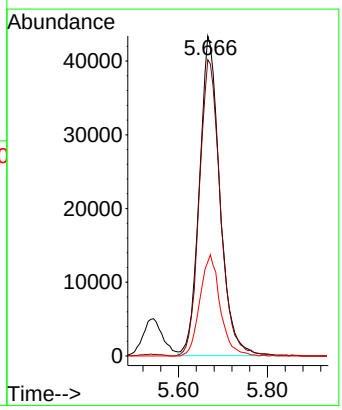


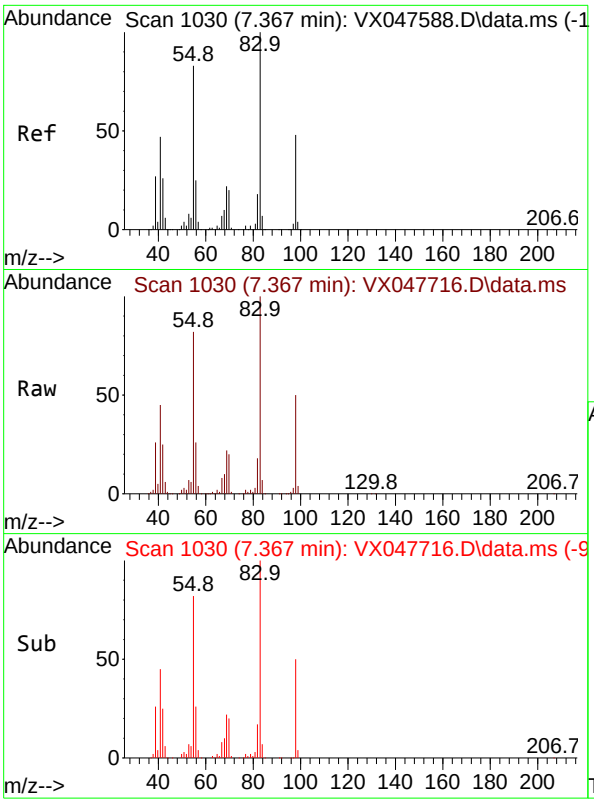


#38
Carbon Tetrachloride
Concen: 45.547 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:117 Resp: 138495

Ion	Ratio	Lower	Upper
117	100		
119	92.4	73.4	110.2
121	29.5	23.8	35.6



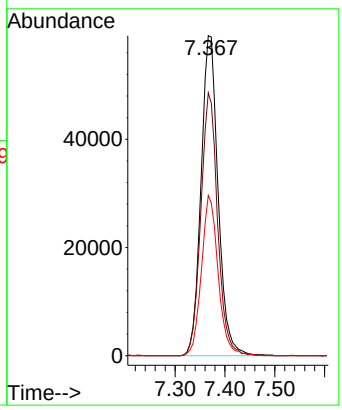


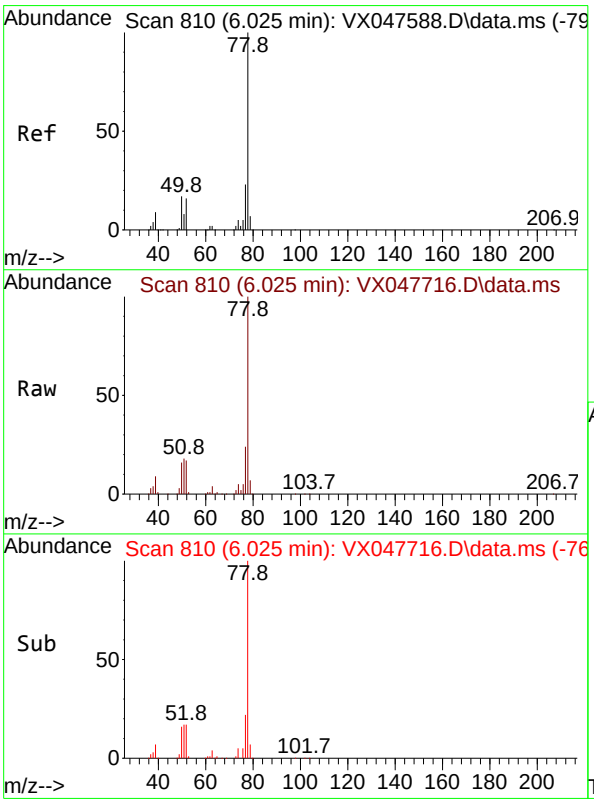
#39
Methylcyclohexane
Concen: 44.350 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 83 Resp: 140889

Ion	Ratio	Lower	Upper
83	100		
55	82.1	66.4	99.6
98	50.1	38.1	57.1

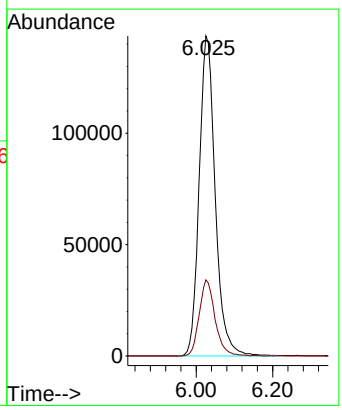


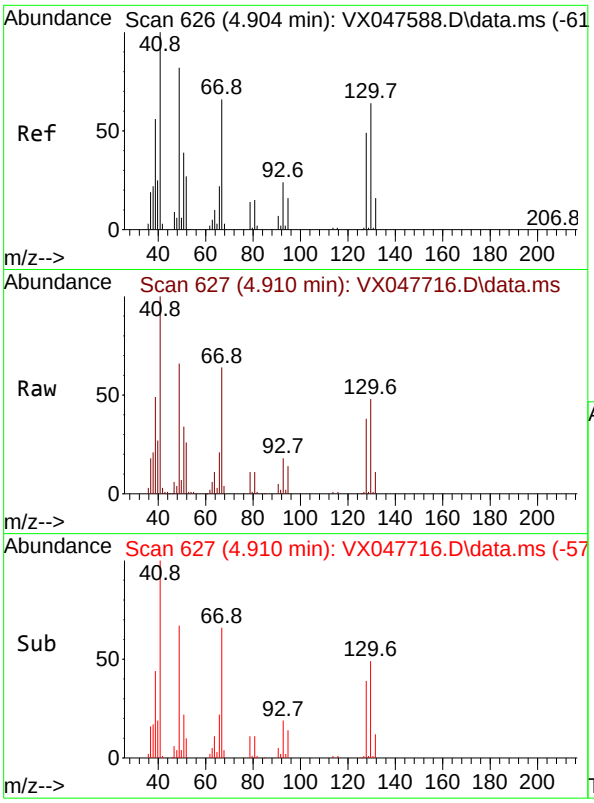


#40
Benzene
Concen: 49.262 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 78 Resp: 418727

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2



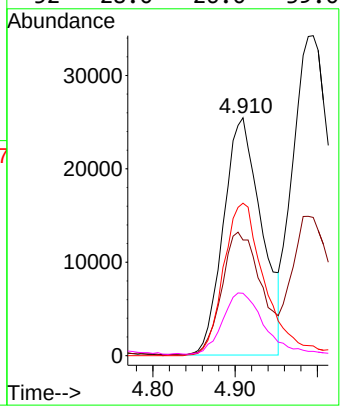


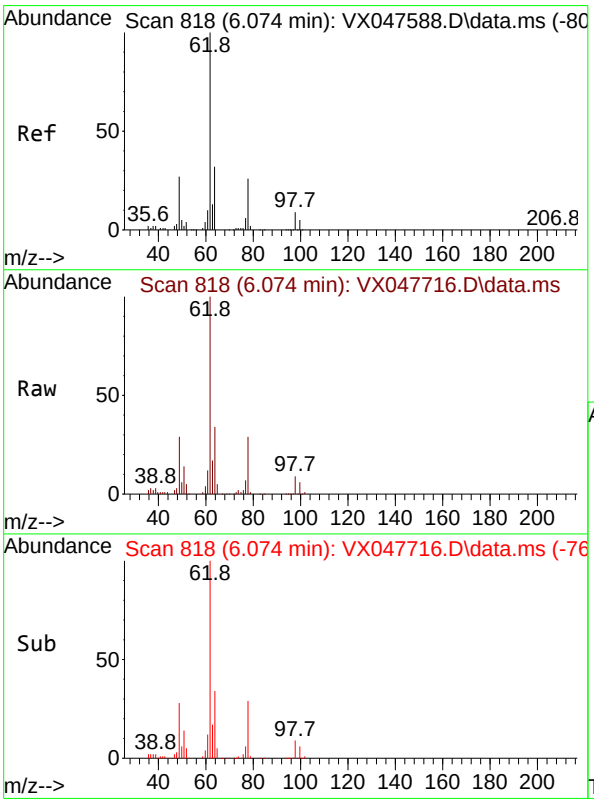
#41
Methacrylonitrile
Concen: 52.951 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 41 Resp: 81912

Ion	Ratio	Lower	Upper
41	100		
39	54.6	43.3	64.9
67	70.9	58.6	87.8
52	28.0	26.0	39.0

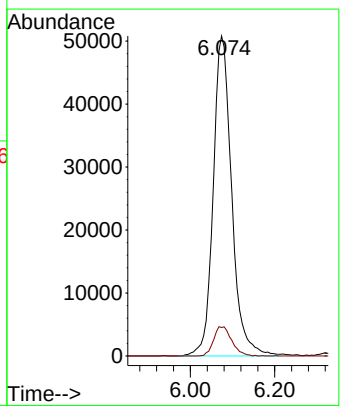


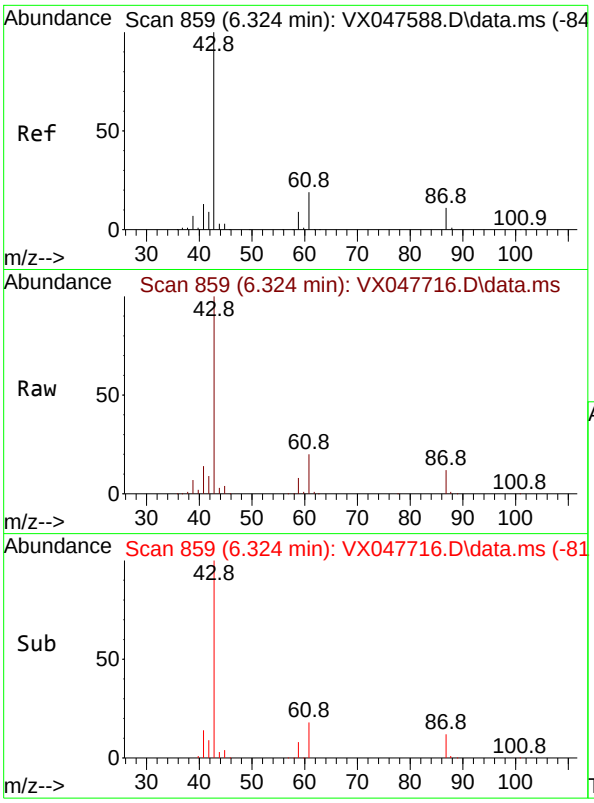


#42
1,2-Dichloroethane
Concen: 47.733 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 62 Resp: 154372

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0



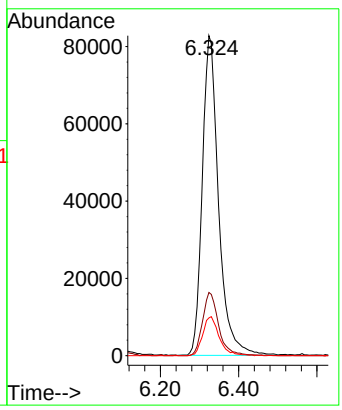


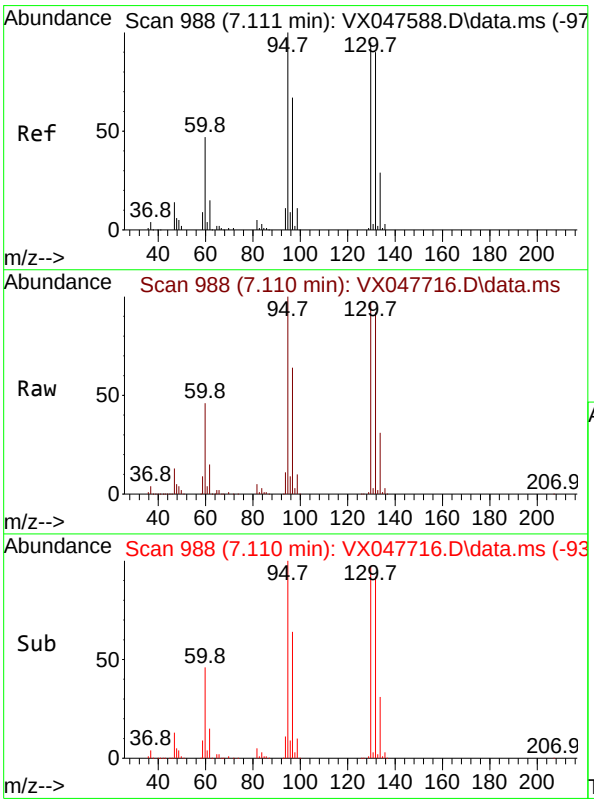
#43
Isopropyl Acetate
Concen: 48.533 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 43 Resp: 238509

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.2	22.8
87	12.3	9.6	14.4

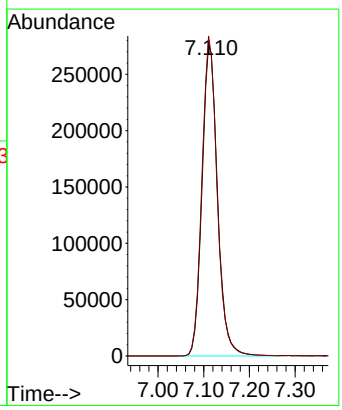


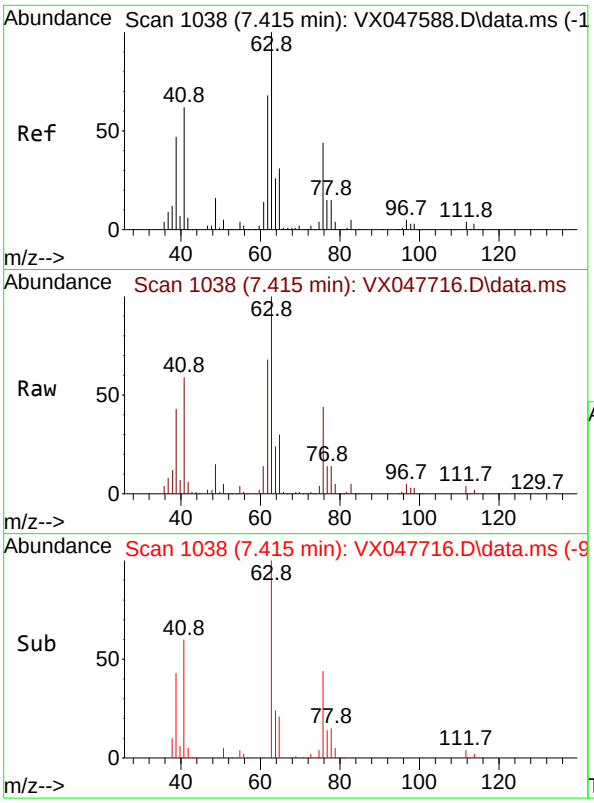


#44
Trichloroethene
Concen: 316.221 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:130 Resp: 649824

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	210.8



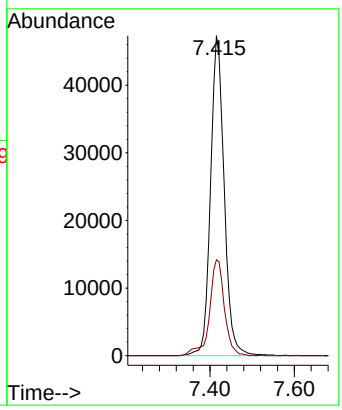


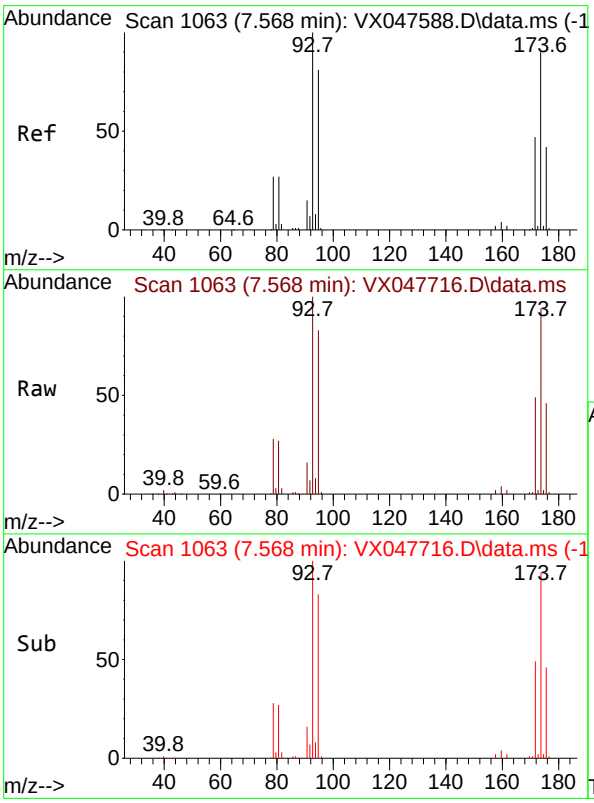
#45
1,2-Dichloropropane
Concen: 48.933 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 63 Resp: 106503

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.7	37.1

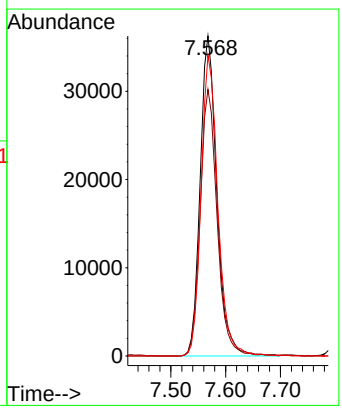


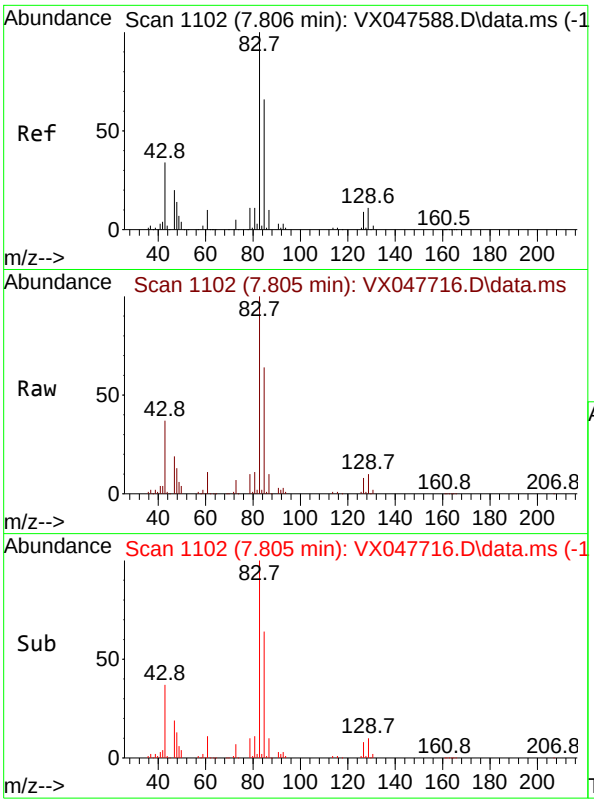


#46
Dibromomethane
Concen: 48.334 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 93 Resp: 76554

Ion	Ratio	Lower	Upper
93	100		
95	84.6	65.0	97.6
174	94.6	71.6	107.4



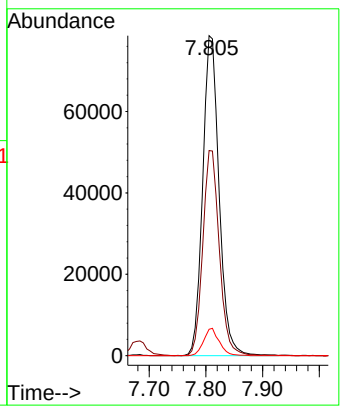


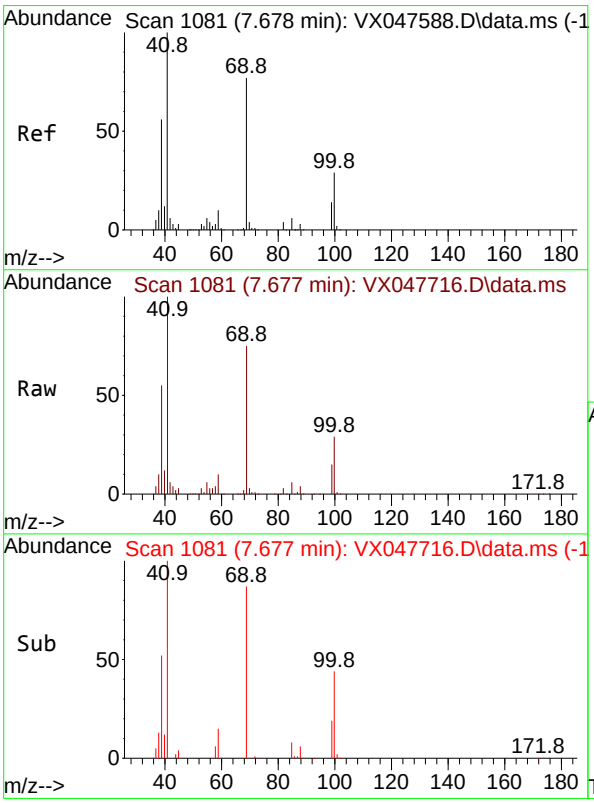
#47
Bromodichloromethane
Concen: 48.363 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 83 Resp: 158068

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.5	78.7
127	8.3	6.9	10.3

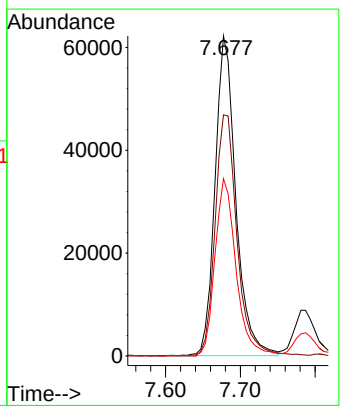


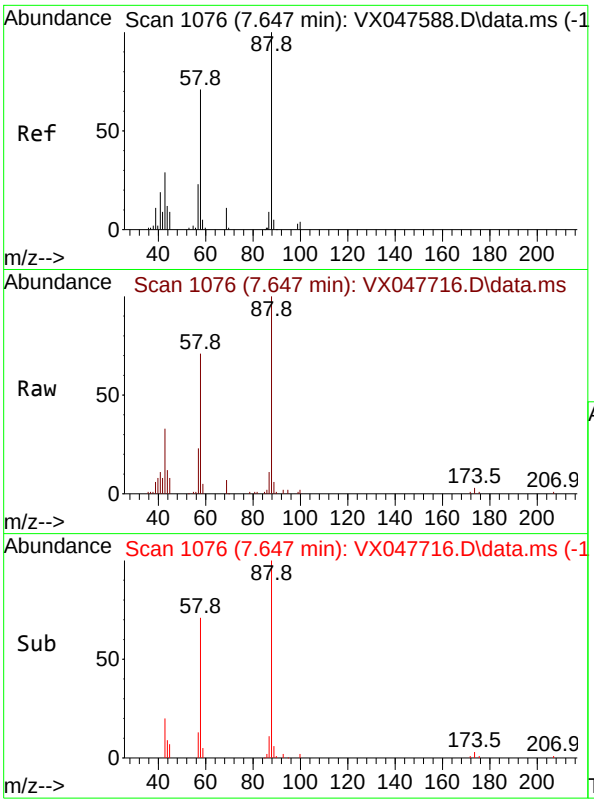


#48
Methyl methacrylate
Concen: 49.151 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 41 Resp: 120316

Ion	Ratio	Lower	Upper
41	100		
69	79.9	61.4	92.2
39	55.9	45.8	68.6



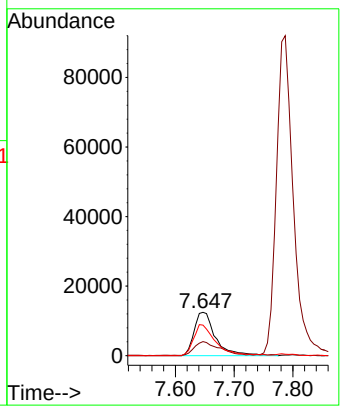


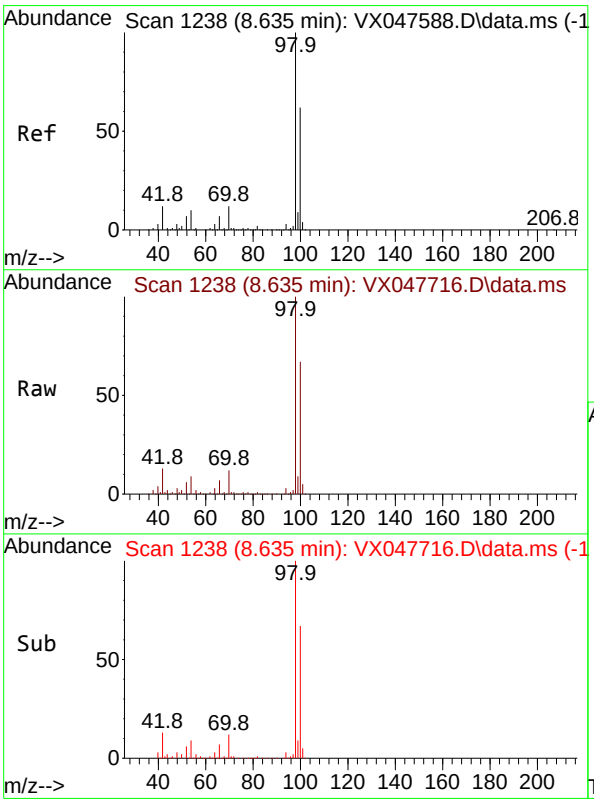
#49
1,4-Dioxane
Concen: 1276.303 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 88 Resp: 31574

Ion	Ratio	Lower	Upper
88	100		
43	37.2	30.2	45.2
58	73.5	59.5	89.3

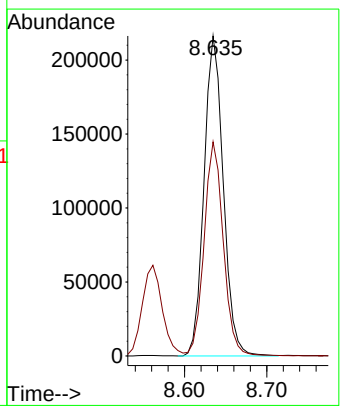


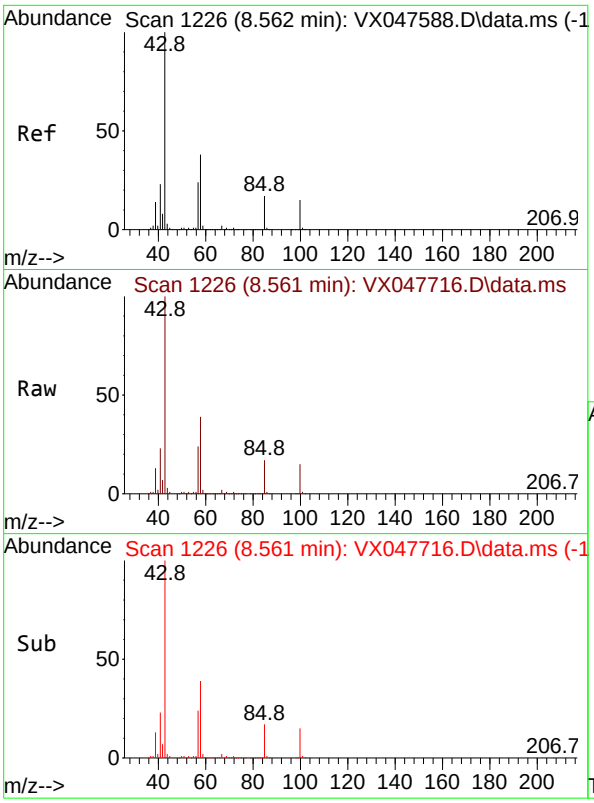


#50
Toluene-d8
Concen: 53.107 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 98 Resp: 351935

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.0	79.4



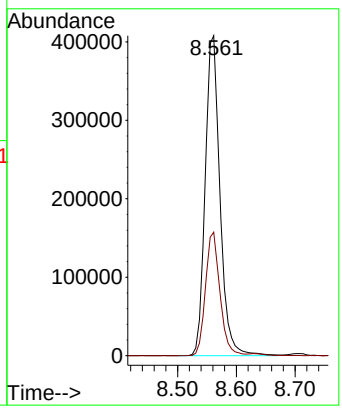


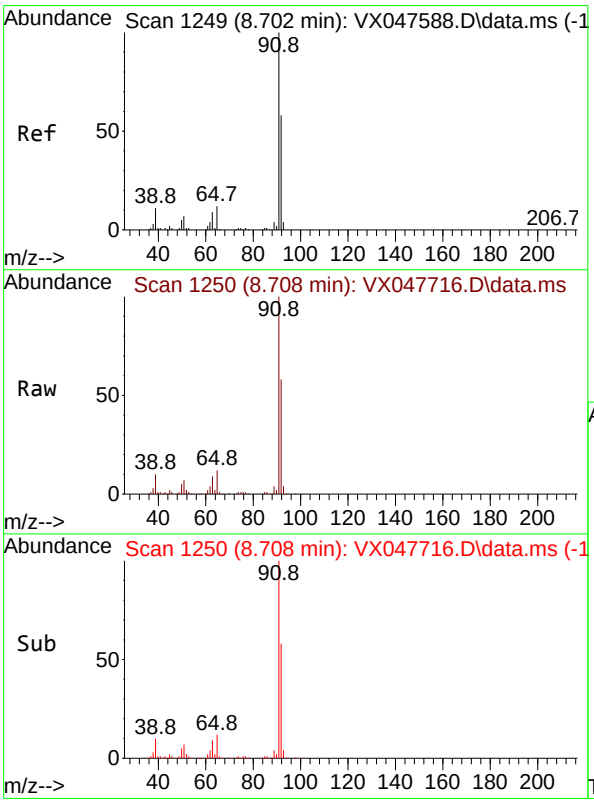
#51
4-Methyl-2-Pentanone
Concen: 261.859 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 43 Resp: 713498

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5

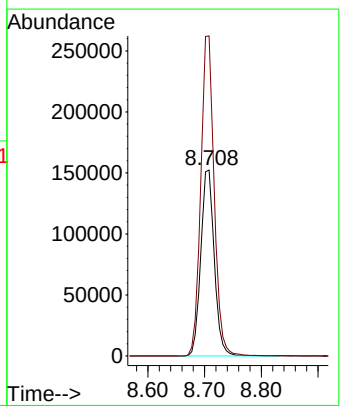


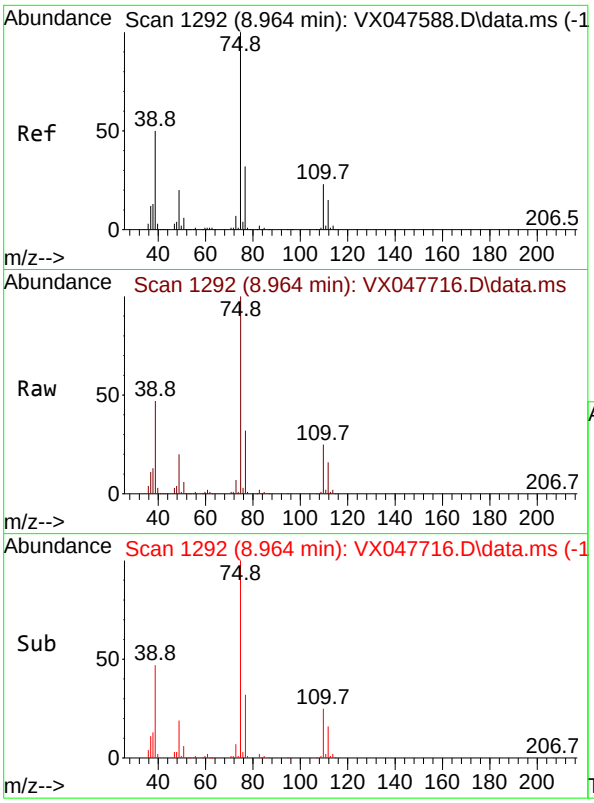


#52
Toluene
Concen: 48.176 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 92 Resp: 252290

Ion	Ratio	Lower	Upper
92	100		
91	171.2	137.1	205.7



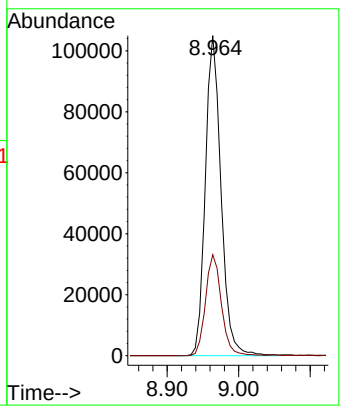


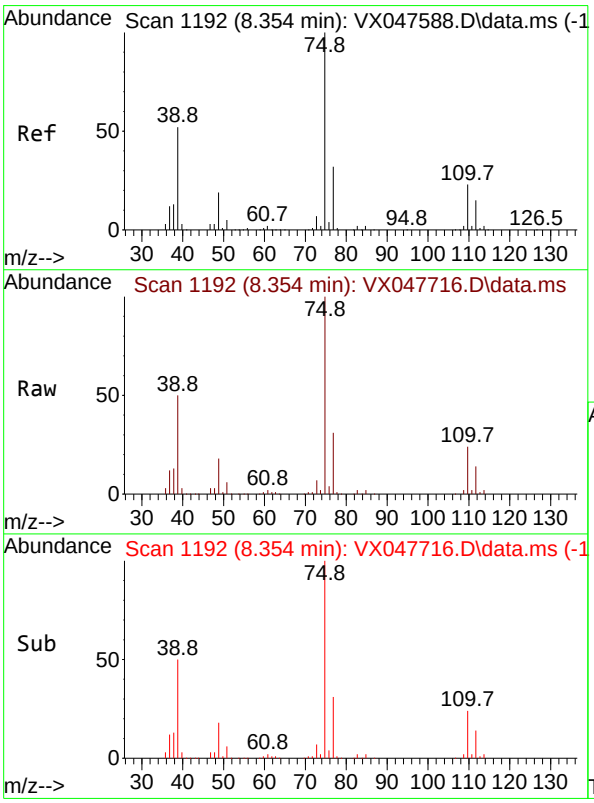
#53
t-1,3-Dichloropropene
Concen: 48.021 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 75 Resp: 160090

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

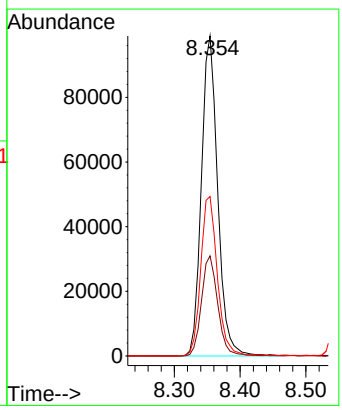


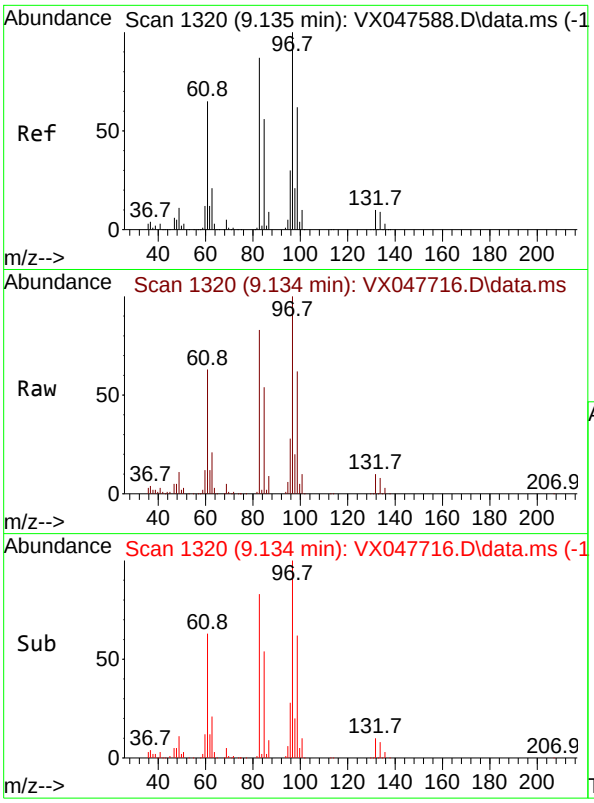


#54
cis-1,3-Dichloropropene
Concen: 47.854 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 75 Resp: 170516

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.6
39	49.3	41.4	62.2



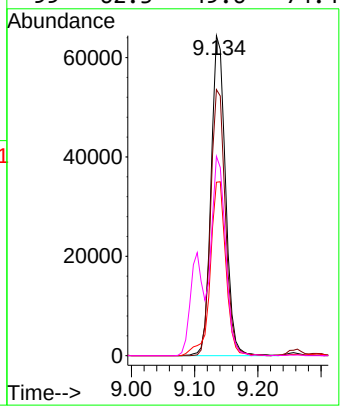


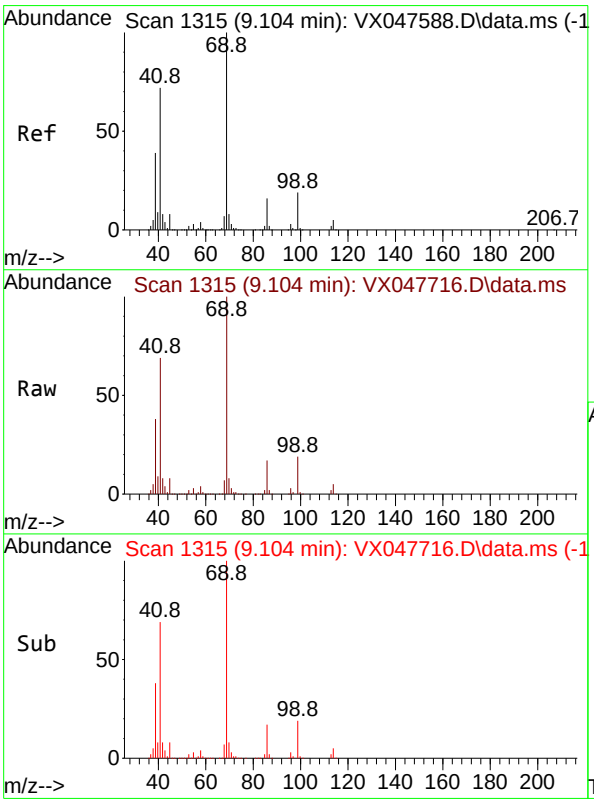
#55
1,1,2-Trichloroethane
Concen: 50.639 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 97 Resp: 102255

Ion	Ratio	Lower	Upper
97	100		
83	83.1	69.6	104.4
85	54.1	45.0	67.6
99	62.3	49.6	74.4

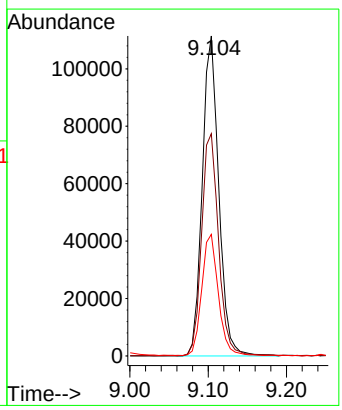


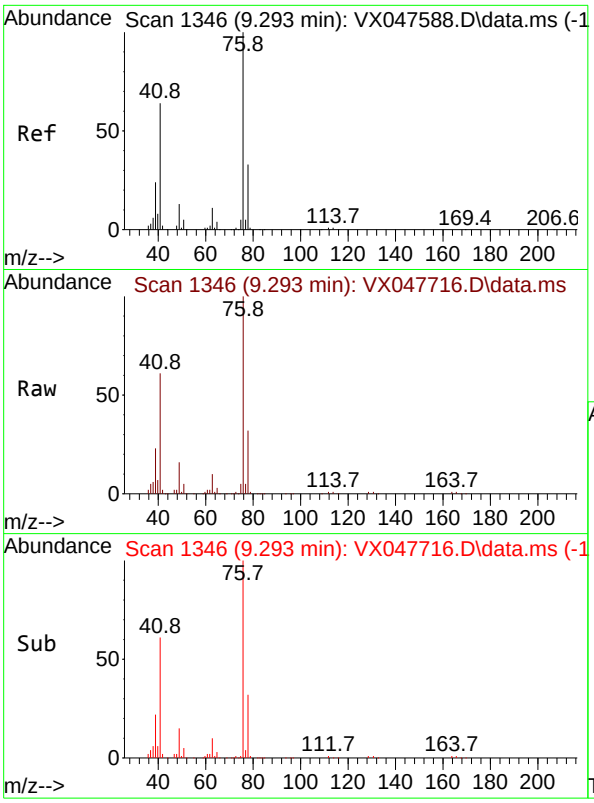


#56
Ethyl methacrylate
Concen: 51.375 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 69 Resp: 162921

Ion	Ratio	Lower	Upper
69	100		
41	71.1	58.6	87.8
39	38.0	31.5	47.3



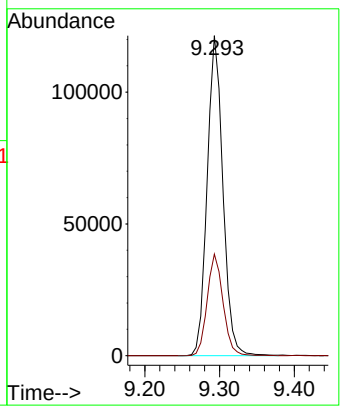


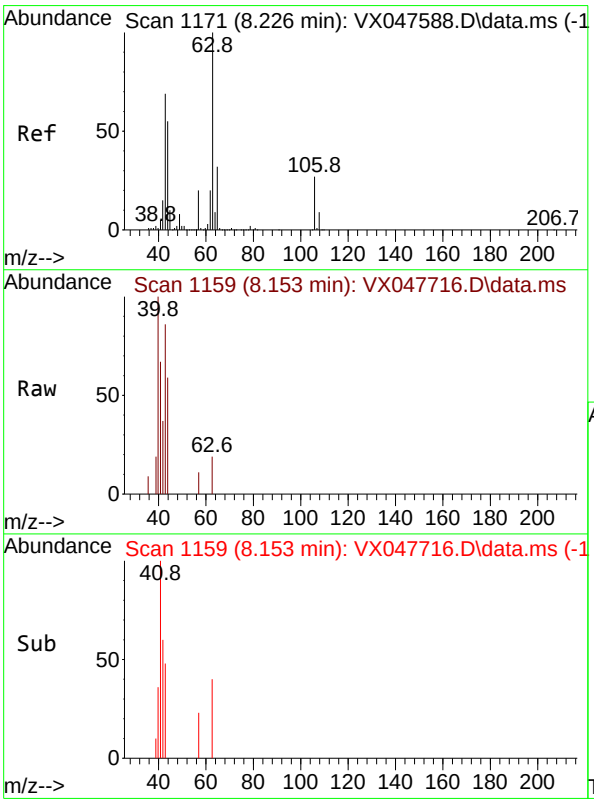
#57
1,3-Dichloropropane
Concen: 51.150 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 76 Resp: 177427

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.4

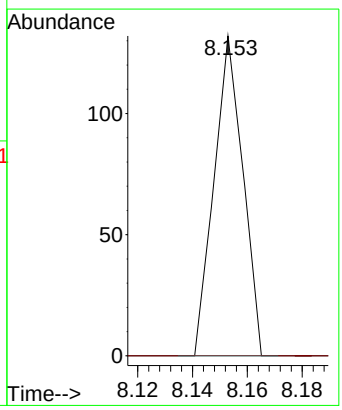


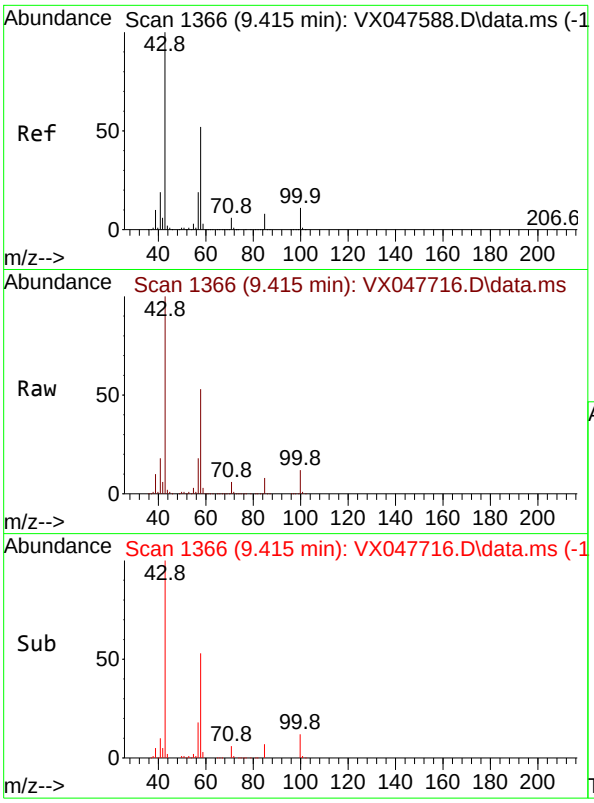


#58
2-Chloroethyl Vinyl ether
Concen: 7.956 ug/l
RT: 8.153 min Scan# 1159
Delta R.T. -0.073 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 63 Resp: 96

Ion	Ratio	Lower	Upper
63	100		
106	0.0	21.9	32.9#



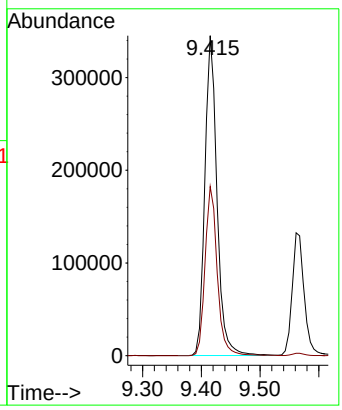


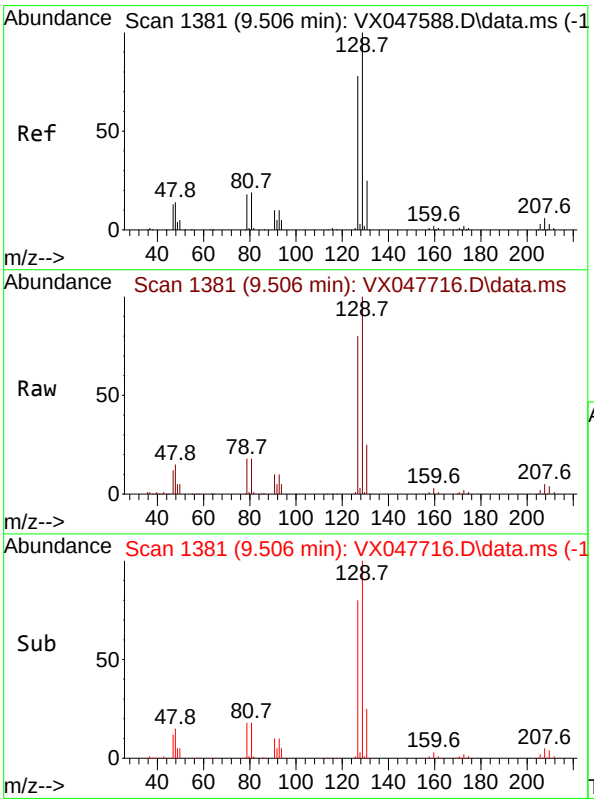
#59
2-Hexanone
Concen: 253.602 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 43 Resp: 496279

Ion	Ratio	Lower	Upper
43	100		
58	53.1	26.1	78.2

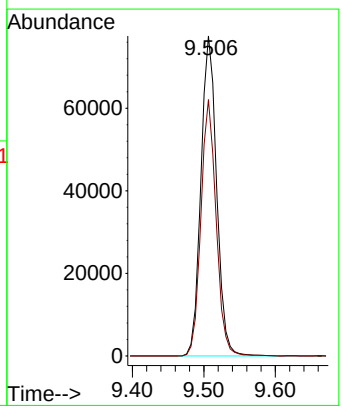


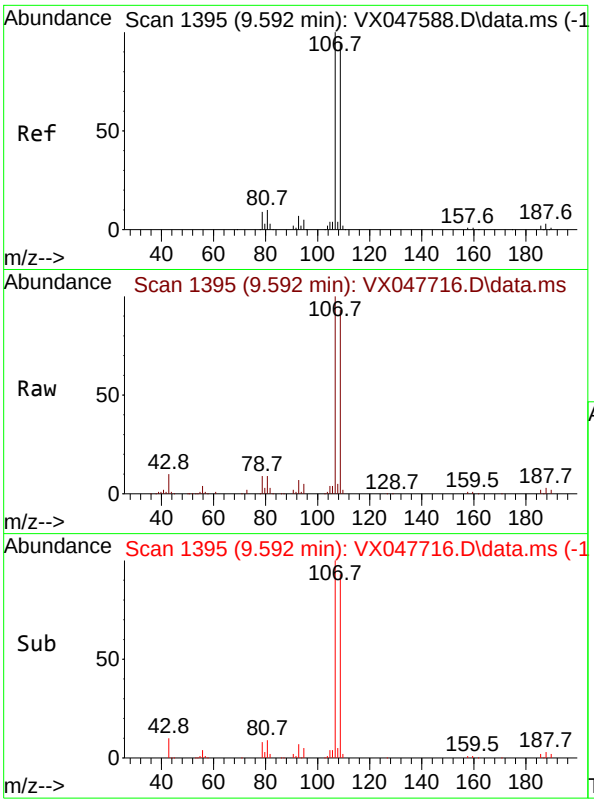


#60
Dibromochloromethane
Concen: 50.771 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:129 Resp: 118126

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2



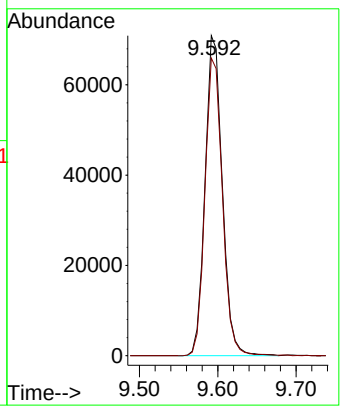


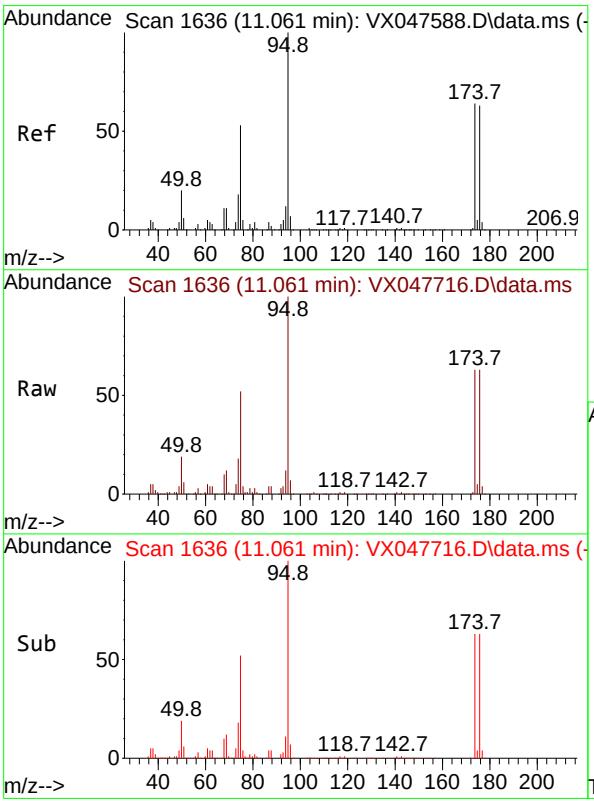
#61
1,2-Dibromoethane
Concen: 52.599 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:107 Resp: 108183

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.3	112.9

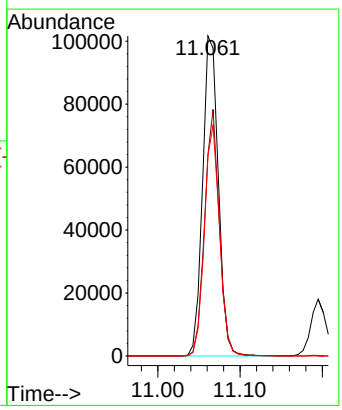


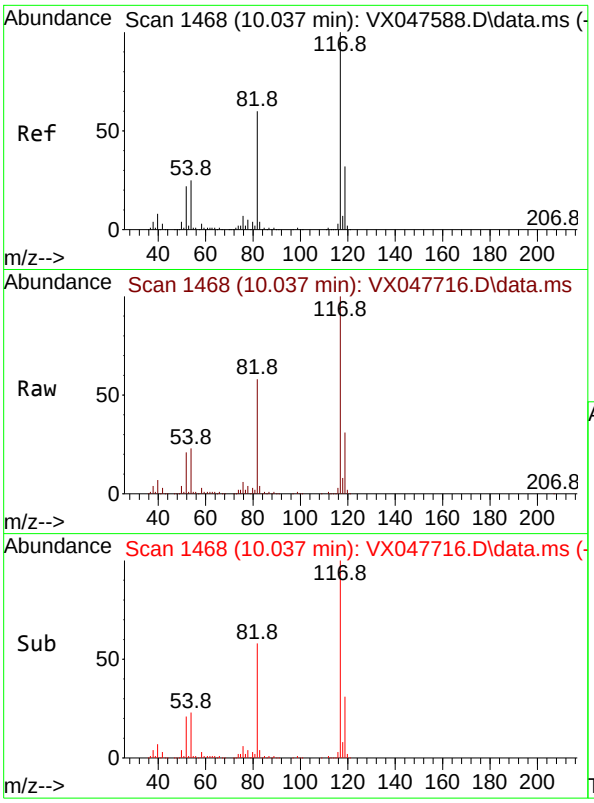


#62
4-Bromofluorobenzene
Concen: 53.798 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 95 Resp: 135304

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	141.6
176	69.3	0.0	138.4



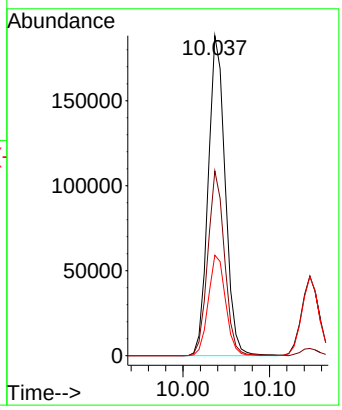


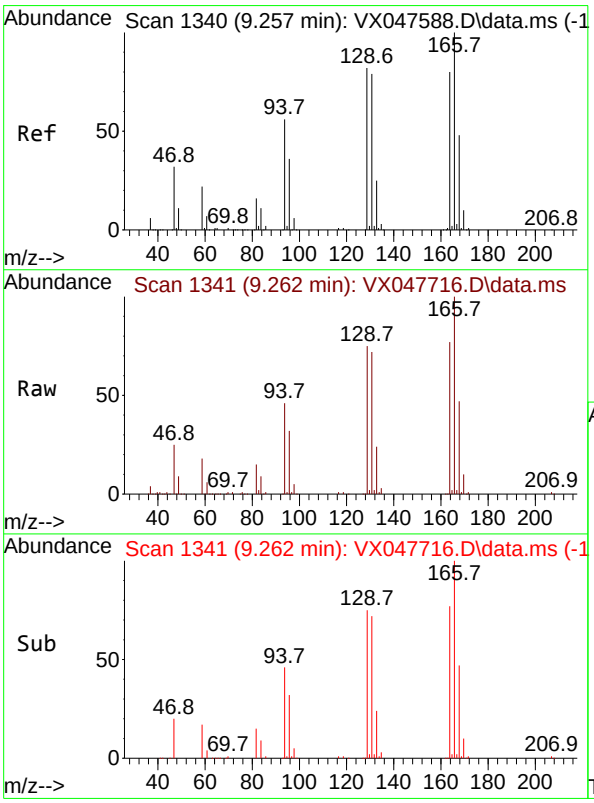
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:117 Resp: 256927

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	31.4	25.2	37.8

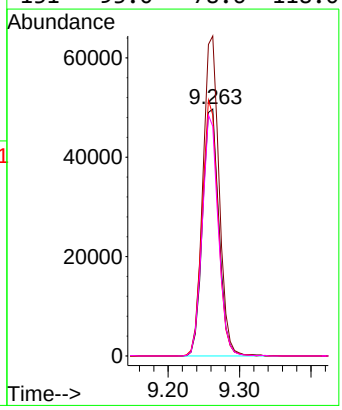


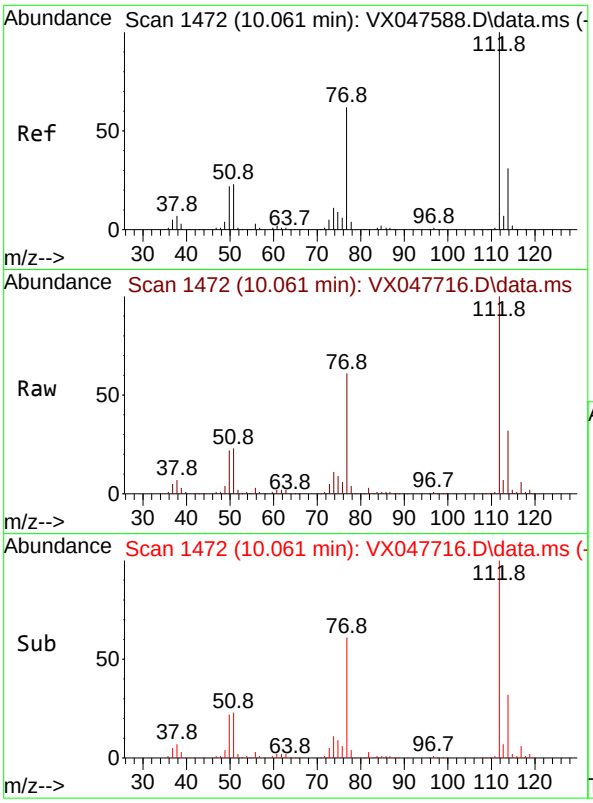


#64
Tetrachloroethene
Concen: 46.898 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:164 Resp: 78549

Ion	Ratio	Lower	Upper
164	100		
166	129.6	100.2	150.2
129	97.6	81.8	122.6
131	93.0	78.6	118.0



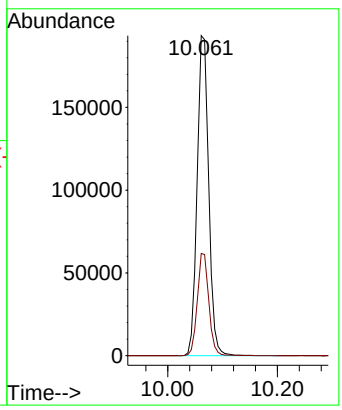


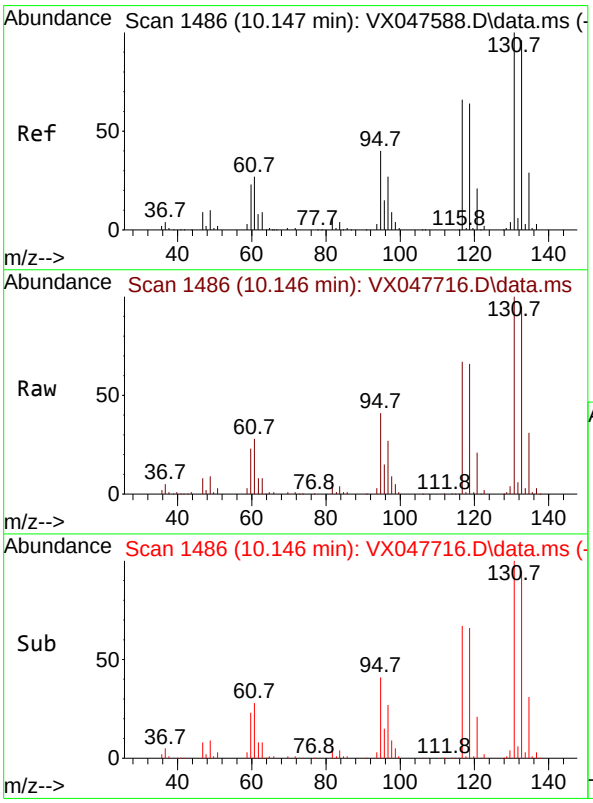
#65
Chlorobenzene
Concen: 48.661 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:112 Resp: 284028

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7

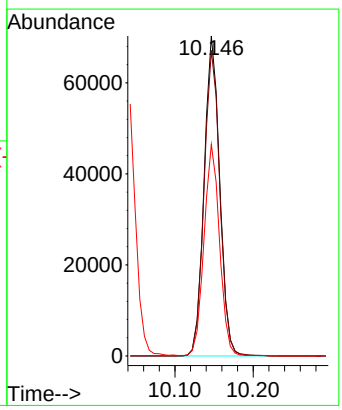


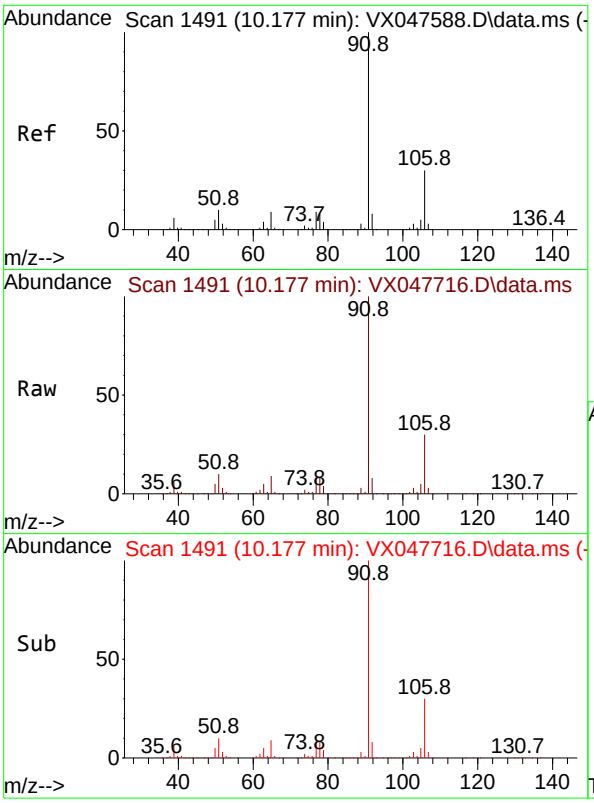


#66
1,1,1,2-Tetrachloroethane
Concen: 48.198 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:131 Resp: 97079

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	66.1	32.0	96.0



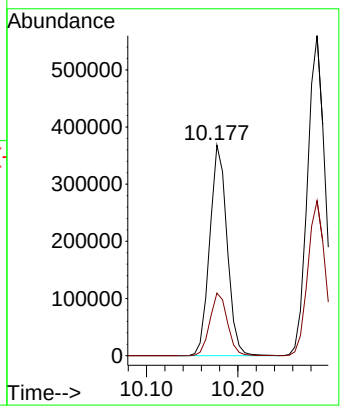


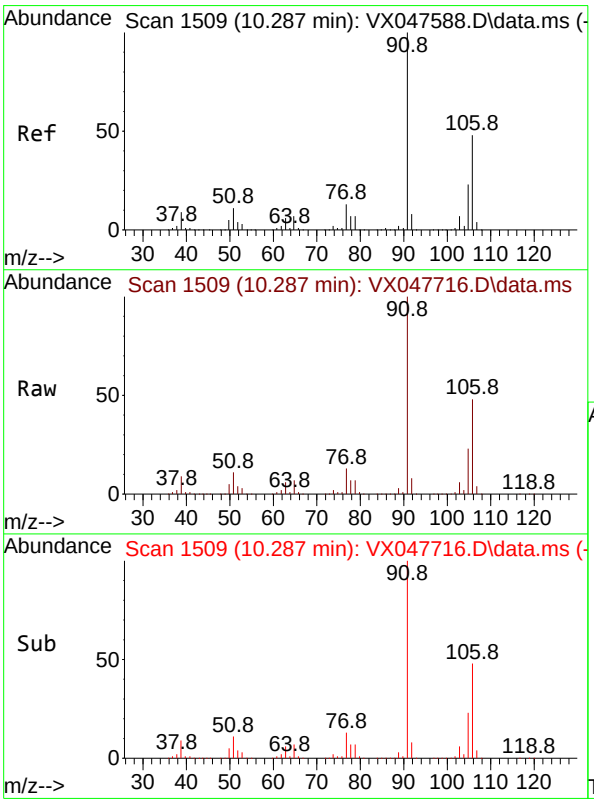
#67
Ethyl Benzene
Concen: 48.136 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 91 Resp: 484782

Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.3	36.5

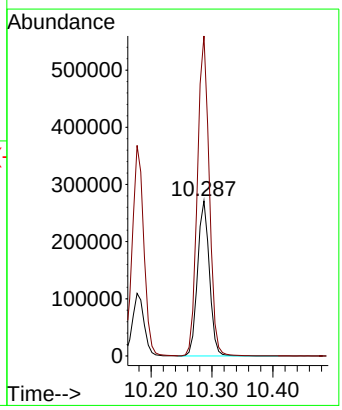


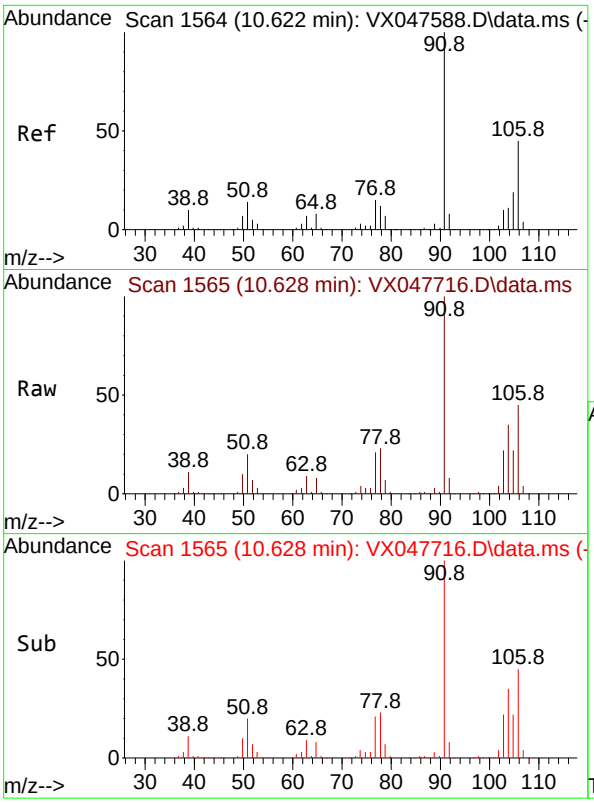


#68
m/p-Xylenes
Concen: 97.291 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:106 Resp: 364701

Ion	Ratio	Lower	Upper
106	100		
91	207.0	167.8	251.8



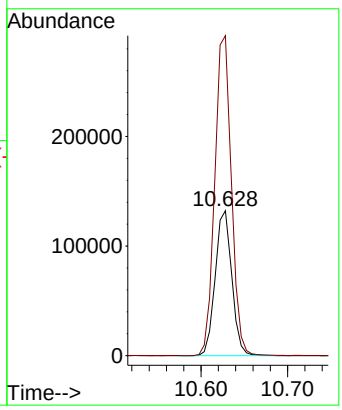


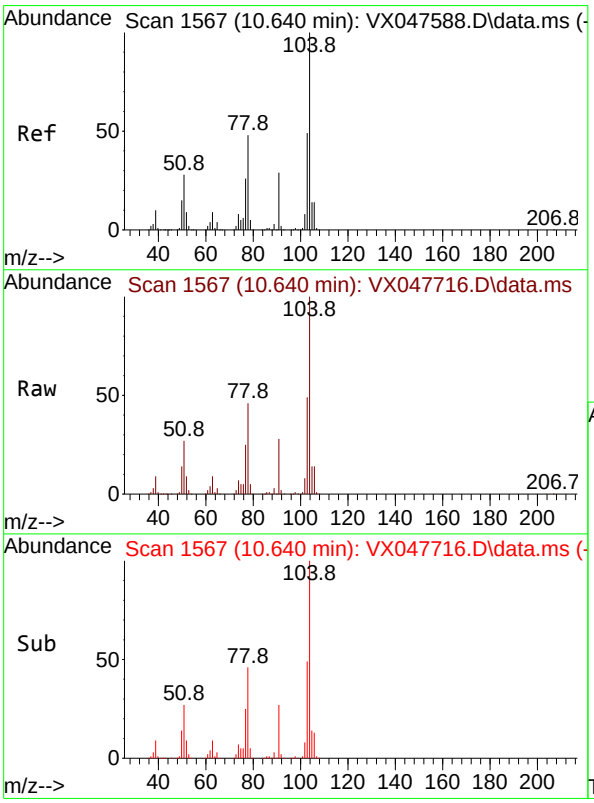
#69
o-Xylene
Concen: 48.532 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:106 Resp: 175962

Ion	Ratio	Lower	Upper
106	100		
91	221.7	111.1	333.4

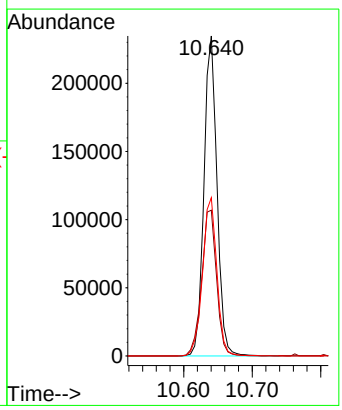


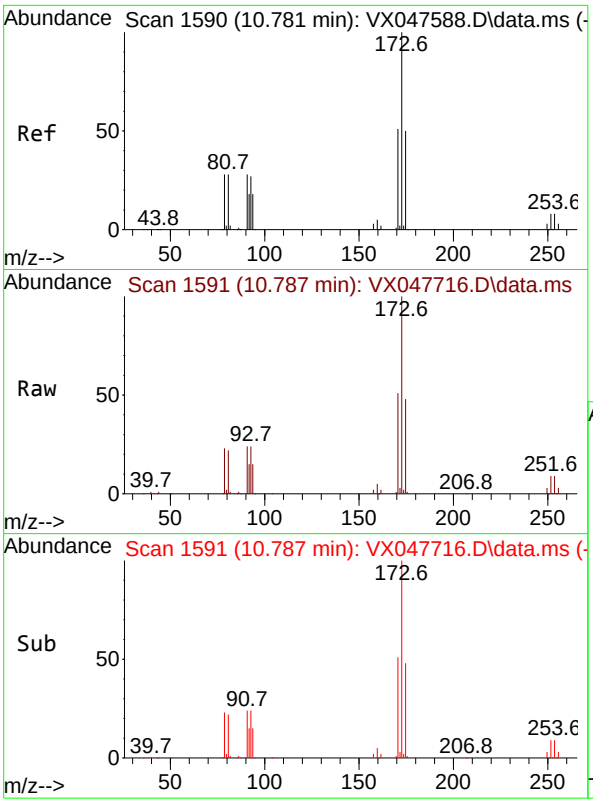


#70
Styrene
Concen: 48.980 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:104 Resp: 311170

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.1	64.7
103	54.4	43.1	64.7



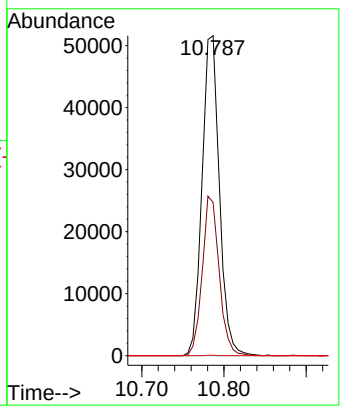


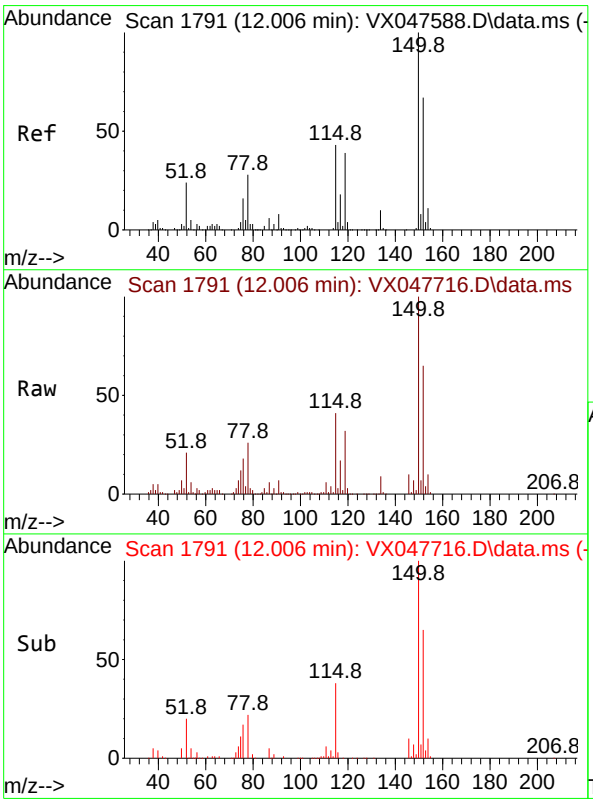
#71
Bromoform
Concen: 50.286 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:173 Resp: 75628

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.9	74.6
254	0.1	0.1	0.1

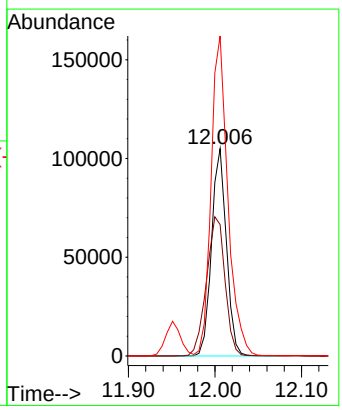


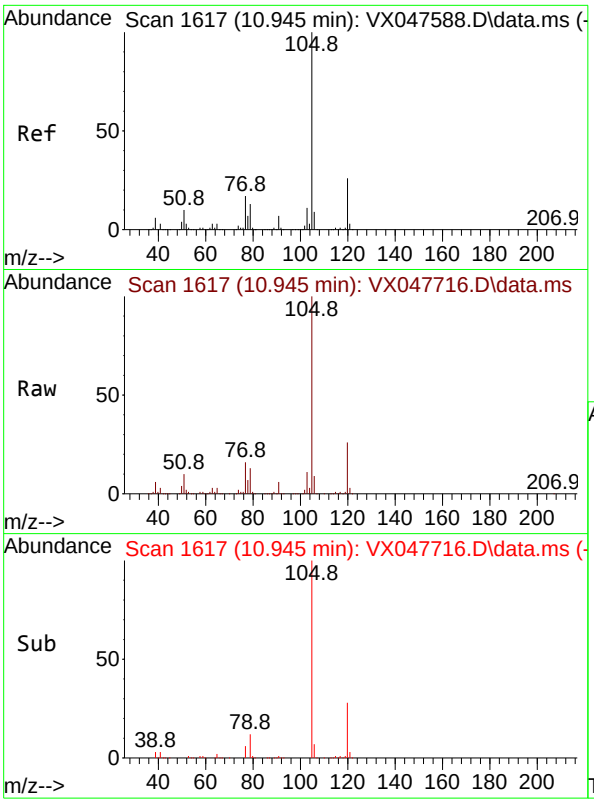


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:152 Resp: 125295

Ion	Ratio	Lower	Upper
152	100		
115	83.8	44.9	134.5
150	174.8	0.0	352.0



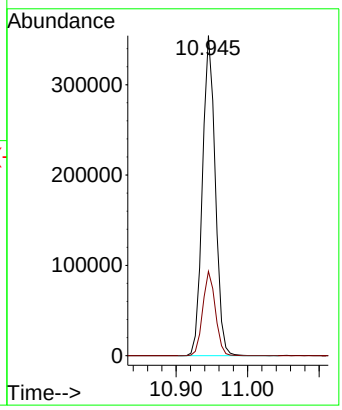


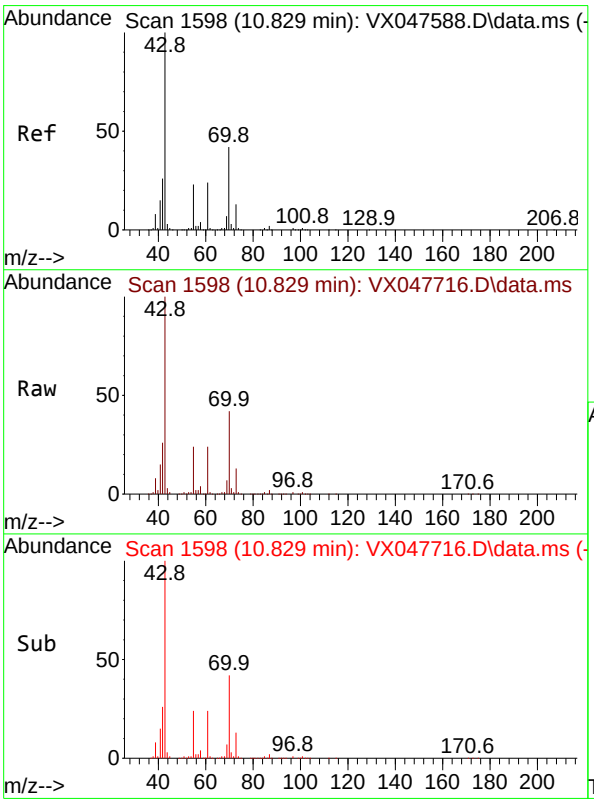
#73
Isopropylbenzene
Concen: 46.230 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:105 Resp: 440376

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

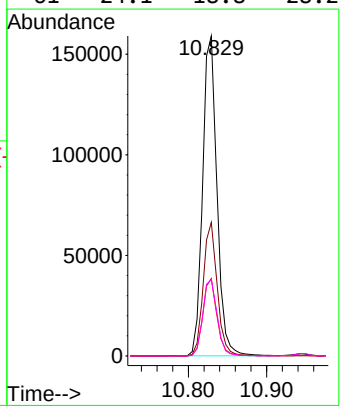


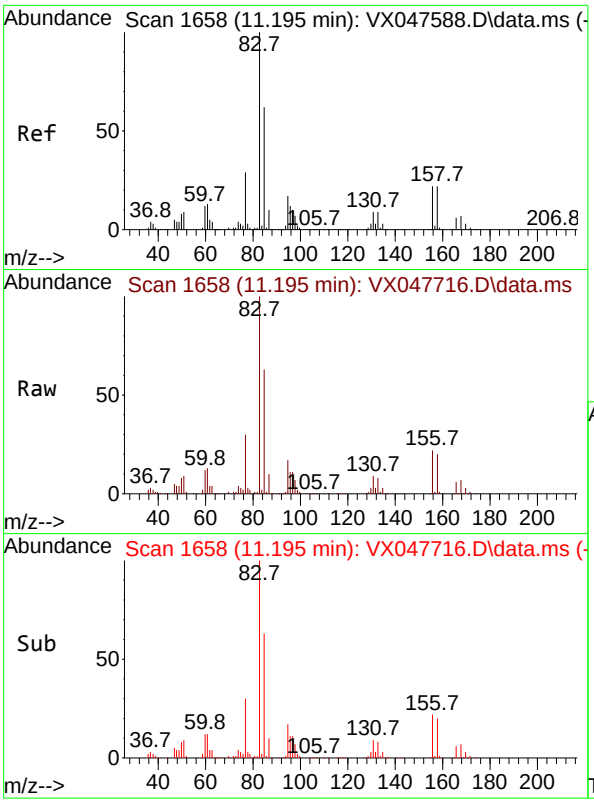


#74
N-amyl acetate
Concen: 46.415 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 43 Resp: 201619

Ion	Ratio	Lower	Upper
43	100		
70	40.8	32.0	48.0
55	23.9	18.9	28.3
61	24.1	18.8	28.2



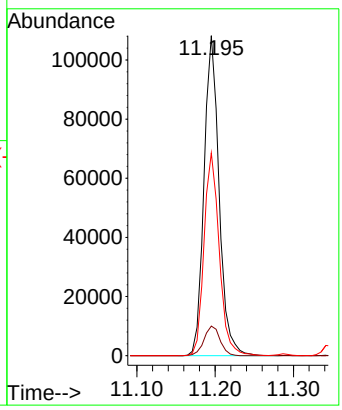


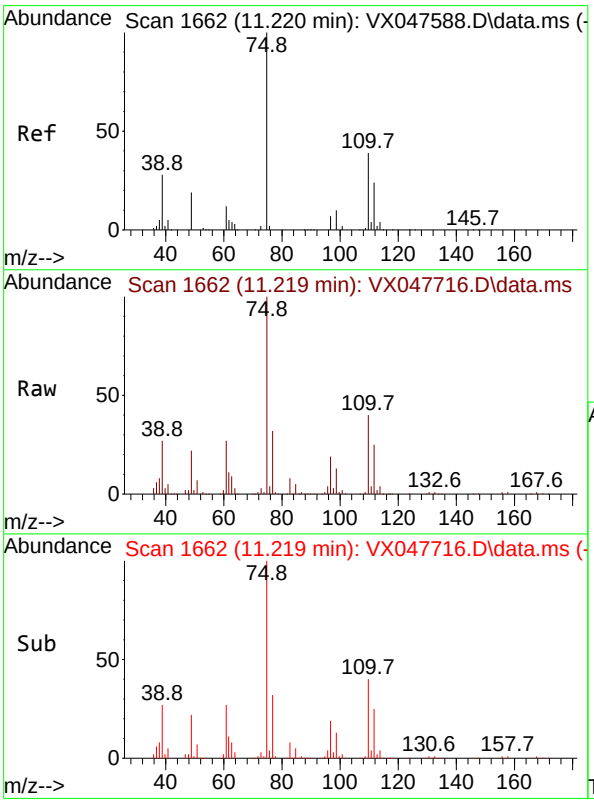
#75
1,1,2,2-Tetrachloroethane
Concen: 50.065 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 83 Resp: 144289

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.0	31.6	95.0

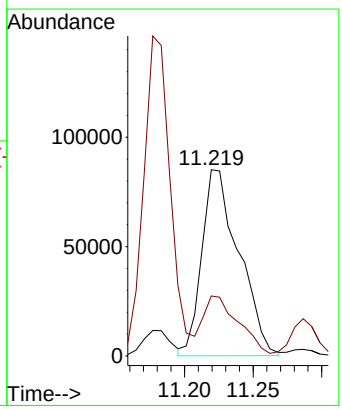


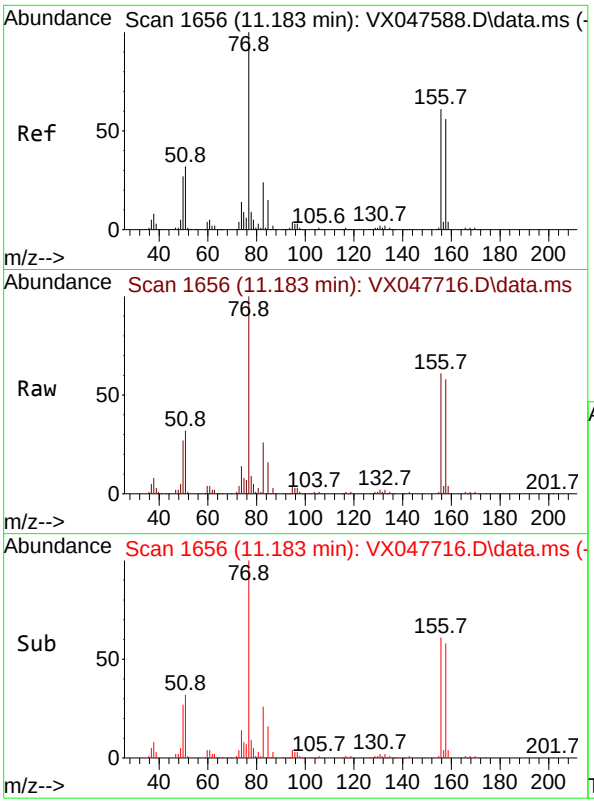


#76
1,2,3-Trichloropropane
Concen: 63.236 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 75 Resp: 160418

Ion	Ratio	Lower	Upper
75	100		
77	30.6	18.8	56.4



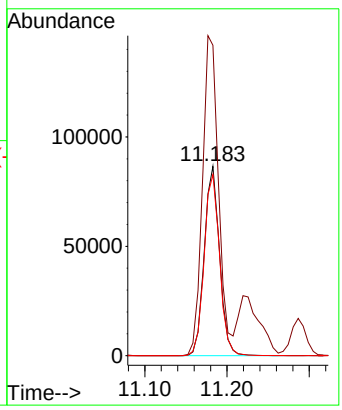


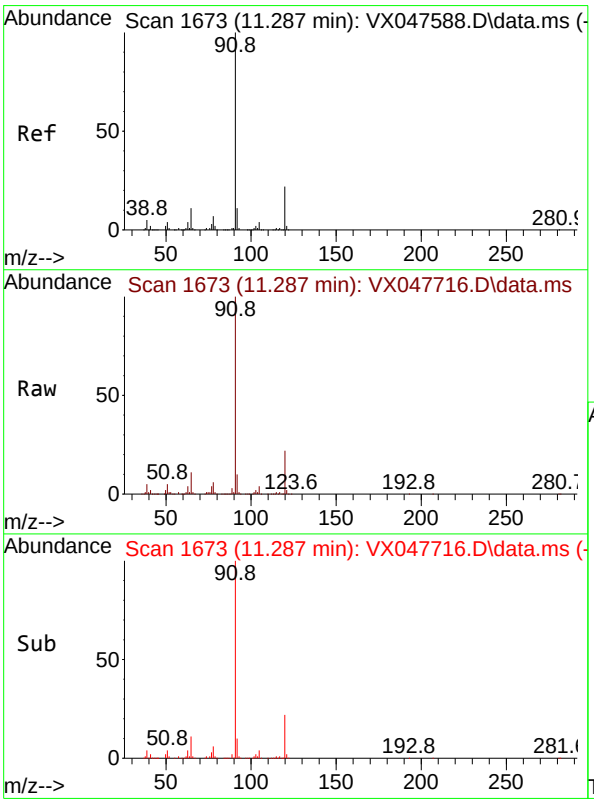
#77
Bromobenzene
Concen: 47.588 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:156 Resp: 111648

Ion	Ratio	Lower	Upper
156	100		
77	178.3	89.7	269.1
158	97.2	47.9	143.6

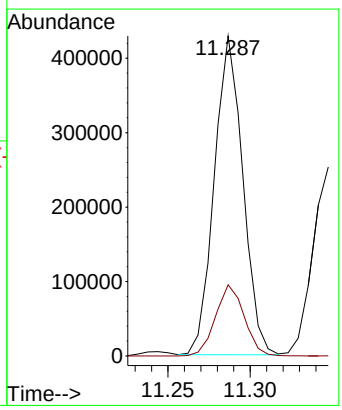


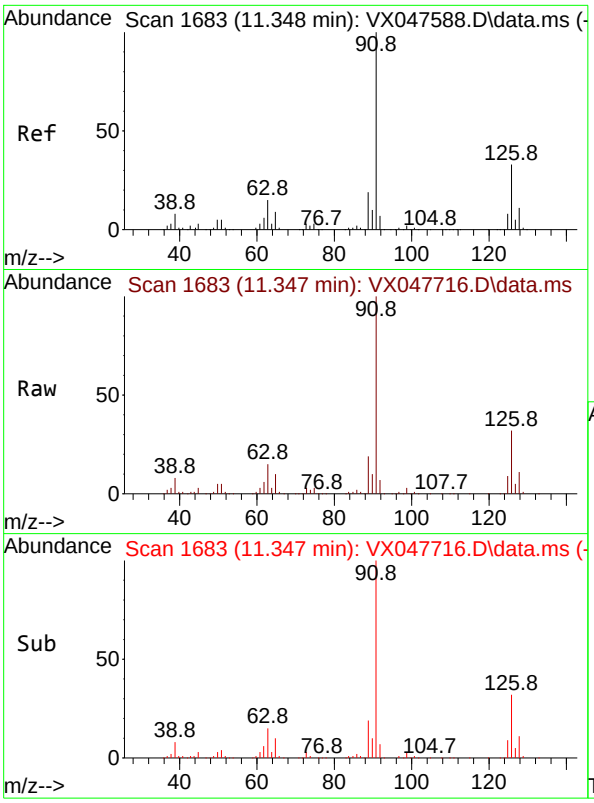


#78
n-propylbenzene
Concen: 45.887 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 91 Resp: 516715

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



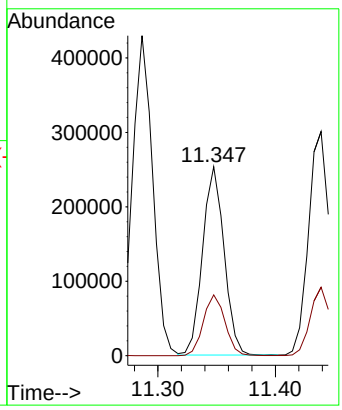


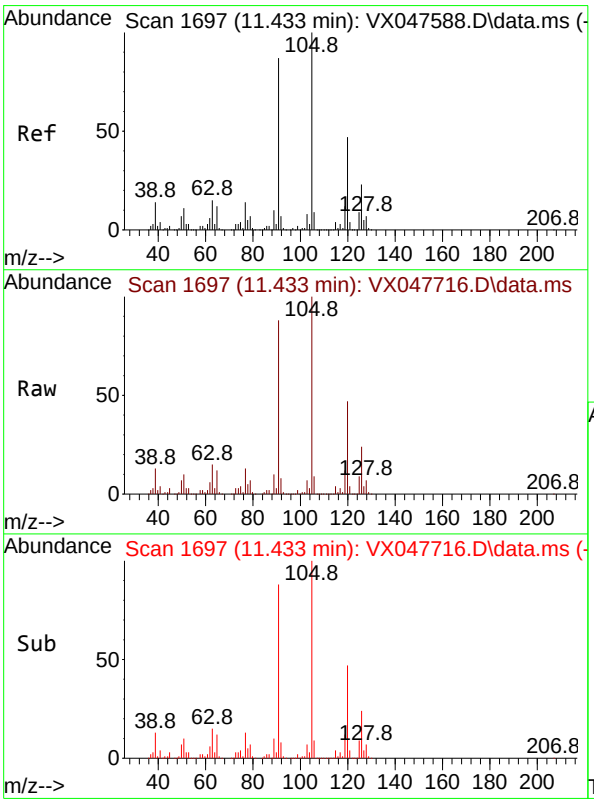
#79
2-Chlorotoluene
Concen: 46.712 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 91 Resp: 322164

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3

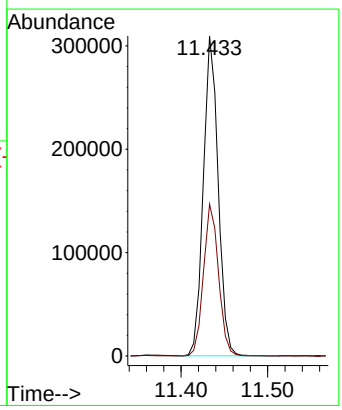


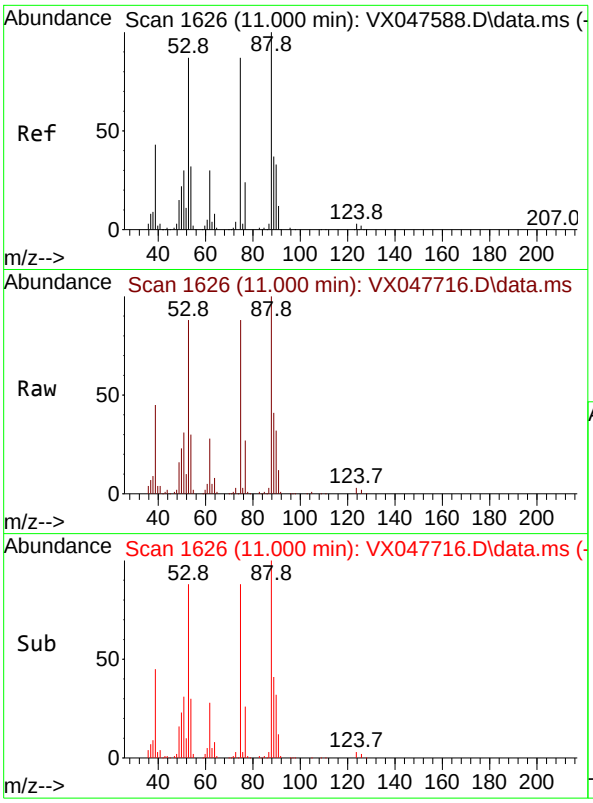


#80
1,3,5-Trimethylbenzene
Concen: 46.952 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:105 Resp: 367456

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.6	70.8



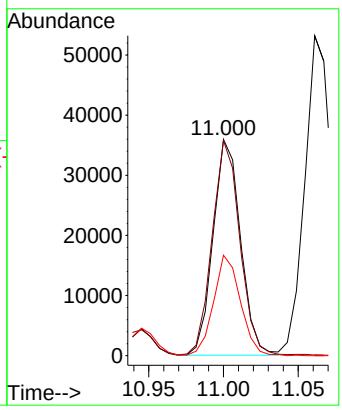


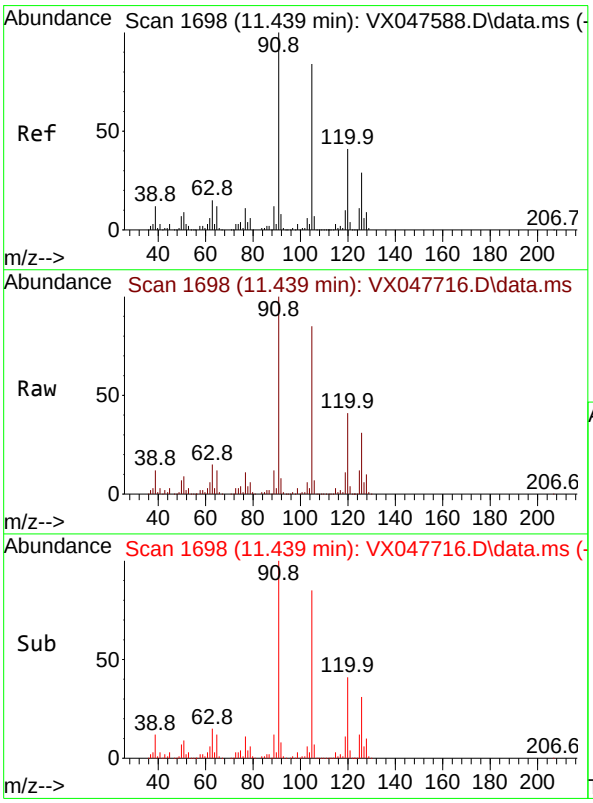
#81
trans-1,4-Dichloro-2-butene
Concen: 45.992 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 75 Resp: 45752

Ion	Ratio	Lower	Upper
75	100		
53	101.7	83.4	125.2
89	45.7	36.3	54.5

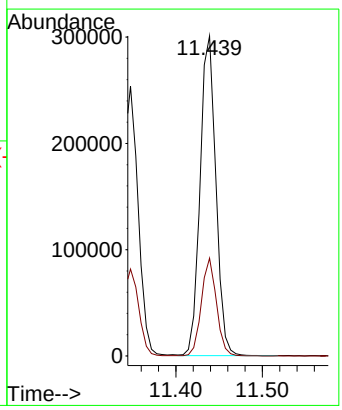


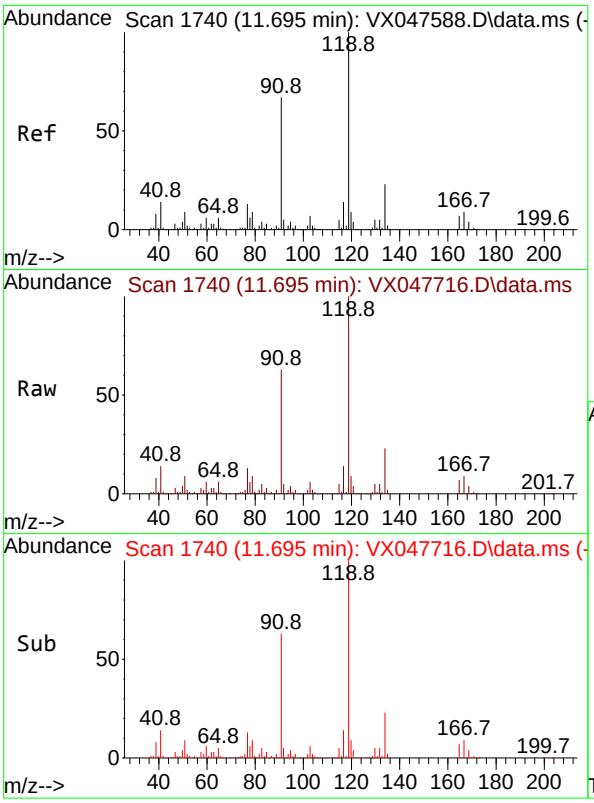


#82
4-Chlorotoluene
Concen: 46.702 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 91 Resp: 380416

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.2	42.6



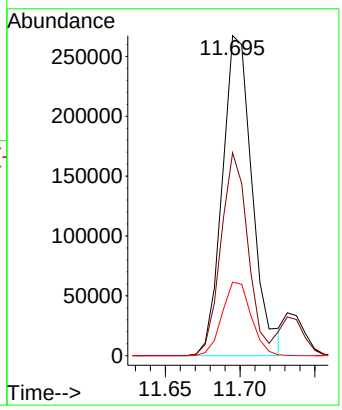


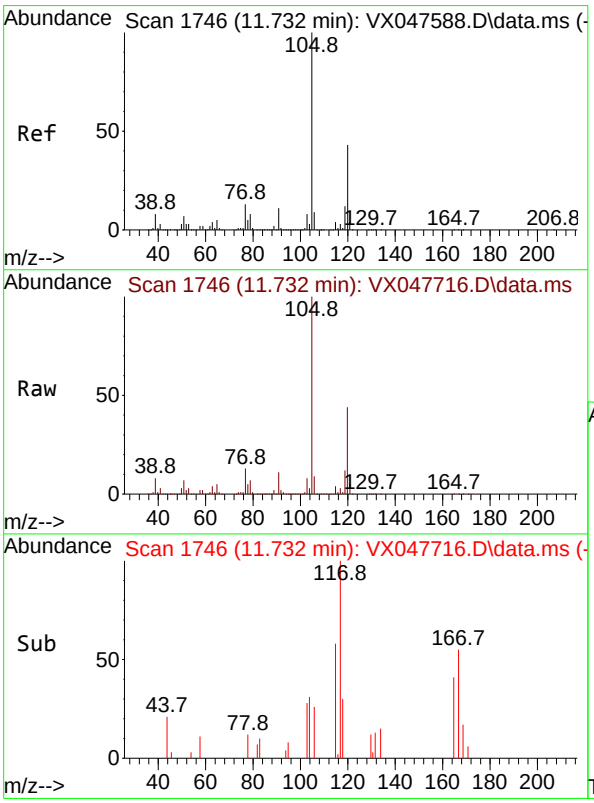
#83
tert-Butylbenzene
Concen: 46.442 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:119 Resp: 372073

Ion	Ratio	Lower	Upper
119	100		
91	57.3	29.6	88.8
134	22.3	11.0	33.0

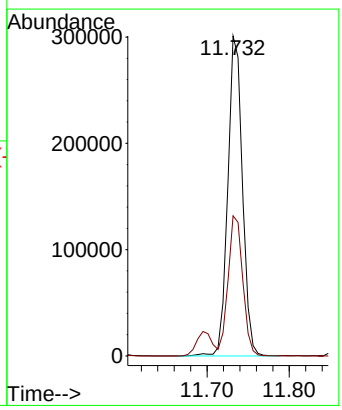


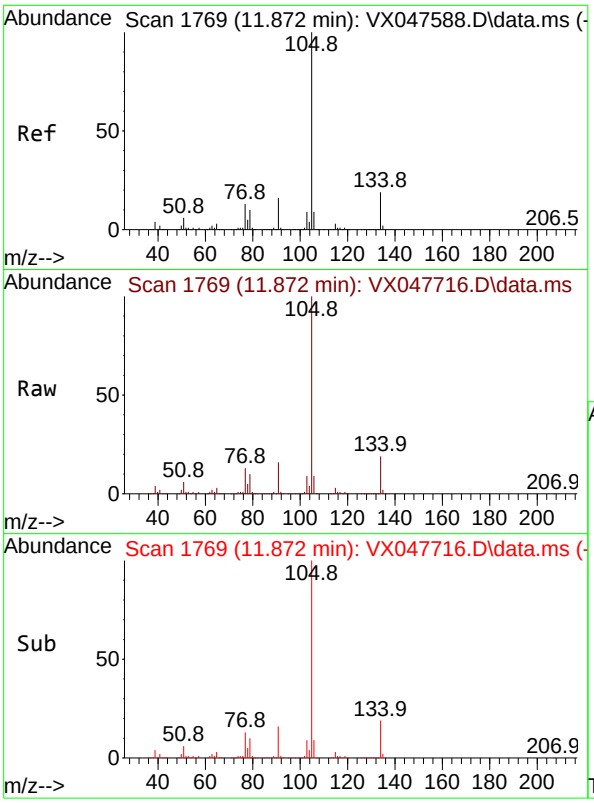


#84
1,2,4-Trimethylbenzene
Concen: 46.849 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:105 Resp: 371720

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.1



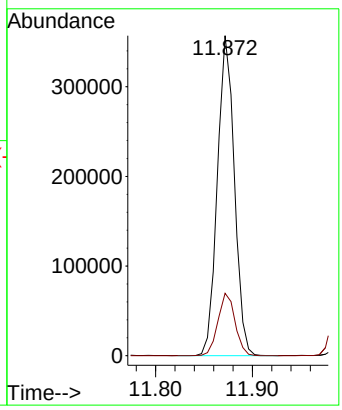


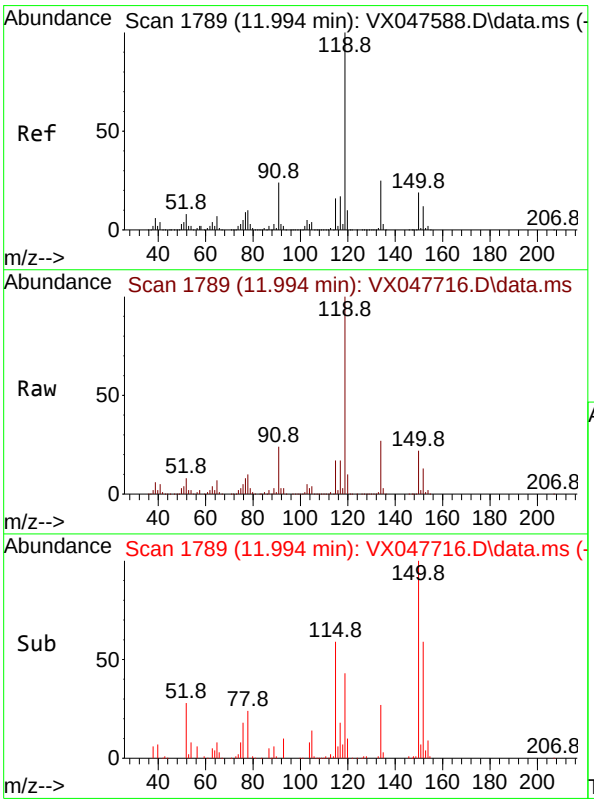
#85
sec-Butylbenzene
Concen: 45.710 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:105 Resp: 434981

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

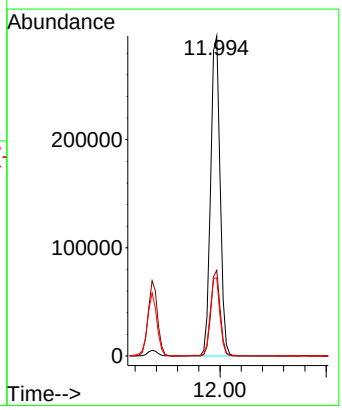


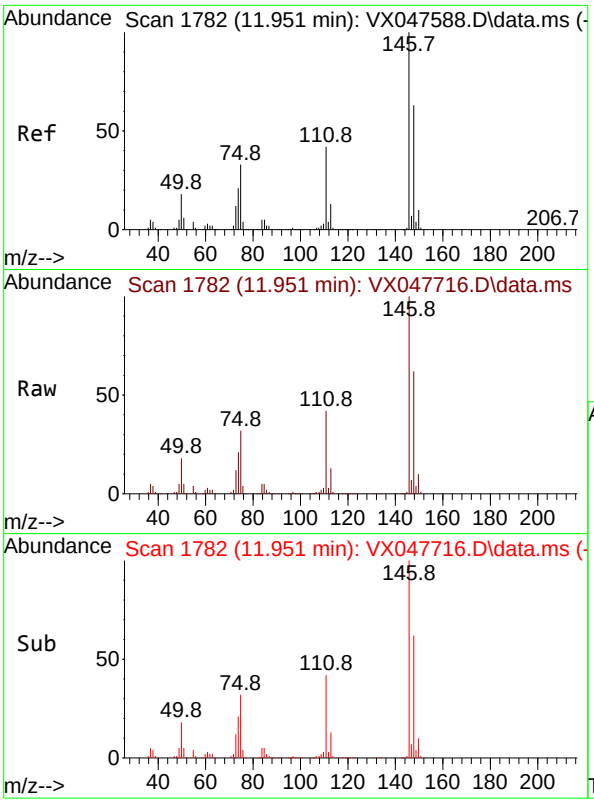


#86
p-Isopropyltoluene
Concen: 45.425 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:119 Resp: 365960

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.6	37.8
91	25.0	12.6	37.6



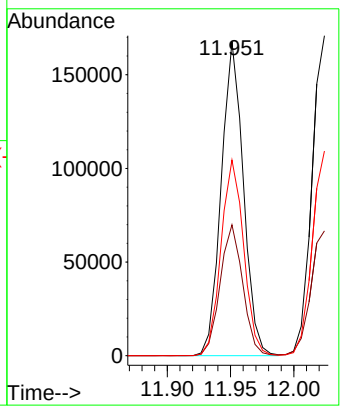


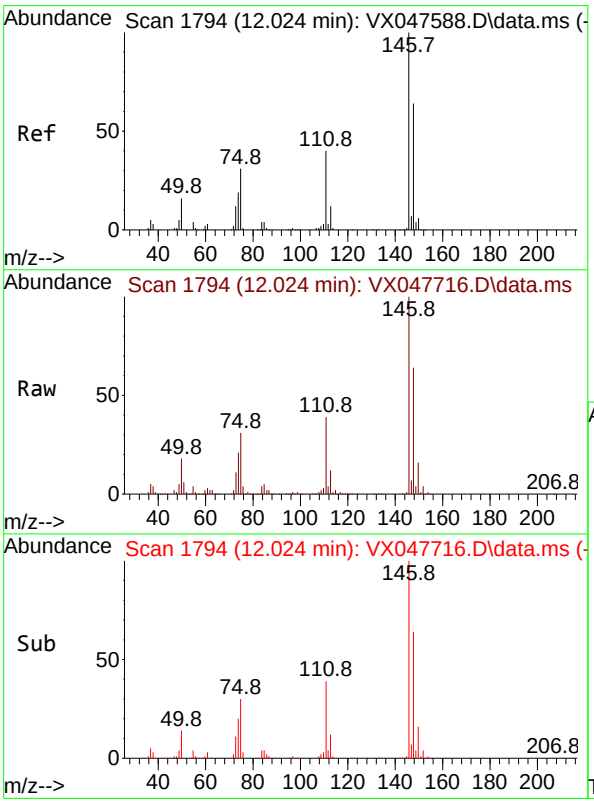
#87
1,3-Dichlorobenzene
Concen: 46.773 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:146 Resp: 203823

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.5	64.5
148	63.8	32.0	96.0

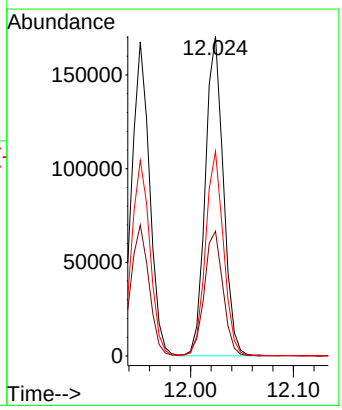


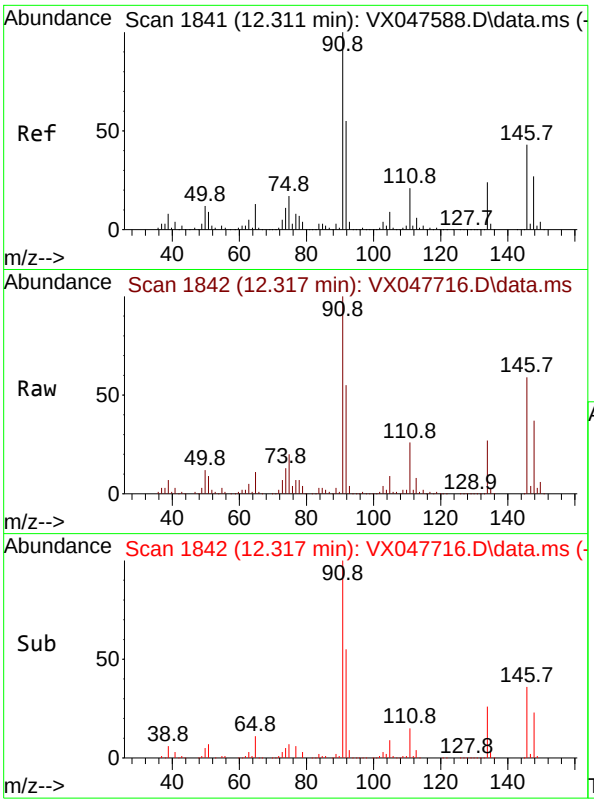


#88
1,4-Dichlorobenzene
Concen: 46.761 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:146 Resp: 209139

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.8	62.4
148	63.5	31.7	95.1



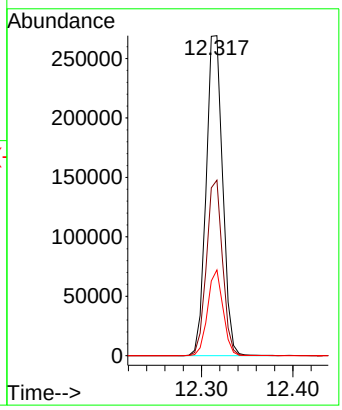


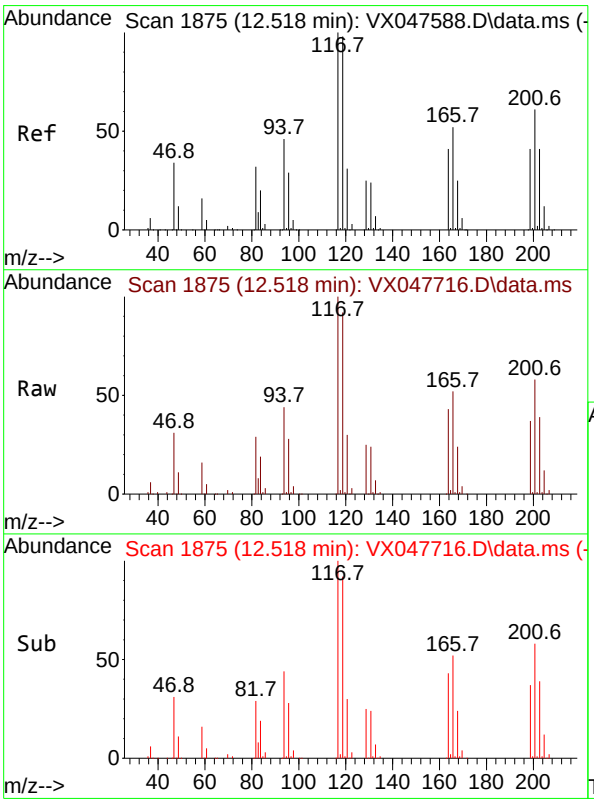
#89
n-Butylbenzene
Concen: 45.146 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion: 91 Resp: 336544

Ion	Ratio	Lower	Upper
91	100		
92	53.4	27.6	82.7
134	25.0	12.6	37.8

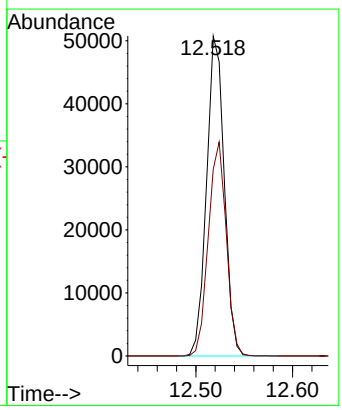


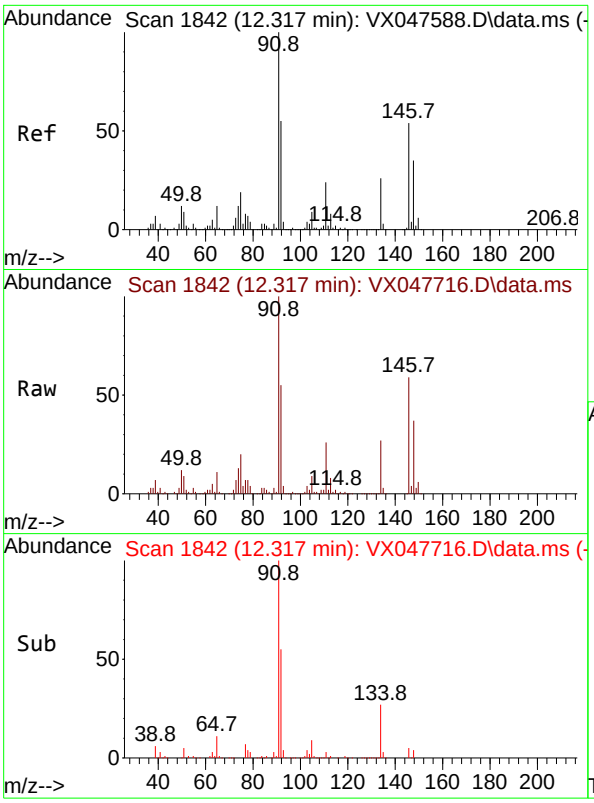


#90
Hexachloroethane
Concen: 45.775 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:117 Resp: 64746

Ion	Ratio	Lower	Upper
117	100		
201	67.4	34.2	102.5



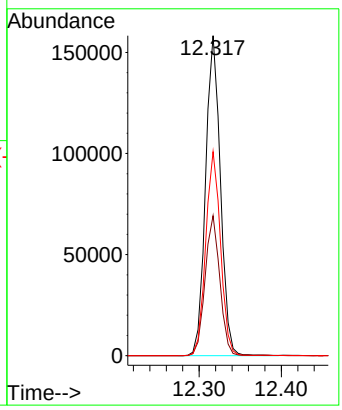


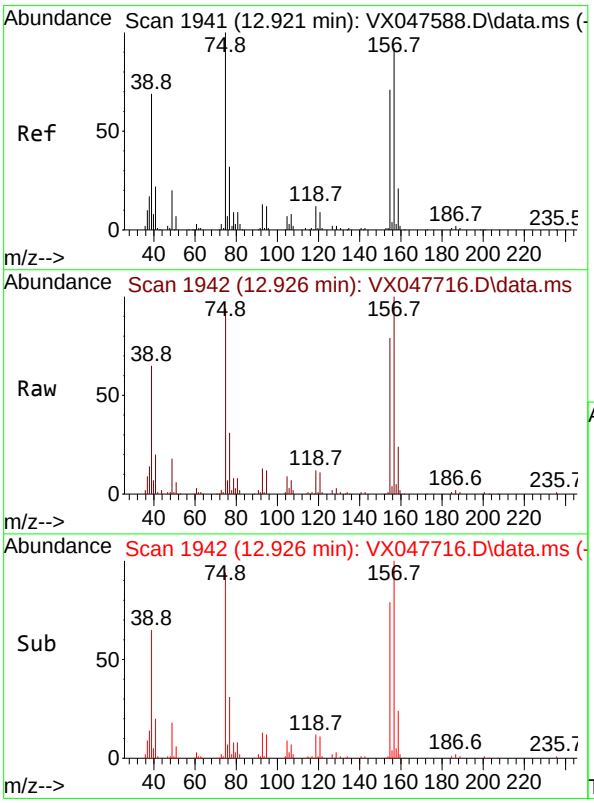
#91
1,2-Dichlorobenzene
Concen: 47.743 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:146 Resp: 198212

Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.2	66.6
148	63.6	31.8	95.4

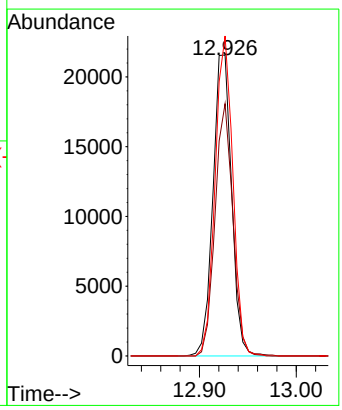


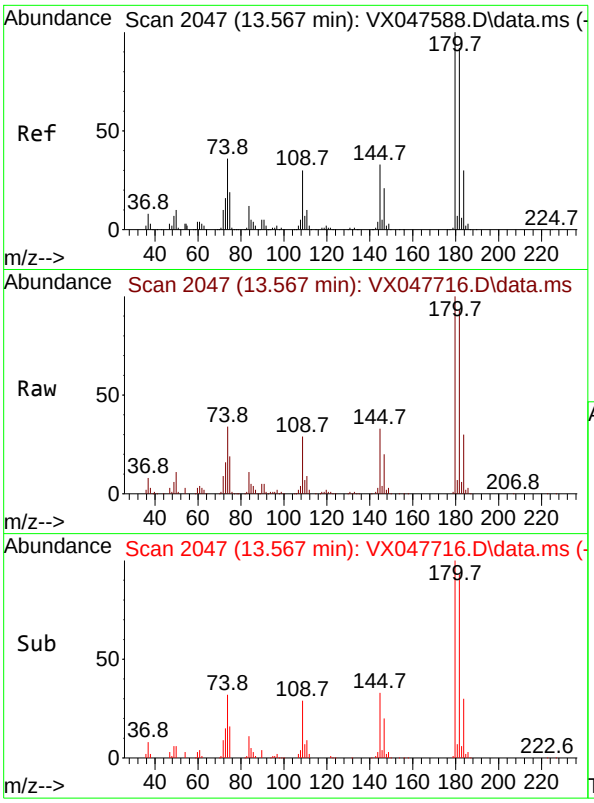


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.514 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion: 75 Resp: 28891

Ion	Ratio	Lower	Upper
75	100		
155	80.0	37.7	113.1
157	100.9	49.8	149.4



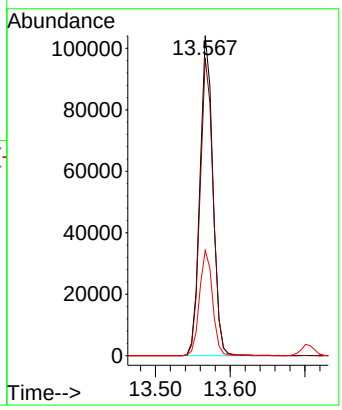


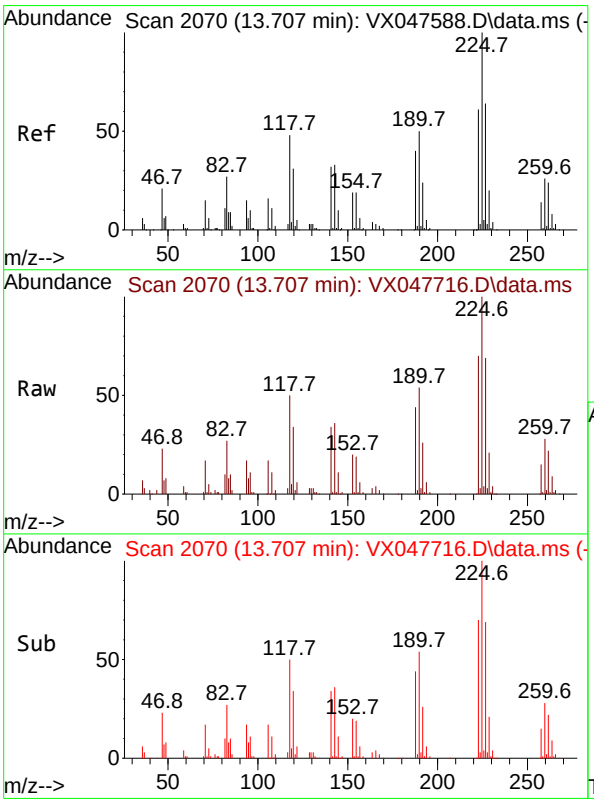
#93
1,2,4-Trichlorobenzene
Concen: 46.147 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:180 Resp: 124512

Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.6	139.8
145	33.1	16.4	49.1

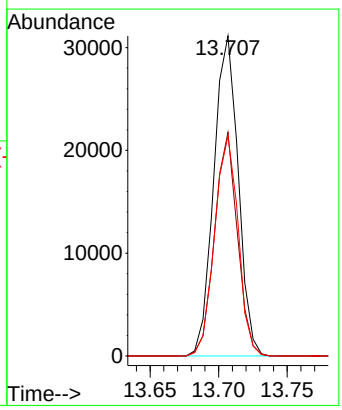


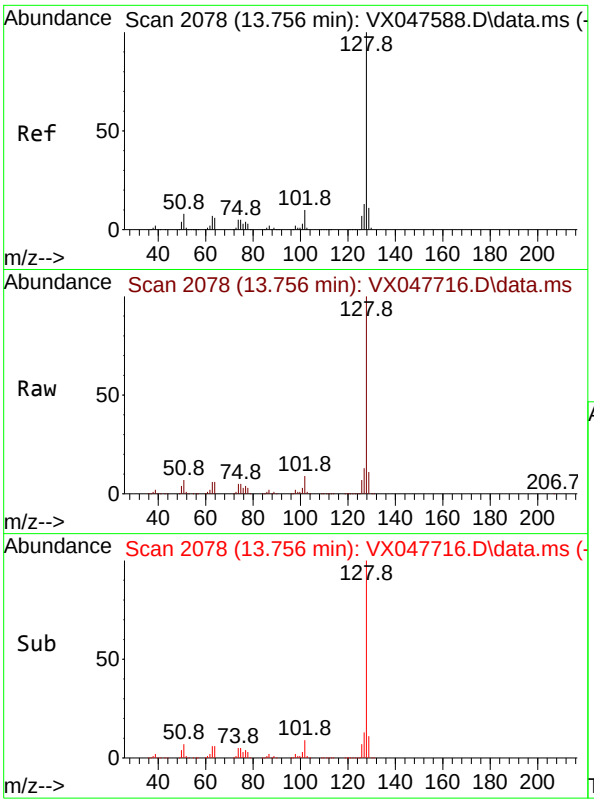


#94
Hexachlorobutadiene
Concen: 42.087 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:225 Resp: 38572

Ion	Ratio	Lower	Upper
225	100		
223	65.2	31.7	95.1
227	66.2	32.0	96.0



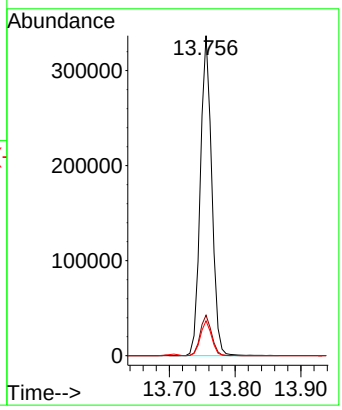


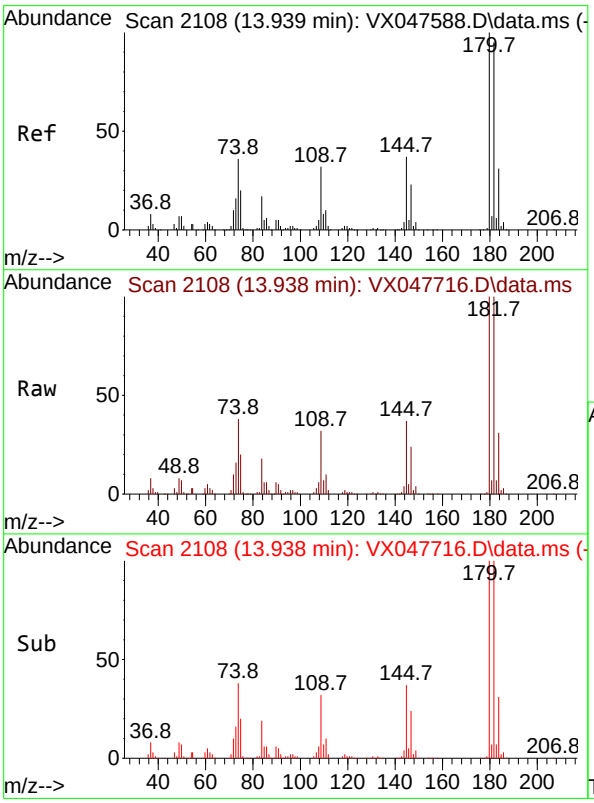
#95
Naphthalene
Concen: 49.503 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911MSD

Tgt Ion:128 Resp: 406725

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.7	8.8	13.2

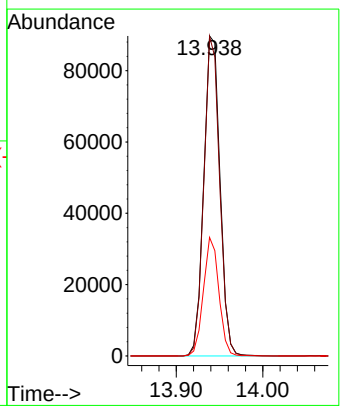




#96
1,2,3-Trichlorobenzene
Concen: 46.580 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047716.D
Acq: 22 Sep 2025 19:19

Tgt Ion:180 Resp: 116912

Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.6	142.8
145	35.3	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	151263	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	277250	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	250939	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	120316	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	131803	54.742	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.480%			
35) Dibromofluoromethane	5.373	113	102447	55.097	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.200%			
50) Toluene-d8	8.634	98	353835	54.996	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 110.000%			
62) 4-Bromofluorobenzene	11.061	95	135585	55.527	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	88566	56.543	ug/l	99
3) Chloromethane	1.300	50	110444	53.650	ug/l	98
4) Vinyl Chloride	1.380	62	107172	53.183	ug/l	99
5) Bromomethane	1.617	94	72614	56.826	ug/l	96
6) Chloroethane	1.697	64	70585	52.407	ug/l	99
7) Trichlorofluoromethane	1.898	101	150481	50.293	ug/l	99
8) Diethyl Ether	2.136	74	63484	51.867	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	88522	50.597	ug/l	99
10) Methyl Iodide	2.459	142	139955	51.292	ug/l	100
11) Tert butyl alcohol	2.946	59	70235	261.918	ug/l	100
12) 1,1-Dichloroethene	2.325	96	91283	50.793	ug/l	98
13) Acrolein	2.239	56	67239	272.101	ug/l	99
14) Allyl chloride	2.666	41	181689	48.993	ug/l	97
15) Acrylonitrile	3.056	53	278155	280.040	ug/l	99
16) Acetone	2.373	43	217175	207.448	ug/l	99
17) Carbon Disulfide	2.520	76	260128	52.873	ug/l	97
18) Methyl Acetate	2.703	43	128811	55.287	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	343603	52.375	ug/l	100
20) Methylene Chloride	2.788	84	113084	51.031	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	101088	52.246	ug/l	97
22) Diisopropyl ether	3.751	45	374276	52.076	ug/l #	80
23) Vinyl Acetate	3.715	43	1575430	273.882	ug/l	99
24) 1,1-Dichloroethane	3.605	63	197744	51.765	ug/l	100
25) 2-Butanone	4.544	43	337965	258.807	ug/l	99
26) 2,2-Dichloropropane	4.464	77	138210	43.525	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	123020	51.917	ug/l	98
28) Bromochloromethane	4.885	49	85726	51.404	ug/l	99
29) Tetrahydrofuran	4.995	42	215954	274.899	ug/l	99
30) Chloroform	5.080	83	200652	51.979	ug/l	97
31) Cyclohexane	5.464	56	157545	49.517	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	167268	51.085	ug/l	99
36) 1,1-Dichloropropene	5.684	75	130436	48.007	ug/l	99
37) Ethyl Acetate	4.702	43	147890	50.836	ug/l	98
38) Carbon Tetrachloride	5.665	117	139363	47.209	ug/l	94
39) Methylcyclohexane	7.366	83	149612	48.510	ug/l	98
40) Benzene	6.031	78	419576	50.844	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	83185	55.388	ug/l	96
42) 1,2-Dichloroethane	6.074	62	155471	49.515	ug/l	98
43) Isopropyl Acetate	6.324	43	249793	52.355	ug/l	99
44) Trichloroethene	7.110	130	103766	52.011	ug/l	97
45) 1,2-Dichloropropane	7.415	63	108998	51.582	ug/l	100
46) Dibromomethane	7.568	93	79231	51.526	ug/l	98
47) Bromodichloromethane	7.805	83	160815	50.680	ug/l	99
48) Methyl methacrylate	7.677	41	124008	52.179	ug/l	98
49) 1,4-Dioxane	7.647	88	31911	1328.639	ug/l	97
51) 4-Methyl-2-Pentanone	8.561	43	721472	272.732	ug/l	100
52) Toluene	8.702	92	257025	50.554	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	165158	51.028	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	176564	51.038	ug/l	99
55) 1,1,2-Trichloroethane	9.134	97	102388	52.227	ug/l	99
56) Ethyl methacrylate	9.104	69	166501	54.080	ug/l	97
57) 1,3-Dichloropropane	9.293	76	179432	53.280	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	385340	261.171	ug/l	99
59) 2-Hexanone	9.415	43	503551	265.041	ug/l	99
60) Dibromochloromethane	9.506	129	118732	52.563	ug/l	98
61) 1,2-Dibromoethane	9.592	107	107185	53.678	ug/l	100
64) Tetrachloroethene	9.262	164	79987	48.896	ug/l	95
65) Chlorobenzene	10.067	112	286551	50.265	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.146	131	99248	50.451	ug/l	99
67) Ethyl Benzene	10.177	91	489716	49.786	ug/l	99
68) m/p-Xylenes	10.287	106	369200	100.842	ug/l	98
69) o-Xylene	10.628	106	179991	50.827	ug/l	98
70) Styrene	10.640	104	316706	51.041	ug/l	98
71) Bromoform	10.787	173	75426	51.349	ug/l	99
73) Isopropylbenzene	10.945	105	449995	49.195	ug/l	99
74) N-amyl acetate	10.829	43	222470	53.334	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	145865	52.707	ug/l	99
76) 1,2,3-Trichloropropane	11.225	75	163849	67.261	ug/l	90
77) Bromobenzene	11.183	156	114639	50.885	ug/l	97
78) n-propylbenzene	11.286	91	529287	48.949	ug/l	100
79) 2-Chlorotoluene	11.347	91	323780	48.889	ug/l	97
80) 1,3,5-Trimethylbenzene	11.433	105	370606	49.314	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	46938	49.137	ug/l	97
82) 4-Chlorotoluene	11.439	91	385744	49.316	ug/l	99
83) tert-Butylbenzene	11.695	119	375656	48.830	ug/l	99
84) 1,2,4-Trimethylbenzene	11.731	105	382206	50.163	ug/l	100
85) sec-Butylbenzene	11.872	105	450434	49.293	ug/l	99
86) p-Isopropyltoluene	11.994	119	374399	48.396	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	207129	49.499	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	209548	48.791	ug/l	99
89) n-Butylbenzene	12.317	91	342927	47.906	ug/l	99
90) Hexachloroethane	12.518	117	66519	48.974	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	202068	50.686	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	29730	53.060	ug/l	97
93) 1,2,4-Trichlorobenzene	13.567	180	127145	49.073	ug/l	98
94) Hexachlorobutadiene	13.707	225	40382	45.885	ug/l	98
95) Naphthalene	13.756	128	411593	52.169	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	122162	50.686	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

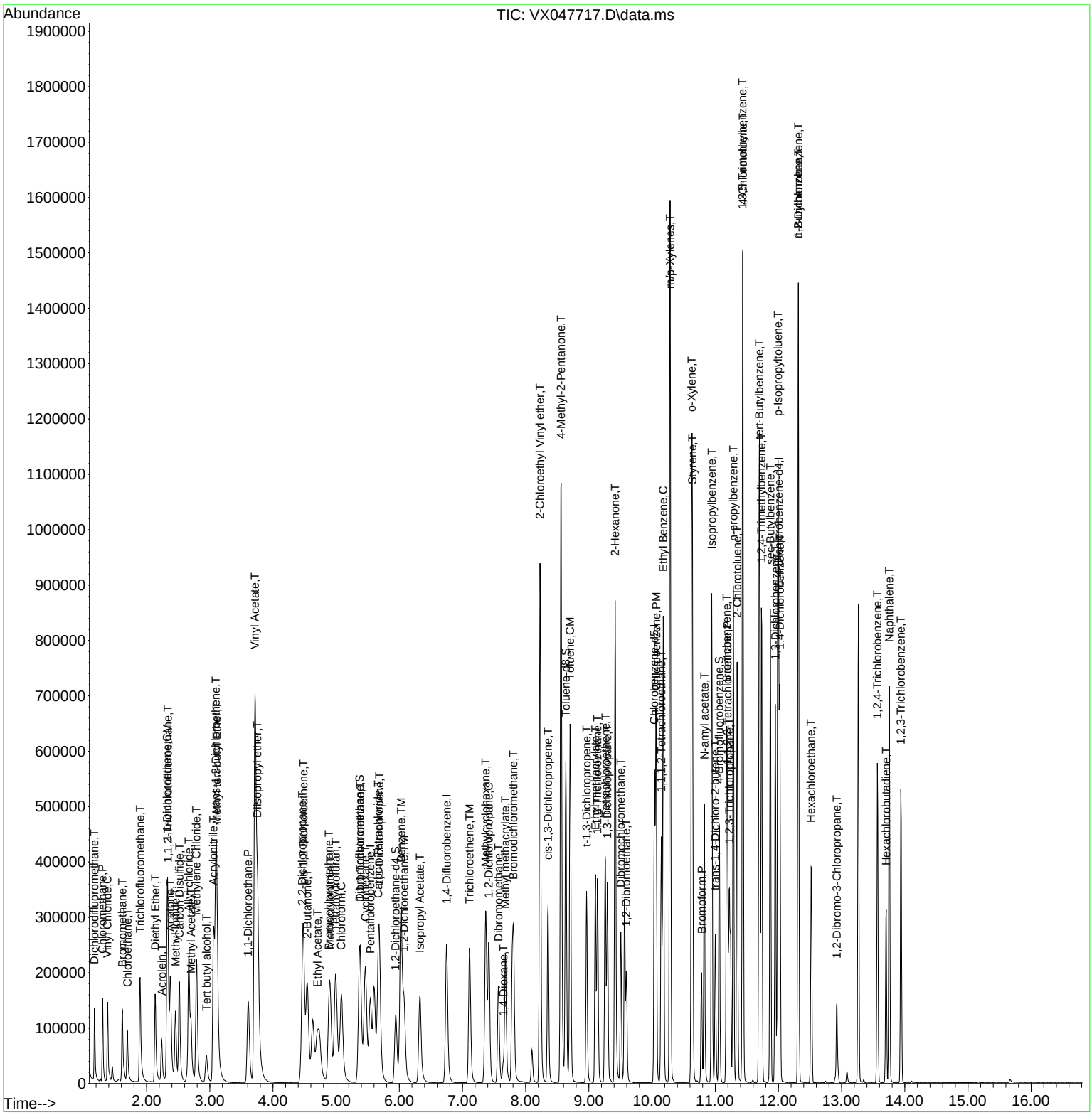
(#) = qualifier out of range (m) = manual integration (+) = signals summed

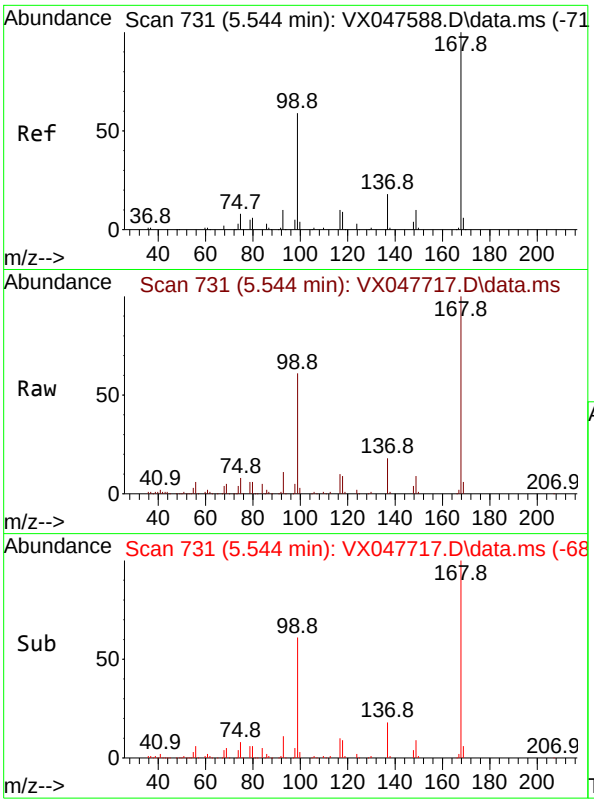
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092225\
Data File : VX047717.D
Acq On : 22 Sep 2025 19:40
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 23 01:43:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



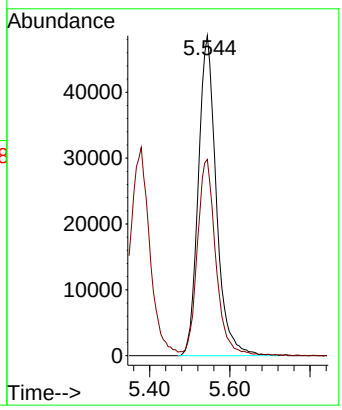


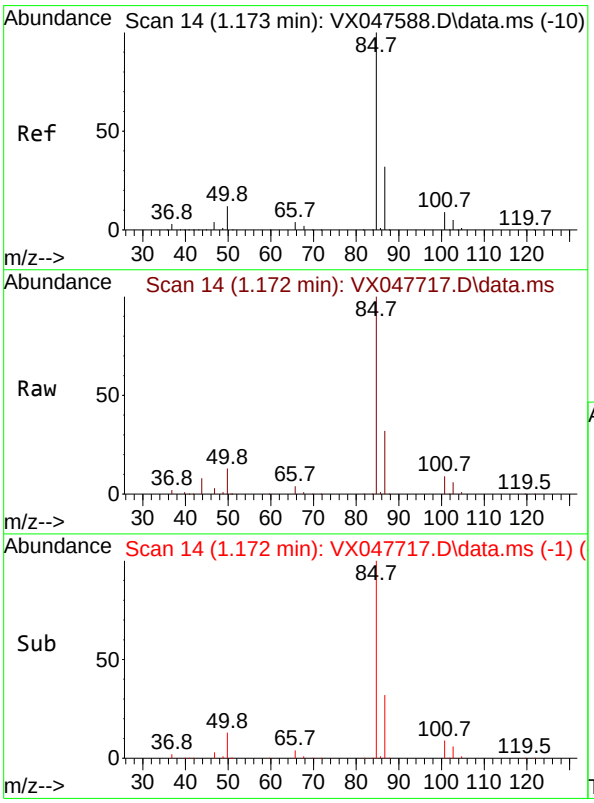
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 151263

Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2

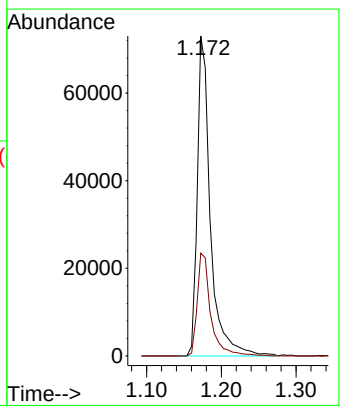


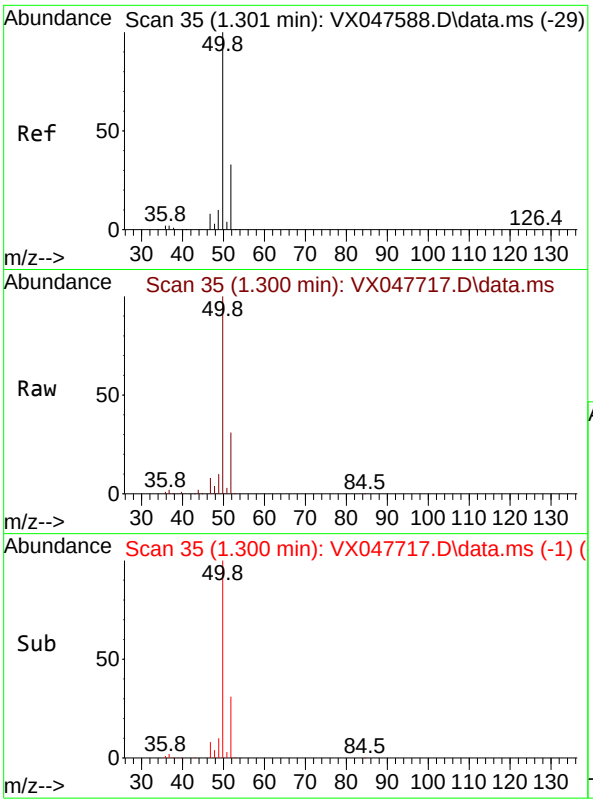


#2
Dichlorodifluoromethane
Concen: 56.543 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 85 Resp: 88566

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.8	47.3



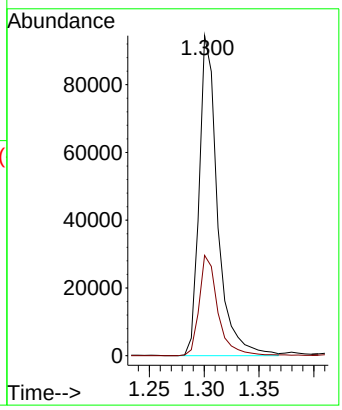


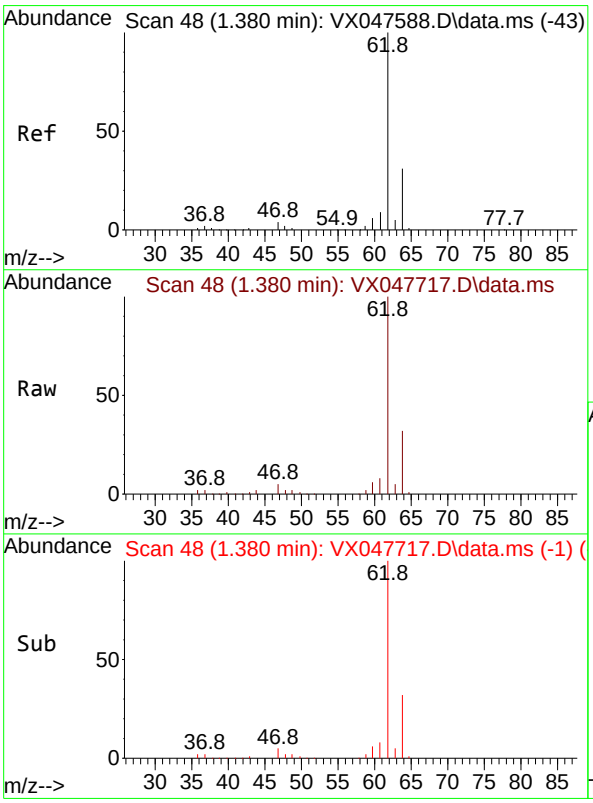
#3
Chloromethane
Concen: 53.650 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 110444

Ion	Ratio	Lower	Upper
50	100		
52	31.4	26.1	39.1

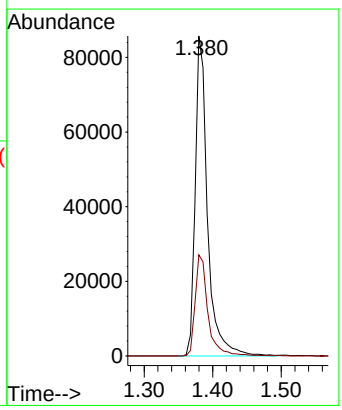


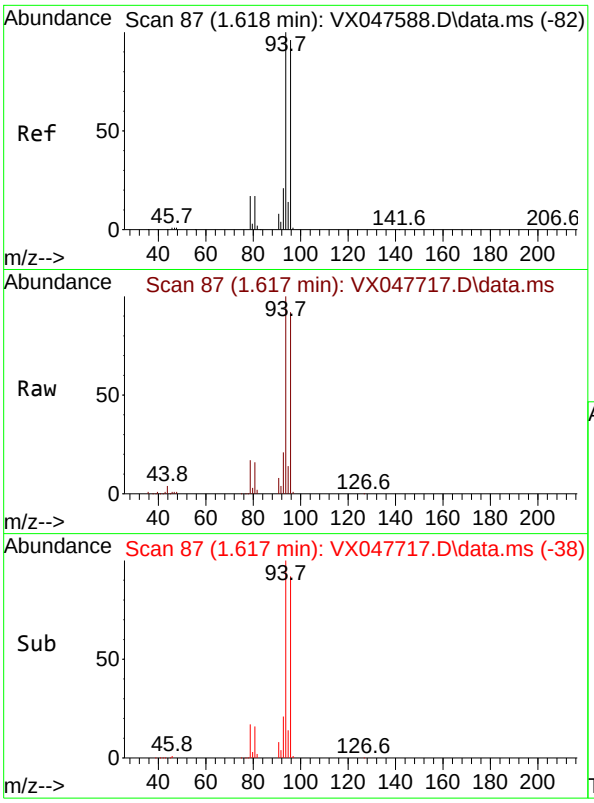


#4
Vinyl Chloride
Concen: 53.183 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 62 Resp: 107172

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.9	37.3



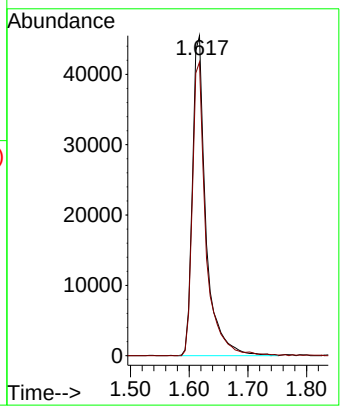


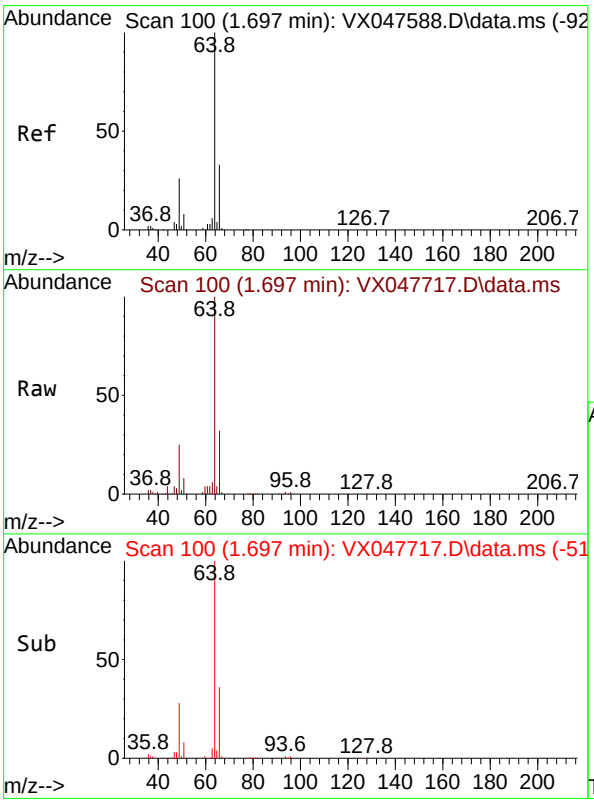
#5
Bromomethane
Concen: 56.826 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 72614

Ion	Ratio	Lower	Upper
94	100		
96	91.8	76.6	115.0

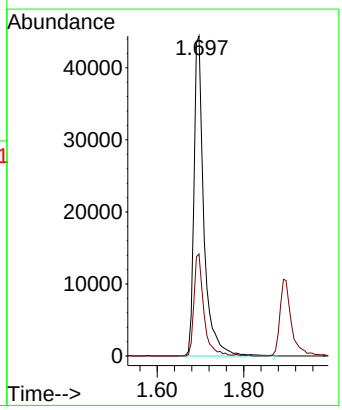


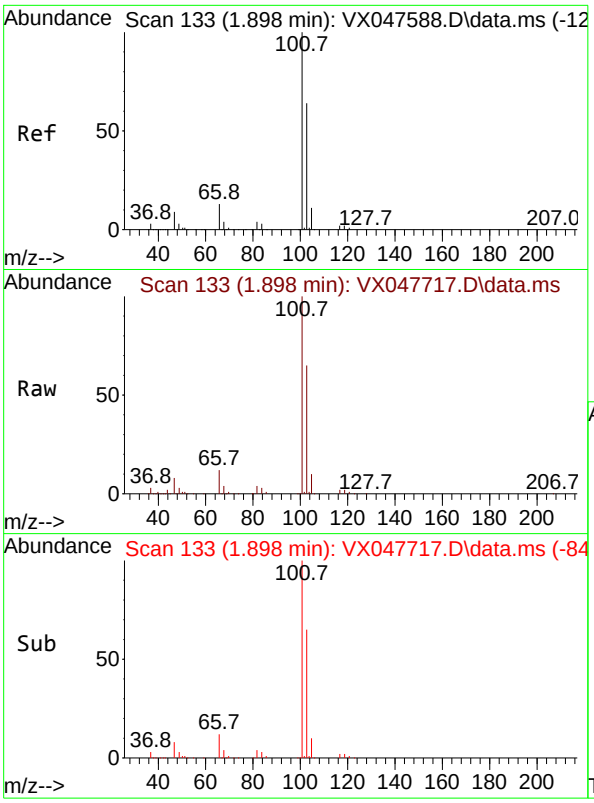


#6
Chloroethane
Concen: 52.407 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 64 Resp: 70585

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1



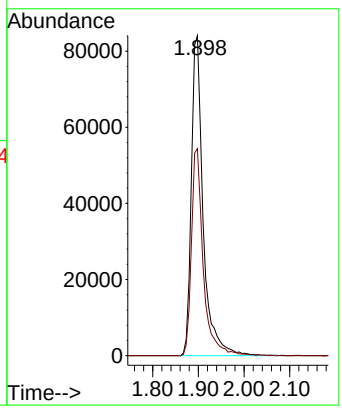


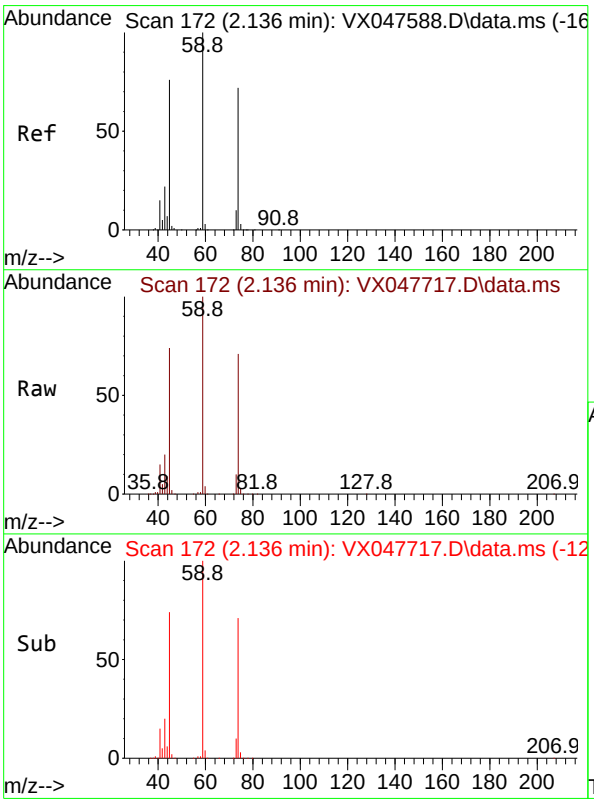
#7
Trichlorofluoromethane
Concen: 50.293 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 150481

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.4	77.2

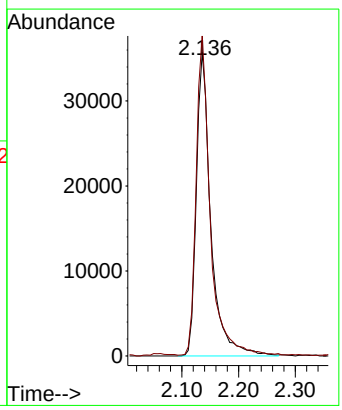


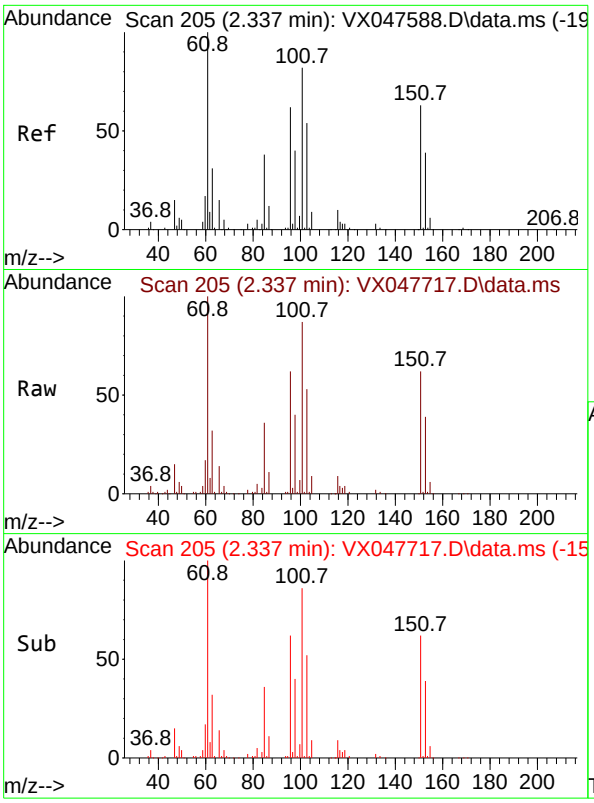


#8
Diethyl Ether
Concen: 51.867 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 74 Resp: 63484

Ion	Ratio	Lower	Upper
74	100		
45	102.2	52.3	156.8



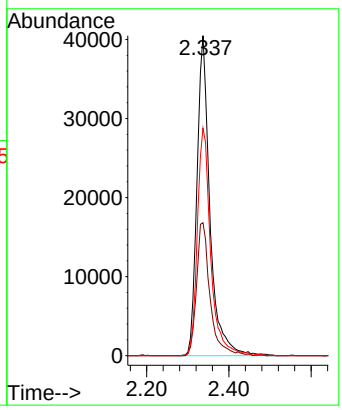


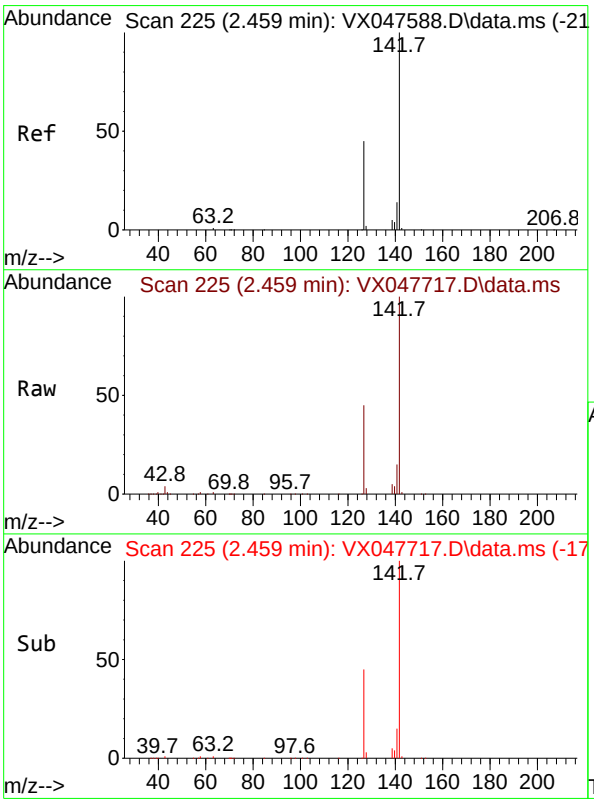
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.597 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 88522

Ion	Ratio	Lower	Upper
101	100		
85	43.3	35.5	53.3
151	73.4	59.4	89.0

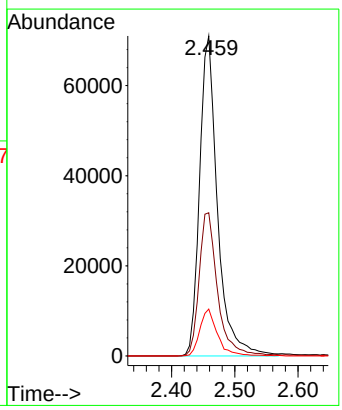


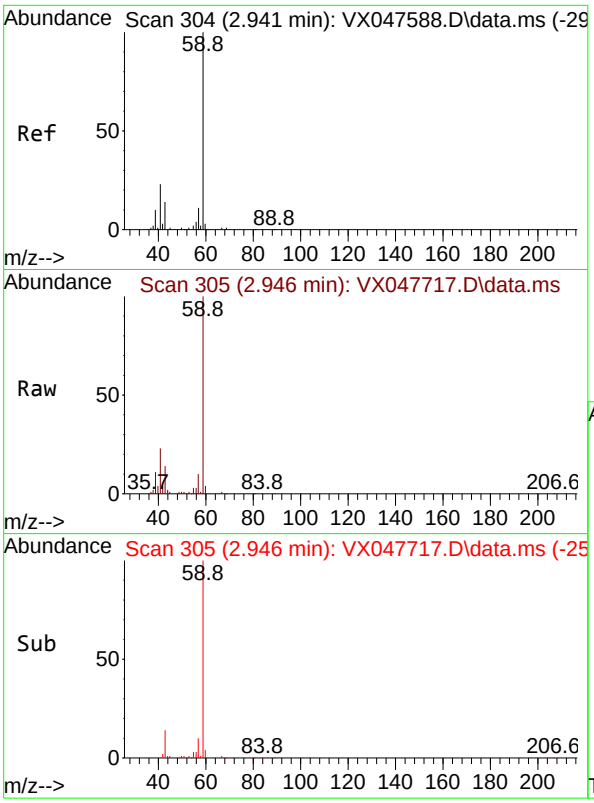


#10
Methyl Iodide
Concen: 51.292 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:142 Resp: 139955

Ion	Ratio	Lower	Upper
142	100		
127	46.4	37.2	55.8
141	14.5	11.4	17.0



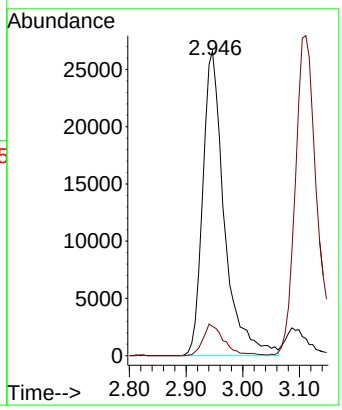


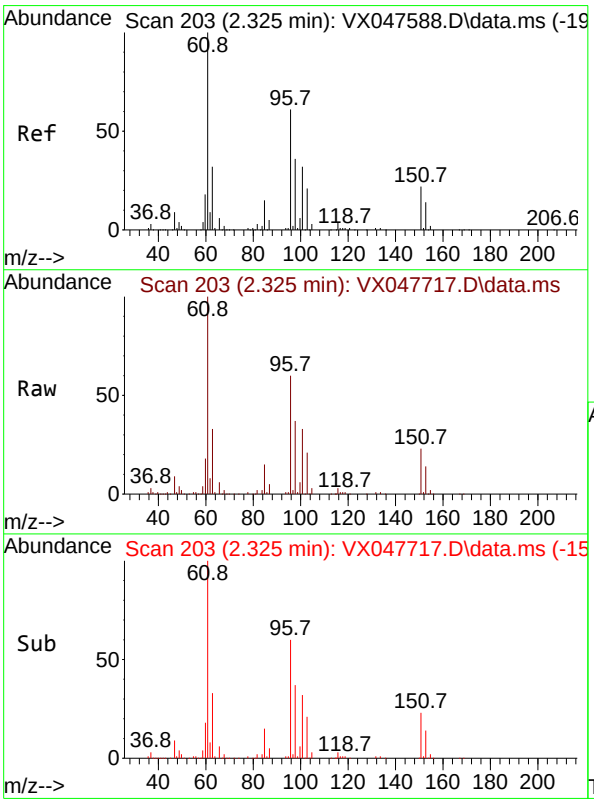
#11
Tert butyl alcohol
Concen: 261.918 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 70235

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5

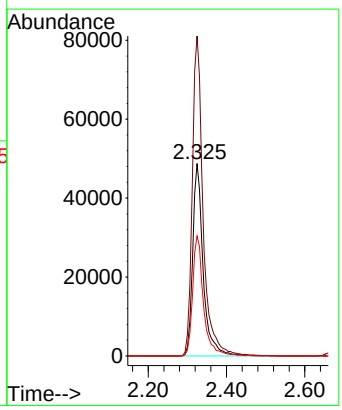


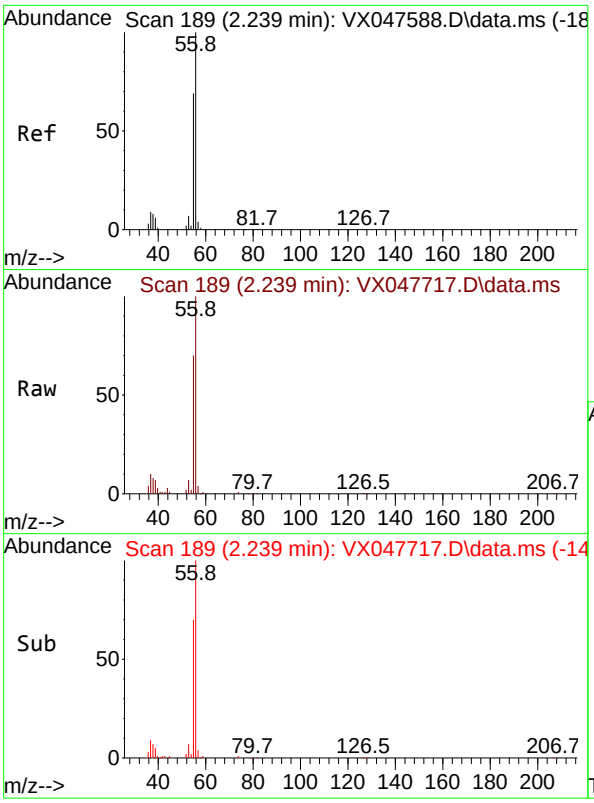


#12
1,1-Dichloroethene
Concen: 50.793 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 96 Resp: 91283

Ion	Ratio	Lower	Upper
96	100		
61	166.3	131.0	196.6
98	62.3	47.7	71.5



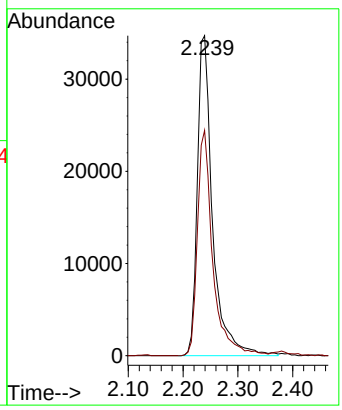


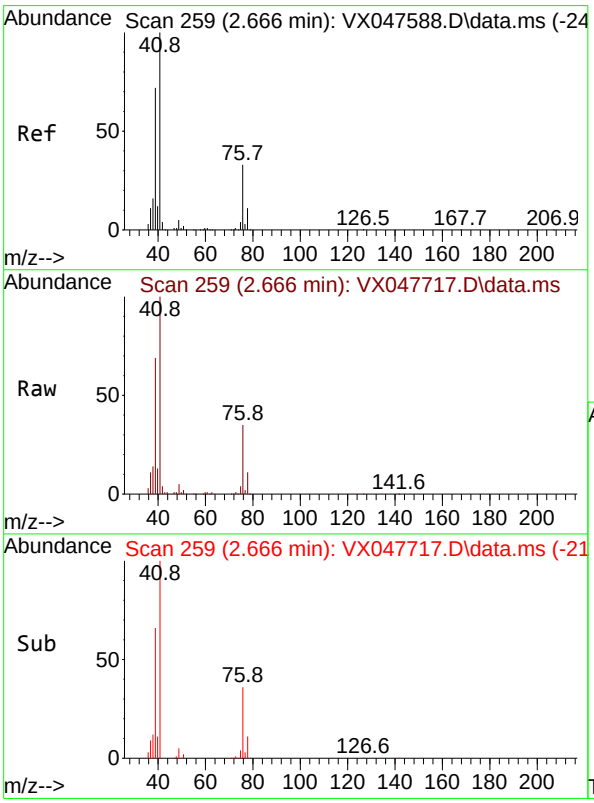
#13
Acrolein
Concen: 272.101 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 67239

Ion	Ratio	Lower	Upper
56	100		
55	70.9	57.2	85.8

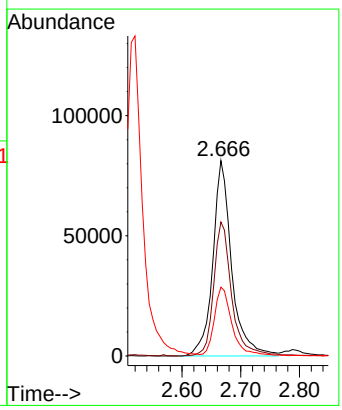


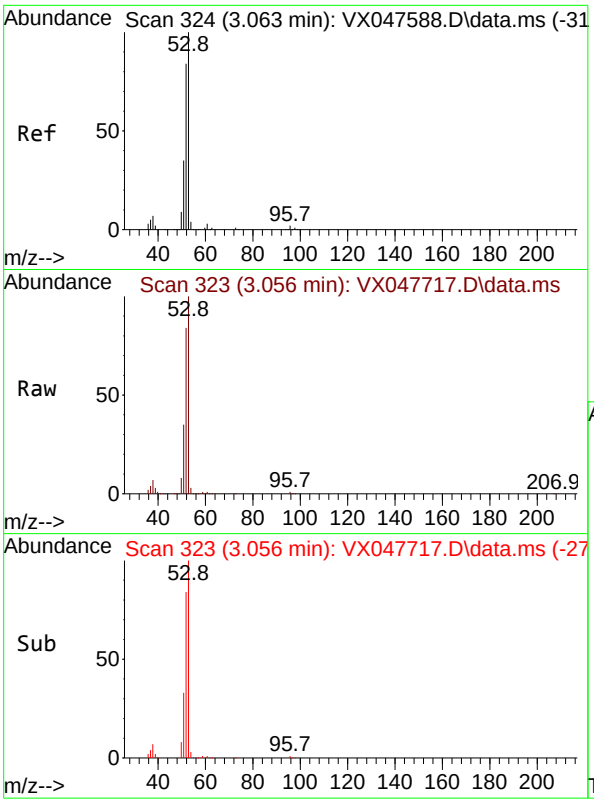


#14
Allyl chloride
Concen: 48.993 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 41 Resp: 181689

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.7	82.1
76	33.5	25.7	38.5



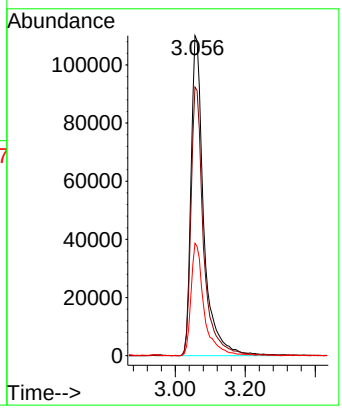


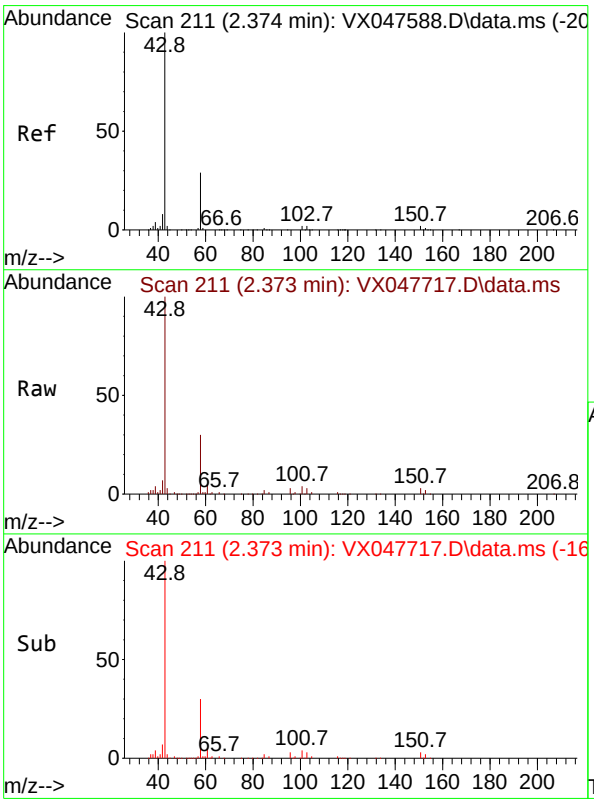
#15
Acrylonitrile
Concen: 280.040 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 278155

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.4	99.6
51	36.1	29.5	44.3

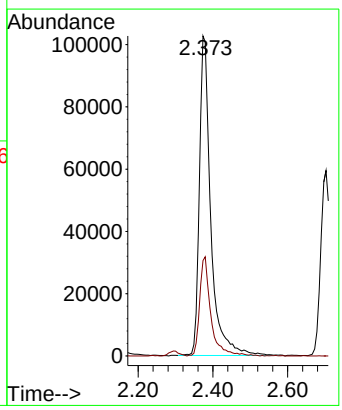


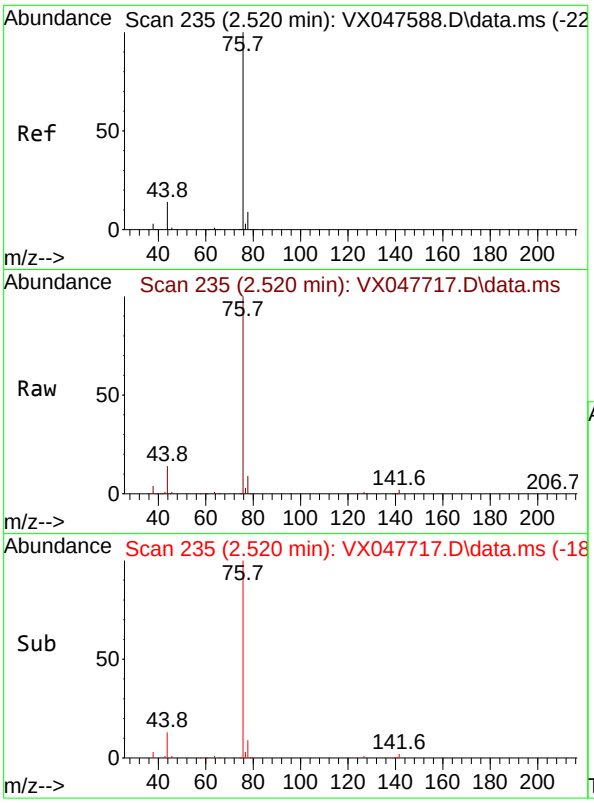


#16
Acetone
Concen: 207.448 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 217175

Ion	Ratio	Lower	Upper
43	100		
58	29.8	23.4	35.0



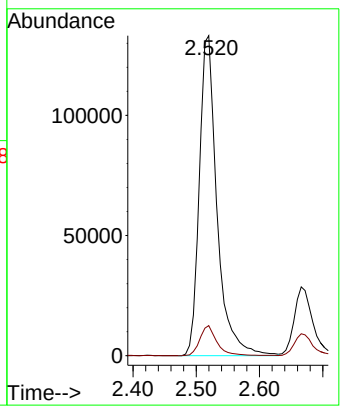


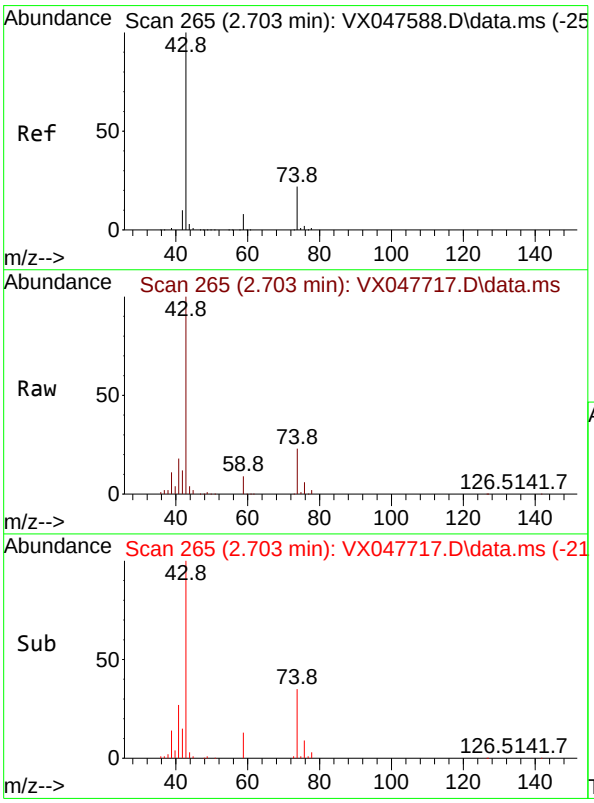
#17
Carbon Disulfide
Concen: 52.873 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 260128

Ion	Ratio	Lower	Upper
76	100		
78	9.4	6.8	10.2

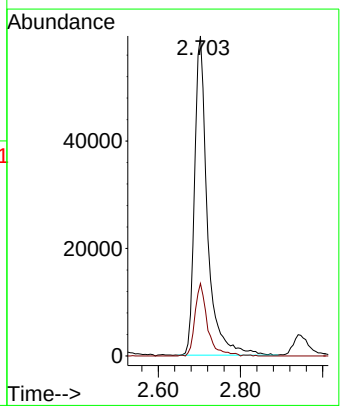


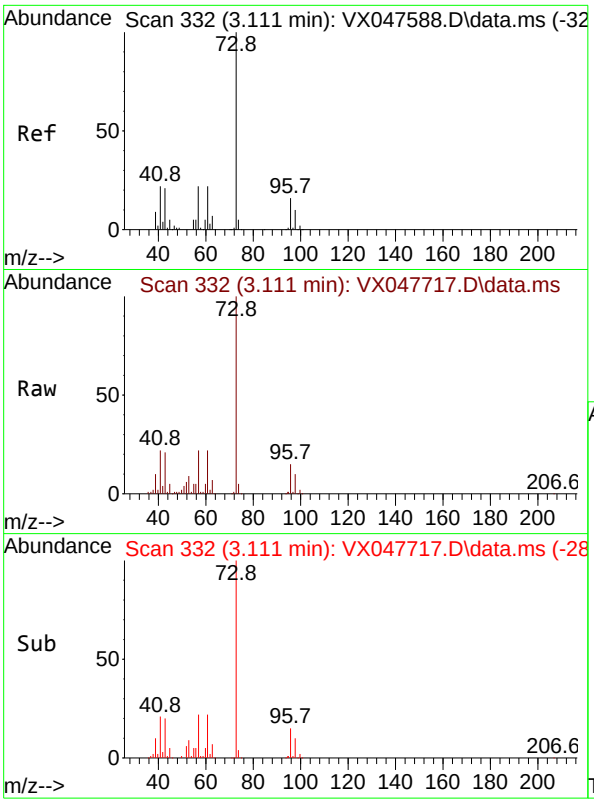


#18
Methyl Acetate
Concen: 55.287 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 128811

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2



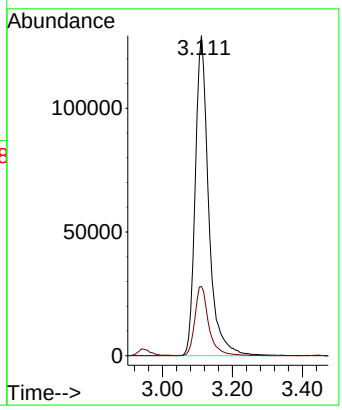


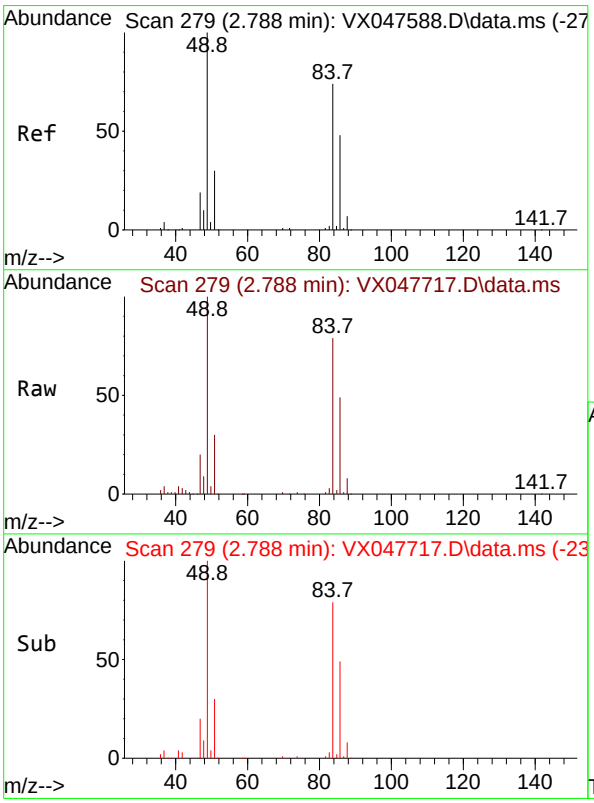
#19
Methyl tert-butyl Ether
Concen: 52.375 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 343603

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2

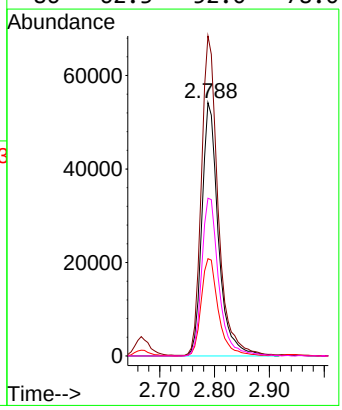


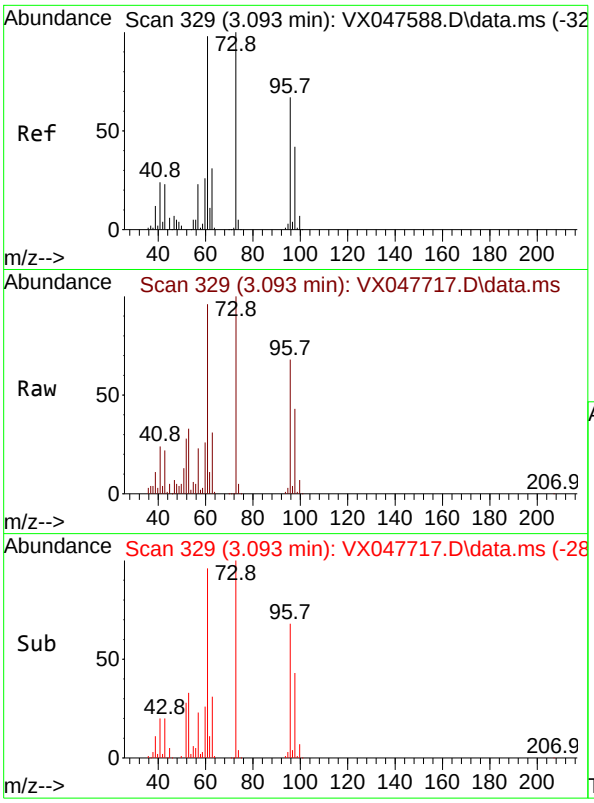


#20
Methylene Chloride
Concen: 51.031 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 84 Resp: 113084

Ion	Ratio	Lower	Upper
84	100		
49	126.1	108.6	162.8
51	38.5	32.6	48.8
86	62.3	52.0	78.0



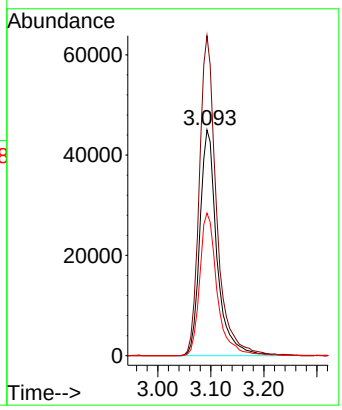


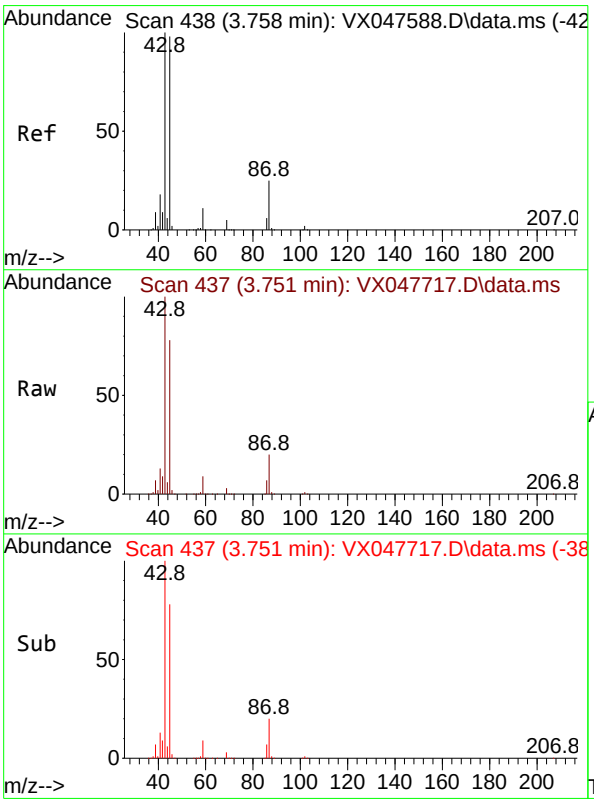
#21
trans-1,2-Dichloroethene
Concen: 52.246 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 101088

Ion	Ratio	Lower	Upper
96	100		
61	141.7	116.2	174.2
98	63.2	49.3	73.9

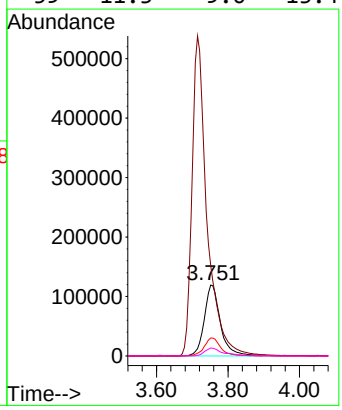


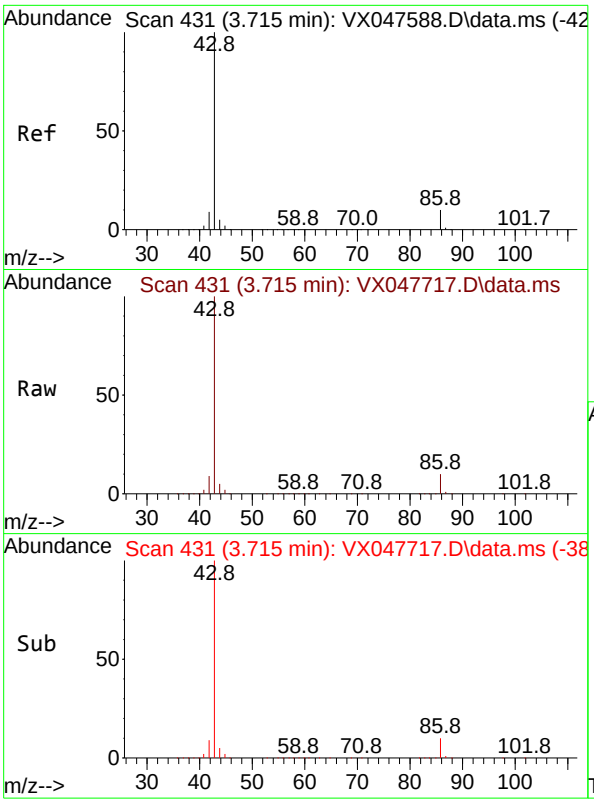


#22
Diisopropyl ether
Concen: 52.076 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 45 Resp: 374276

Ion	Ratio	Lower	Upper
45	100		
43	128.0	81.0	121.4#
87	25.4	20.3	30.5
59	11.3	9.0	13.4



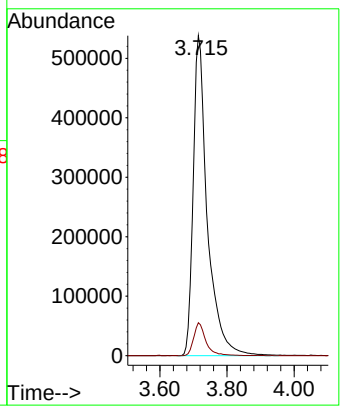


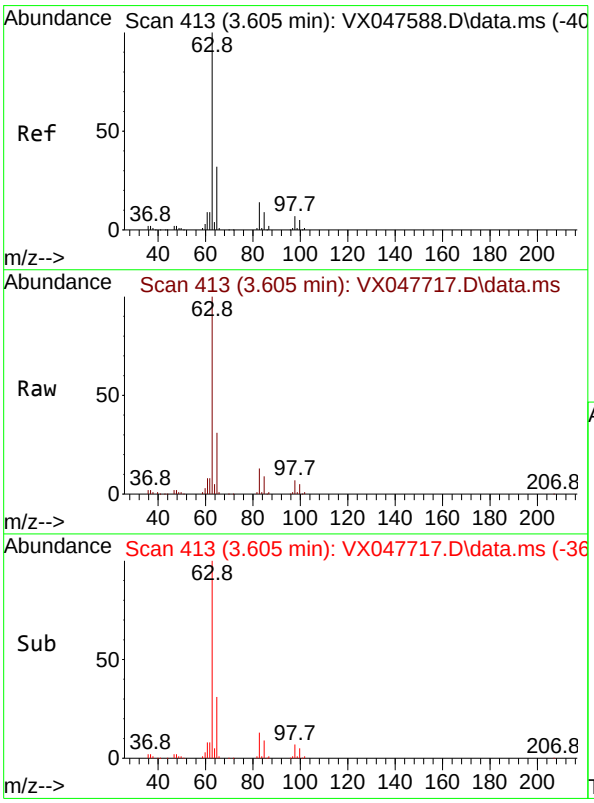
#23
Vinyl Acetate
Concen: 273.882 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1575430

Ion	Ratio	Lower	Upper
43	100		
86	10.3	7.8	11.8

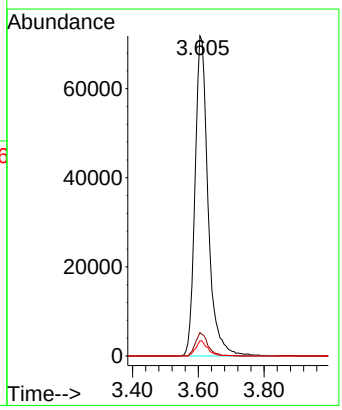


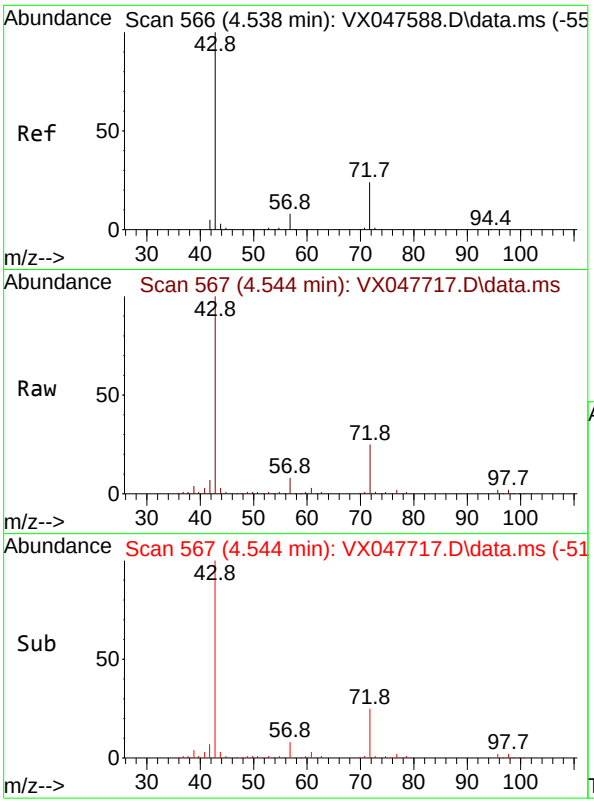


#24
1,1-Dichloroethane
Concen: 51.765 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 63 Resp: 197744

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.7	2.3	6.9



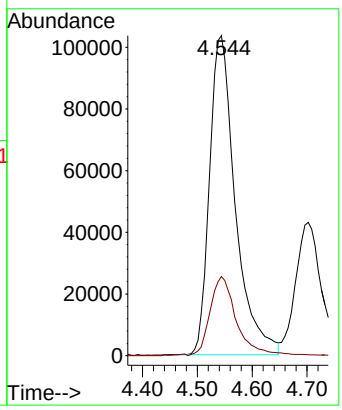


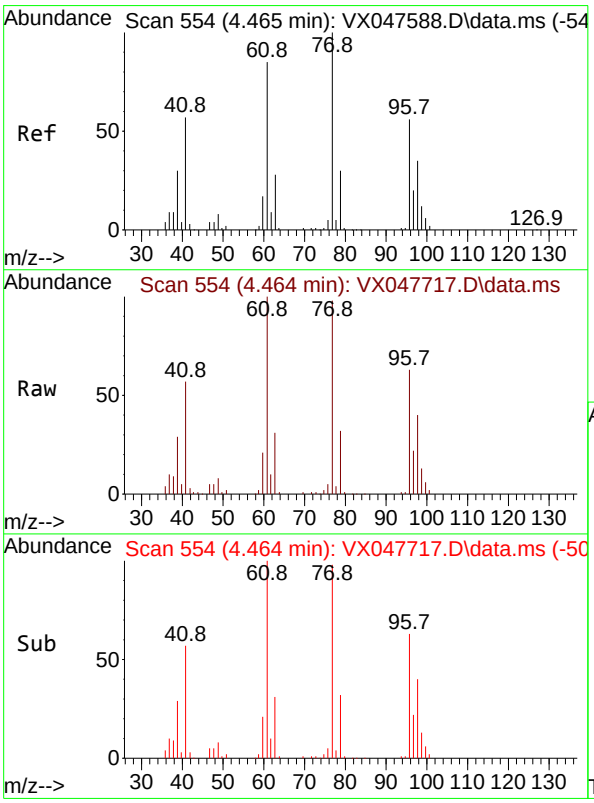
#25
2-Butanone
Concen: 258.807 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 337965

Ion	Ratio	Lower	Upper
43	100		
72	24.5	20.1	30.1

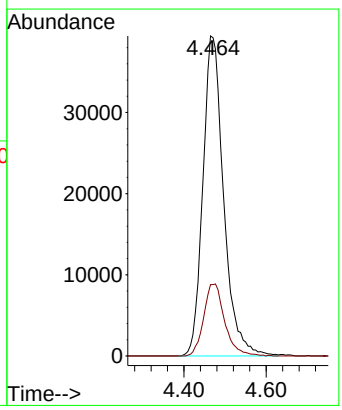


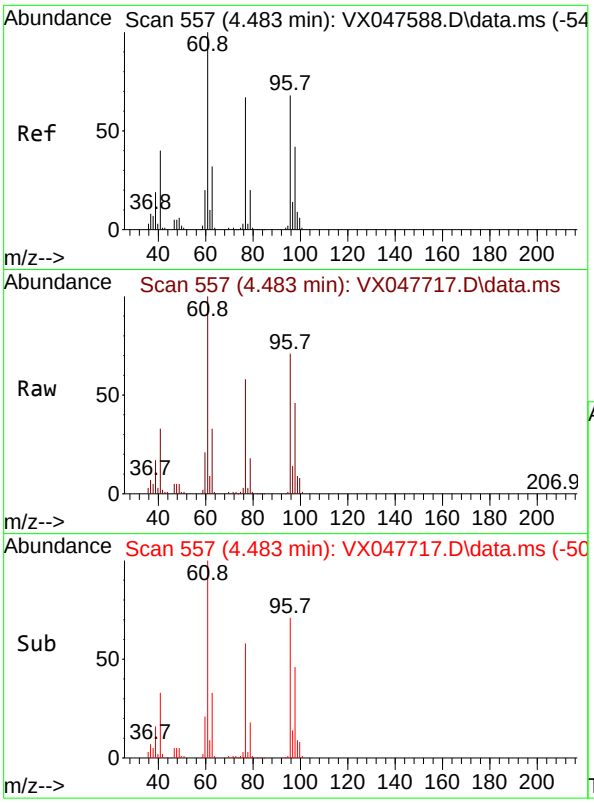


#26
2,2-Dichloropropane
Concen: 43.525 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 77 Resp: 138210

Ion	Ratio	Lower	Upper
77	100		
97	22.7	10.9	32.7



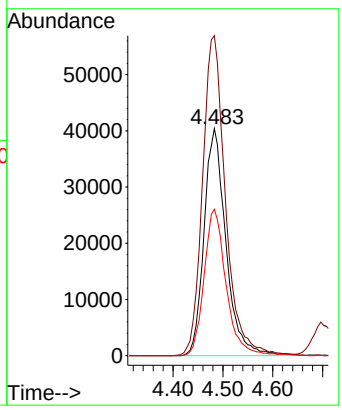


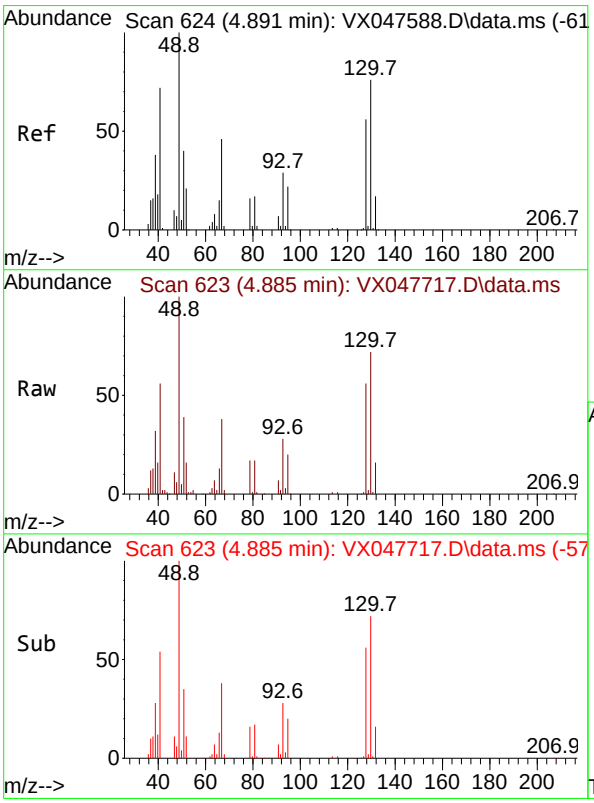
#27
cis-1,2-Dichloroethene
Concen: 51.917 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 123020

Ion	Ratio	Lower	Upper
96	100		
61	147.9	0.0	303.2
98	64.8	0.0	127.8

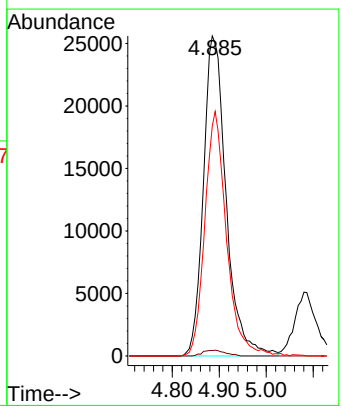


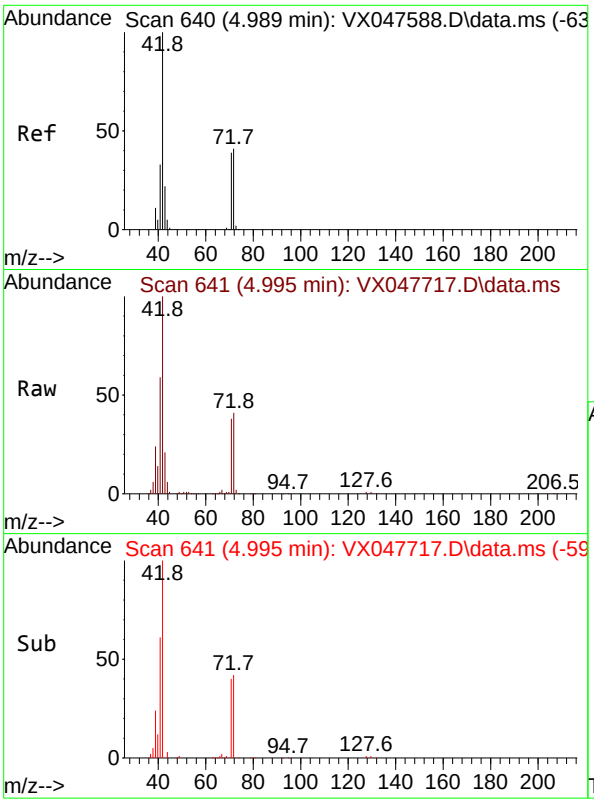


#28
Bromochloromethane
Concen: 51.404 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 49 Resp: 85726

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.9	57.8	86.8



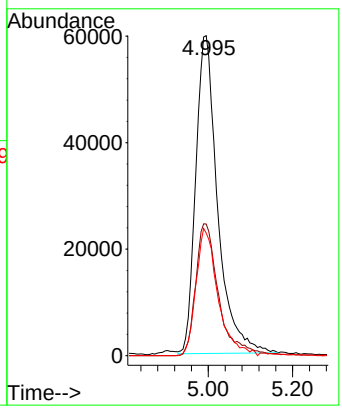


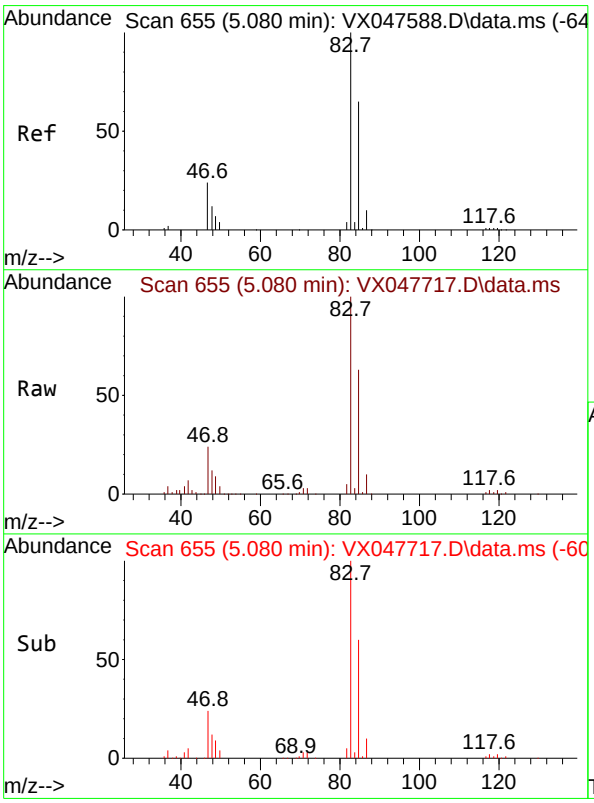
#29
Tetrahydrofuran
Concen: 274.899 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 215954

Ion	Ratio	Lower	Upper
42	100		
72	43.7	34.2	51.2
71	40.0	31.9	47.9

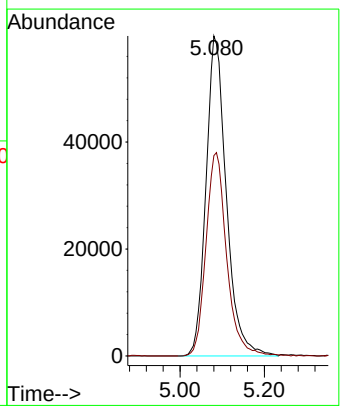


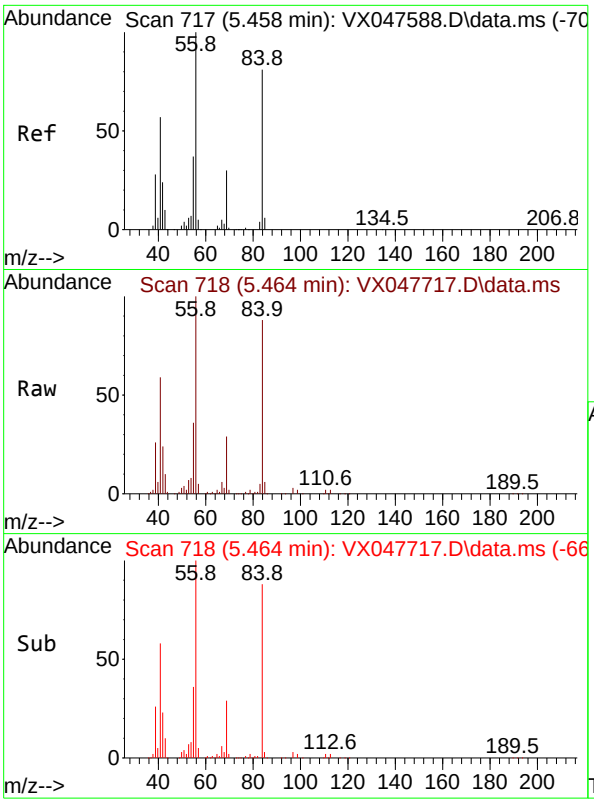


#30
Chloroform
Concen: 51.979 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 83 Resp: 200652

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.8	77.6



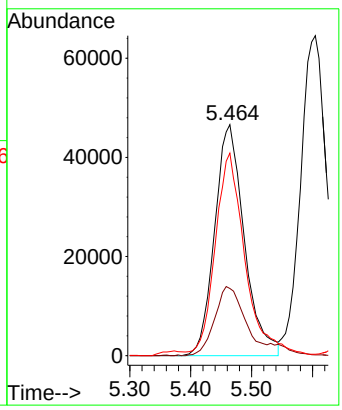


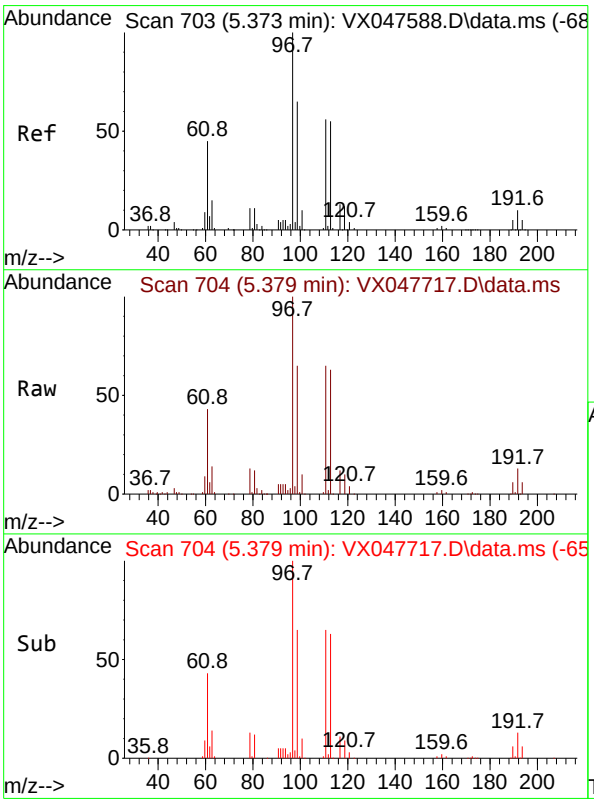
#31
Cyclohexane
Concen: 49.517 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 157545

Ion	Ratio	Lower	Upper
56	100		
69	28.7	23.8	35.8
84	86.0	64.6	97.0

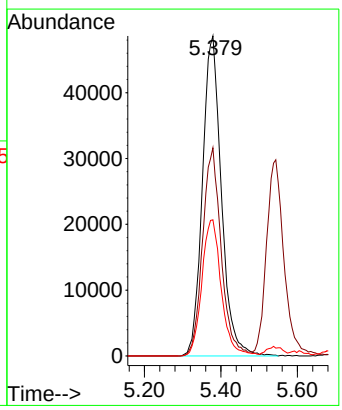


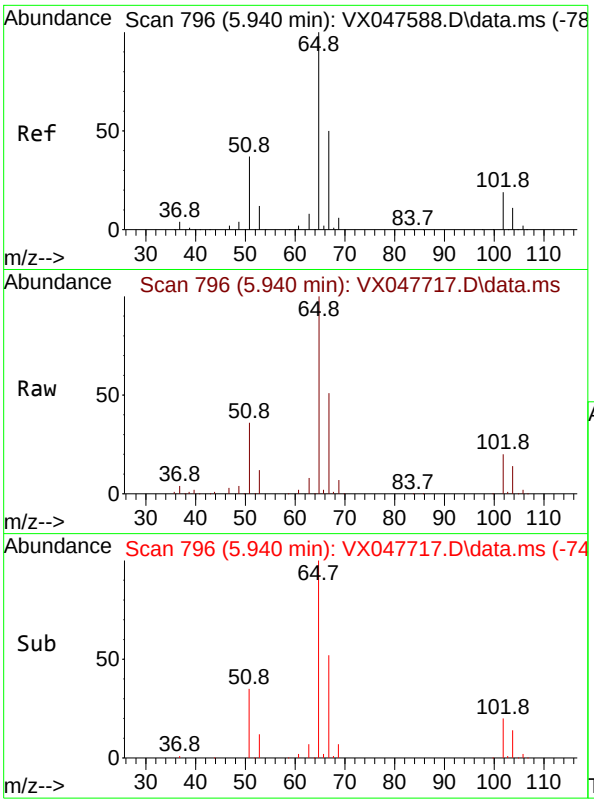


#32
1,1,1-Trichloroethane
Concen: 51.085 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 97 Resp: 167268

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	43.6	35.8	53.8



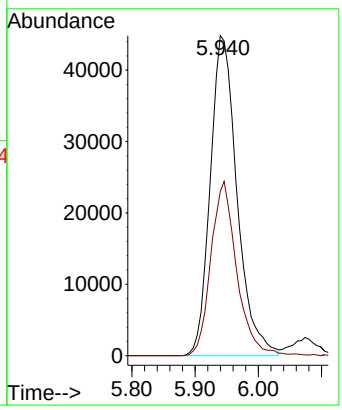


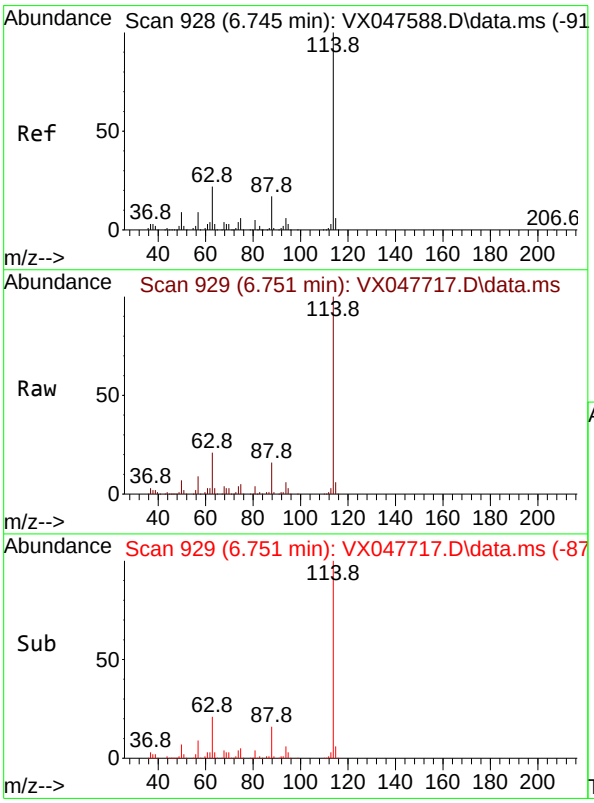
#33
1,2-Dichloroethane-d4
Concen: 54.742 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 131803

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	103.0

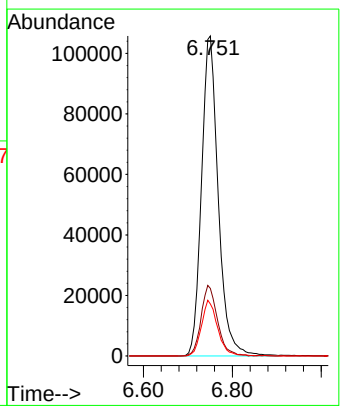


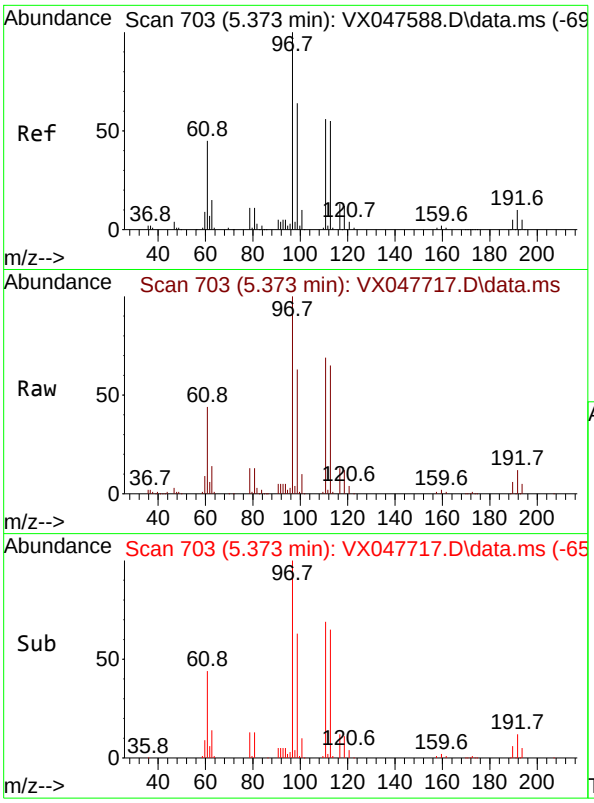


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:114 Resp: 277250

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	44.0
88	16.2	0.0	34.2



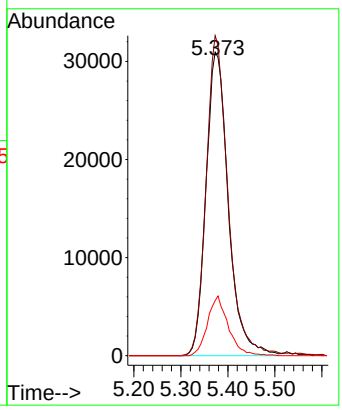


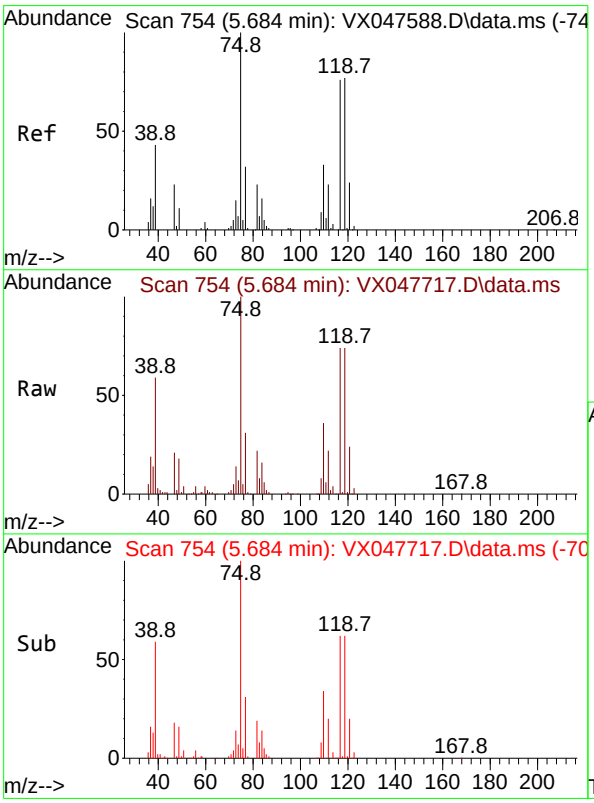
#35
Dibromofluoromethane
Concen: 55.097 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 102447

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.9	121.3
192	18.3	14.2	21.4

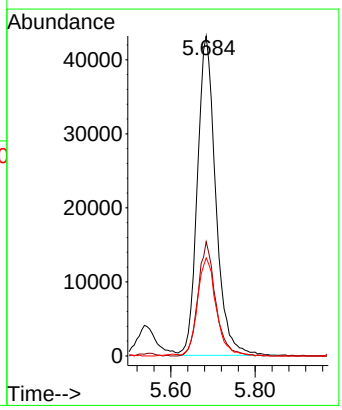


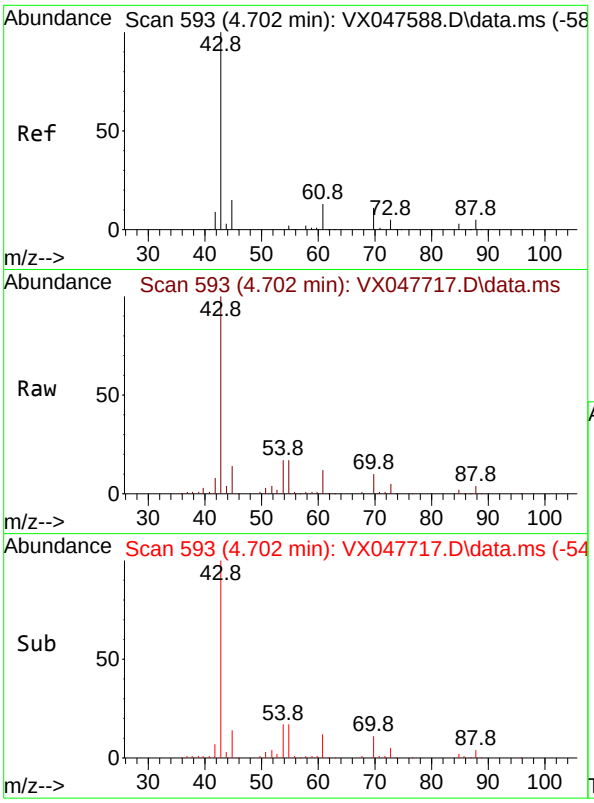


#36
1,1-Dichloropropene
Concen: 48.007 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 130436

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.7	50.1
77	30.9	24.3	36.5



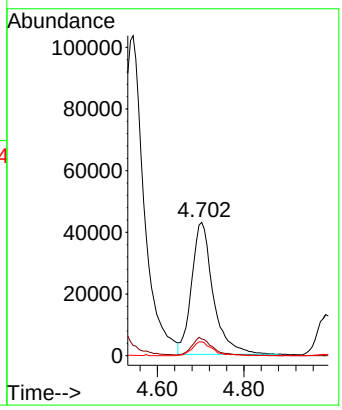


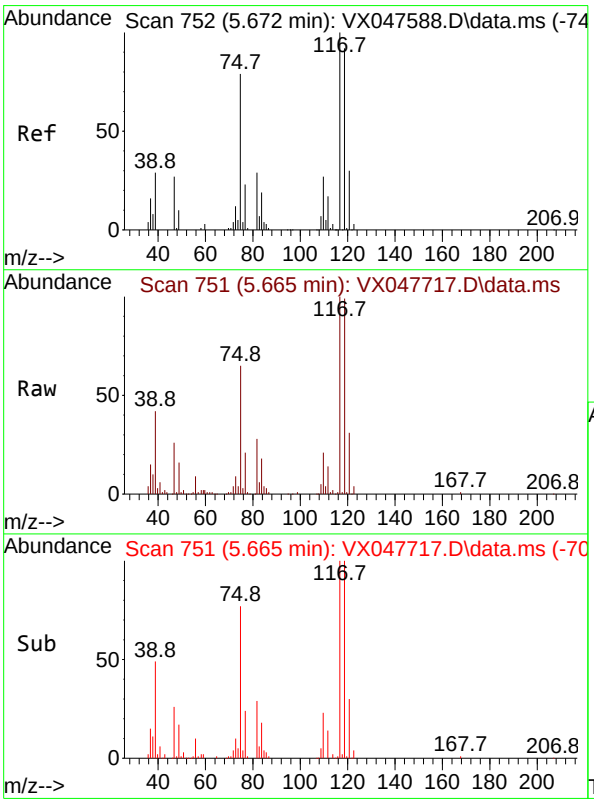
#37
Ethyl Acetate
Concen: 50.836 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 147890

Ion	Ratio	Lower	Upper
43	100		
61	13.5	9.8	14.8
70	9.9	7.9	11.9

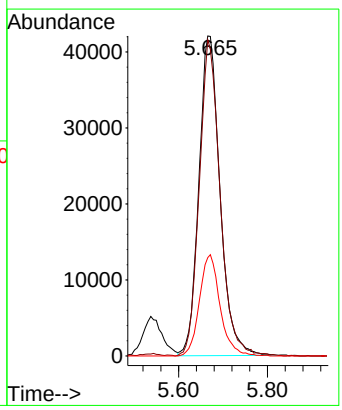


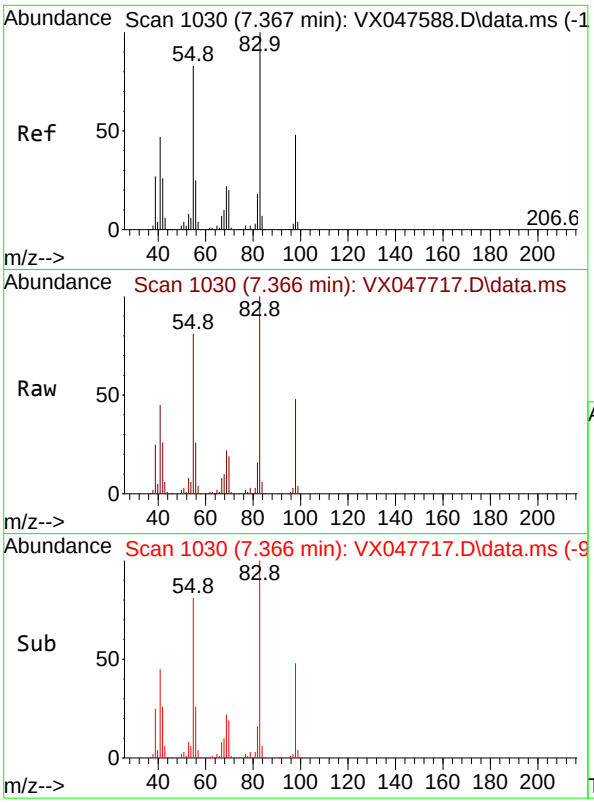


#38
Carbon Tetrachloride
Concen: 47.209 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:117 Resp: 139363

Ion	Ratio	Lower	Upper
117	100		
119	98.8	73.4	110.2
121	30.8	23.8	35.6



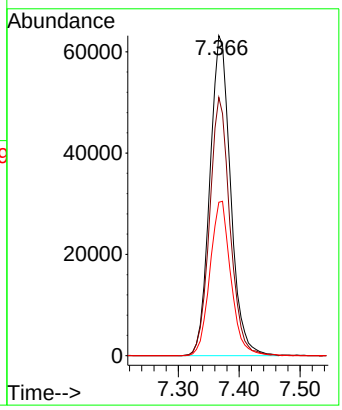


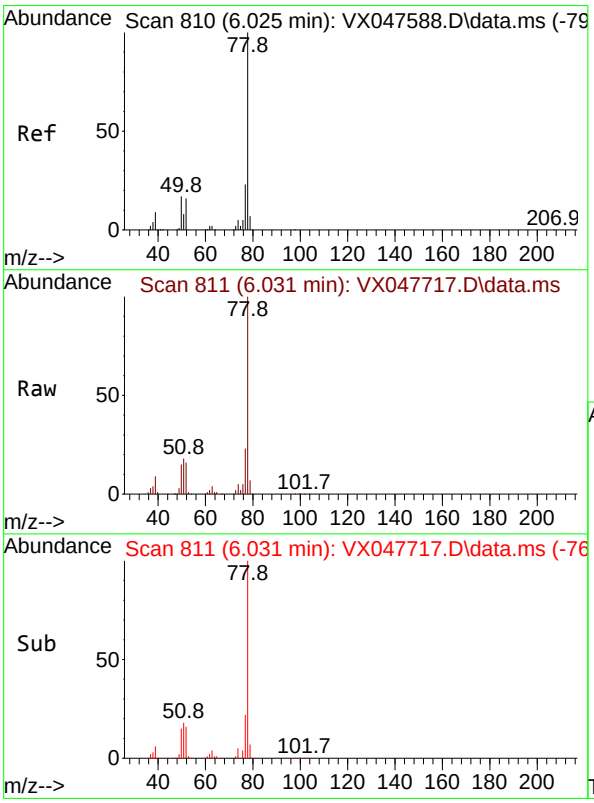
#39
Methylcyclohexane
Concen: 48.510 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 149612

Ion	Ratio	Lower	Upper
83	100		
55	80.7	66.4	99.6
98	48.0	38.1	57.1

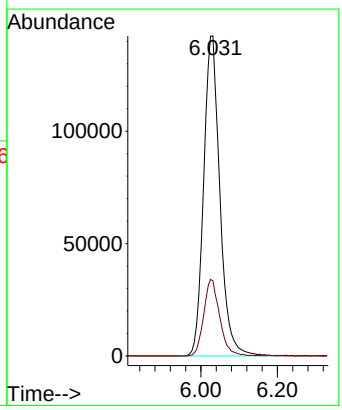


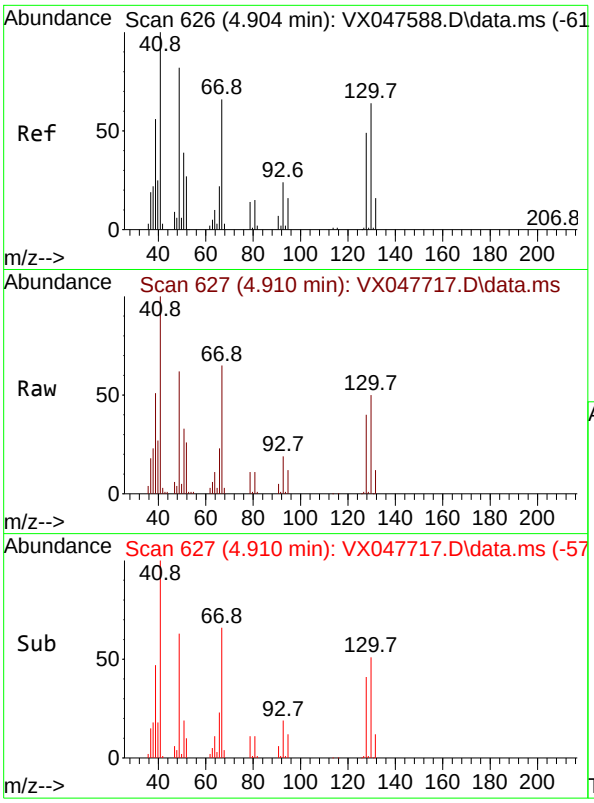


#40
Benzene
Concen: 50.844 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 78 Resp: 419576

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



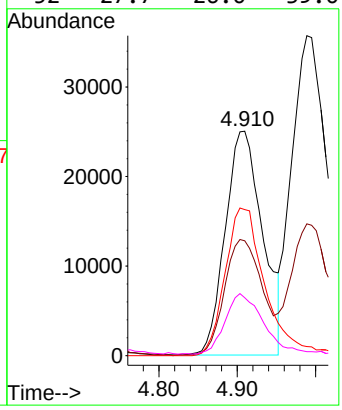


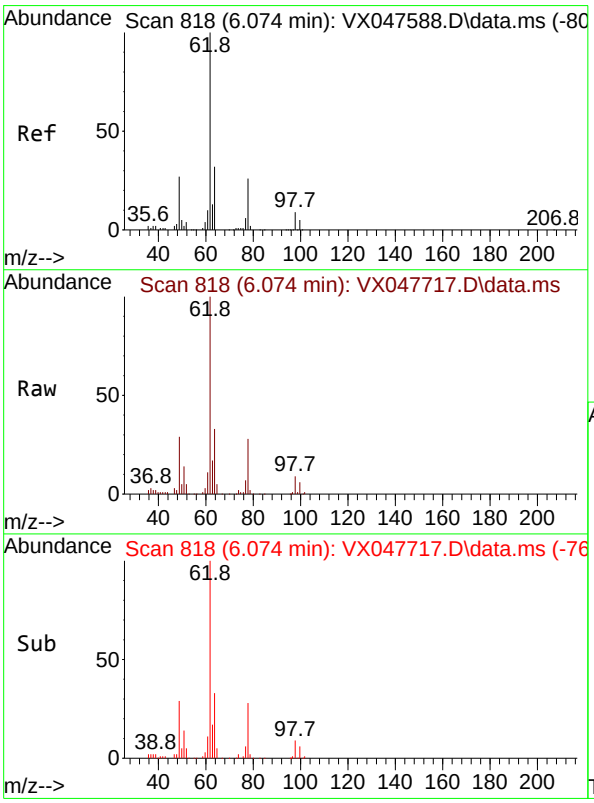
#41
Methacrylonitrile
Concen: 55.388 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 83185

Ion	Ratio	Lower	Upper
41	100		
39	50.9	43.3	64.9
67	71.8	58.6	87.8
52	27.7	26.0	39.0

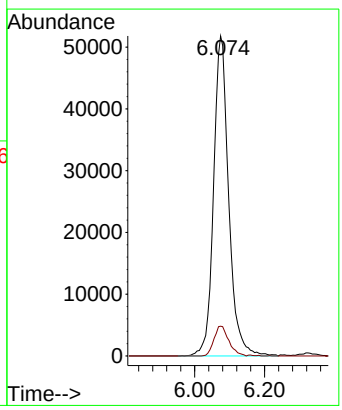


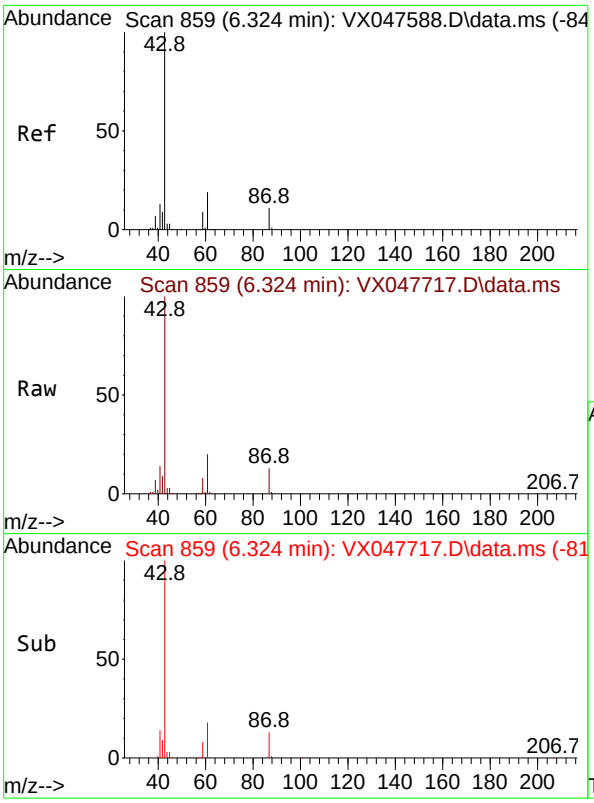


#42
1,2-Dichloroethane
Concen: 49.515 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 62 Resp: 155471

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0



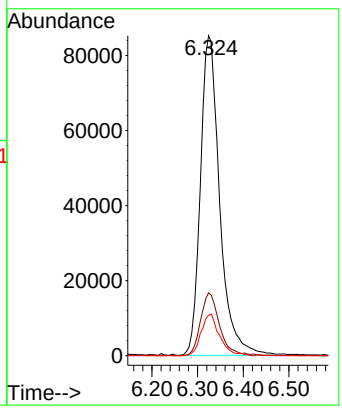


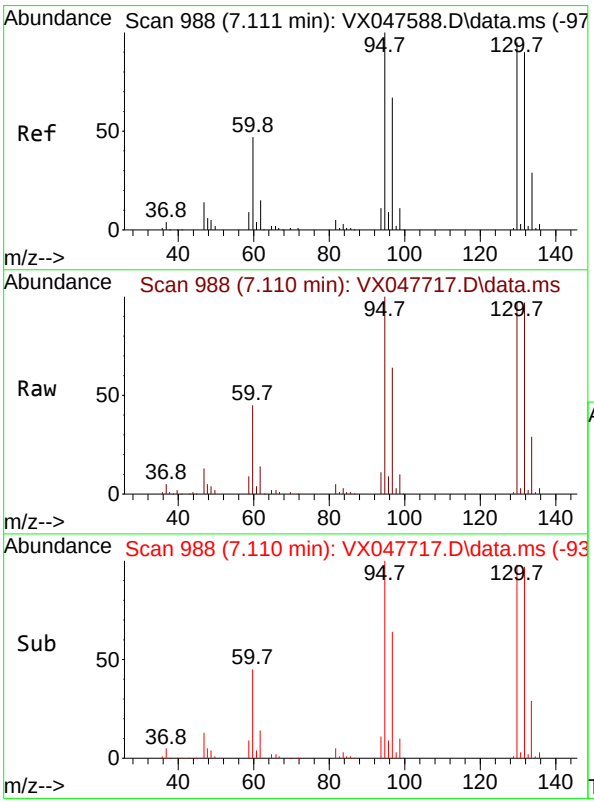
#43
Isopropyl Acetate
Concen: 52.355 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 249793

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.3	9.6	14.4

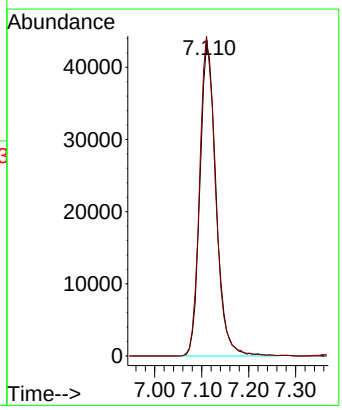


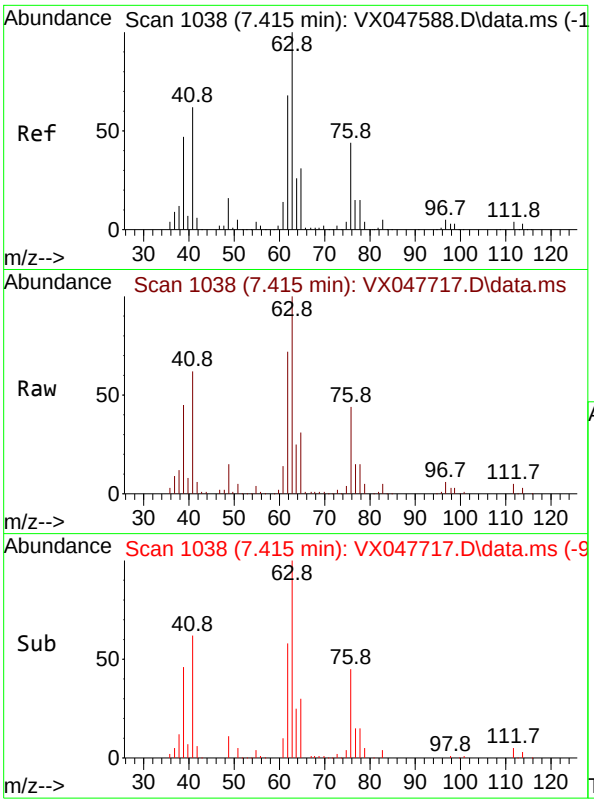


#44
Trichloroethene
Concen: 52.011 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:130 Resp: 103766

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	210.8



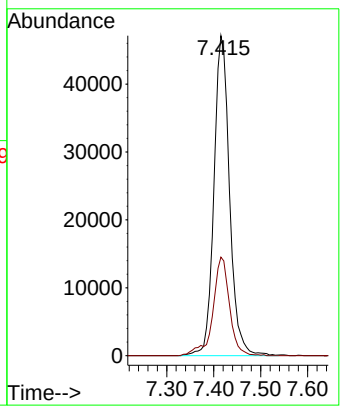


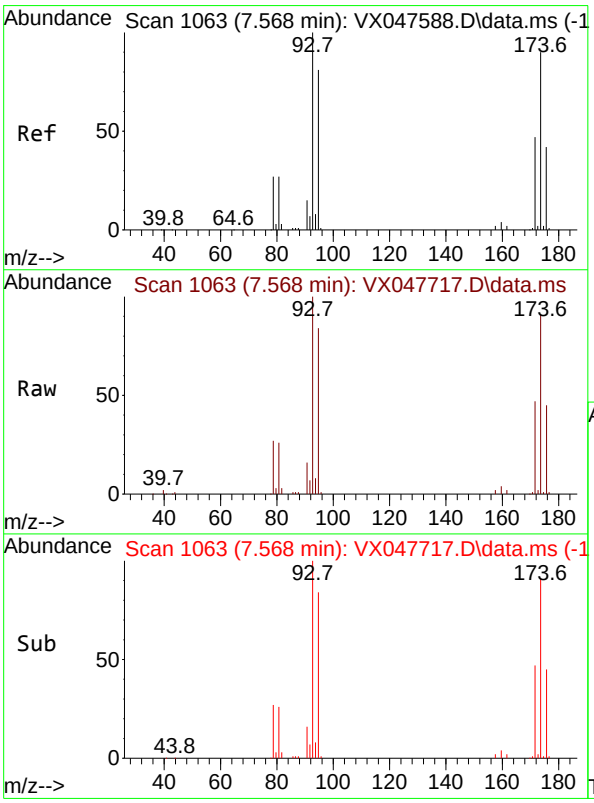
#45
1,2-Dichloropropane
Concen: 51.582 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 108998

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.7	37.1

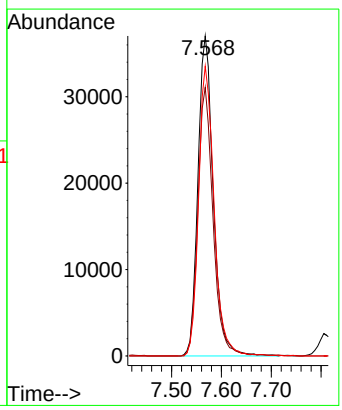


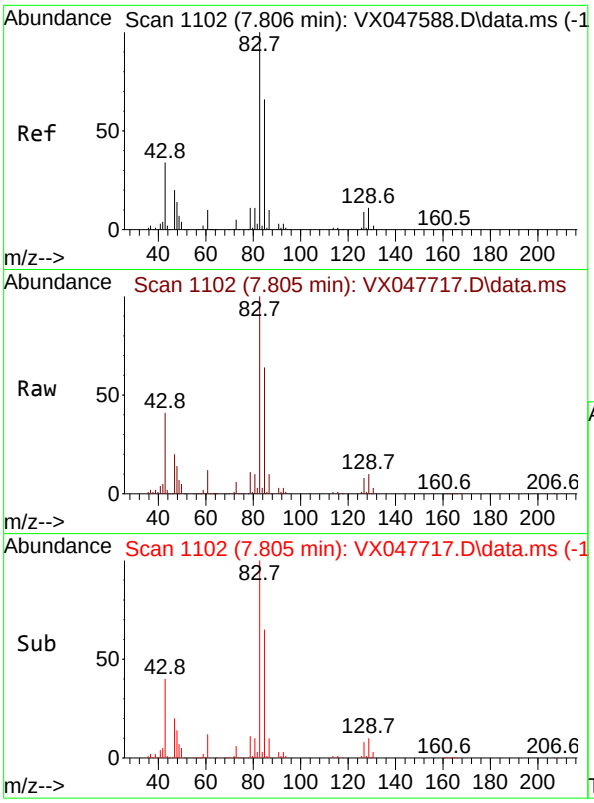


#46
Dibromomethane
Concen: 51.526 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 93 Resp: 79231

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.0	97.6
174	91.4	71.6	107.4



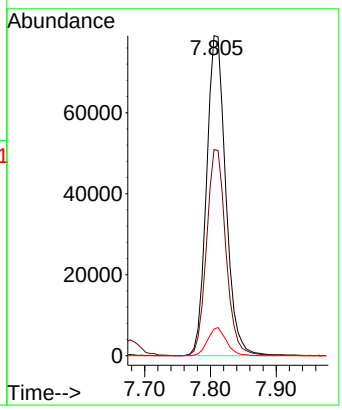


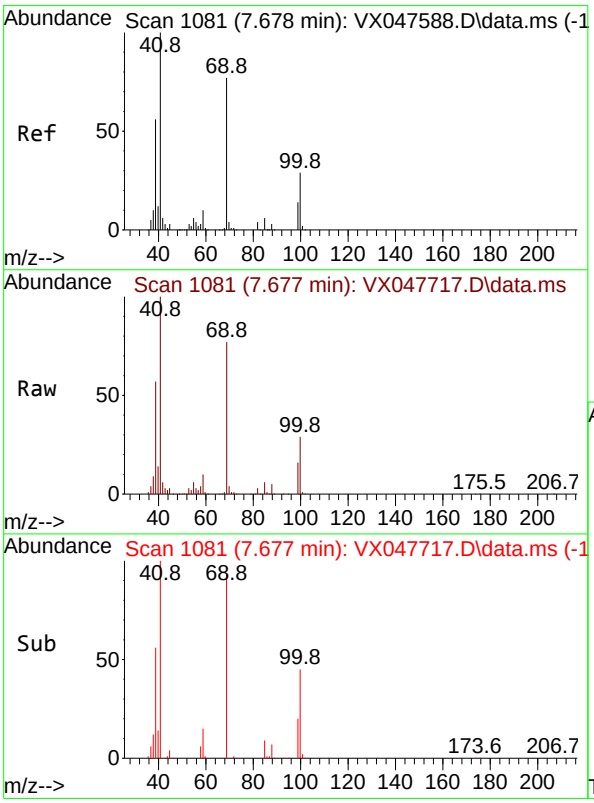
#47
Bromodichloromethane
Concen: 50.680 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 160815

Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.5	78.7
127	8.3	6.9	10.3

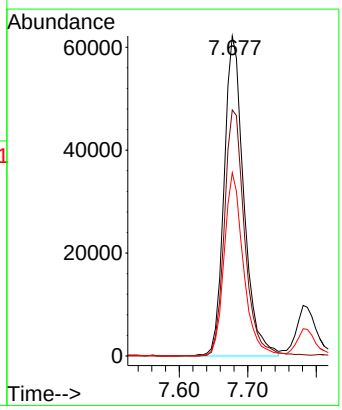


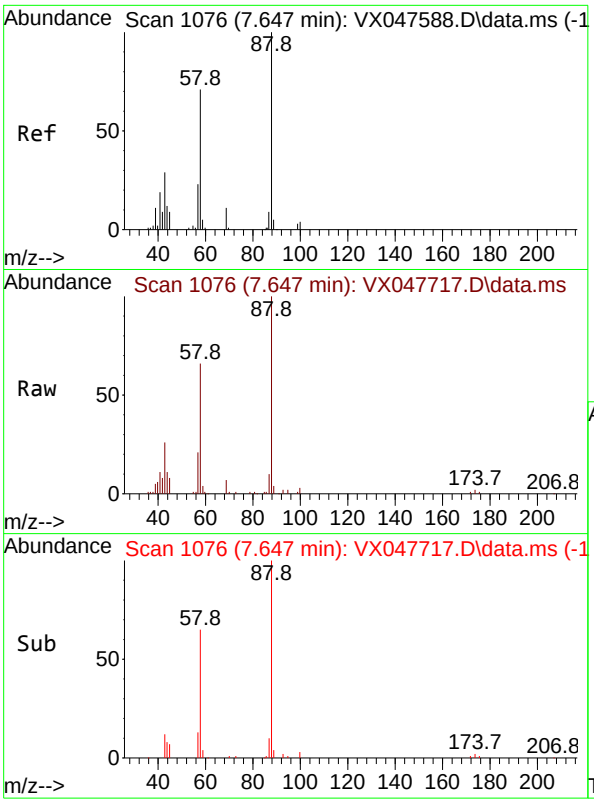


#48
Methyl methacrylate
Concen: 52.179 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 41 Resp: 124008

Ion	Ratio	Lower	Upper
41	100		
69	79.0	61.4	92.2
39	56.1	45.8	68.6



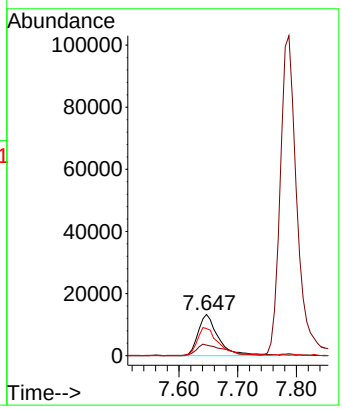


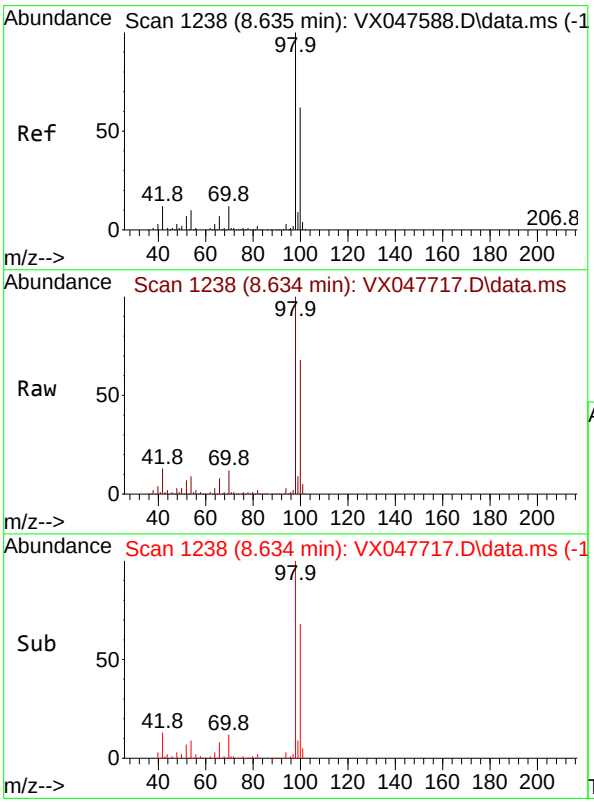
#49
1,4-Dioxane
Concen: 1328.639 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 31911

Ion	Ratio	Lower	Upper
88	100		
43	35.9	30.2	45.2
58	71.9	59.5	89.3

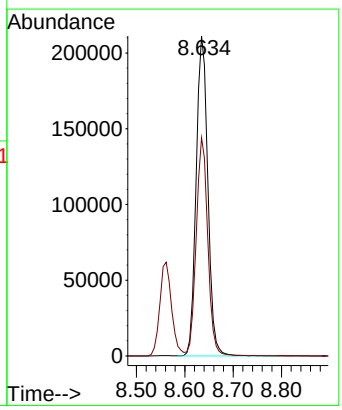


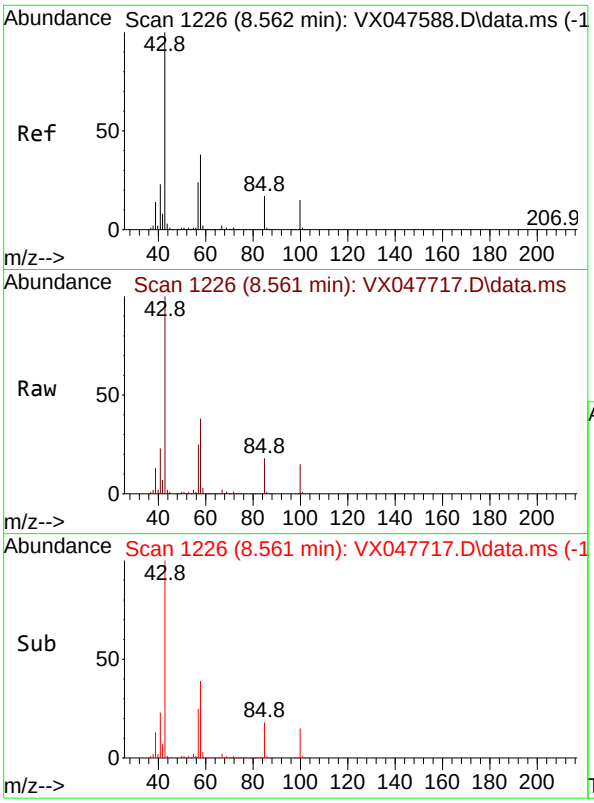


#50
Toluene-d8
Concen: 54.996 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 98 Resp: 353835

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4



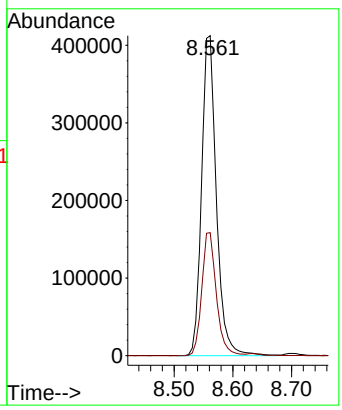


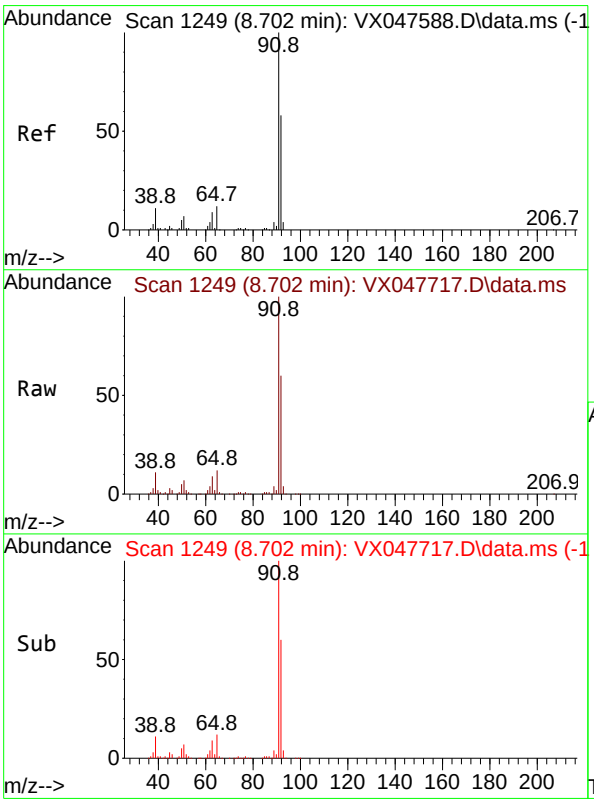
#51
4-Methyl-2-Pentanone
Concen: 272.732 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 721472

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5

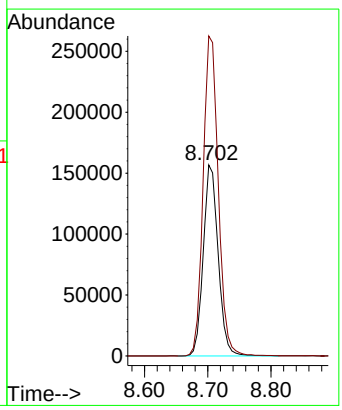


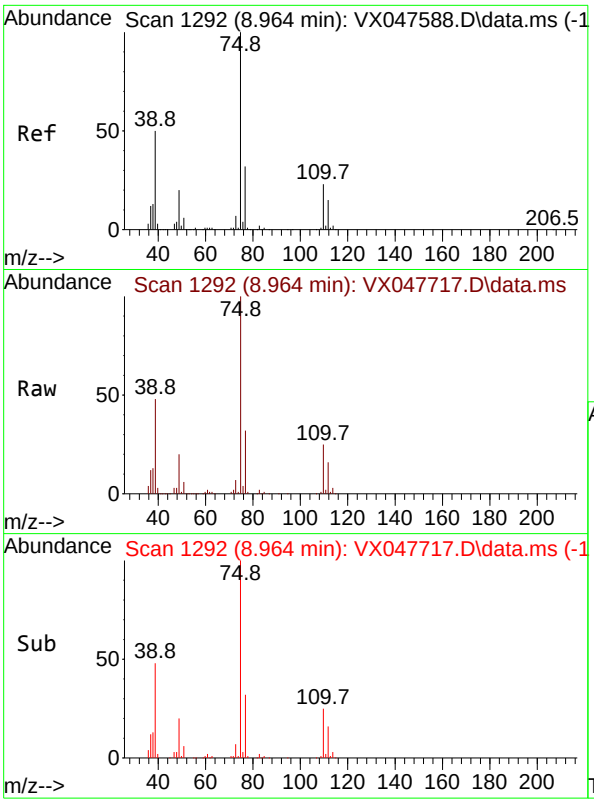


#52
Toluene
Concen: 50.554 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 92 Resp: 257025

Ion	Ratio	Lower	Upper
92	100		
91	170.5	137.1	205.7



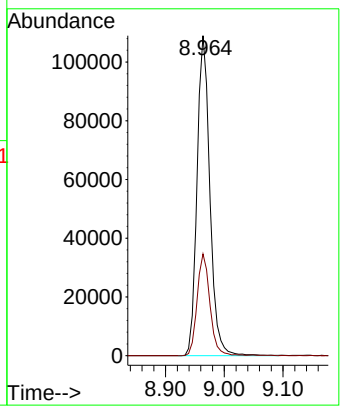


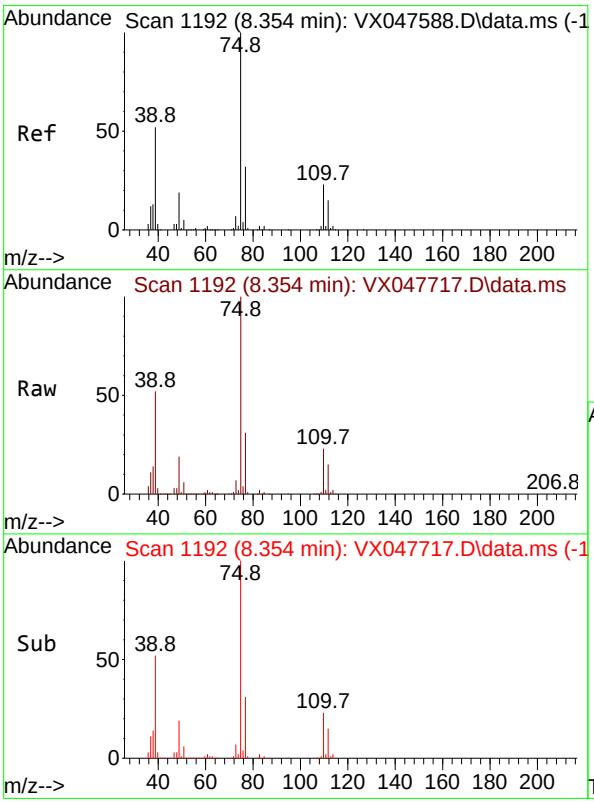
#53
t-1,3-Dichloropropene
Concen: 51.028 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 165158

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2

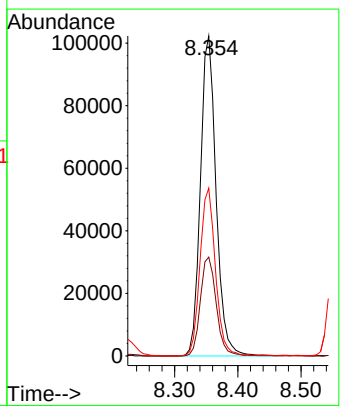


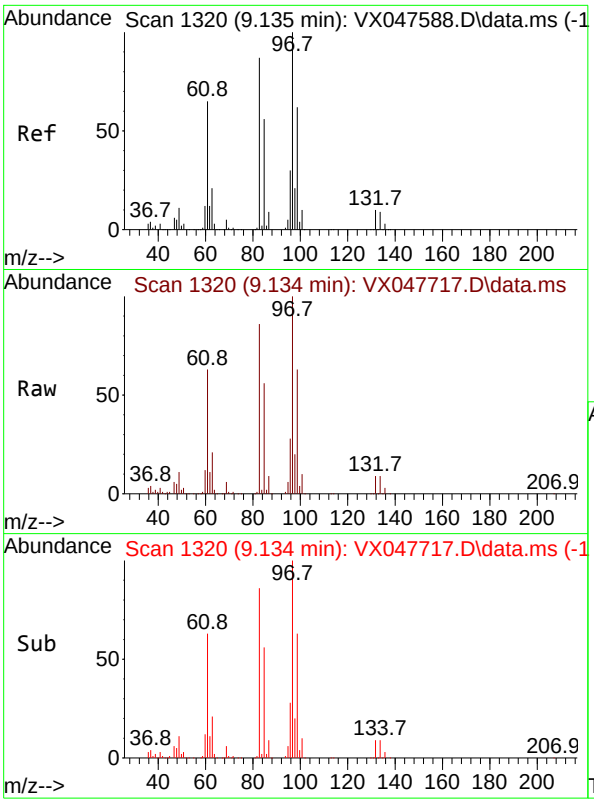


#54
cis-1,3-Dichloropropene
Concen: 51.038 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 176564

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.8	38.6
39	52.4	41.4	62.2



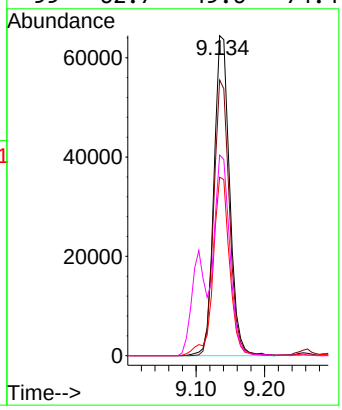


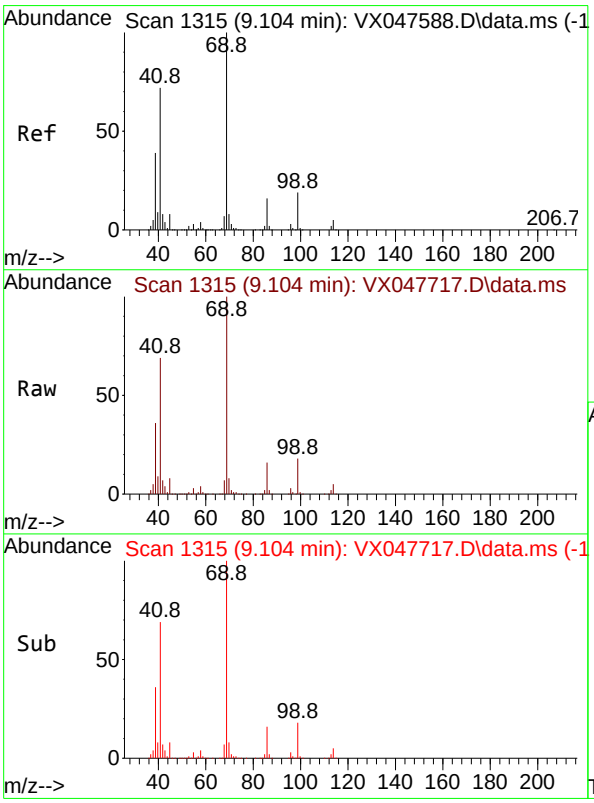
#55
1,1,2-Trichloroethane
Concen: 52.227 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 102388

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	55.8	45.0	67.6
99	62.7	49.6	74.4

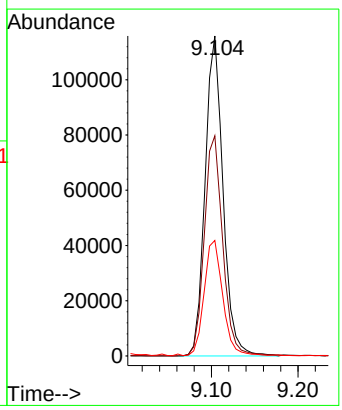


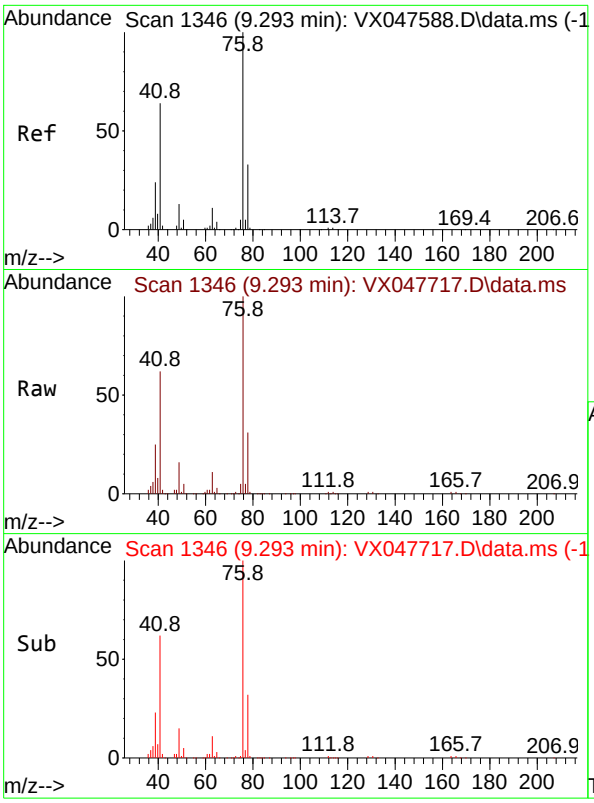


#56
Ethyl methacrylate
Concen: 54.080 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 69 Resp: 166501

Ion	Ratio	Lower	Upper
69	100		
41	71.1	58.6	87.8
39	37.8	31.5	47.3



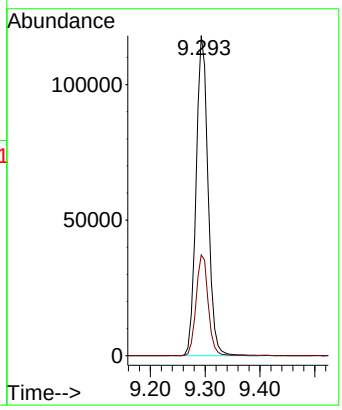


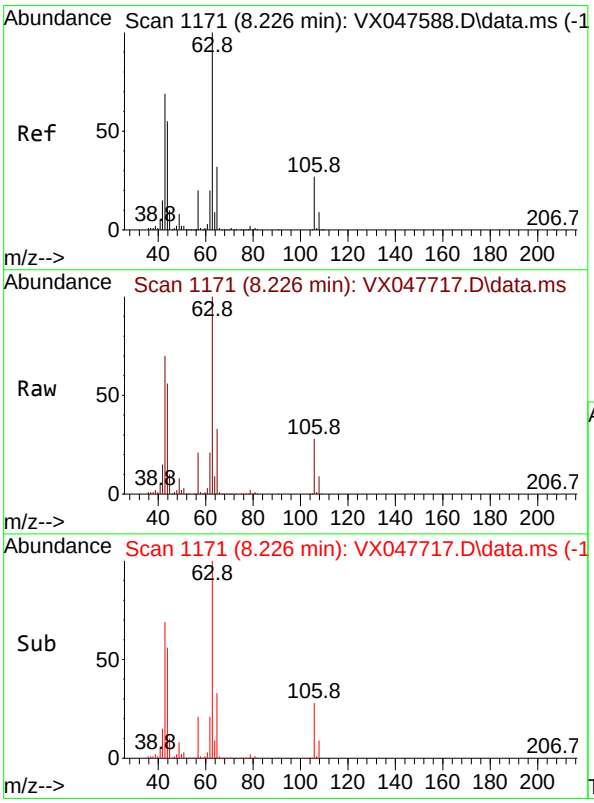
#57
1,3-Dichloropropane
Concen: 53.280 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 179432

Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.2	39.4

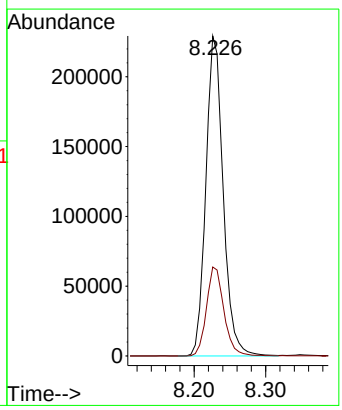


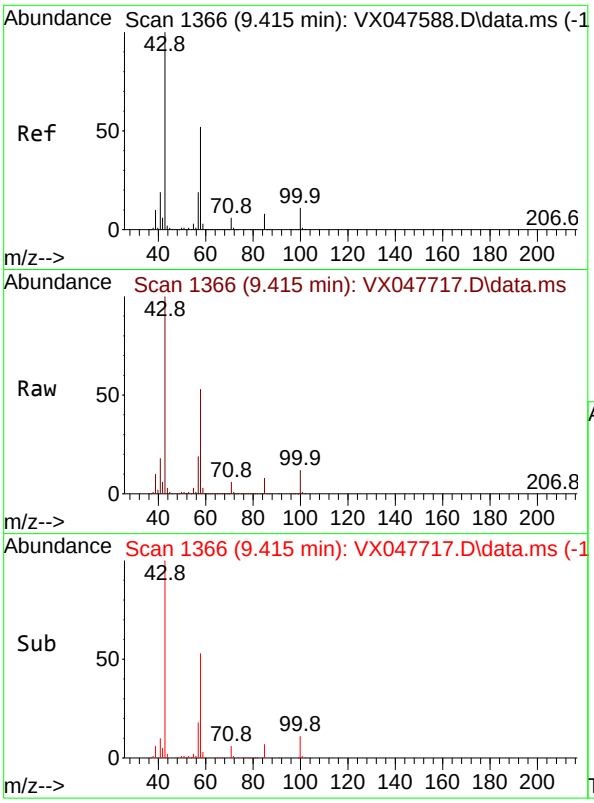


#58
2-Chloroethyl Vinyl ether
Concen: 261.171 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 63 Resp: 385340

Ion	Ratio	Lower	Upper
63	100		
106	28.1	21.9	32.9



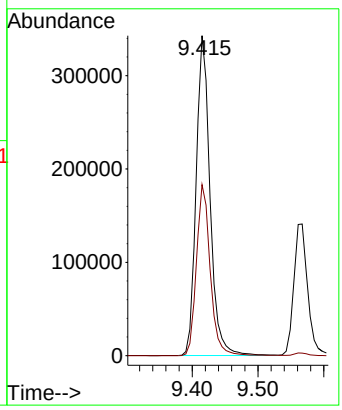


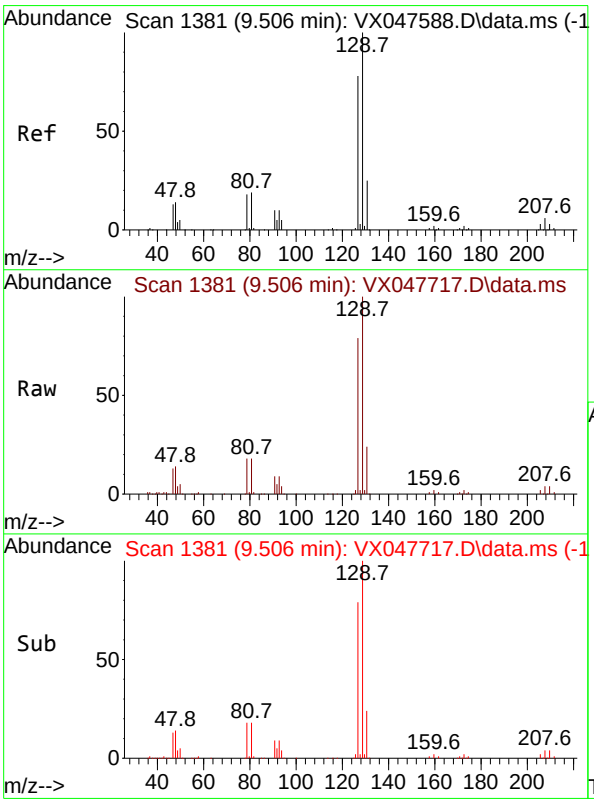
#59
2-Hexanone
Concen: 265.041 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 503551

Ion	Ratio	Lower	Upper
43	100		
58	53.1	26.1	78.2

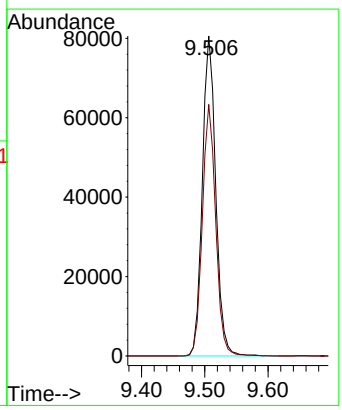


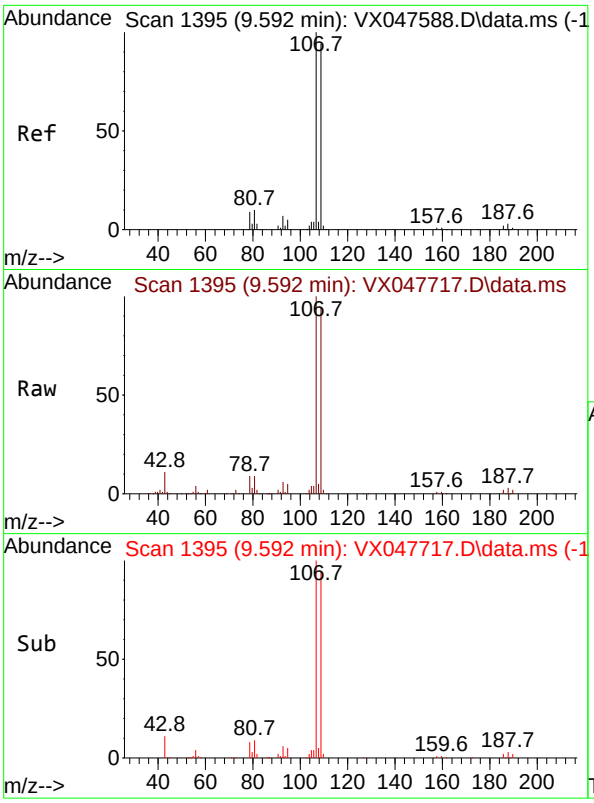


#60
Dibromochloromethane
Concen: 52.563 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:129 Resp: 118732

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.4	115.2



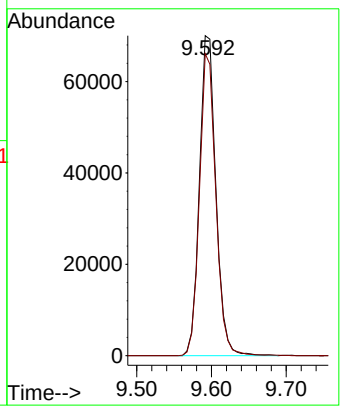


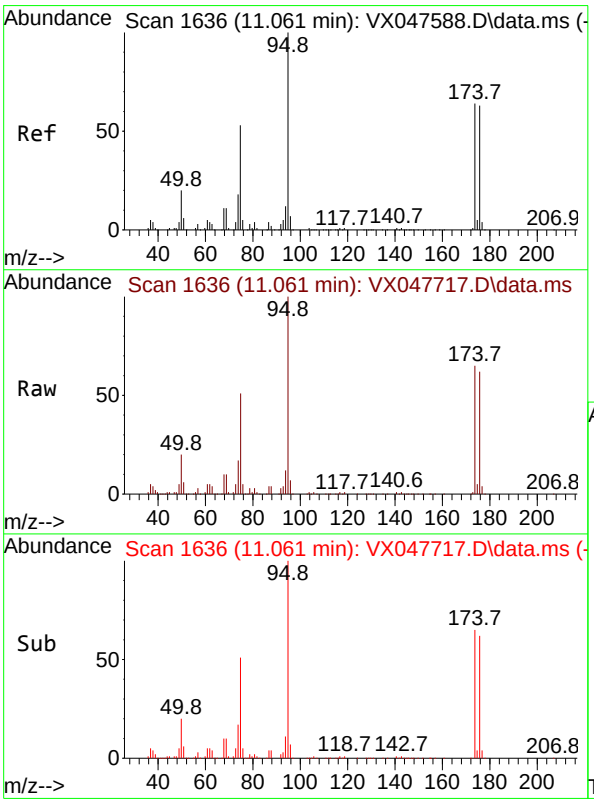
#61
1,2-Dibromoethane
Concen: 53.678 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 107185

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.3	112.9

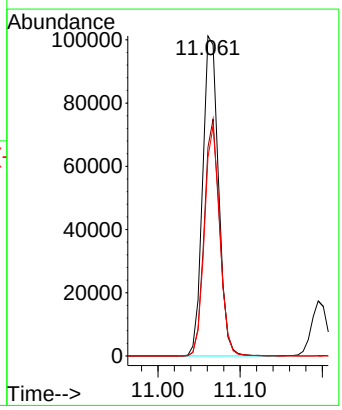


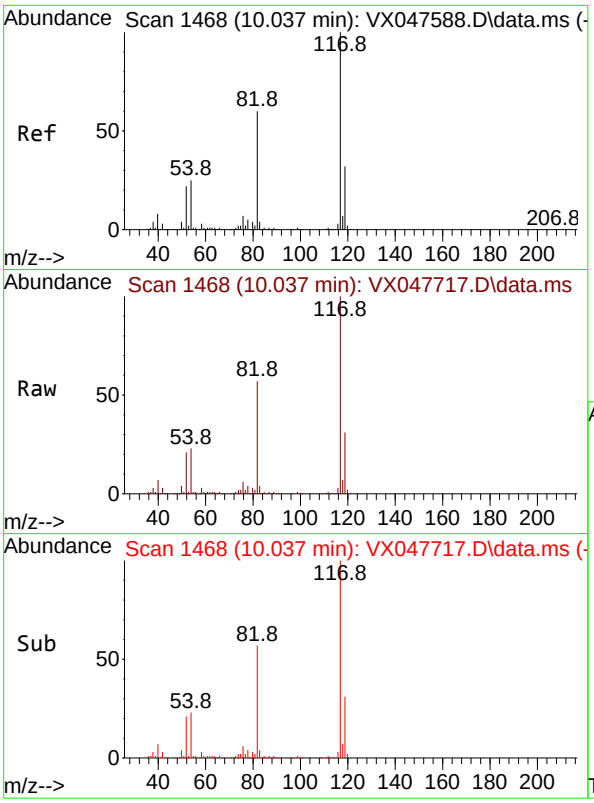


#62
4-Bromofluorobenzene
Concen: 55.527 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 95 Resp: 135585

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.6
176	69.8	0.0	138.4



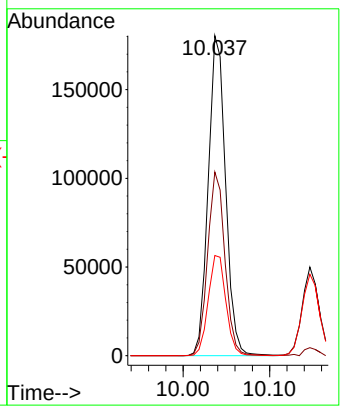


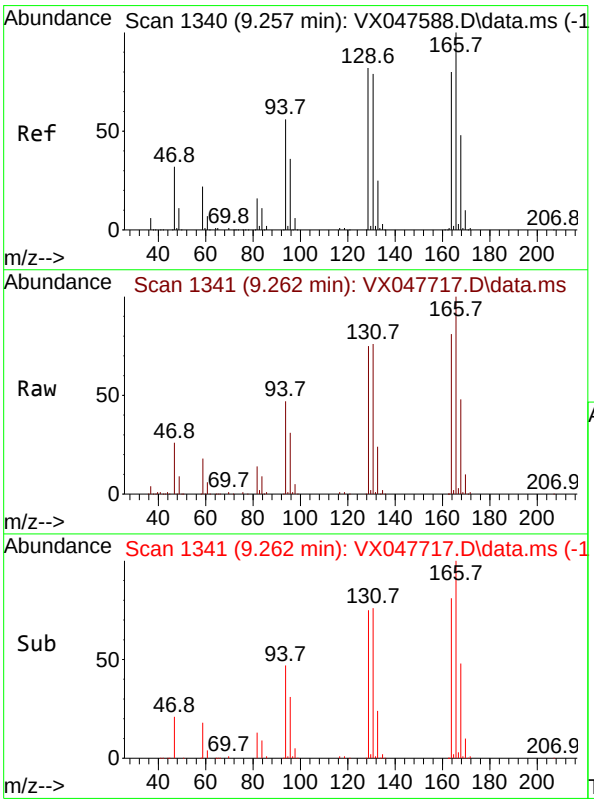
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 250939

Ion	Ratio	Lower	Upper
117	100		
82	57.4	47.8	71.6
119	31.3	25.2	37.8

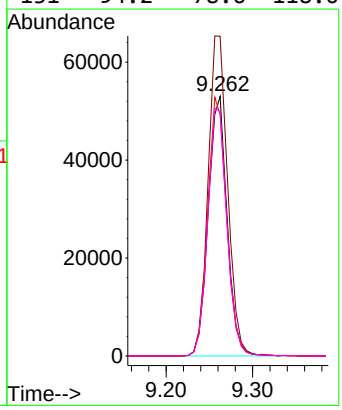


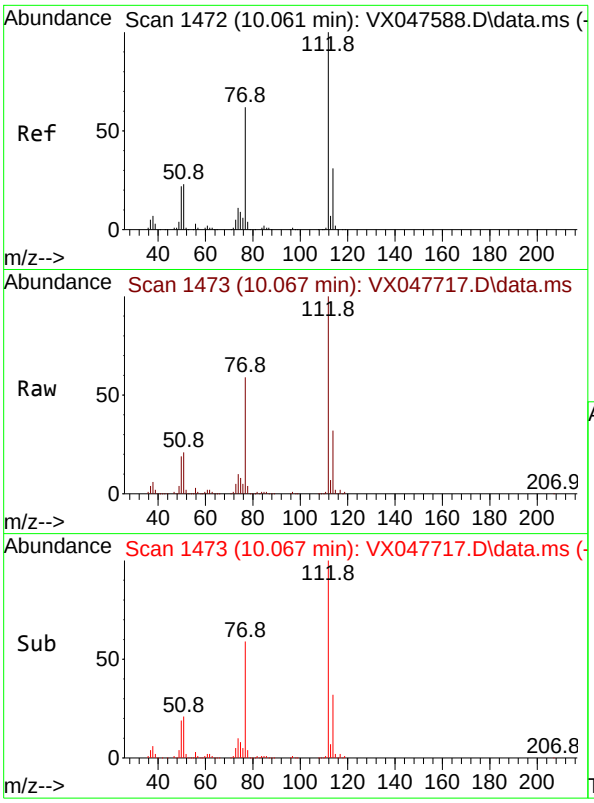


#64
Tetrachloroethene
Concen: 48.896 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:164 Resp: 79987

Ion	Ratio	Lower	Upper
164	100		
166	123.2	100.2	150.2
129	92.9	81.8	122.6
131	94.2	78.6	118.0



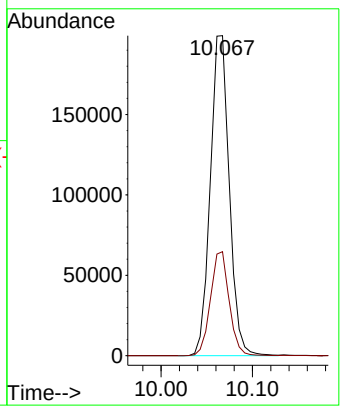


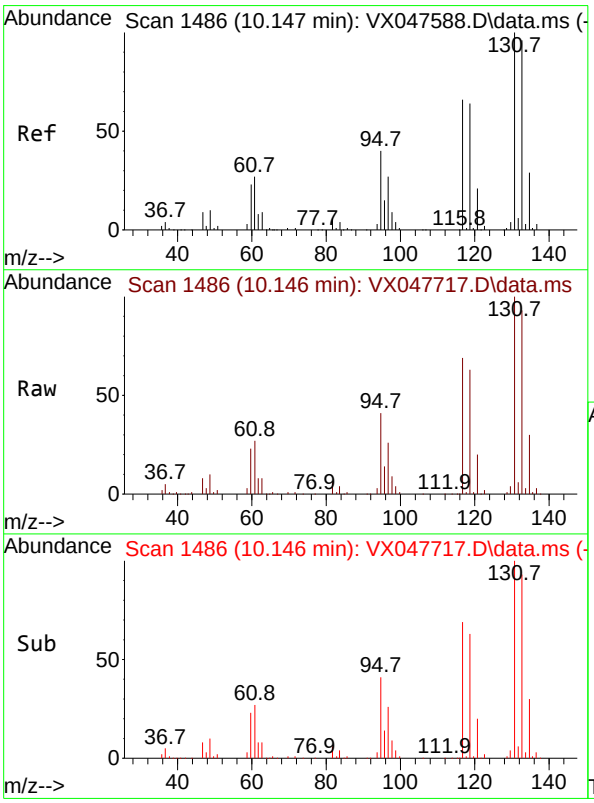
#65
Chlorobenzene
Concen: 50.265 ug/l
RT: 10.067 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 286551

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.1	37.7

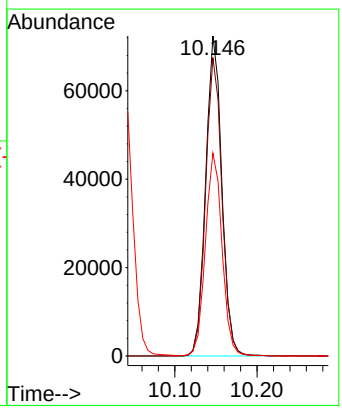


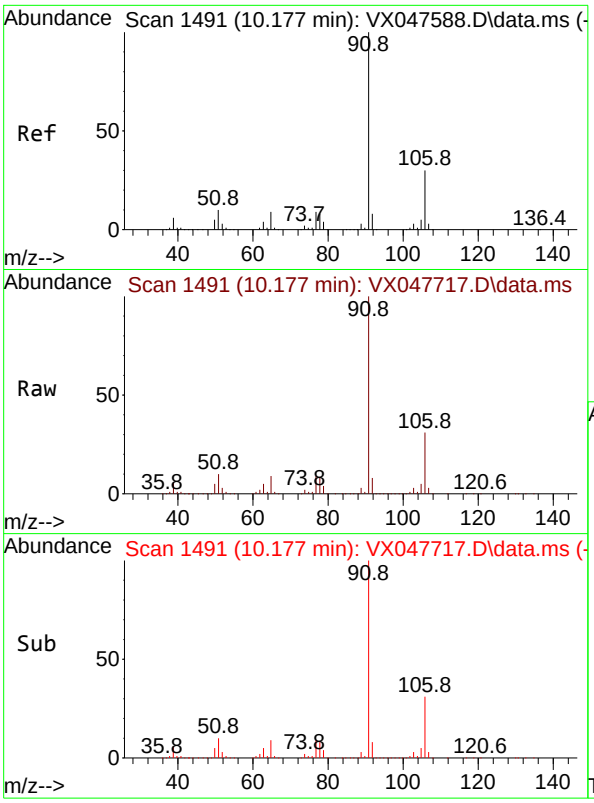


#66
1,1,1,2-Tetrachloroethane
Concen: 50.451 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:131 Resp: 99248

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	142.0
119	65.1	32.0	96.0



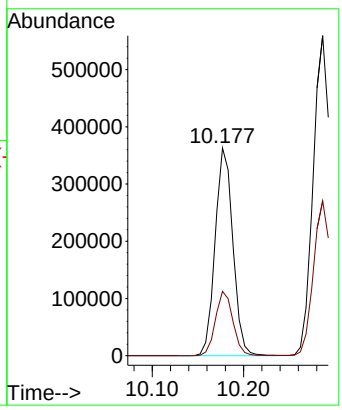


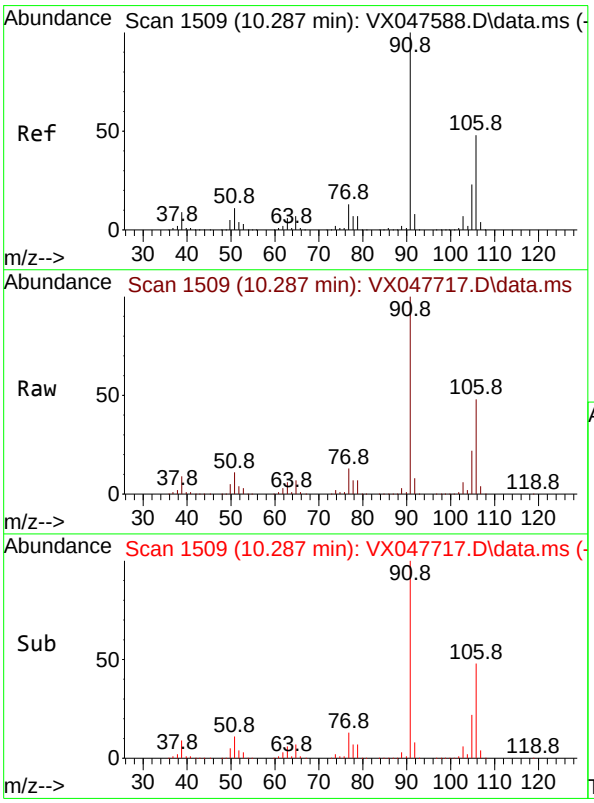
#67
Ethyl Benzene
Concen: 49.786 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 489716

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.3	36.5

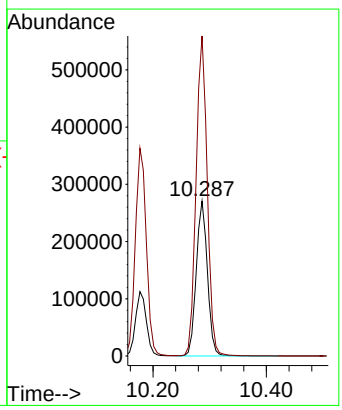


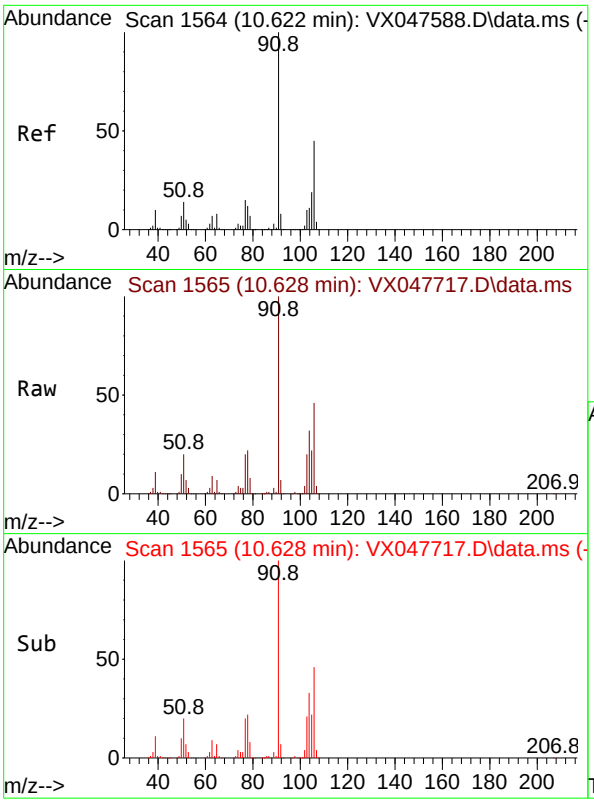


#68
m/p-Xylenes
Concen: 100.842 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:106 Resp: 369200

Ion	Ratio	Lower	Upper
106	100		
91	206.6	167.8	251.8



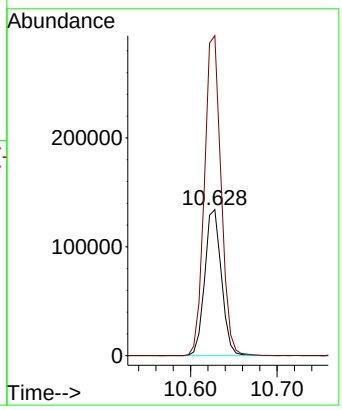


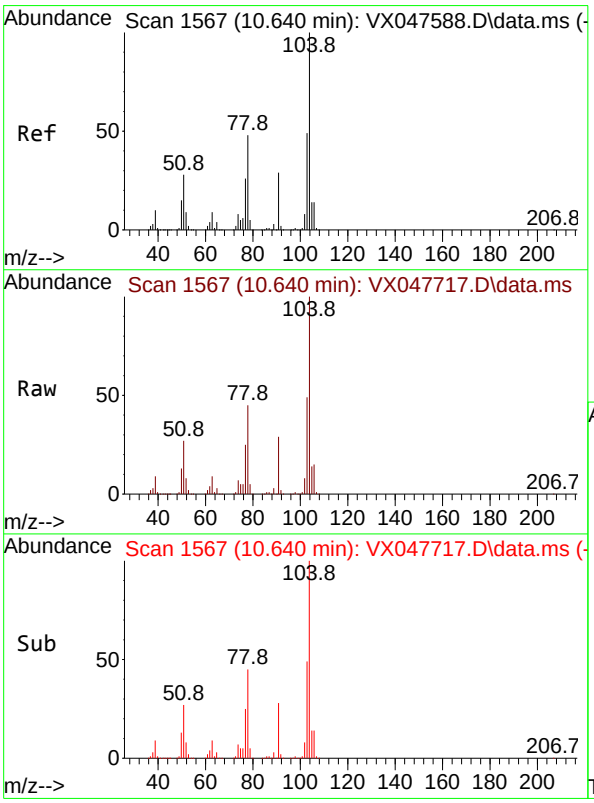
#69
o-Xylene
Concen: 50.827 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 179991

Ion	Ratio	Lower	Upper
106	100		
91	218.4	111.1	333.4

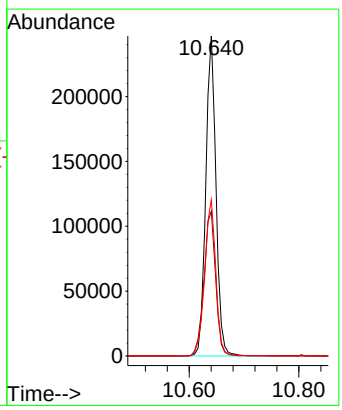


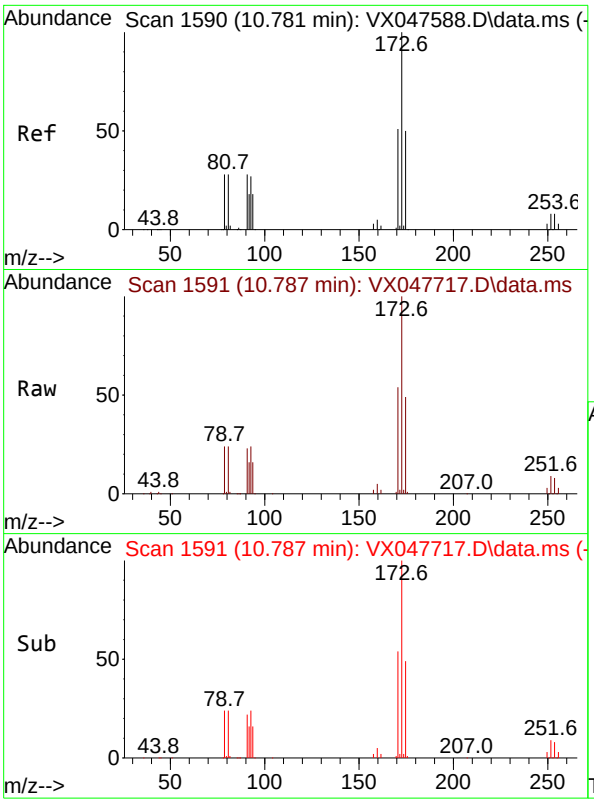


#70
Styrene
Concen: 51.041 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:104 Resp: 316706

Ion	Ratio	Lower	Upper
104	100		
78	52.0	43.1	64.7
103	53.5	43.1	64.7



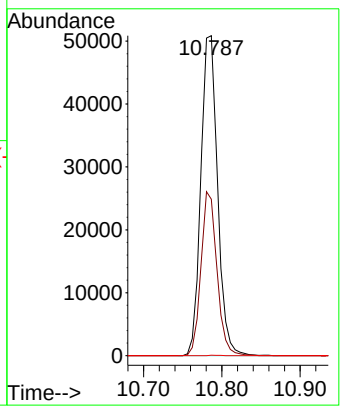


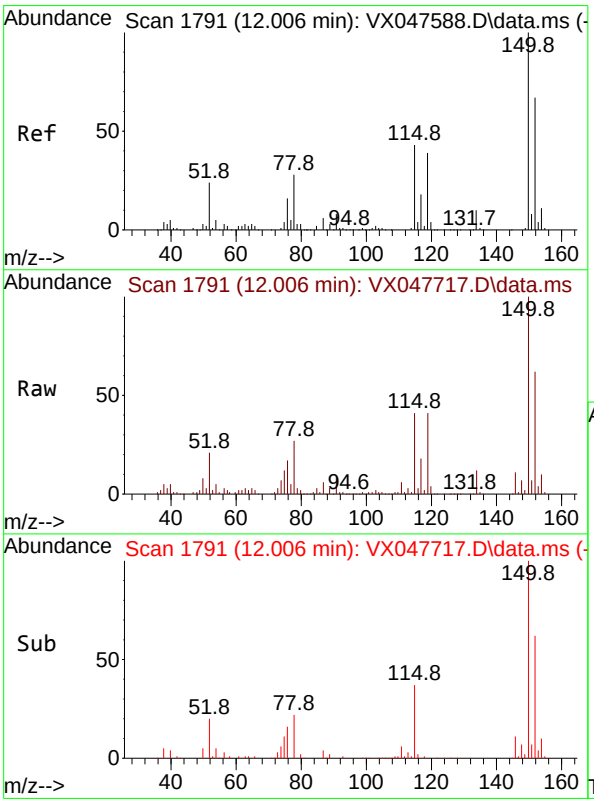
#71
Bromoform
Concen: 51.349 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 75426

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.9	74.6
254	0.1	0.1	0.1

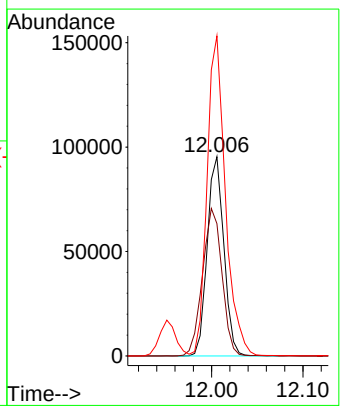


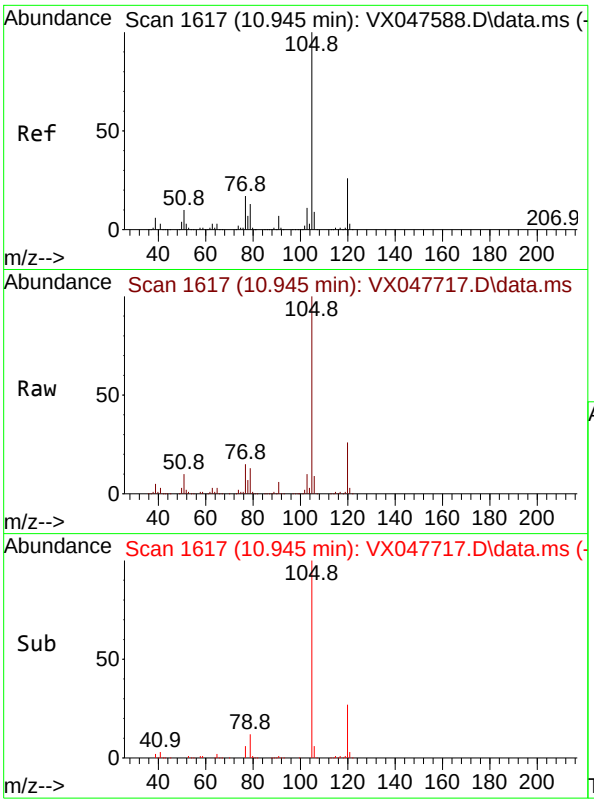


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:152 Resp: 120316

Ion	Ratio	Lower	Upper
152	100		
115	87.0	44.9	134.5
150	177.2	0.0	352.0



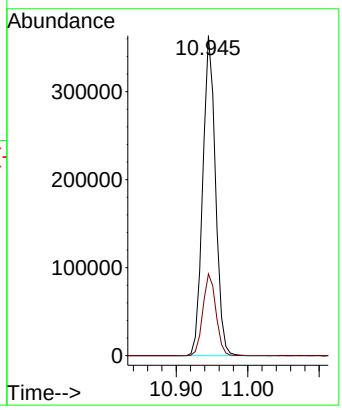


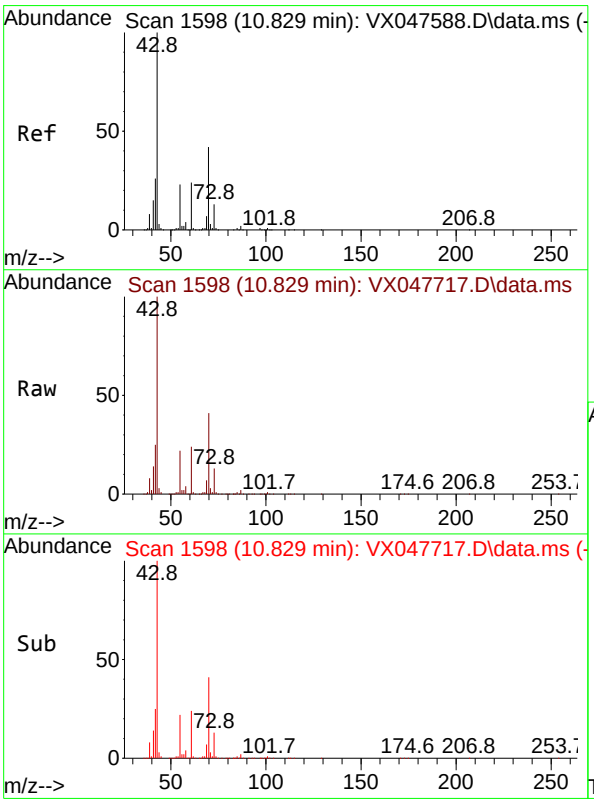
#73
Isopropylbenzene
Concen: 49.195 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 449995

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4

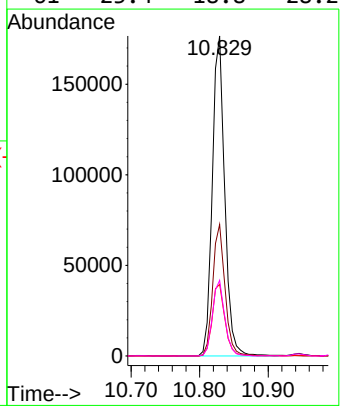


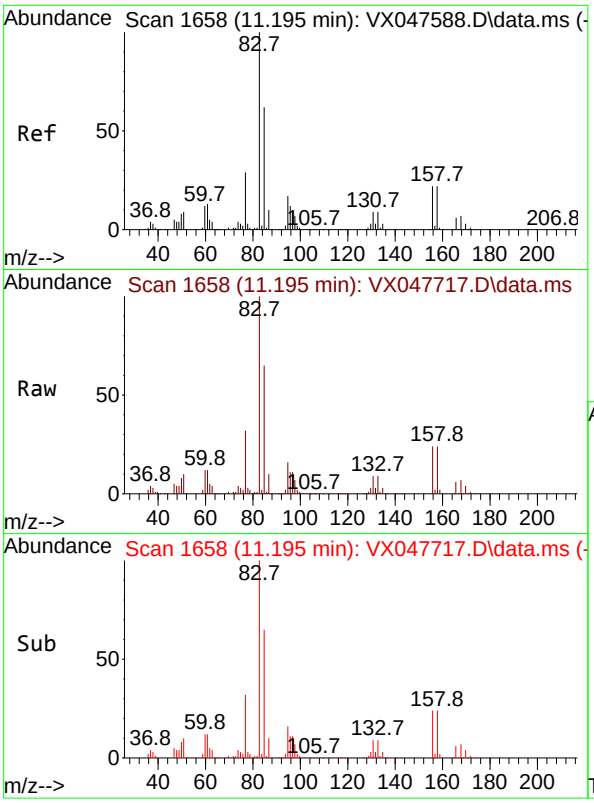


#74
N-amyl acetate
Concen: 53.334 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 43 Resp: 222470

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	23.0	18.9	28.3
61	23.4	18.8	28.2



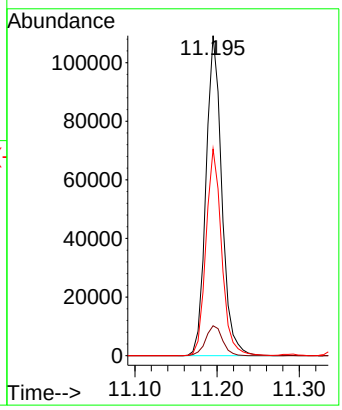


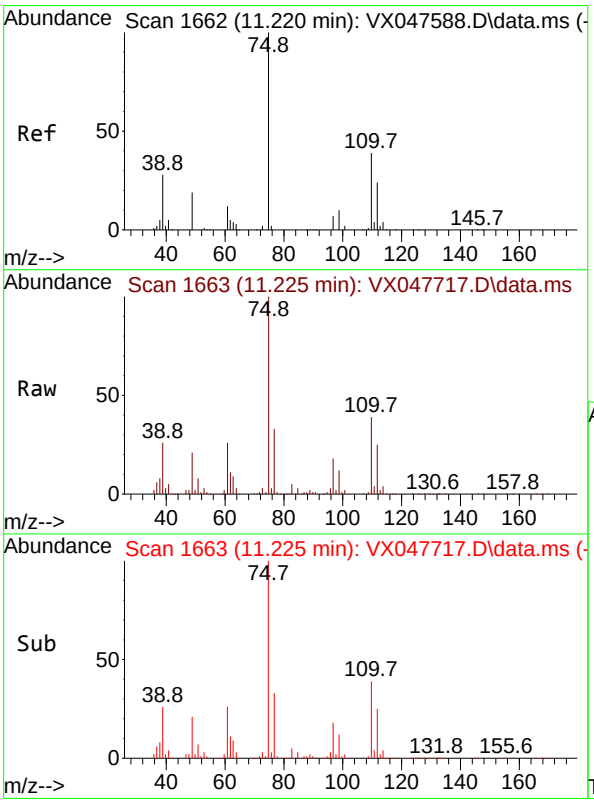
#75
1,1,2,2-Tetrachloroethane
Concen: 52.707 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 145865

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.0	31.6	95.0

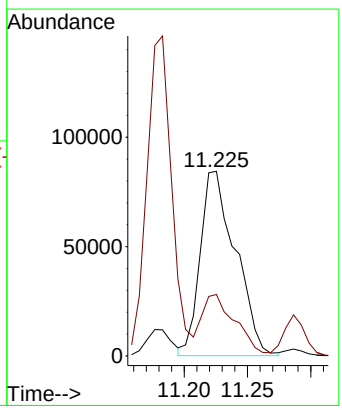


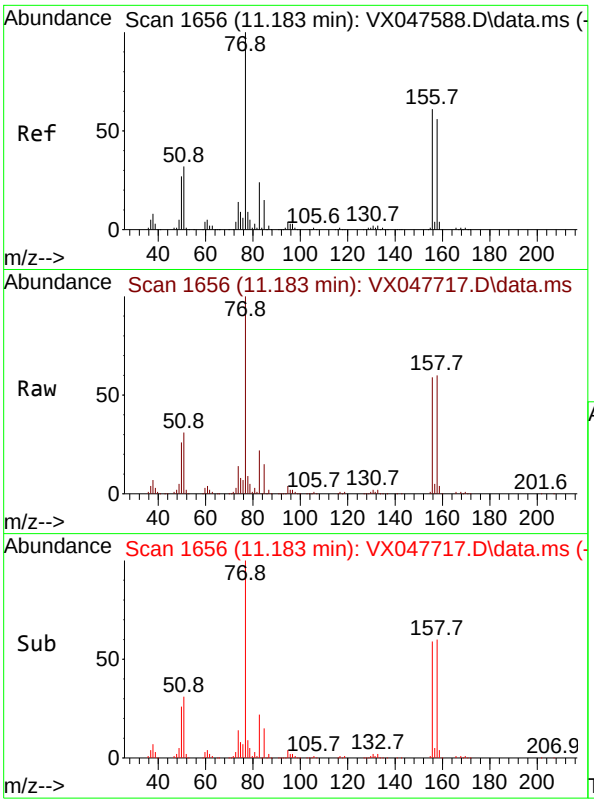


#76
1,2,3-Trichloropropane
Concen: 67.261 ug/l
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 163849

Ion	Ratio	Lower	Upper
75	100		
77	31.4	18.8	56.4



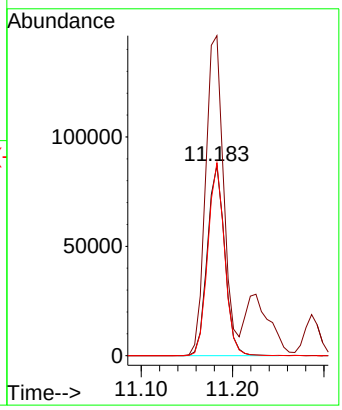


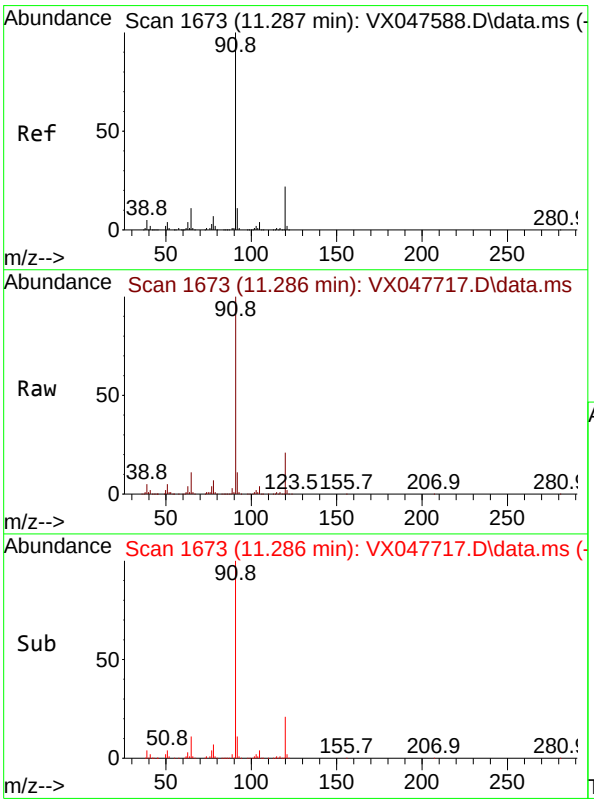
#77
Bromobenzene
Concen: 50.885 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 114639

Ion	Ratio	Lower	Upper
156	100		
77	175.4	89.7	269.1
158	98.0	47.9	143.6

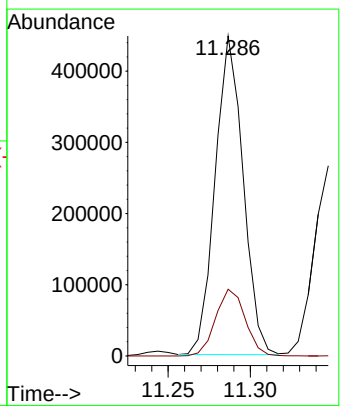


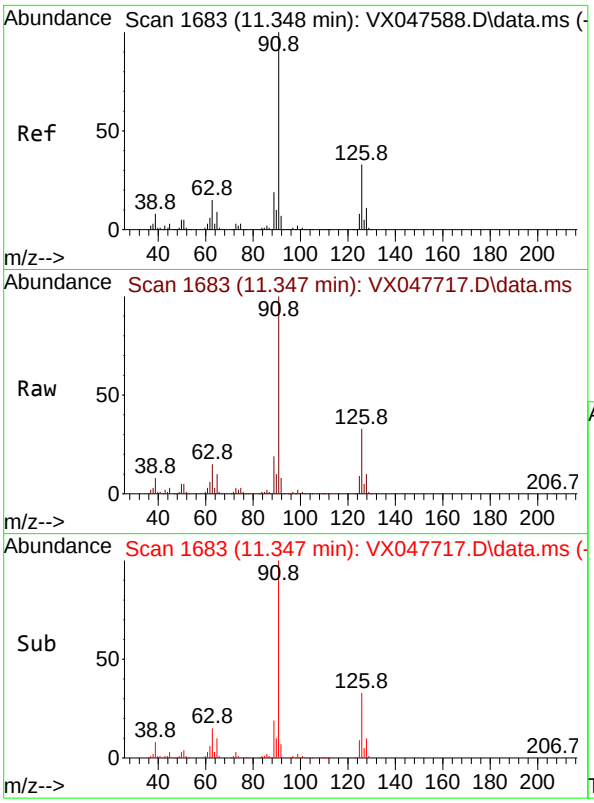


#78
n-propylbenzene
Concen: 48.949 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 91 Resp: 529287

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1



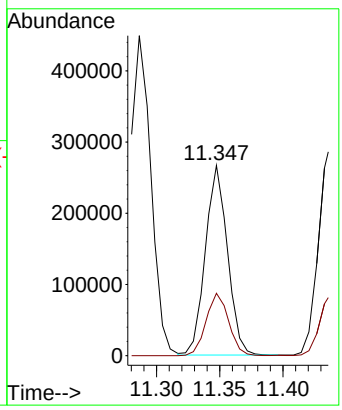


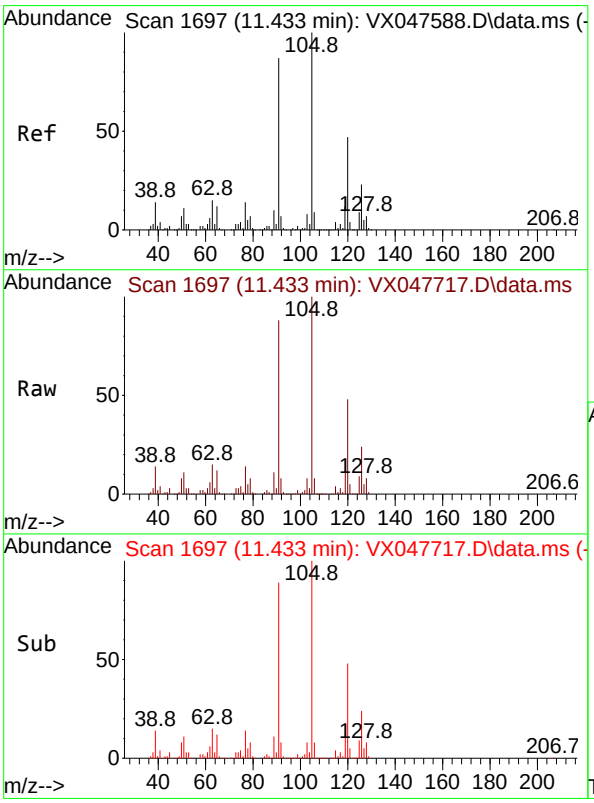
#79
2-Chlorotoluene
Concen: 48.889 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 323780

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.1	48.3

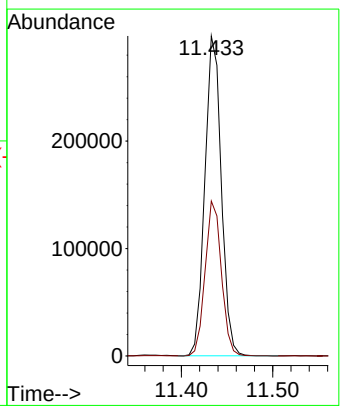


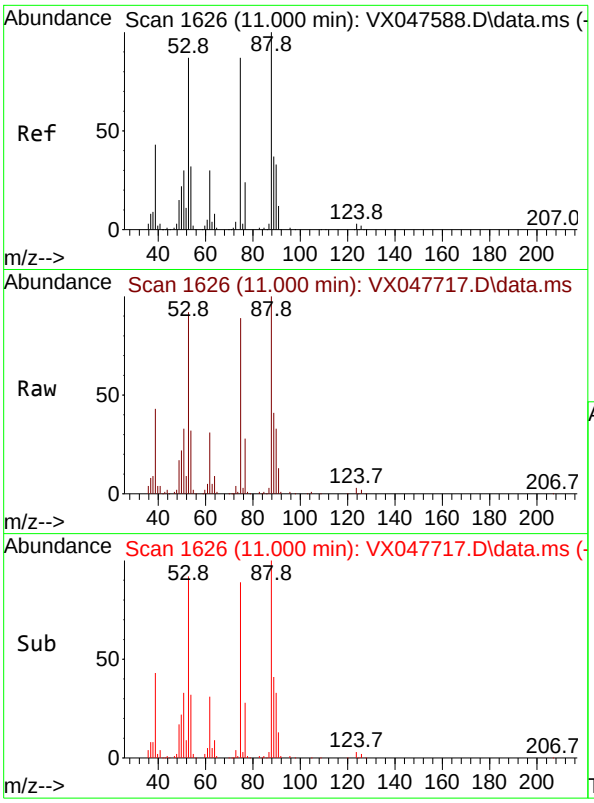


#80
1,3,5-Trimethylbenzene
Concen: 49.314 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:105 Resp: 370606

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.6	70.8



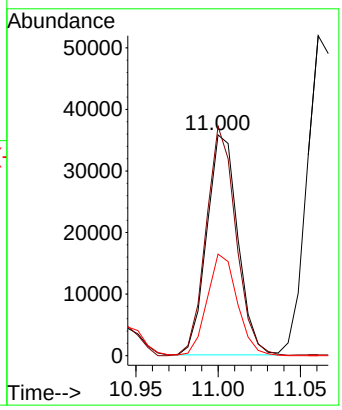


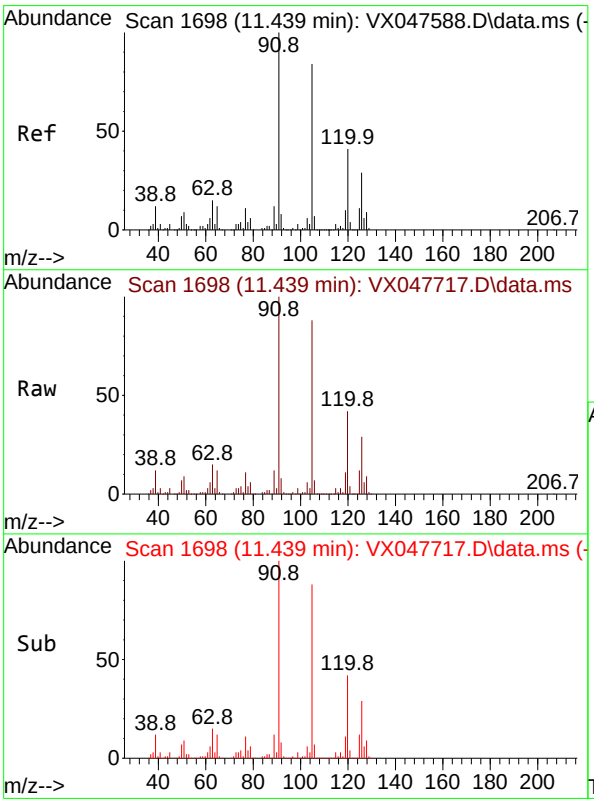
#81
trans-1,4-Dichloro-2-butene
Concen: 49.137 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 46938

Ion	Ratio	Lower	Upper
75	100		
53	100.5	83.4	125.2
89	44.9	36.3	54.5

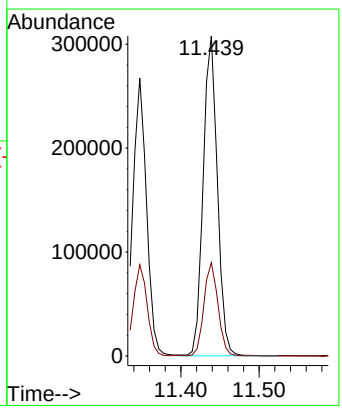


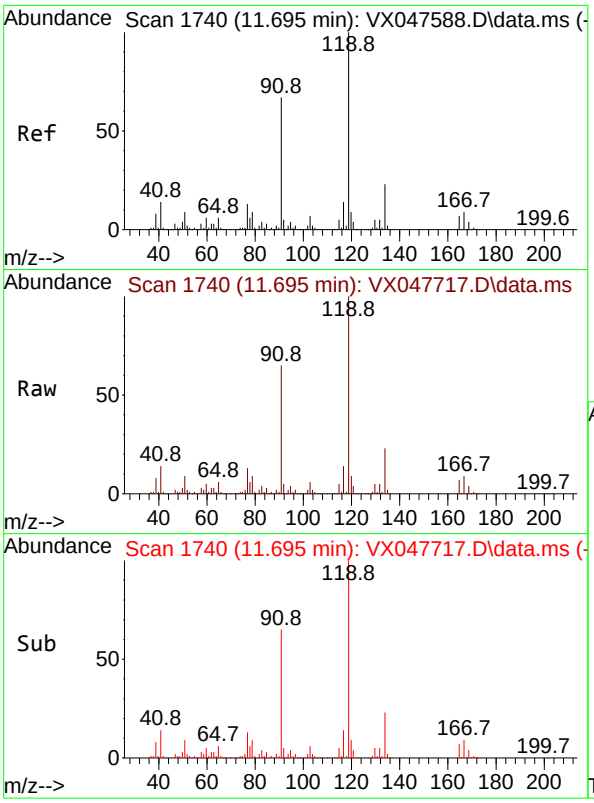


#82
4-Chlorotoluene
Concen: 49.316 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 91 Resp: 385744

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6



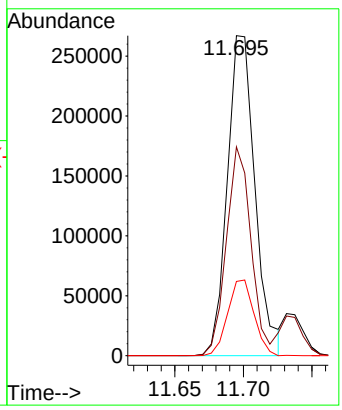


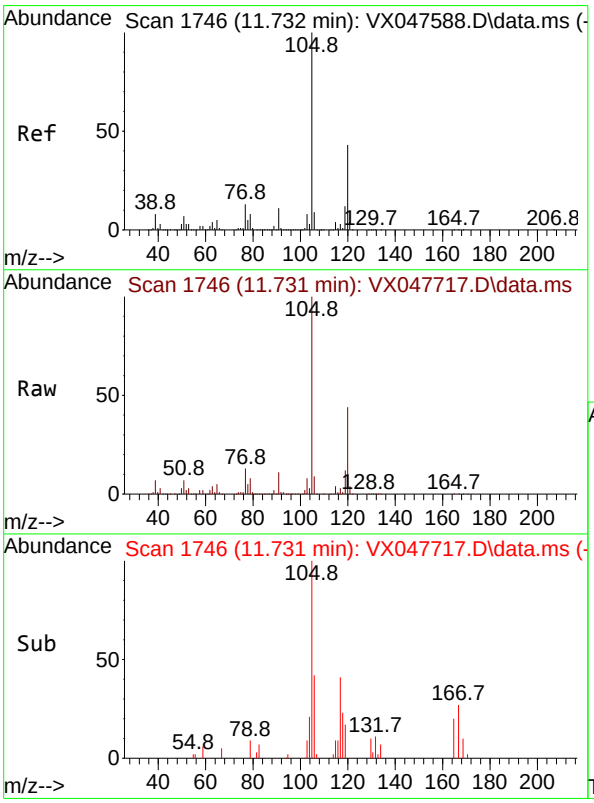
#83
tert-Butylbenzene
Concen: 48.830 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 375656

Ion	Ratio	Lower	Upper
119	100		
91	58.0	29.6	88.8
134	22.5	11.0	33.0

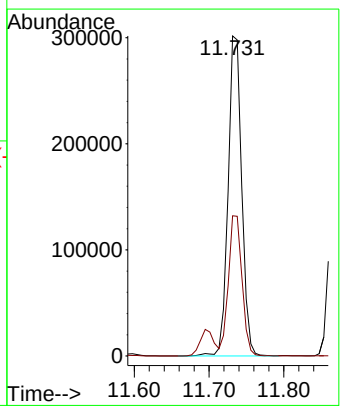


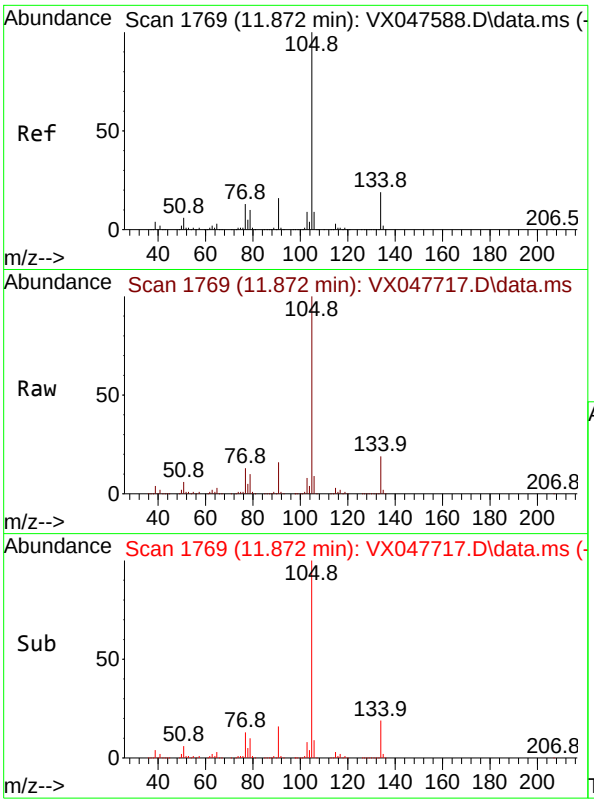


#84
1,2,4-Trimethylbenzene
Concen: 50.163 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:105 Resp: 382206

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1



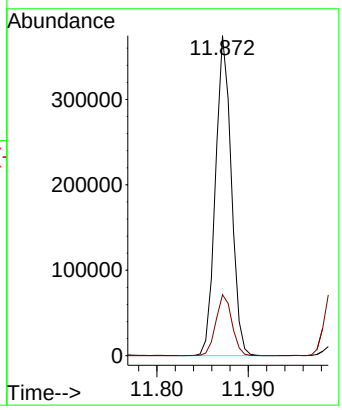


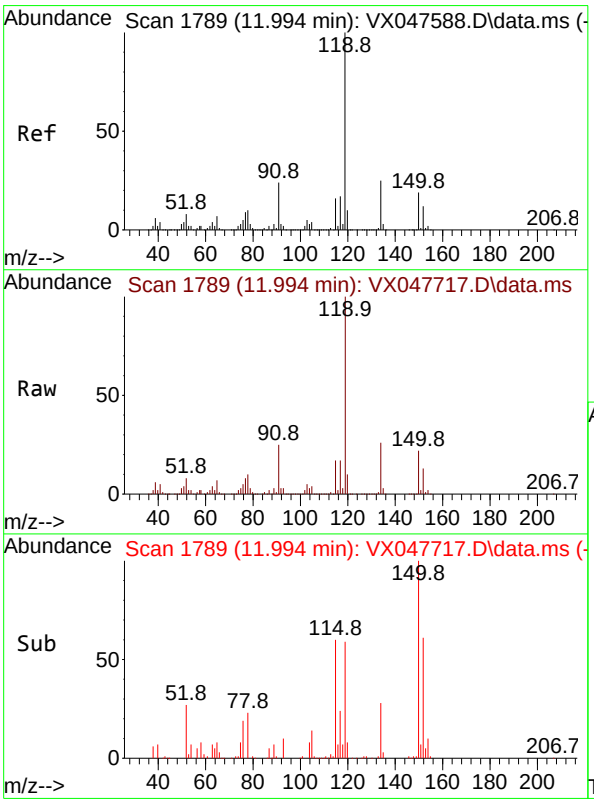
#85
sec-Butylbenzene
Concen: 49.293 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 450434

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

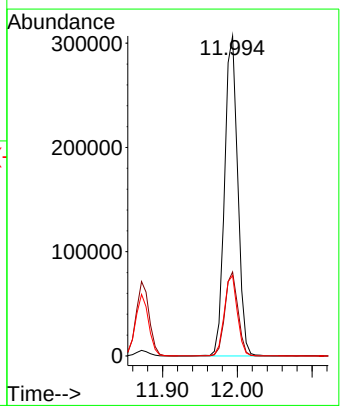


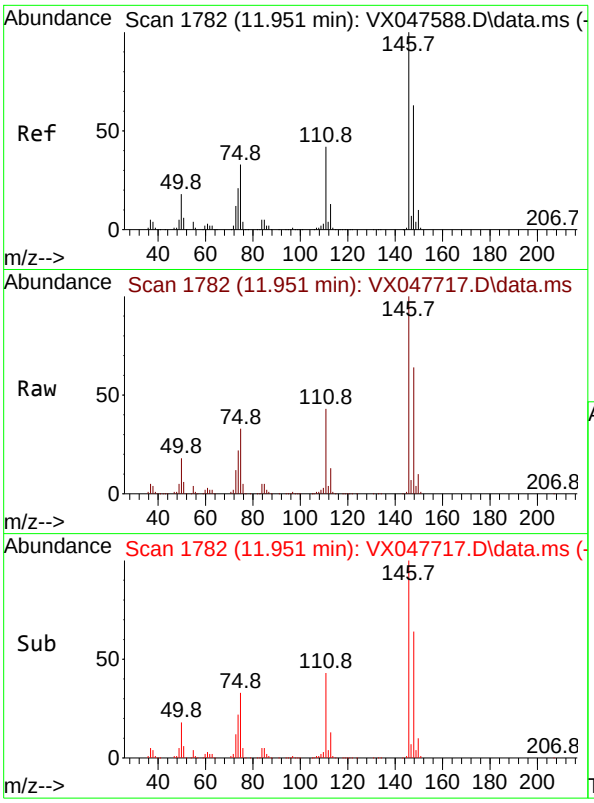


#86
p-Isopropyltoluene
Concen: 48.396 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:119 Resp: 374399

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	25.1	12.6	37.6



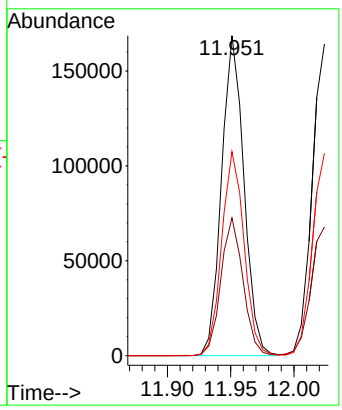


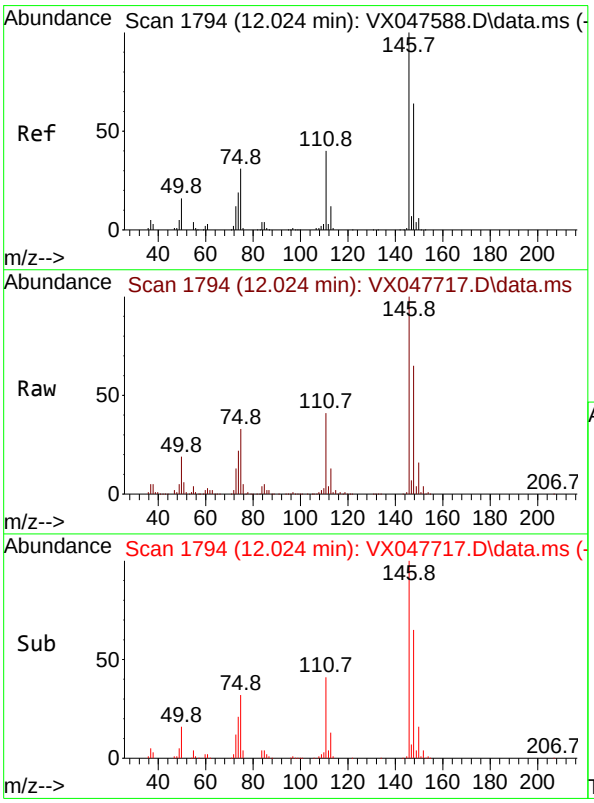
#87
1,3-Dichlorobenzene
Concen: 49.499 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 207129

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.5	64.5
148	63.9	32.0	96.0

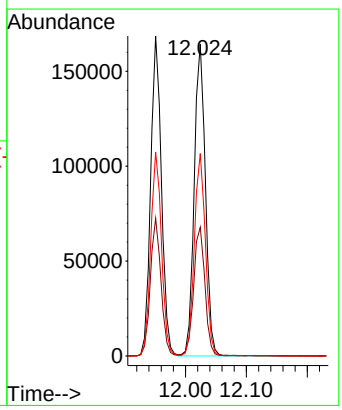


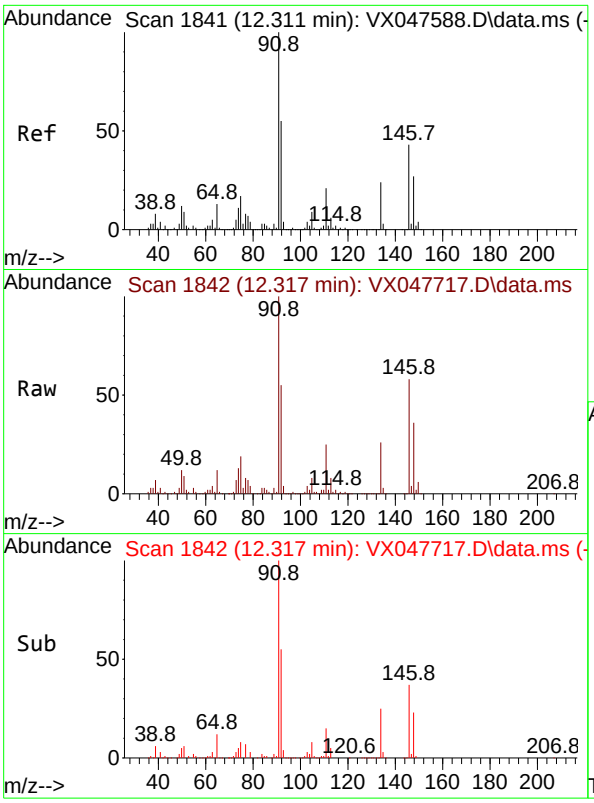


#88
1,4-Dichlorobenzene
Concen: 48.791 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:146 Resp: 209548

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	64.3	31.7	95.1



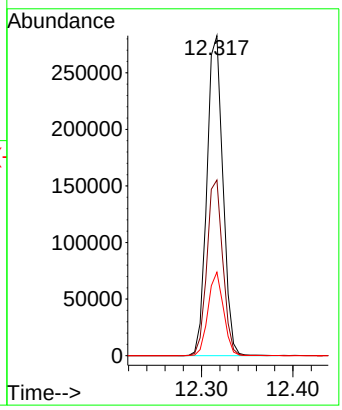


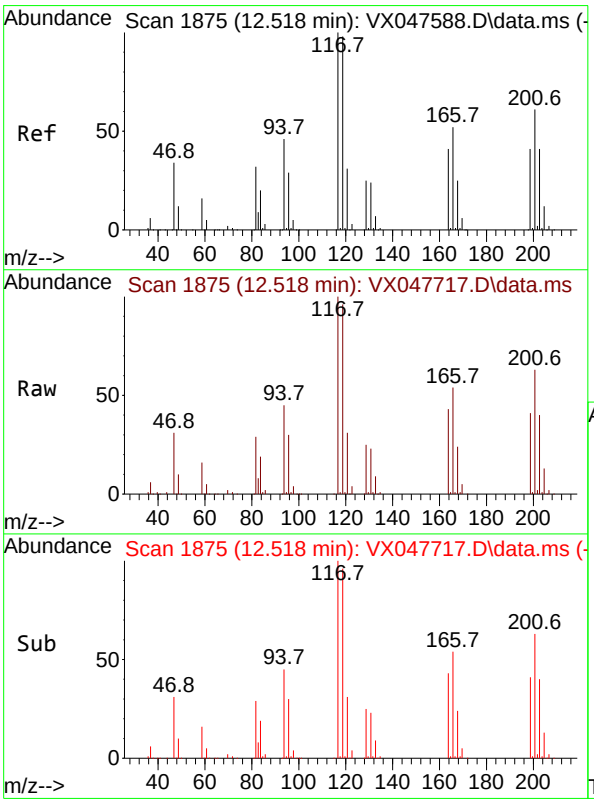
#89
n-Butylbenzene
Concen: 47.906 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 342927

Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.6	82.7
134	25.2	12.6	37.8

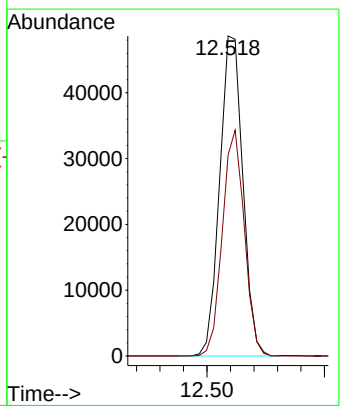


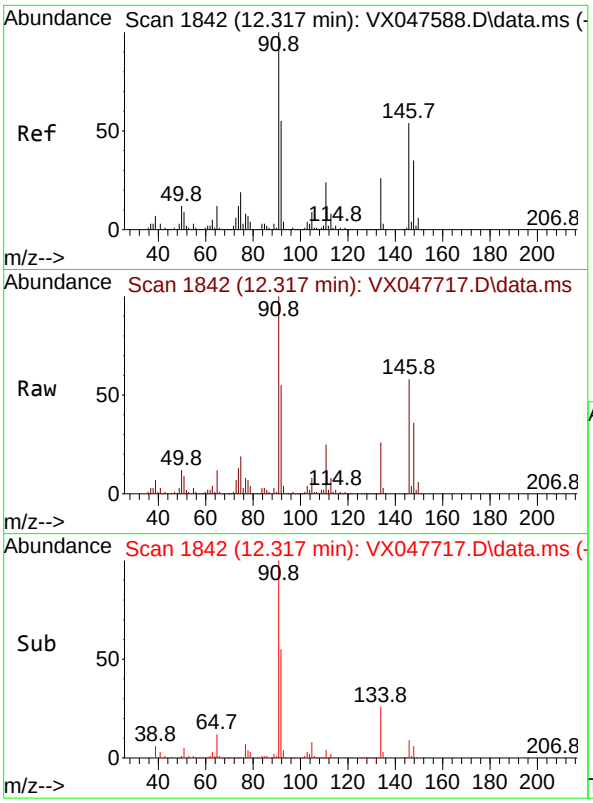


#90
Hexachloroethane
Concen: 48.974 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:117 Resp: 66519

Ion	Ratio	Lower	Upper
117	100		
201	67.1	34.2	102.5



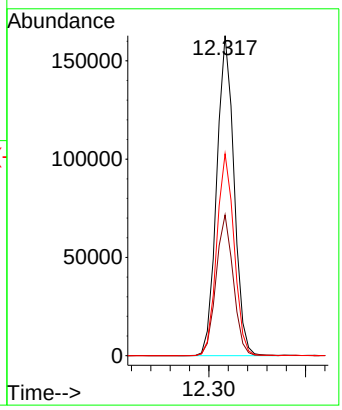


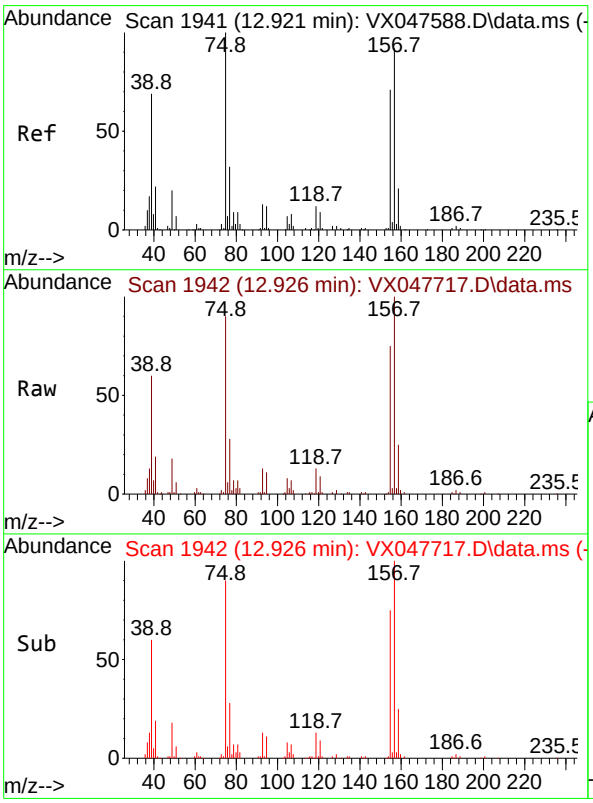
#91
1,2-Dichlorobenzene
Concen: 50.686 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 202068

Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.2	66.6
148	63.2	31.8	95.4

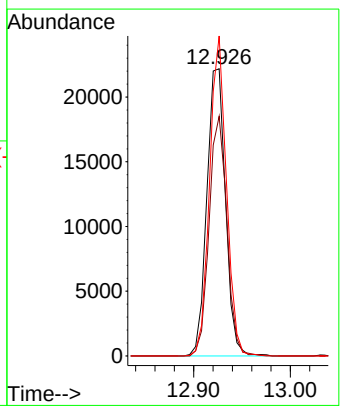


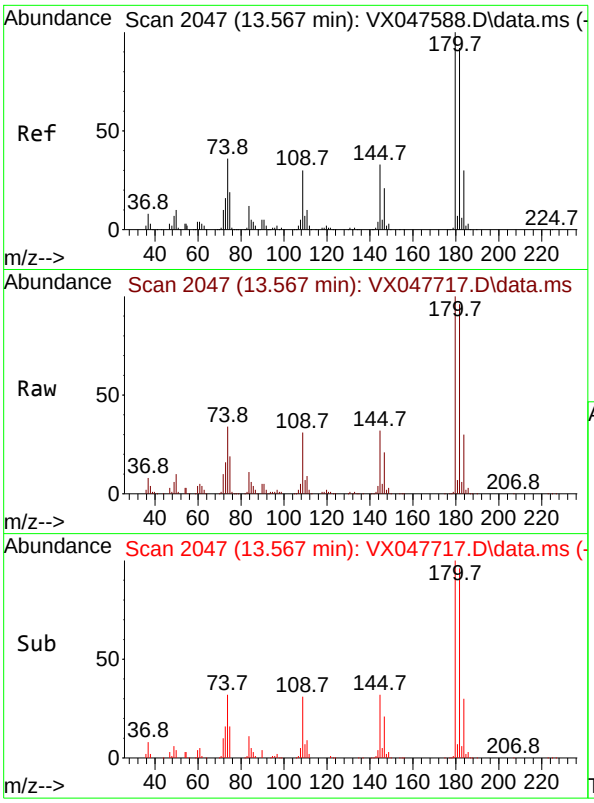


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.060 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion: 75 Resp: 29730

Ion	Ratio	Lower	Upper
75	100		
155	79.9	37.7	113.1
157	100.6	49.8	149.4



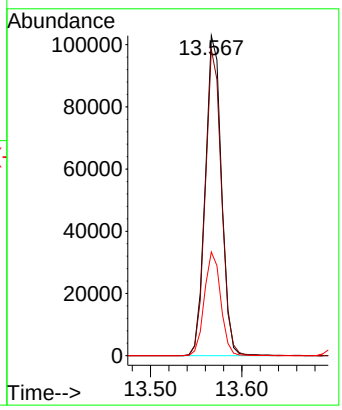


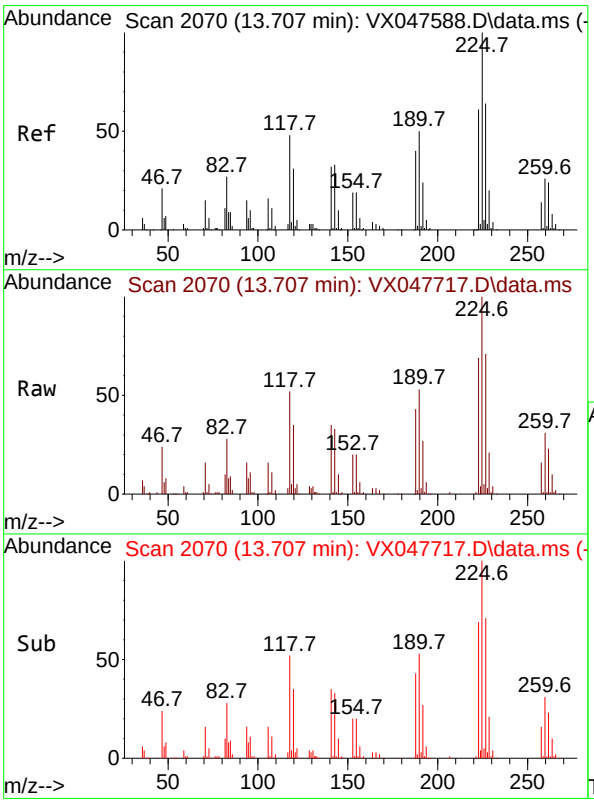
#93
1,2,4-Trichlorobenzene
Concen: 49.073 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 127145

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	32.5	16.4	49.1

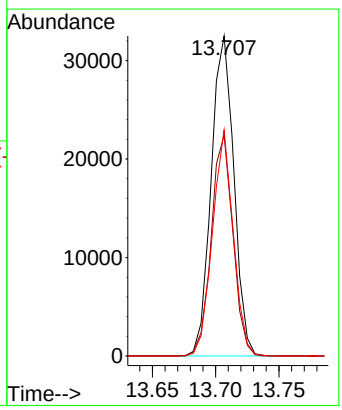


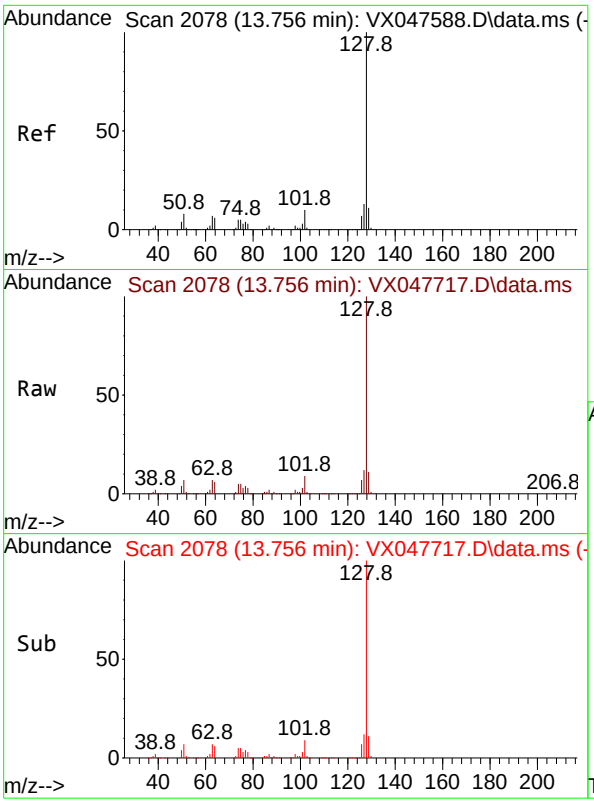


#94
Hexachlorobutadiene
Concen: 45.885 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:225 Resp: 40382

Ion	Ratio	Lower	Upper
225	100		
223	65.9	31.7	95.1
227	65.1	32.0	96.0



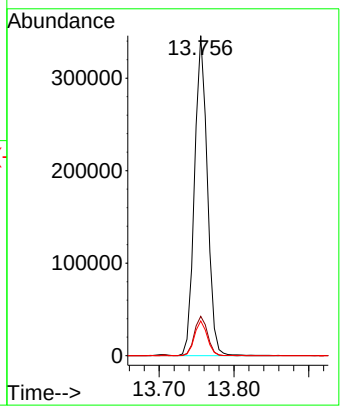


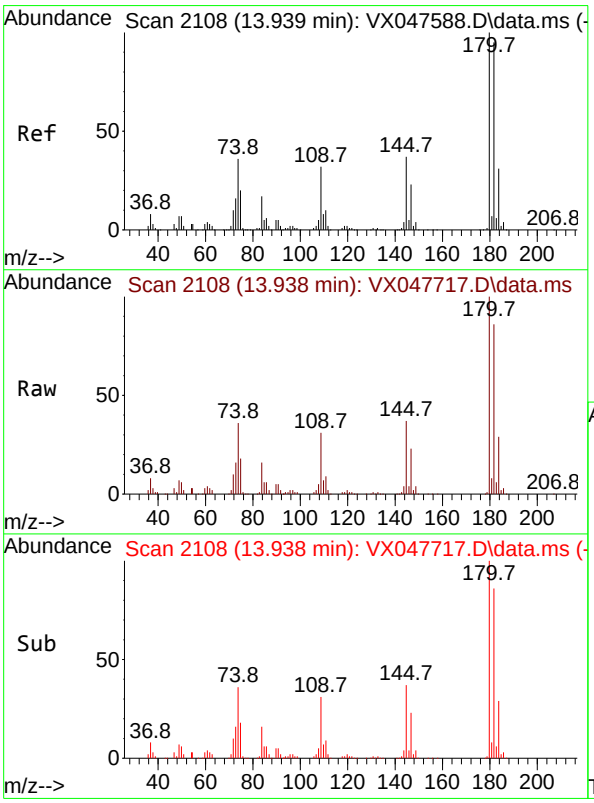
#95
Naphthalene
Concen: 52.169 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 411593

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.8	8.8	13.2

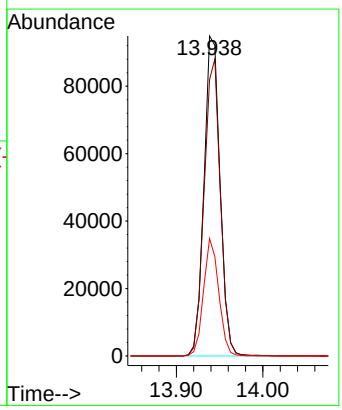




#96
1,2,3-Trichlorobenzene
Concen: 50.686 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047717.D
Acq: 22 Sep 2025 19:40

Tgt Ion:180 Resp: 122162

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	34.8	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	145672	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	265022	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	235703	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	115061	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	118904	51.280	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.560%			
35) Dibromofluoromethane	5.367	113	93243	52.461	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.920%			
50) Toluene-d8	8.628	98	318085	51.720	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.440%			
62) 4-Bromofluorobenzene	11.061	95	121543	52.073	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	95620	63.389	ug/l	97
3) Chloromethane	1.300	50	117705	59.371	ug/l	100
4) Vinyl Chloride	1.380	62	117260	60.422	ug/l	100
5) Bromomethane	1.617	94	77247	62.771	ug/l	97
6) Chloroethane	1.697	64	74922	57.762	ug/l	99
7) Trichlorofluoromethane	1.892	101	160825	55.813	ug/l	99
8) Diethyl Ether	2.136	74	67493	57.259	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	94692	56.200	ug/l	99
10) Methyl Iodide	2.453	142	152554	58.055	ug/l	100
11) Tert butyl alcohol	2.940	59	63172	244.621	ug/l	99
12) 1,1-Dichloroethene	2.325	96	98672	57.012	ug/l	97
13) Acrolein	2.233	56	67336	282.952	ug/l	97
14) Allyl chloride	2.666	41	195439	54.723	ug/l	98
15) Acrylonitrile	3.056	53	275014	287.505	ug/l	99
16) Acetone	2.373	43	282461	280.166	ug/l	98
17) Carbon Disulfide	2.514	76	276670	58.393	ug/l	99
18) Methyl Acetate	2.697	43	127158	56.673	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	357198	56.537	ug/l	99
20) Methylene Chloride	2.788	84	121247	56.815	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	107940	57.928	ug/l	96
22) Diisopropyl ether	3.751	45	393344	56.829	ug/l	100
23) Vinyl Acetate	3.709	43	1605465	289.816	ug/l	99
24) 1,1-Dichloroethane	3.605	63	207990	56.537	ug/l	99
25) 2-Butanone	4.532	43	347300	276.163	ug/l	98
26) 2,2-Dichloropropane	4.465	77	167410	54.744	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	131508	57.629	ug/l	98
28) Bromochloromethane	4.879	49	89169	55.520	ug/l	99
29) Tetrahydrofuran	4.983	42	207795	274.666	ug/l	99
30) Chloroform	5.074	83	210287	56.566	ug/l	98
31) Cyclohexane	5.458	56	166413	54.312	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	176453	55.958	ug/l	99
36) 1,1-Dichloropropene	5.678	75	136661	52.619	ug/l	98
37) Ethyl Acetate	4.696	43	148064	53.244	ug/l	99
38) Carbon Tetrachloride	5.666	117	148597	52.659	ug/l	96
39) Methylcyclohexane	7.360	83	158624	53.805	ug/l	99
40) Benzene	6.019	78	436446	55.328	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	78988	55.020	ug/l		99
42) 1,2-Dichloroethane	6.068	62	160490	53.472	ug/l		99
43) Isopropyl Acetate	6.318	43	246709	54.094	ug/l		100
44) Trichloroethene	7.104	130	106747	55.974	ug/l		93
45) 1,2-Dichloropropane	7.415	63	112815	55.852	ug/l		100
46) Dibromomethane	7.562	93	81231	55.264	ug/l		97
47) Bromodichloromethane	7.805	83	168096	55.419	ug/l		98
48) Methyl methacrylate	7.671	41	121390	53.434	ug/l		97
49) 1,4-Dioxane	7.641	88	28790	1254.001	ug/l		98
51) 4-Methyl-2-Pentanone	8.555	43	695707	275.127	ug/l		100
52) Toluene	8.702	92	269293	55.411	ug/l		98
53) t-1,3-Dichloropropene	8.958	75	174332	56.347	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	186621	56.434	ug/l		99
55) 1,1,2-Trichloroethane	9.134	97	104009	55.502	ug/l		99
56) Ethyl methacrylate	9.098	69	167018	56.751	ug/l		97
57) 1,3-Dichloropropane	9.293	76	182551	56.707	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	389211	274.956	ug/l		100
59) 2-Hexanone	9.415	43	495514	272.845	ug/l		99
60) Dibromochloromethane	9.506	129	123071	56.997	ug/l		98
61) 1,2-Dibromoethane	9.592	107	108549	56.870	ug/l		99
64) Tetrachloroethene	9.256	164	83230	54.167	ug/l		98
65) Chlorobenzene	10.061	112	293695	54.848	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.146	131	103750	56.149	ug/l		100
67) Ethyl Benzene	10.177	91	506854	54.859	ug/l		100
68) m/p-Xylenes	10.287	106	380464	110.636	ug/l		99
69) o-Xylene	10.622	106	186157	55.967	ug/l		99
70) Styrene	10.640	104	325724	55.888	ug/l		99
71) Bromoform	10.780	173	78229	56.699	ug/l	#	99
73) Isopropylbenzene	10.945	105	468503	53.558	ug/l		99
74) N-amyl acetate	10.823	43	216957	54.388	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	144143	54.463	ug/l		98
76) 1,2,3-Trichloropropane	11.219	75	162179	69.616	ug/l		88
77) Bromobenzene	11.183	156	118485	54.994	ug/l		96
78) n-propylbenzene	11.286	91	557613	53.923	ug/l		99
79) 2-Chlorotoluene	11.347	91	337904	53.352	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	387138	53.867	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	48023	52.569	ug/l		97
82) 4-Chlorotoluene	11.433	91	396717	53.035	ug/l		99
83) tert-Butylbenzene	11.695	119	390632	53.095	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	394502	54.142	ug/l		100
85) sec-Butylbenzene	11.872	105	468381	53.598	ug/l		100
86) p-Isopropyltoluene	11.988	119	395524	53.461	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	217150	54.263	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	217807	53.031	ug/l		99
89) n-Butylbenzene	12.311	91	364819	53.292	ug/l		99
90) Hexachloroethane	12.518	117	70085	53.956	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	210035	55.091	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	27679	51.656	ug/l		92
93) 1,2,4-Trichlorobenzene	13.567	180	132366	53.421	ug/l		98
94) Hexachlorobutadiene	13.707	225	44561	52.946	ug/l		99
95) Naphthalene	13.756	128	405500	53.744	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	126908	55.060	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

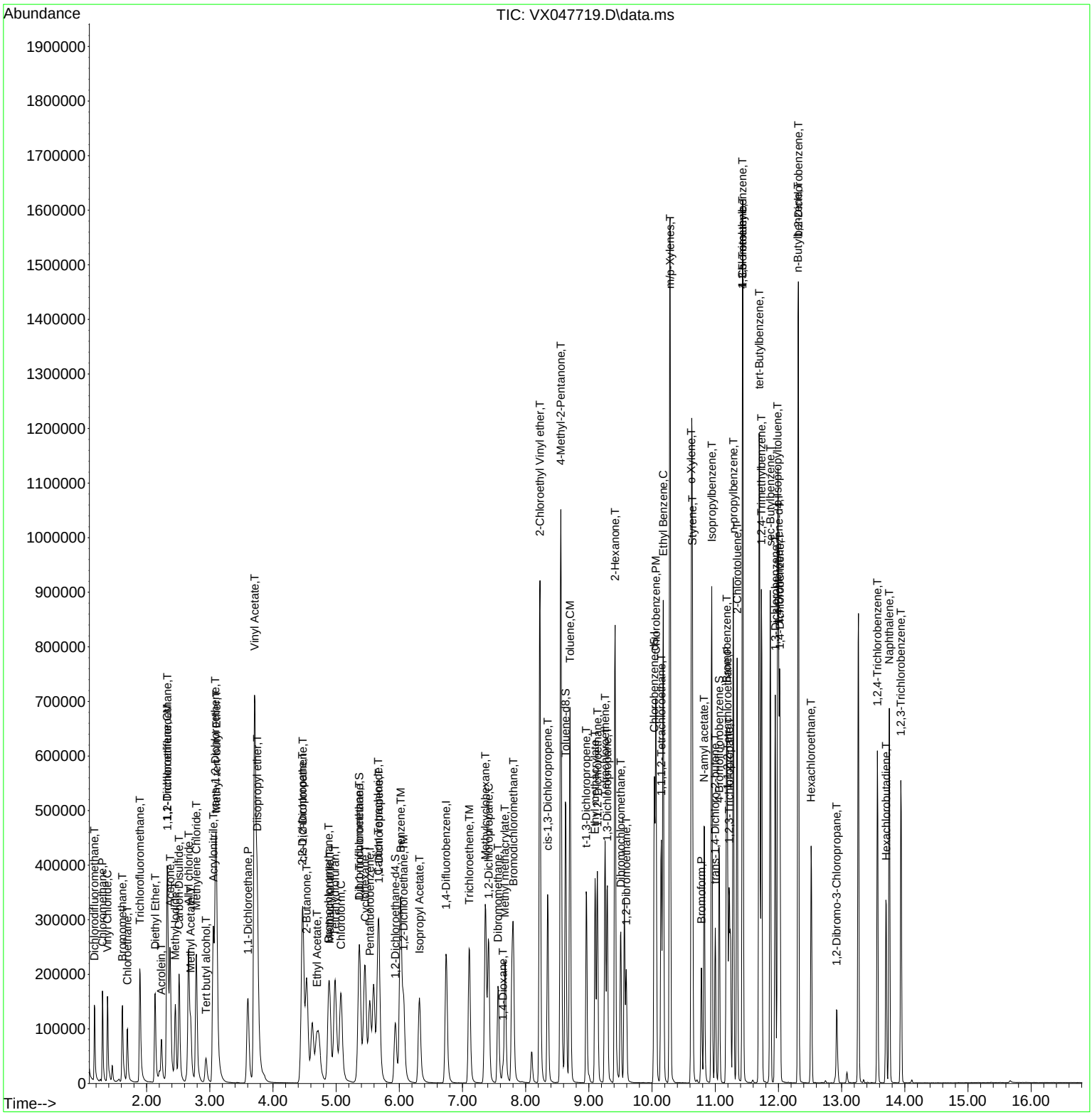
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

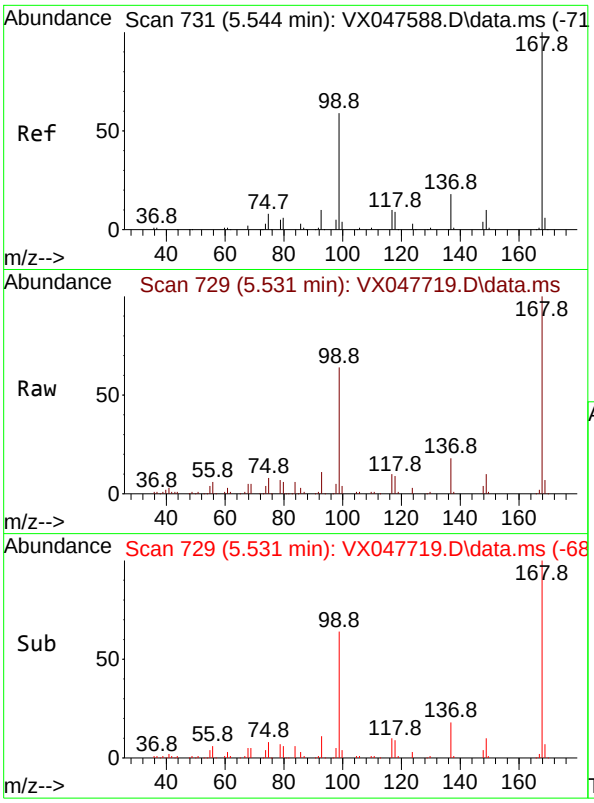
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047719.D
Acq On : 23 Sep 2025 09:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 01:25:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



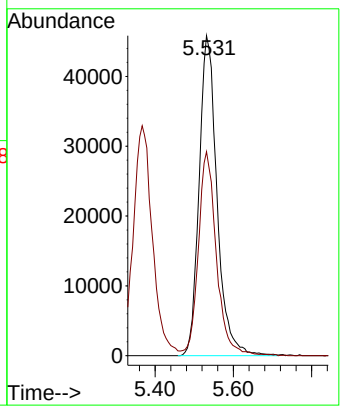


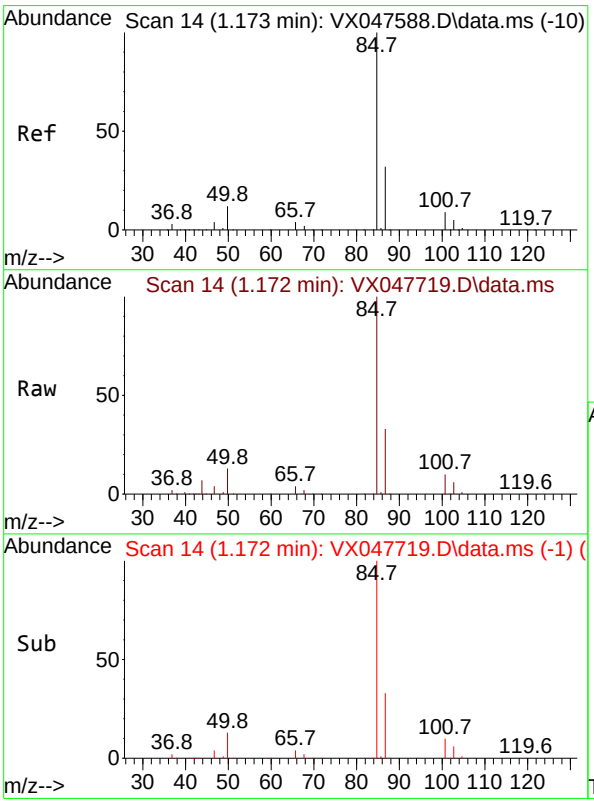
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 145672

Ion	Ratio	Lower	Upper
168	100		
99	63.8	48.8	73.2

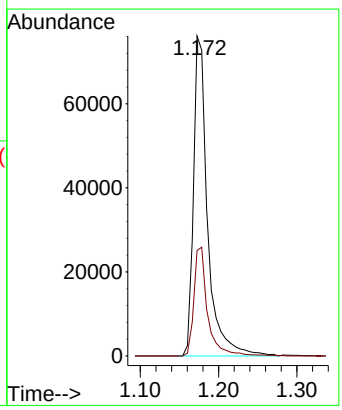


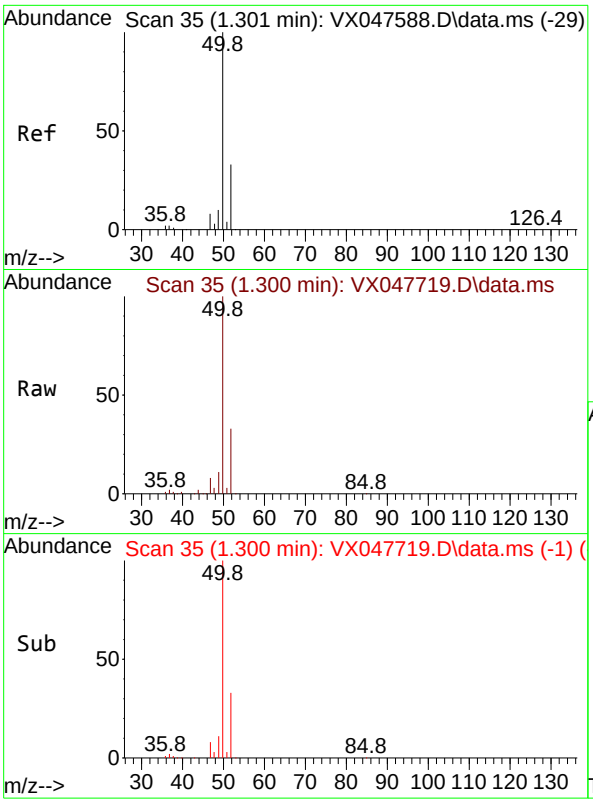


#2
Dichlorodifluoromethane
Concen: 63.389 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 85 Resp: 95620

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3



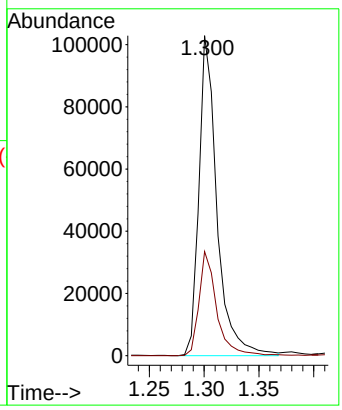


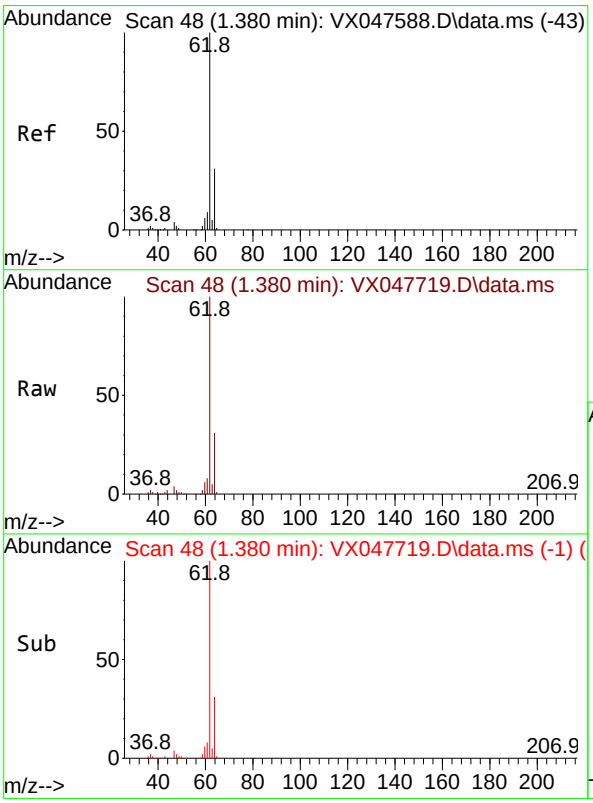
#3
Chloromethane
Concen: 59.371 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 117705

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1

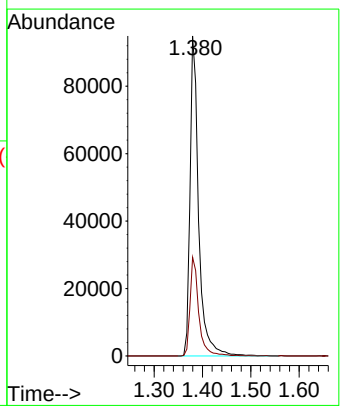


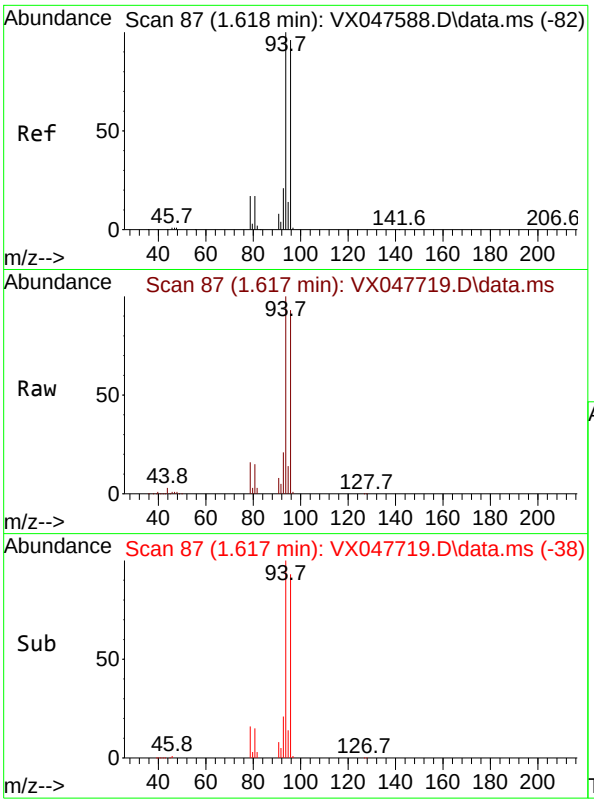


#4
Vinyl Chloride
Concen: 60.422 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 62 Resp: 117260

Ion	Ratio	Lower	Upper
62	100		
64	30.8	24.9	37.3



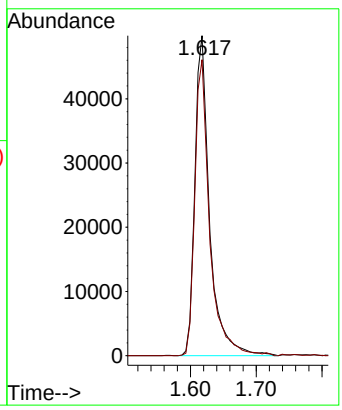


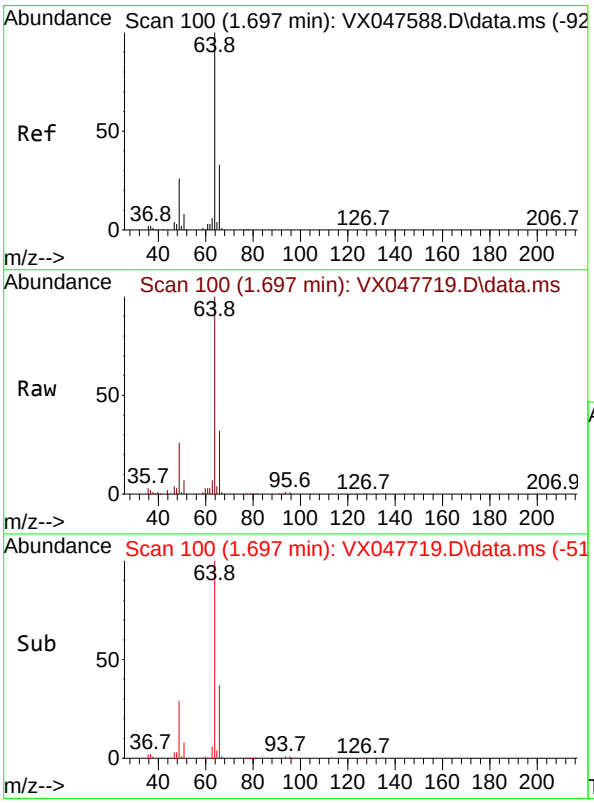
#5
Bromomethane
Concen: 62.771 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 77247

Ion	Ratio	Lower	Upper
94	100		
96	92.5	76.6	115.0

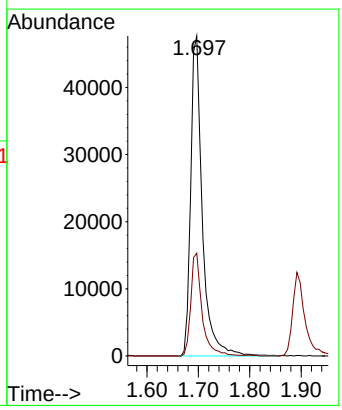


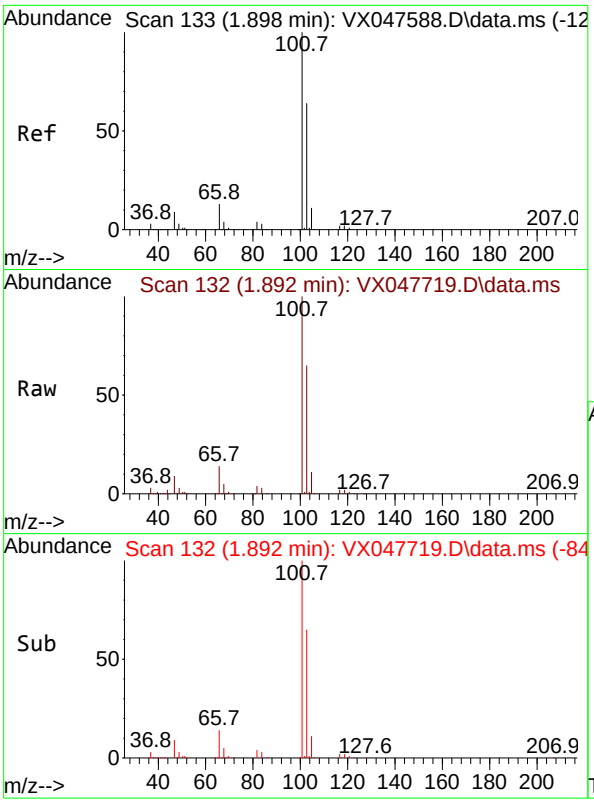


#6
Chloroethane
Concen: 57.762 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 64 Resp: 74922

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1



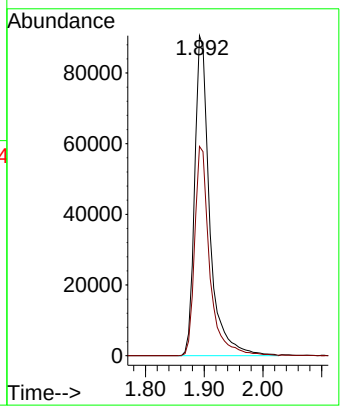


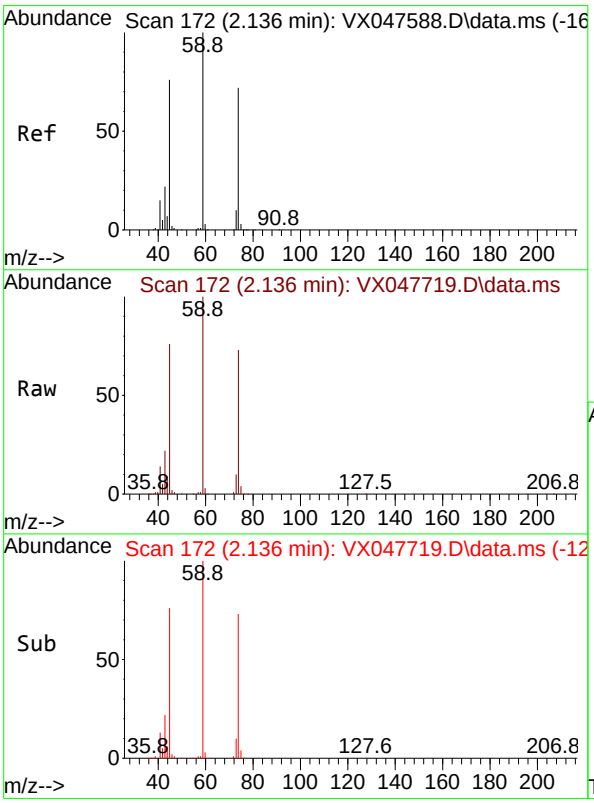
#7
Trichlorofluoromethane
Concen: 55.813 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 160825

Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.4	77.2

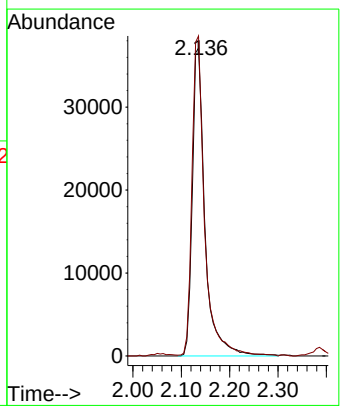


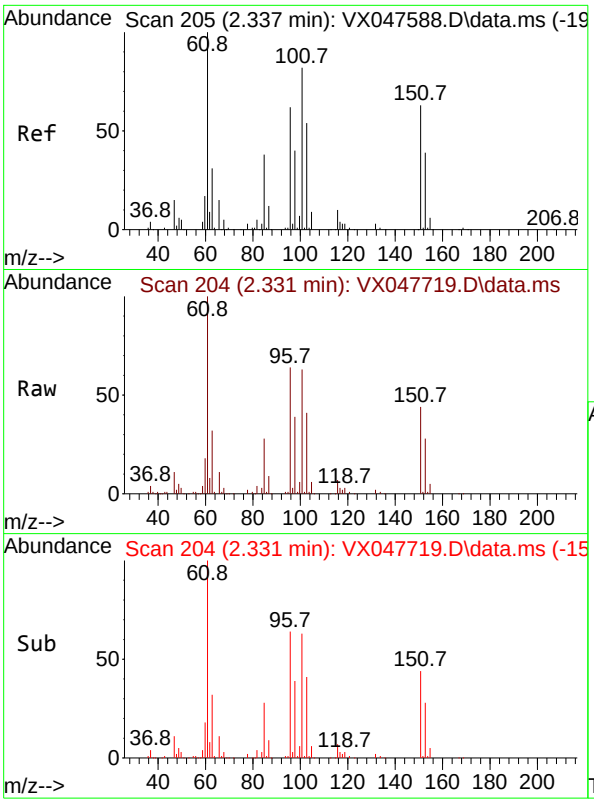


#8
Diethyl Ether
Concen: 57.259 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 74 Resp: 67493

Ion	Ratio	Lower	Upper
74	100		
45	104.1	52.3	156.8



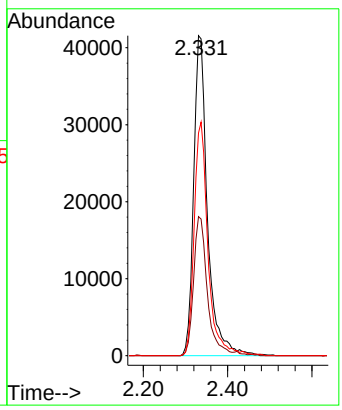


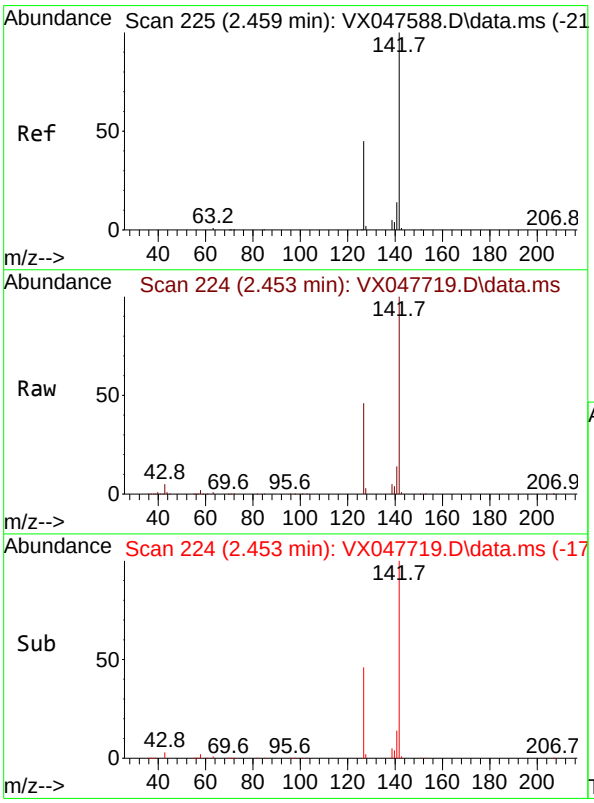
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.200 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 94692

Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	73.5	59.4	89.0

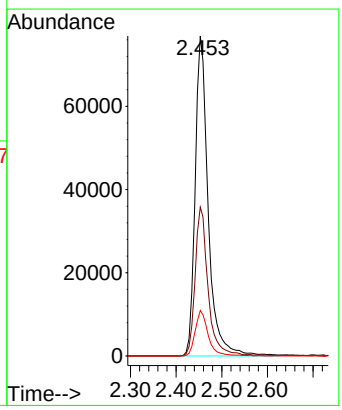


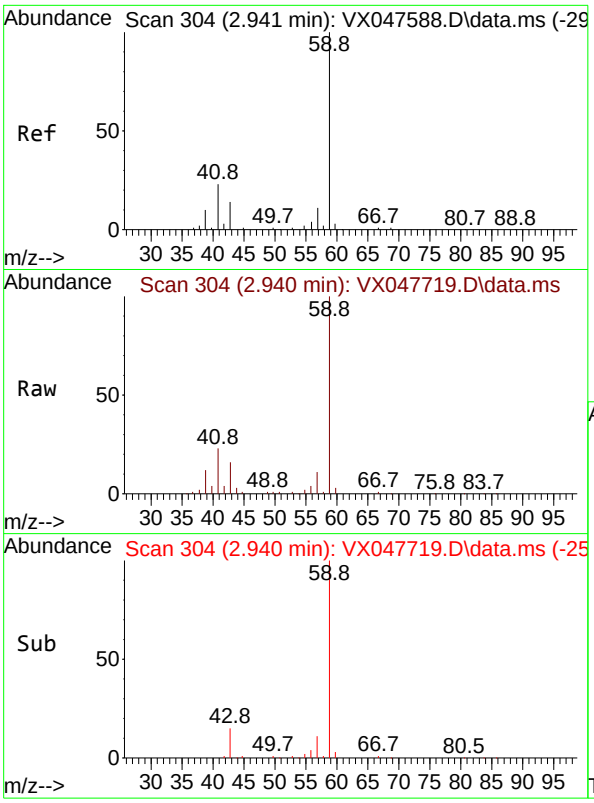


#10
Methyl Iodide
Concen: 58.055 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:142 Resp: 152554

Ion	Ratio	Lower	Upper
142	100		
127	46.2	37.2	55.8
141	14.2	11.4	17.0



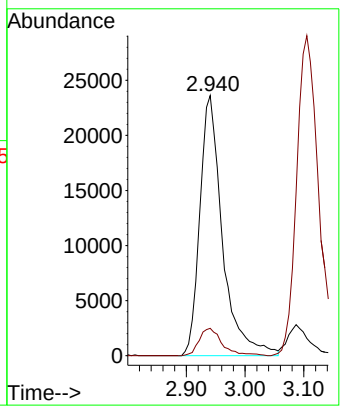


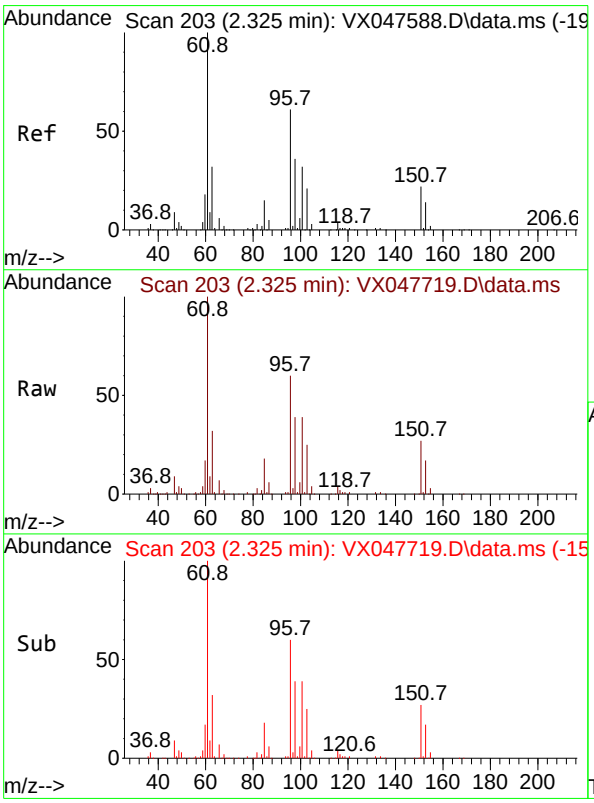
#11
Tert butyl alcohol
Concen: 244.621 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 63172

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.3	12.5

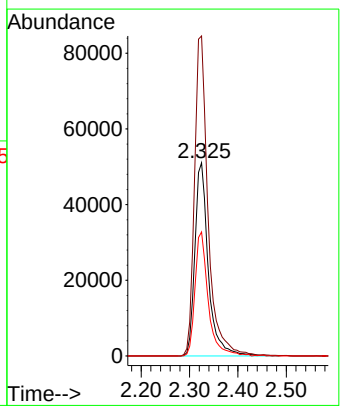


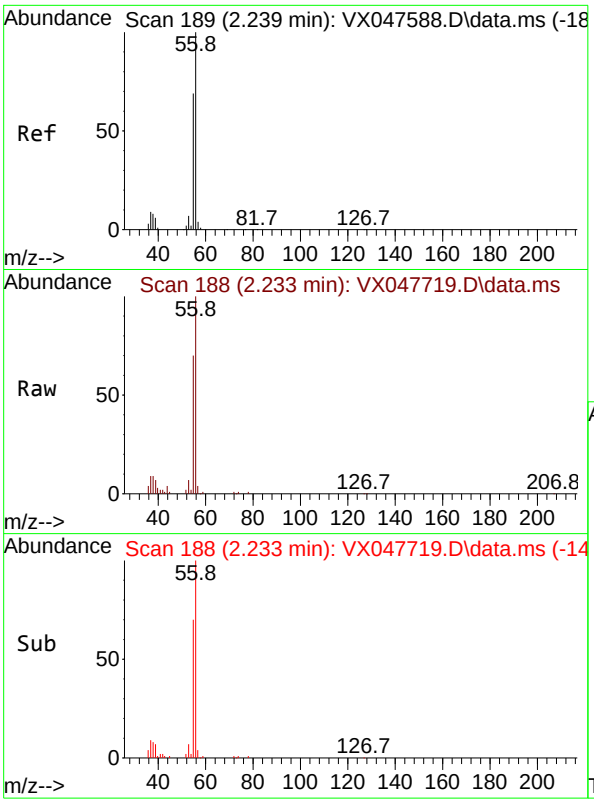


#12
1,1-Dichloroethene
Concen: 57.012 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 96 Resp: 98672

Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.0	196.6
98	64.2	47.7	71.5



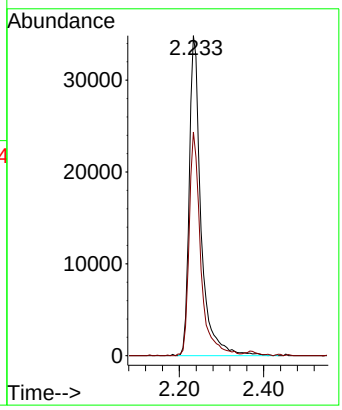


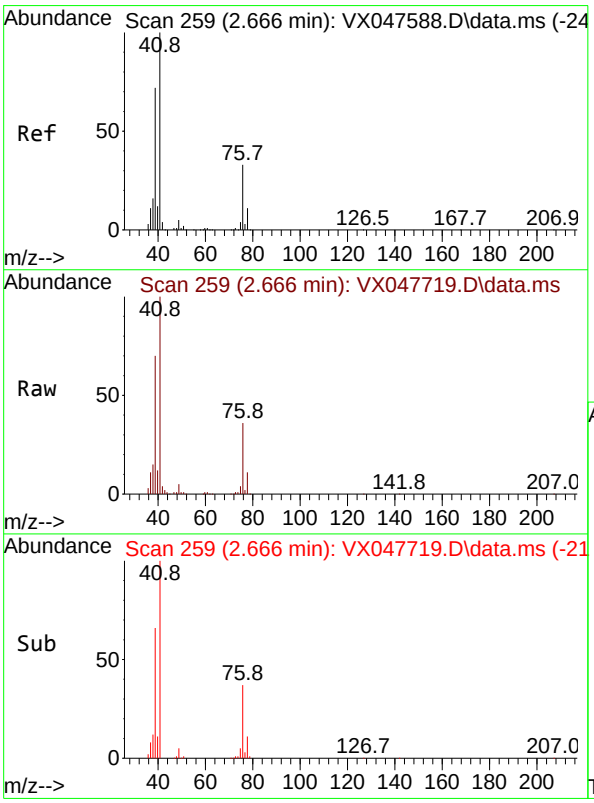
#13
Acrolein
Concen: 282.952 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 67336

Ion	Ratio	Lower	Upper
56	100		
55	69.0	57.2	85.8

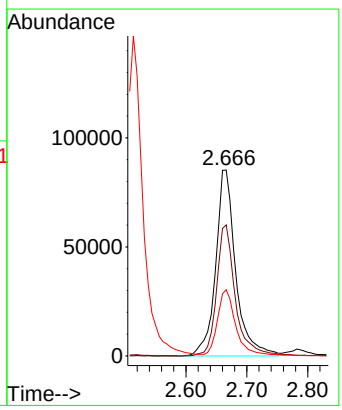


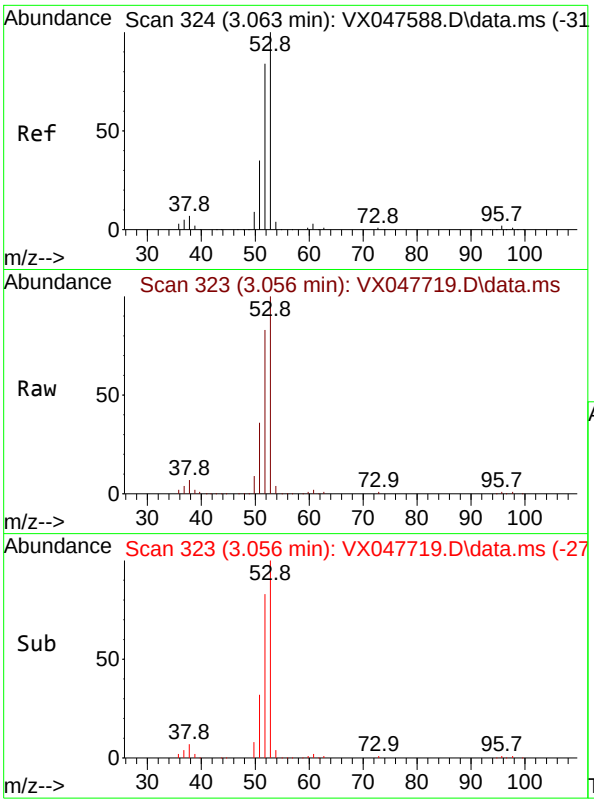


#14
Allyl chloride
Concen: 54.723 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 195439

Ion	Ratio	Lower	Upper
41	100		
39	66.1	54.7	82.1
76	32.6	25.7	38.5



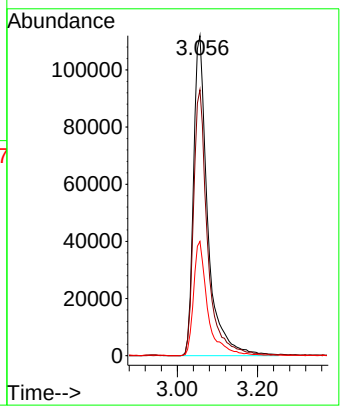


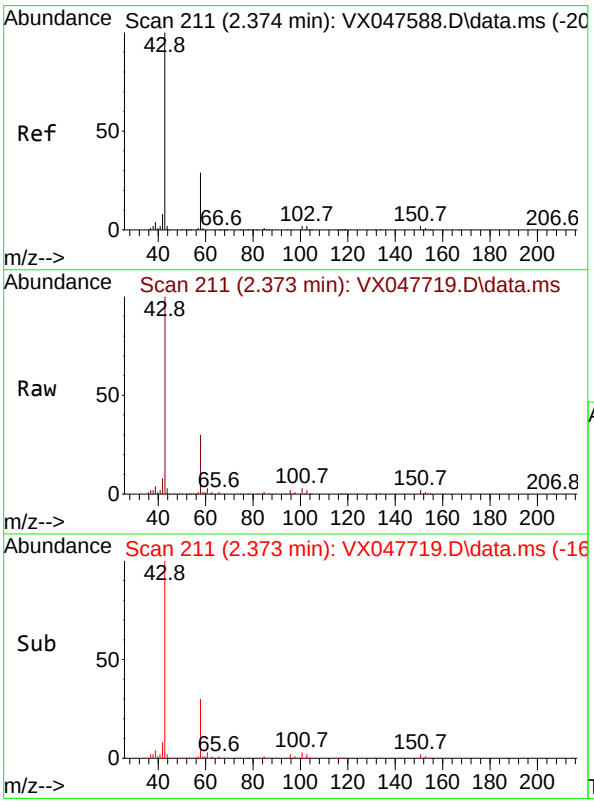
#15
Acrylonitrile
Concen: 287.505 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 275014

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	35.8	29.5	44.3

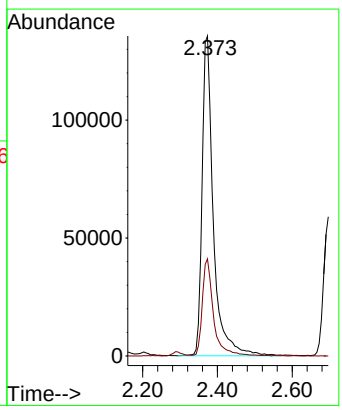


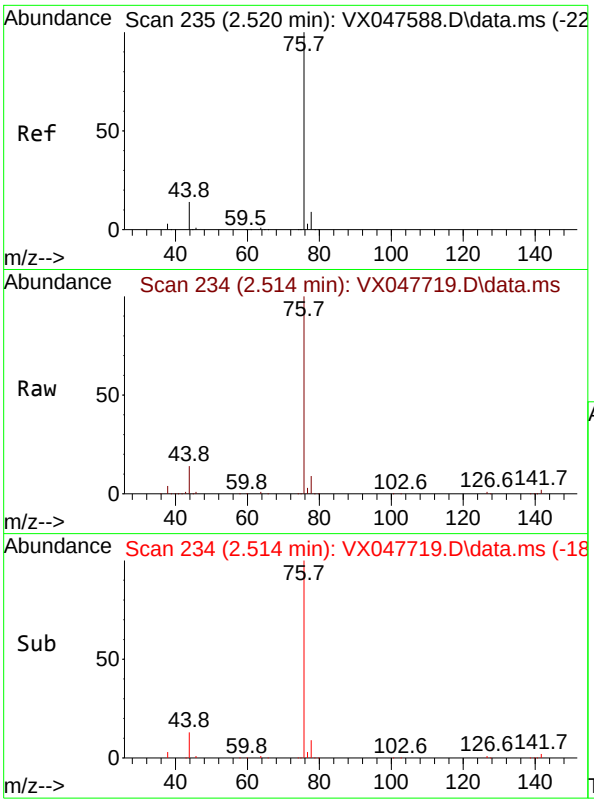


#16
Acetone
Concen: 280.166 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 282461

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.4	35.0



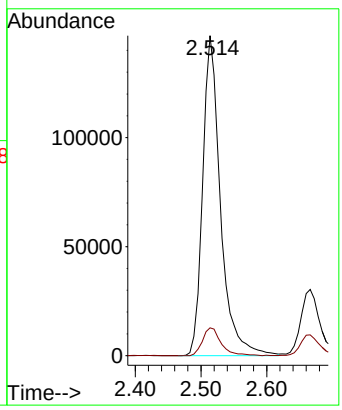


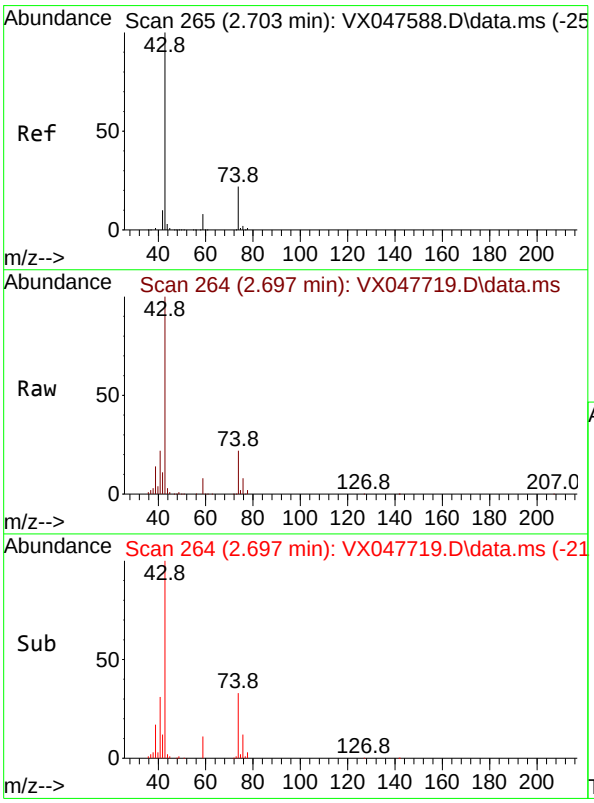
#17
Carbon Disulfide
Concen: 58.393 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 276670

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.8	10.2

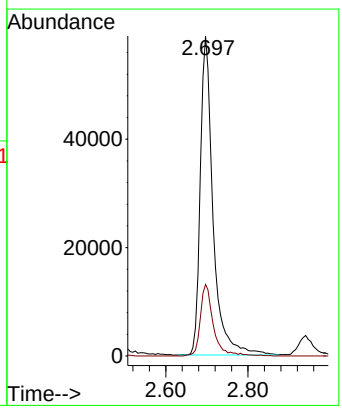


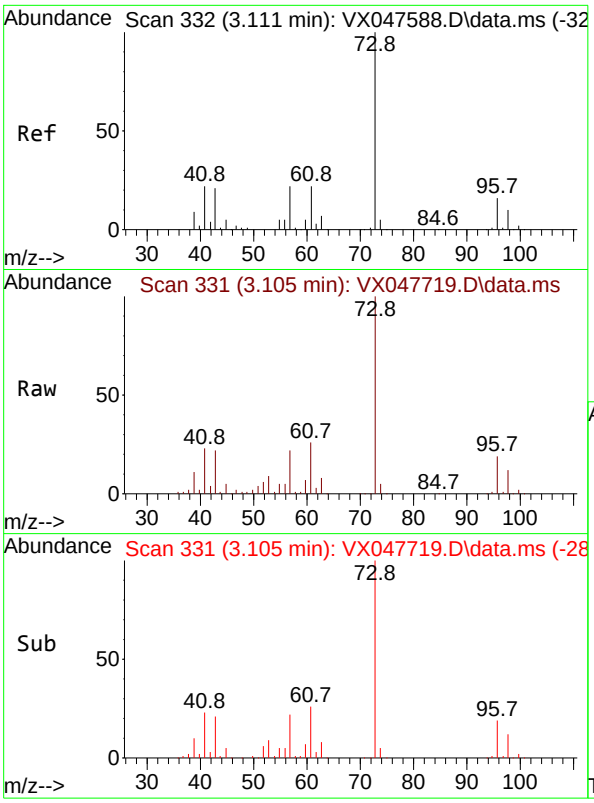


#18
Methyl Acetate
Concen: 56.673 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 127158

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2



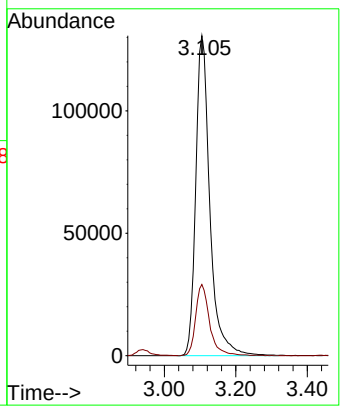


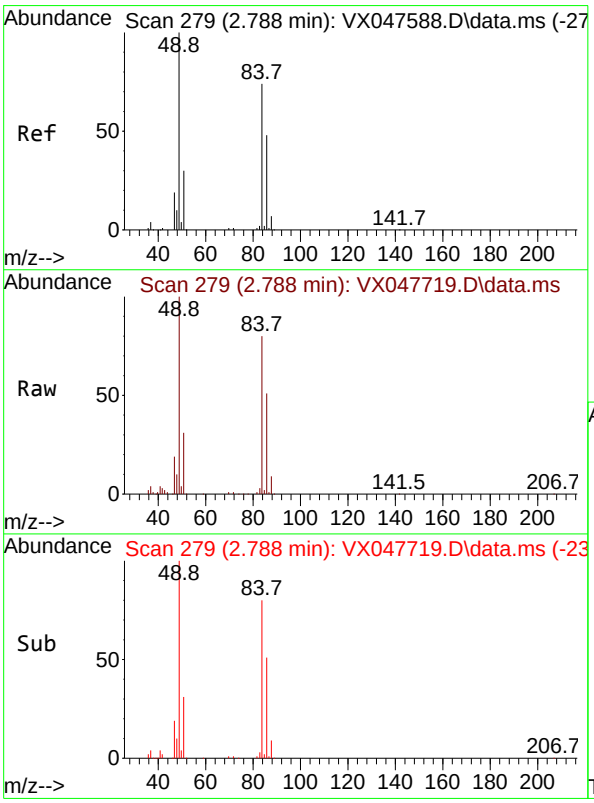
#19
Methyl tert-butyl Ether
Concen: 56.537 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 357198

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2

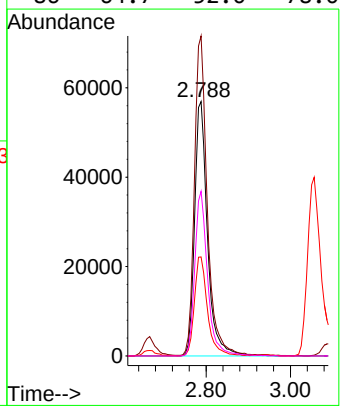


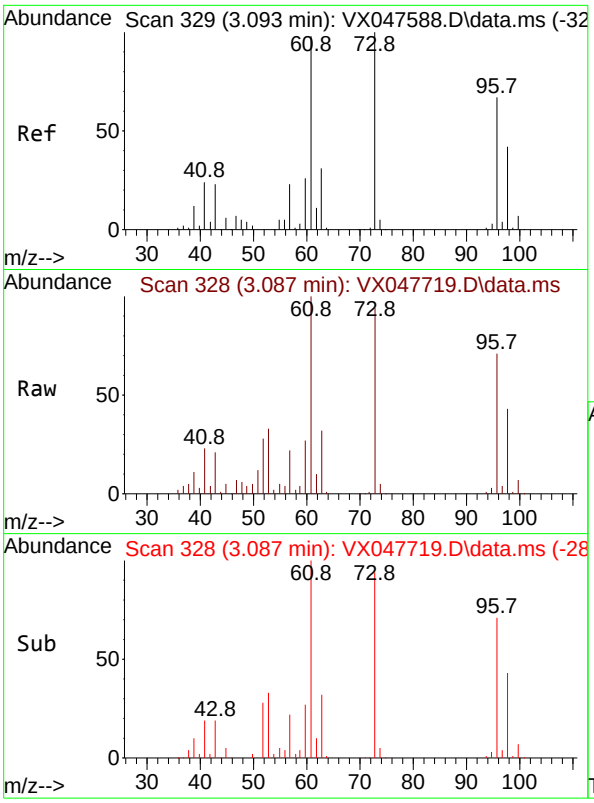


#20
Methylene Chloride
Concen: 56.815 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 84 Resp: 121247

Ion	Ratio	Lower	Upper
84	100		
49	125.5	108.6	162.8
51	38.9	32.6	48.8
86	64.7	52.0	78.0



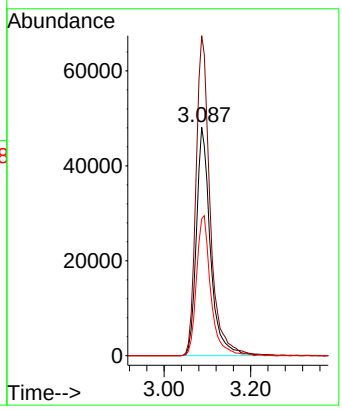


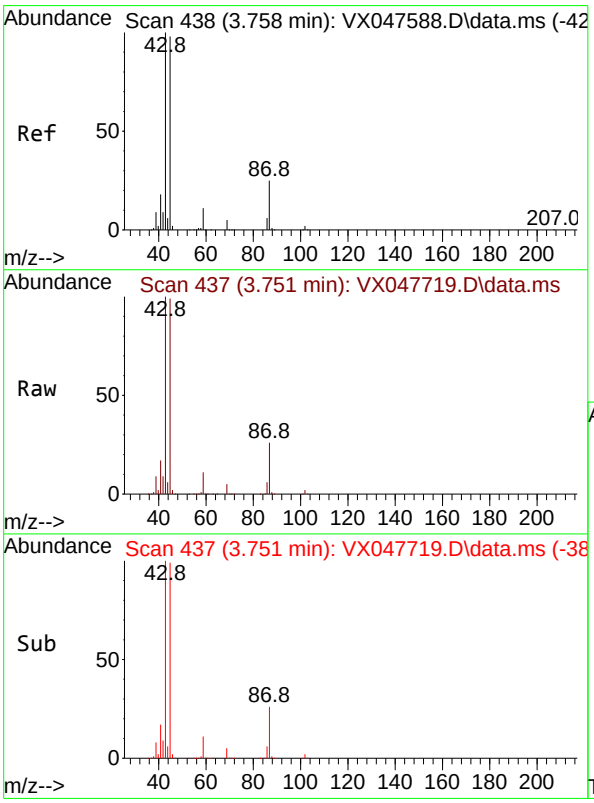
#21
trans-1,2-Dichloroethene
Concen: 57.928 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 107940

Ion	Ratio	Lower	Upper
96	100		
61	140.0	116.2	174.2
98	59.9	49.3	73.9

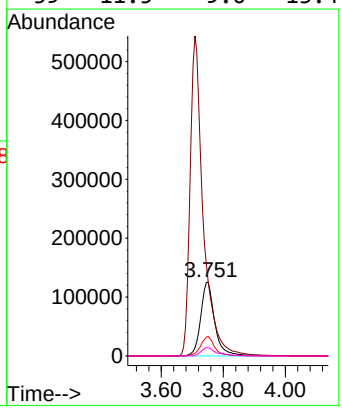


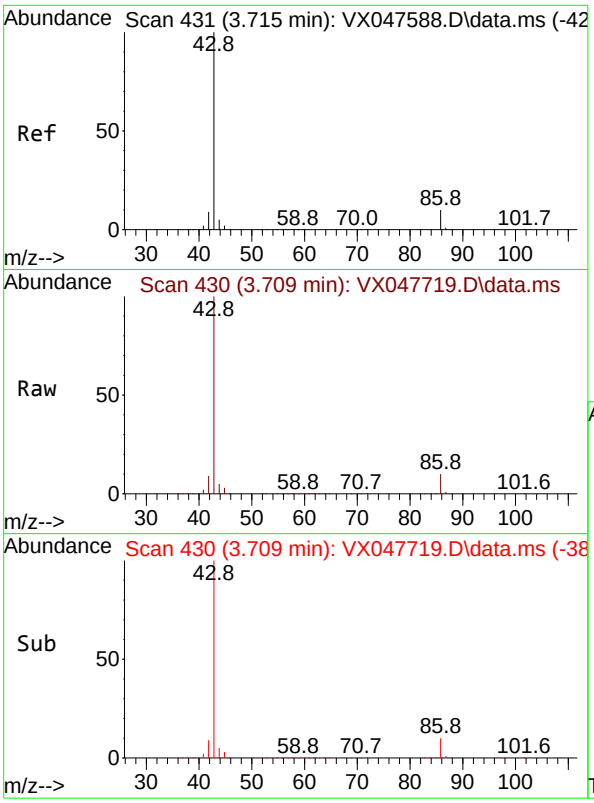


#22
Diisopropyl ether
Concen: 56.829 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 45 Resp: 393344

Ion	Ratio	Lower	Upper
45	100		
43	101.4	81.0	121.4
87	26.1	20.3	30.5
59	11.5	9.0	13.4



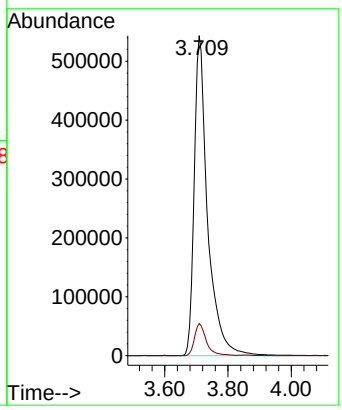


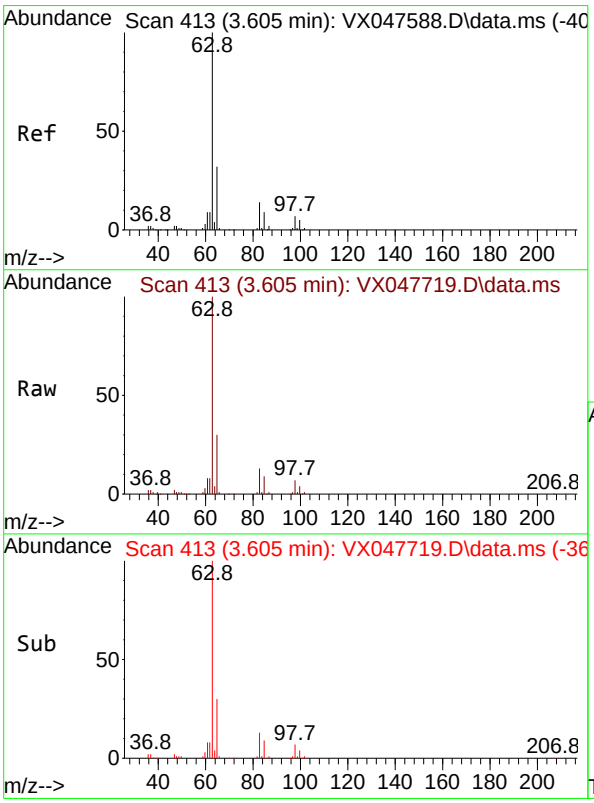
#23
Vinyl Acetate
Concen: 289.816 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1605465

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8

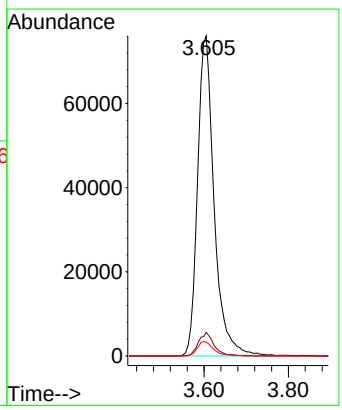


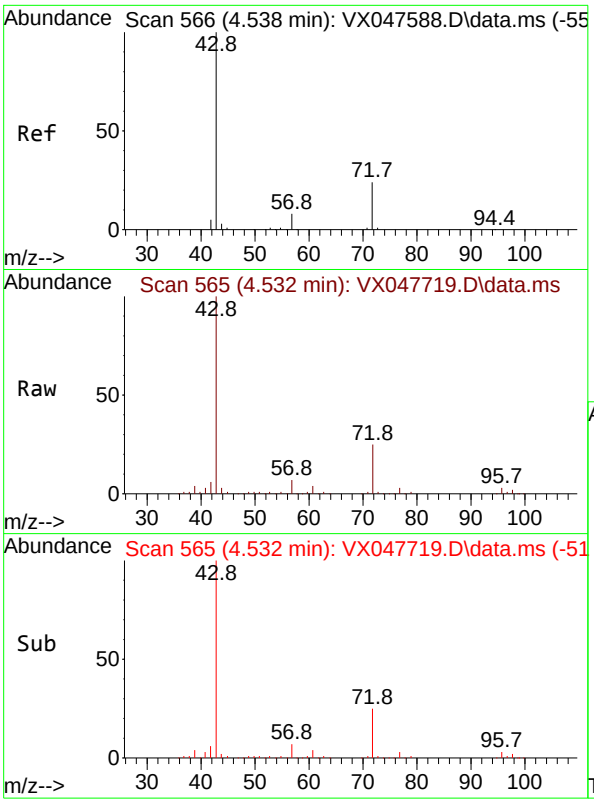


#24
1,1-Dichloroethane
Concen: 56.537 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 207990

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.3	2.3	6.9



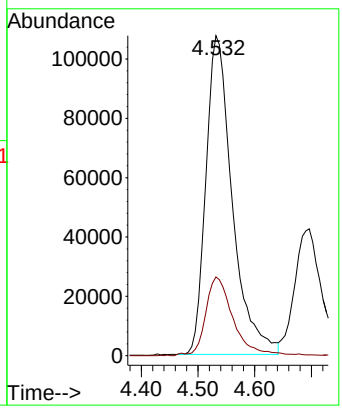


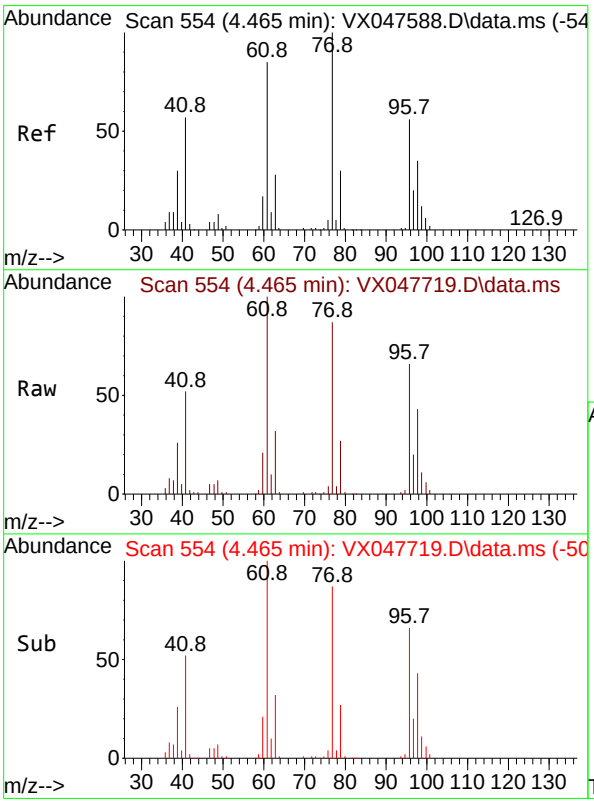
#25
2-Butanone
Concen: 276.163 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 347300

Ion	Ratio	Lower	Upper
43	100		
72	23.9	20.1	30.1

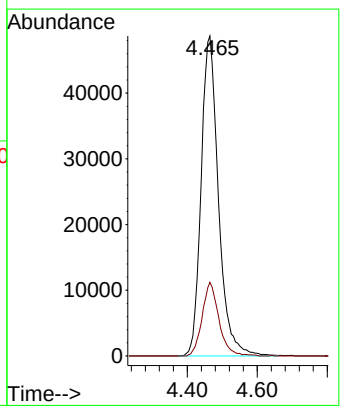


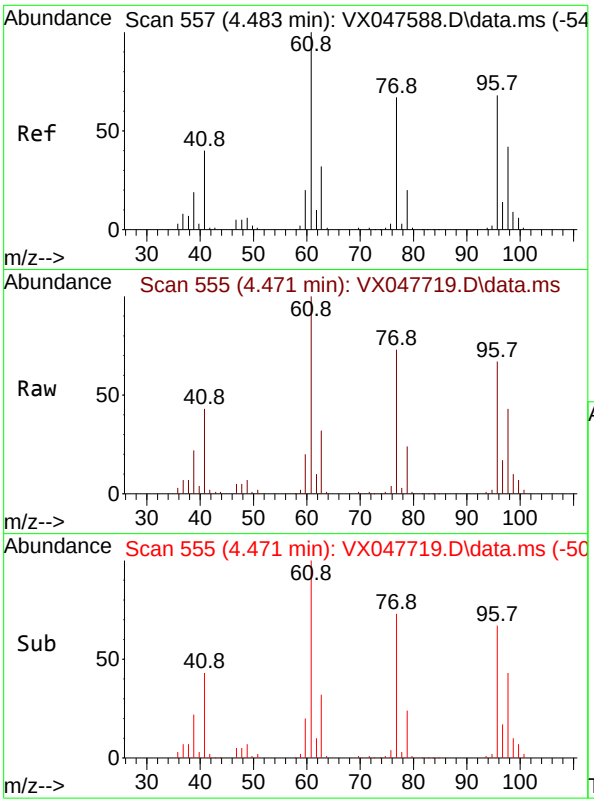


#26
2,2-Dichloropropane
Concen: 54.744 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 77 Resp: 167410

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.9	32.7



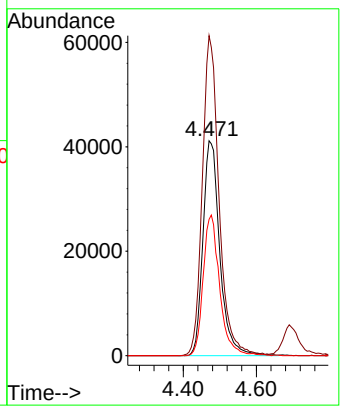


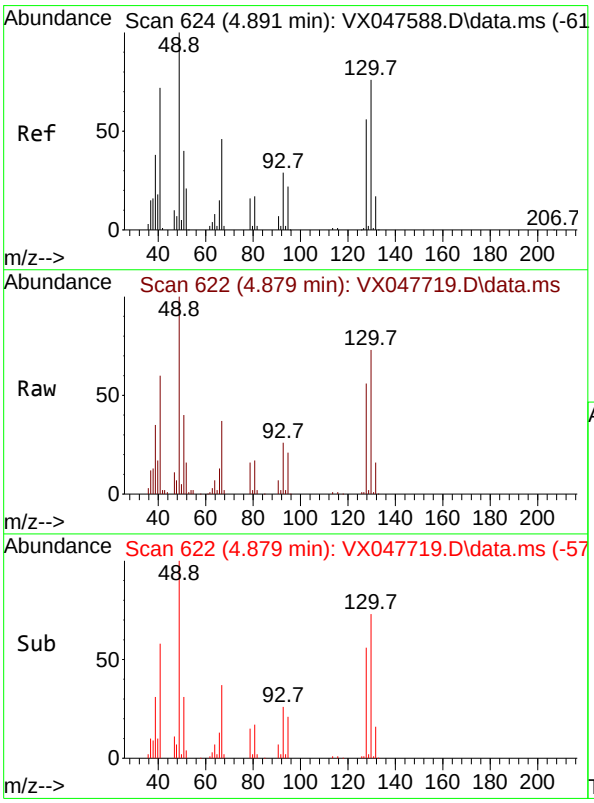
#27
cis-1,2-Dichloroethene
Concen: 57.629 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 131508

Ion	Ratio	Lower	Upper
96	100		
61	148.0	0.0	303.2
98	64.1	0.0	127.8

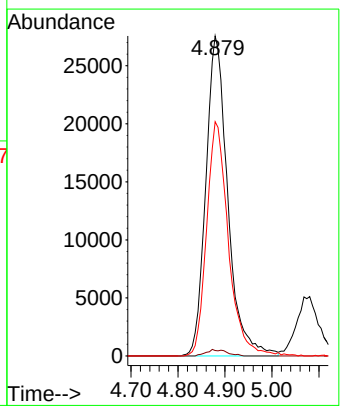


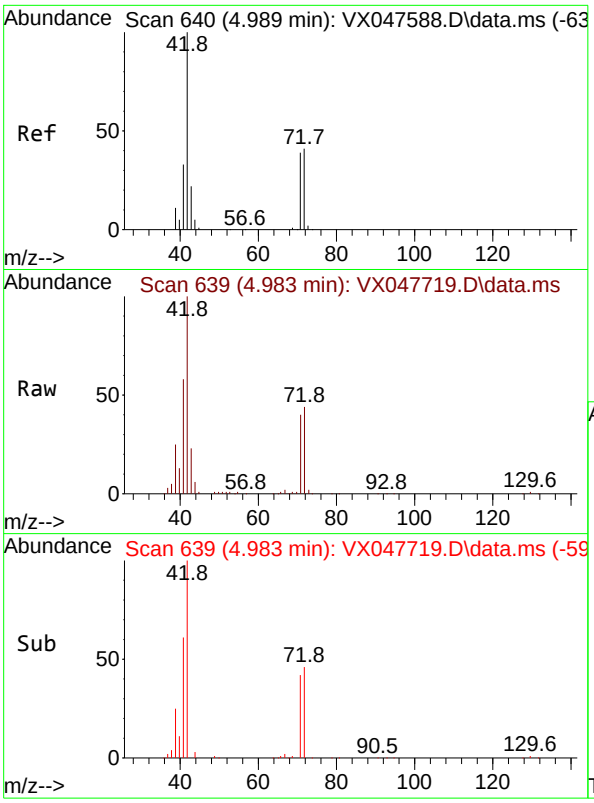


#28
Bromochloromethane
Concen: 55.520 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 49 Resp: 89169

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.8	57.8	86.8



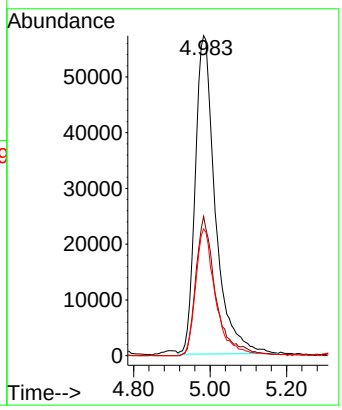


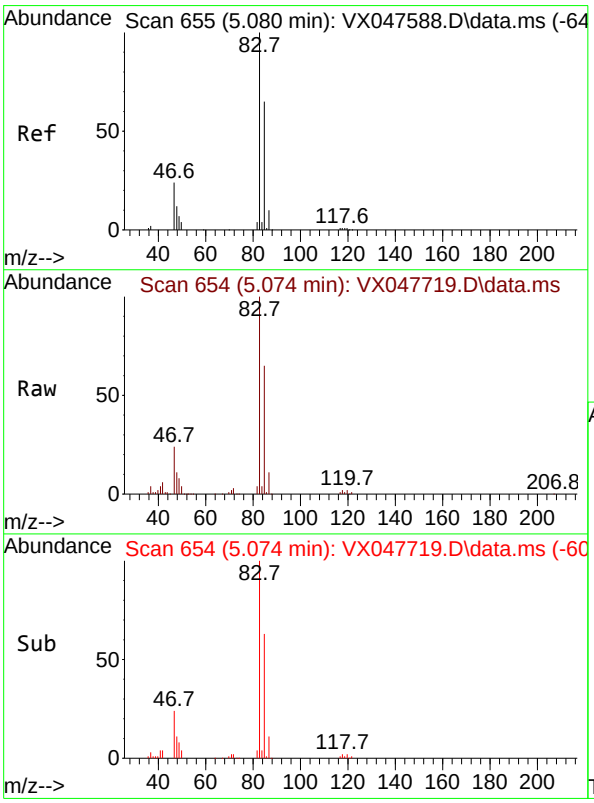
#29
Tetrahydrofuran
Concen: 274.666 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 207795

Ion	Ratio	Lower	Upper
42	100		
72	43.5	34.2	51.2
71	40.0	31.9	47.9

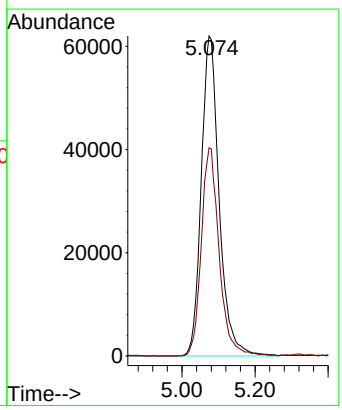


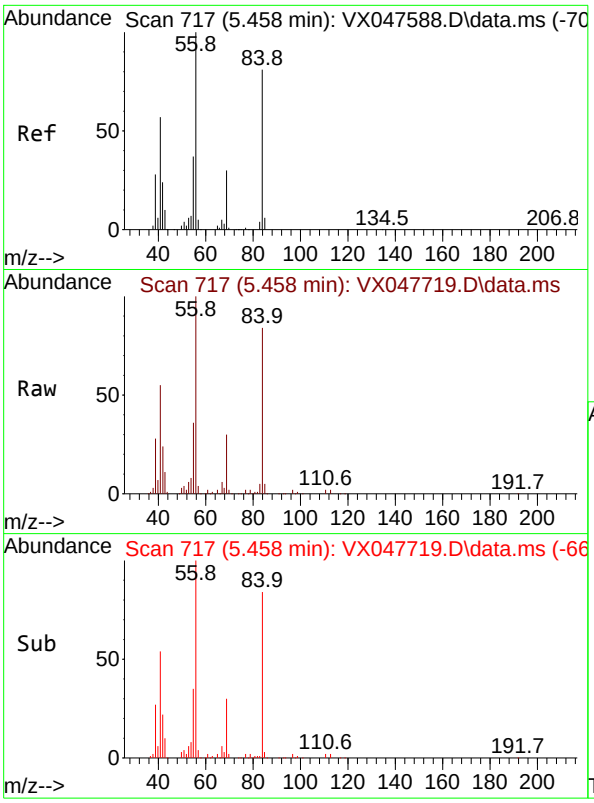


#30
Chloroform
Concen: 56.566 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 83 Resp: 210287

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.8	77.6



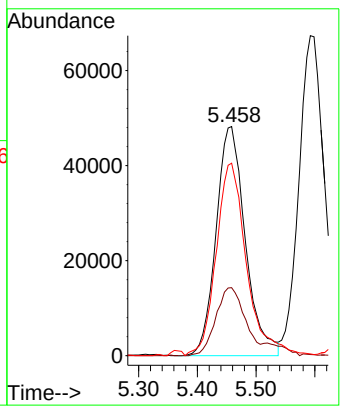


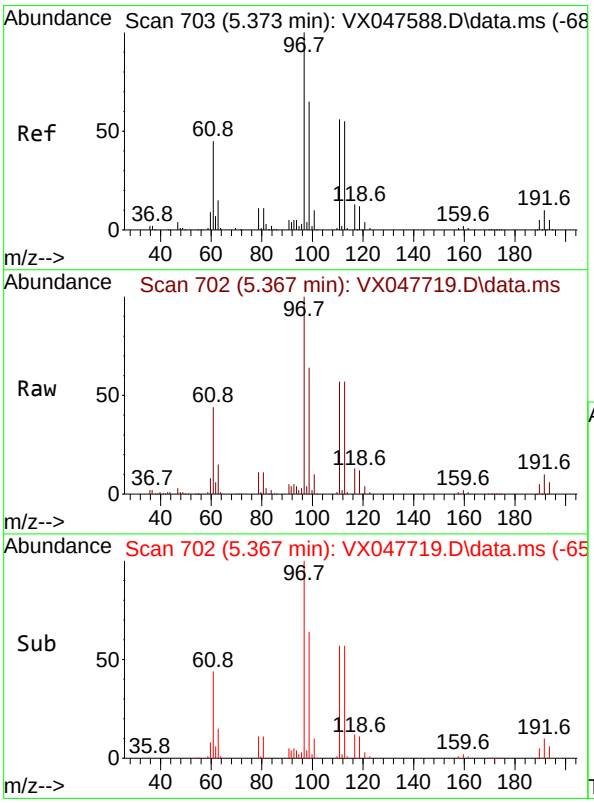
#31
Cyclohexane
Concen: 54.312 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 166413

Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.8	35.8
84	81.9	64.6	97.0

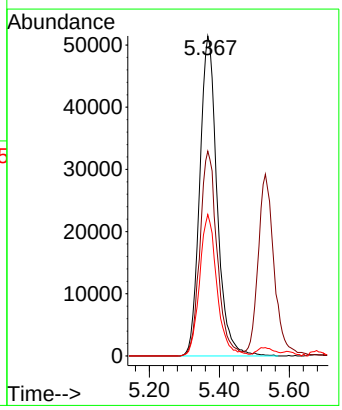


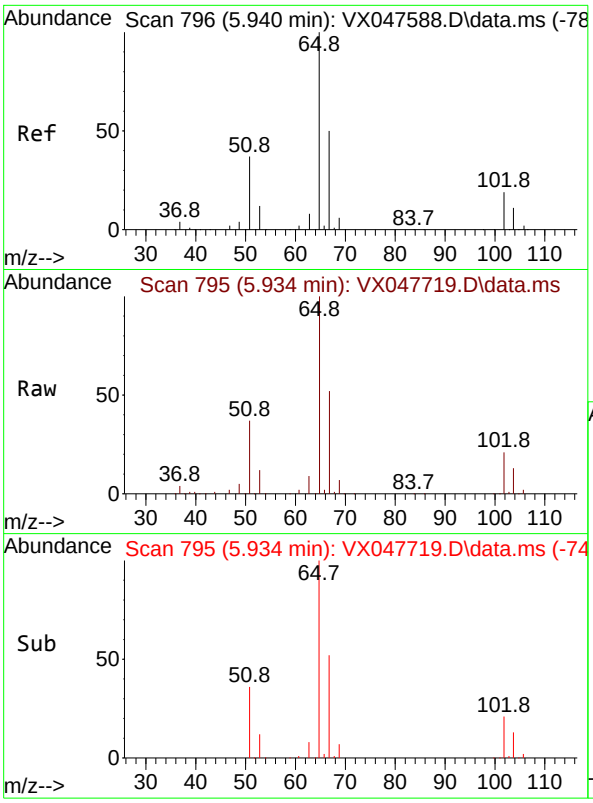


#32
1,1,1-Trichloroethane
Concen: 55.958 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 97 Resp: 176453

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	44.3	35.8	53.8



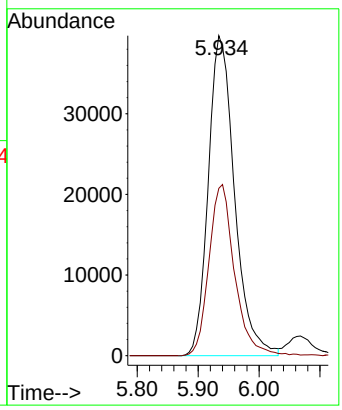


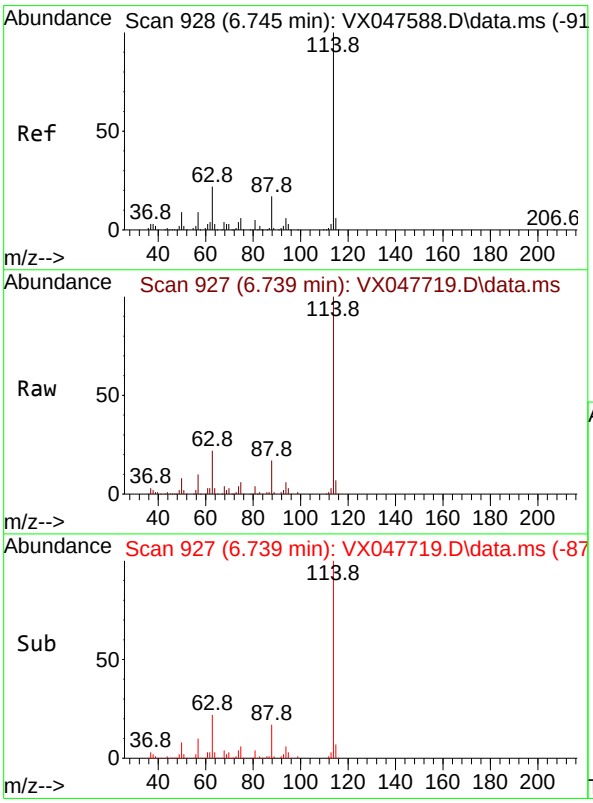
#33
1,2-Dichloroethane-d4
Concen: 51.280 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 118904

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0

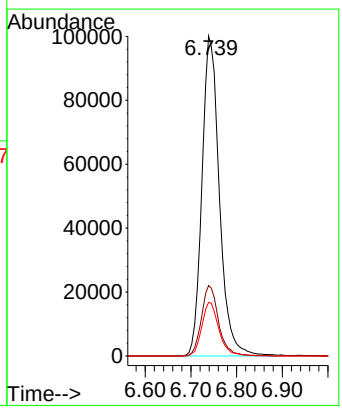


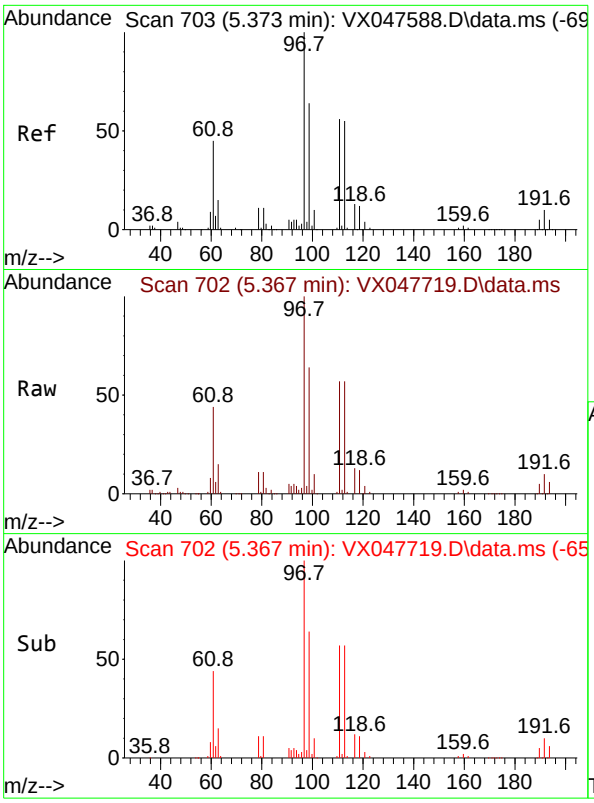


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:114 Resp: 265022

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	44.0
88	16.8	0.0	34.2



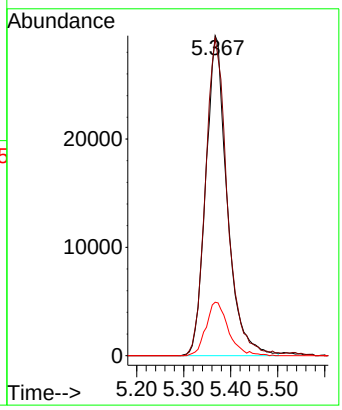


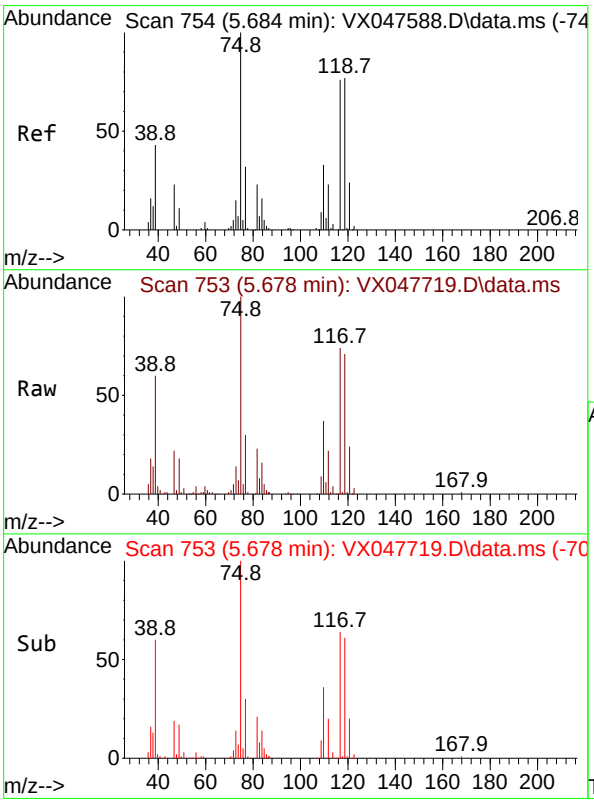
#35
Dibromofluoromethane
Concen: 52.461 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 93243

Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.9	121.3
192	17.5	14.2	21.4

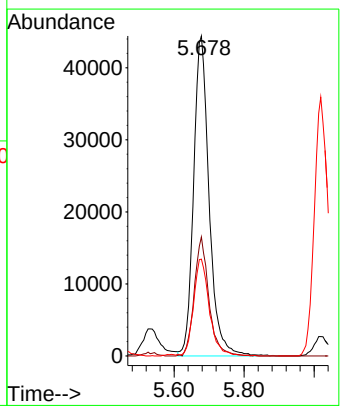


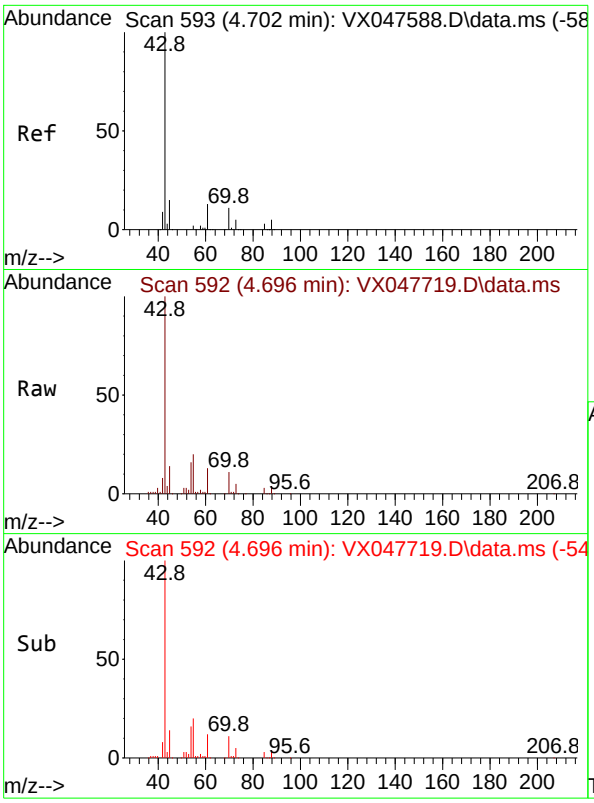


#36
1,1-Dichloropropene
Concen: 52.619 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 136661

Ion	Ratio	Lower	Upper
75	100		
110	35.1	16.7	50.1
77	30.9	24.3	36.5



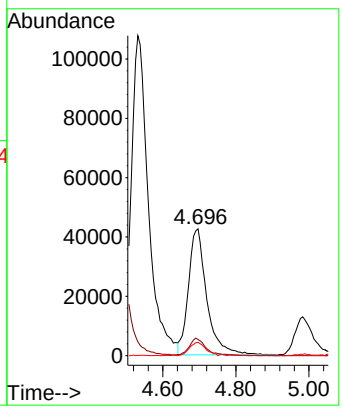


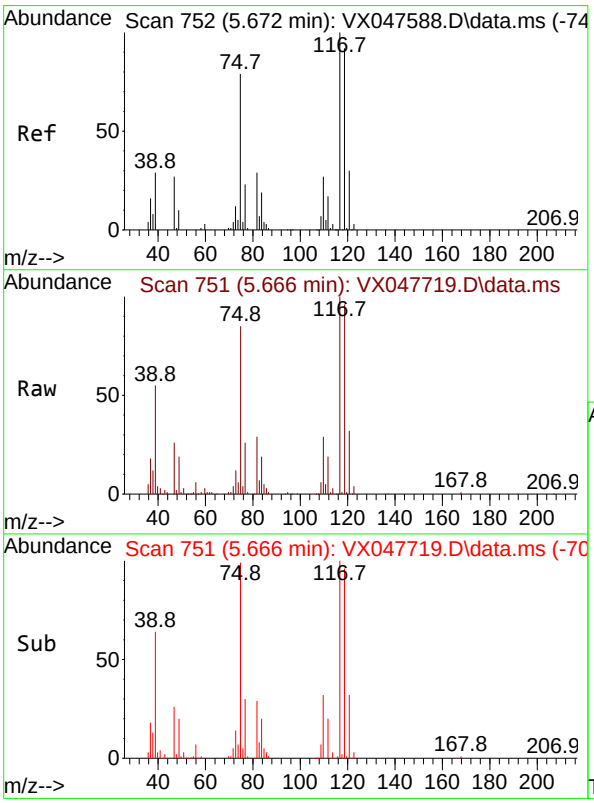
#37
Ethyl Acetate
Concen: 53.244 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 148064

Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.8	14.8
70	9.3	7.9	11.9

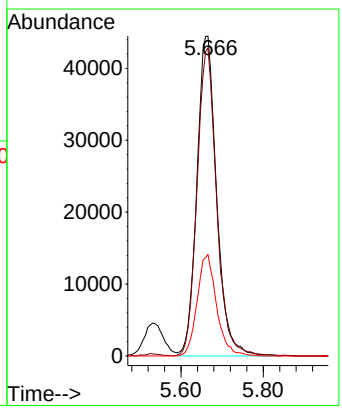


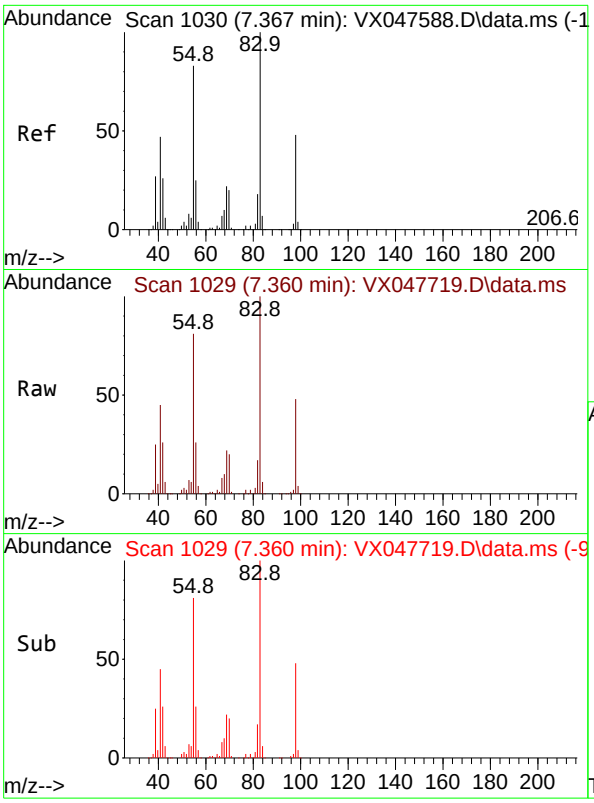


#38
Carbon Tetrachloride
Concen: 52.659 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:117 Resp: 148597

Ion	Ratio	Lower	Upper
117	100		
119	96.0	73.4	110.2
121	31.7	23.8	35.6



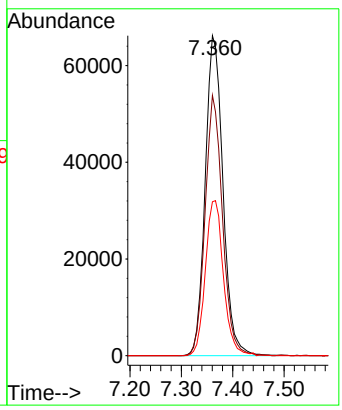


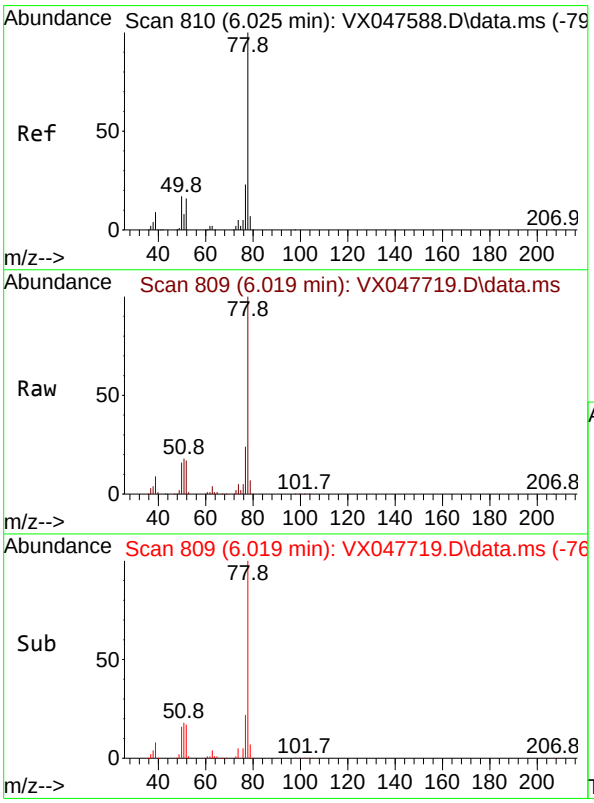
#39
Methylcyclohexane
Concen: 53.805 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 158624

Ion	Ratio	Lower	Upper
83	100		
55	81.4	66.4	99.6
98	48.1	38.1	57.1

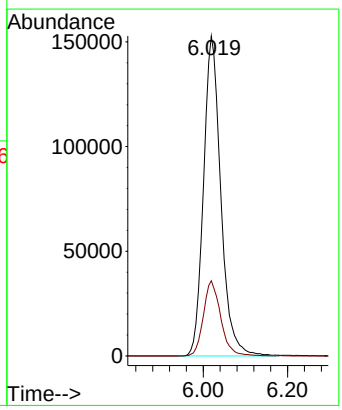


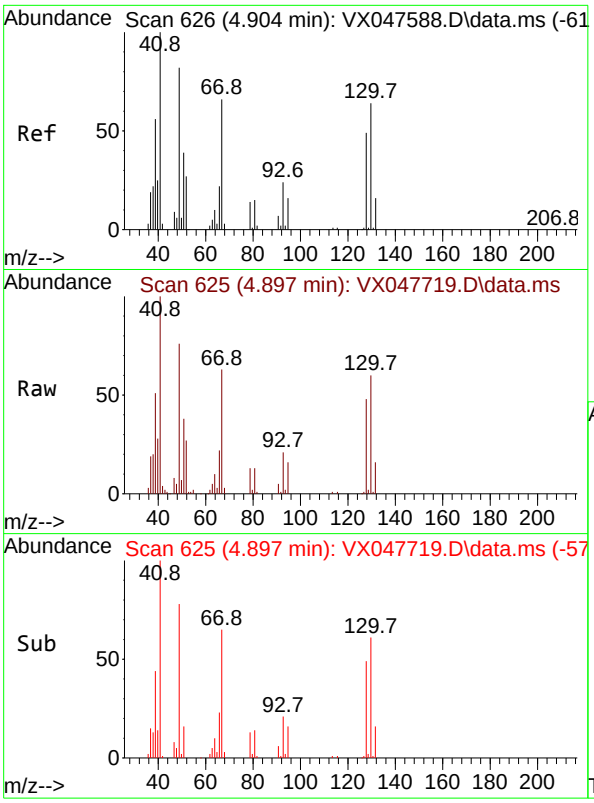


#40
Benzene
Concen: 55.328 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 78 Resp: 436446

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



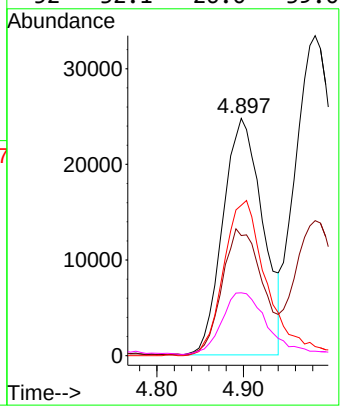


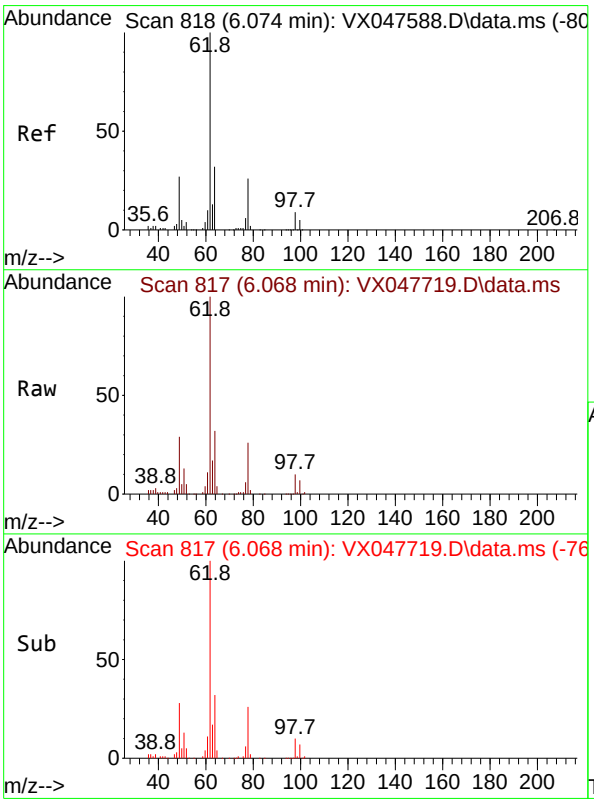
#41
Methacrylonitrile
Concen: 55.020 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 78988

Ion	Ratio	Lower	Upper
41	100		
39	54.0	43.3	64.9
67	72.0	58.6	87.8
52	32.1	26.0	39.0

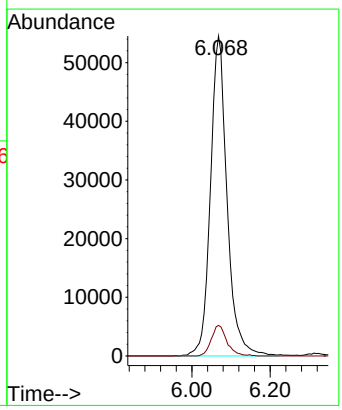


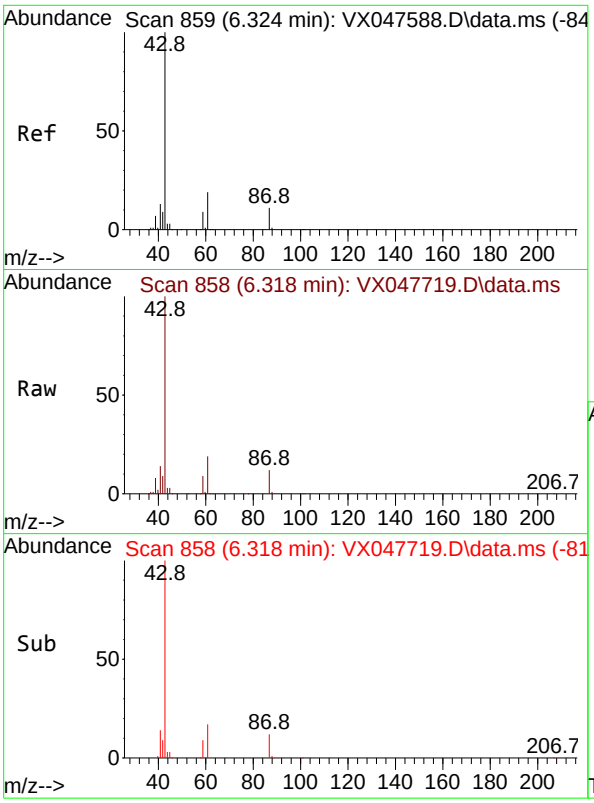


#42
1,2-Dichloroethane
Concen: 53.472 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 62 Resp: 160490

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.0



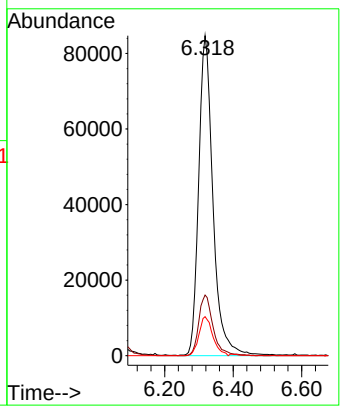


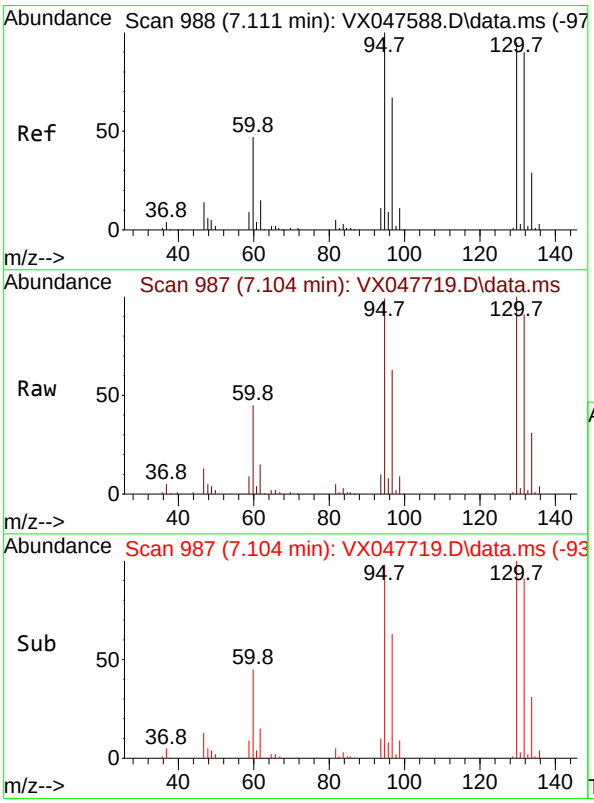
#43
Isopropyl Acetate
Concen: 54.094 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 246709

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	11.7	9.6	14.4

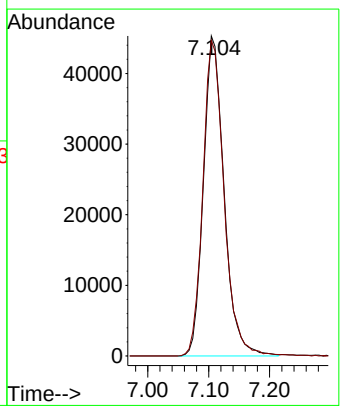


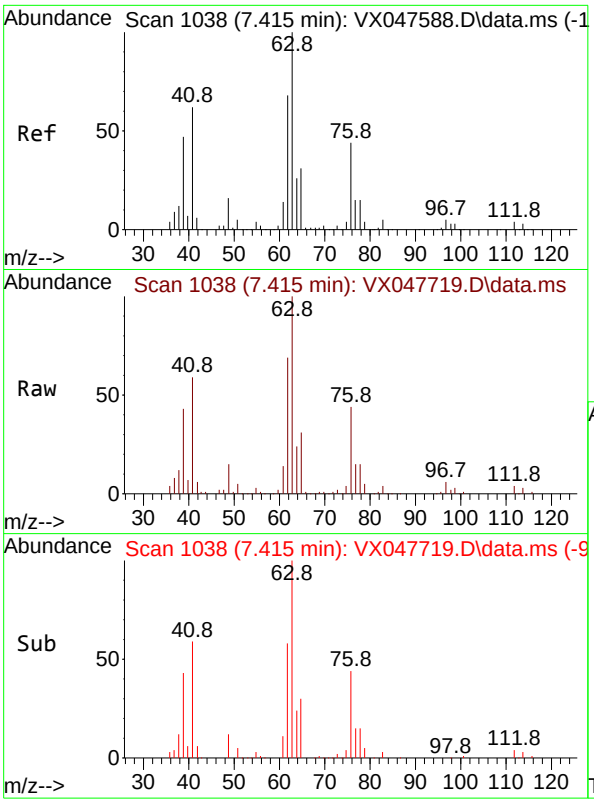


#44
Trichloroethene
Concen: 55.974 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:130 Resp: 106747

Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	210.8



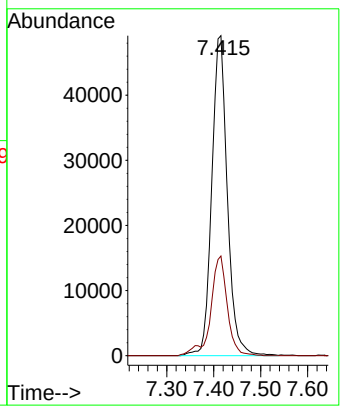


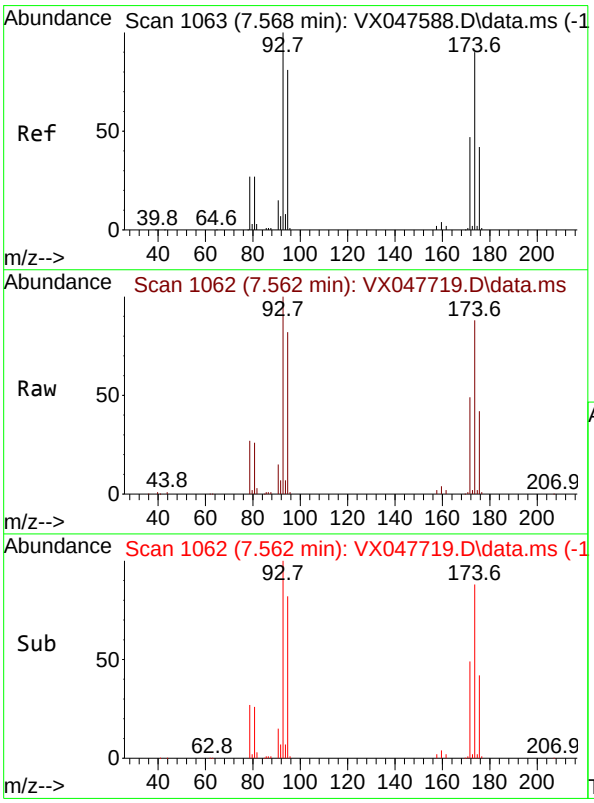
#45
1,2-Dichloropropane
Concen: 55.852 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 112815

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.7	37.1

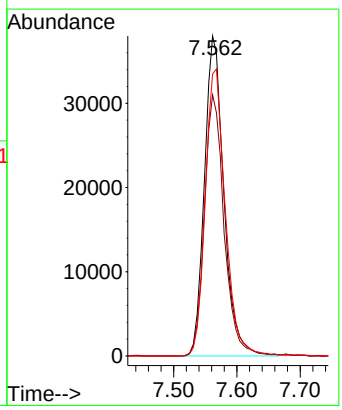


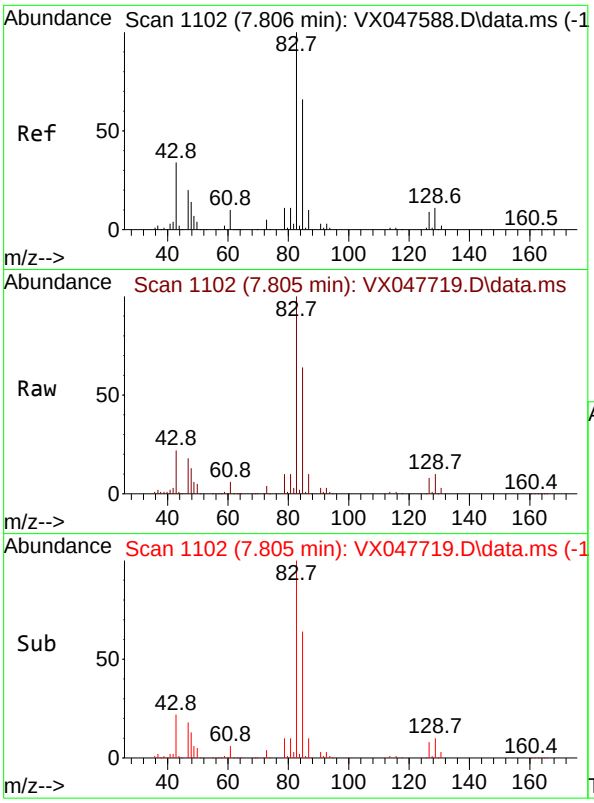


#46
Dibromomethane
Concen: 55.264 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 93 Resp: 81231

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.0	97.6
174	92.6	71.6	107.4



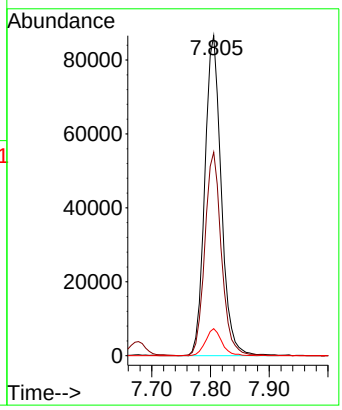


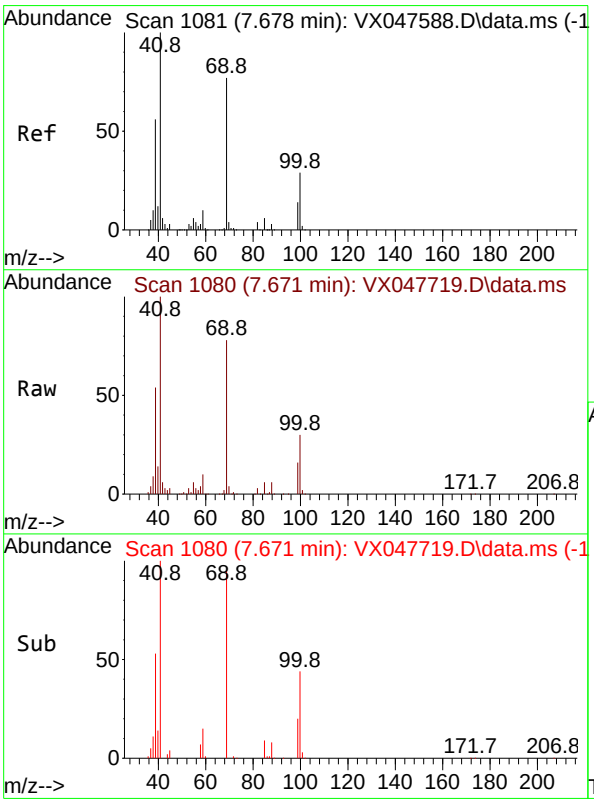
#47
Bromodichloromethane
Concen: 55.419 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 168096

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.5	78.7
127	8.4	6.9	10.3

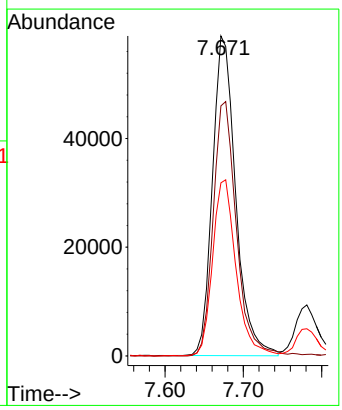


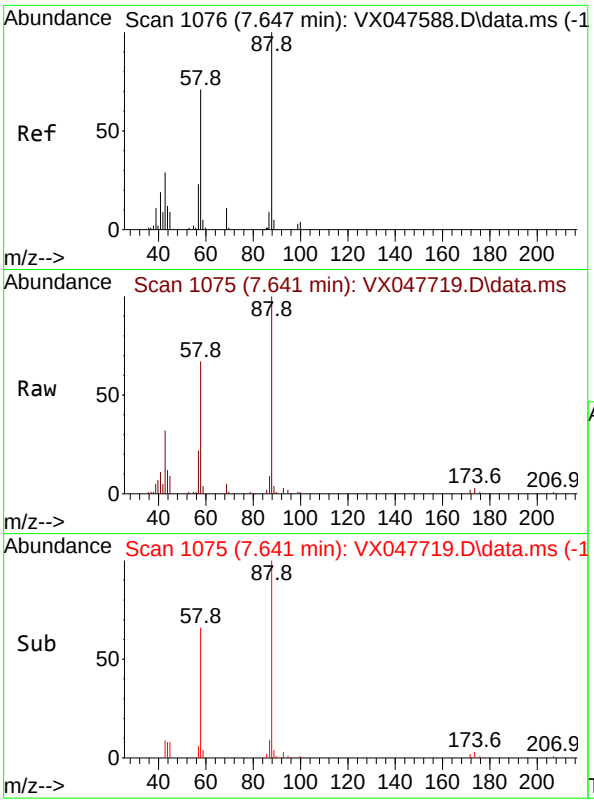


#48
Methyl methacrylate
Concen: 53.434 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 41 Resp: 121390

Ion	Ratio	Lower	Upper
41	100		
69	79.4	61.4	92.2
39	55.8	45.8	68.6



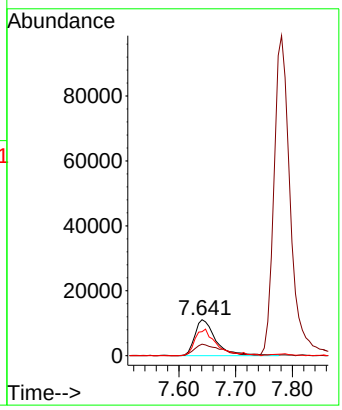


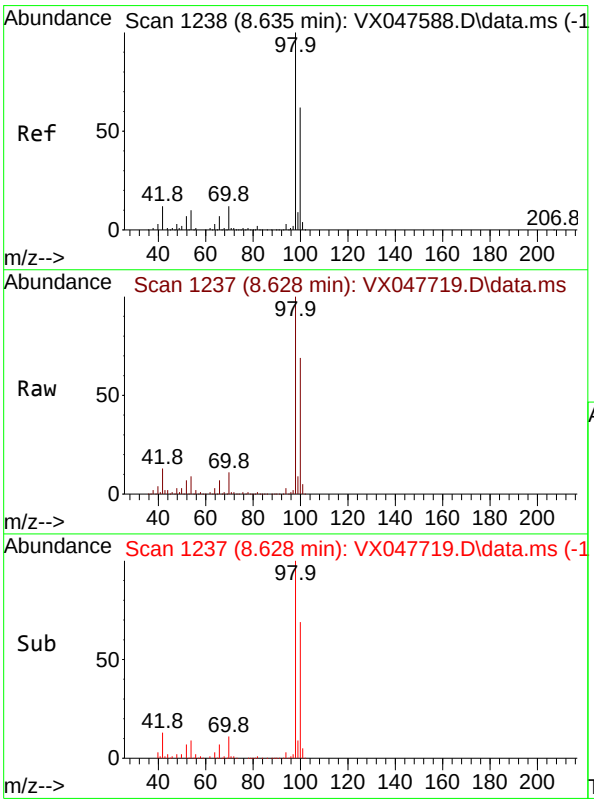
#49
1,4-Dioxane
Concen: 1254.001 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 28790

Ion	Ratio	Lower	Upper
88	100		
43	40.3	30.2	45.2
58	74.5	59.5	89.3

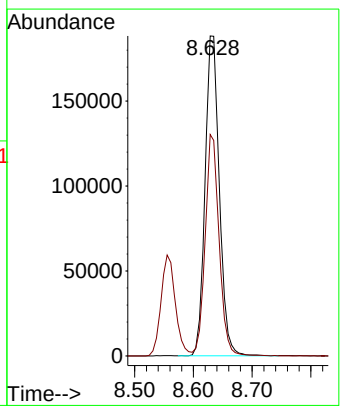


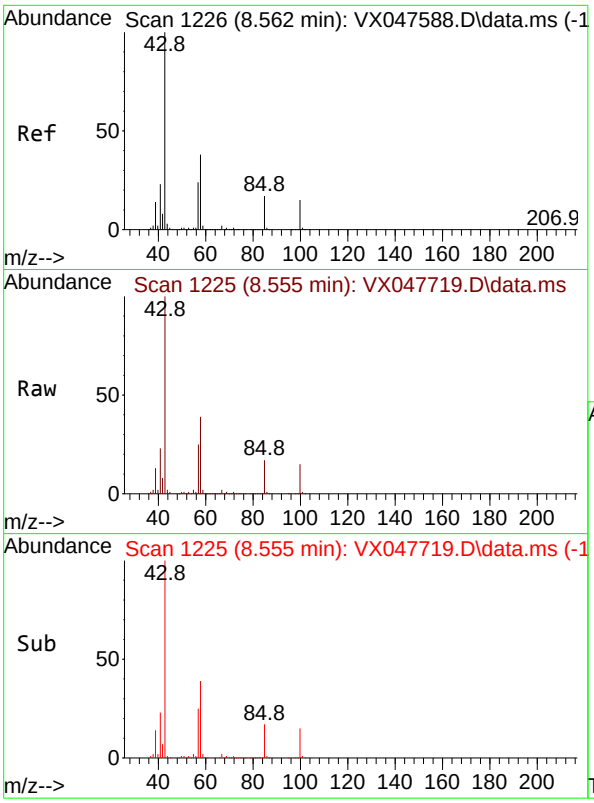


#50
Toluene-d8
Concen: 51.720 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 98 Resp: 318085

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4



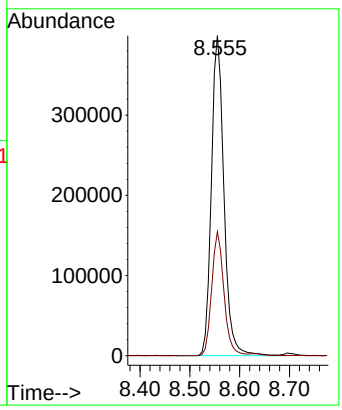


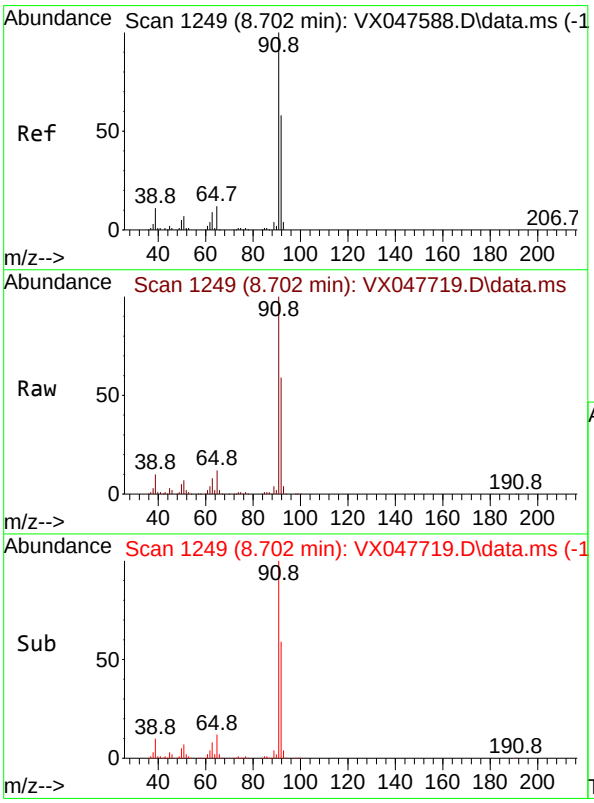
#51
4-Methyl-2-Pentanone
Concen: 275.127 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 695707

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5

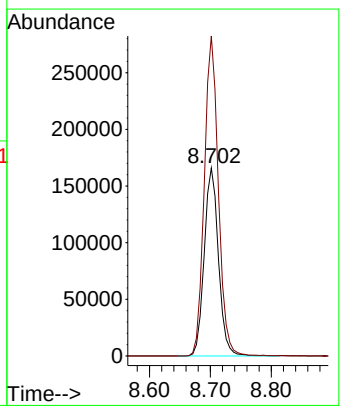


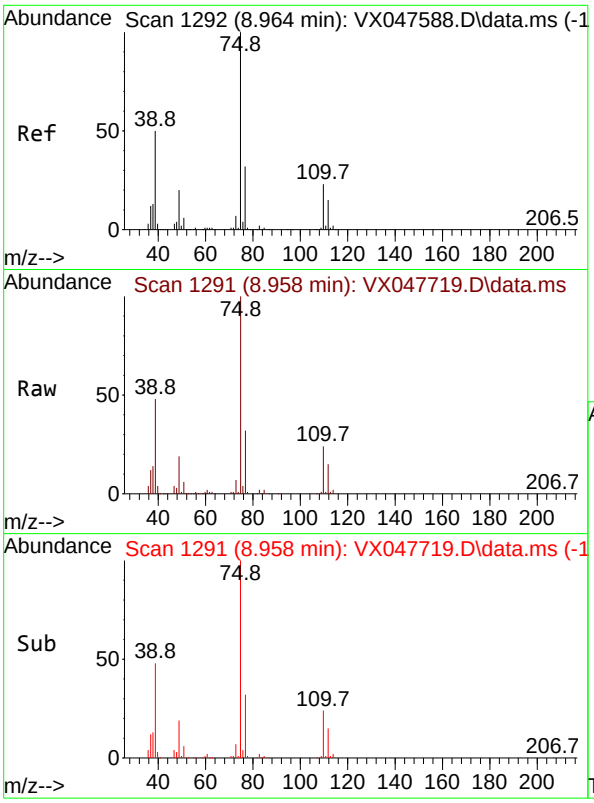


#52
Toluene
Concen: 55.411 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 92 Resp: 269293

Ion	Ratio	Lower	Upper
92	100		
91	168.5	137.1	205.7



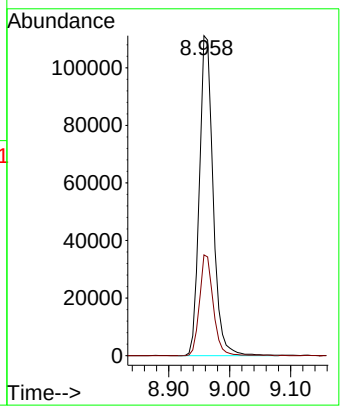


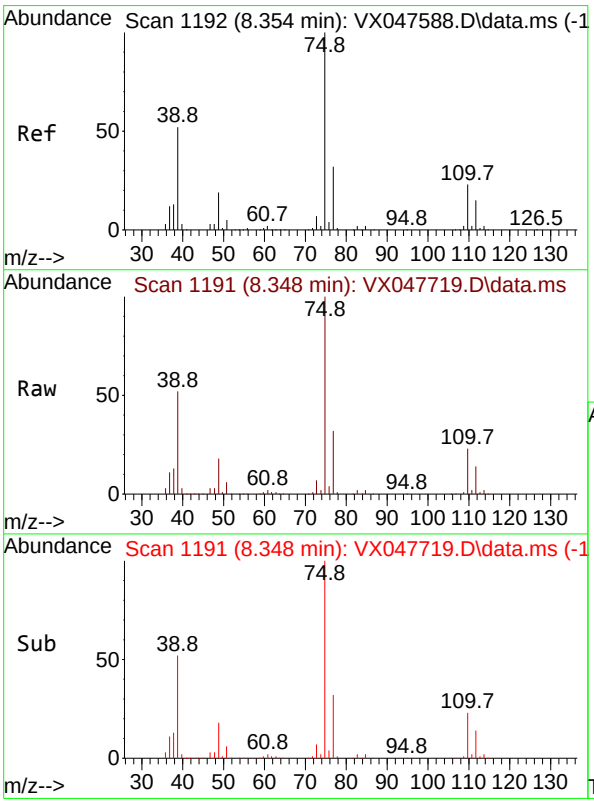
#53
t-1,3-Dichloropropene
Concen: 56.347 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 174332

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.2

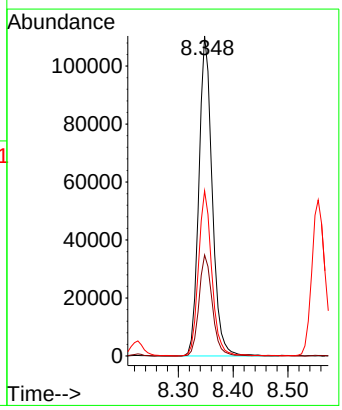


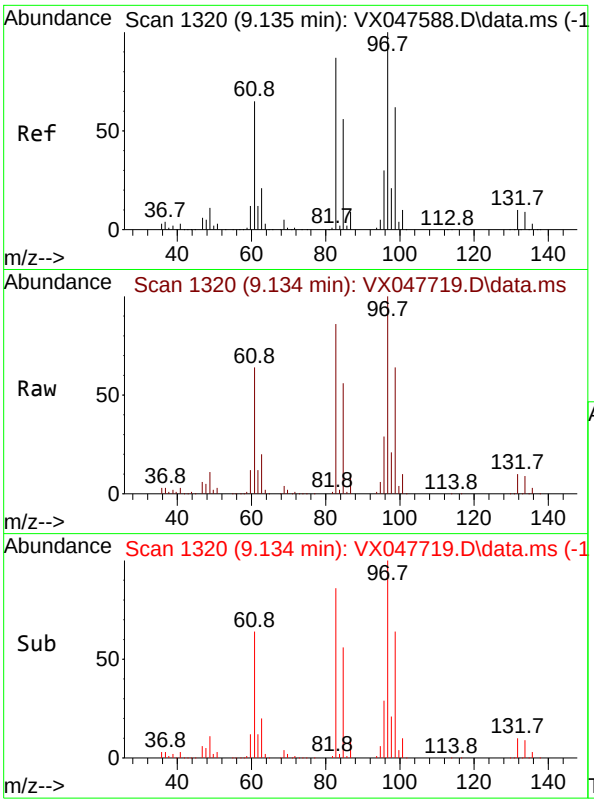


#54
cis-1,3-Dichloropropene
Concen: 56.434 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 186621

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.8	38.6
39	51.5	41.4	62.2



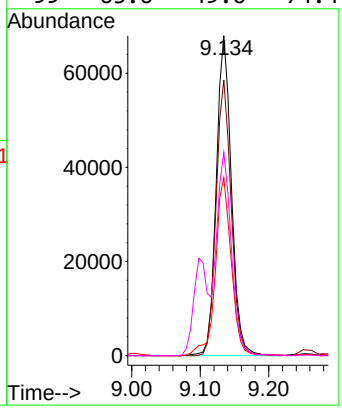


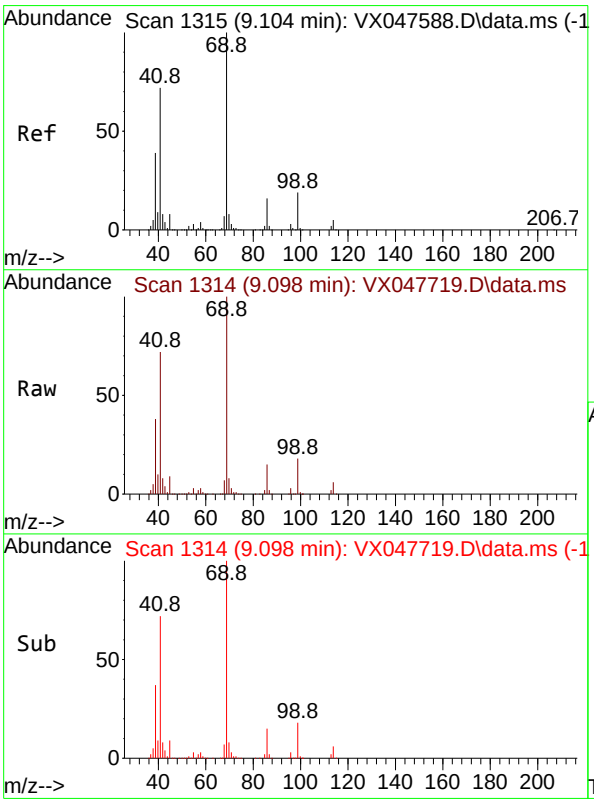
#55
1,1,2-Trichloroethane
Concen: 55.502 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 104009

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	55.6	45.0	67.6
99	63.6	49.6	74.4

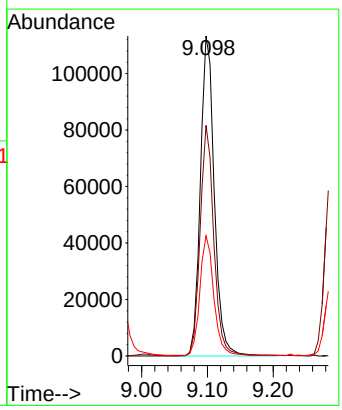


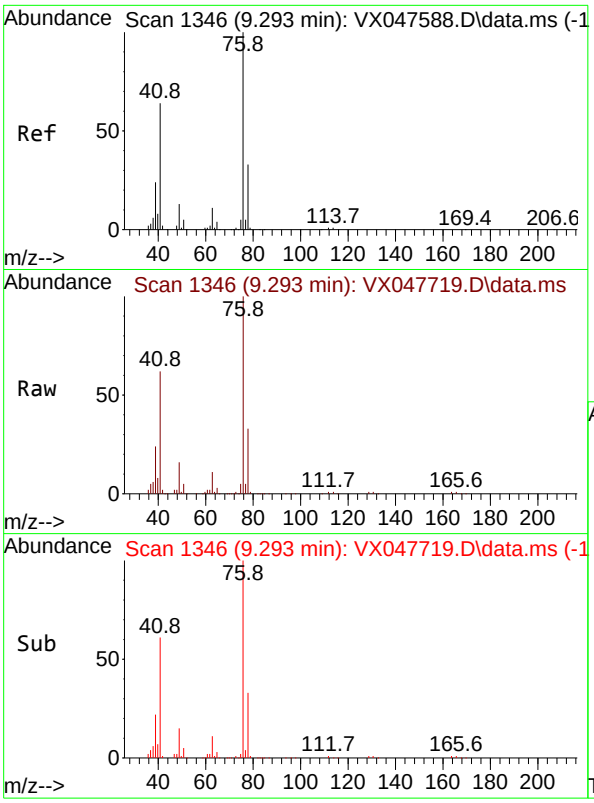


#56
Ethyl methacrylate
Concen: 56.751 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 69 Resp: 167018

Ion	Ratio	Lower	Upper
69	100		
41	70.6	58.6	87.8
39	37.2	31.5	47.3



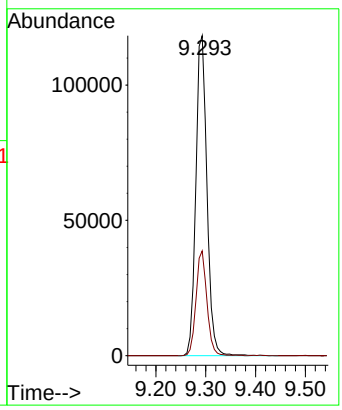


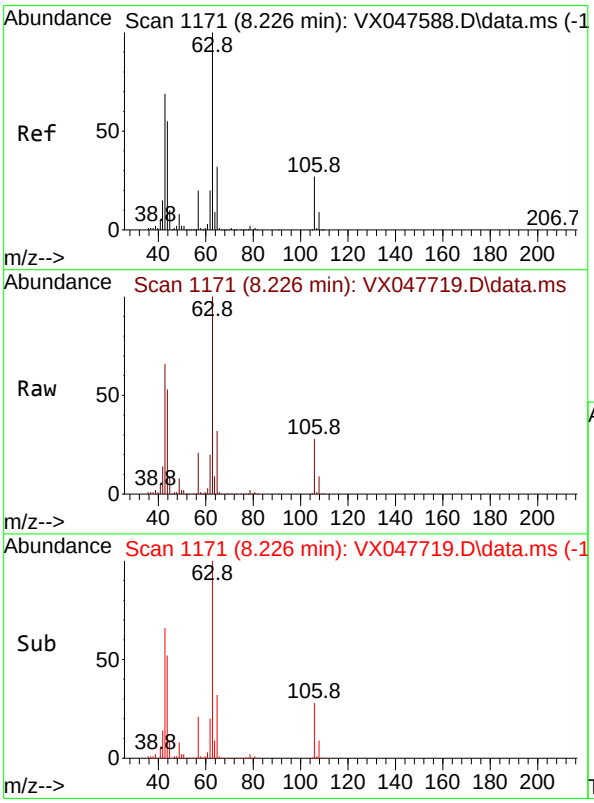
#57
1,3-Dichloropropane
Concen: 56.707 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 182551

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4

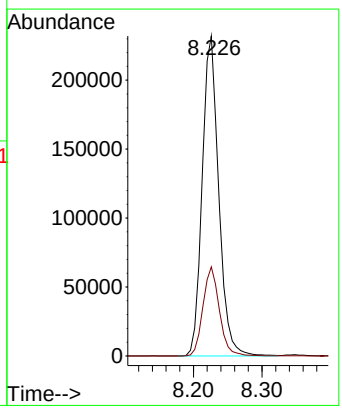


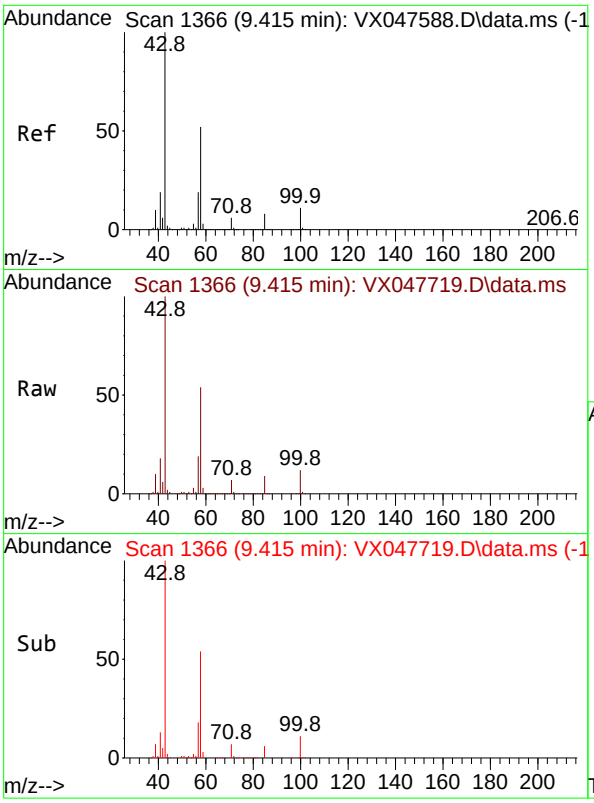


#58
2-Chloroethyl Vinyl ether
Concen: 274.956 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 63 Resp: 389211

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.9	32.9



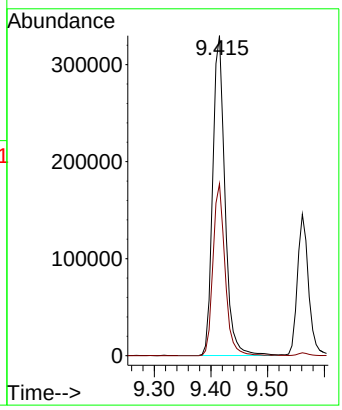


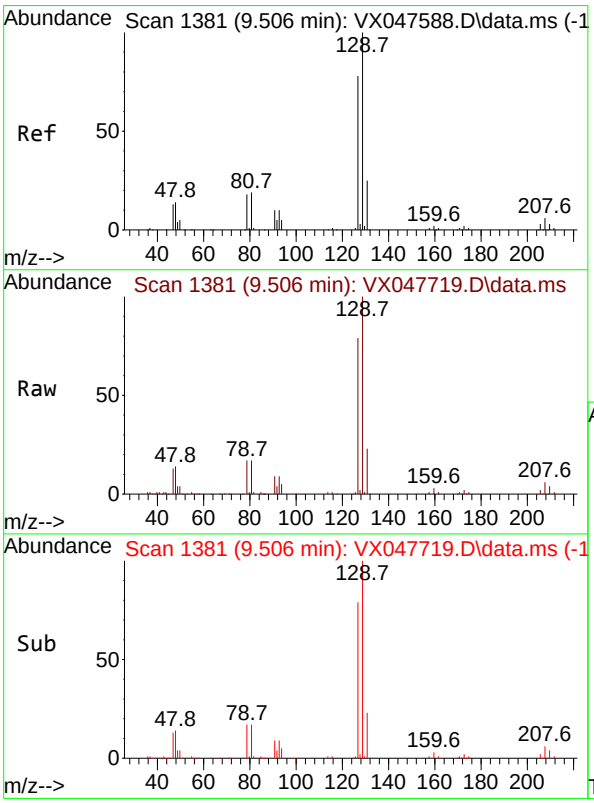
#59
2-Hexanone
Concen: 272.845 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 495514

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2

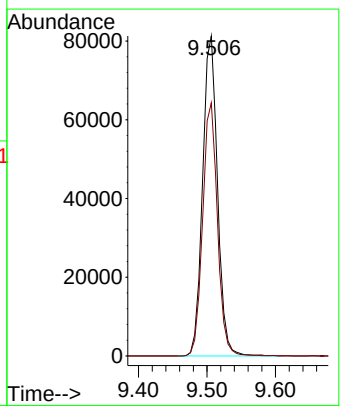


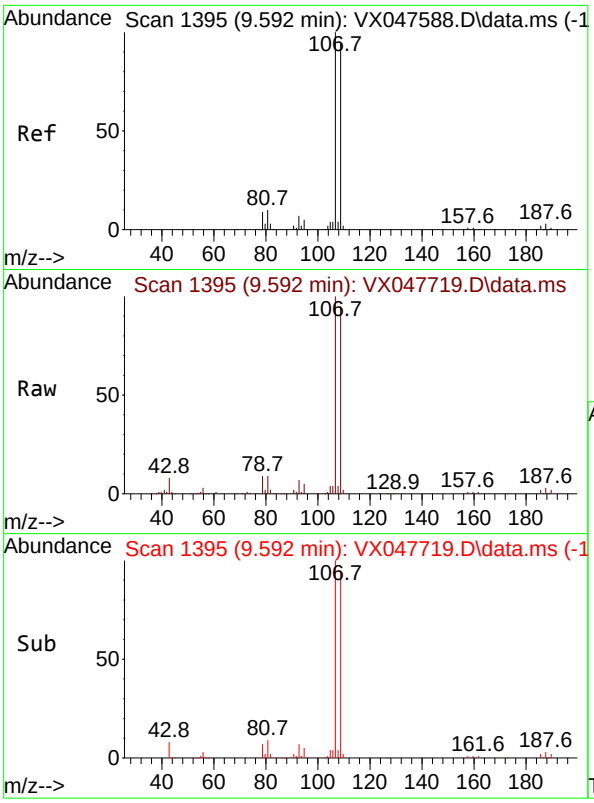


#60
Dibromochloromethane
Concen: 56.997 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:129 Resp: 123071

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.4	115.2



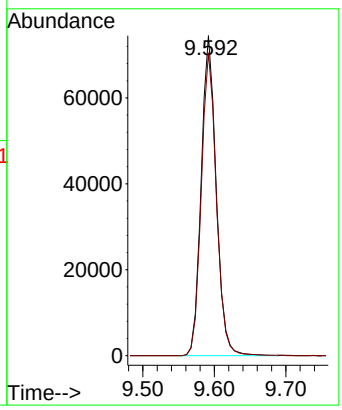


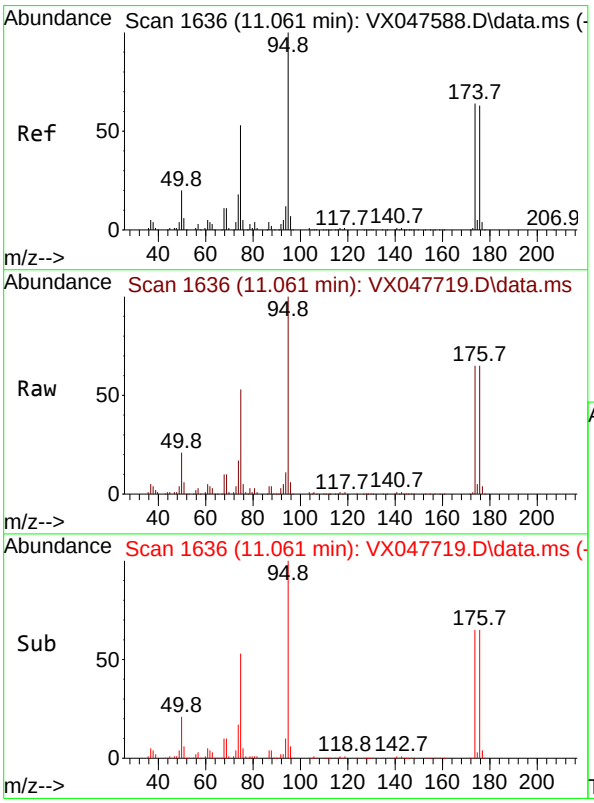
#61
1,2-Dibromoethane
Concen: 56.870 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 108549

Ion	Ratio	Lower	Upper
107	100		
109	95.2	75.3	112.9

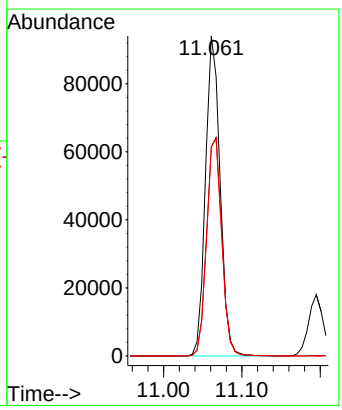


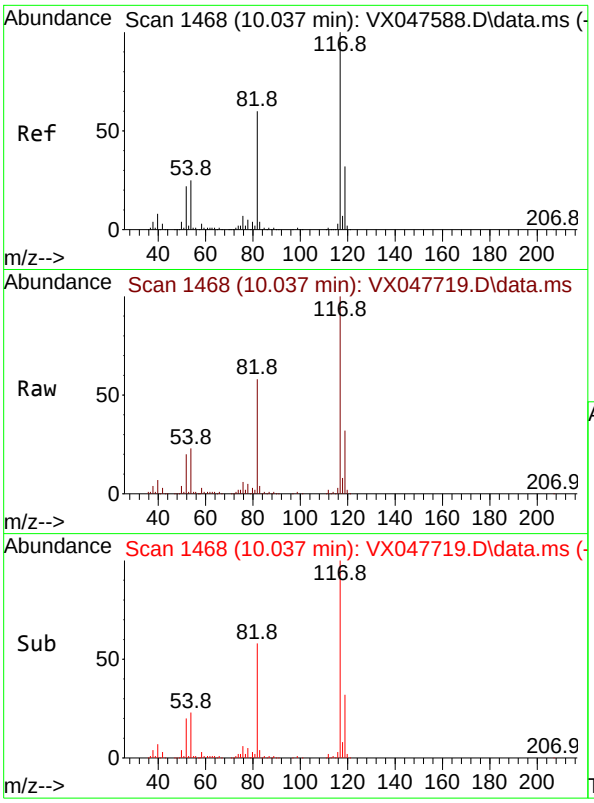


#62
4-Bromofluorobenzene
Concen: 52.073 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 95 Resp: 121543

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	141.6
176	70.0	0.0	138.4



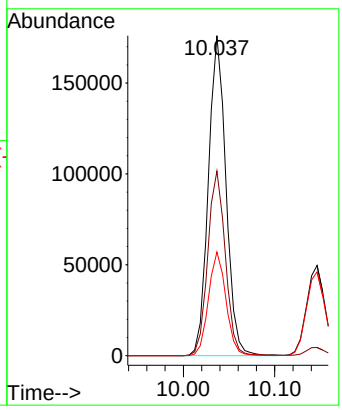


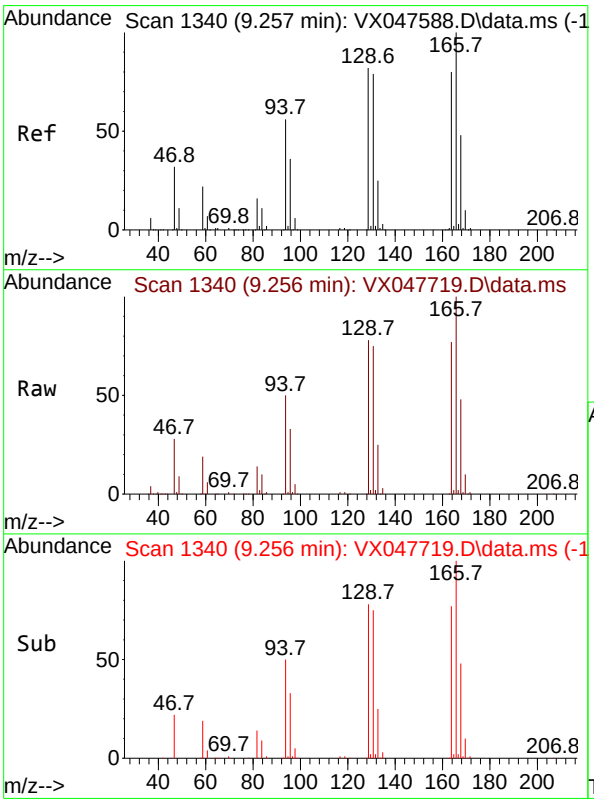
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 235703

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	32.4	25.2	37.8

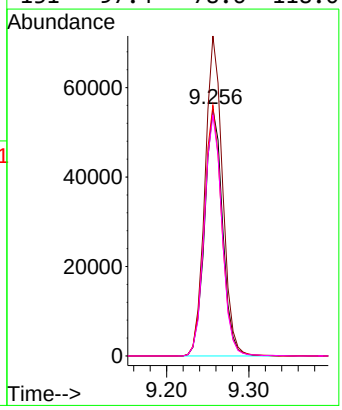


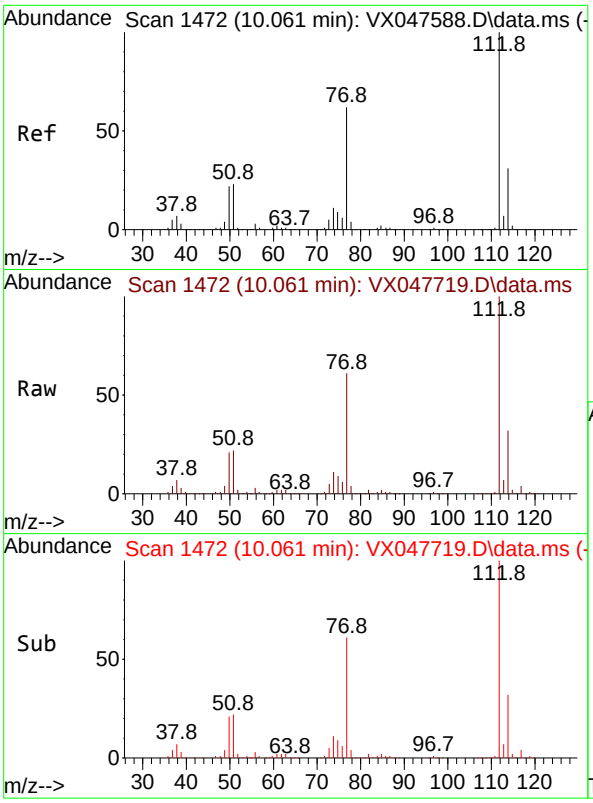


#64
Tetrachloroethene
Concen: 54.167 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:164 Resp: 83230

Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.2	150.2
129	101.4	81.8	122.6
131	97.4	78.6	118.0



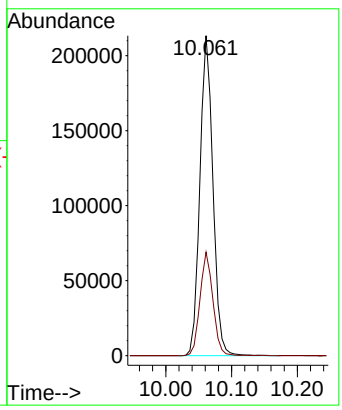


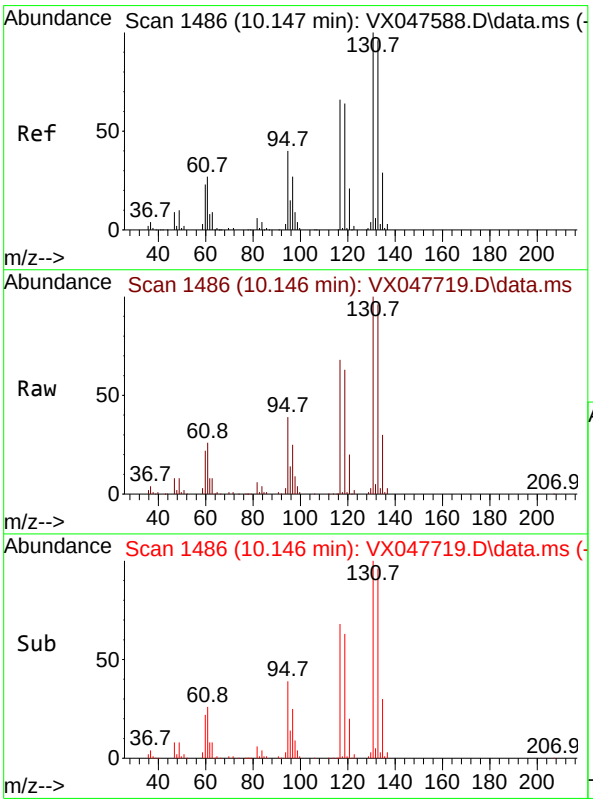
#65
Chlorobenzene
Concen: 54.848 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 293695

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.1	37.7

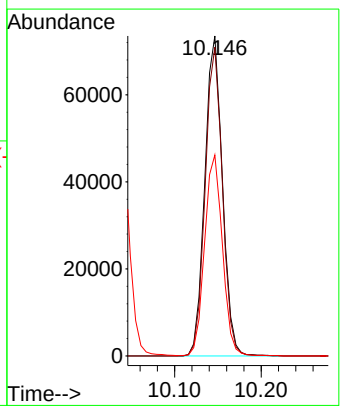


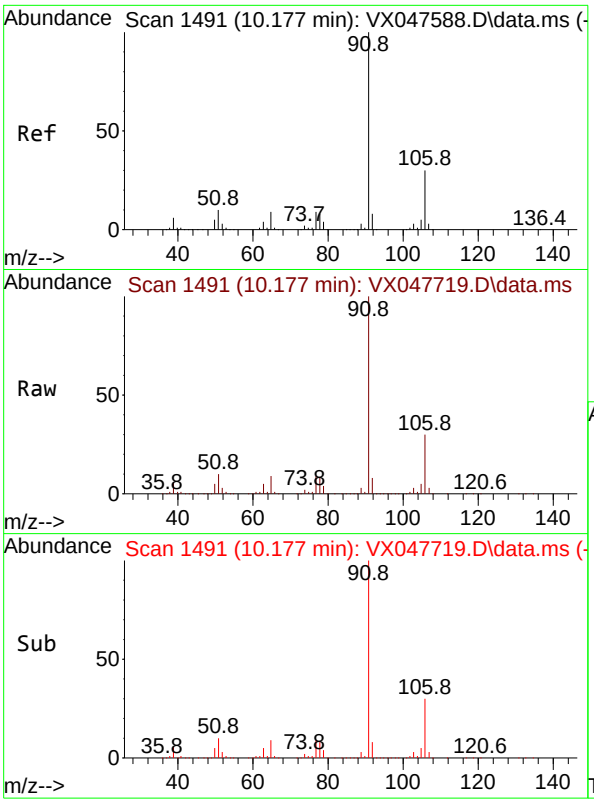


#66
1,1,1,2-Tetrachloroethane
Concen: 56.149 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:131 Resp: 103750

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	142.0
119	63.7	32.0	96.0



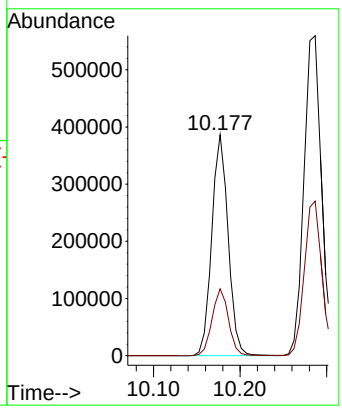


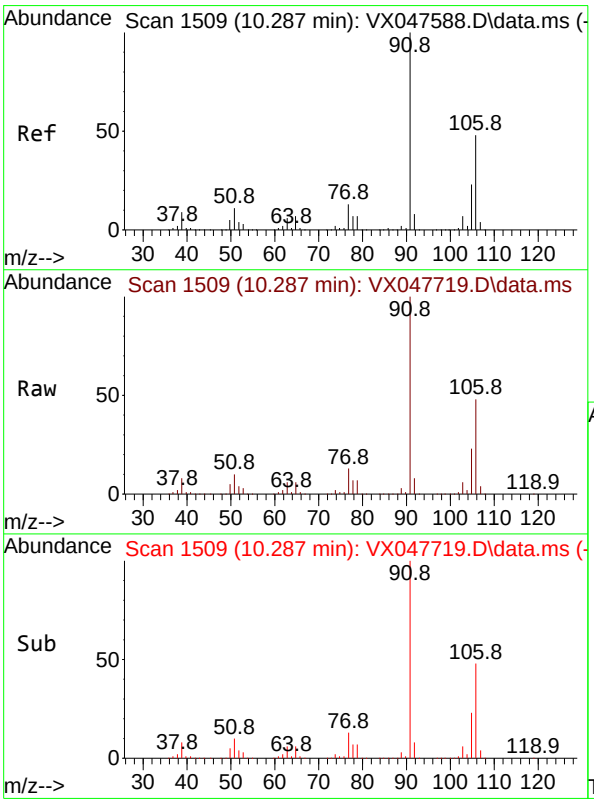
#67
Ethyl Benzene
Concen: 54.859 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 506854

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

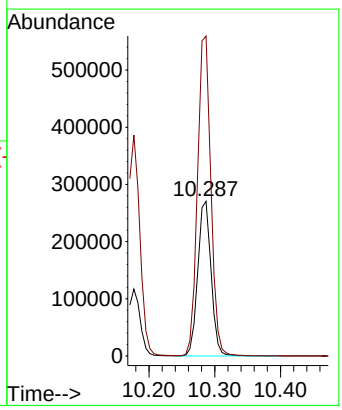


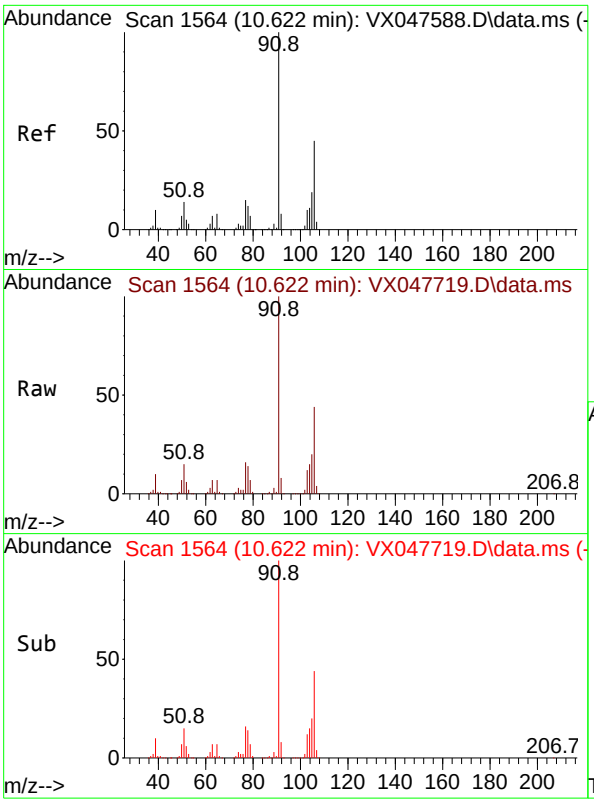


#68
m/p-Xylenes
Concen: 110.636 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:106 Resp: 380464

Ion	Ratio	Lower	Upper
106	100		
91	208.3	167.8	251.8



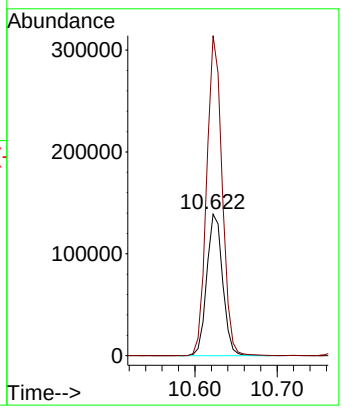


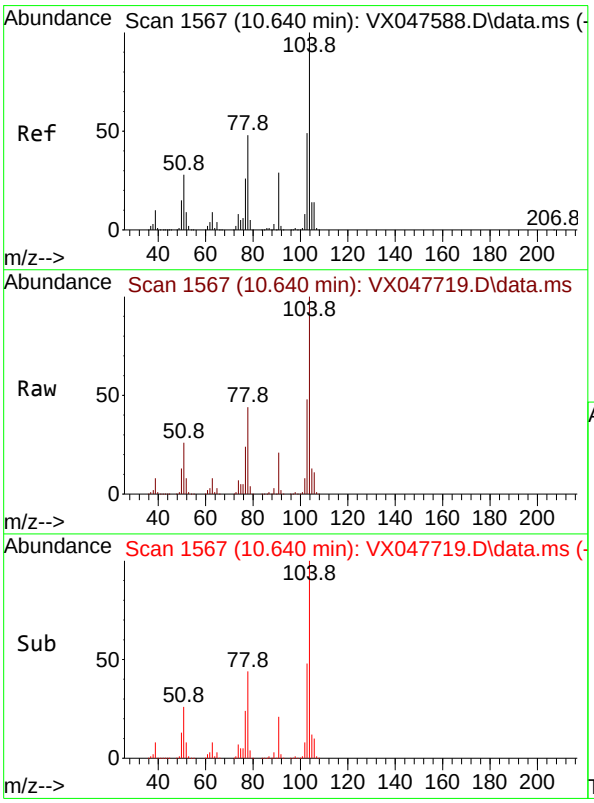
#69
o-Xylene
Concen: 55.967 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 186157

Ion	Ratio	Lower	Upper
106	100		
91	220.1	111.1	333.4

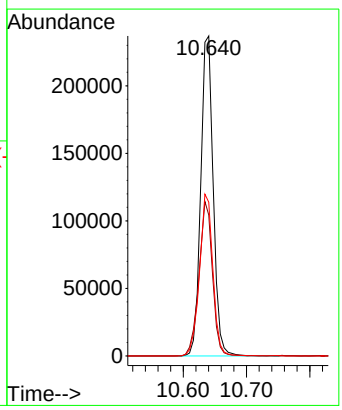


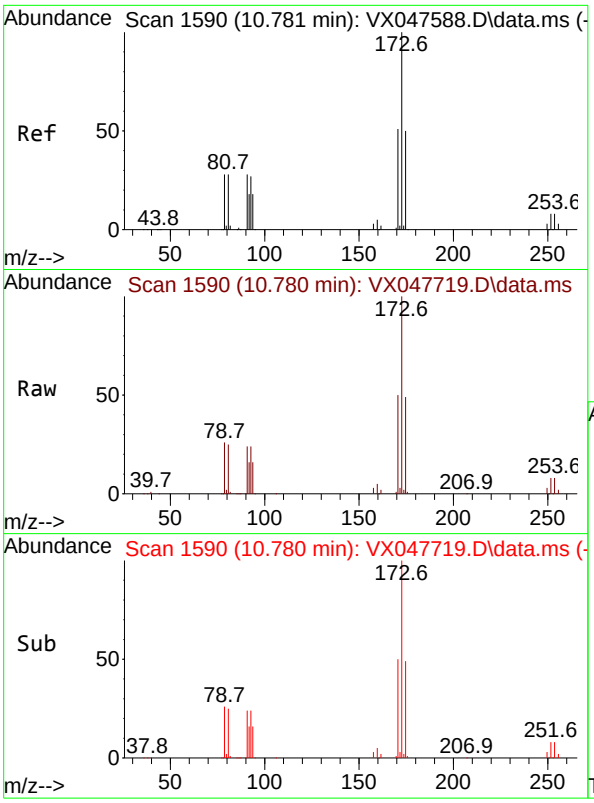


#70
Styrene
Concen: 55.888 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:104 Resp: 325724

Ion	Ratio	Lower	Upper
104	100		
78	52.1	43.1	64.7
103	54.2	43.1	64.7



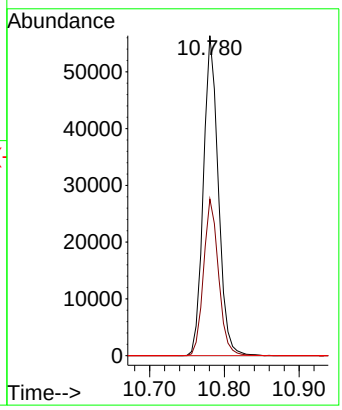


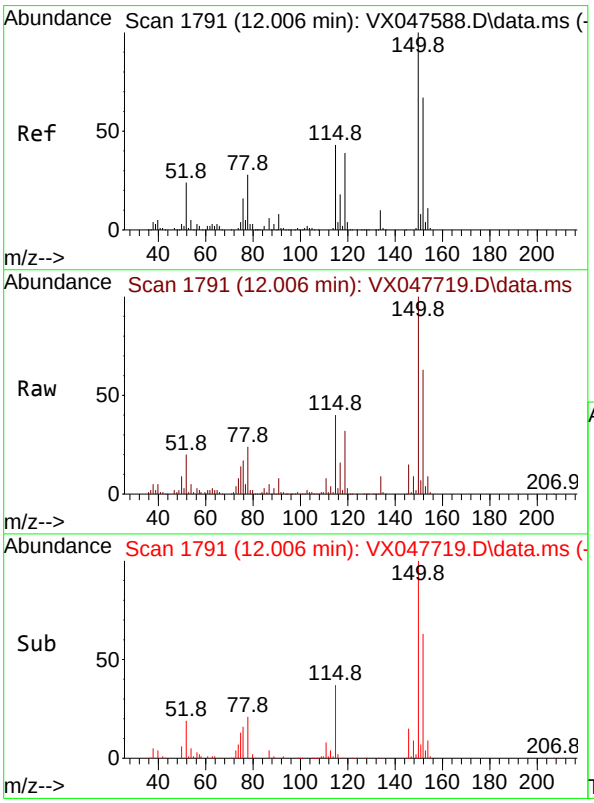
#71
Bromoform
Concen: 56.699 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 78229

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.9	74.6
254	0.0	0.1	0.1#

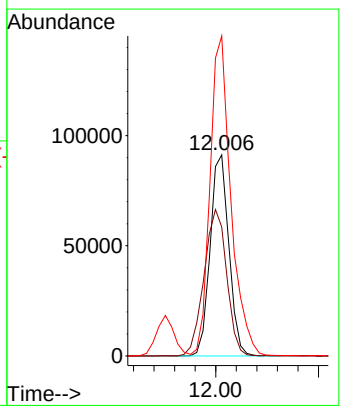


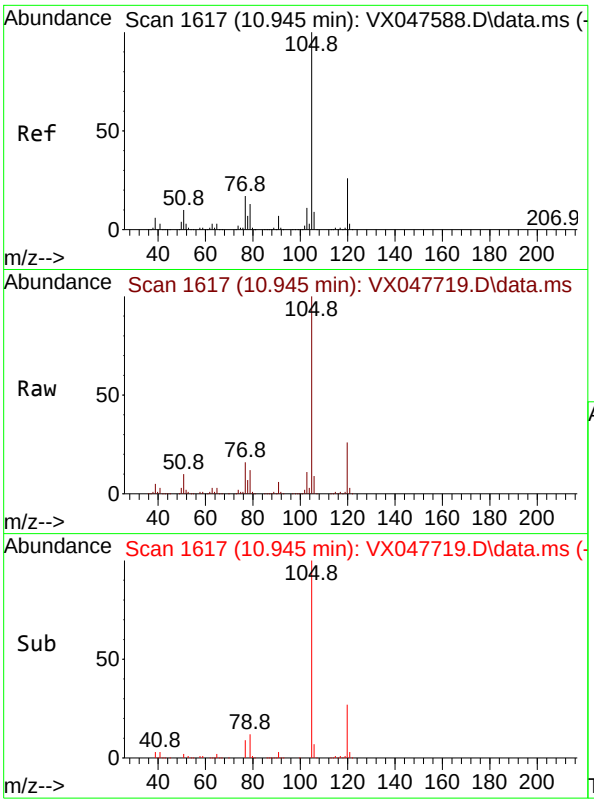


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:152 Resp: 115061

Ion	Ratio	Lower	Upper
152	100		
115	88.5	44.9	134.5
150	177.7	0.0	352.0



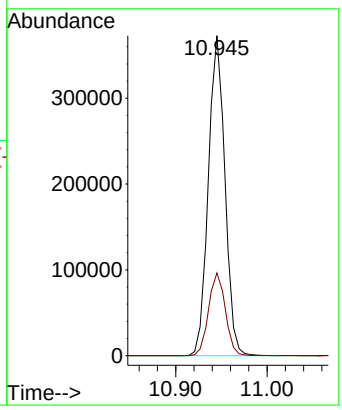


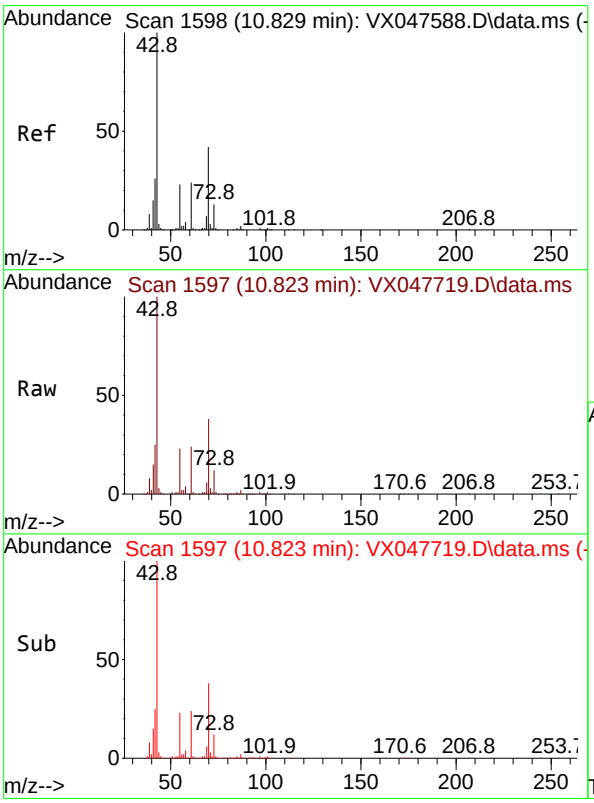
#73
Isopropylbenzene
Concen: 53.558 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 468503

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4

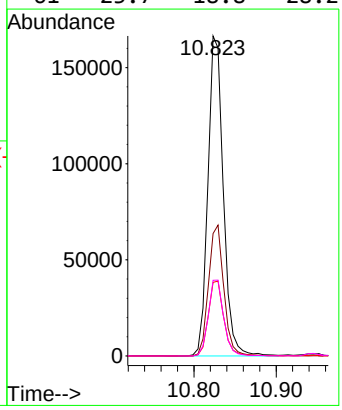


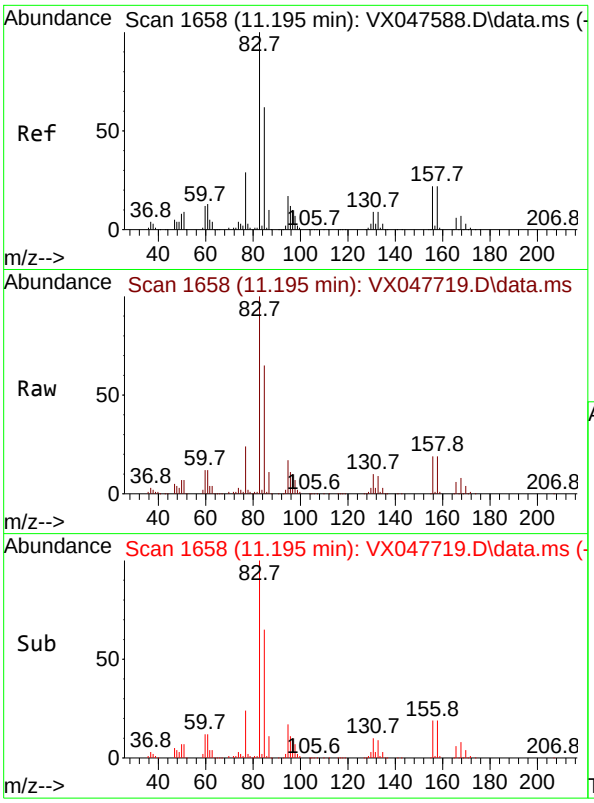


#74
N-amyl acetate
Concen: 54.388 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 43 Resp: 216957

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	23.6	18.9	28.3
61	23.7	18.8	28.2



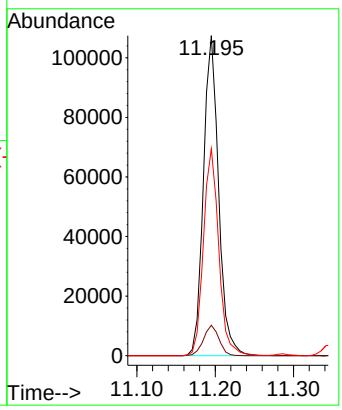


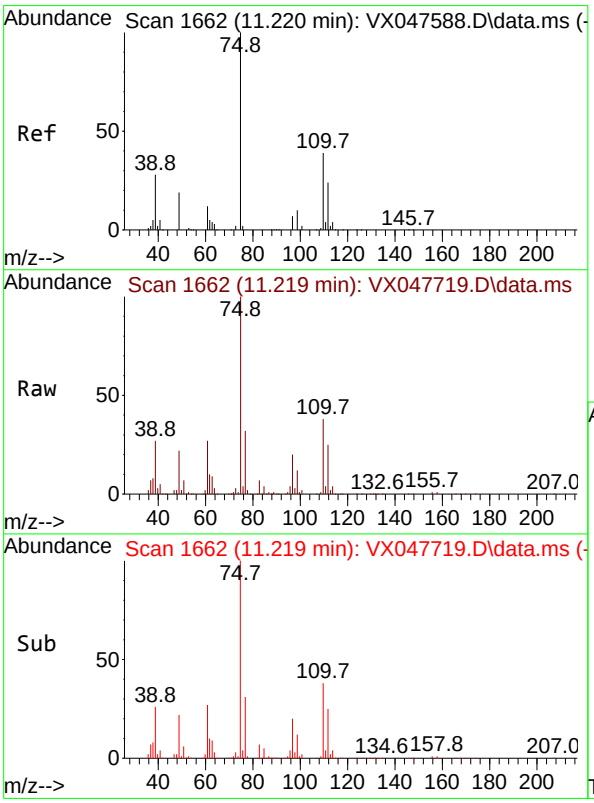
#75
1,1,2,2-Tetrachloroethane
Concen: 54.463 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 144143

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	65.2	31.6	95.0

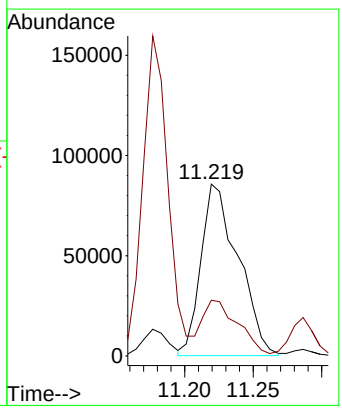


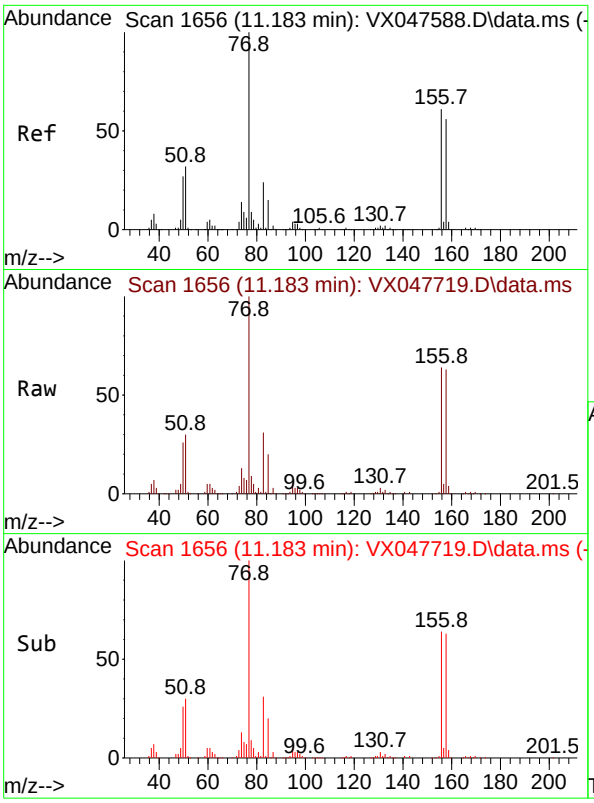


#76
1,2,3-Trichloropropane
Concen: 69.616 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 162179

Ion	Ratio	Lower	Upper
75	100		
77	30.6	18.8	56.4



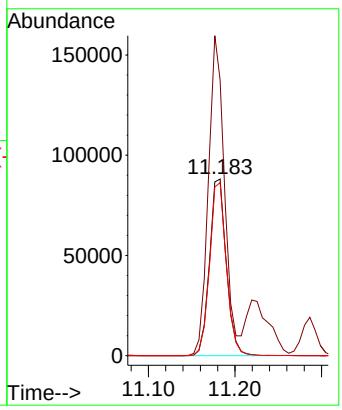


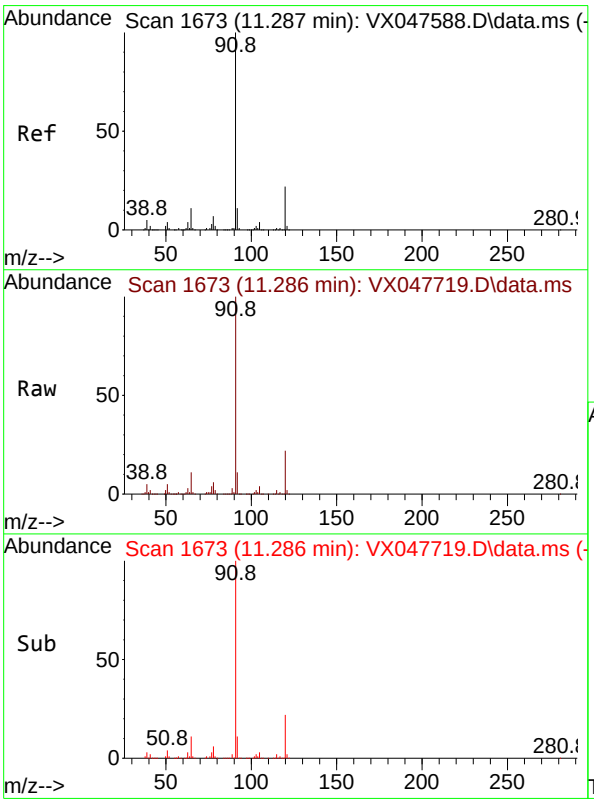
#77
Bromobenzene
Concen: 54.994 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 118485

Ion	Ratio	Lower	Upper
156	100		
77	171.8	89.7	269.1
158	97.5	47.9	143.6

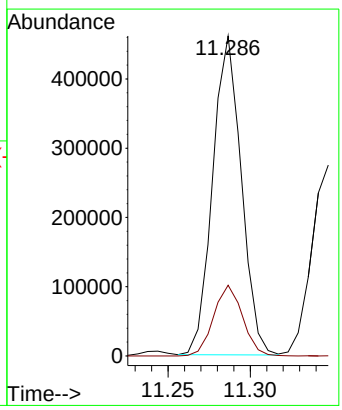


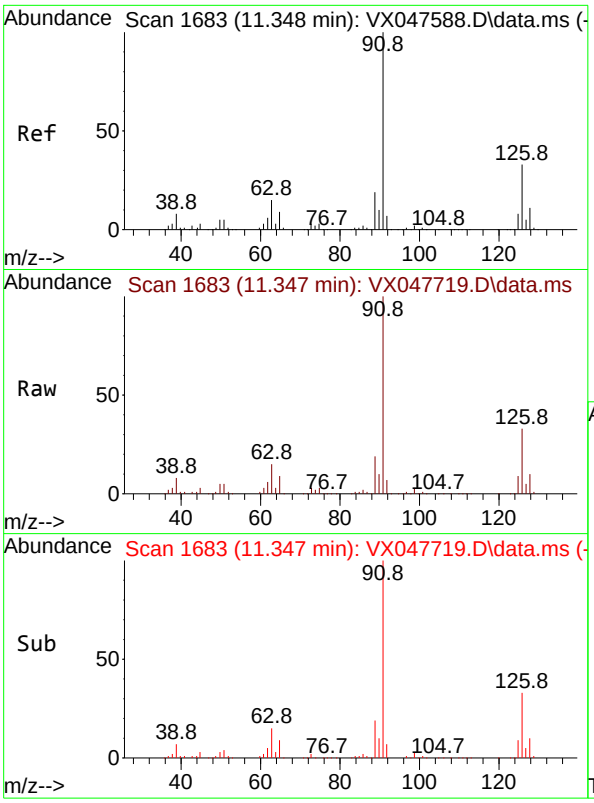


#78
n-propylbenzene
Concen: 53.923 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 557613

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



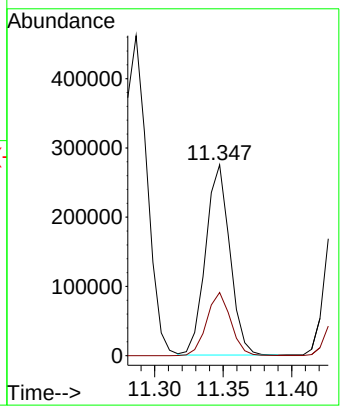


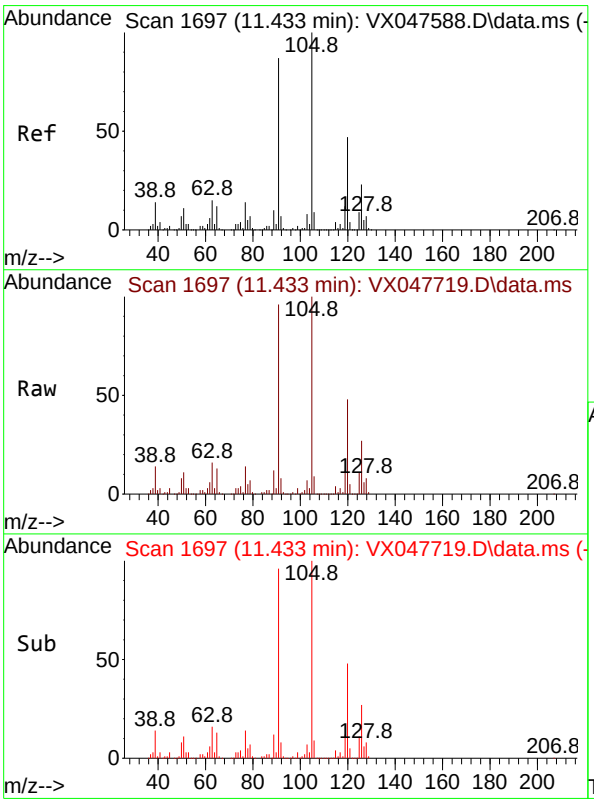
#79
2-Chlorotoluene
Concen: 53.352 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 337904

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.1	48.3

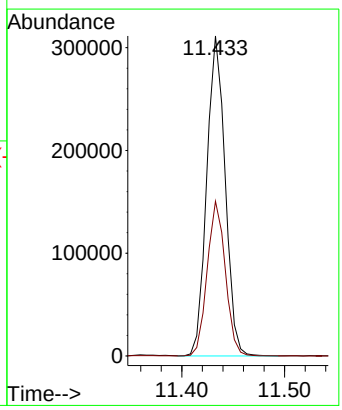


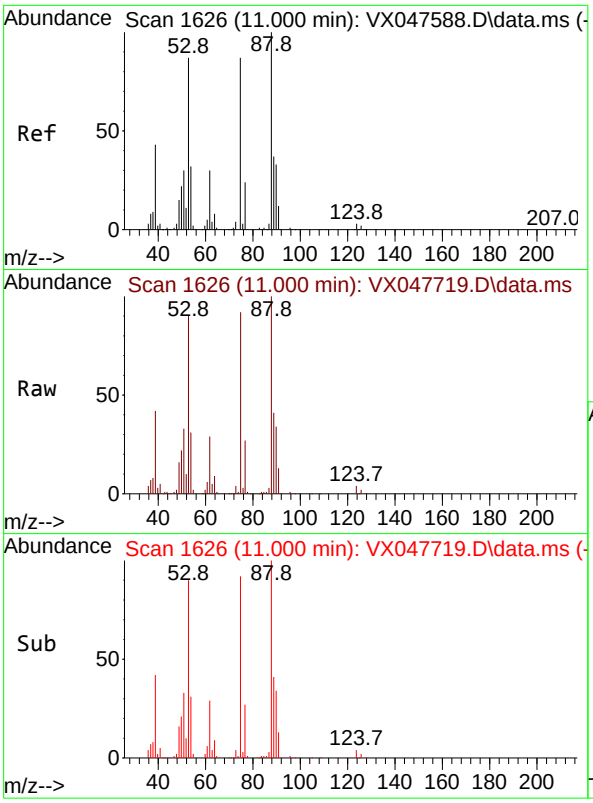


#80
1,3,5-Trimethylbenzene
Concen: 53.867 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 387138

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.6	70.8



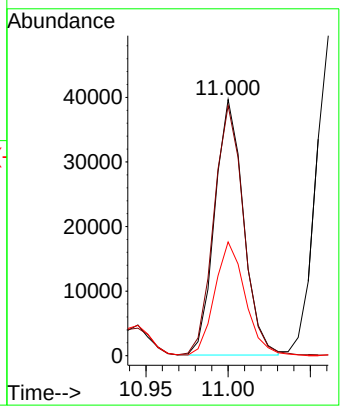


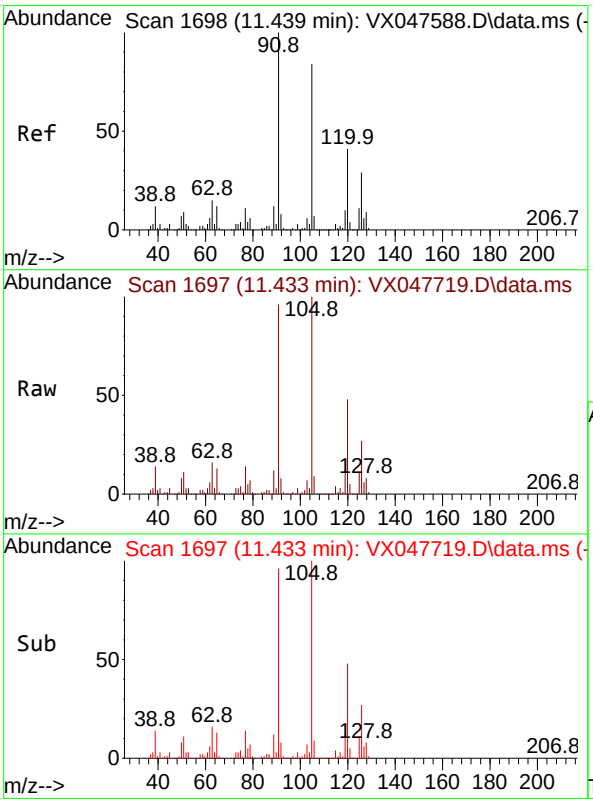
#81
trans-1,4-Dichloro-2-butene
Concen: 52.569 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 48023

Ion	Ratio	Lower	Upper
75	100		
53	101.5	83.4	125.2
89	47.5	36.3	54.5

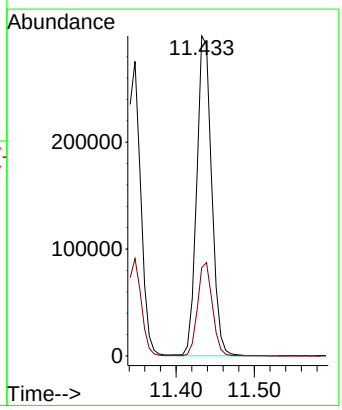


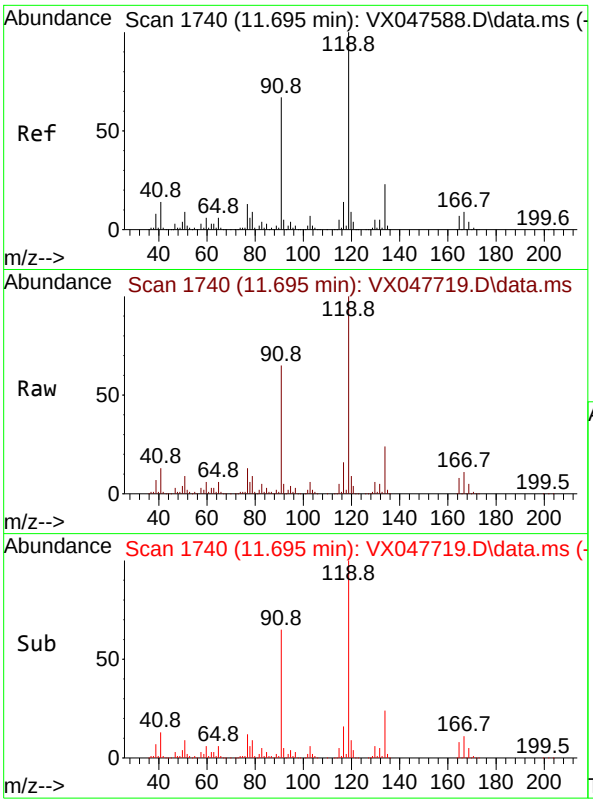


#82
4-Chlorotoluene
Concen: 53.035 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 91 Resp: 396717

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6



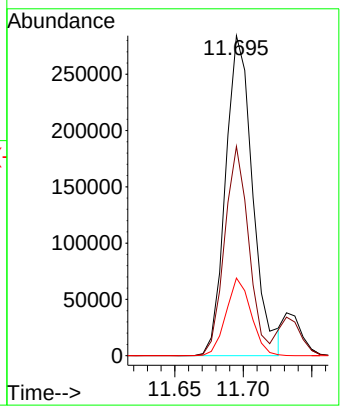


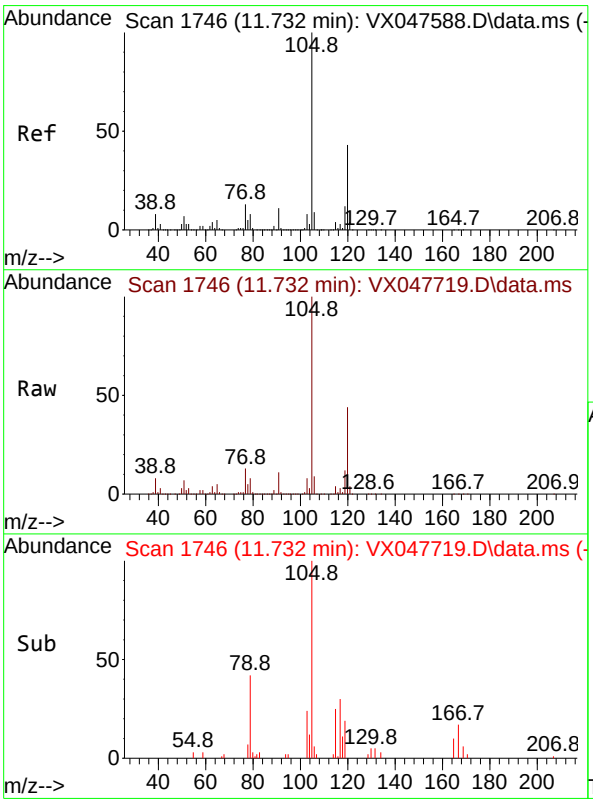
#83
tert-Butylbenzene
Concen: 53.095 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 390632

Ion	Ratio	Lower	Upper
119	100		
91	58.5	29.6	88.8
134	22.4	11.0	33.0

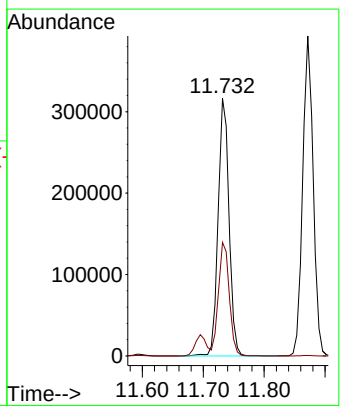


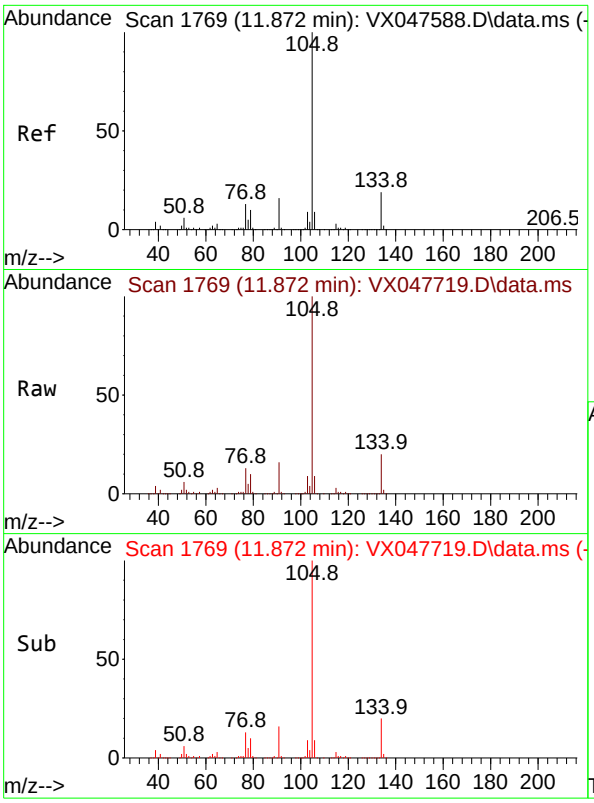


#84
1,2,4-Trimethylbenzene
Concen: 54.142 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:105 Resp: 394502

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1



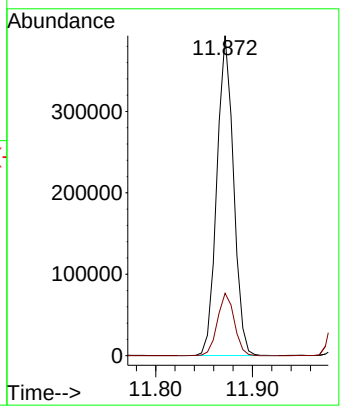


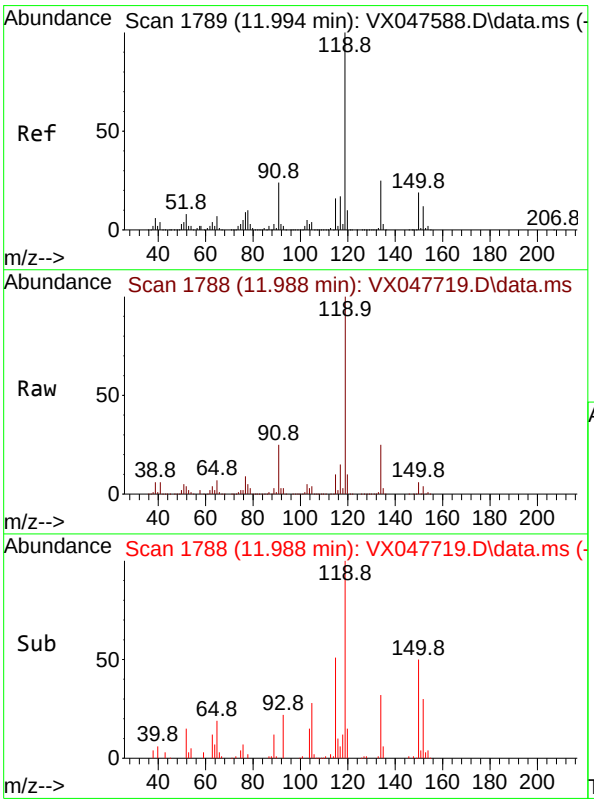
#85
sec-Butylbenzene
Concen: 53.598 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 468381

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

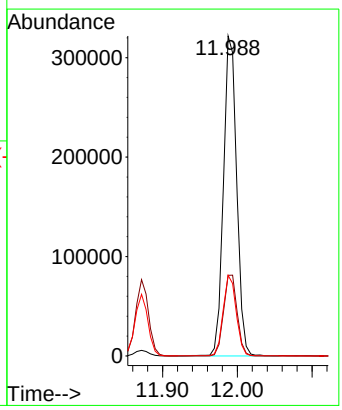


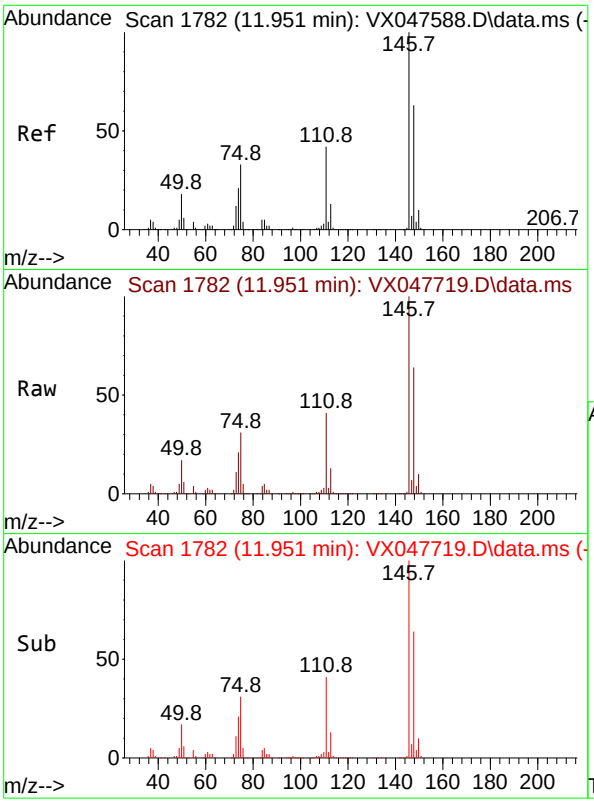


#86
p-Isopropyltoluene
Concen: 53.461 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:119 Resp: 395524

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	24.8	12.6	37.6



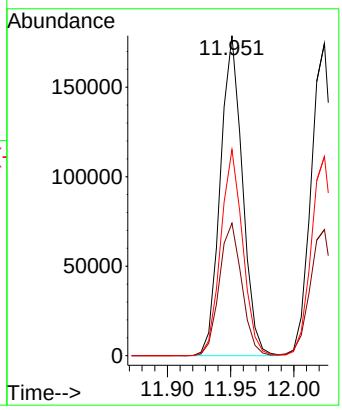


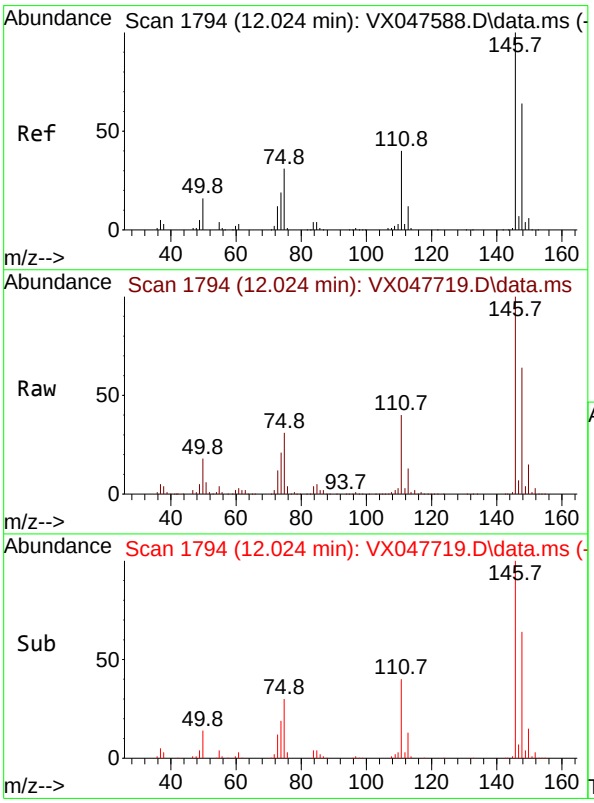
#87
1,3-Dichlorobenzene
Concen: 54.263 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 217150

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	64.0	32.0	96.0

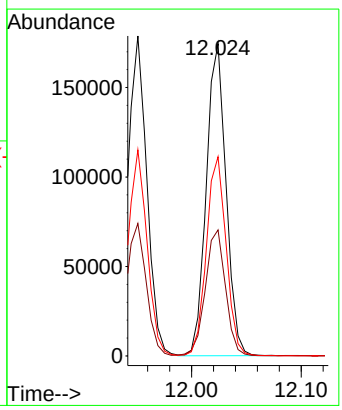


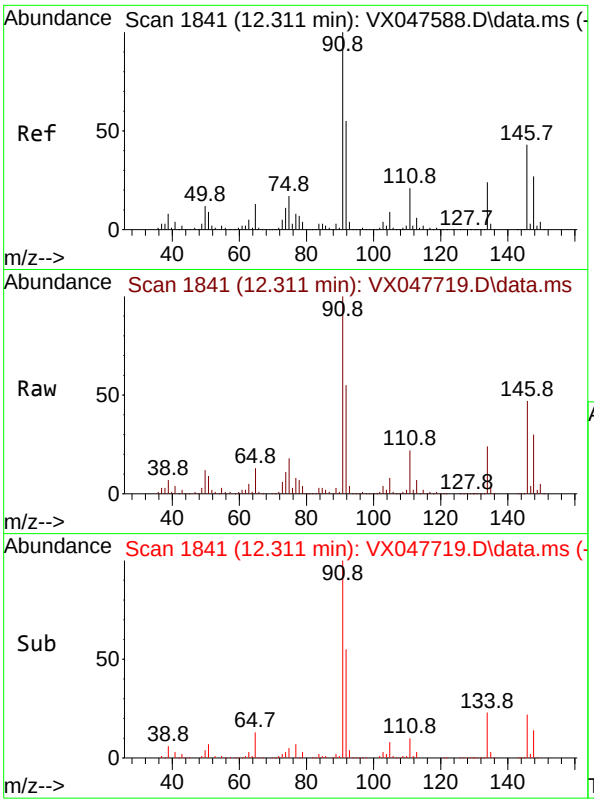


#88
1,4-Dichlorobenzene
Concen: 53.031 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:146 Resp: 217807

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.8	62.4
148	64.0	31.7	95.1



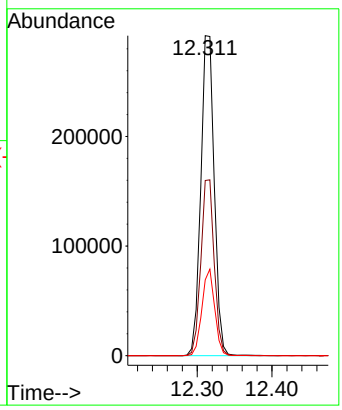


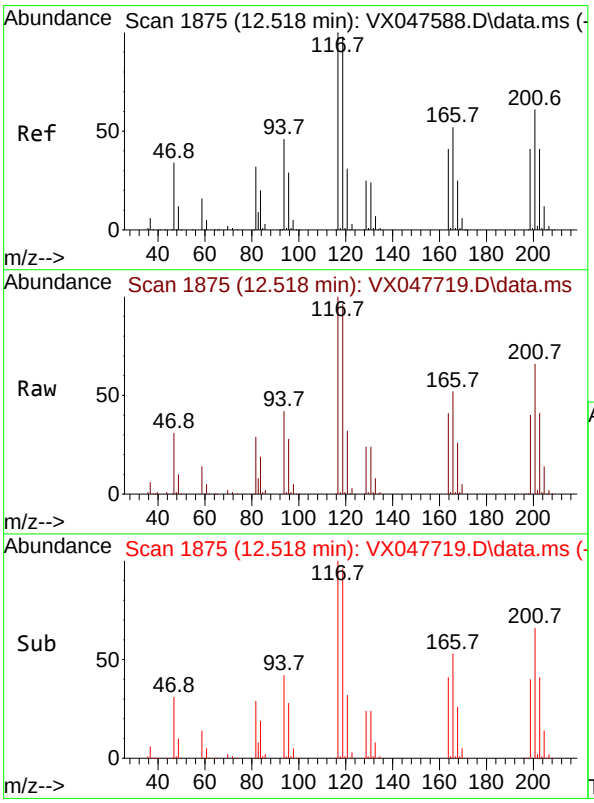
#89
n-Butylbenzene
Concen: 53.292 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 364819

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.7	12.6	37.8

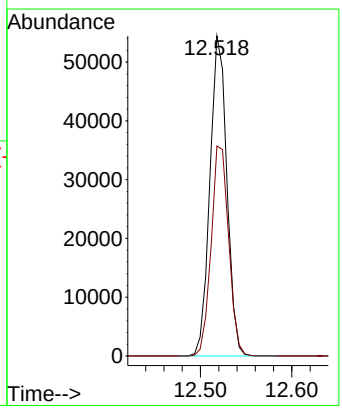


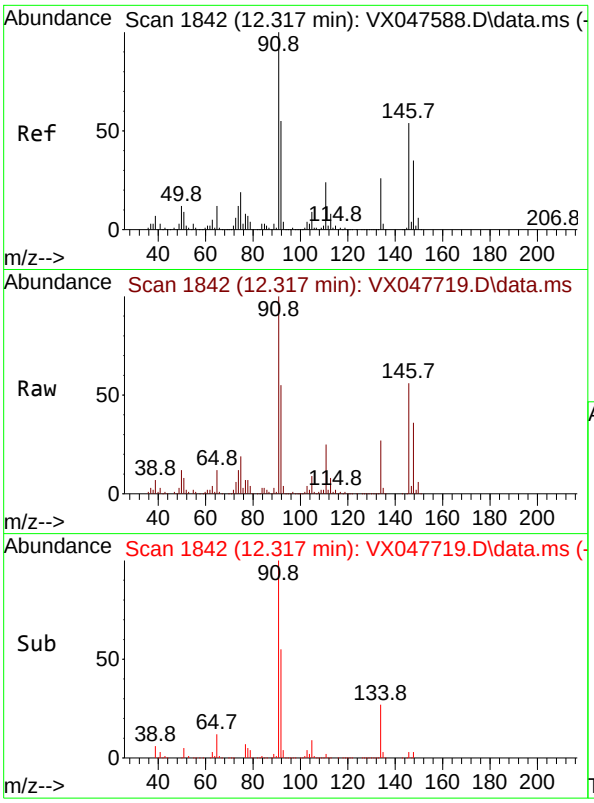


#90
Hexachloroethane
Concen: 53.956 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:117 Resp: 70085

Ion	Ratio	Lower	Upper
117	100		
201	67.8	34.2	102.5



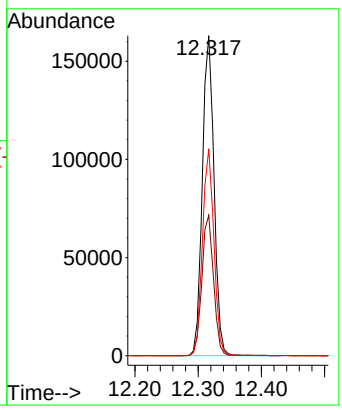


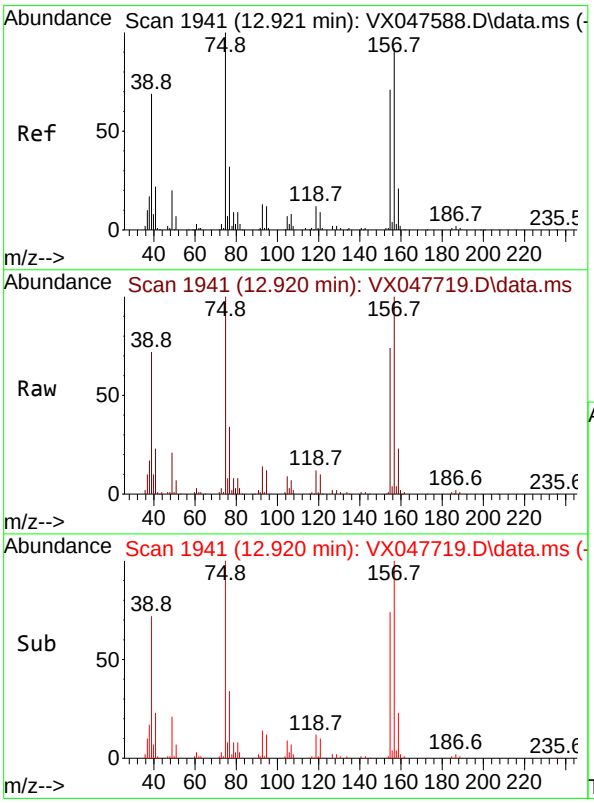
#91
1,2-Dichlorobenzene
Concen: 55.091 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 210035

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.5	31.8	95.4

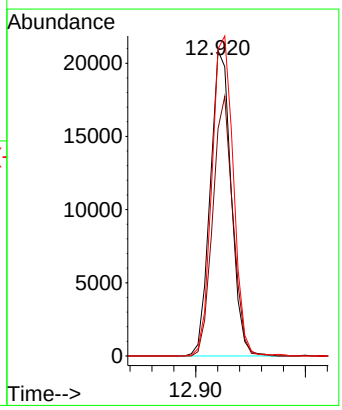


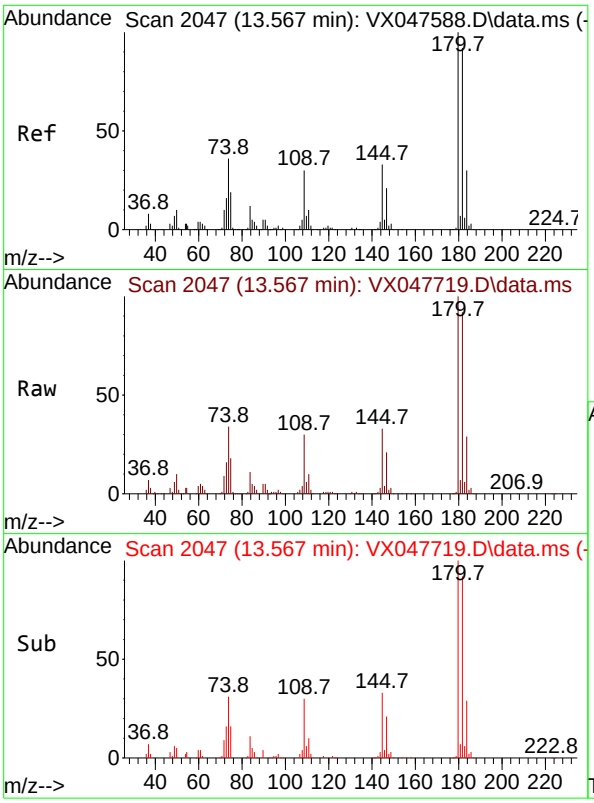


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.656 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion: 75 Resp: 27679

Ion	Ratio	Lower	Upper
75	100		
155	81.6	37.7	113.1
157	107.5	49.8	149.4



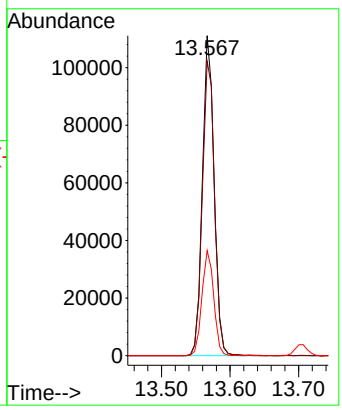


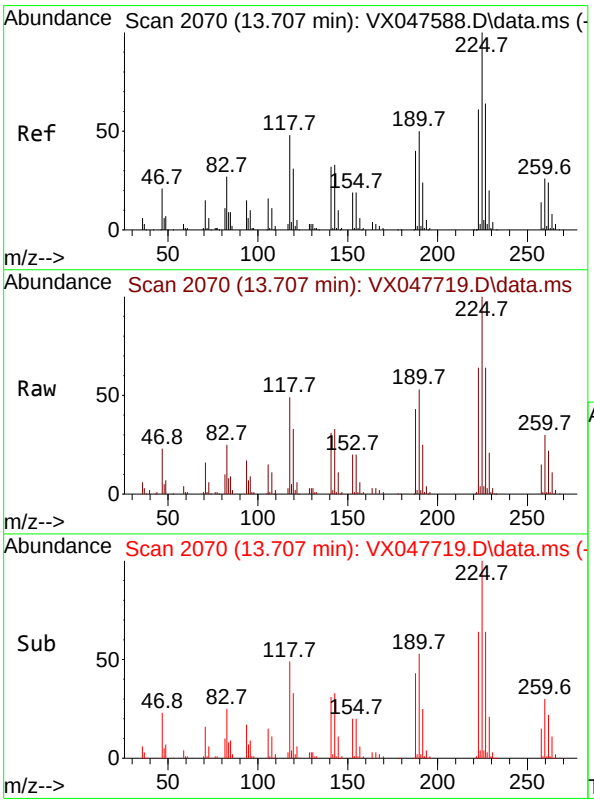
#93
1,2,4-Trichlorobenzene
Concen: 53.421 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 132366

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	33.1	16.4	49.1

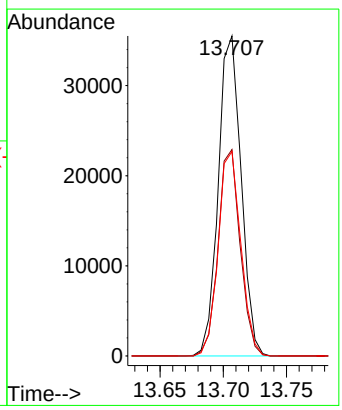


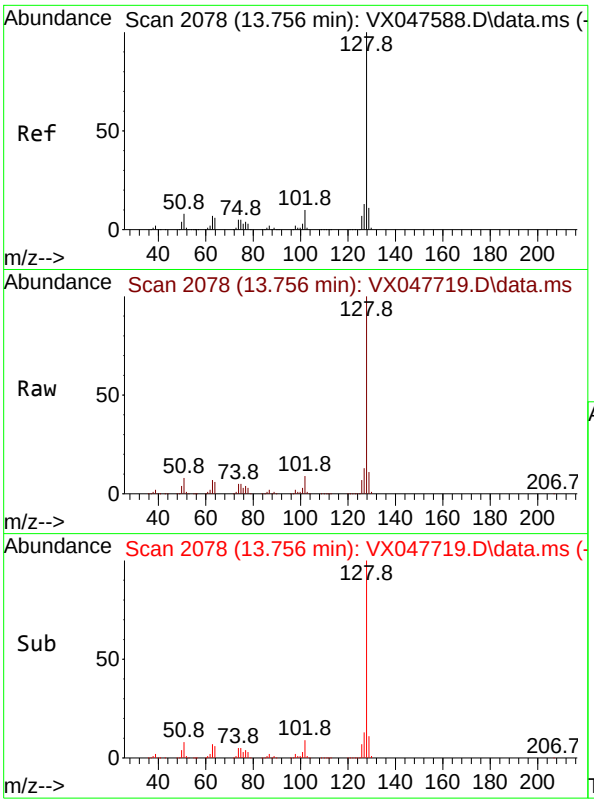


#94
Hexachlorobutadiene
Concen: 52.946 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:225 Resp: 44561

Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.7	95.1
227	63.2	32.0	96.0



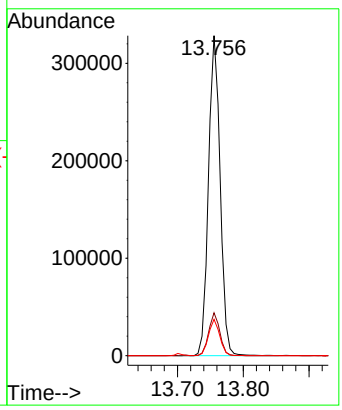


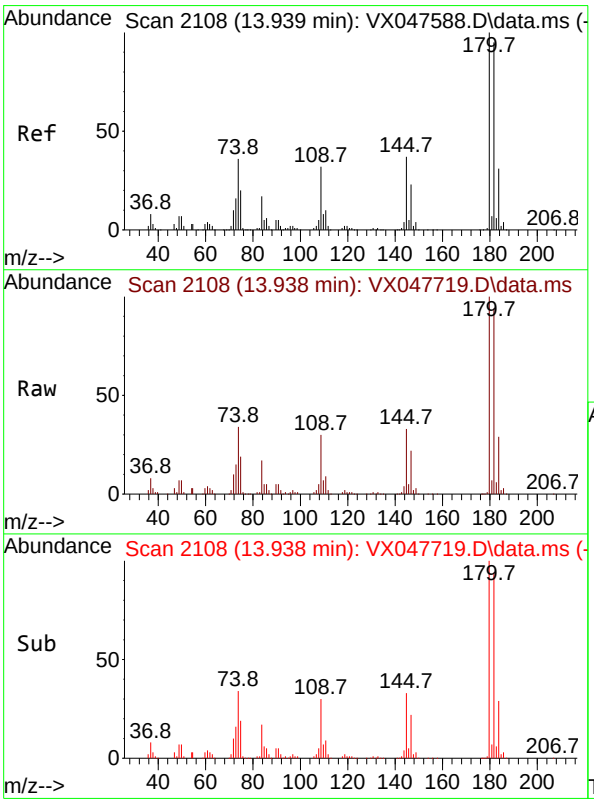
#95
Naphthalene
Concen: 53.744 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 405500

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.0	8.8	13.2

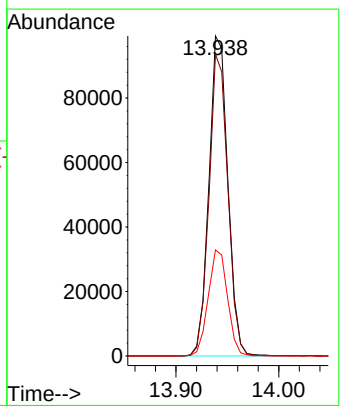




#96
1,2,3-Trichlorobenzene
Concen: 55.060 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047719.D
Acq: 23 Sep 2025 09:02

Tgt Ion:180 Resp: 126908

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.6	142.8
145	33.8	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	181787	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	322664	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	289792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141661	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	130163	44.983	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 89.960%			
35) Dibromofluoromethane	5.367	113	99865	46.149	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.300%			
50) Toluene-d8	8.635	98	347178	46.366	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.740%			
62) 4-Bromofluorobenzene	11.061	95	132914	46.772	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 93.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	36156	19.207	ug/l	99
3) Chloromethane	1.301	50	43445	17.560	ug/l	96
4) Vinyl Chloride	1.380	62	42062	17.368	ug/l	99
5) Bromomethane	1.618	94	28441	18.520	ug/l	96
6) Chloroethane	1.697	64	26753	16.528	ug/l	98
7) Trichlorofluoromethane	1.898	101	59843	16.642	ug/l	98
8) Diethyl Ether	2.136	74	24021	16.330	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	35974	17.109	ug/l	99
10) Methyl Iodide	2.453	142	51945	15.841	ug/l	99
11) Tert butyl alcohol	2.934	59	23851	74.010	ug/l	99
12) 1,1-Dichloroethene	2.325	96	36148	16.737	ug/l	94
13) Acrolein	2.233	56	26313	88.603	ug/l	100
14) Allyl chloride	2.666	41	70142	15.738	ug/l	98
15) Acrylonitrile	3.056	53	100750	84.401	ug/l	99
16) Acetone	2.374	43	90216	71.706	ug/l	98
17) Carbon Disulfide	2.514	76	101957	17.244	ug/l	99
18) Methyl Acetate	2.697	43	46539	16.621	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	128594	16.310	ug/l	98
20) Methylene Chloride	2.788	84	43710	16.413	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	39414	16.950	ug/l	96
22) Diisopropyl ether	3.745	45	144354	16.712	ug/l #	79
23) Vinyl Acetate	3.709	43	575126	83.195	ug/l	99
24) 1,1-Dichloroethane	3.599	63	75728	16.495	ug/l	99
25) 2-Butanone	4.538	43	123517	78.705	ug/l	99
26) 2,2-Dichloropropane	4.465	77	60715	15.910	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	46069	16.177	ug/l	97
28) Bromochloromethane	4.885	49	33685	16.807	ug/l	99
29) Tetrahydrofuran	4.995	42	79140	83.826	ug/l	98
30) Chloroform	5.074	83	77095	16.618	ug/l	98
31) Cyclohexane	5.458	56	63808	16.688	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	64618	16.421	ug/l	97
36) 1,1-Dichloropropene	5.672	75	53594	16.949	ug/l	99
37) Ethyl Acetate	4.696	43	53300	15.743	ug/l	99
38) Carbon Tetrachloride	5.666	117	54702	15.922	ug/l	99
39) Methylcyclohexane	7.360	83	62254	17.344	ug/l	97
40) Benzene	6.025	78	160358	16.697	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	30351	17.365	ug/l		96
42) 1,2-Dichloroethane	6.068	62	60128	16.455	ug/l		98
43) Isopropyl Acetate	6.318	43	90880	16.367	ug/l		99
44) Trichloroethene	7.111	130	40550	17.464	ug/l		95
45) 1,2-Dichloropropane	7.409	63	41341	16.811	ug/l		99
46) Dibromomethane	7.562	93	29969	16.746	ug/l		97
47) Bromodichloromethane	7.806	83	61218	16.577	ug/l		100
48) Methyl methacrylate	7.677	41	44713	16.166	ug/l		98
49) 1,4-Dioxane	7.647	88	10693	382.549	ug/l		94
51) 4-Methyl-2-Pentanone	8.555	43	264665	85.968	ug/l		99
52) Toluene	8.702	92	99779	16.863	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	61393	16.298	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	67677	16.810	ug/l		97
55) 1,1,2-Trichloroethane	9.135	97	39130	17.151	ug/l		99
56) Ethyl methacrylate	9.098	69	60408	16.859	ug/l		98
57) 1,3-Dichloropropane	9.293	76	68685	17.525	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	143660	91.195	ug/l		100
59) 2-Hexanone	9.415	43	183521	83.000	ug/l		99
60) Dibromochloromethane	9.506	129	45346	17.249	ug/l		100
61) 1,2-Dibromoethane	9.592	107	40518	17.435	ug/l		99
64) Tetrachloroethene	9.256	164	32372	17.136	ug/l		98
65) Chlorobenzene	10.061	112	109903	16.694	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.147	131	37383	16.455	ug/l		97
67) Ethyl Benzene	10.177	91	189524	16.684	ug/l		98
68) m/p-Xylenes	10.287	106	143444	33.927	ug/l		100
69) o-Xylene	10.622	106	68954	16.861	ug/l		99
70) Styrene	10.640	104	118603	16.552	ug/l		99
71) Bromoform	10.781	173	28237	16.646	ug/l	#	99
73) Isopropylbenzene	10.945	105	177153	16.449	ug/l		99
74) N-amyl acetate	10.823	43	80035	16.296	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	54058	16.590	ug/l		97
76) 1,2,3-Trichloropropane	11.220	75	57976	20.213	ug/l		91
77) Bromobenzene	11.183	156	43202	16.287	ug/l		98
78) n-propylbenzene	11.287	91	213079	16.736	ug/l		100
79) 2-Chlorotoluene	11.348	91	128239	16.446	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	147832	16.707	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	16574	14.736	ug/l		99
82) 4-Chlorotoluene	11.439	91	153584	16.677	ug/l		100
83) tert-Butylbenzene	11.695	119	149430	16.497	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	150232	16.747	ug/l		100
85) sec-Butylbenzene	11.872	105	181026	16.825	ug/l		100
86) p-Isopropyltoluene	11.994	119	154052	16.913	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	83142	16.875	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	83968	16.605	ug/l		99
89) n-Butylbenzene	12.317	91	144464	17.140	ug/l		99
90) Hexachloroethane	12.518	117	25557	15.981	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	78309	16.683	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	10024	15.194	ug/l		95
93) 1,2,4-Trichlorobenzene	13.567	180	49366	16.182	ug/l		99
94) Hexachlorobutadiene	13.707	225	17786	17.165	ug/l		98
95) Naphthalene	13.756	128	146235	15.742	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	46461	16.373	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

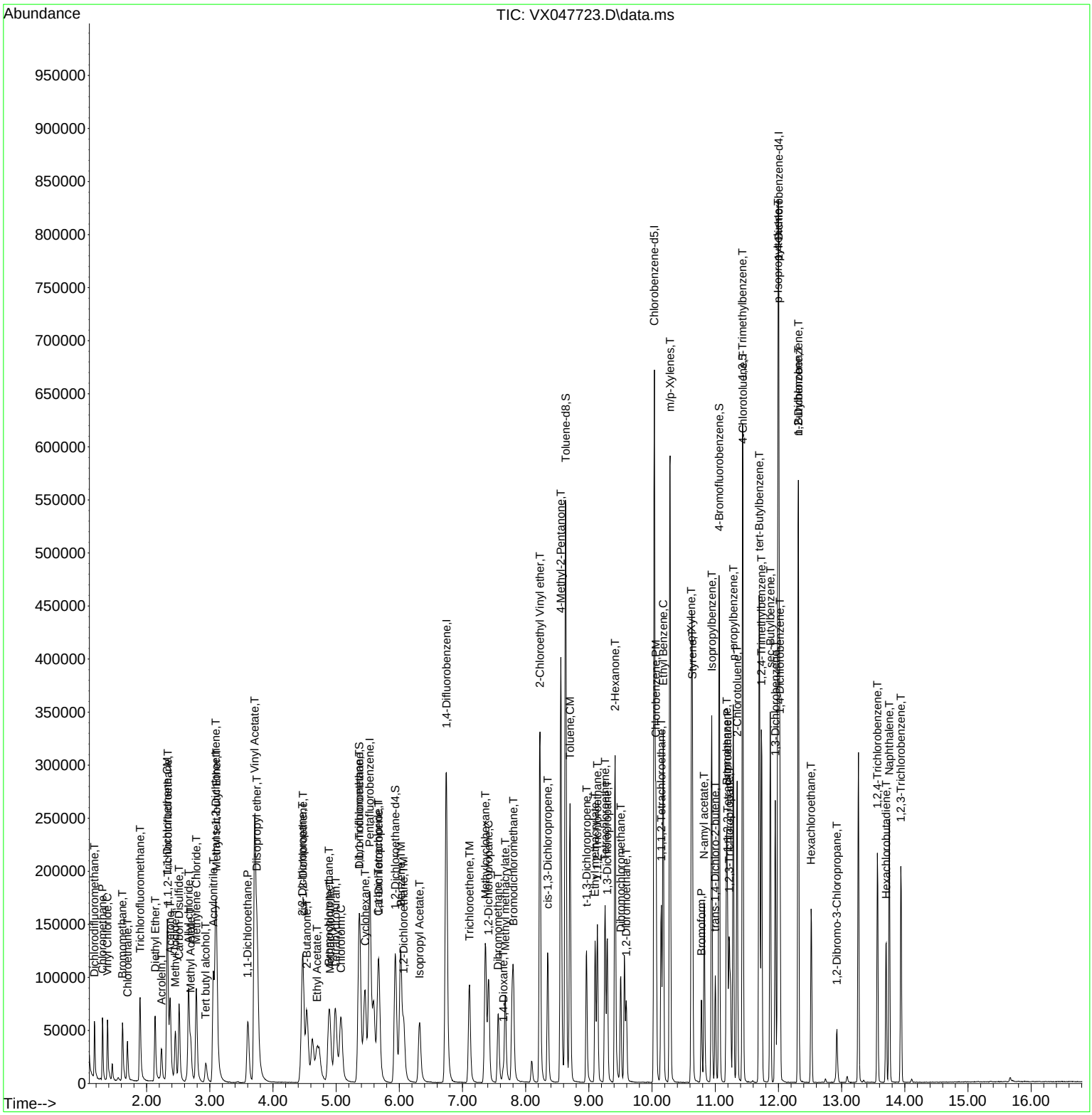
(#) = qualifier out of range (m) = manual integration (+) = signals summed

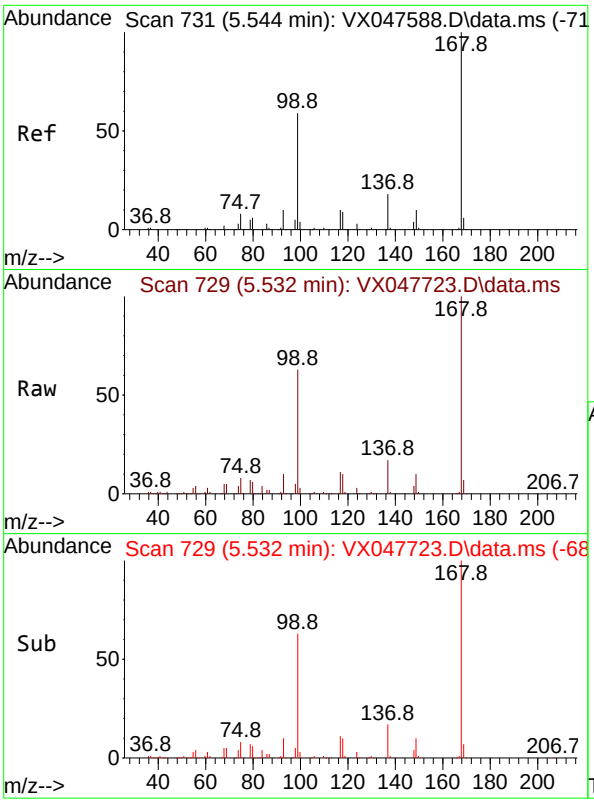
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047723.D
Acq On : 23 Sep 2025 11:15
Operator : JC/MD
Sample : VX0923WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Quant Time: Sep 24 01:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



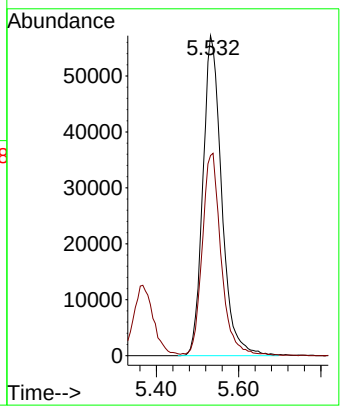


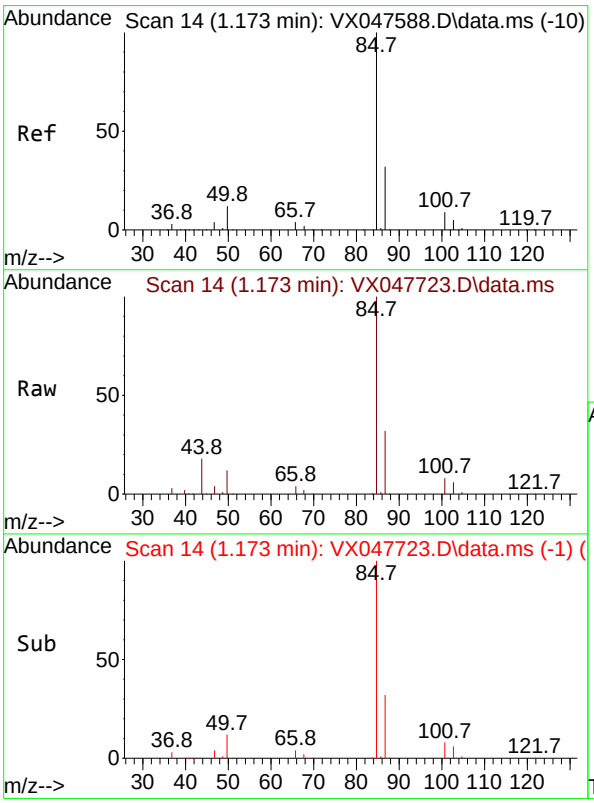
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:168 Resp: 181787

Ion	Ratio	Lower	Upper
168	100		
99	62.3	48.8	73.2

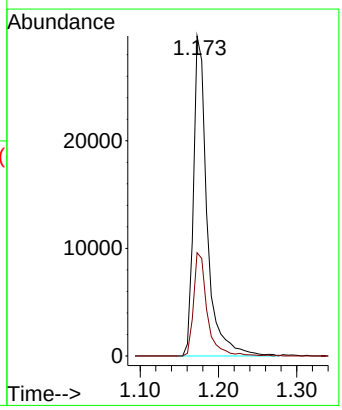


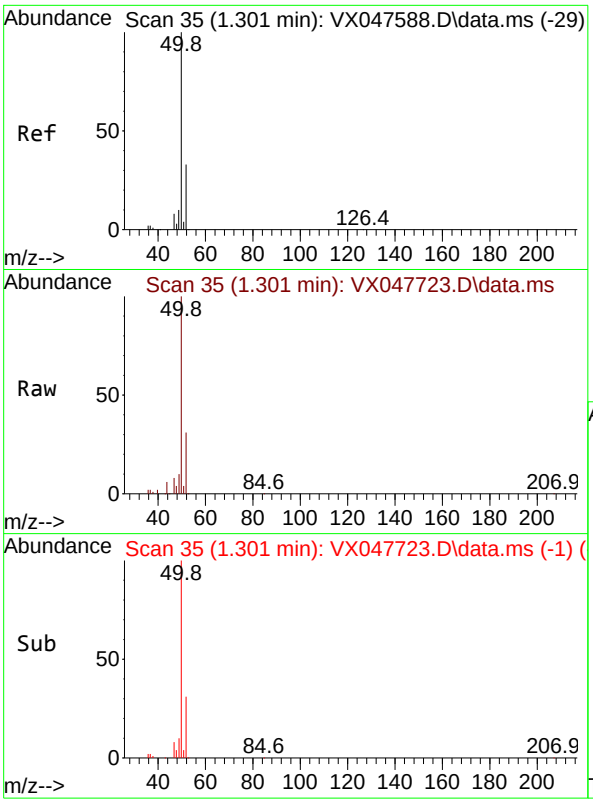


#2
Dichlorodifluoromethane
Concen: 19.207 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 85 Resp: 36156

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.8	47.3



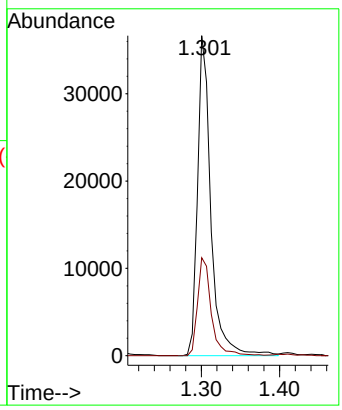


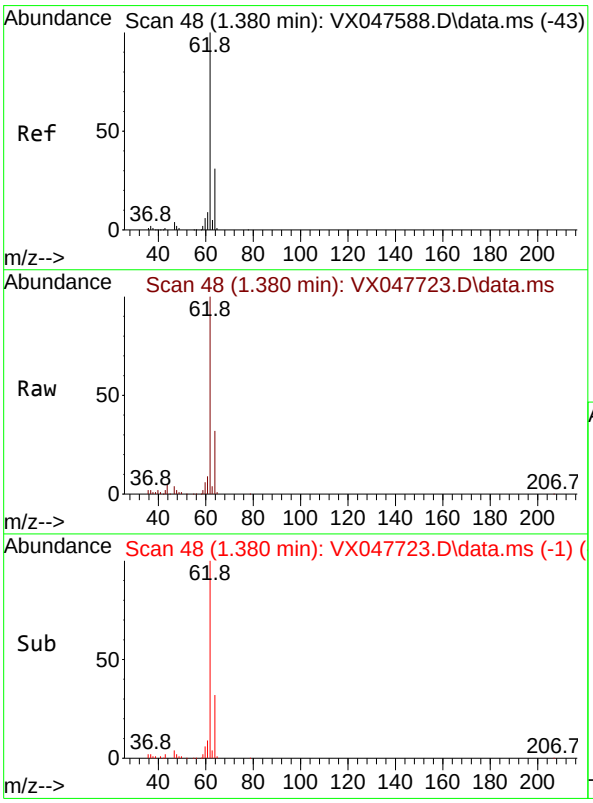
#3
Chloromethane
Concen: 17.560 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 50 Resp: 43445

Ion	Ratio	Lower	Upper
50	100		
52	30.6	26.1	39.1

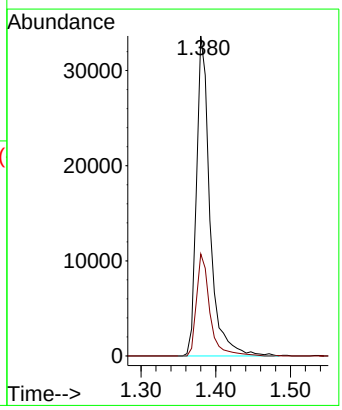


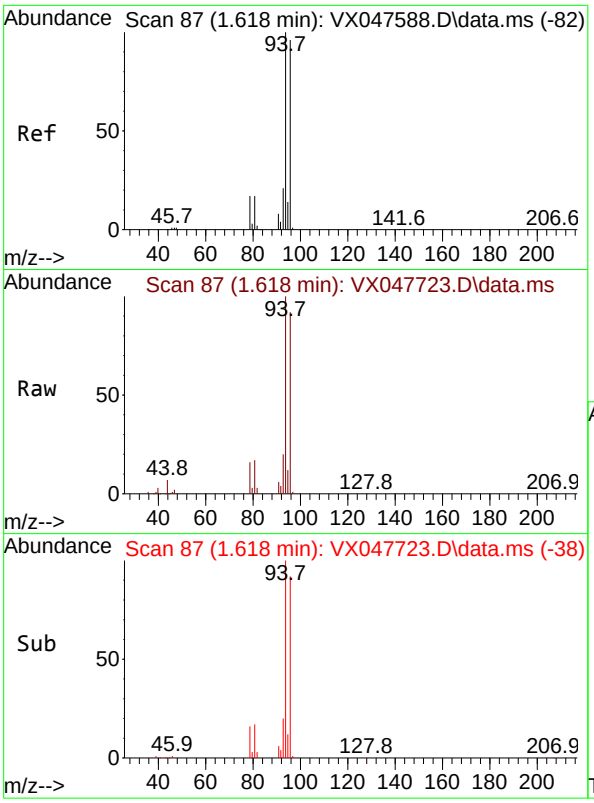


#4
Vinyl Chloride
Concen: 17.368 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 62 Resp: 42062

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.9	37.3



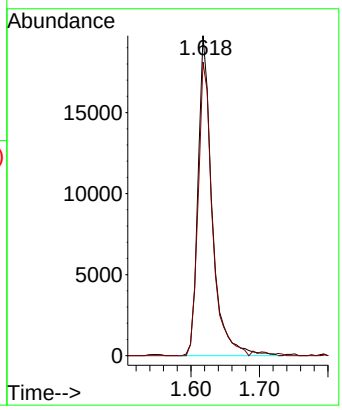


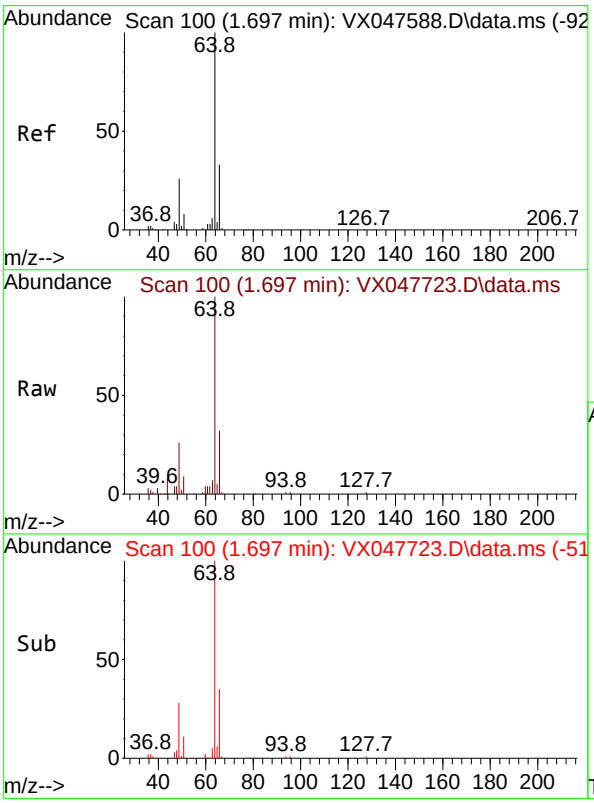
#5
Bromomethane
Concen: 18.520 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 94 Resp: 28441

Ion	Ratio	Lower	Upper
94	100		
96	91.8	76.6	115.0

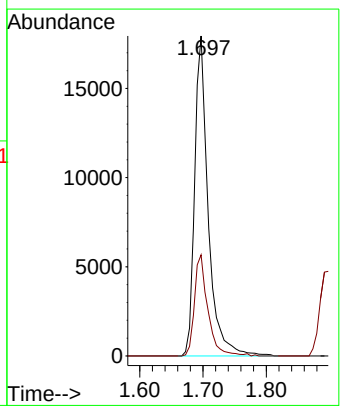


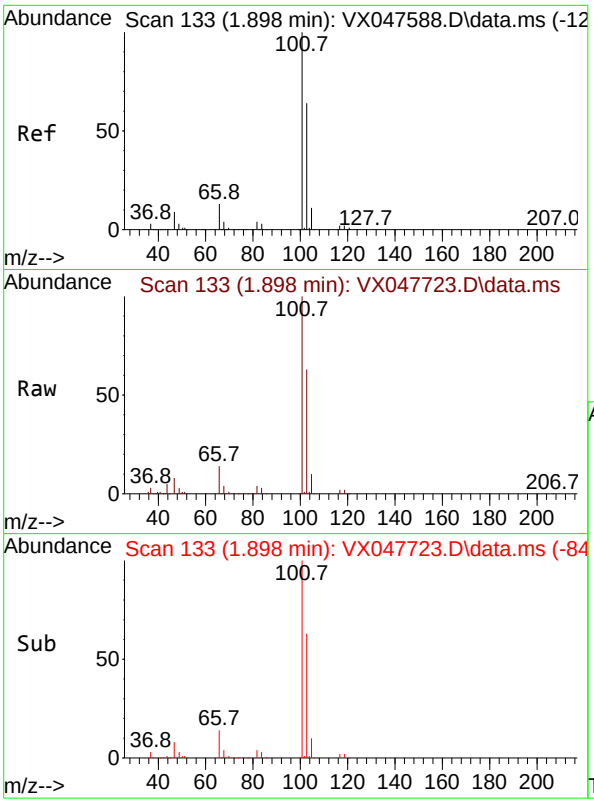


#6
Chloroethane
Concen: 16.528 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 64 Resp: 26753

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.1	39.1



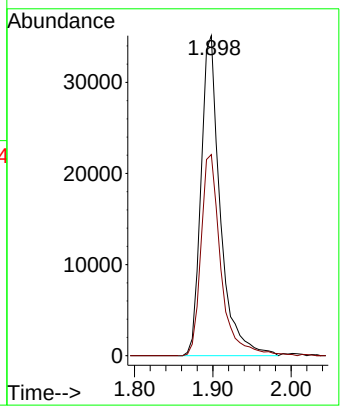


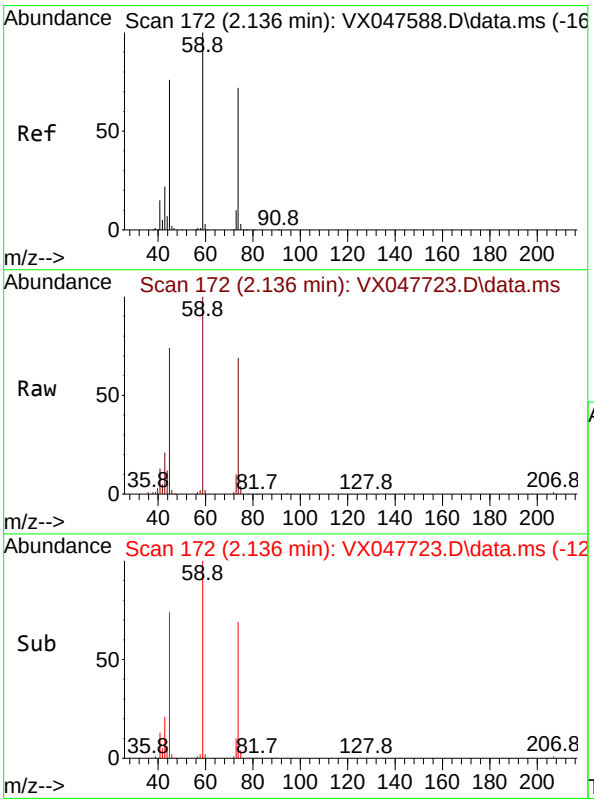
#7
Trichlorofluoromethane
Concen: 16.642 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:101 Resp: 59843

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.4	77.2

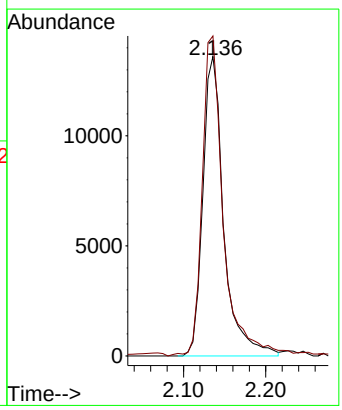


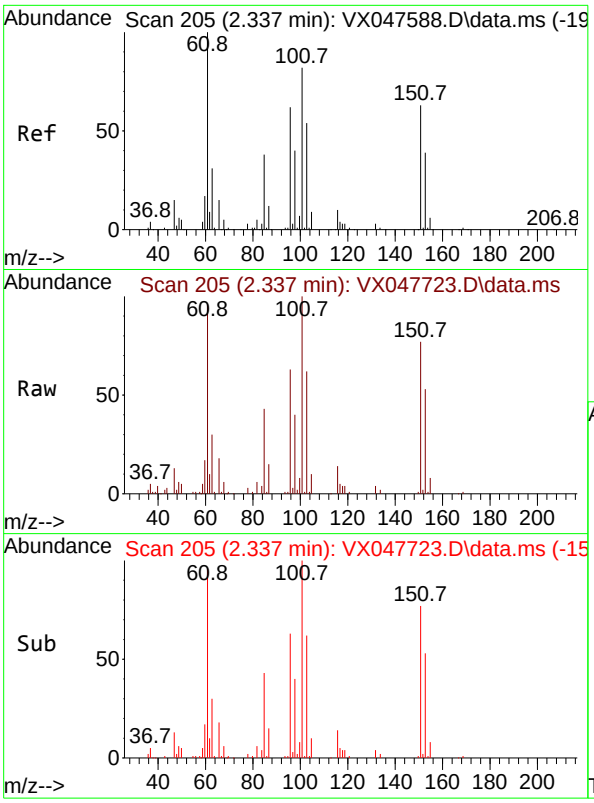


#8
Diethyl Ether
Concen: 16.330 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 74 Resp: 24021

Ion	Ratio	Lower	Upper
74	100		
45	108.1	52.3	156.8



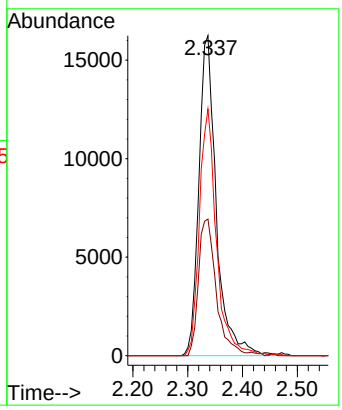


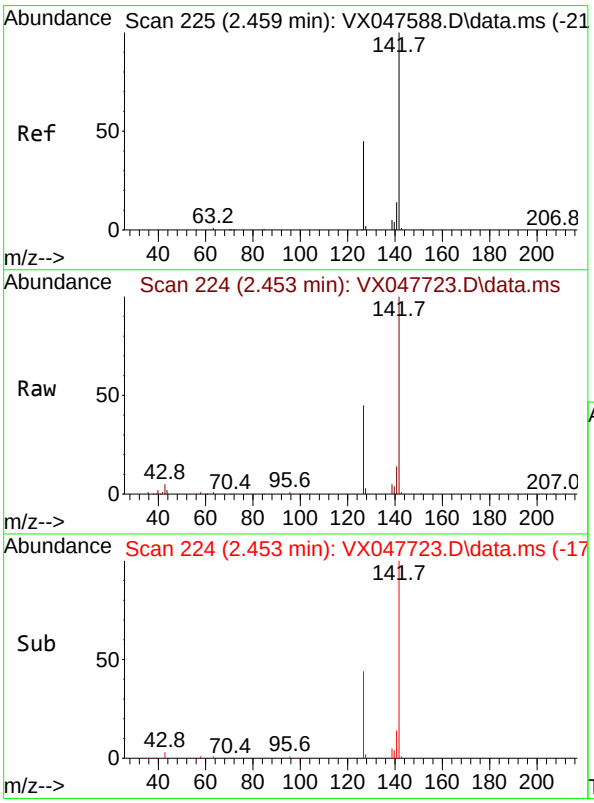
#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.109 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:101 Resp: 35974

Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	75.1	59.4	89.0

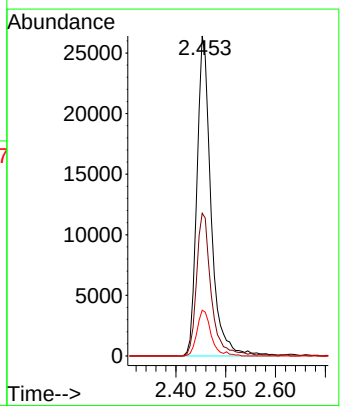


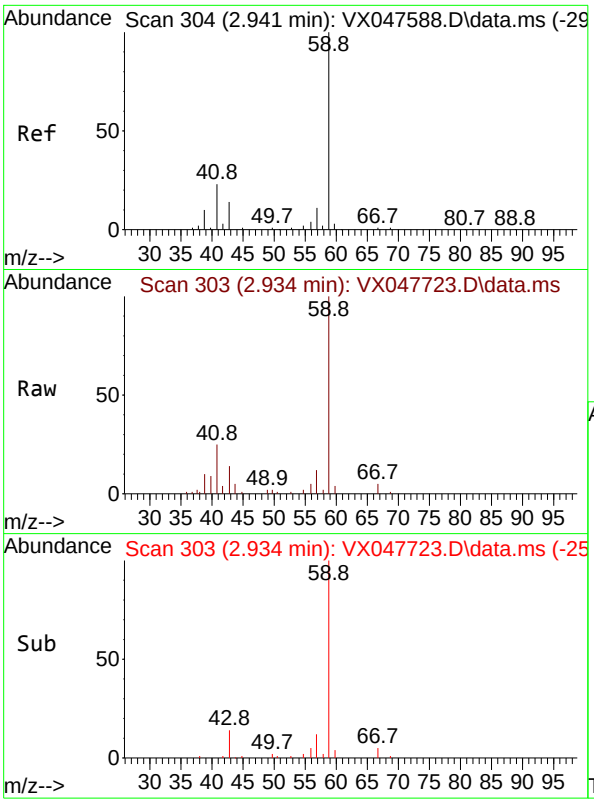


#10
Methyl Iodide
Concen: 15.841 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:142 Resp: 51945

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.2	55.8
141	14.3	11.4	17.0



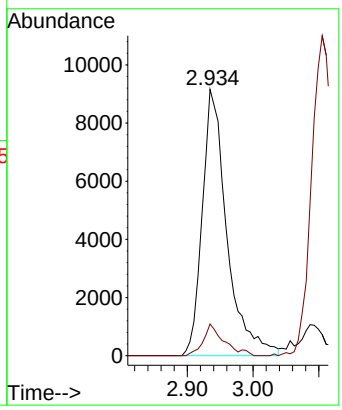


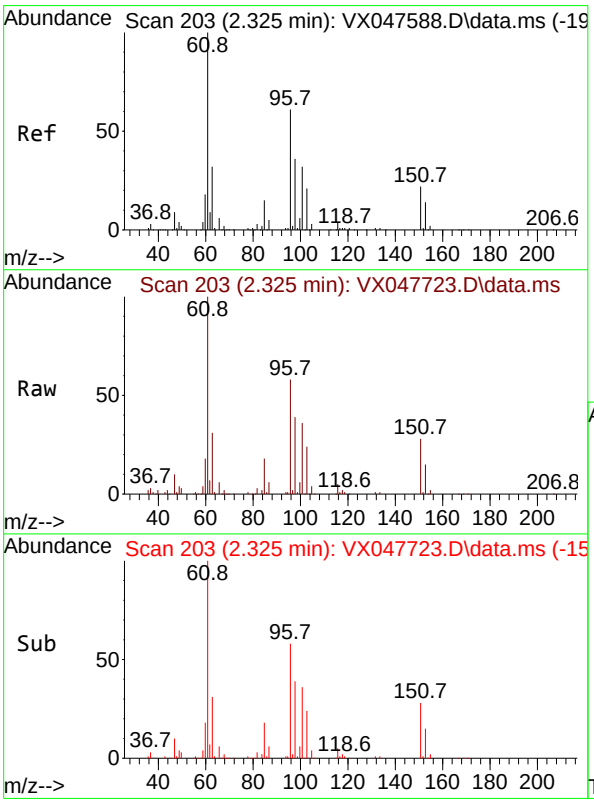
#11
Tert butyl alcohol
Concen: 74.010 ug/l
RT: 2.934 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 59 Resp: 23851

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5

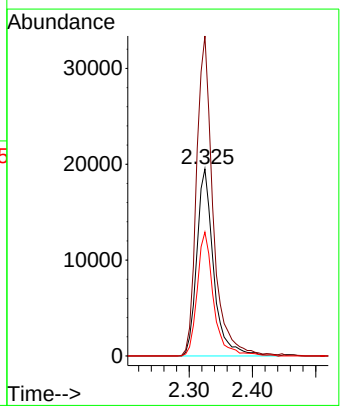


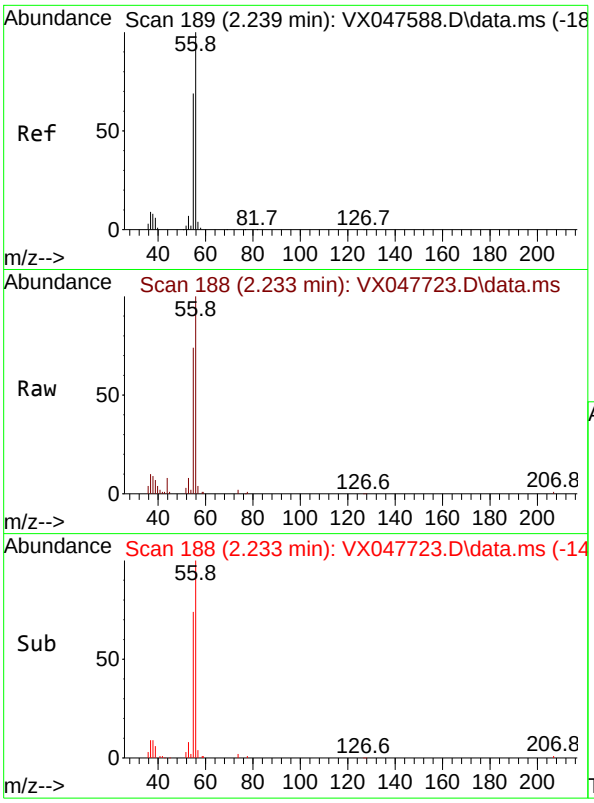


#12
1,1-Dichloroethene
Concen: 16.737 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 96 Resp: 36148

Ion	Ratio	Lower	Upper
96	100		
61	171.1	131.0	196.6
98	66.2	47.7	71.5



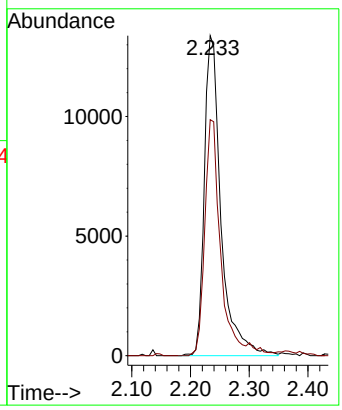


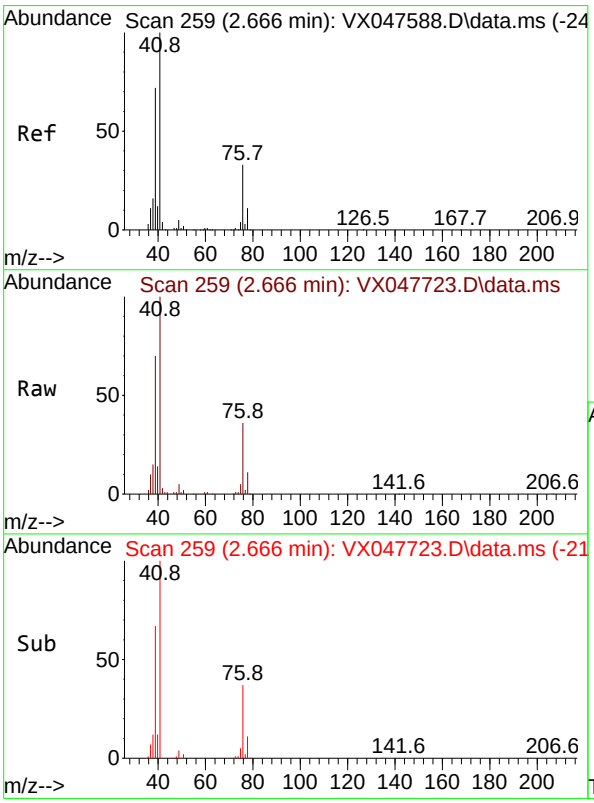
#13
Acrolein
Concen: 88.603 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 56 Resp: 26313

Ion	Ratio	Lower	Upper
56	100		
55	71.4	57.2	85.8

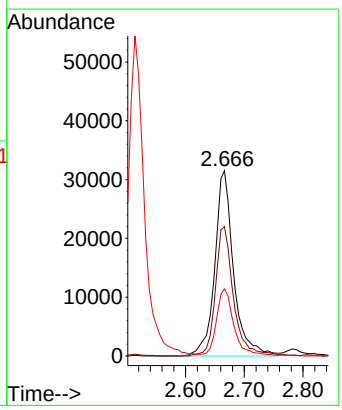


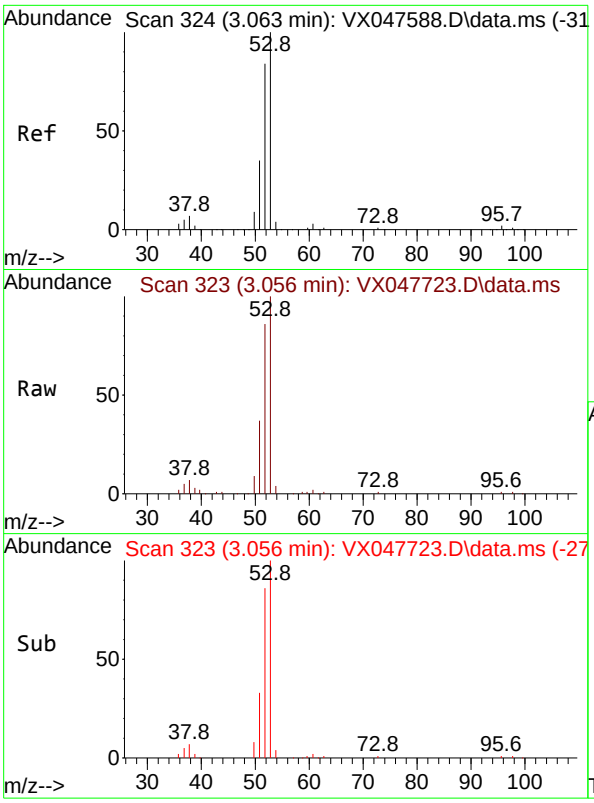


#14
Allyl chloride
Concen: 15.738 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 70142

Ion	Ratio	Lower	Upper
41	100		
39	67.1	54.7	82.1
76	33.8	25.7	38.5



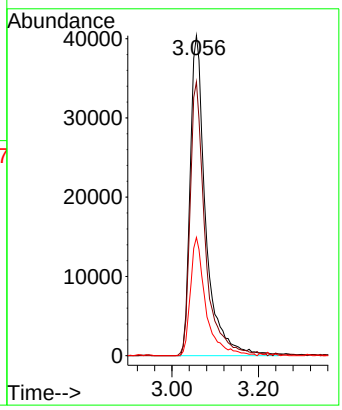


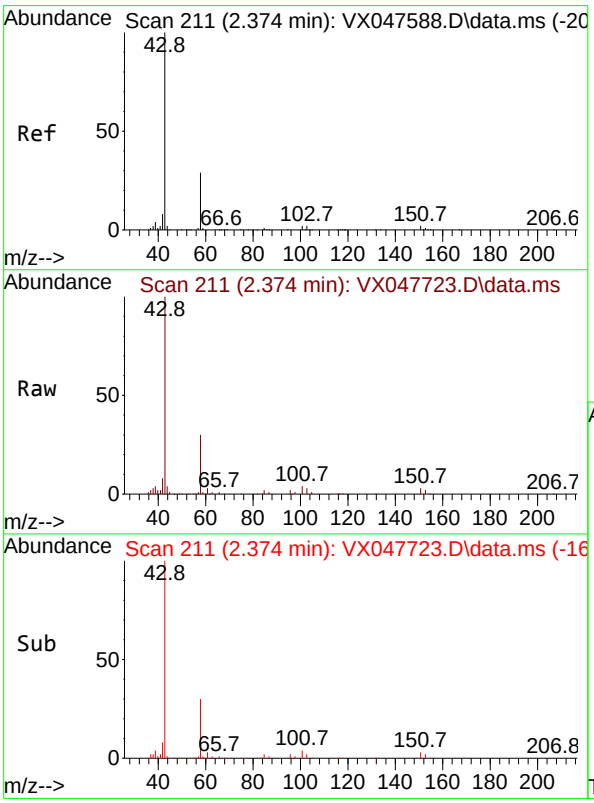
#15
Acrylonitrile
Concen: 84.401 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 53 Resp: 100750

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.7	29.5	44.3

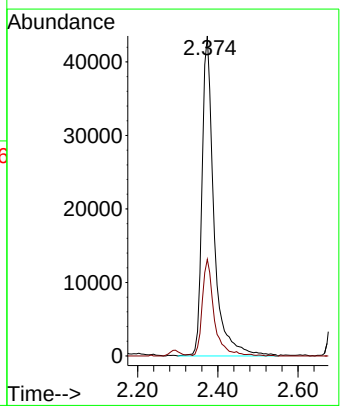


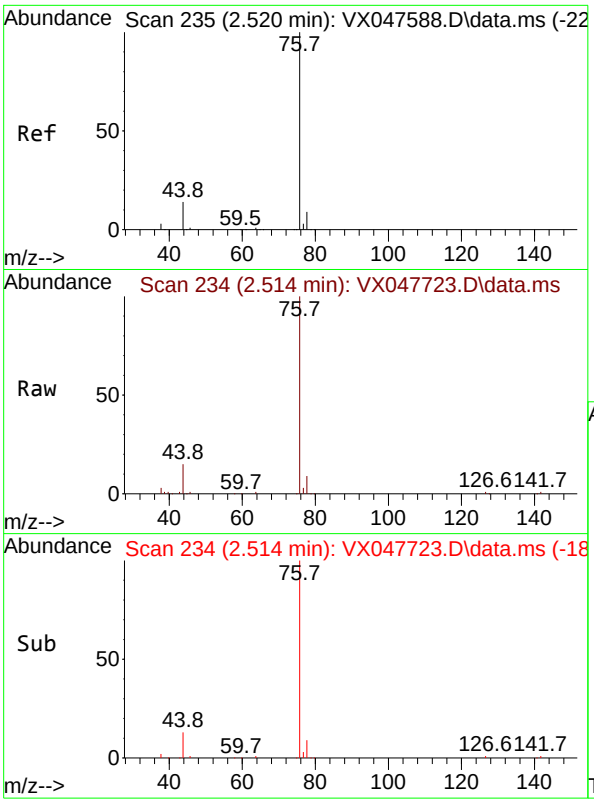


#16
Acetone
Concen: 71.706 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 90216

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.4	35.0



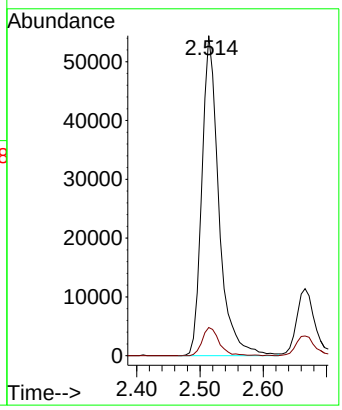


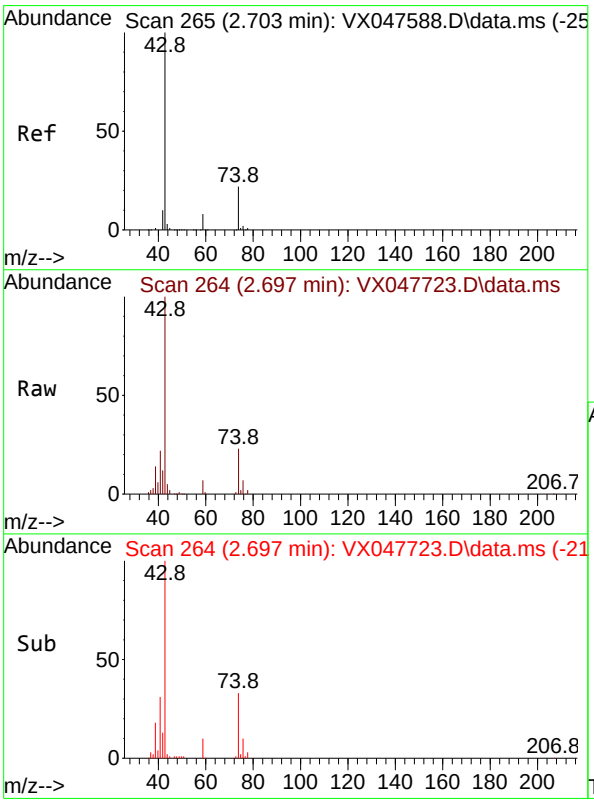
#17
Carbon Disulfide
Concen: 17.244 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 76 Resp: 101957

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2

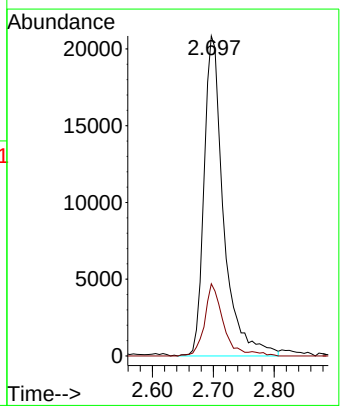


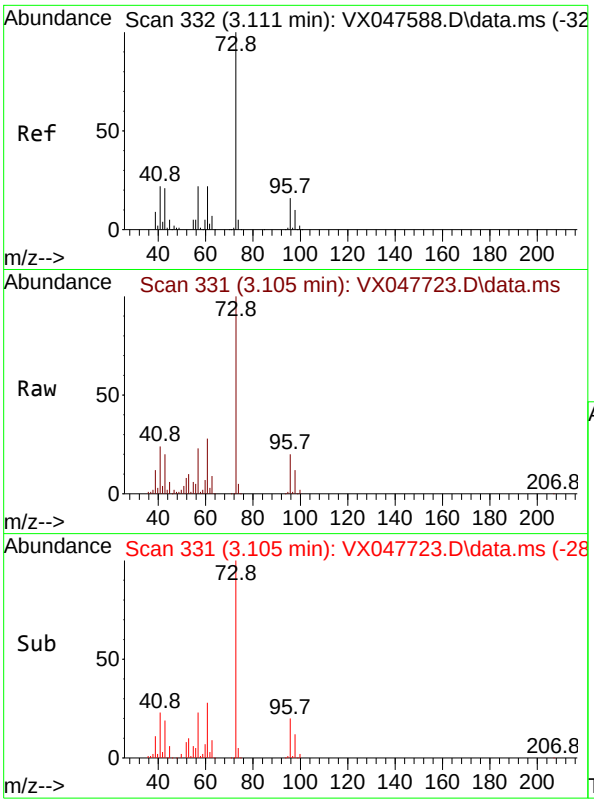


#18
Methyl Acetate
Concen: 16.621 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 46539

Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.4	26.2



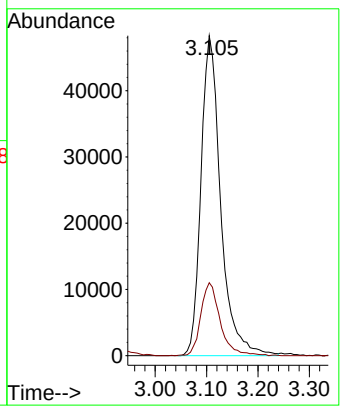


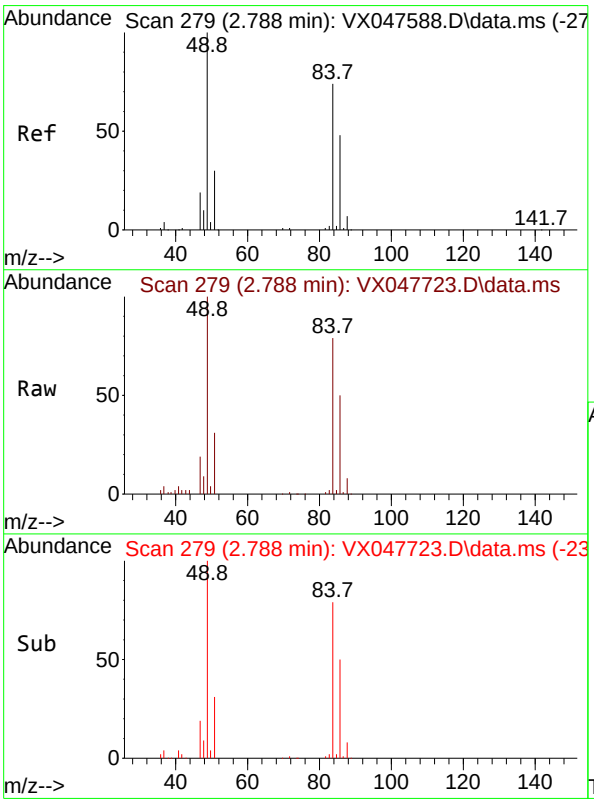
#19
Methyl tert-butyl Ether
Concen: 16.310 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 73 Resp: 128594

Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.4	26.2

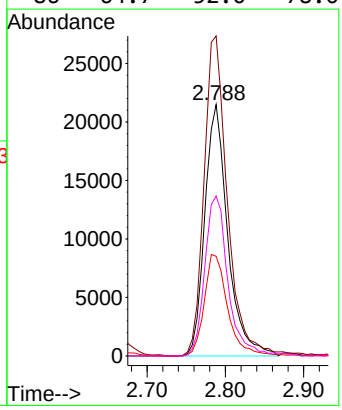


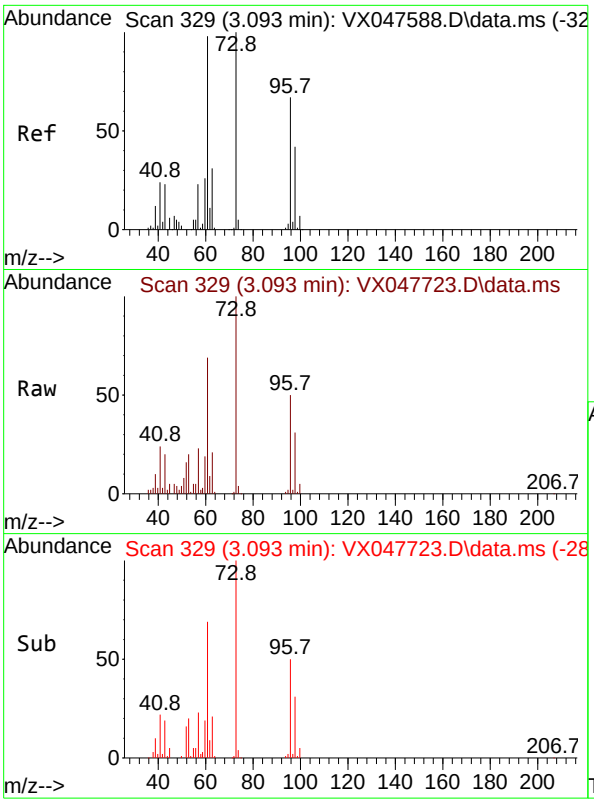


#20
Methylene Chloride
Concen: 16.413 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 84 Resp: 43710

Ion	Ratio	Lower	Upper
84	100		
49	127.3	108.6	162.8
51	39.7	32.6	48.8
86	64.7	52.0	78.0



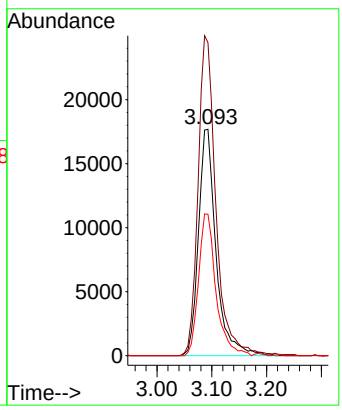


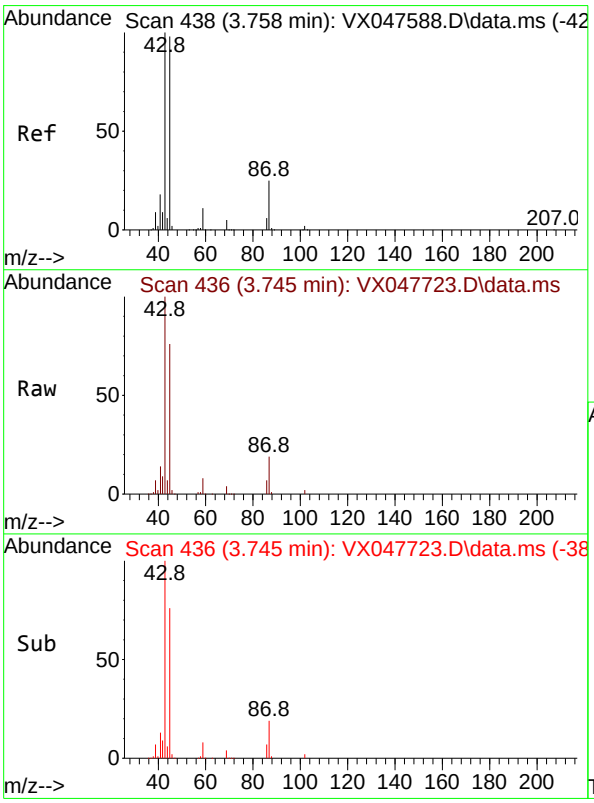
#21
trans-1,2-Dichloroethene
Concen: 16.950 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 96 Resp: 39414

Ion	Ratio	Lower	Upper
96	100		
61	138.3	116.2	174.2
98	62.5	49.3	73.9

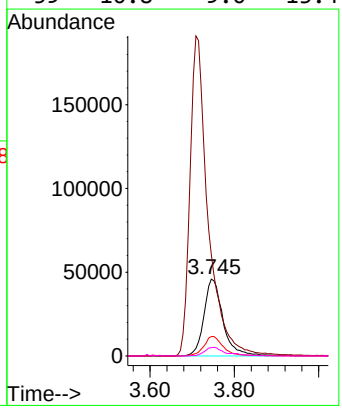


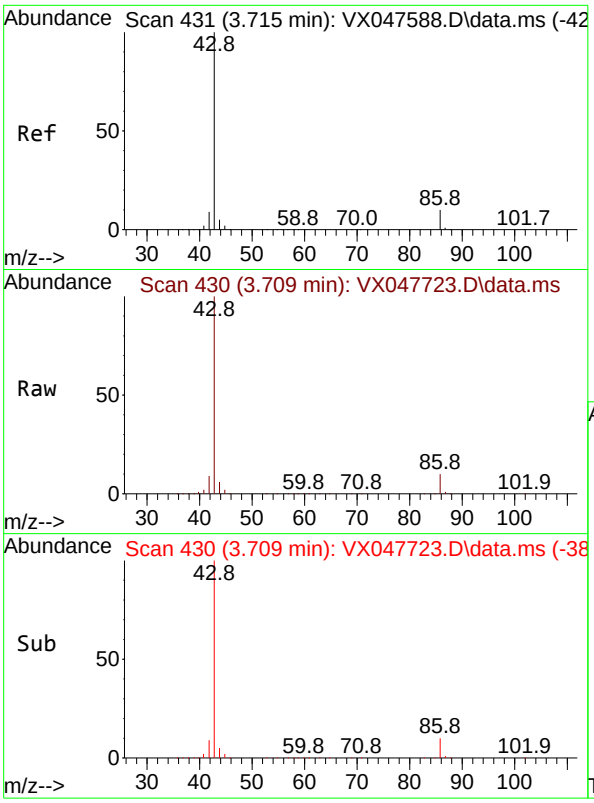


#22
Diisopropyl ether
Concen: 16.712 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 45 Resp: 144354

Ion	Ratio	Lower	Upper
45	100		
43	130.4	81.0	121.4#
87	25.2	20.3	30.5
59	10.8	9.0	13.4



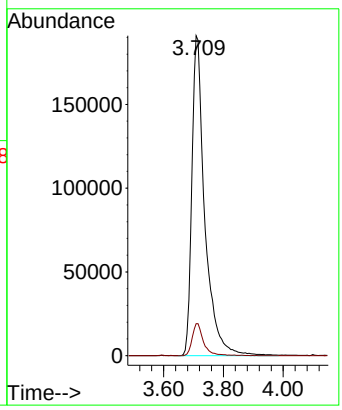


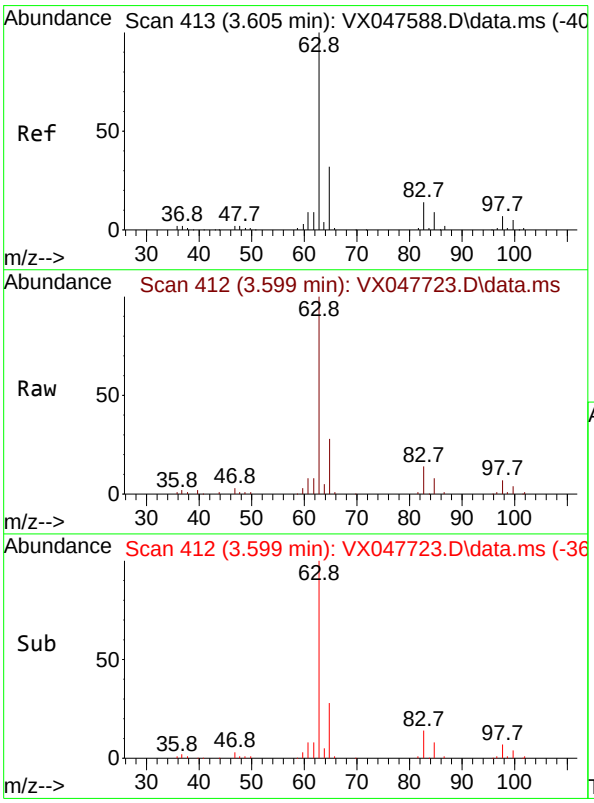
#23
Vinyl Acetate
Concen: 83.195 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 575126

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

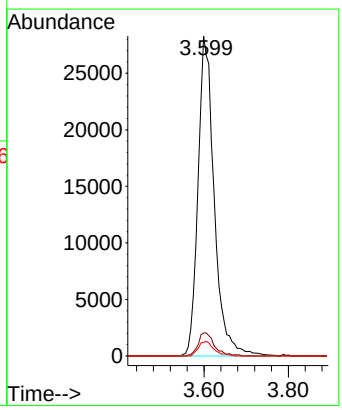


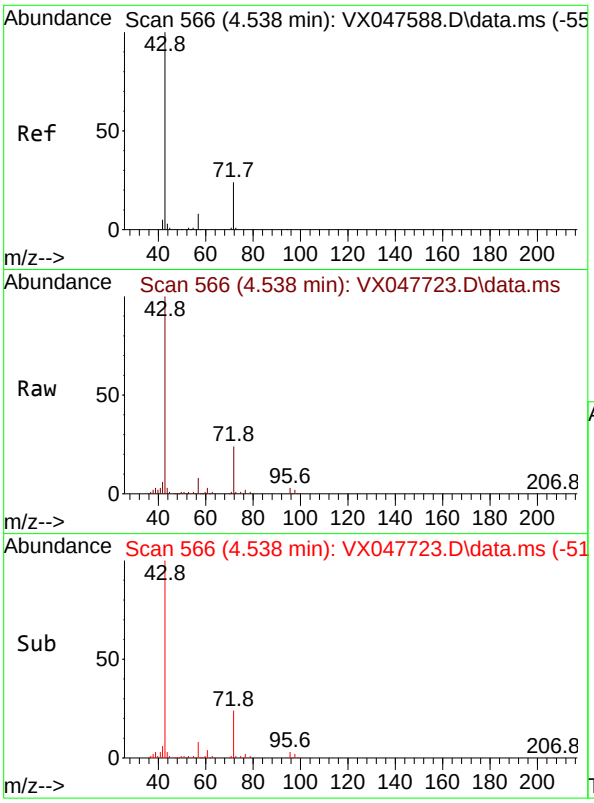


#24
1,1-Dichloroethane
Concen: 16.495 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 75728

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.8	11.2
100	4.2	2.3	6.9



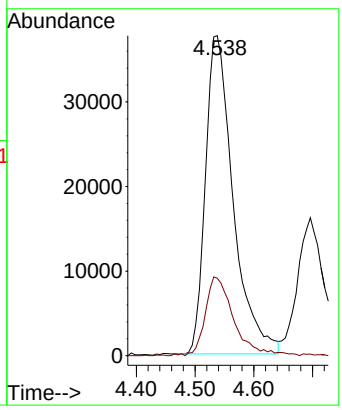


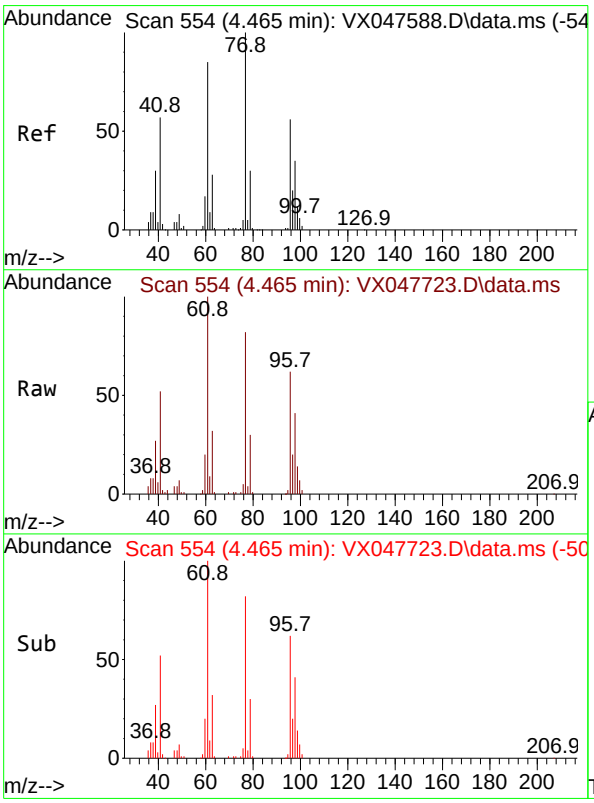
#25
2-Butanone
Concen: 78.705 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 123517

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.1	30.1

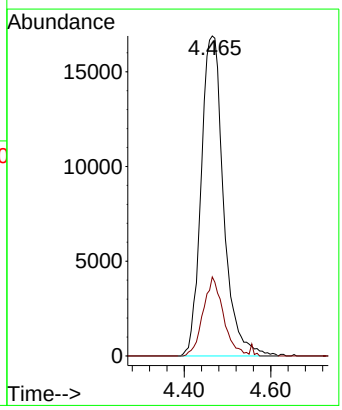


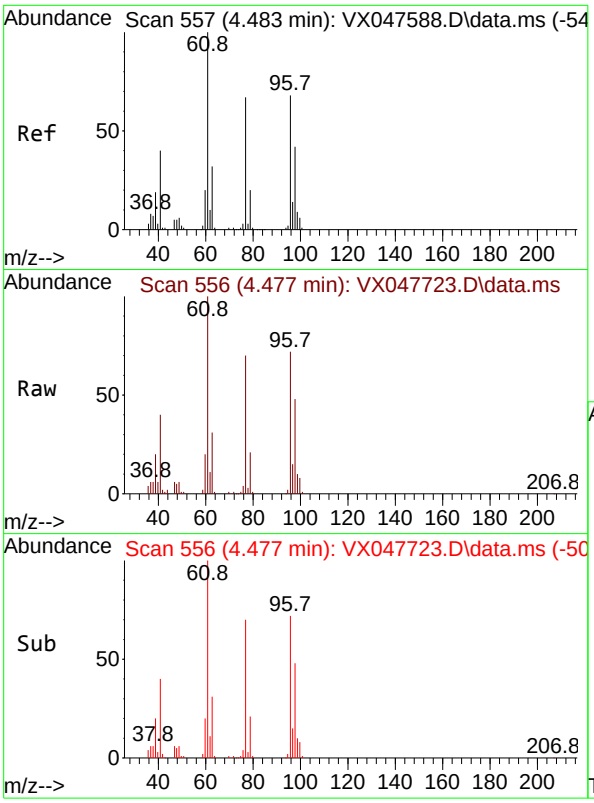


#26
2,2-Dichloropropane
Concen: 15.910 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 77 Resp: 60715

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7



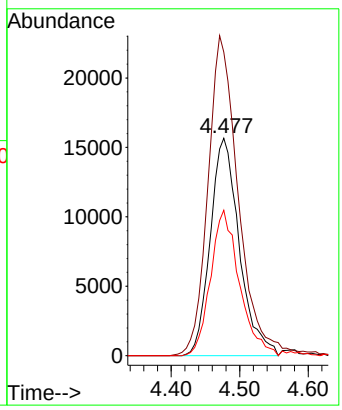


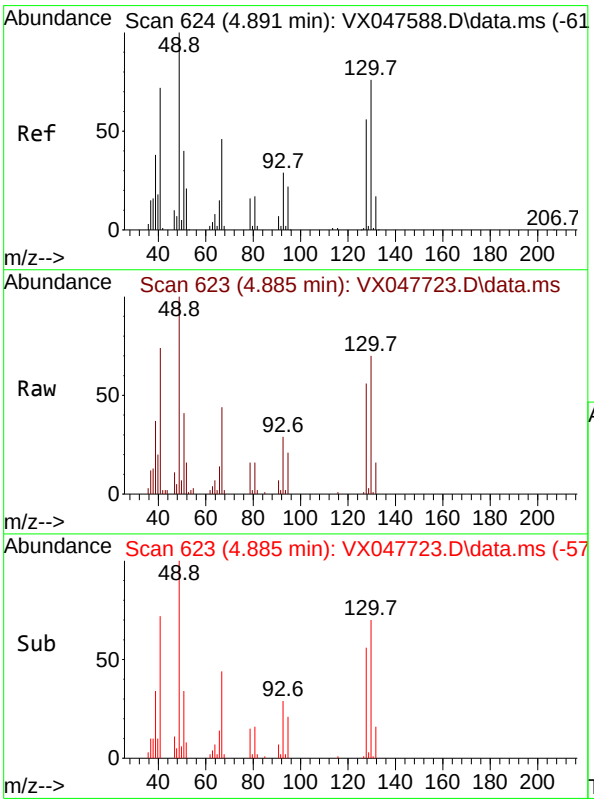
#27
cis-1,2-Dichloroethene
Concen: 16.177 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 96 Resp: 46069

Ion	Ratio	Lower	Upper
96	100		
61	155.1	0.0	303.2
98	66.4	0.0	127.8

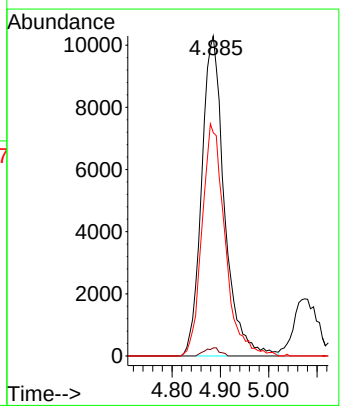


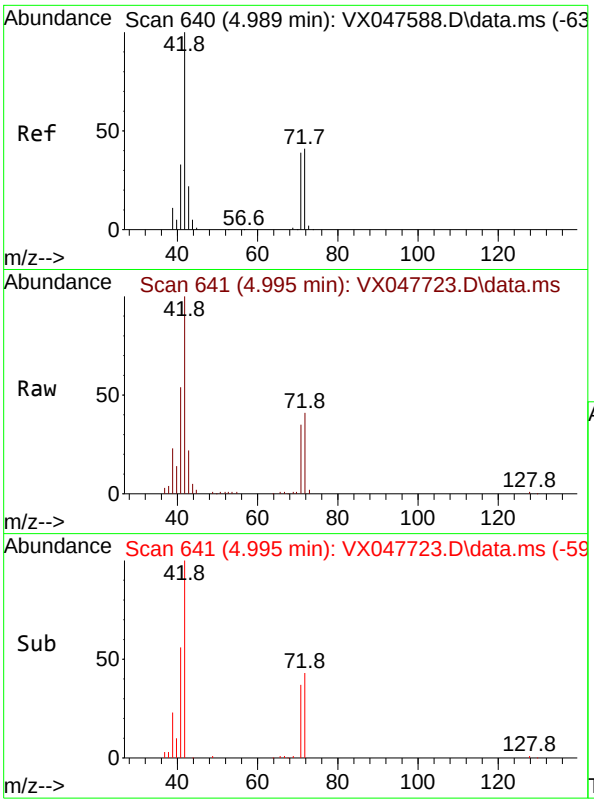


#28
Bromochloromethane
Concen: 16.807 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 49 Resp: 33685

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	73.4	57.8	86.8



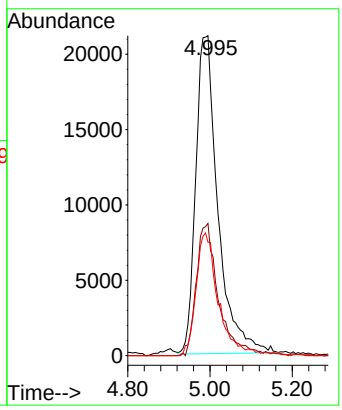


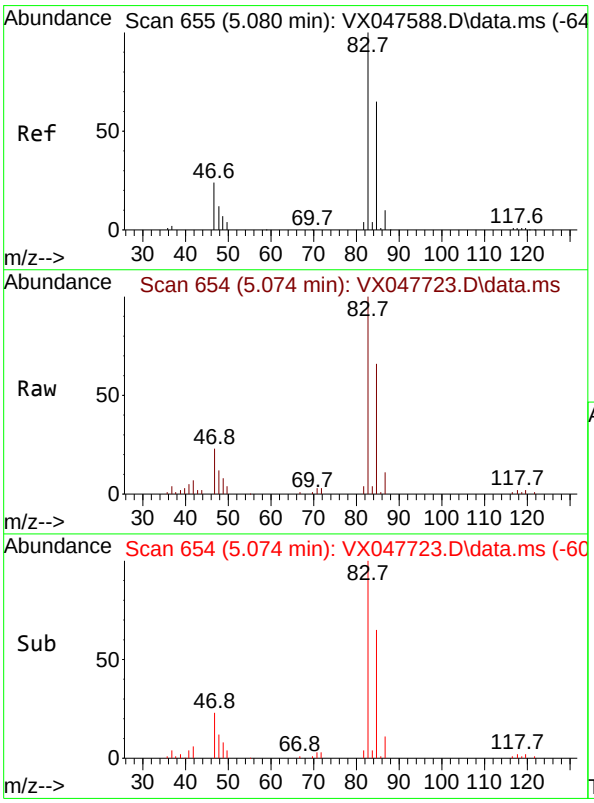
#29
Tetrahydrofuran
Concen: 83.826 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 42 Resp: 79140

Ion	Ratio	Lower	Upper
42	100		
72	41.4	34.2	51.2
71	38.8	31.9	47.9

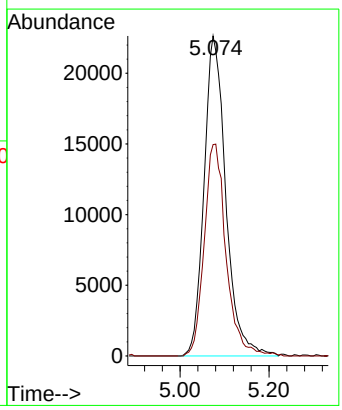


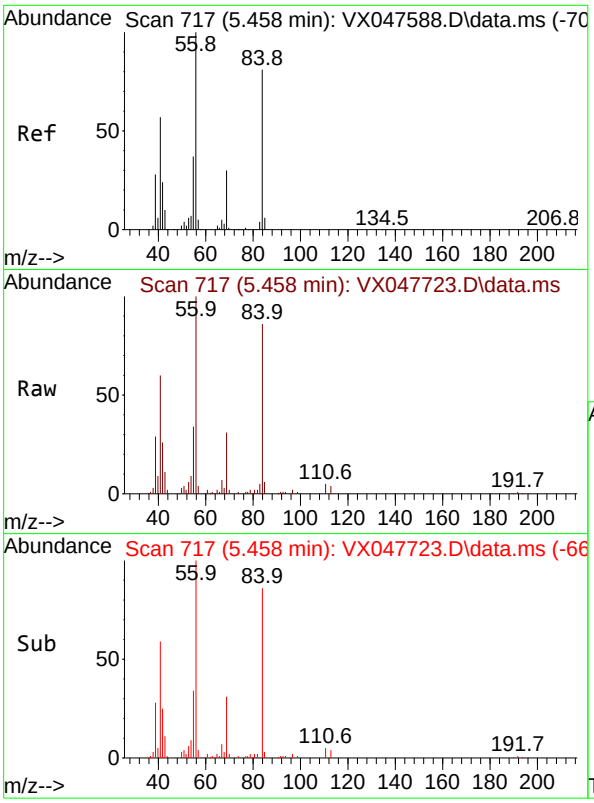


#30
Chloroform
Concen: 16.618 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 83 Resp: 77095

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.8	77.6



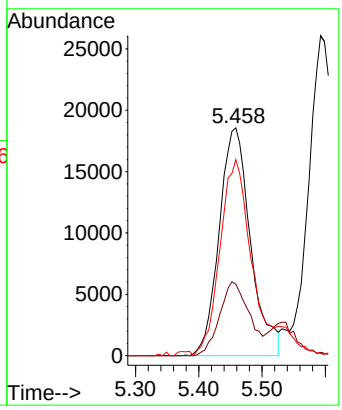


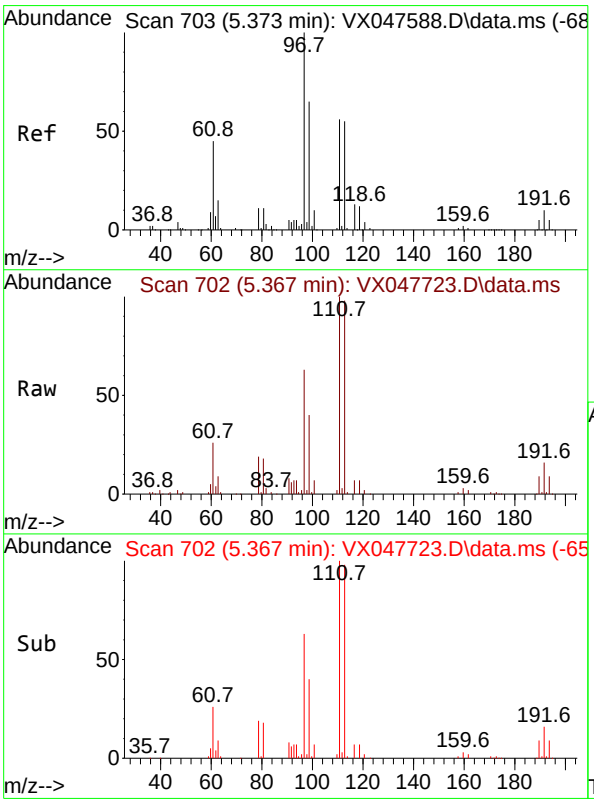
#31
Cyclohexane
Concen: 16.688 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 56 Resp: 63808

Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.8	35.8
84	84.5	64.6	97.0

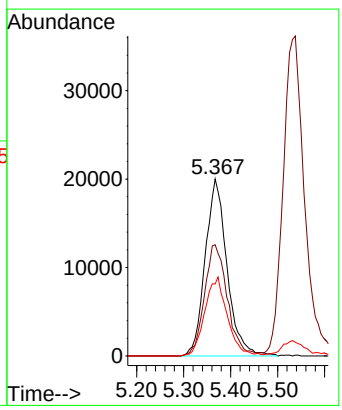


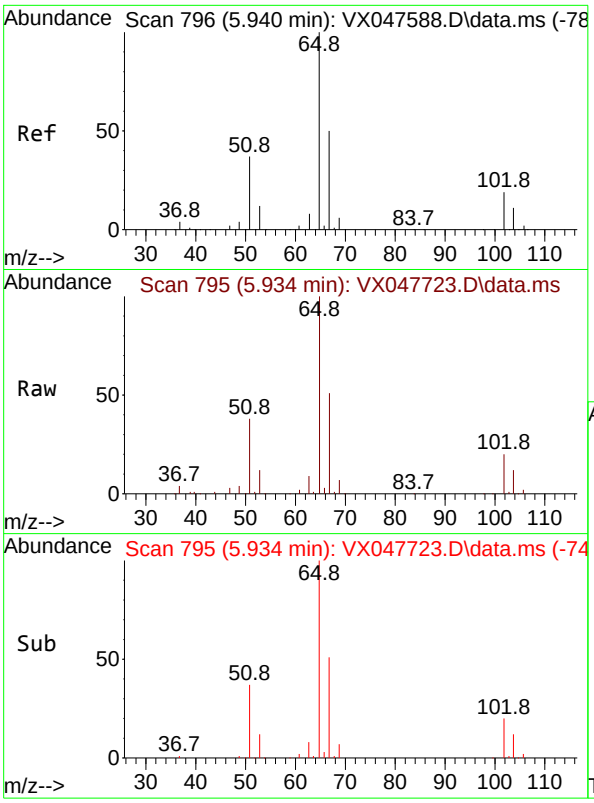


#32
1,1,1-Trichloroethane
Concen: 16.421 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 97 Resp: 64618

Ion	Ratio	Lower	Upper
97	100		
99	65.8	50.6	76.0
61	45.9	35.8	53.8



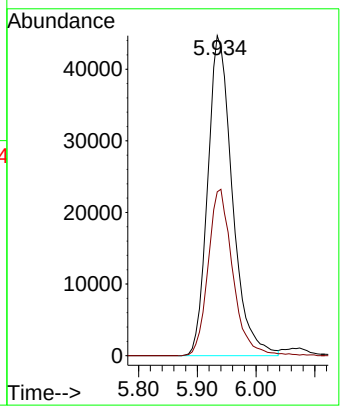


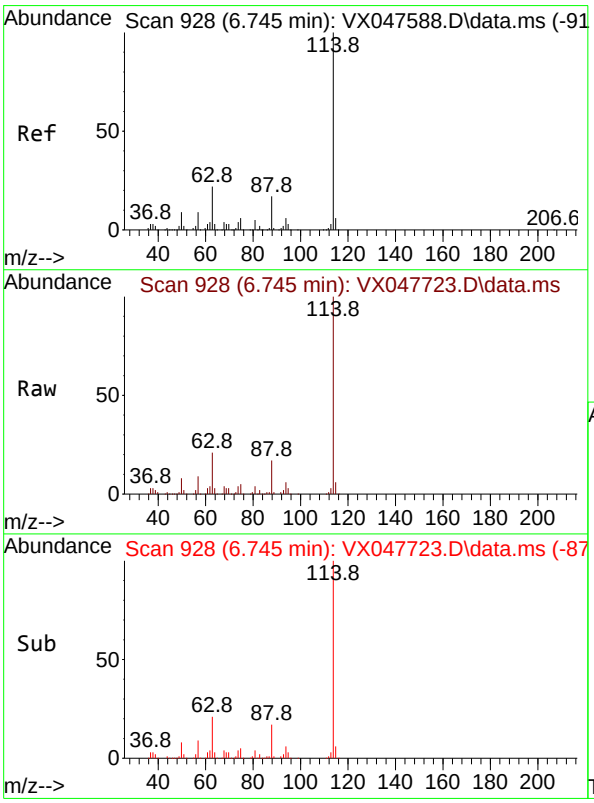
#33
1,2-Dichloroethane-d4
Concen: 44.983 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 65 Resp: 130163

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0

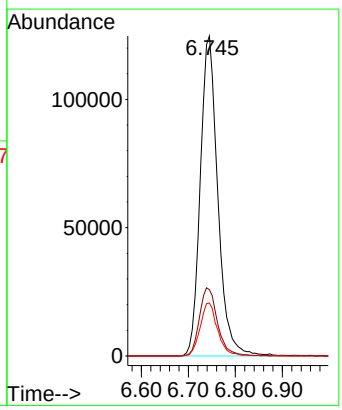


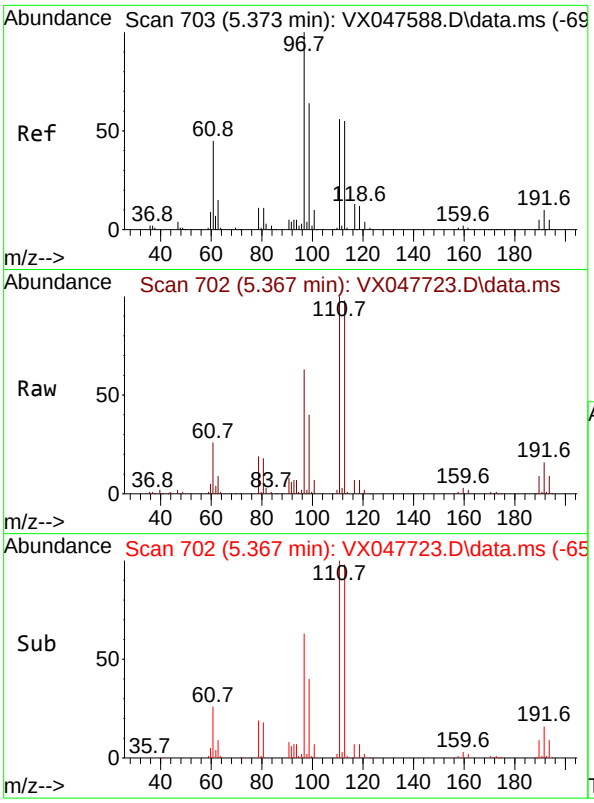


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:114 Resp: 322664

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	16.5	0.0	34.2



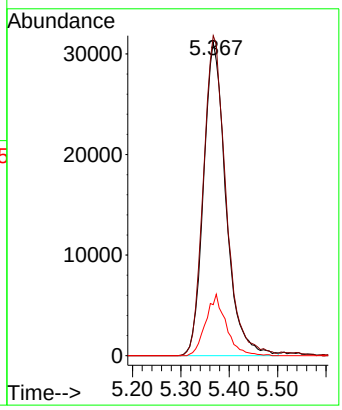


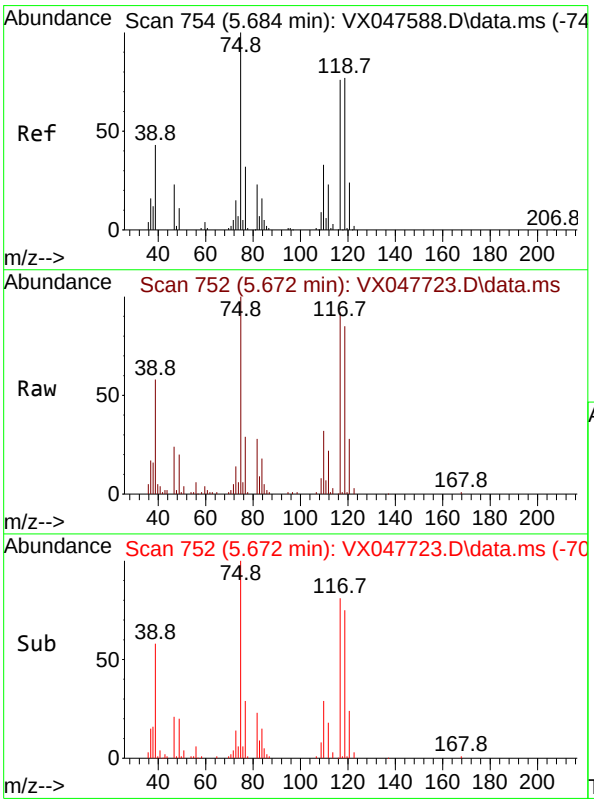
#35
Dibromofluoromethane
Concen: 46.149 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:113 Resp: 99865

Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.9	121.3
192	18.0	14.2	21.4

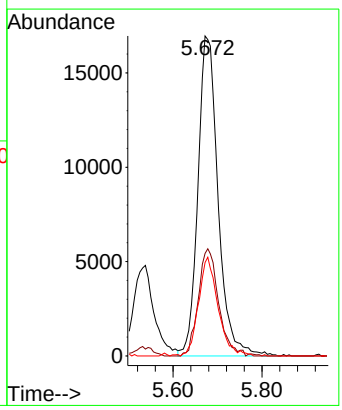


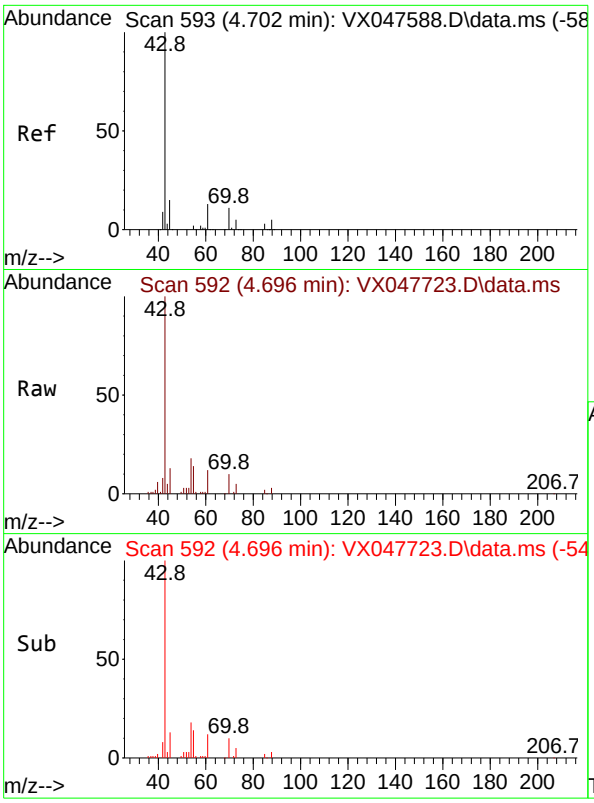


#36
1,1-Dichloropropene
Concen: 16.949 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 53594

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.7	50.1
77	29.8	24.3	36.5



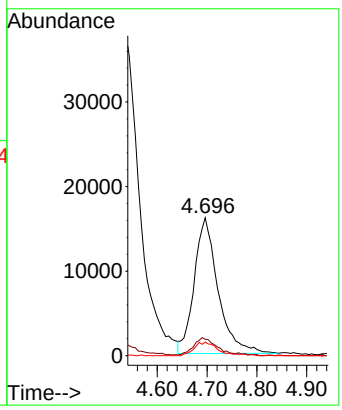


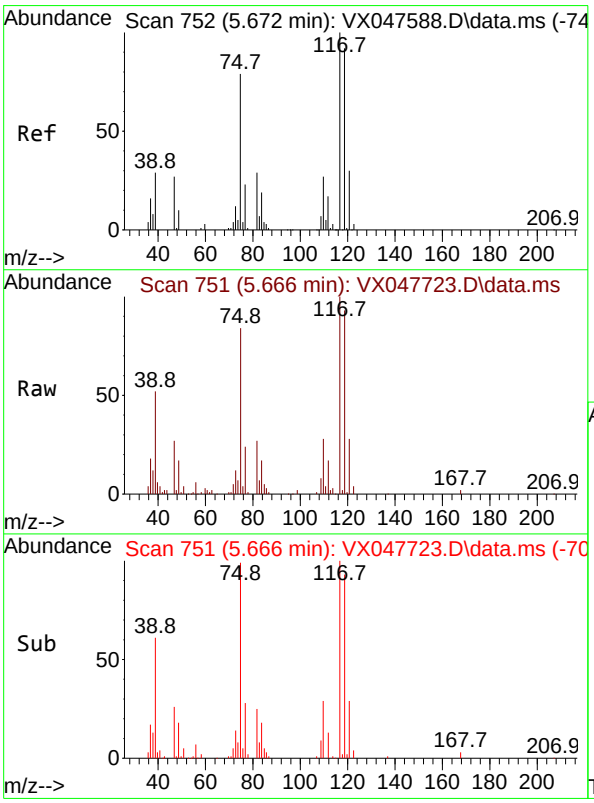
#37
Ethyl Acetate
Concen: 15.743 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 53300

Ion	Ratio	Lower	Upper
43	100		
61	11.6	9.8	14.8
70	10.0	7.9	11.9

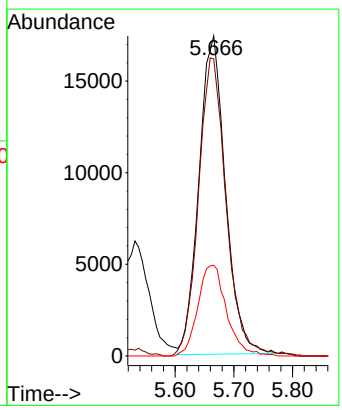


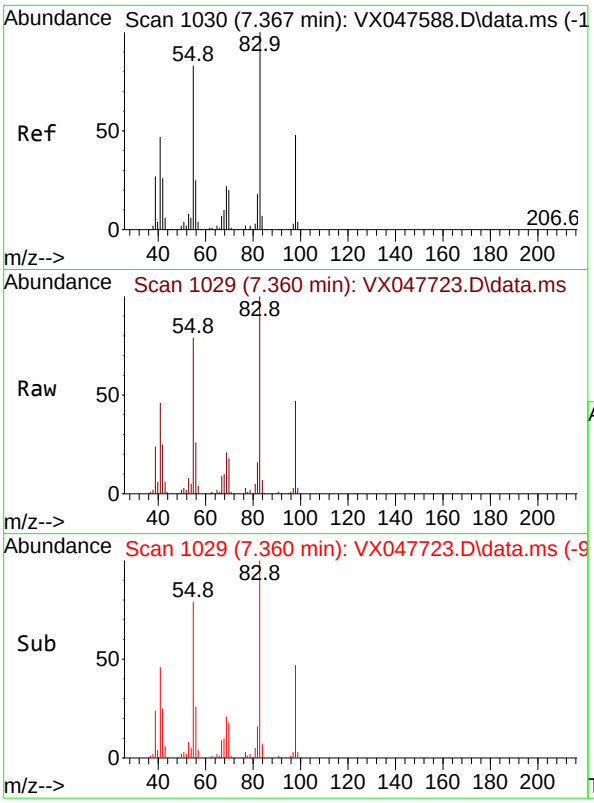


#38
Carbon Tetrachloride
Concen: 15.922 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 54702

Ion	Ratio	Lower	Upper
117	100		
119	92.9	73.4	110.2
121	28.6	23.8	35.6



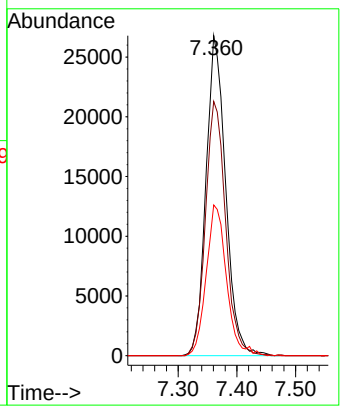


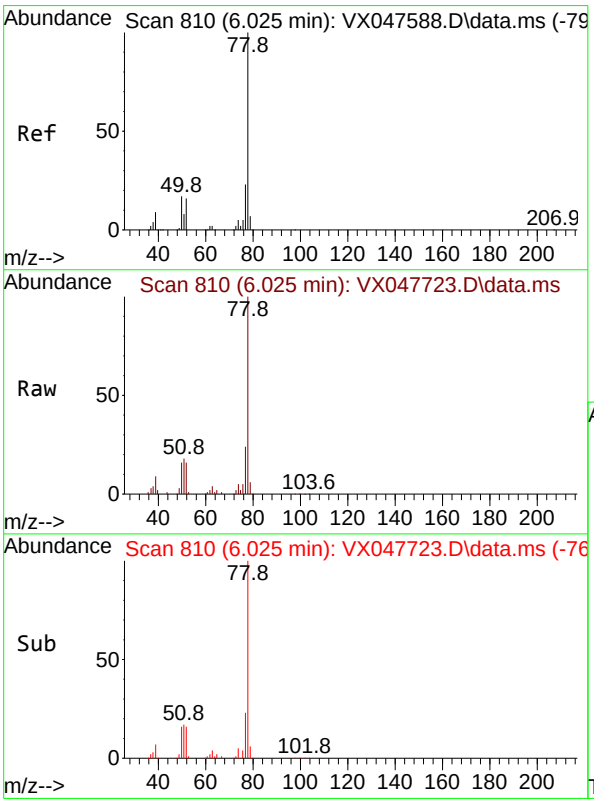
#39
Methylcyclohexane
Concen: 17.344 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 83 Resp: 62254

Ion	Ratio	Lower	Upper
83	100		
55	79.4	66.4	99.6
98	47.1	38.1	57.1

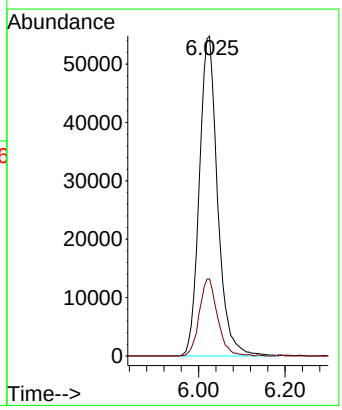


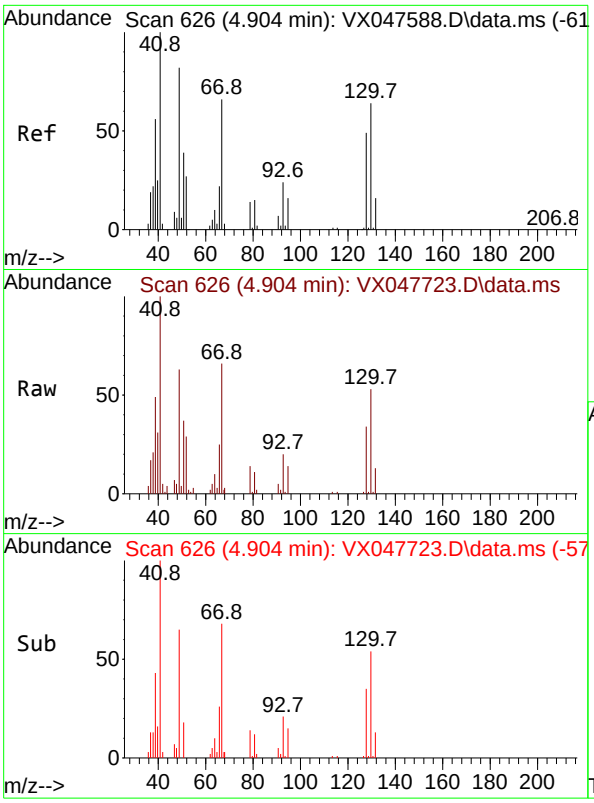


#40
Benzene
Concen: 16.697 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 78 Resp: 160358

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2



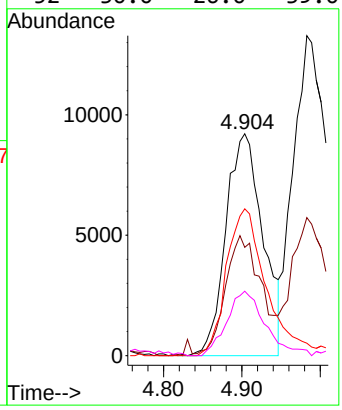


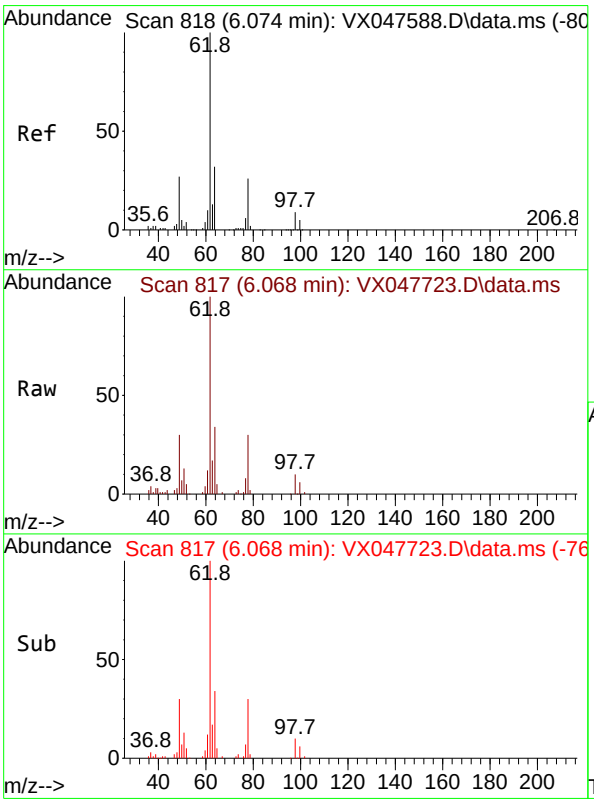
#41
Methacrylonitrile
Concen: 17.365 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 41 Resp: 30351

Ion	Ratio	Lower	Upper
41	100		
39	50.0	43.3	64.9
67	70.6	58.6	87.8
52	30.0	26.0	39.0

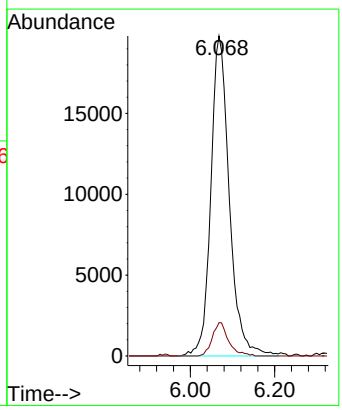


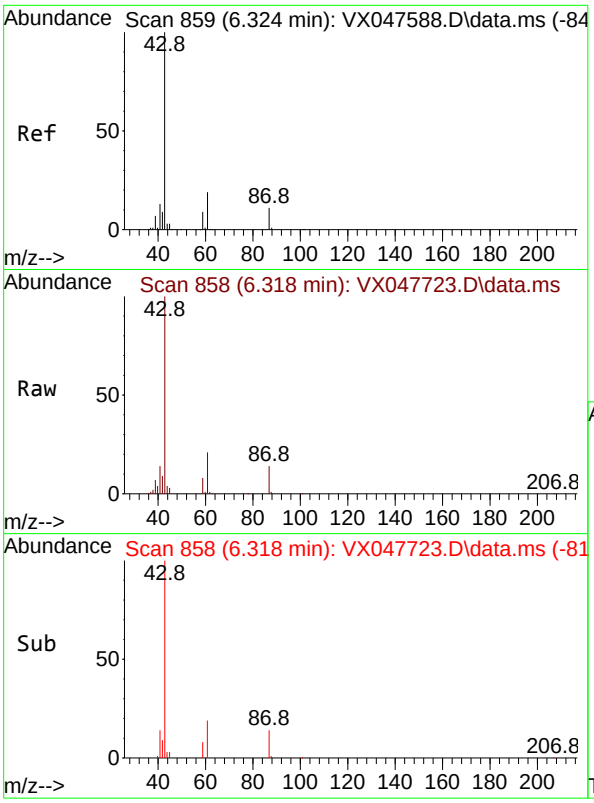


#42
1,2-Dichloroethane
Concen: 16.455 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 62 Resp: 60128

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0



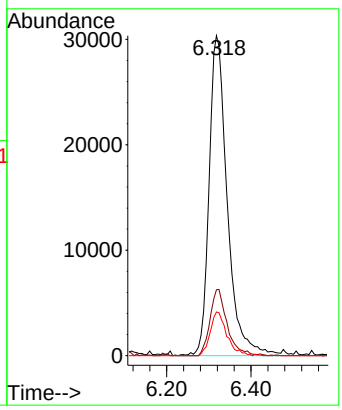


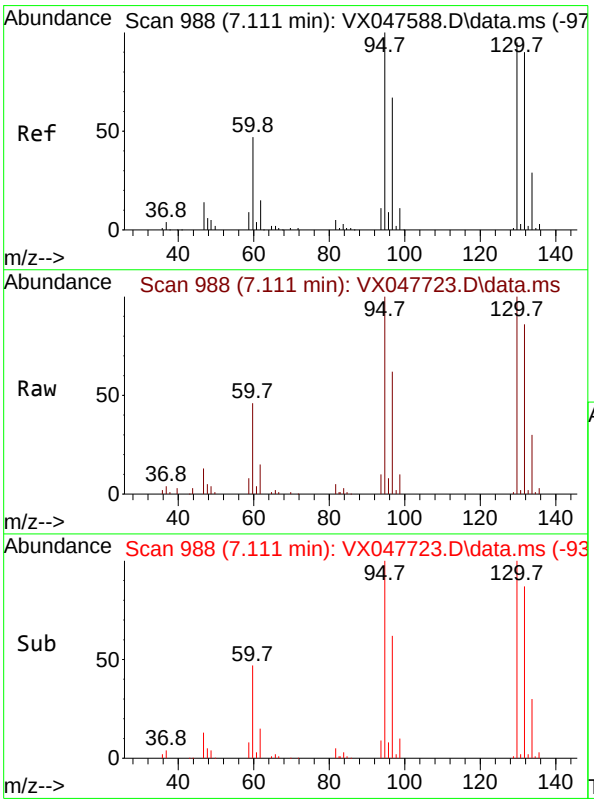
#43
Isopropyl Acetate
Concen: 16.367 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 90880

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.5	9.6	14.4

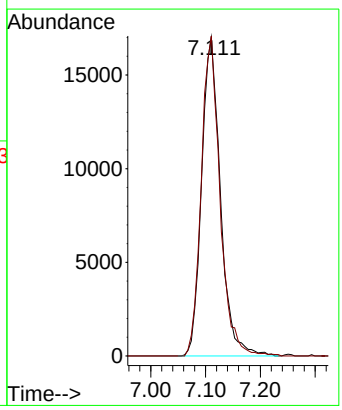


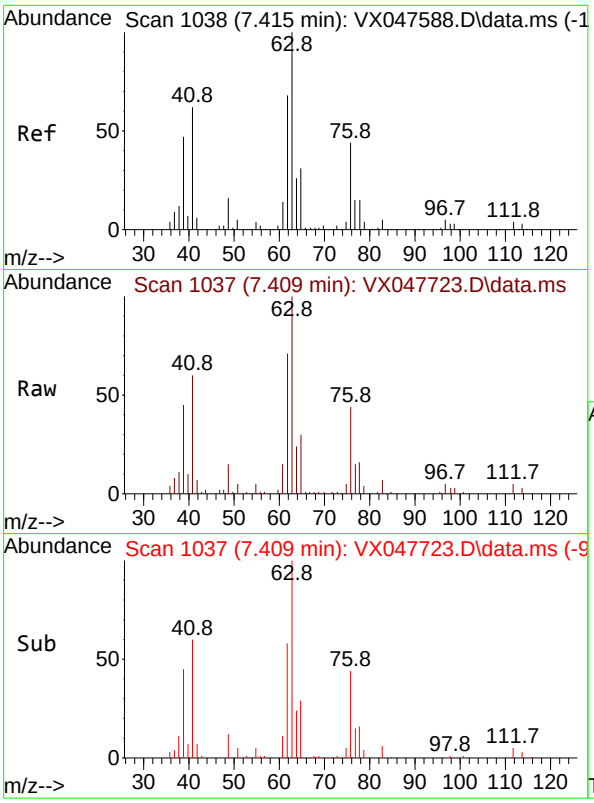


#44
Trichloroethene
Concen: 17.464 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:130 Resp: 40550

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	210.8



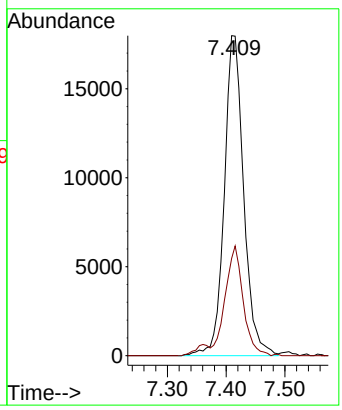


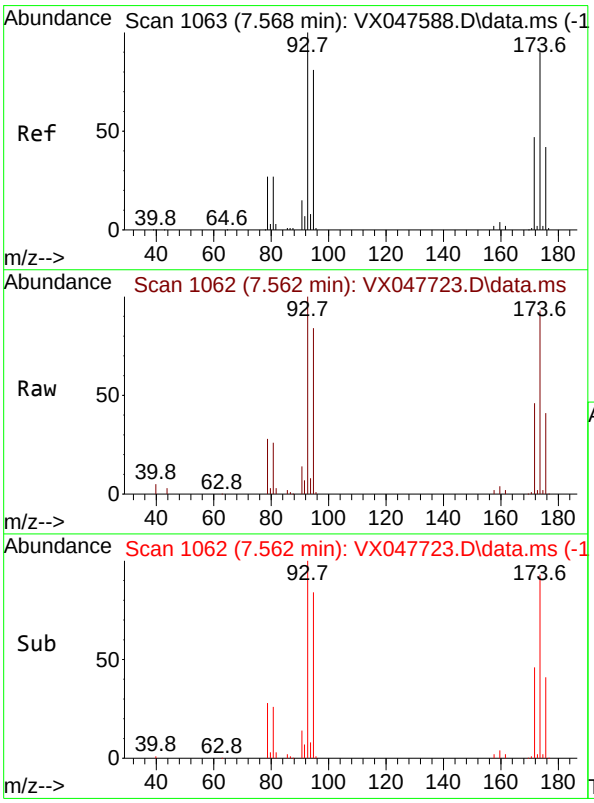
#45
1,2-Dichloropropane
Concen: 16.811 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 63 Resp: 41341

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.7	37.1

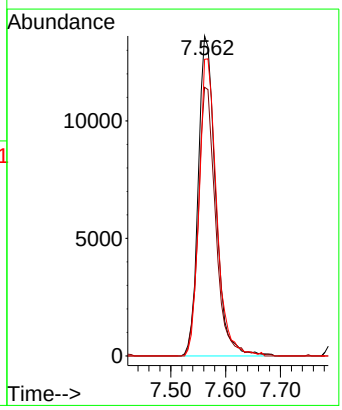


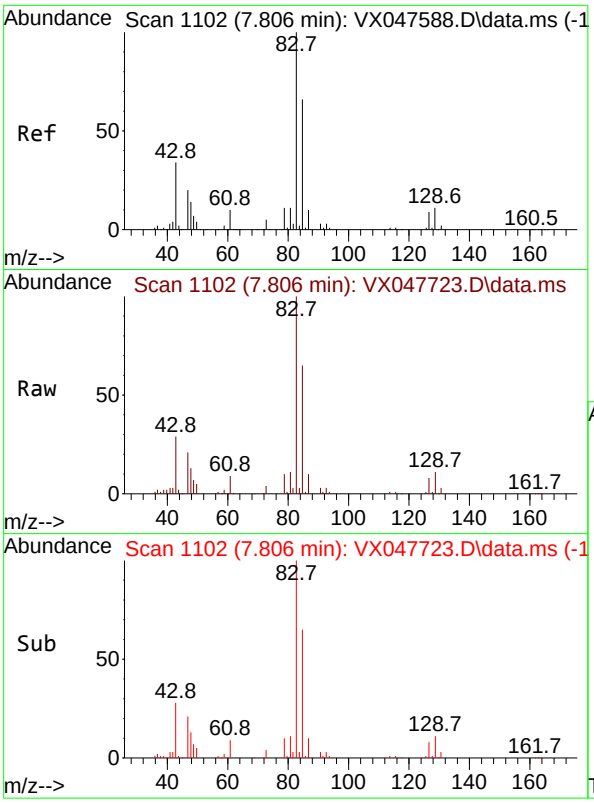


#46
Dibromomethane
Concen: 16.746 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 93 Resp: 29969

Ion	Ratio	Lower	Upper
93	100		
95	83.8	65.0	97.6
174	93.4	71.6	107.4



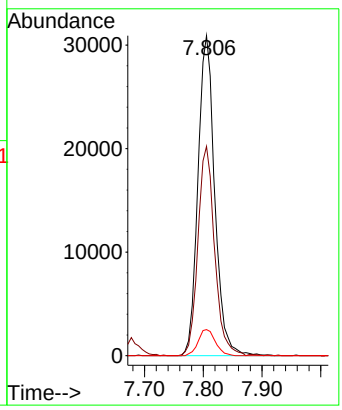


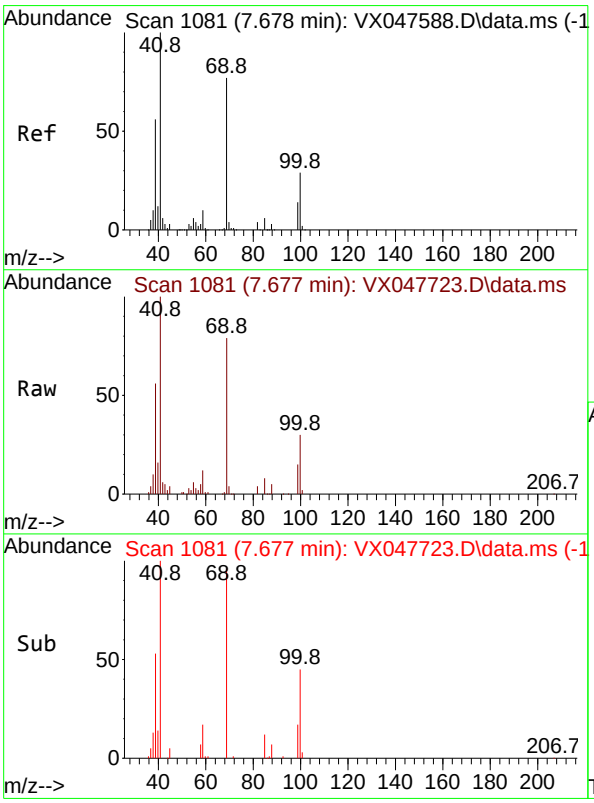
#47
Bromodichloromethane
Concen: 16.577 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 83 Resp: 61218

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.5	78.7
127	8.2	6.9	10.3

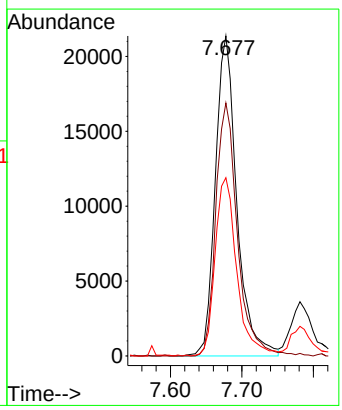


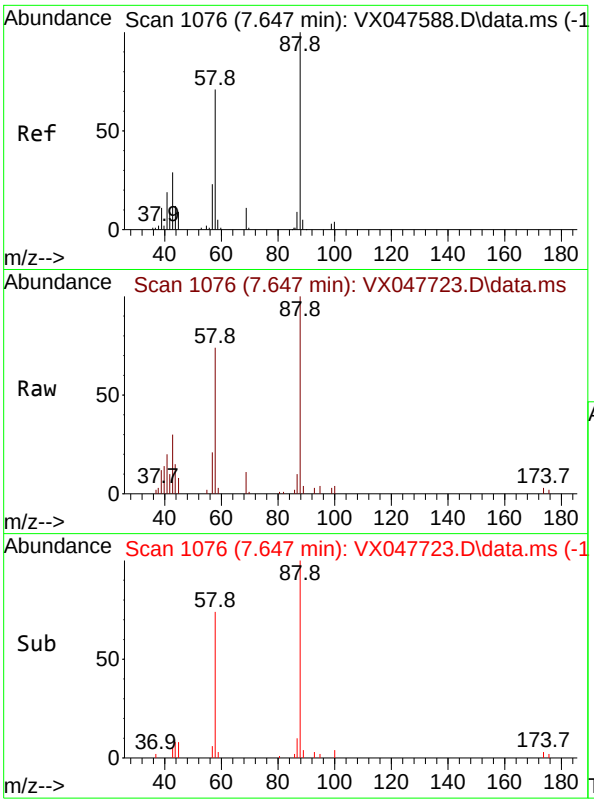


#48
Methyl methacrylate
Concen: 16.166 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 41 Resp: 44713

Ion	Ratio	Lower	Upper
41	100		
69	79.6	61.4	92.2
39	56.3	45.8	68.6



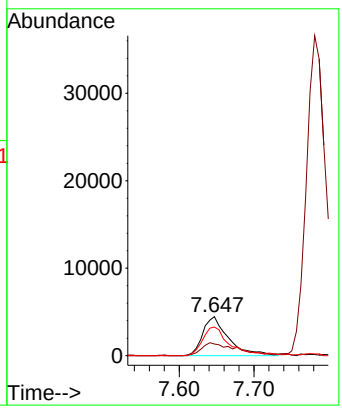


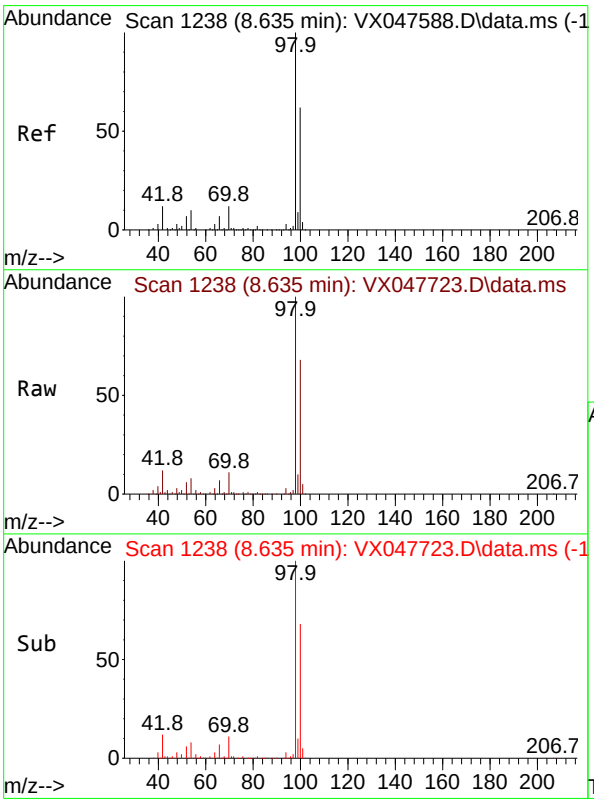
#49
1,4-Dioxane
Concen: 382.549 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 88 Resp: 10693

Ion	Ratio	Lower	Upper
88	100		
43	45.0	30.2	45.2
58	76.6	59.5	89.3

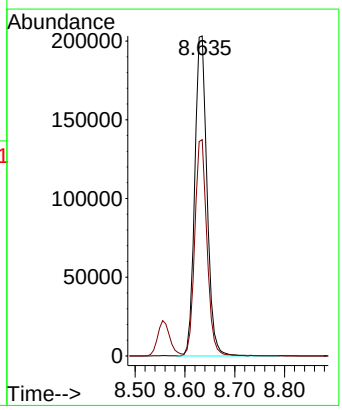


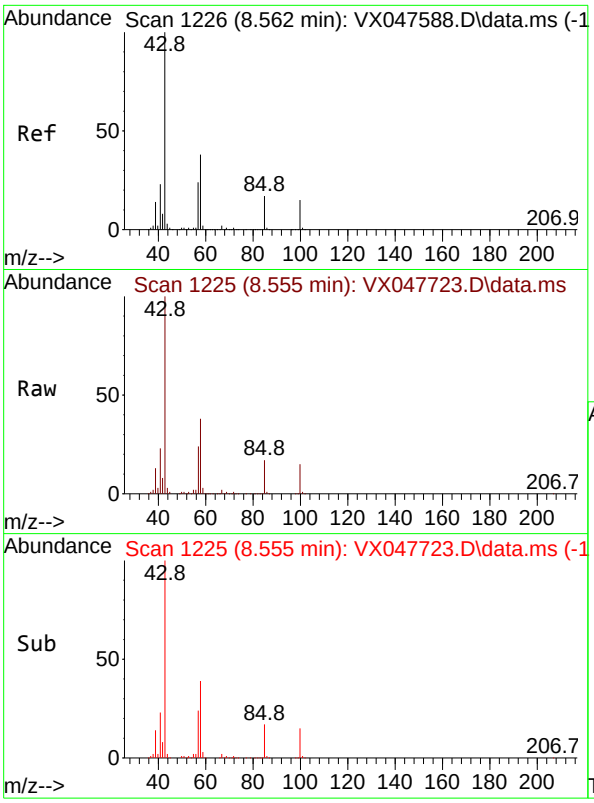


#50
Toluene-d8
Concen: 46.366 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 98 Resp: 347178

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.0	79.4



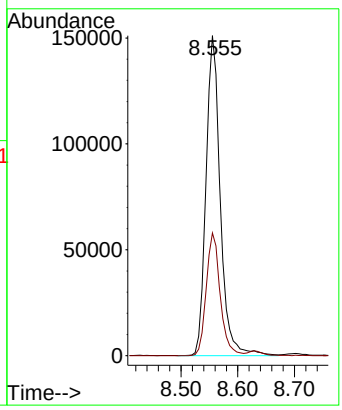


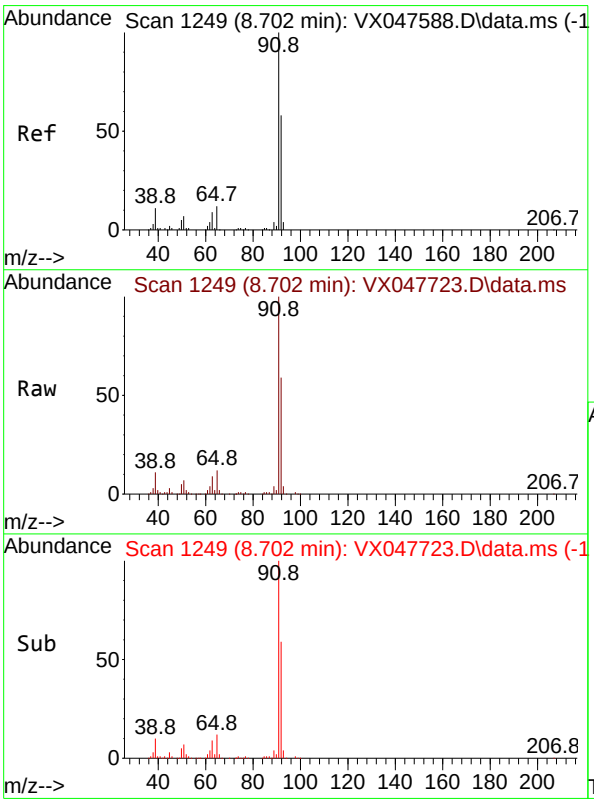
#51
4-Methyl-2-Pentanone
Concen: 85.968 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 264665

Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.3	45.5

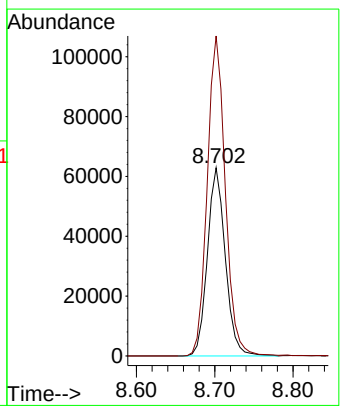


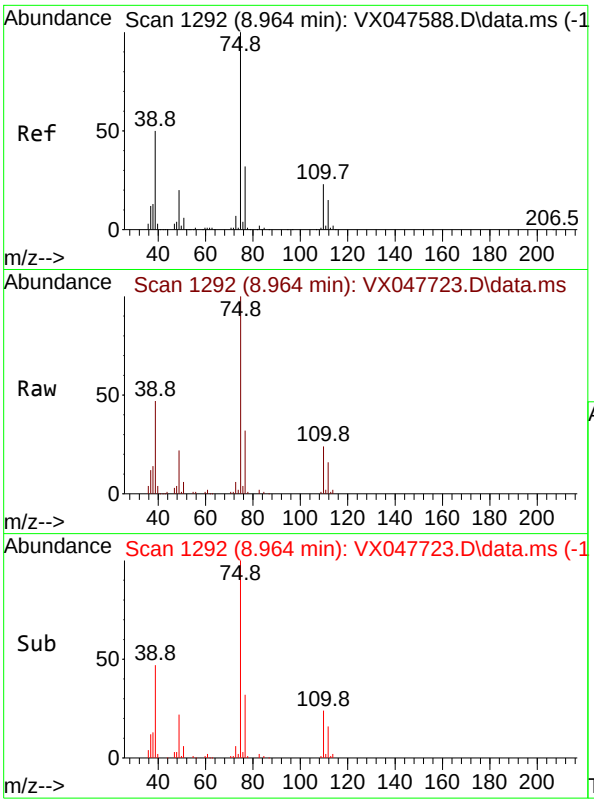


#52
Toluene
Concen: 16.863 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 92 Resp: 99779

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.1	205.7



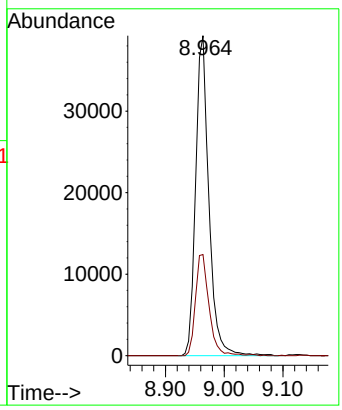


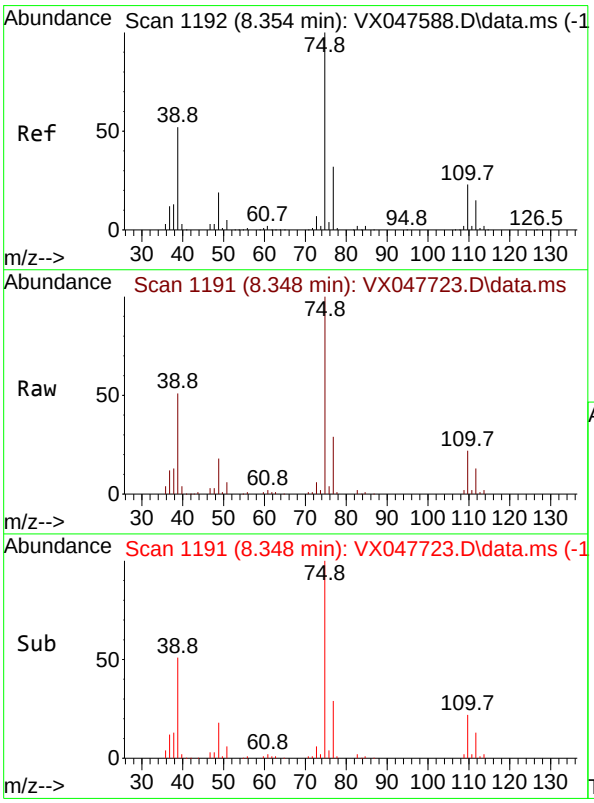
#53
t-1,3-Dichloropropene
Concen: 16.298 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 75 Resp: 61393

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

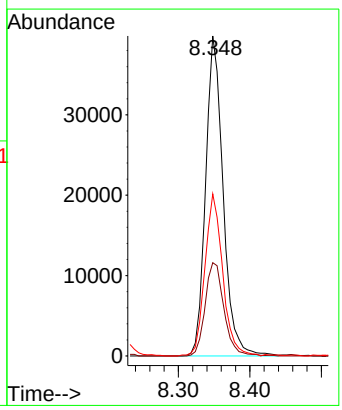


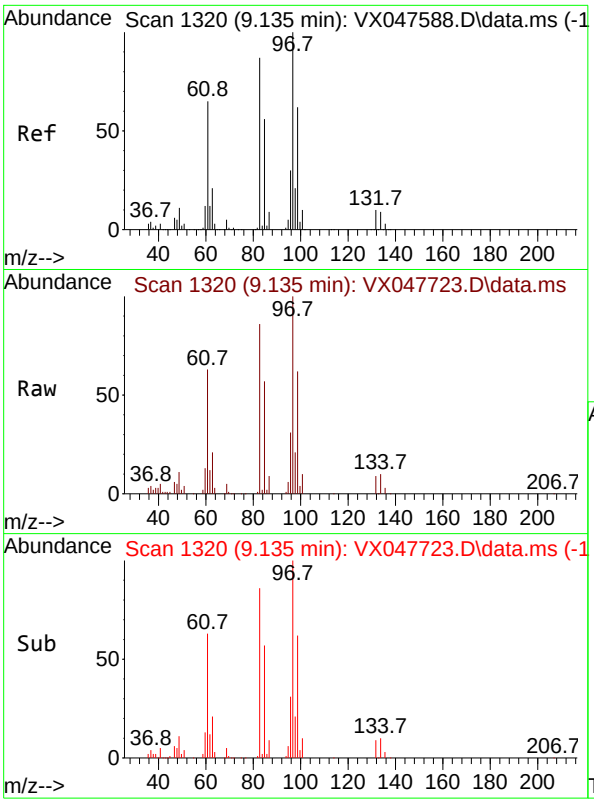


#54
cis-1,3-Dichloropropene
Concen: 16.810 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 67677

Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.8	38.6
39	50.6	41.4	62.2



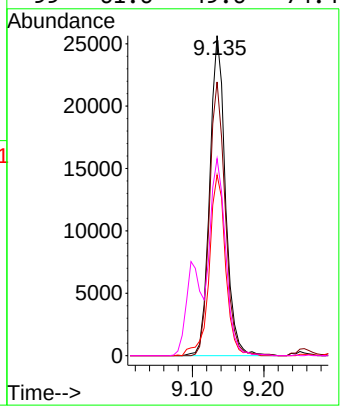


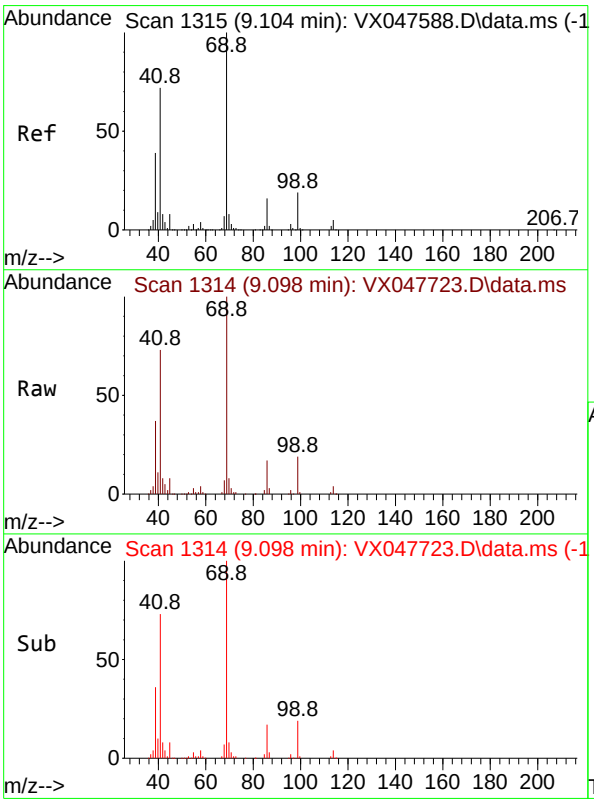
#55
1,1,2-Trichloroethane
Concen: 17.151 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 97 Resp: 39130

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.6	104.4
85	56.5	45.0	67.6
99	61.6	49.6	74.4

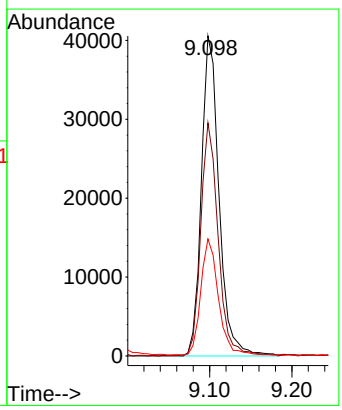


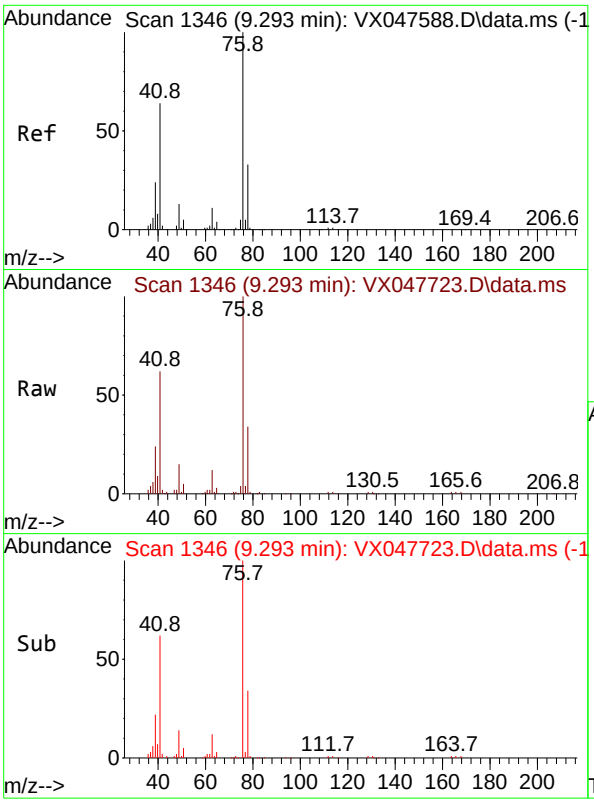


#56
Ethyl methacrylate
Concen: 16.859 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 69 Resp: 60408

Ion	Ratio	Lower	Upper
69	100		
41	71.2	58.6	87.8
39	37.8	31.5	47.3



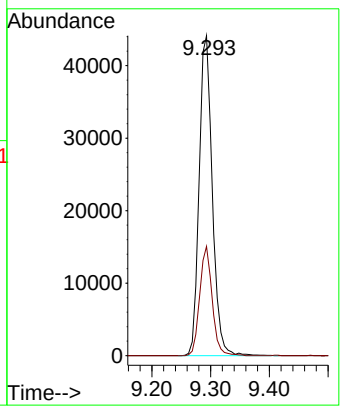


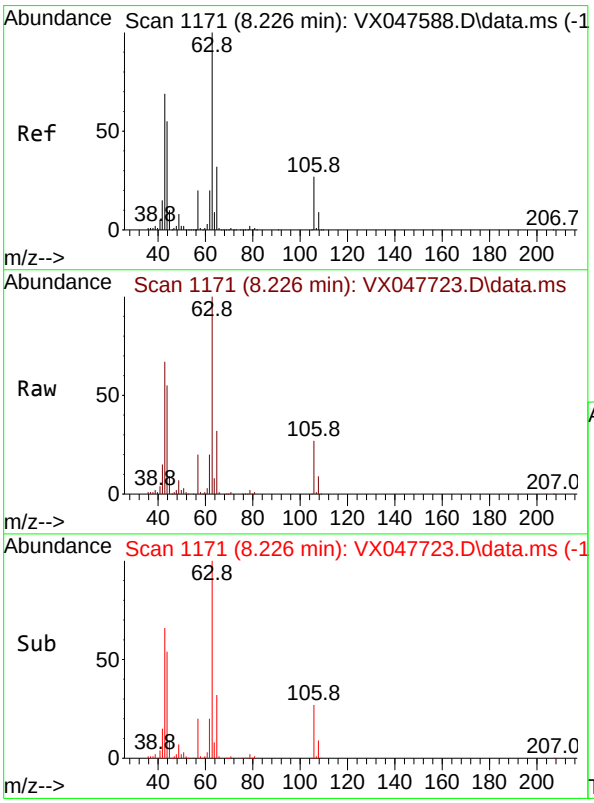
#57
1,3-Dichloropropane
Concen: 17.525 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 76 Resp: 68685

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4

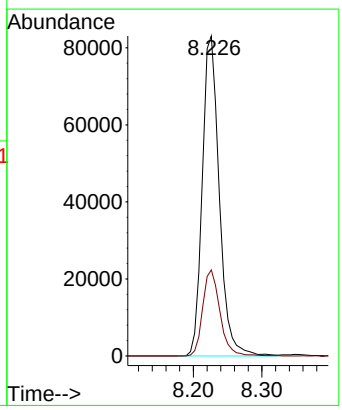


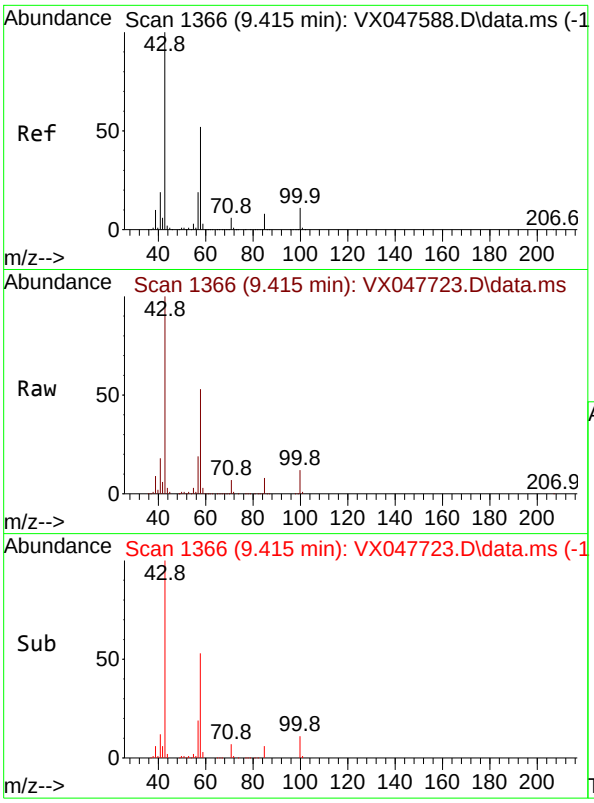


#58
2-Chloroethyl Vinyl ether
Concen: 91.195 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 63 Resp: 143660

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.9	32.9



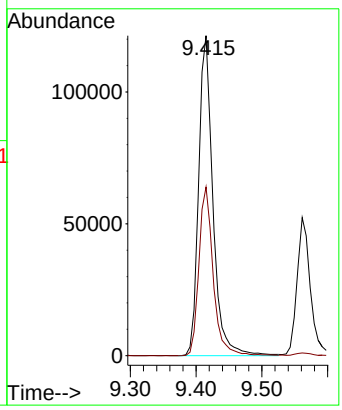


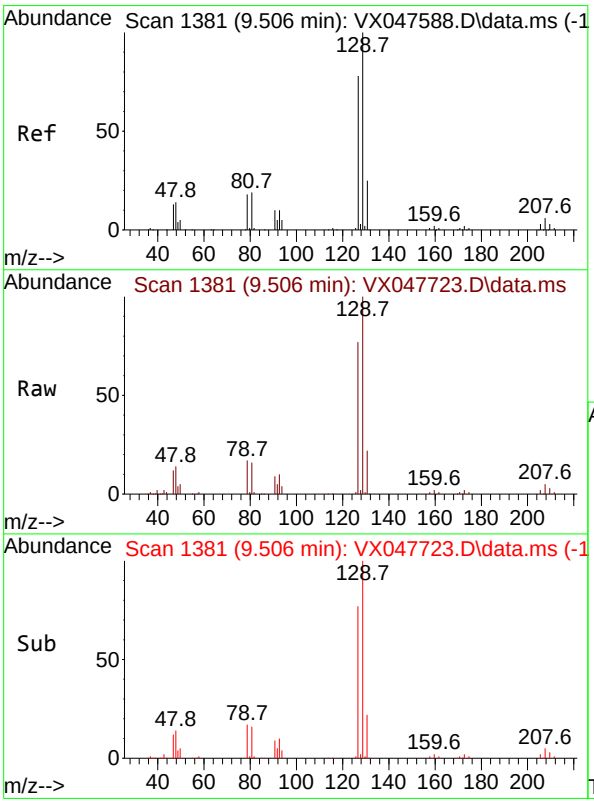
#59
2-Hexanone
Concen: 83.000 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 43 Resp: 183521

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2

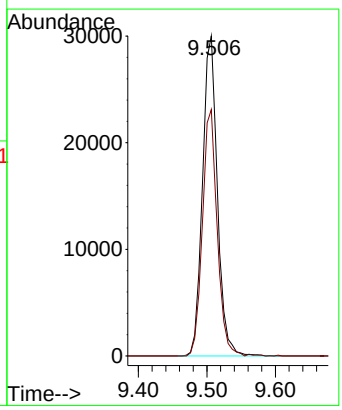


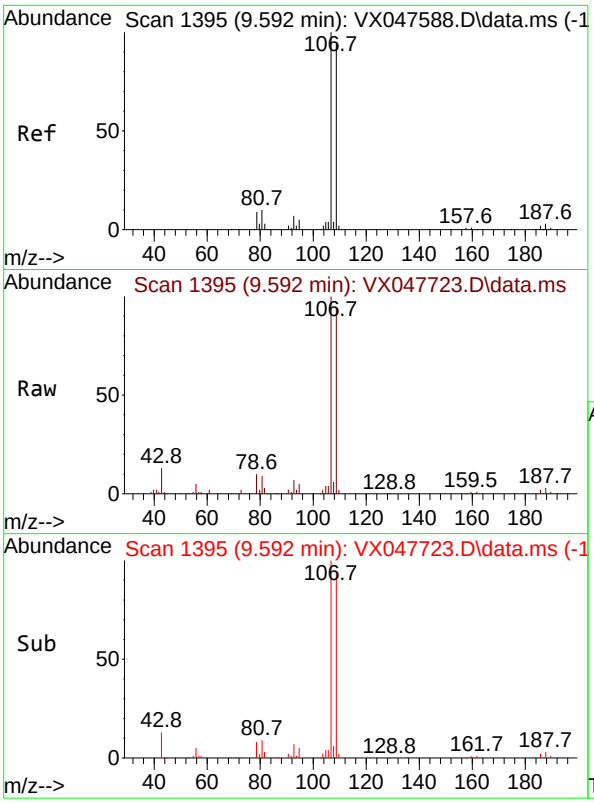


#60
Dibromochloromethane
Concen: 17.249 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:129 Resp: 45346

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.4	115.2



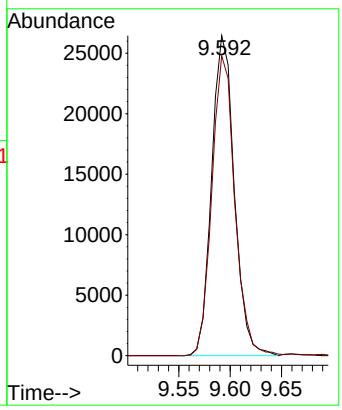


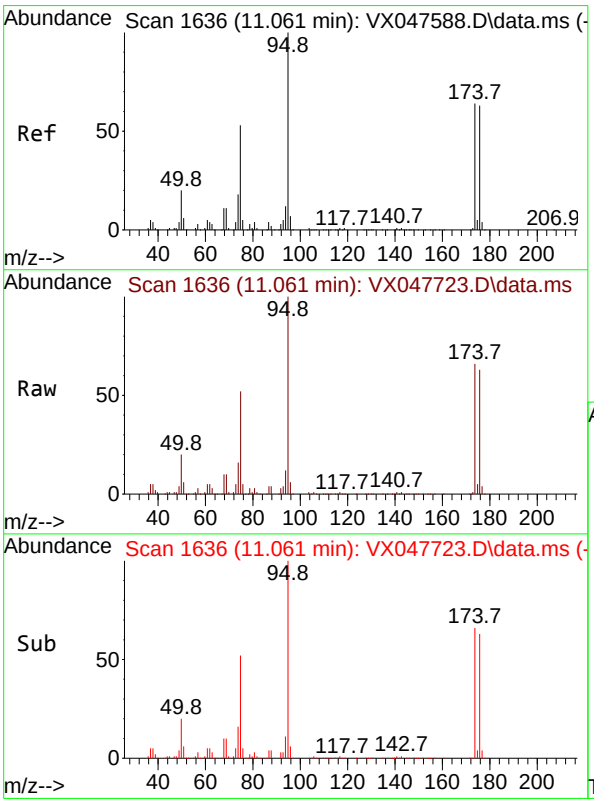
#61
1,2-Dibromoethane
Concen: 17.435 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:107 Resp: 40518

Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.3	112.9

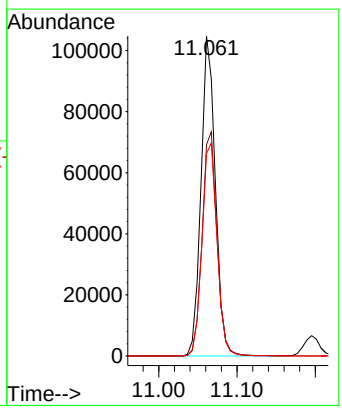


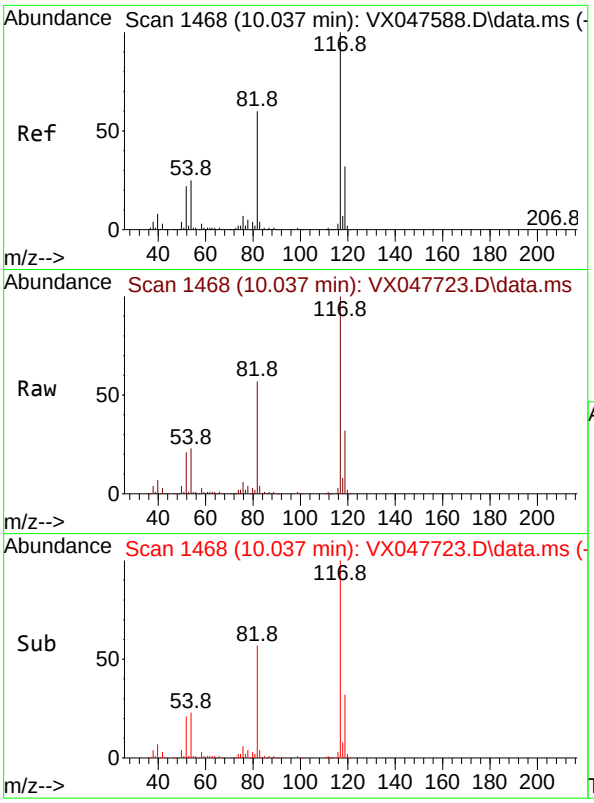


#62
4-Bromofluorobenzene
Concen: 46.772 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 95 Resp: 132914

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.6
176	70.0	0.0	138.4



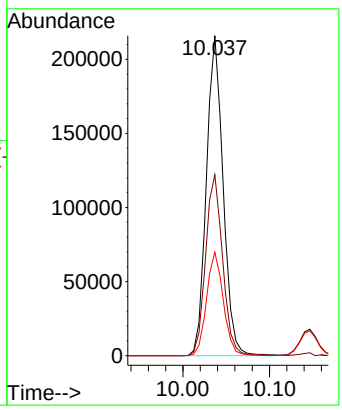


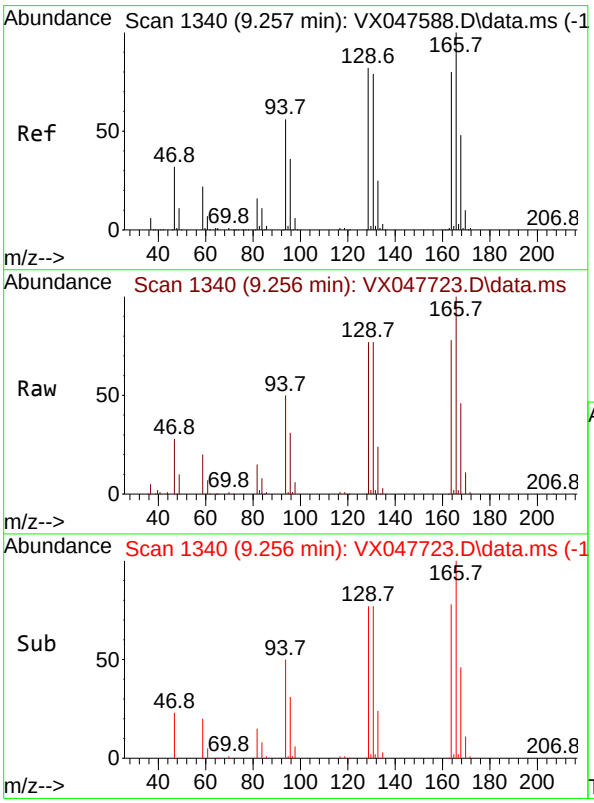
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:117 Resp: 289792

Ion	Ratio	Lower	Upper
117	100		
82	56.6	47.8	71.6
119	32.3	25.2	37.8

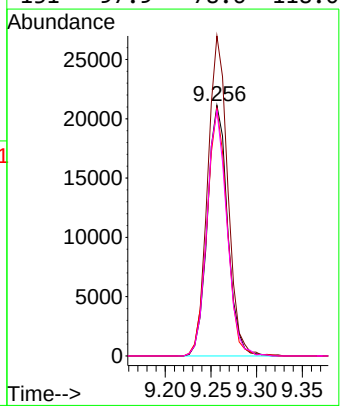


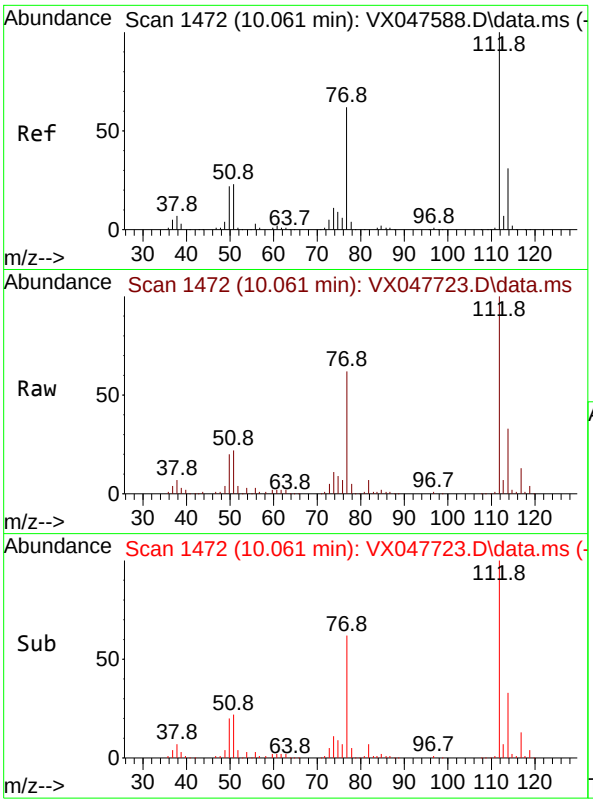


#64
Tetrachloroethene
Concen: 17.136 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:164 Resp: 32372

Ion	Ratio	Lower	Upper
164	100		
166	127.7	100.2	150.2
129	98.8	81.8	122.6
131	97.9	78.6	118.0



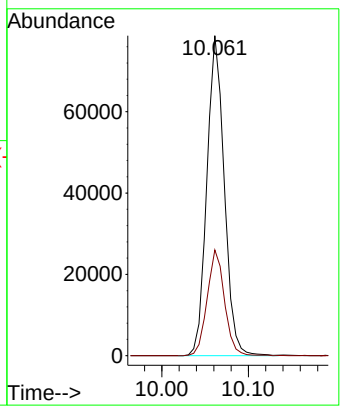


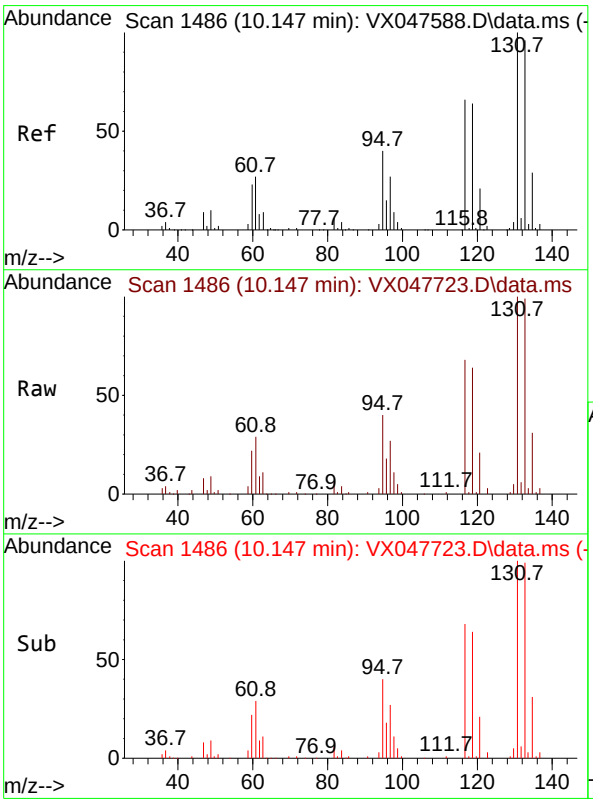
#65
Chlorobenzene
Concen: 16.694 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:112 Resp: 109903

Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.1	37.7

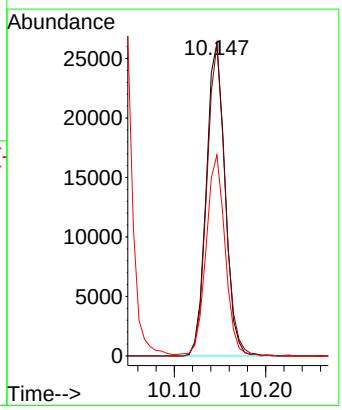


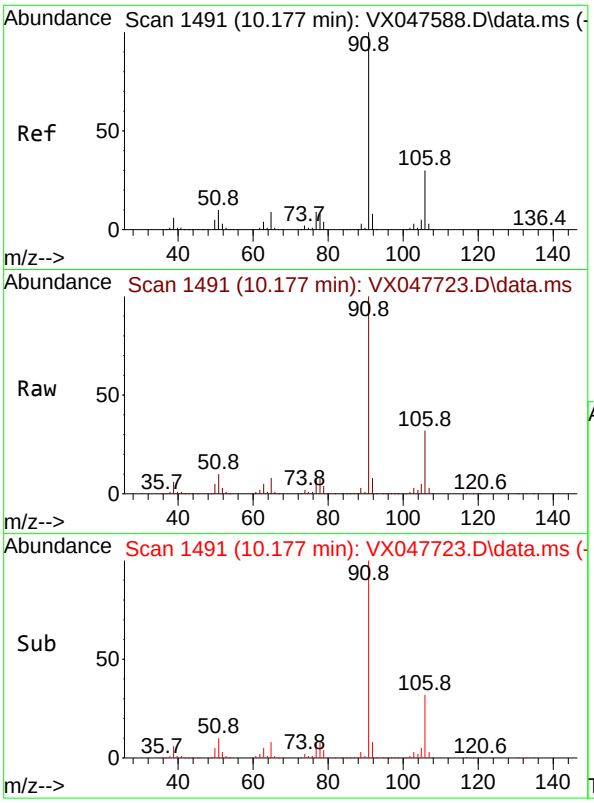


#66
1,1,1,2-Tetrachloroethane
Concen: 16.455 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:131 Resp: 37383

Ion	Ratio	Lower	Upper
131	100		
133	97.8	47.3	142.0
119	65.4	32.0	96.0



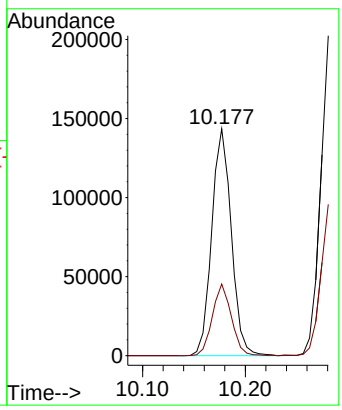


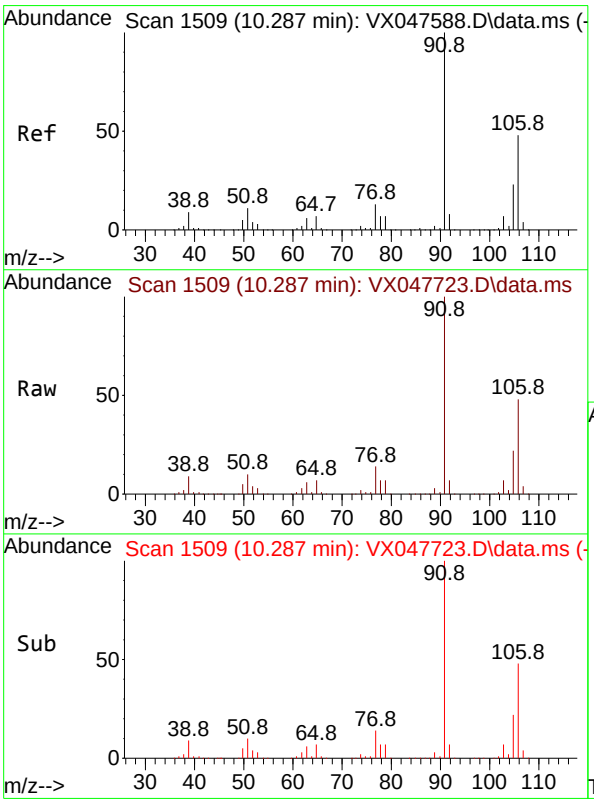
#67
Ethyl Benzene
Concen: 16.684 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 91 Resp: 189524

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.3	36.5

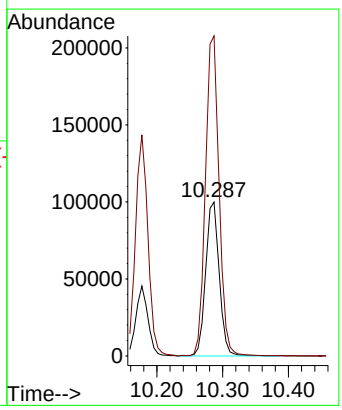


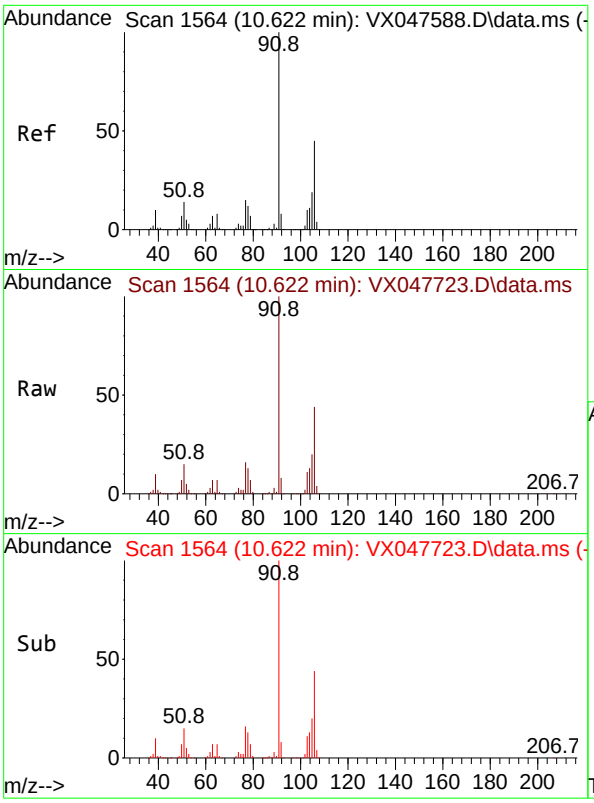


#68
m/p-Xylenes
Concen: 33.927 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:106 Resp: 143444

Ion	Ratio	Lower	Upper
106	100		
91	209.1	167.8	251.8



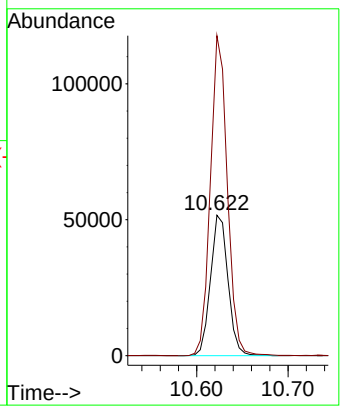


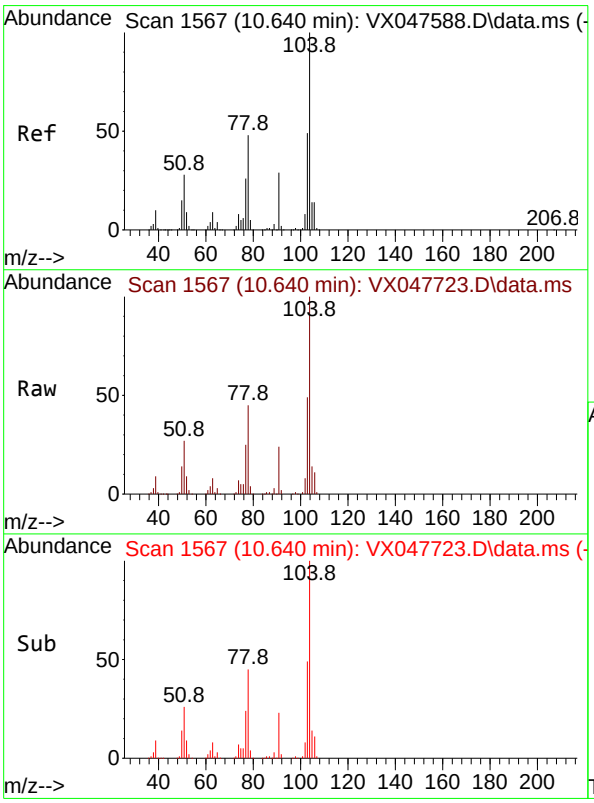
#69
o-Xylene
Concen: 16.861 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:106 Resp: 68954

Ion	Ratio	Lower	Upper
106	100		
91	220.7	111.1	333.4

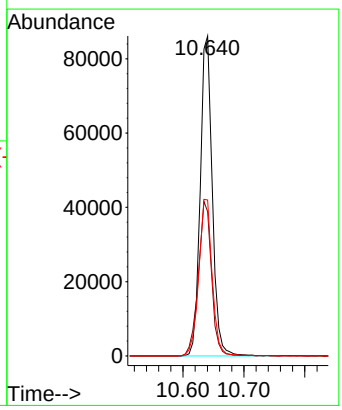


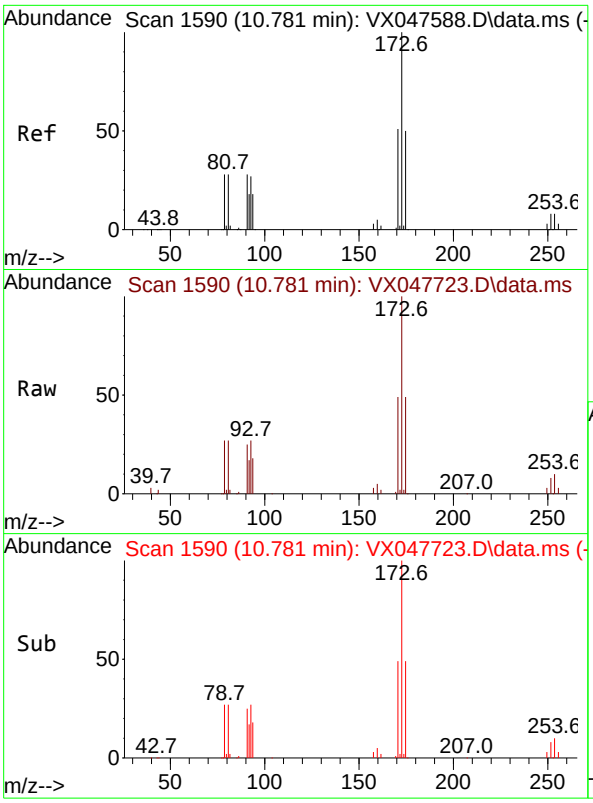


#70
Styrene
Concen: 16.552 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:104 Resp: 118603

Ion	Ratio	Lower	Upper
104	100		
78	53.0	43.1	64.7
103	54.4	43.1	64.7



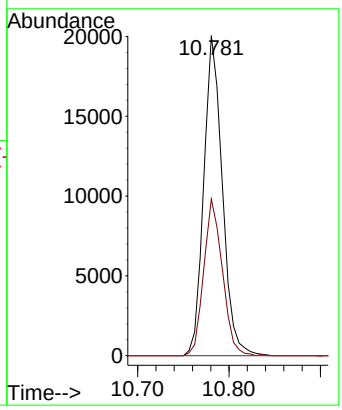


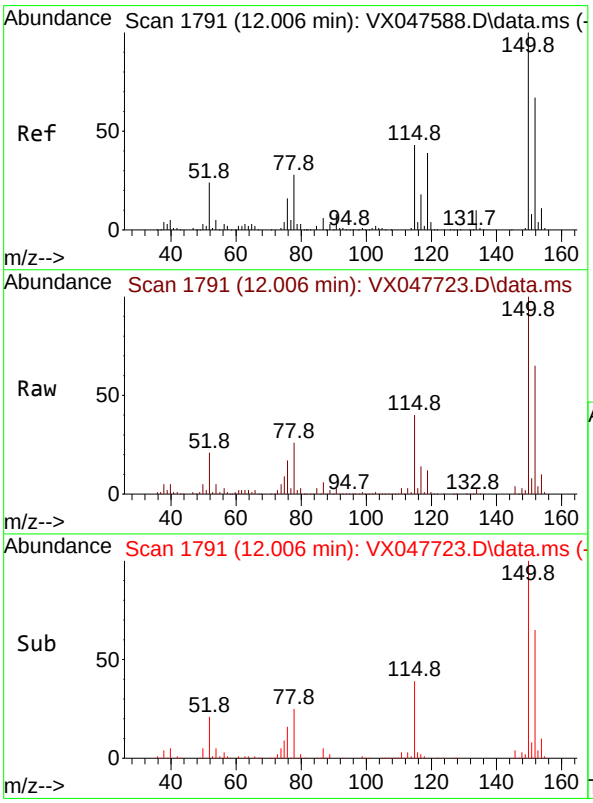
#71
Bromoform
Concen: 16.646 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:173 Resp: 28237

Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.9	74.6
254	0.0	0.1	0.1#

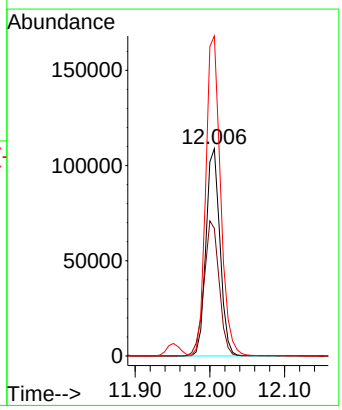


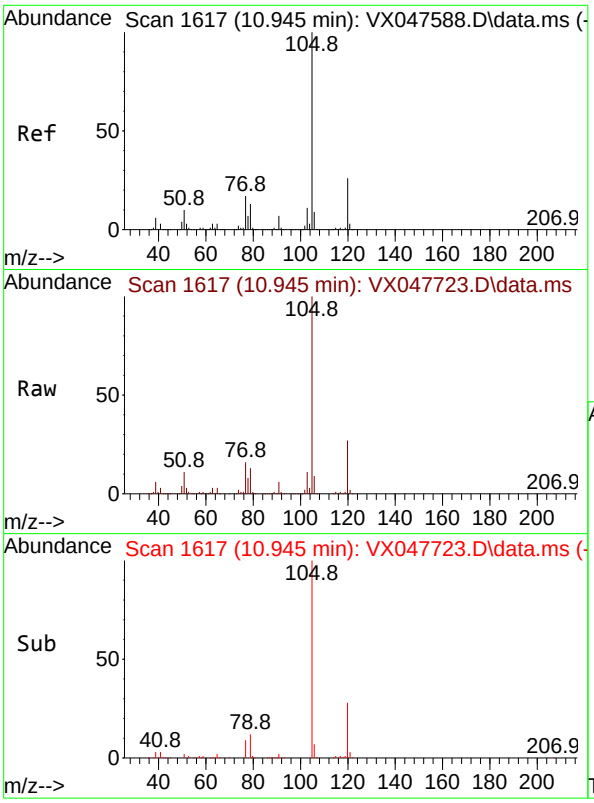


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:152 Resp: 141661

Ion	Ratio	Lower	Upper
152	100		
115	70.3	44.9	134.5
150	161.9	0.0	352.0



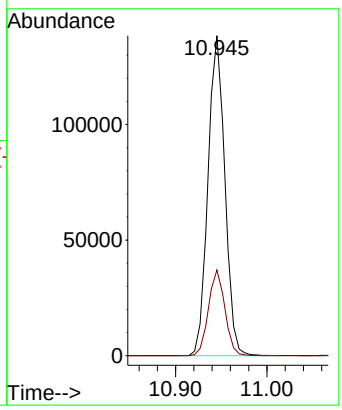


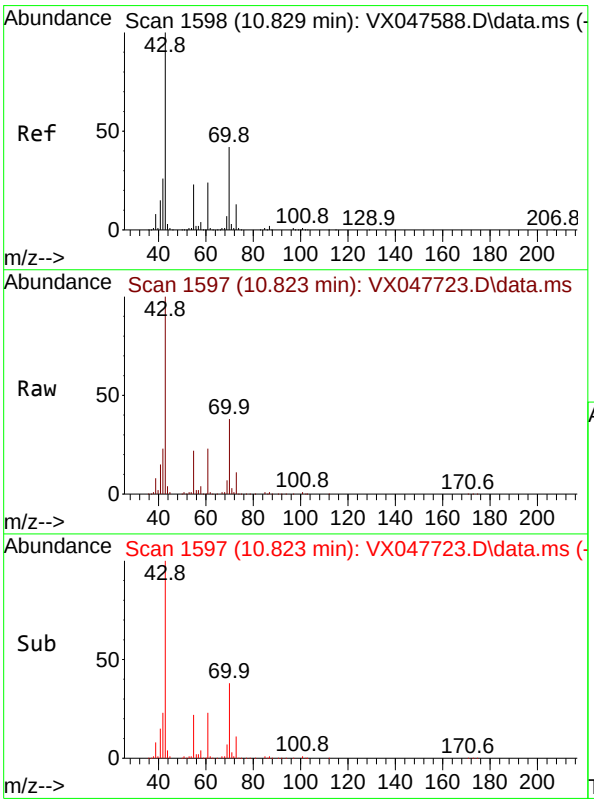
#73
Isopropylbenzene
Concen: 16.449 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:105 Resp: 177153

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

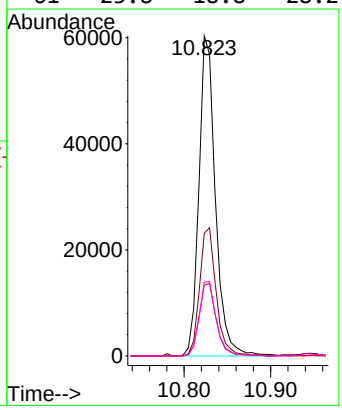


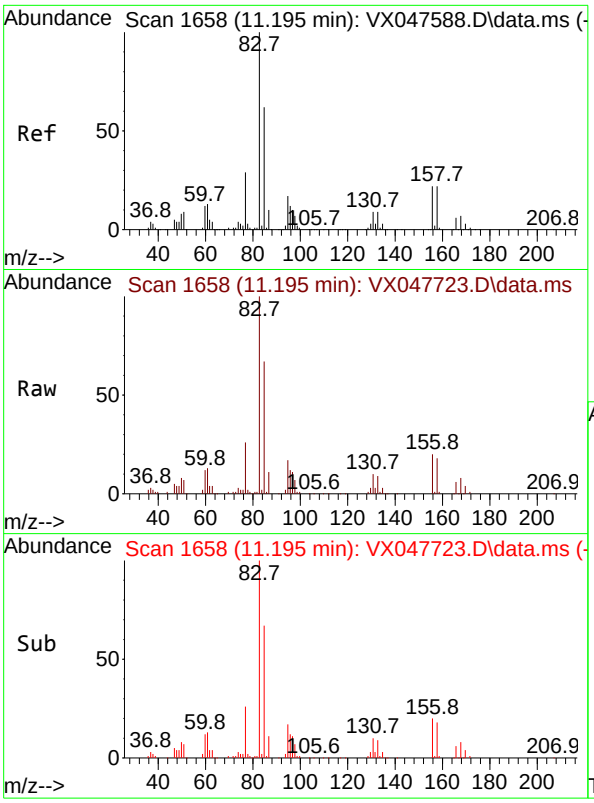


#74
N-amyl acetate
Concen: 16.296 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 43 Resp: 80035

Ion	Ratio	Lower	Upper
43	100		
70	40.3	32.0	48.0
55	23.6	18.9	28.3
61	23.8	18.8	28.2



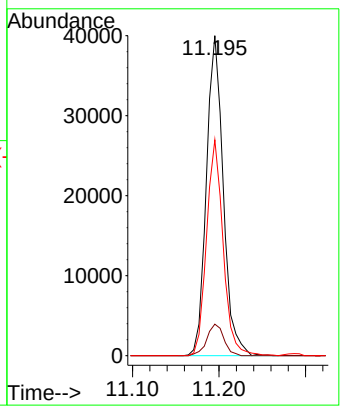


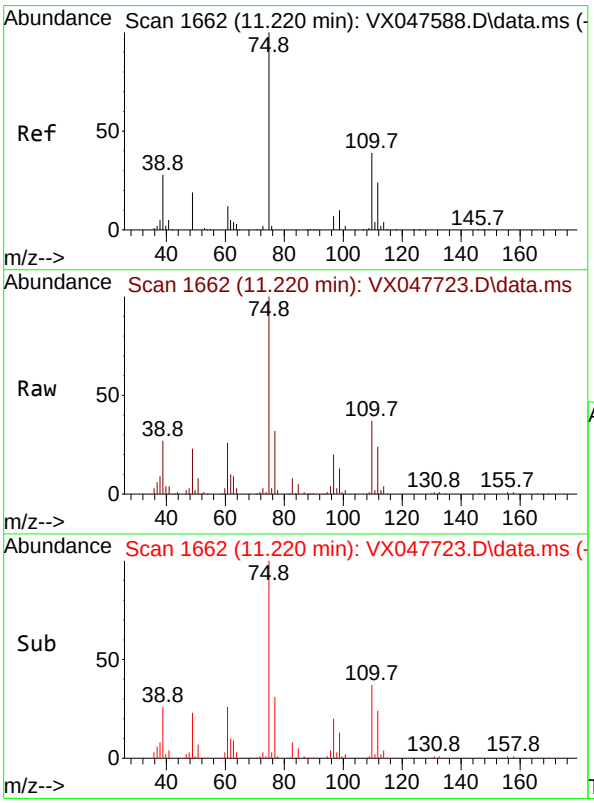
#75
1,1,2,2-Tetrachloroethane
Concen: 16.590 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 83 Resp: 54058

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	66.4	31.6	95.0

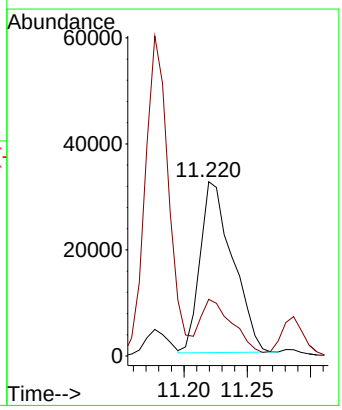


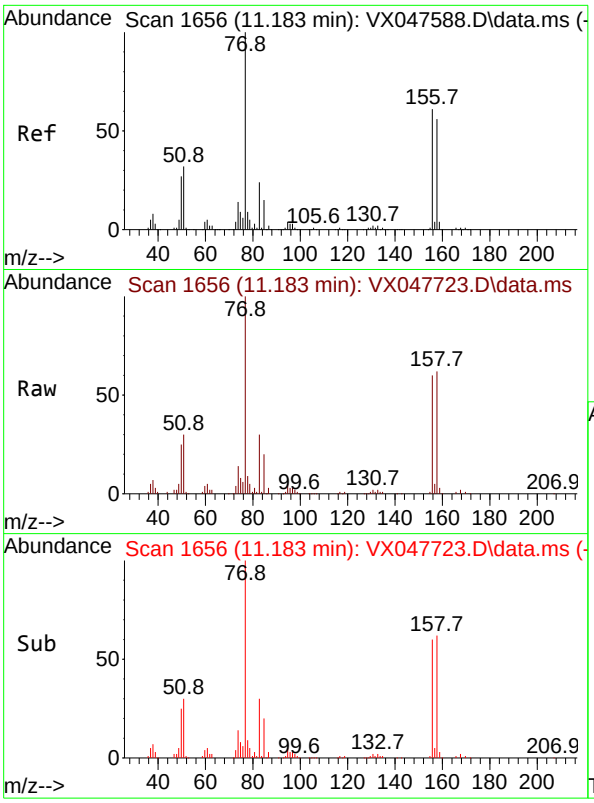


#76
1,2,3-Trichloropropane
Concen: 20.213 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 57976

Ion	Ratio	Lower	Upper
75	100		
77	32.3	18.8	56.4



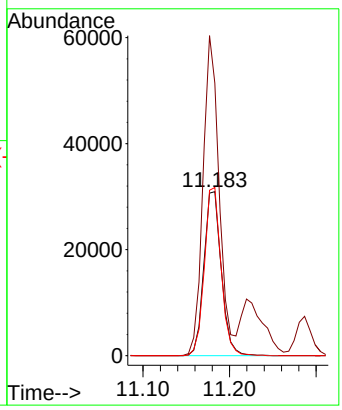


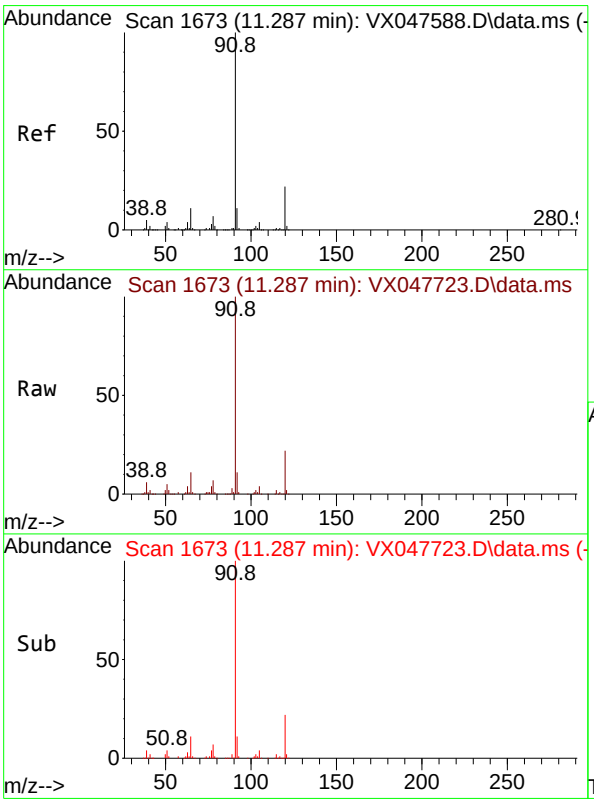
#77
Bromobenzene
Concen: 16.287 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:156 Resp: 43202

Ion	Ratio	Lower	Upper
156	100		
77	181.8	89.7	269.1
158	98.4	47.9	143.6

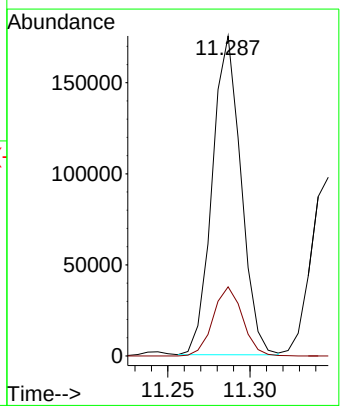


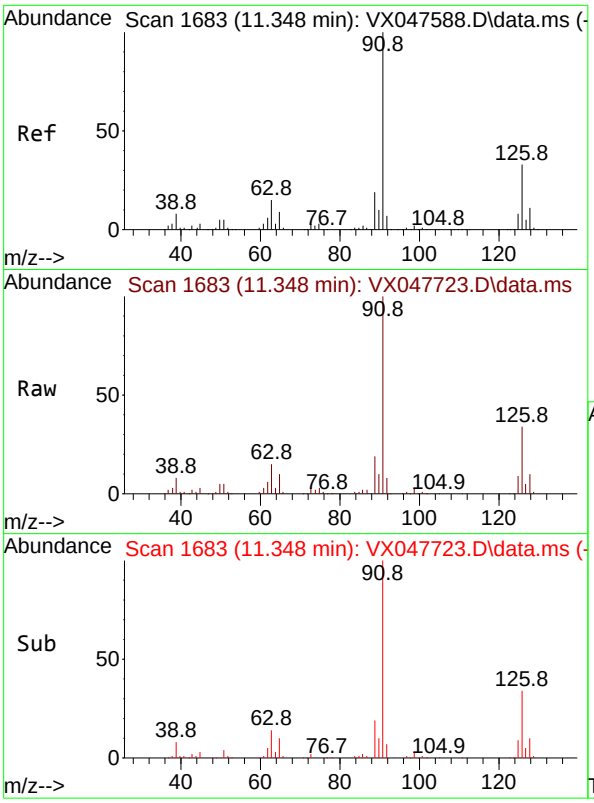


#78
n-propylbenzene
Concen: 16.736 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 213079

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1



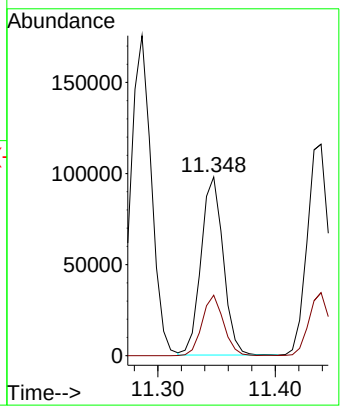


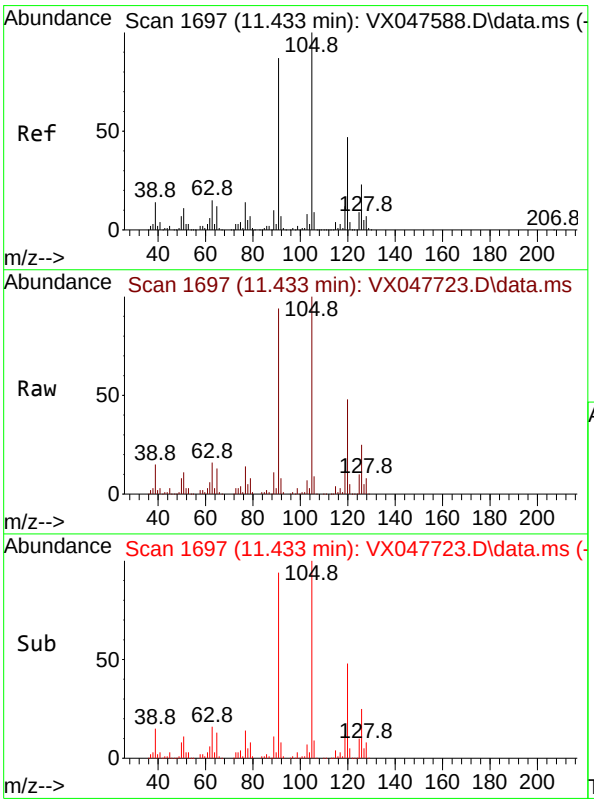
#79
2-Chlorotoluene
Concen: 16.446 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 91 Resp: 128239

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3

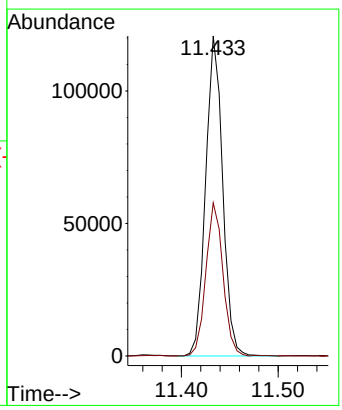


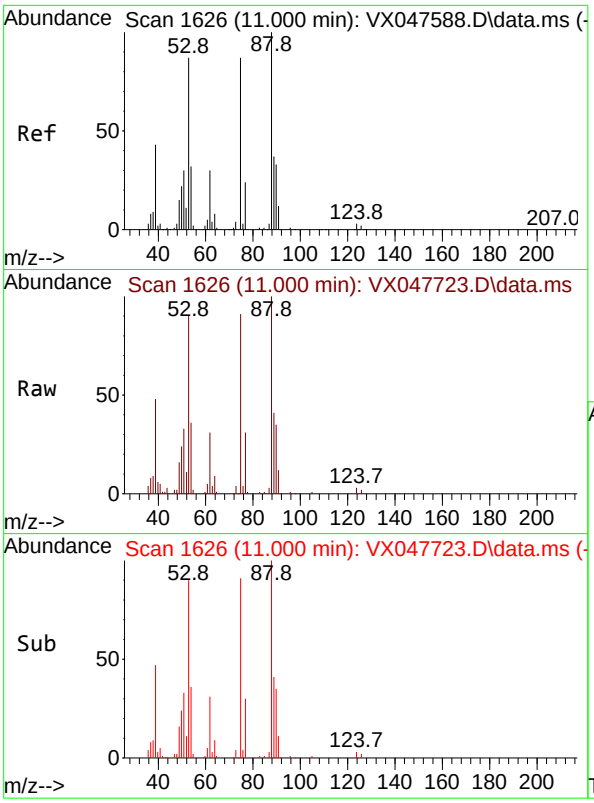


#80
1,3,5-Trimethylbenzene
Concen: 16.707 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 147832

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.6	70.8



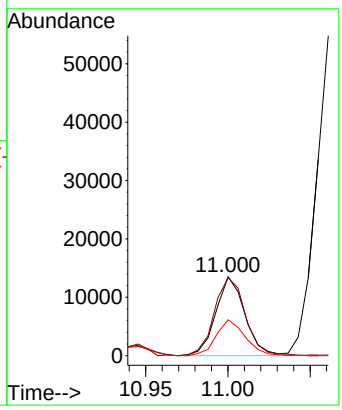


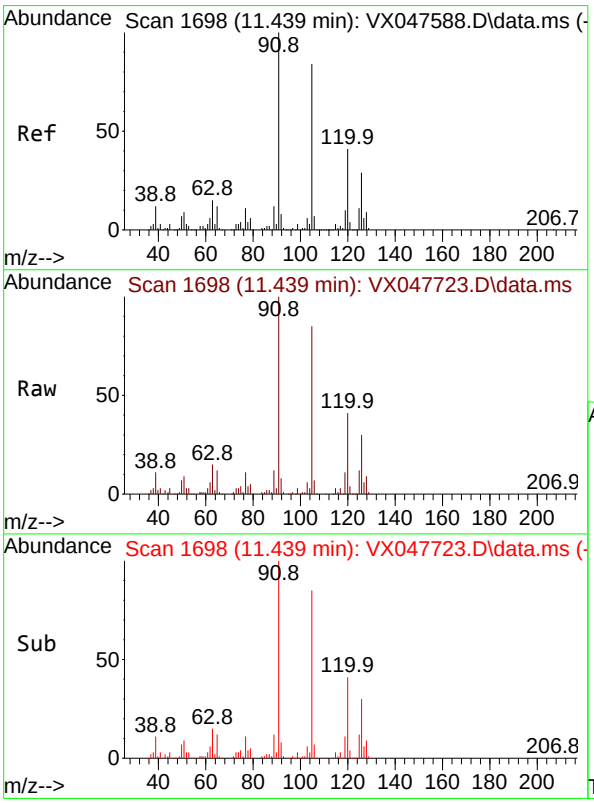
#81
trans-1,4-Dichloro-2-butene
Concen: 14.736 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 75 Resp: 16574

Ion	Ratio	Lower	Upper
75	100		
53	105.6	83.4	125.2
89	45.5	36.3	54.5

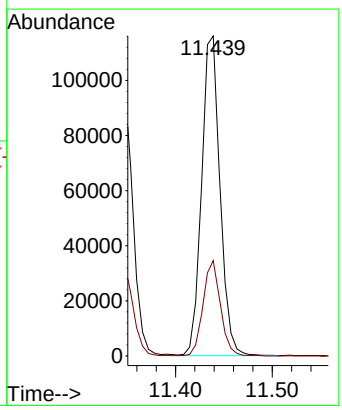


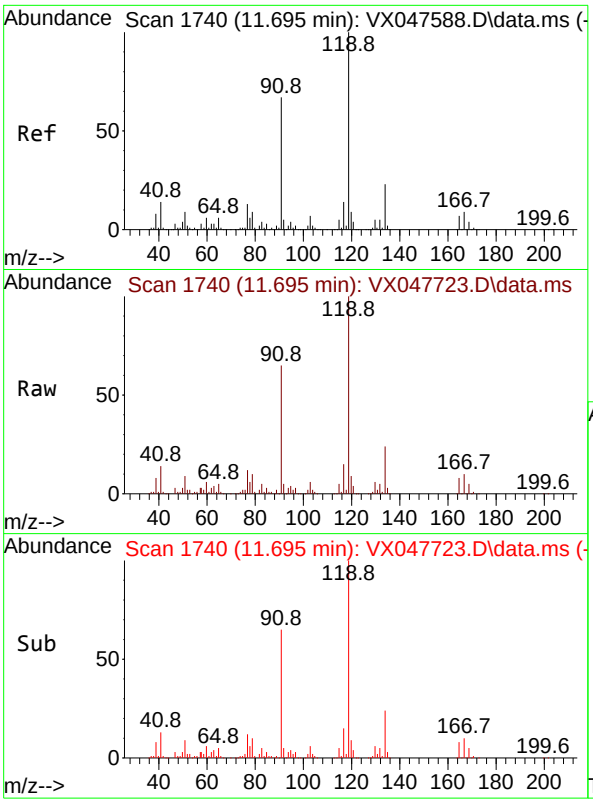


#82
4-Chlorotoluene
Concen: 16.677 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 91 Resp: 153584

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.2	42.6



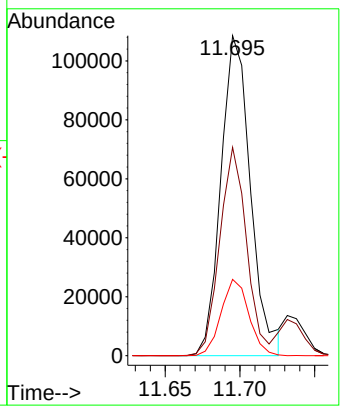


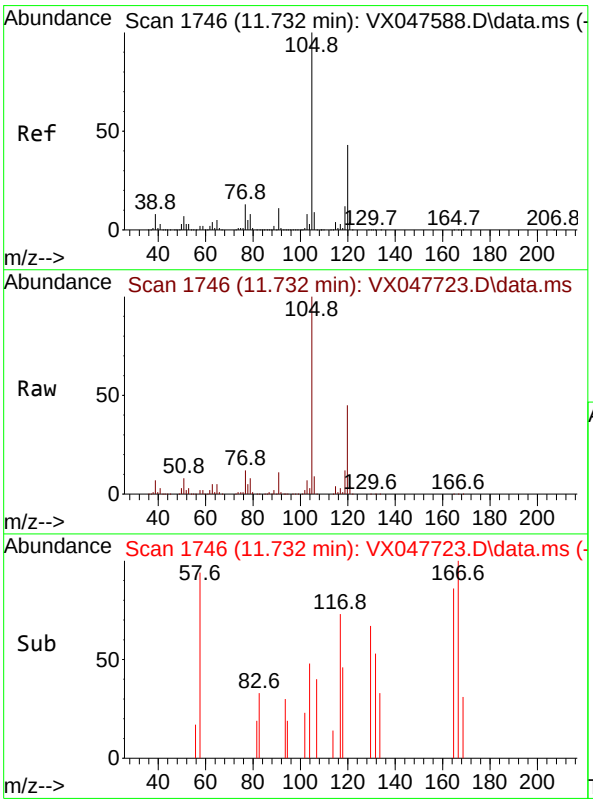
#83
tert-Butylbenzene
Concen: 16.497 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:119 Resp: 149430

Ion	Ratio	Lower	Upper
119	100		
91	59.0	29.6	88.8
134	22.4	11.0	33.0

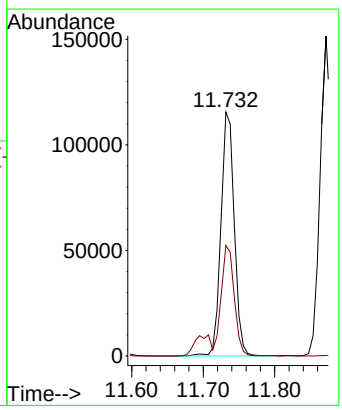


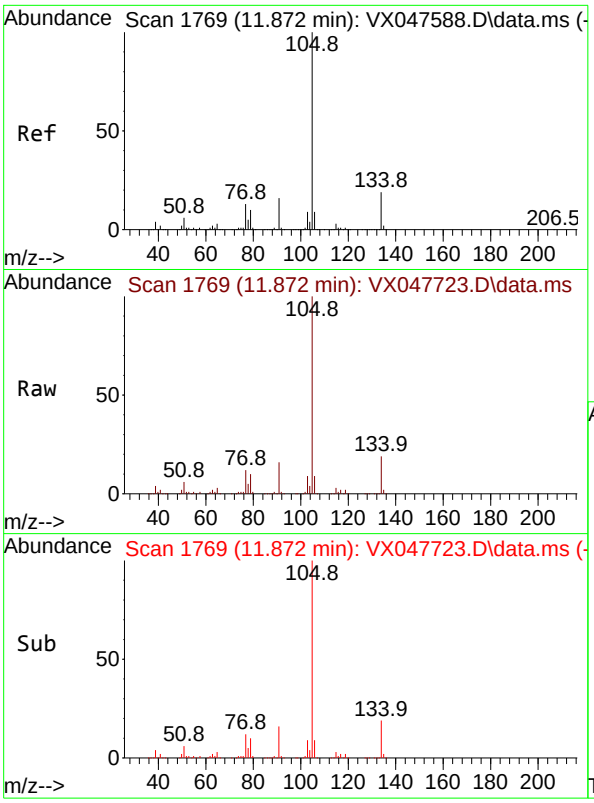


#84
1,2,4-Trimethylbenzene
Concen: 16.747 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:105 Resp: 150232

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



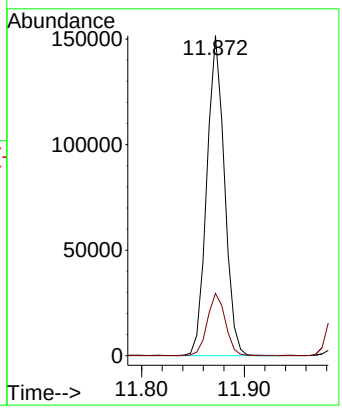


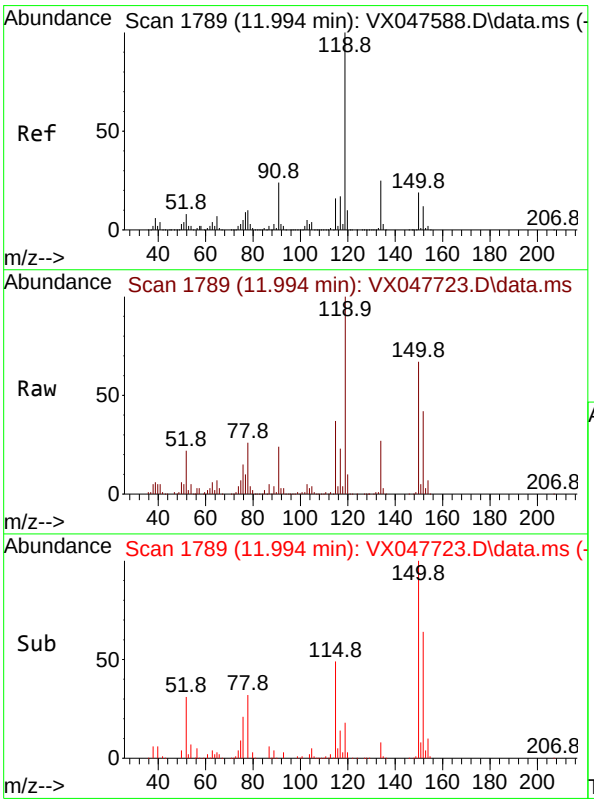
#85
sec-Butylbenzene
Concen: 16.825 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:105 Resp: 181026

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

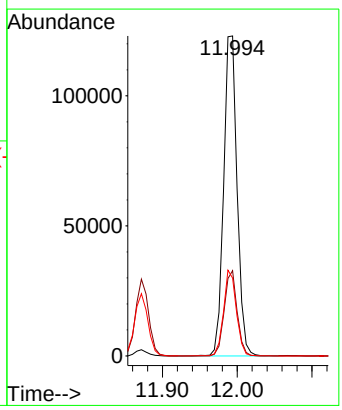


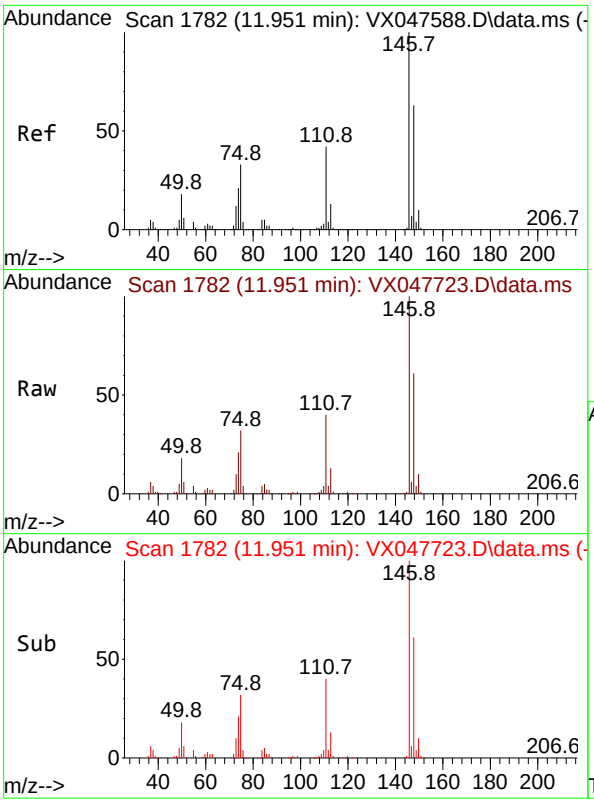


#86
p-Isopropyltoluene
Concen: 16.913 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:119 Resp: 154052

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.8
91	25.5	12.6	37.6



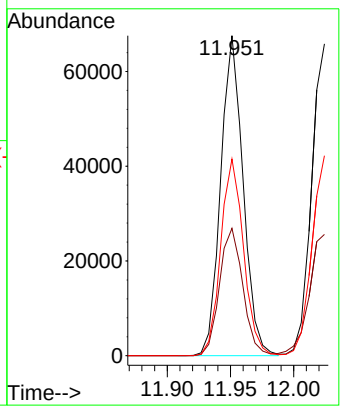


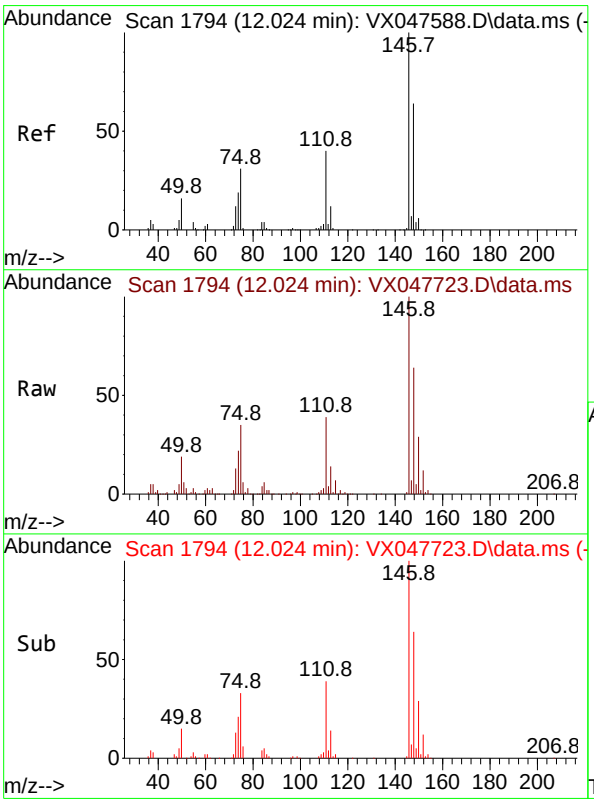
#87
1,3-Dichlorobenzene
Concen: 16.875 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:146 Resp: 83142

Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.5	64.5
148	62.7	32.0	96.0

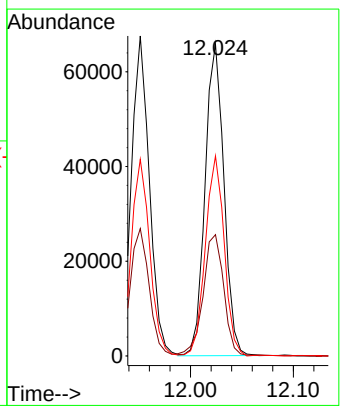


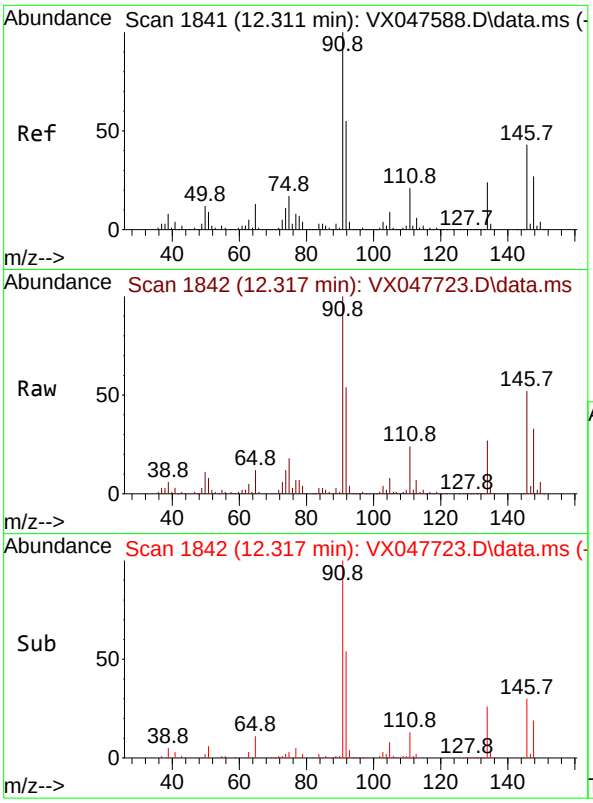


#88
1,4-Dichlorobenzene
Concen: 16.605 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:146 Resp: 83968

Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.8	62.4
148	63.9	31.7	95.1



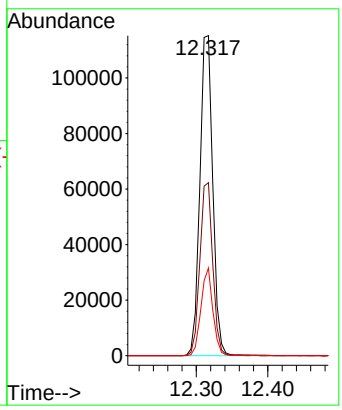


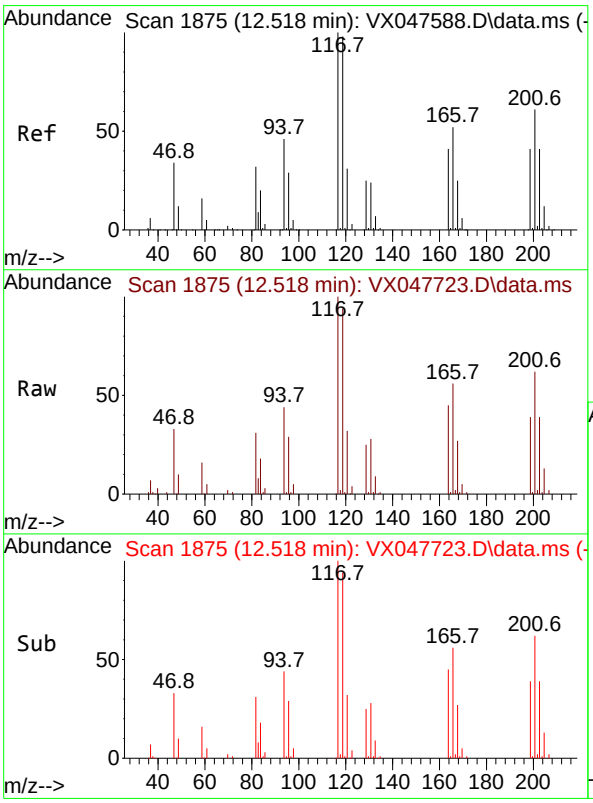
#89
n-Butylbenzene
Concen: 17.140 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion: 91 Resp: 144464

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.6	82.7
134	25.2	12.6	37.8

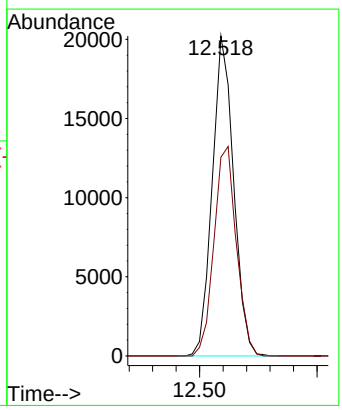


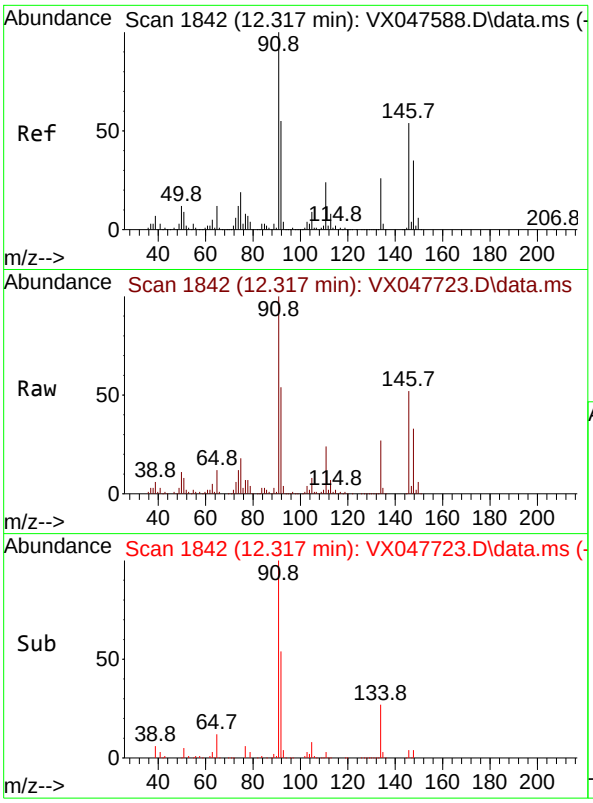


#90
Hexachloroethane
Concen: 15.981 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:117 Resp: 25557

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5



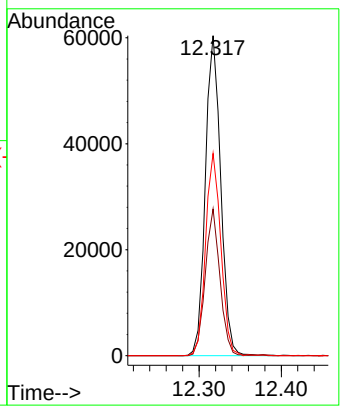


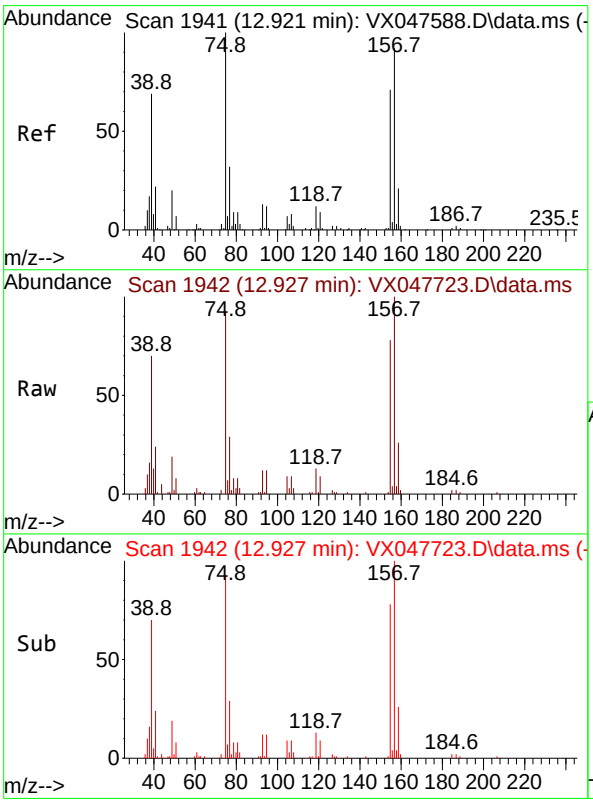
#91
1,2-Dichlorobenzene
Concen: 16.683 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:146 Resp: 78309

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	62.9	31.8	95.4

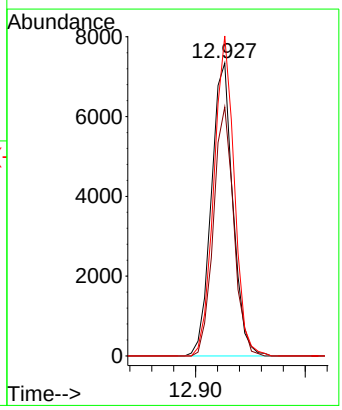


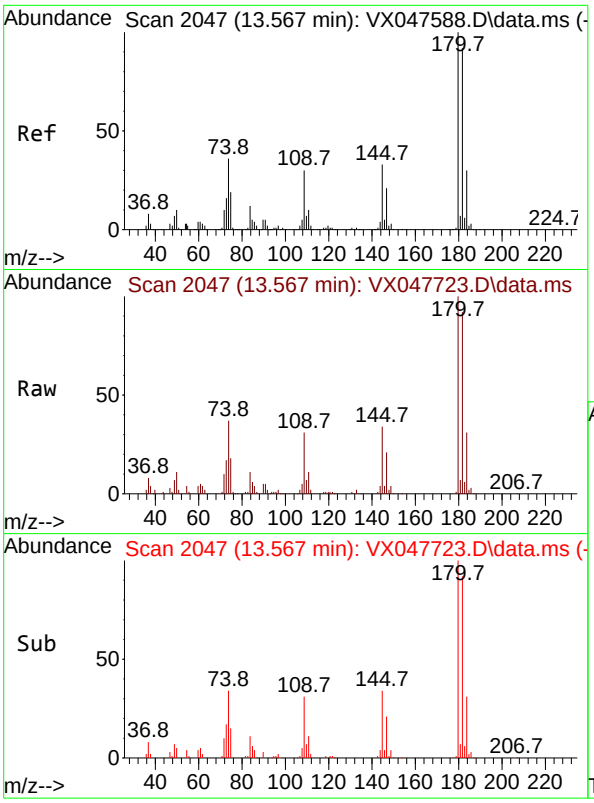


#92
1,2-Dibromo-3-Chloropropane
Concen: 15.194 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion: 75 Resp: 10024

Ion	Ratio	Lower	Upper
75	100		
155	79.9	37.7	113.1
157	103.6	49.8	149.4



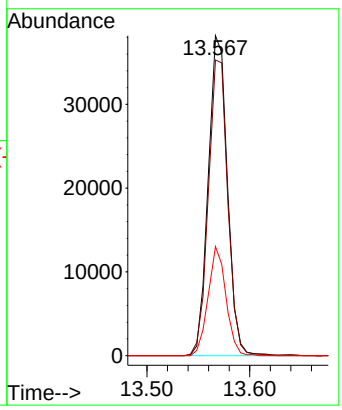


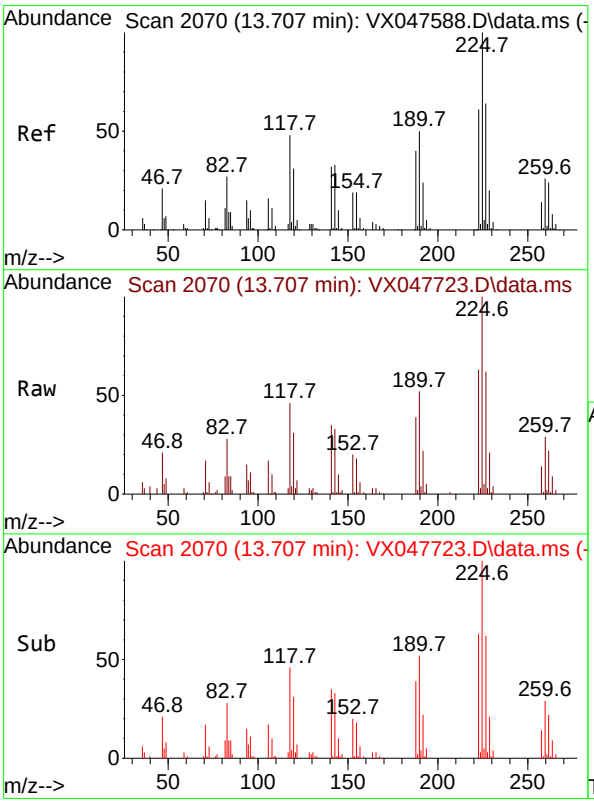
#93
1,2,4-Trichlorobenzene
Concen: 16.182 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:180 Resp: 49366

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.6	139.8
145	31.9	16.4	49.1

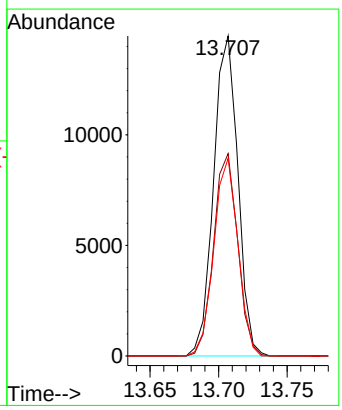


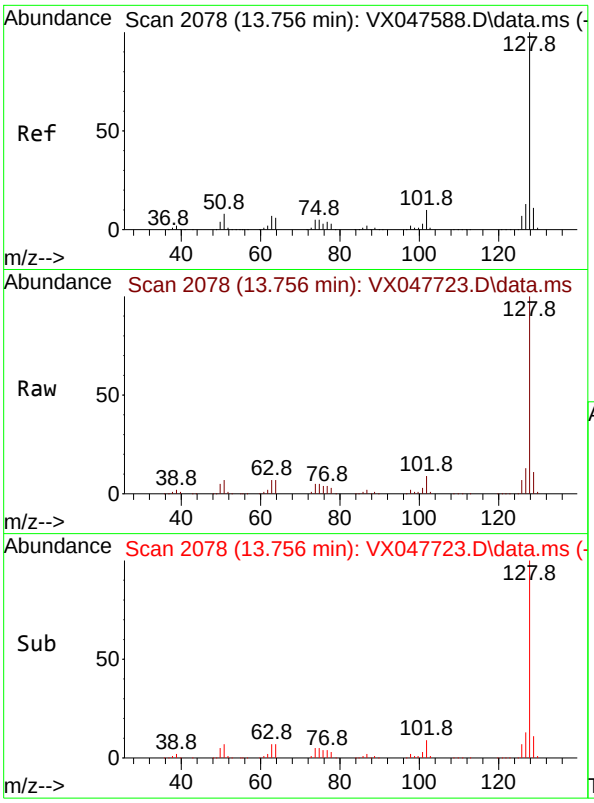


#94
Hexachlorobutadiene
Concen: 17.165 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:225 Resp: 17786

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.7	95.1
227	61.4	32.0	96.0



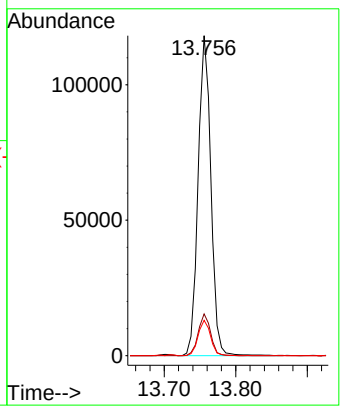


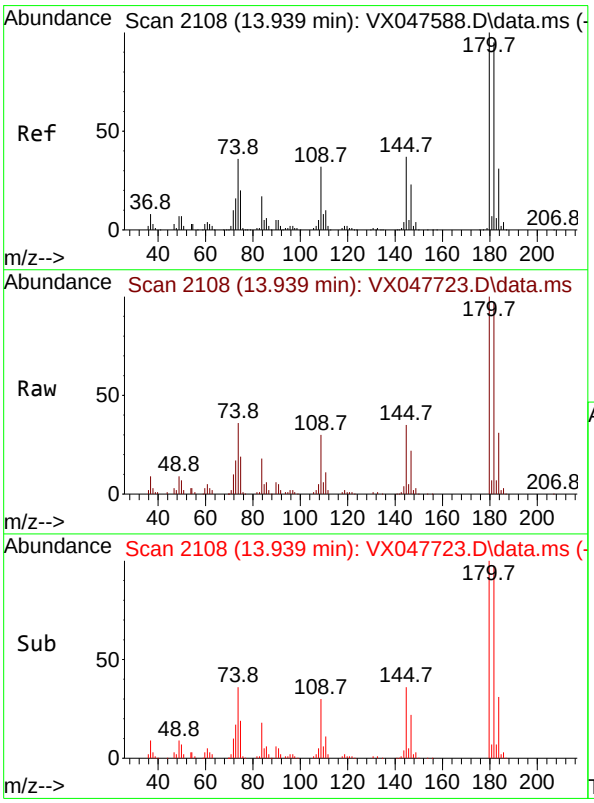
#95
Naphthalene
Concen: 15.742 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS02

Tgt Ion:128 Resp: 146235

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2

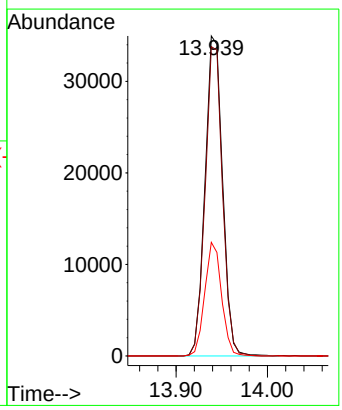




#96
1,2,3-Trichlorobenzene
Concen: 16.373 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047723.D
Acq: 23 Sep 2025 11:15

Tgt Ion:180 Resp: 46461

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.6	142.8
145	34.1	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047737.D
Acq On : 23 Sep 2025 16:34
Operator : JC/MD
Sample : Q3097-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Quant Time: Sep 24 01:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

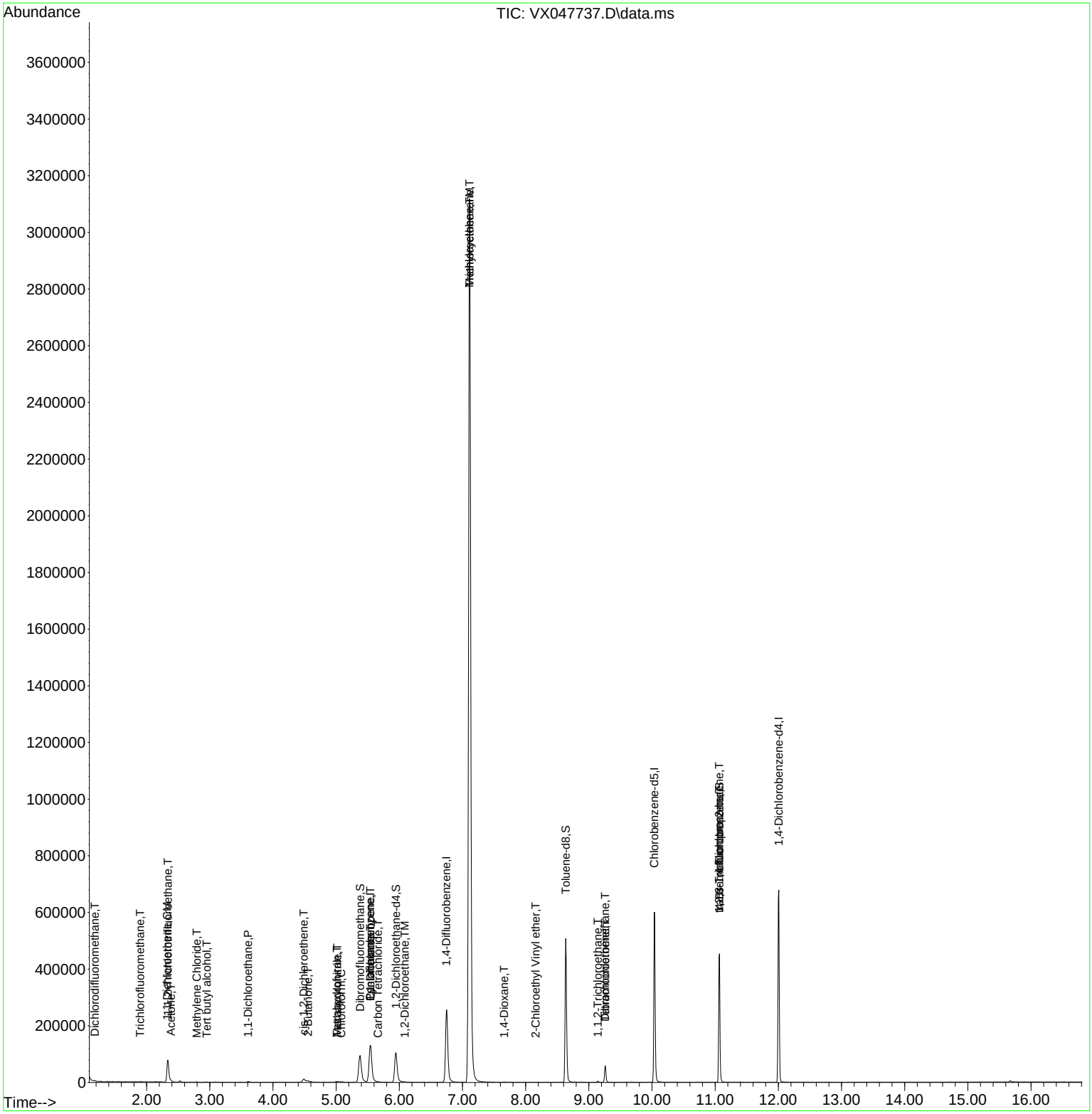
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.538	168	133765	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.745	114	281791	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.037	117	275514	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141902	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.946	65	110502	51.898	ug/l		0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.800%				
35) Dibromofluoromethane	5.379	113	91324	48.324	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.640%				
50) Toluene-d8	8.635	98	305233	46.677	ug/l		0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 93.360%				
62) 4-Bromofluorobenzene	11.067	95	133881	53.946	ug/l		0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.179	85	474	0.342	ug/l		89
7) Trichlorofluoromethane	1.898	101	657	0.248	ug/l		92
9) 1,1,2-Trichlorotrifluo...	2.337	101	26053	16.839	ug/l		99
11) Tert butyl alcohol	2.953	59	130	0.548	ug/l	#	72
12) 1,1-Dichloroethene	2.325	96	11018	6.933	ug/l		94
16) Acetone	2.386	43	3716	4.014	ug/l		90
20) Methylene Chloride	2.794	84	659	0.336	ug/l	#	51
24) 1,1-Dichloroethane	3.605	63	2849	0.843	ug/l	#	94
25) 2-Butanone	4.556	43	1046	0.906	ug/l	#	48
27) cis-1,2-Dichloroethene	4.489	96	8455	4.035	ug/l		88
29) Tetrahydrofuran	5.013	42	2676	3.852	ug/l	#	73
30) Chloroform	5.080	83	1745	0.511	ug/l	#	81
31) Cyclohexane	5.544	56	2857	1.015	ug/l	#	1
36) 1,1-Dichloropropene	5.544	75	11710	4.240	ug/l	#	47
38) Carbon Tetrachloride	5.660	117	797	0.266	ug/l	#	67
39) Methylcyclohexane	7.111	83	13350	4.259	ug/l	#	1
41) Methacrylonitrile	5.019	41	1586	1.039	ug/l	#	37
42) 1,2-Dichloroethane	6.086	62	667	0.209	ug/l	#	76
44) Trichloroethene	7.111	130	1292636	637.467	ug/l		96
49) 1,4-Dioxane	7.659	88	560	22.940	ug/l	#	73
55) 1,1,2-Trichloroethane	9.141	97	999	0.501	ug/l		91
58) 2-Chloroethyl Vinyl ether	8.159	63	50	7.926	ug/l	#	47
60) Dibromochloromethane	9.257	129	11638	5.069	ug/l	#	11
64) Tetrachloroethene	9.257	164	11467	6.385	ug/l		99
76) 1,2,3-Trichloropropane	11.061	75	68263	23.760	ug/l	#	39
81) trans-1,4-Dichloro-2-b...	11.061	75	68263	60.590	ug/l	#	8

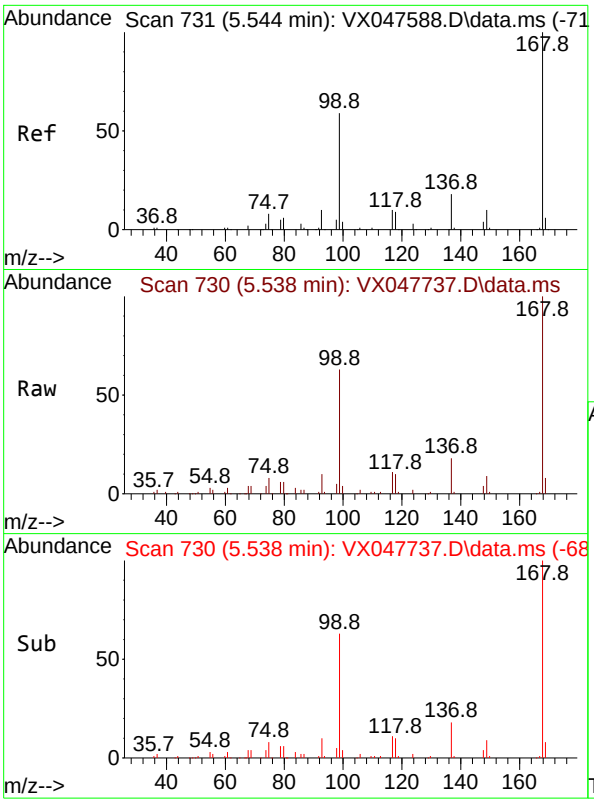
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047737.D
Acq On : 23 Sep 2025 16:34
Operator : JC/MD
Sample : Q3097-19
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Quant Time: Sep 24 01:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



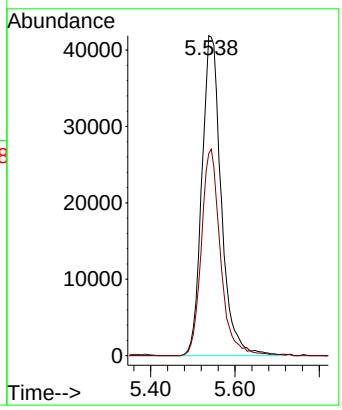


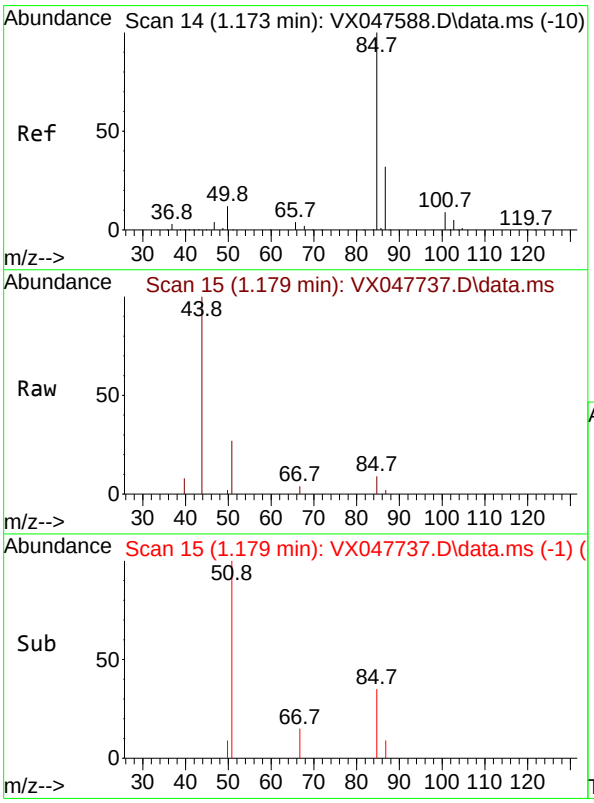
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion:168 Resp: 133765

Ion	Ratio	Lower	Upper
168	100		
99	63.2	48.8	73.2

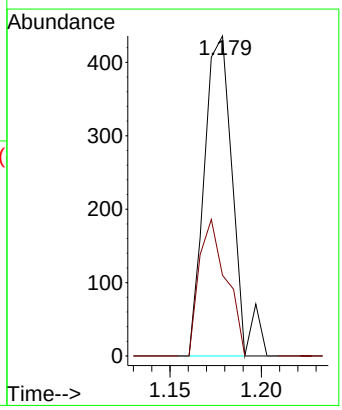


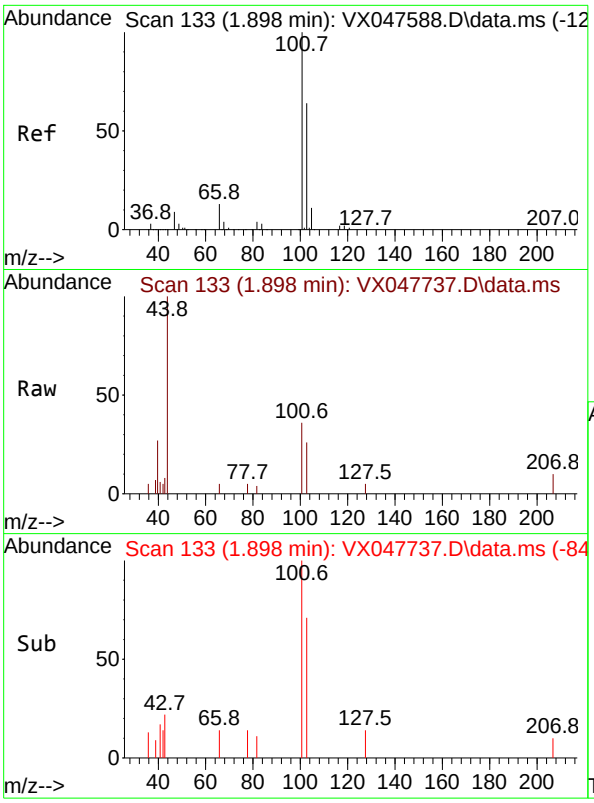


#2
Dichlorodifluoromethane
Concen: 0.342 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 85 Resp: 474

Ion	Ratio	Lower	Upper
85	100		
87	25.2	15.8	47.3



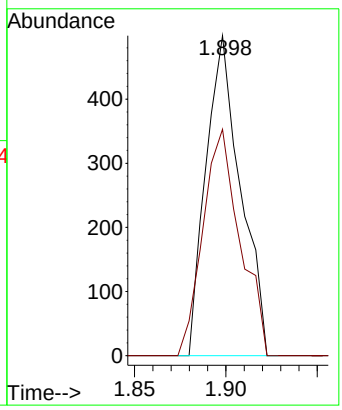


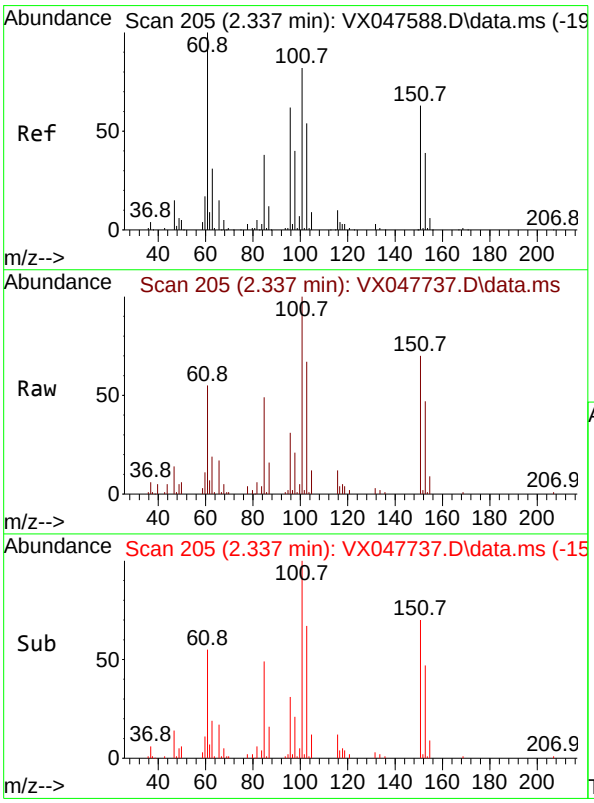
#7
Trichlorofluoromethane
Concen: 0.248 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion:101 Resp: 657

Ion	Ratio	Lower	Upper
101	100		
103	70.7	51.4	77.2

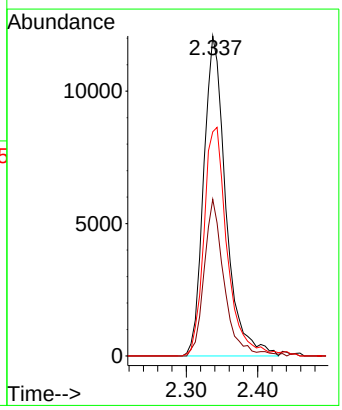


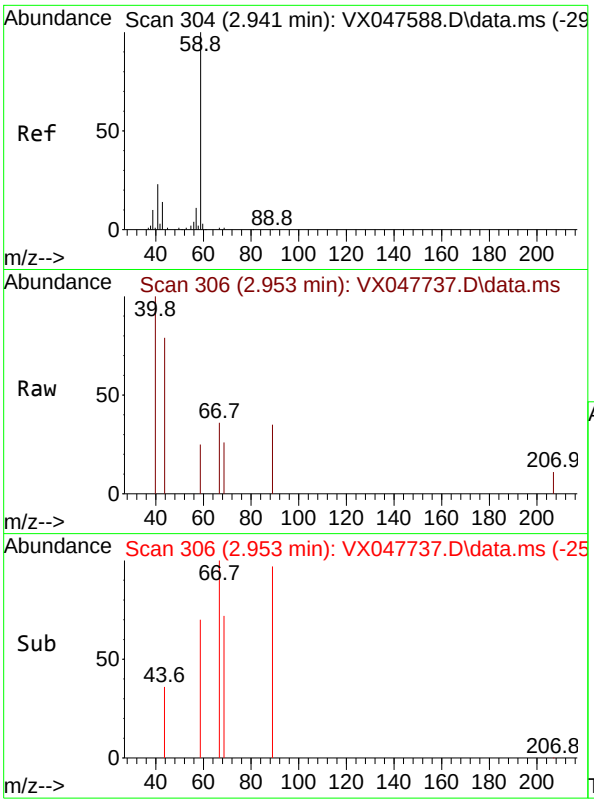


#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.839 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:101 Resp: 26053

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	75.5	59.4	89.0



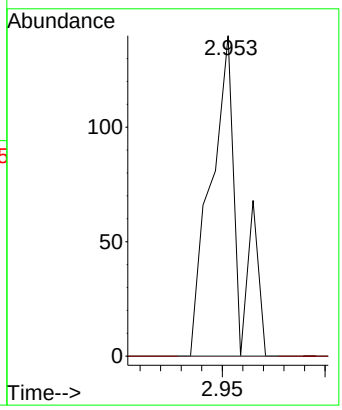


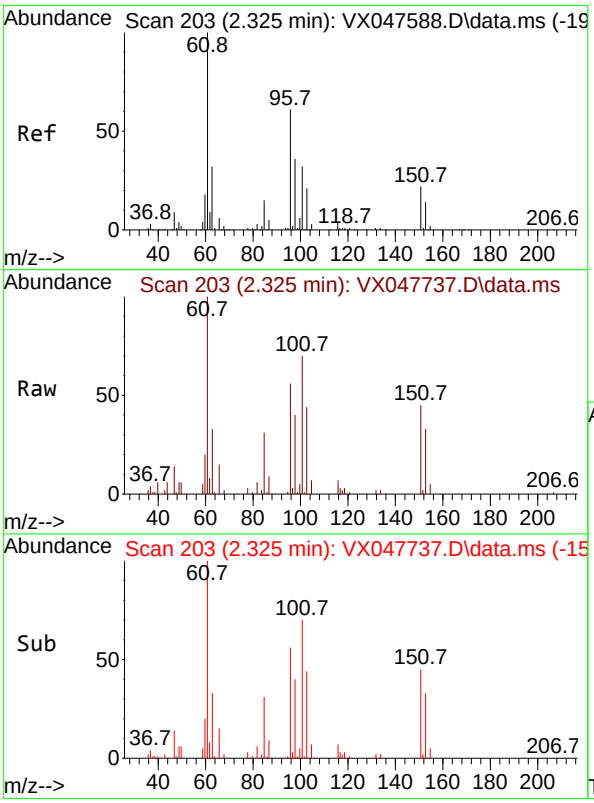
#11
Tert butyl alcohol
Concen: 0.548 ug/l
RT: 2.953 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 59 Resp: 130

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#

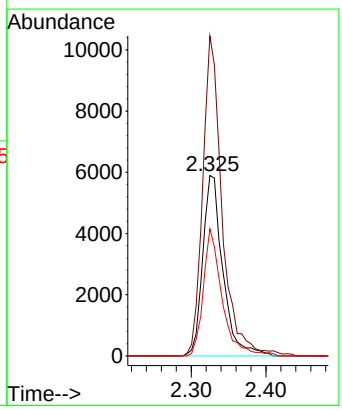


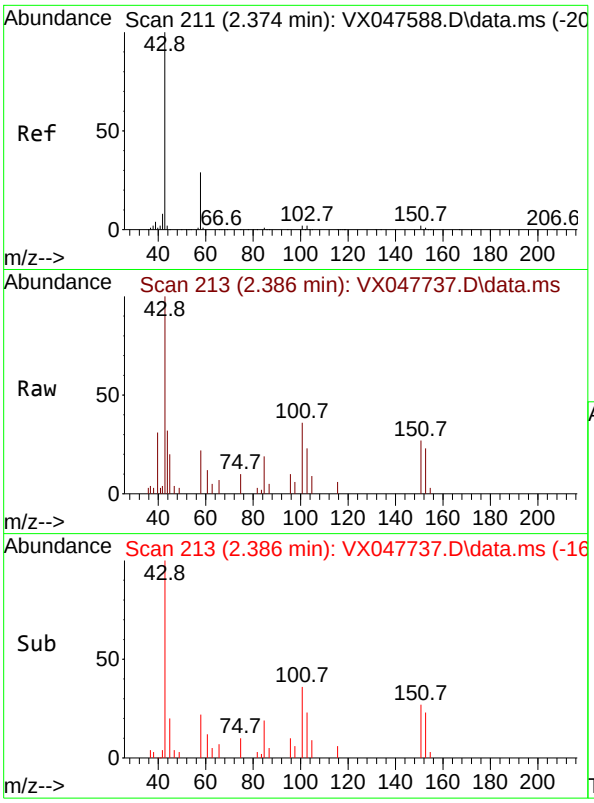


#12
1,1-Dichloroethene
Concen: 6.933 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 96 Resp: 11018

Ion	Ratio	Lower	Upper
96	100		
61	169.0	131.0	196.6
98	67.2	47.7	71.5



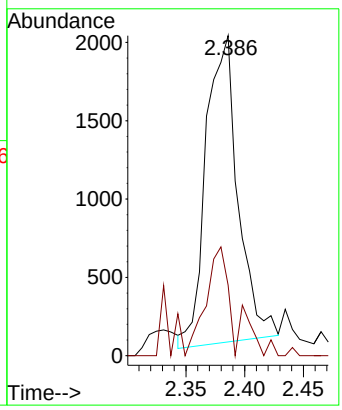


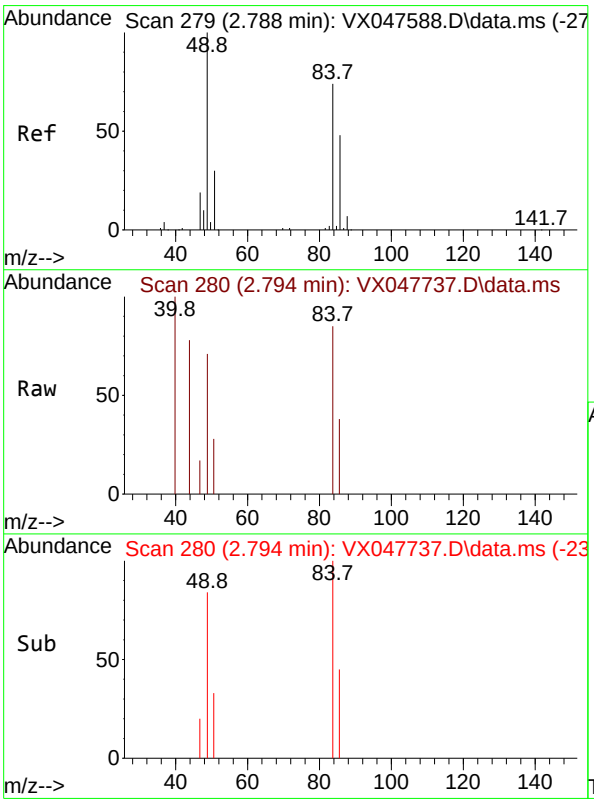
#16
Acetone
Concen: 4.014 ug/l
RT: 2.386 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 43 Resp: 3716

Ion	Ratio	Lower	Upper
43	100		
58	23.7	23.4	35.0

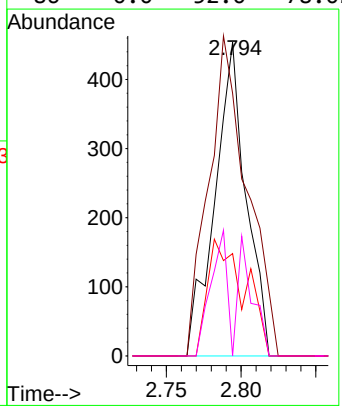


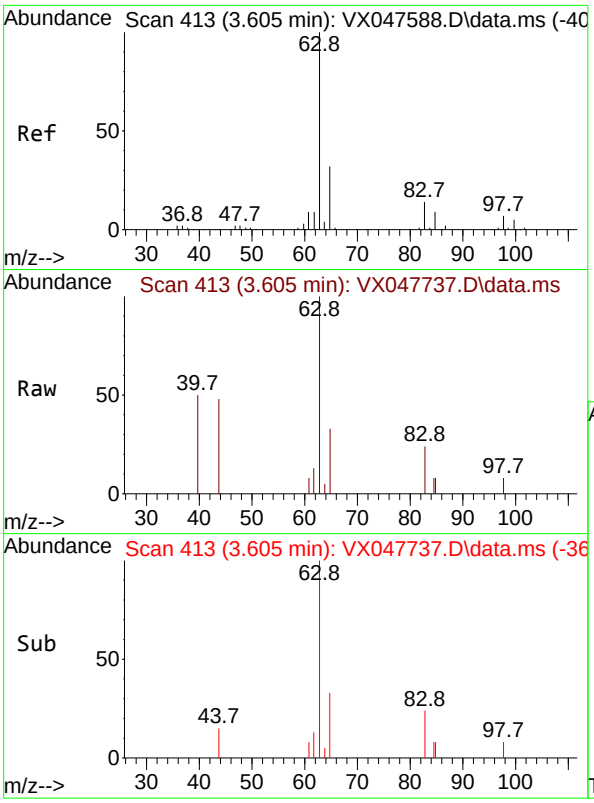


#20
Methylene Chloride
Concen: 0.336 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 84 Resp: 659

Ion	Ratio	Lower	Upper
84	100		
49	83.7	108.6	162.8#
51	32.6	32.6	48.8
86	0.0	52.0	78.0#



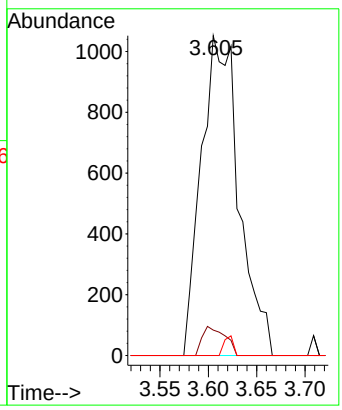


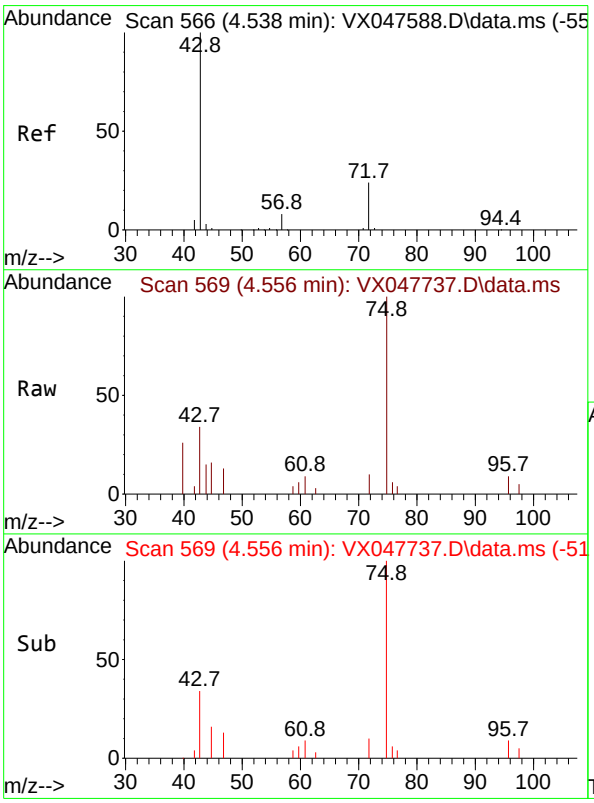
#24
1,1-Dichloroethane
Concen: 0.843 ug/l
RT: 3.605 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 63 Resp: 2849

Ion	Ratio	Lower	Upper
63	100		
98	8.0	3.8	11.2
100	0.0	2.3	6.9#

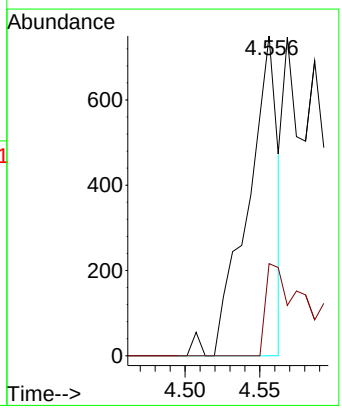


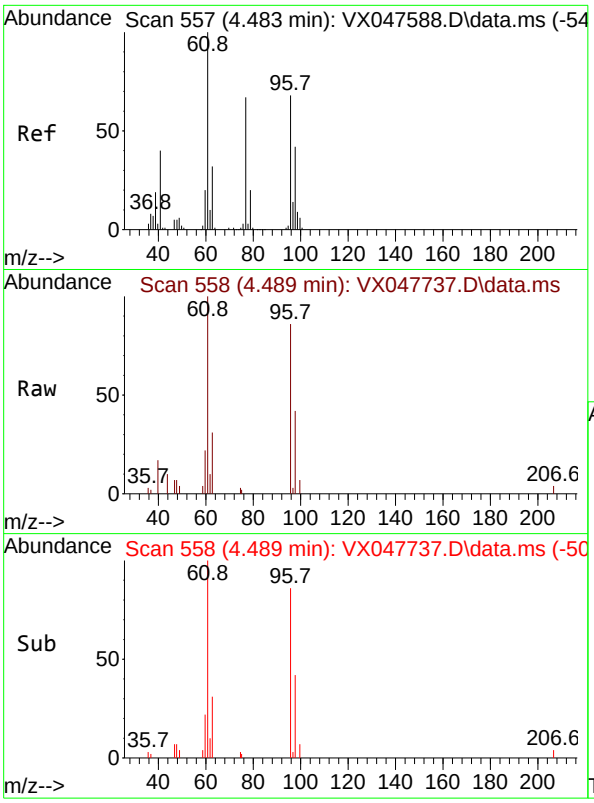


#25
2-Butanone
Concen: 0.906 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.018 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 43 Resp: 1046

Ion	Ratio	Lower	Upper
43	100		
72	51.2	20.1	30.1#



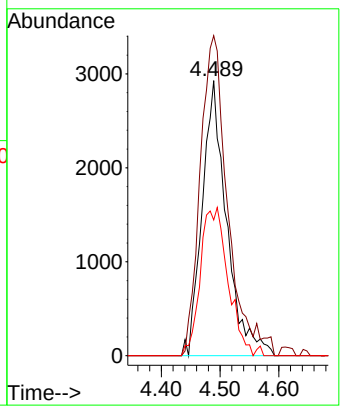


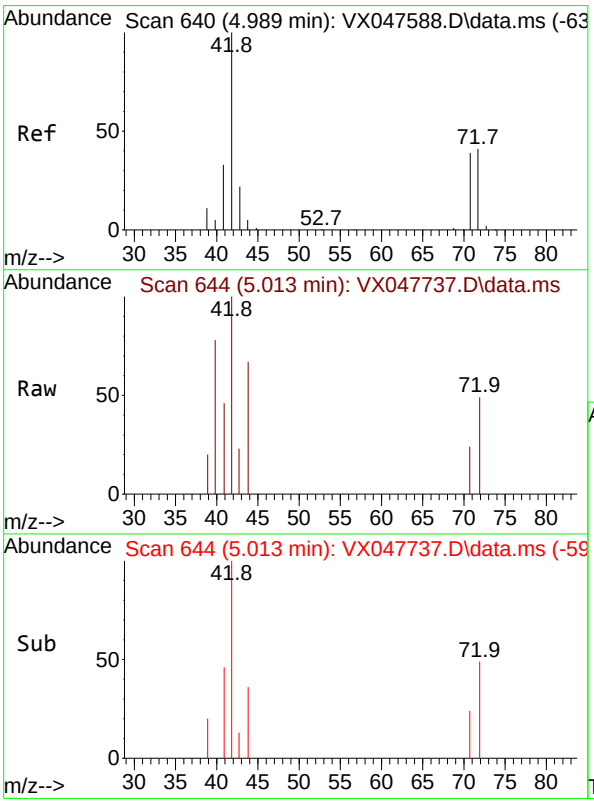
#27
cis-1,2-Dichloroethene
Concen: 4.035 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 96 Resp: 8455

Ion	Ratio	Lower	Upper
96	100		
61	131.2	0.0	303.2
98	60.6	0.0	127.8

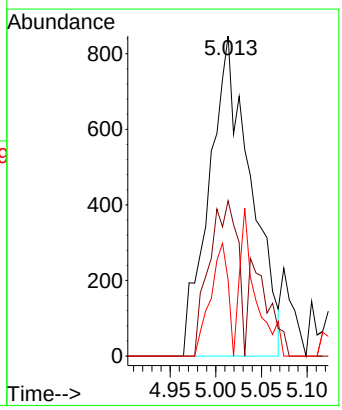


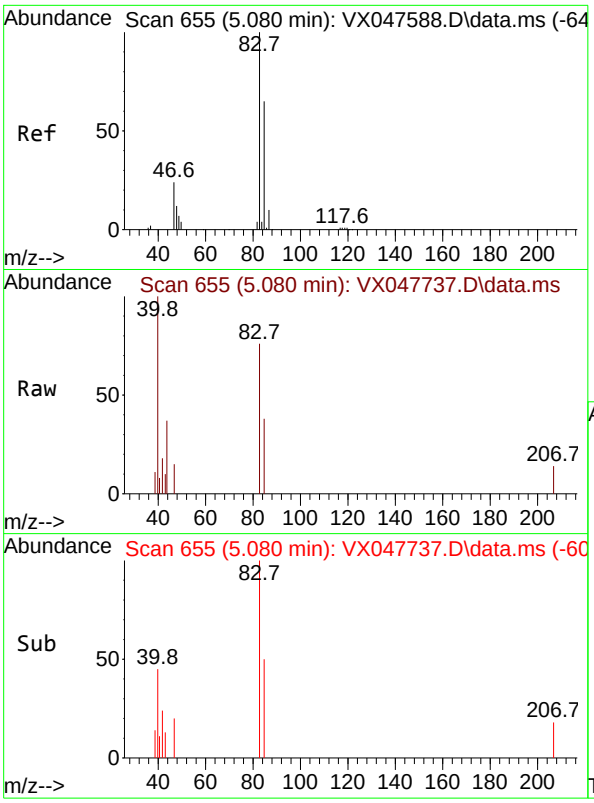


#29
Tetrahydrofuran
Concen: 3.852 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.024 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 42 Resp: 2676

Ion	Ratio	Lower	Upper
42	100		
72	33.2	34.2	51.2#
71	14.9	31.9	47.9#



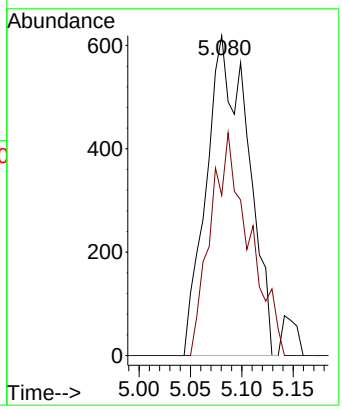


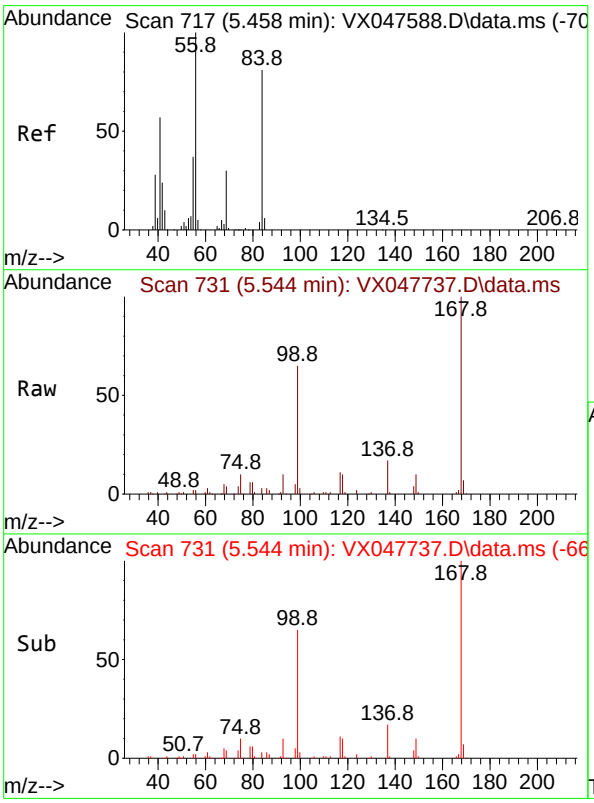
#30
Chloroform
Concen: 0.511 ug/l
RT: 5.080 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 83 Resp: 1745

Ion	Ratio	Lower	Upper
83	100		
85	50.1	51.8	77.6#

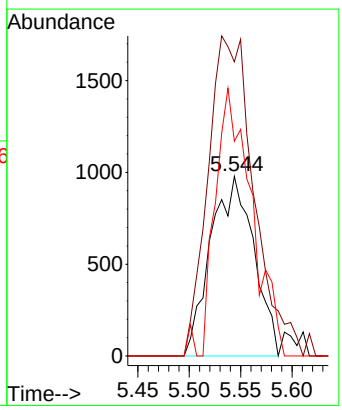


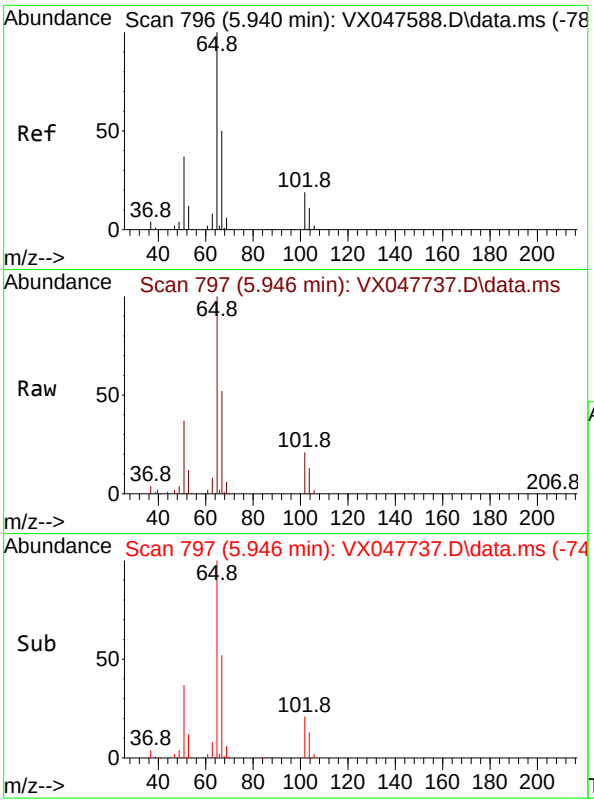


#31
Cyclohexane
Concen: 1.015 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.085 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 56 Resp: 2857

Ion	Ratio	Lower	Upper
56	100		
69	163.8	23.8	35.8#
84	119.6	64.6	97.0#



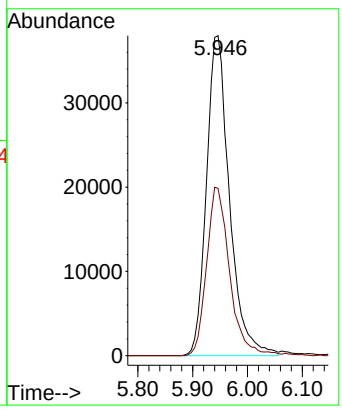


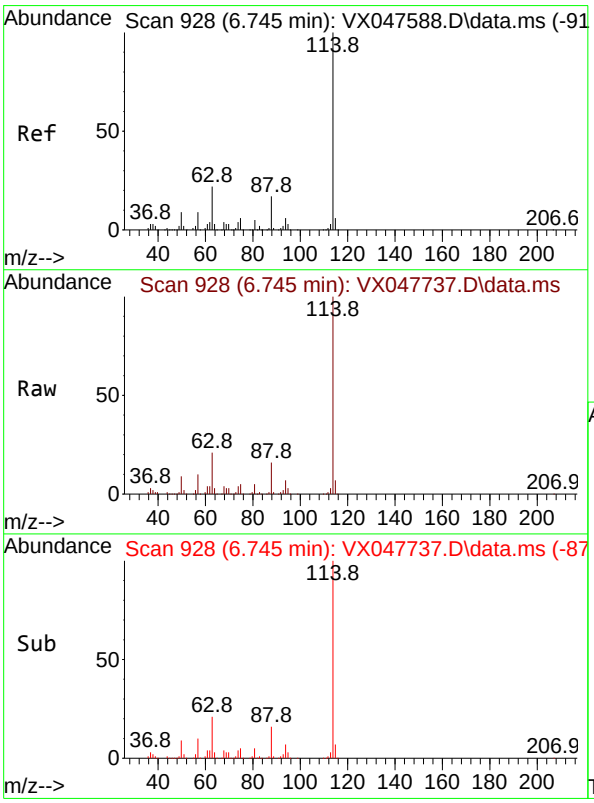
#33
1,2-Dichloroethane-d4
Concen: 51.898 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 65 Resp: 110502

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	103.0

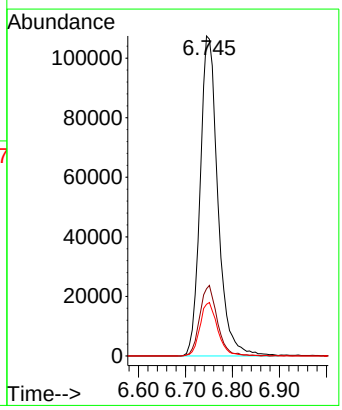


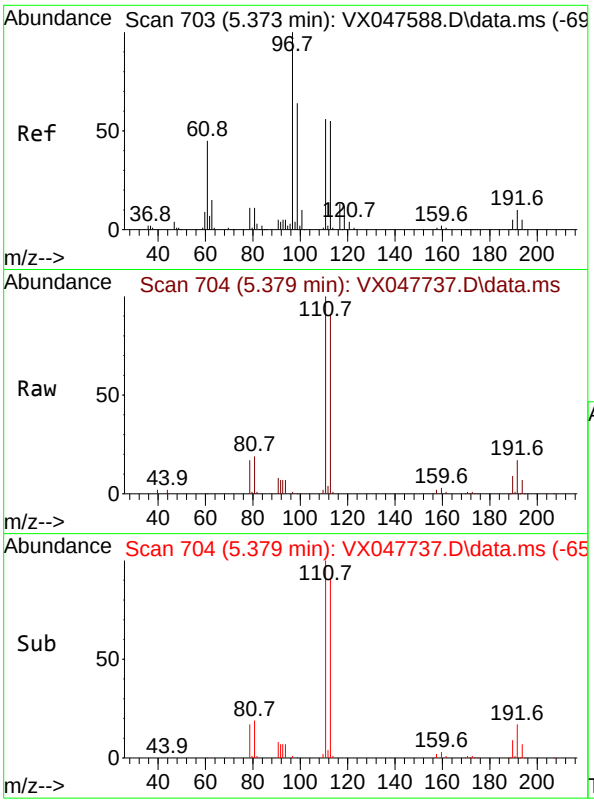


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:114 Resp: 281791

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	44.0
88	16.1	0.0	34.2



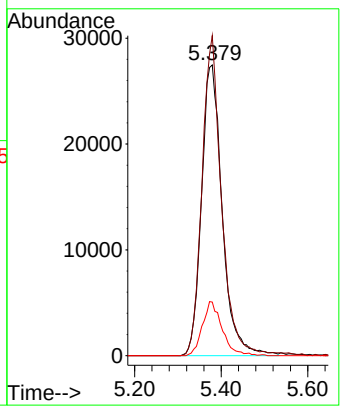


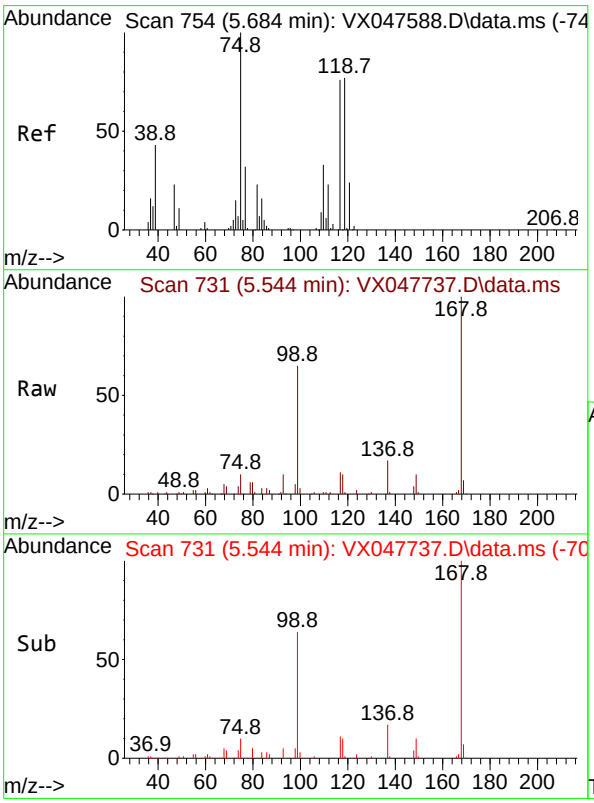
#35
Dibromofluoromethane
Concen: 48.324 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion:113 Resp: 91324

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.9	121.3
192	17.7	14.2	21.4

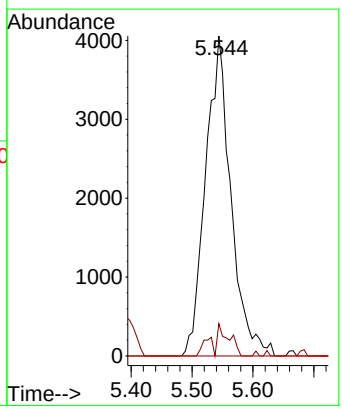


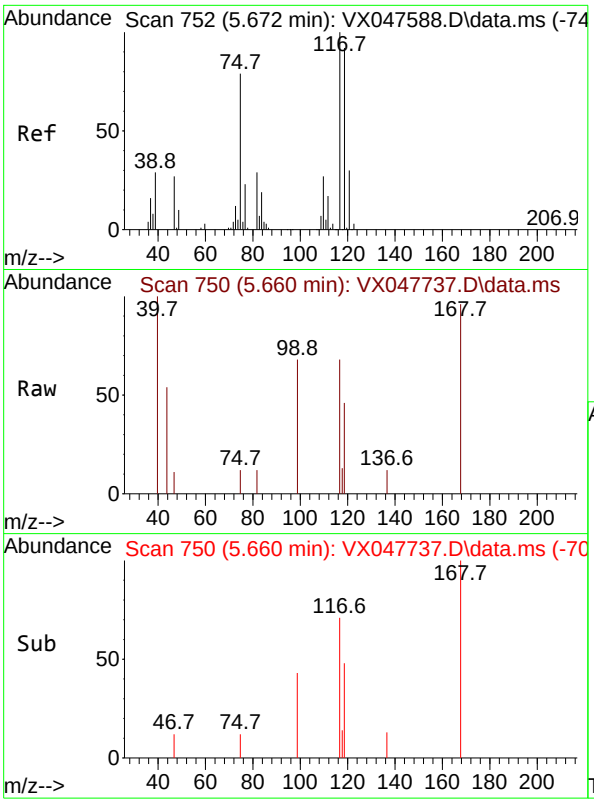


#36
1,1-Dichloropropene
Concen: 4.240 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 75 Resp: 11710

Ion	Ratio	Lower	Upper
75	100		
110	4.6	16.7	50.1#
77	0.0	24.3	36.5#



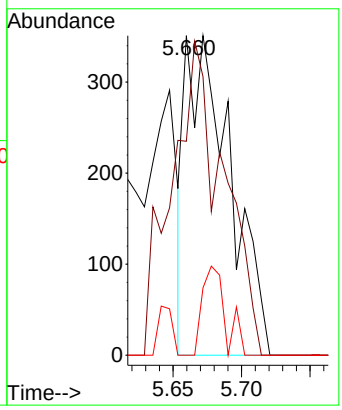


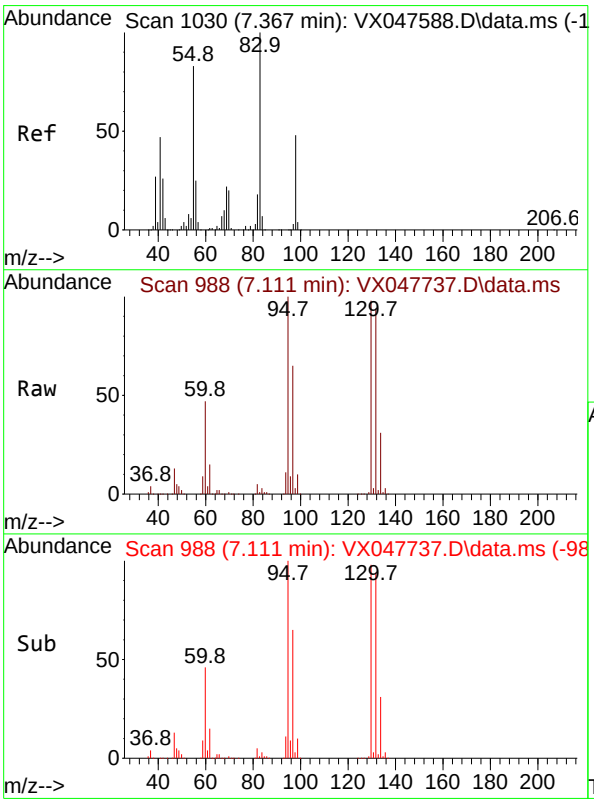
#38
Carbon Tetrachloride
Concen: 0.266 ug/l
RT: 5.660 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion:117 Resp: 797

Ion	Ratio	Lower	Upper
117	100		
119	67.0	73.4	110.2#
121	0.0	23.8	35.6#

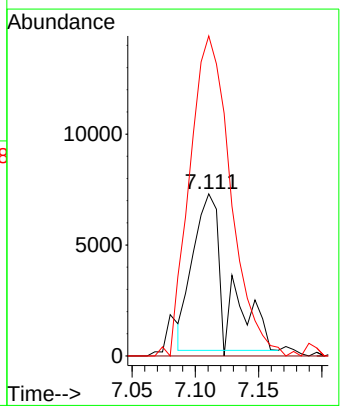


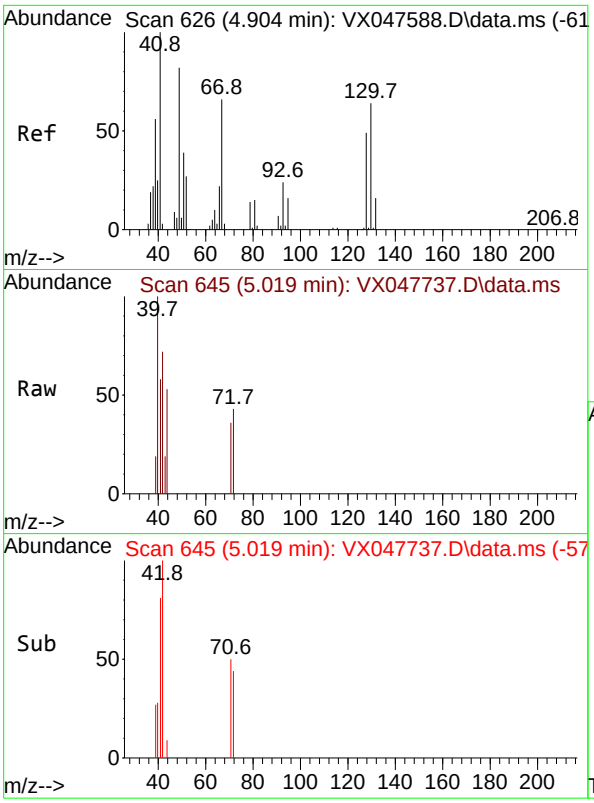


#39
Methylcyclohexane
Concen: 4.259 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.256 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 83 Resp: 13350

Ion	Ratio	Lower	Upper
83	100		
55	0.0	66.4	99.6#
98	300.9	38.1	57.1#



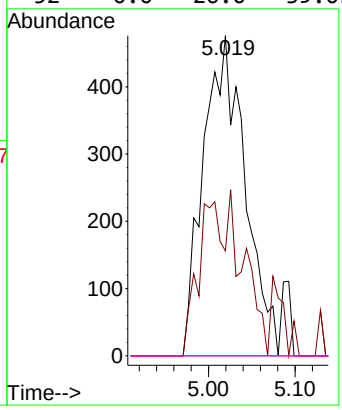


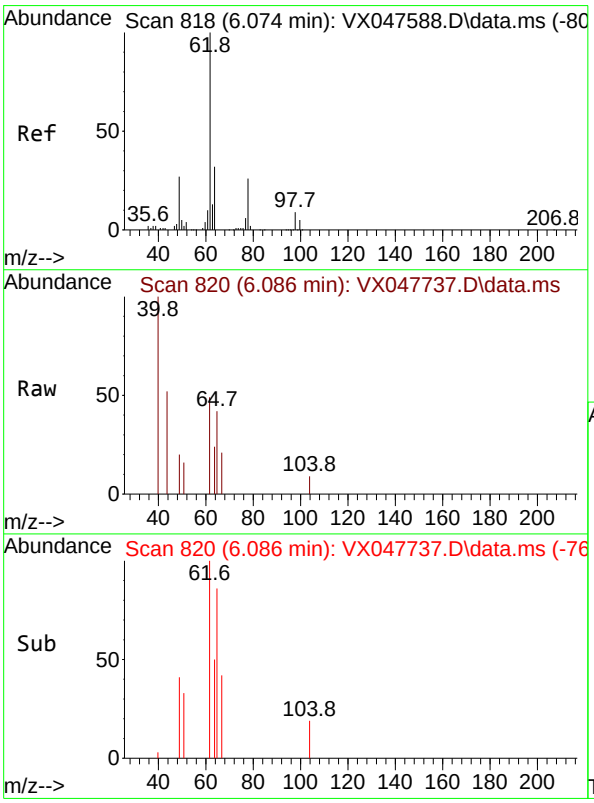
#41
Methacrylonitrile
Concen: 1.039 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.116 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 41 Resp: 1586

Ion	Ratio	Lower	Upper
41	100		
39	29.6	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#

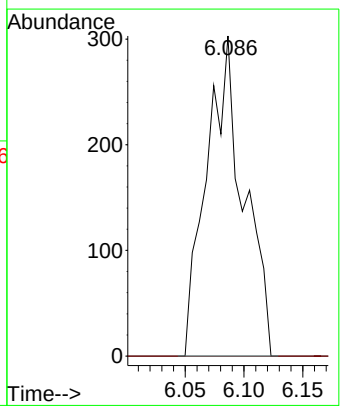


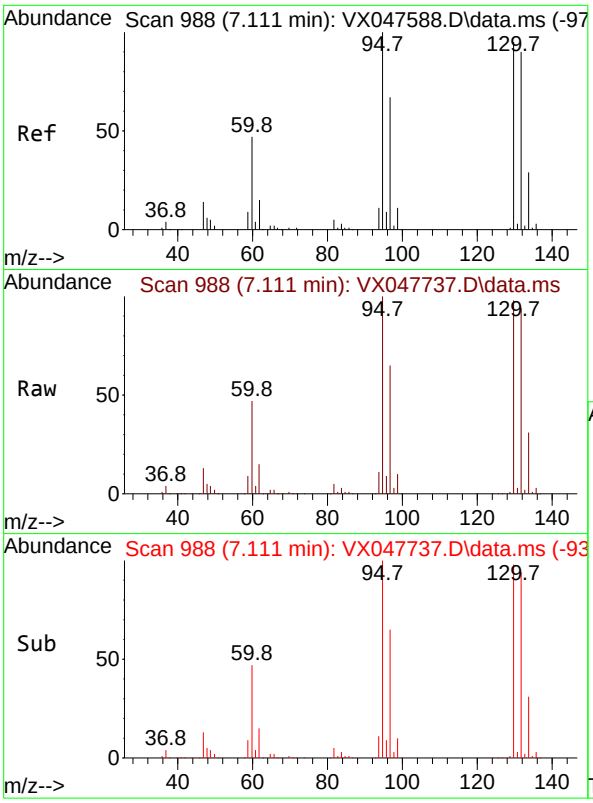


#42
1,2-Dichloroethane
Concen: 0.209 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 62 Resp: 667

Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.0



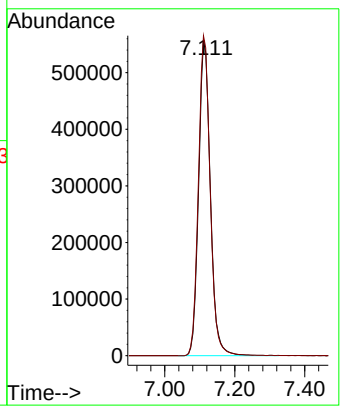


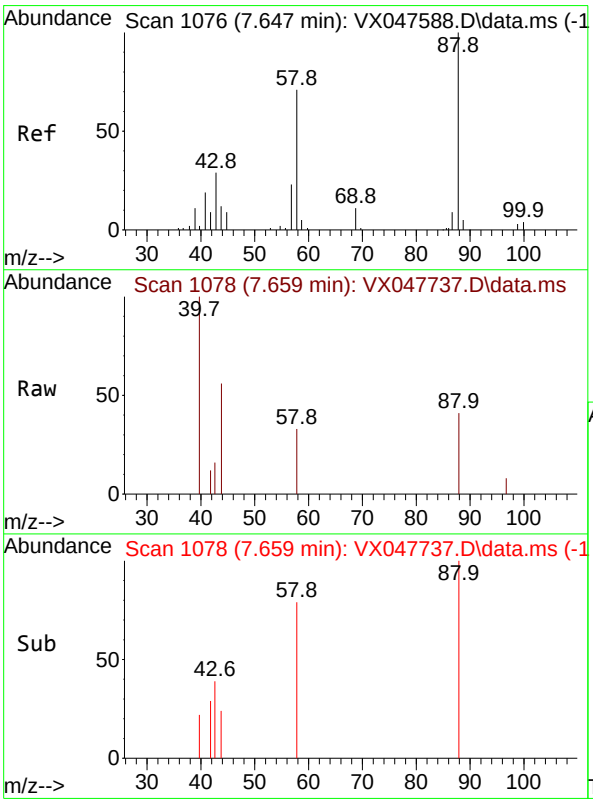
#44
Trichloroethene
Concen: 637.467 ug/l
RT: 7.111 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion:130 Resp: 1292636

Ion	Ratio	Lower	Upper
130	100		
95	101.7	0.0	210.8

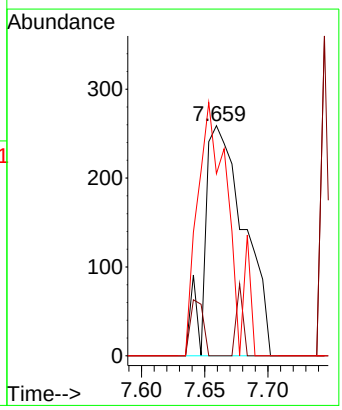


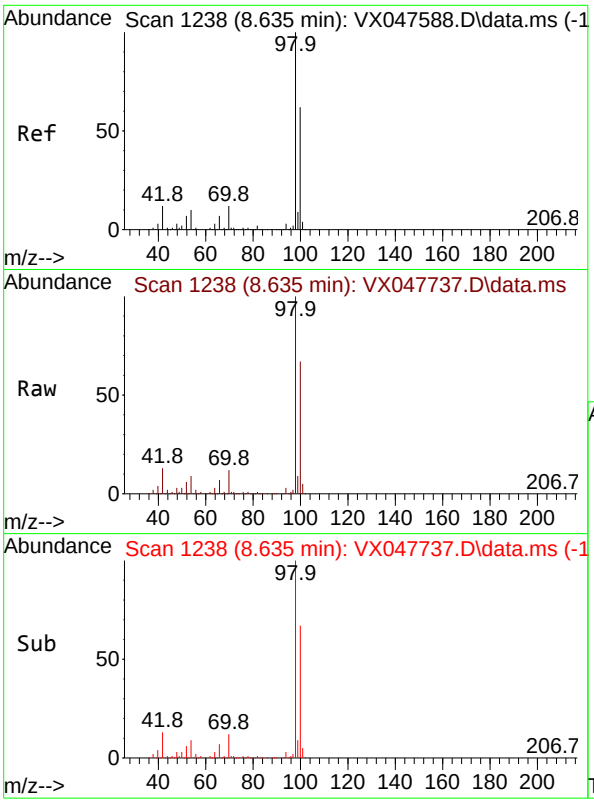


#49
1,4-Dioxane
Concen: 22.940 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 88 Resp: 560

Ion	Ratio	Lower	Upper
88	100		
43	7.9	30.2	45.2#
58	87.9	59.5	89.3



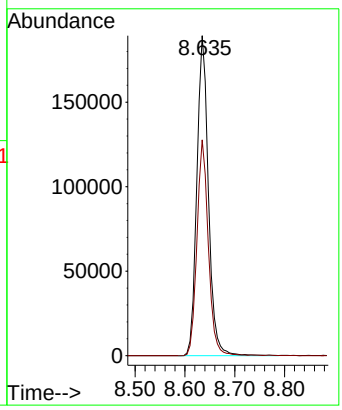


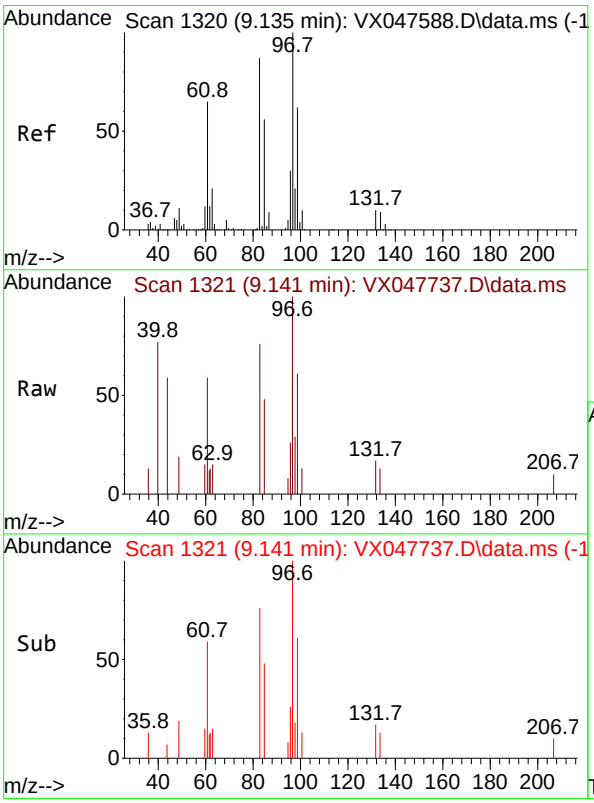
#50
Toluene-d8
Concen: 46.677 ug/l
RT: 8.635 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 98 Resp: 305233

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.0	79.4

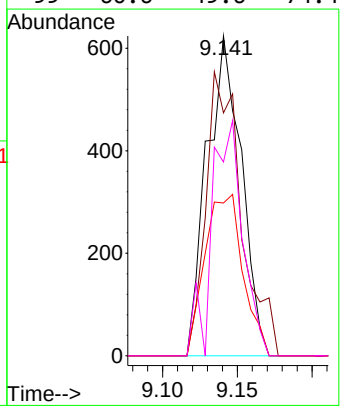


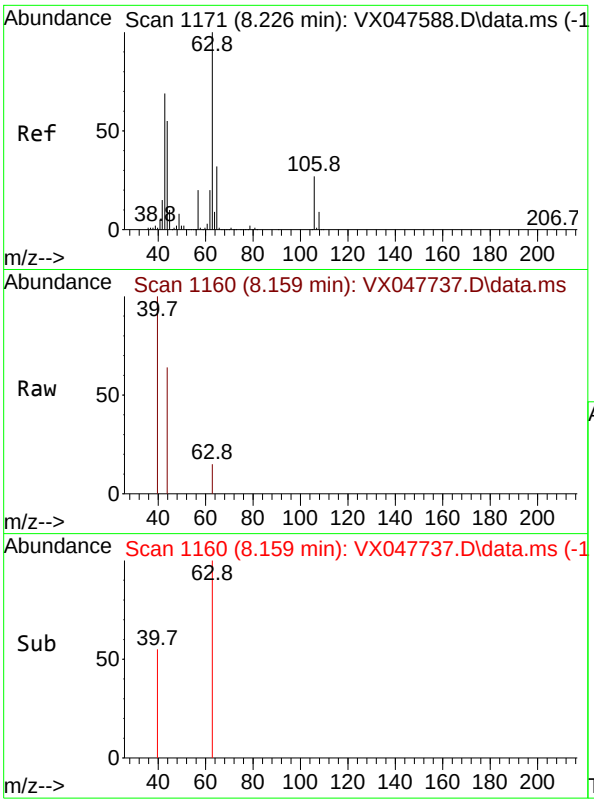


#55
1,1,2-Trichloroethane
Concen: 0.501 ug/l
RT: 9.141 min Scan# 1321
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 97 Resp: 999

Ion	Ratio	Lower	Upper
97	100		
83	76.0	69.6	104.4
85	47.8	45.0	67.6
99	60.6	49.6	74.4



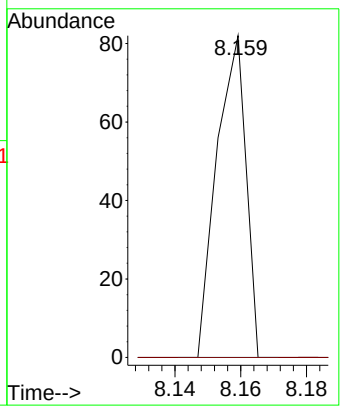


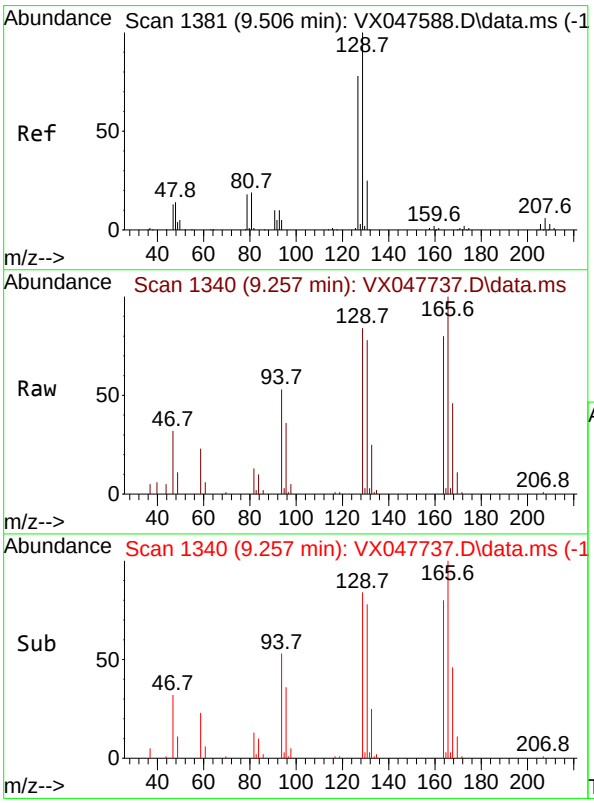
#58
2-Chloroethyl Vinyl ether
Concen: 7.926 ug/l
RT: 8.159 min Scan# 11
Delta R.T. -0.067 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 63 Resp: 50

Ion	Ratio	Lower	Upper
63	100		
106	0.0	21.9	32.9#

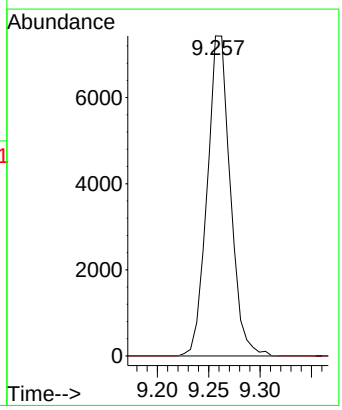


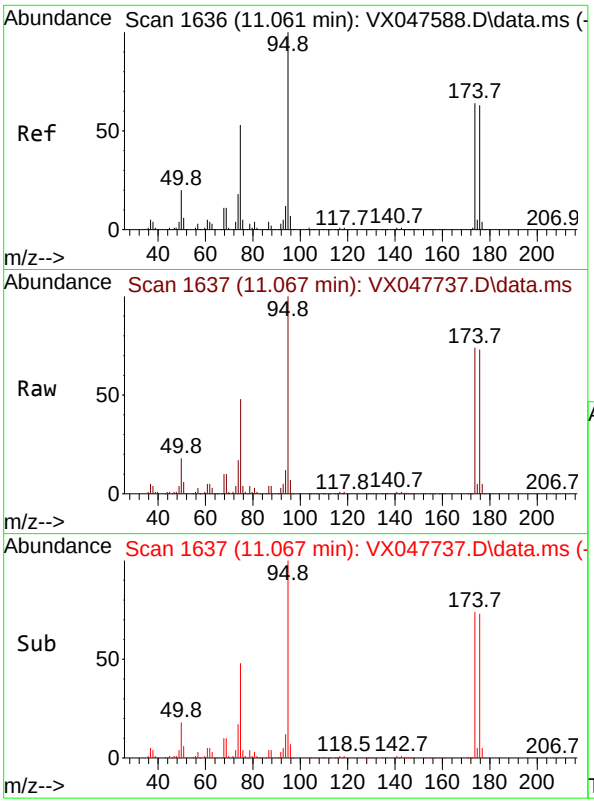


#60
Dibromochloromethane
Concen: 5.069 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. -0.250 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:129 Resp: 11638

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.4	115.2#



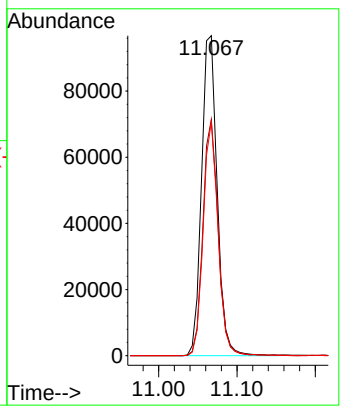


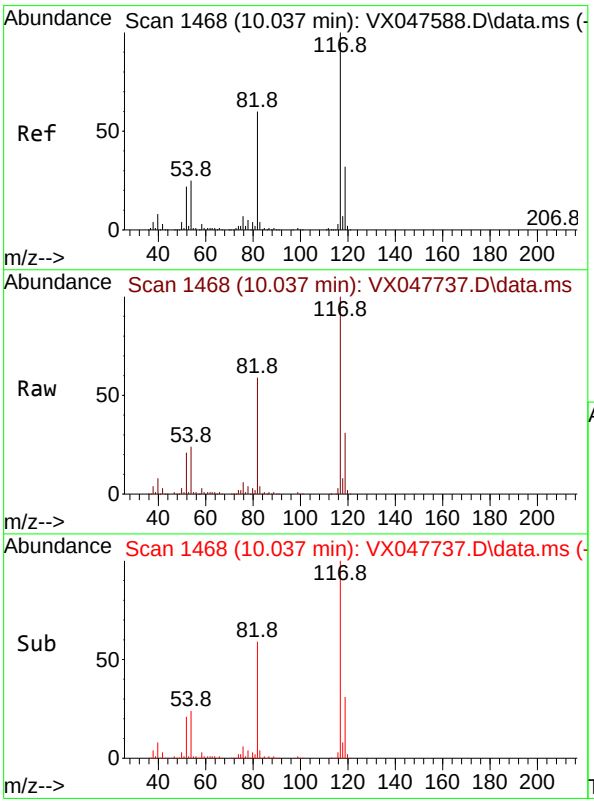
#62
4-Bromofluorobenzene
Concen: 53.946 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 95 Resp: 133881

Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	141.6
176	69.5	0.0	138.4

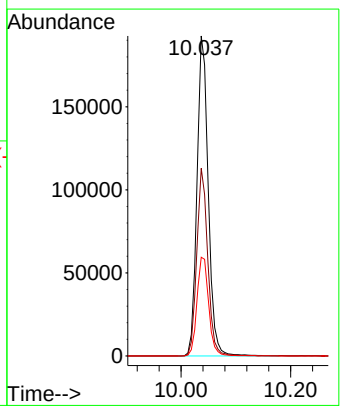


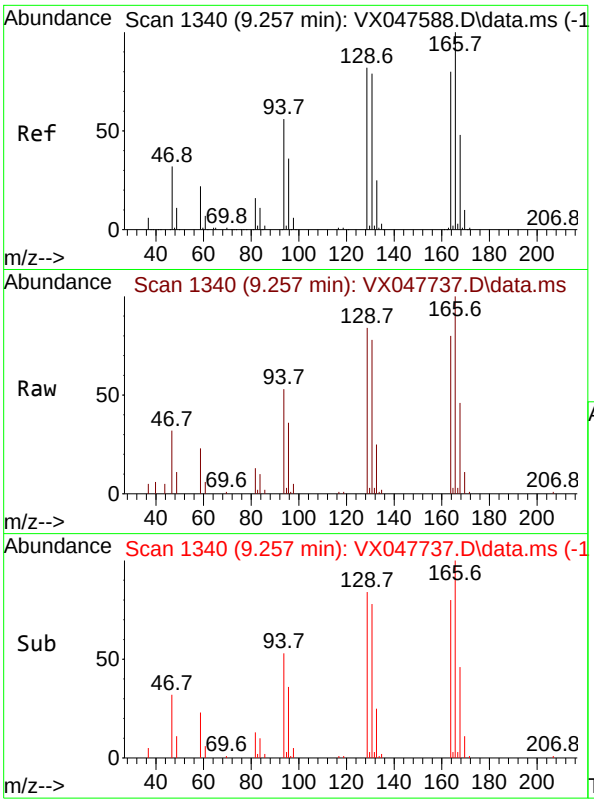


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:117 Resp: 275514

Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.8	71.6
119	30.8	25.2	37.8



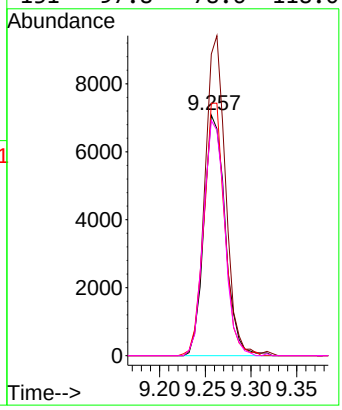


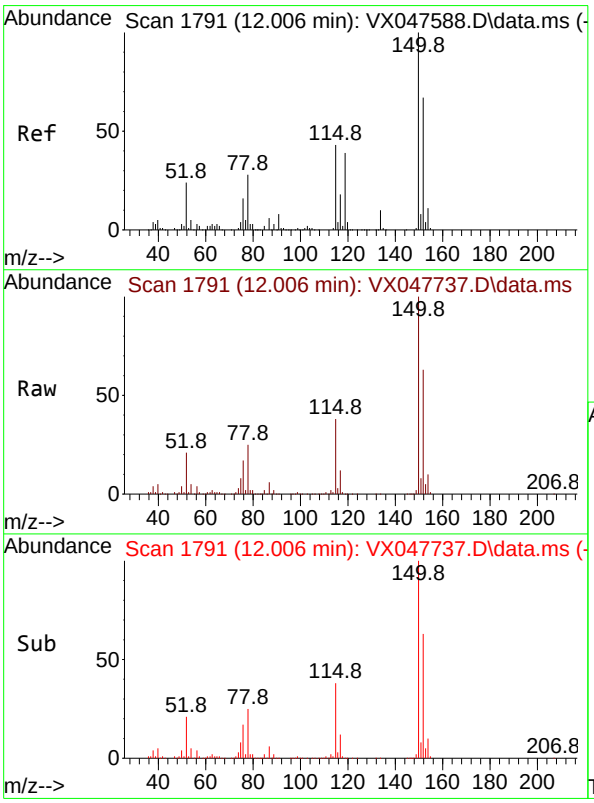
#64
Tetrachloroethene
Concen: 6.385 ug/l
RT: 9.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion:164 Resp: 11467

Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.2	150.2
129	105.0	81.8	122.6
131	97.8	78.6	118.0

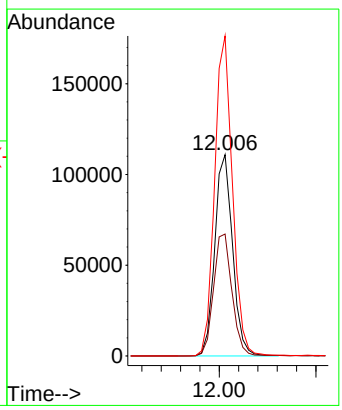


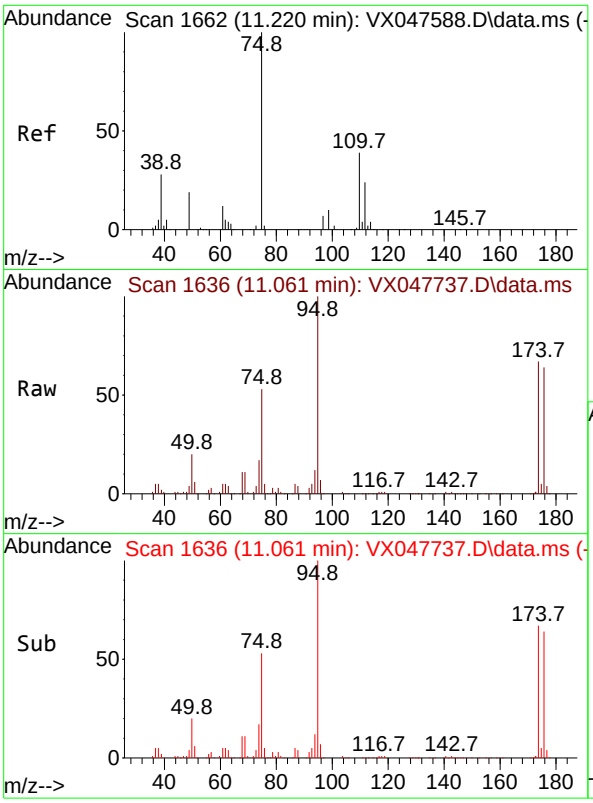


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion:152 Resp: 141902

Ion	Ratio	Lower	Upper
152	100		
115	62.7	44.9	134.5
150	158.8	0.0	352.0



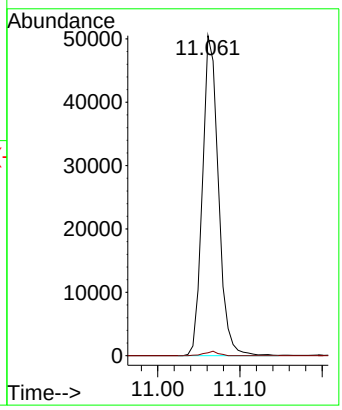


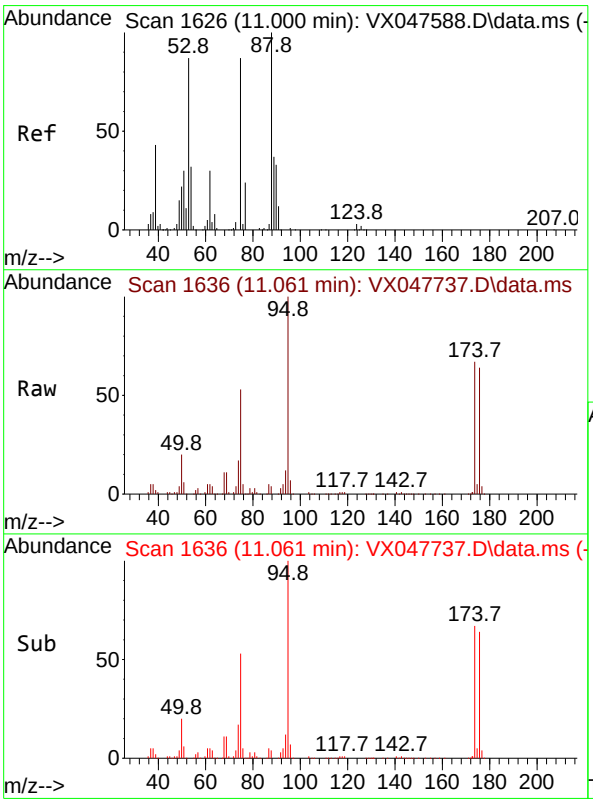
#76
1,2,3-Trichloropropane
Concen: 23.760 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.159 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20250912

Tgt Ion: 75 Resp: 68263

Ion	Ratio	Lower	Upper
75	100		
77	1.2	18.8	56.4#

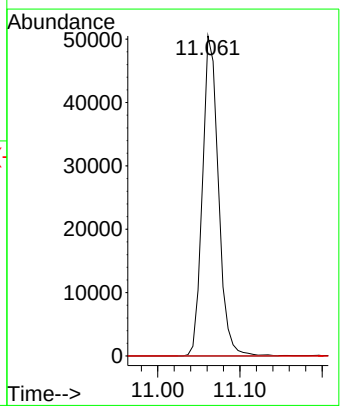




#81
trans-1,4-Dichloro-2-butene
Concen: 60.590 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047737.D
Acq: 23 Sep 2025 16:34

Tgt Ion: 75 Resp: 68263

Ion	Ratio	Lower	Upper
75	100		
53	0.0	83.4	125.2#
89	0.0	36.3	54.5#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047738.D
Acq On : 23 Sep 2025 16:55
Operator : JC/MD
Sample : Q3097-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Quant Time: Sep 24 01:36:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

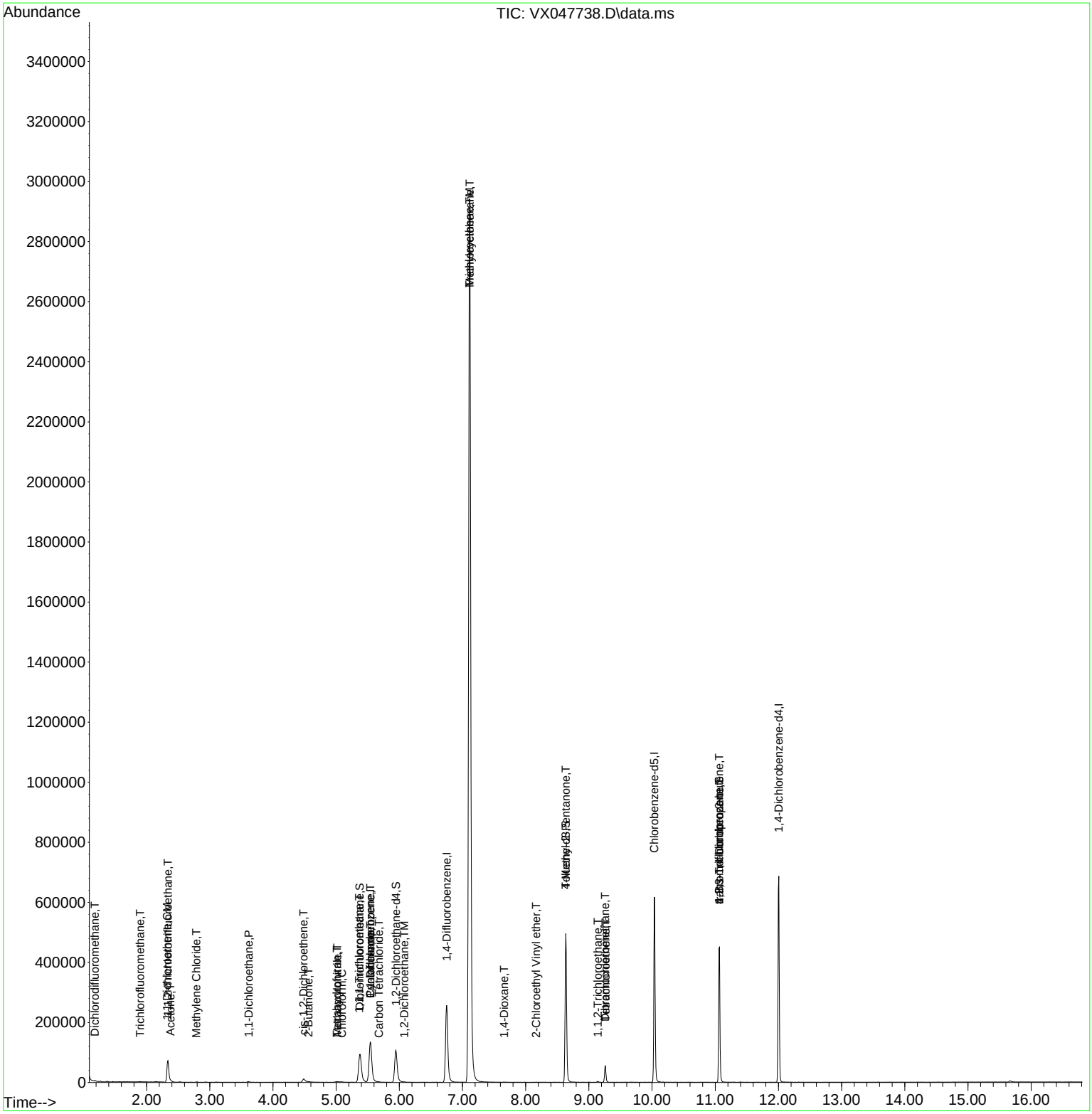
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134457	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	282290	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	281029	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141279	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	114450	53.476	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.960%			
35) Dibromofluoromethane	5.373	113	93741	49.515	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.020%			
50) Toluene-d8	8.635	98	307302	46.910	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 93.820%			
62) 4-Bromofluorobenzene	11.061	95	134047	53.917	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.840%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	461	0.331	ug/l #	43
7) Trichlorofluoromethane	1.898	101	594	0.223	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	24750	15.915	ug/l	99
12) 1,1-Dichloroethene	2.325	96	10897	6.821	ug/l	95
16) Acetone	2.380	43	2243	2.410	ug/l	98
20) Methylene Chloride	2.788	84	519	0.263	ug/l #	87
24) 1,1-Dichloroethane	3.617	63	3114	0.917	ug/l #	86
25) 2-Butanone	4.562	43	2232	1.923	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	8042	3.818	ug/l	86
29) Tetrahydrofuran	5.013	42	1628	2.331	ug/l #	67
30) Chloroform	5.093	83	1637	0.477	ug/l	88
31) Cyclohexane	5.544	56	2952	1.044	ug/l #	1
32) 1,1,1-Trichloroethane	5.367	97	796	0.273	ug/l #	34
36) 1,1-Dichloropropene	5.544	75	11107	4.015	ug/l #	51
38) Carbon Tetrachloride	5.678	117	955	0.318	ug/l #	55
39) Methylcyclohexane	7.117	83	14221	4.529	ug/l #	1
41) Methacrylonitrile	5.019	41	1679	1.098	ug/l #	36
42) 1,2-Dichloroethane	6.080	62	691	0.216	ug/l #	76
44) Trichloroethene	7.110	130	1228197	604.618	ug/l	95
49) 1,4-Dioxane	7.659	88	746	30.506	ug/l	91
51) 4-Methyl-2-Pentanone	8.635	43	1473	0.547	ug/l #	1
55) 1,1,2-Trichloroethane	9.141	97	1061	0.532	ug/l #	73
58) 2-Chloroethyl Vinyl ether	8.165	63	87	7.951	ug/l #	47
60) Dibromochloromethane	9.256	129	10706	4.655	ug/l #	11
64) Tetrachloroethene	9.262	164	10589	5.780	ug/l	92
76) 1,2,3-Trichloropropane	11.061	75	68434	23.924	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	68434	61.010	ug/l #	8

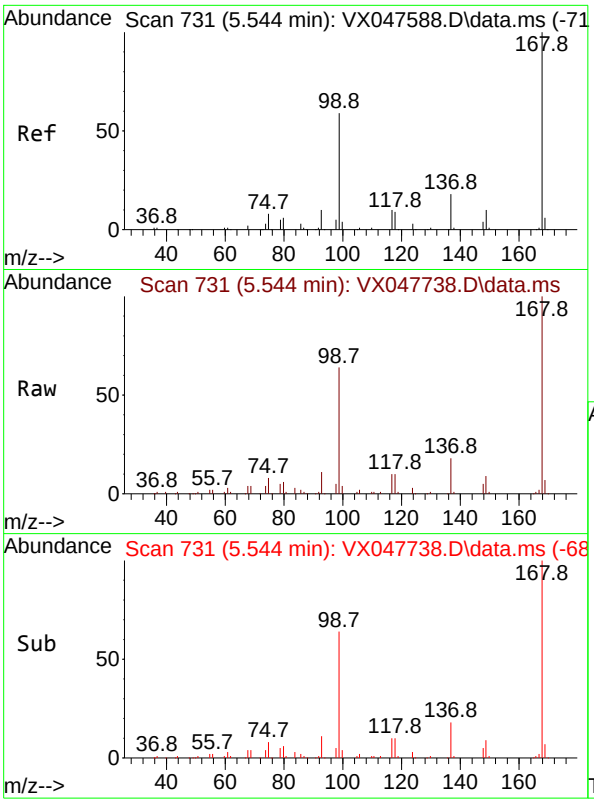
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047738.D
Acq On : 23 Sep 2025 16:55
Operator : JC/MD
Sample : Q3097-20
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Quant Time: Sep 24 01:36:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



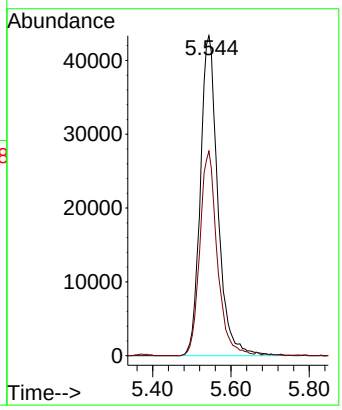


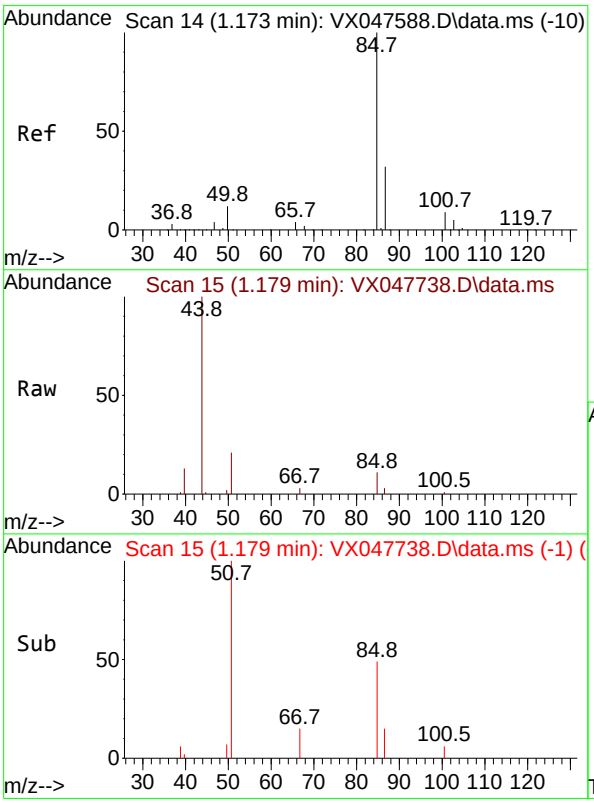
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion:168 Resp: 134457

Ion	Ratio	Lower	Upper
168	100		
99	63.9	48.8	73.2

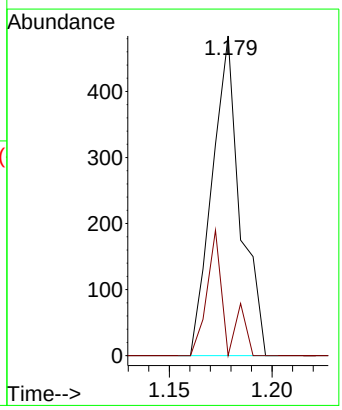


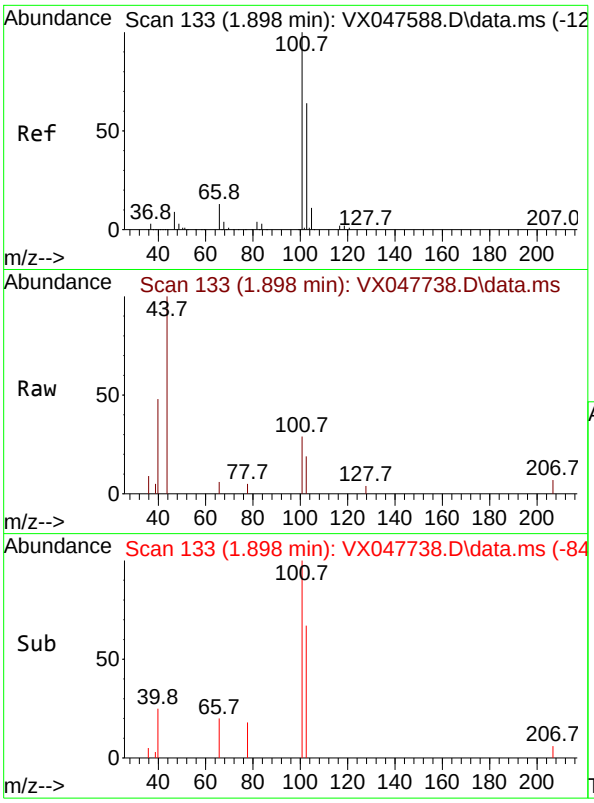


#2
Dichlorodifluoromethane
Concen: 0.331 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 85 Resp: 461

Ion	Ratio	Lower	Upper
85	100		
87	0.0	15.8	47.3#



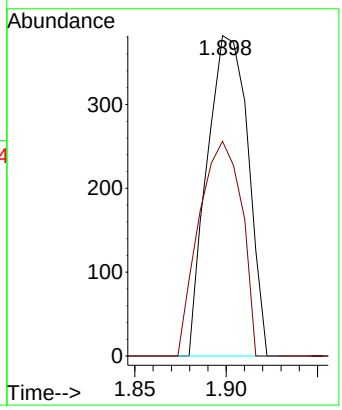


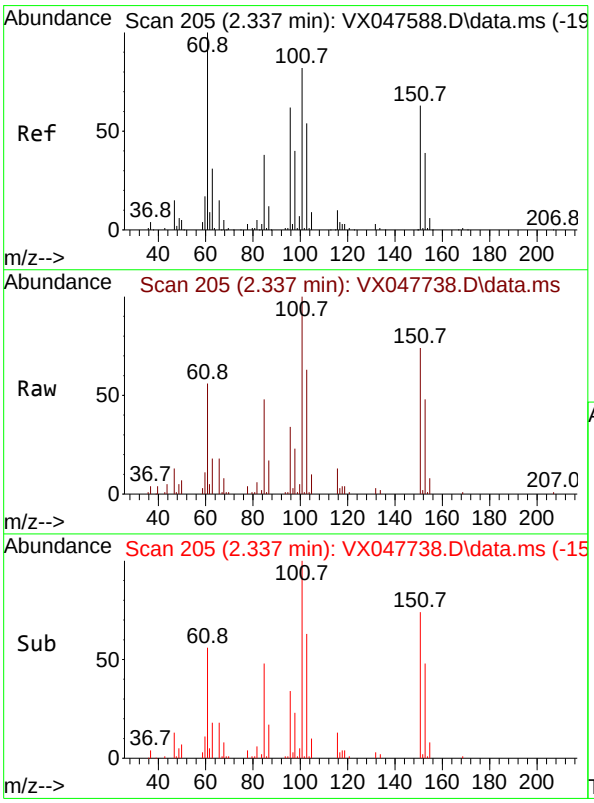
#7
Trichlorofluoromethane
Concen: 0.223 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion:101 Resp: 594

Ion	Ratio	Lower	Upper
101	100		
103	67.0	51.4	77.2

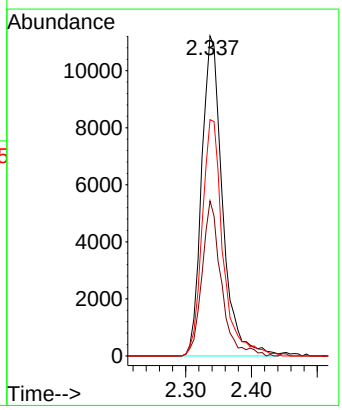


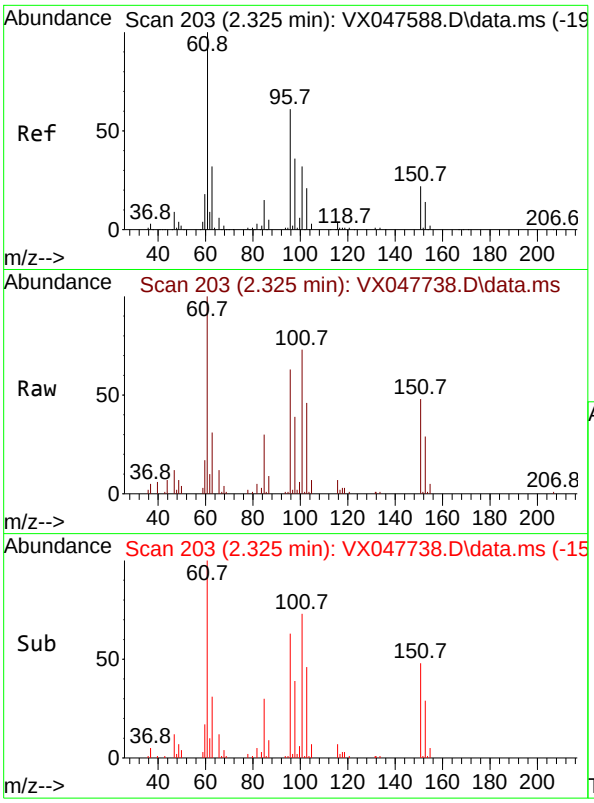


#9
1,1,2-Trichlorotrifluoroethane
Concen: 15.915 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:101 Resp: 24750

Ion	Ratio	Lower	Upper
101	100		
85	44.7	35.5	53.3
151	73.5	59.4	89.0



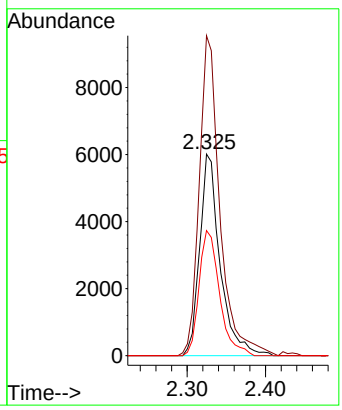


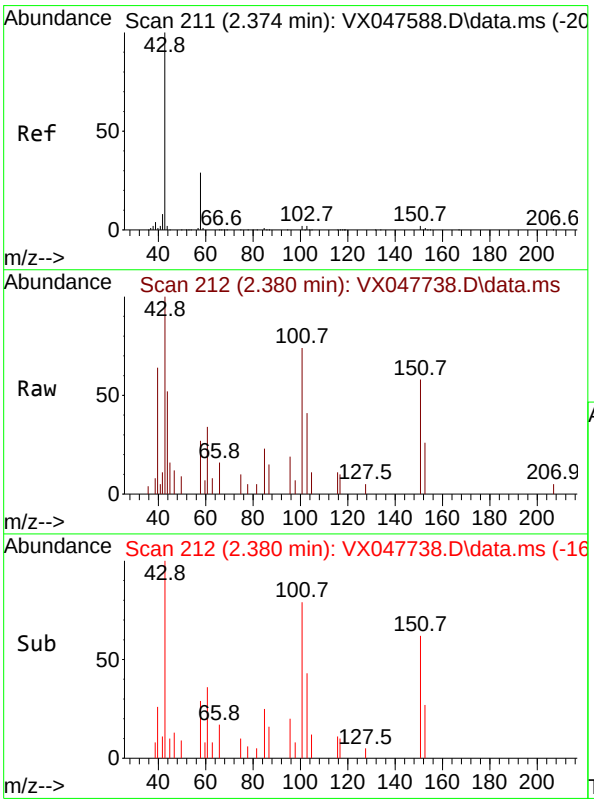
#12
1,1-Dichloroethene
Concen: 6.821 ug/l
RT: 2.325 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 96 Resp: 10897

Ion	Ratio	Lower	Upper
96	100		
61	158.7	131.0	196.6
98	65.2	47.7	71.5

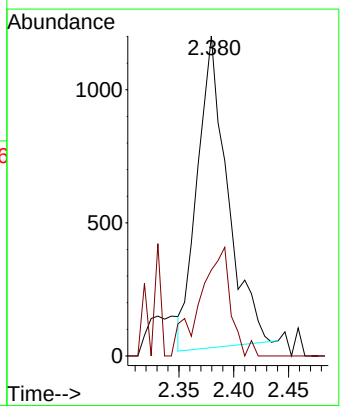


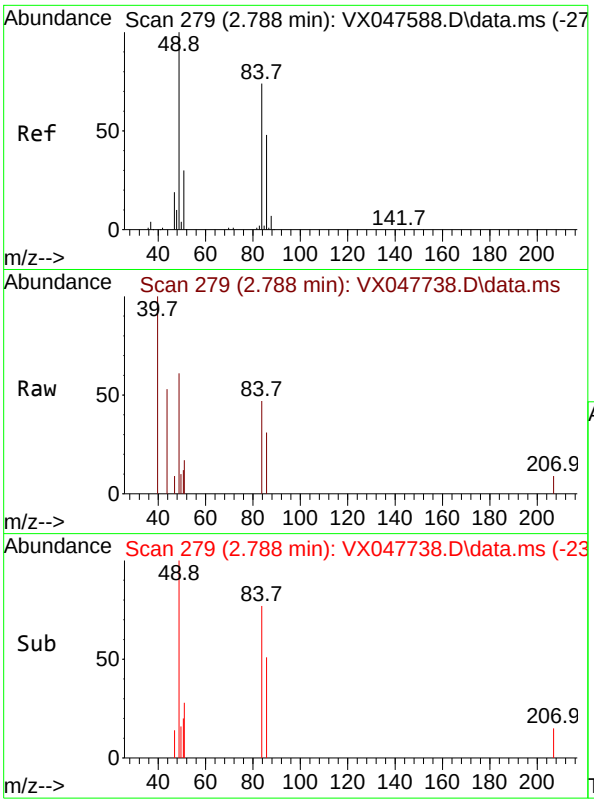


#16
Acetone
Concen: 2.410 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 43 Resp: 2243

Ion	Ratio	Lower	Upper
43	100		
58	28.2	23.4	35.0



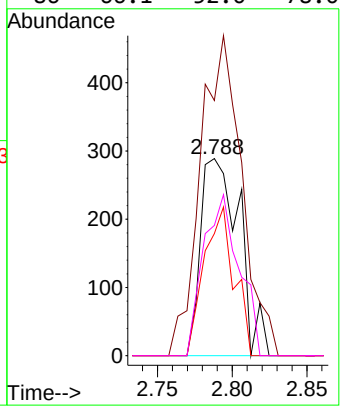


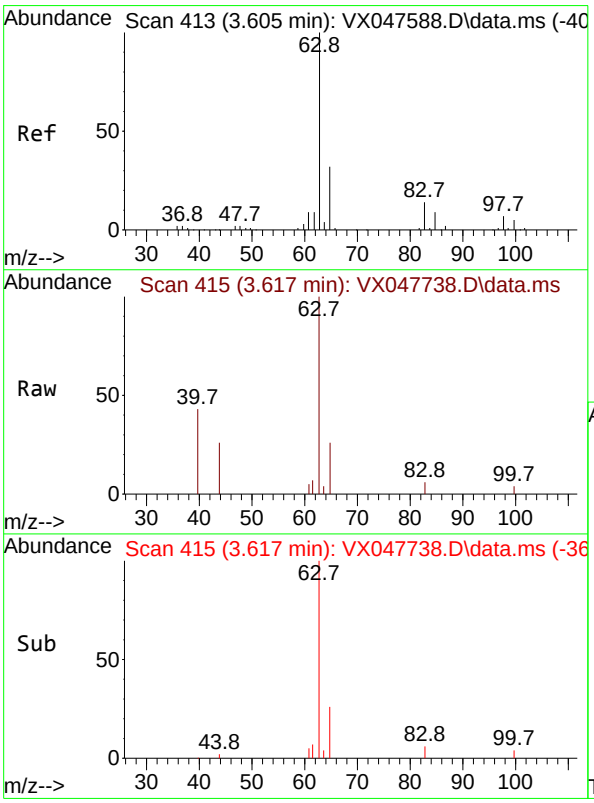
#20
Methylene Chloride
Concen: 0.263 ug/l
RT: 2.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 84 Resp: 519

Ion	Ratio	Lower	Upper
84	100		
49	150.2	108.6	162.8
51	61.9	32.6	48.8#
86	66.1	52.0	78.0

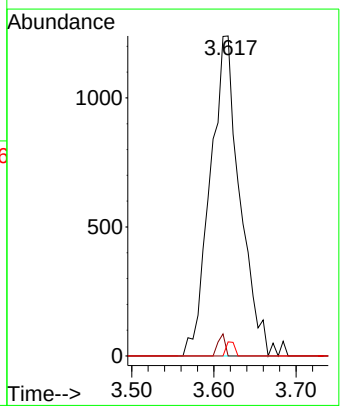


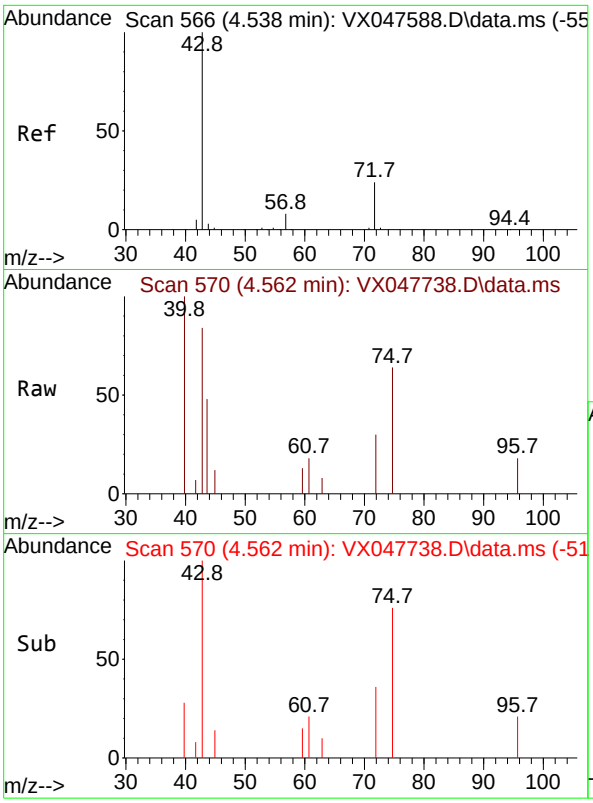


#24
1,1-Dichloroethane
Concen: 0.917 ug/l
RT: 3.617 min Scan# 415
Delta R.T. 0.012 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 63 Resp: 3114

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.2#
100	4.2	2.3	6.9



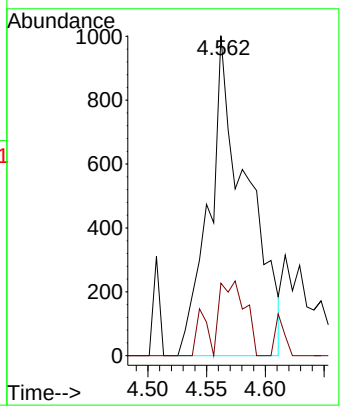


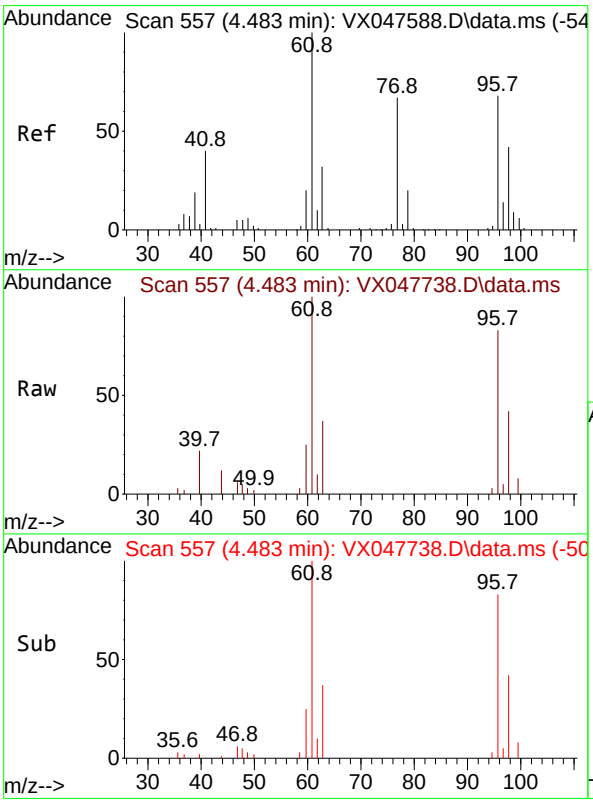
#25
2-Butanone
Concen: 1.923 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 43 Resp: 2232

Ion	Ratio	Lower	Upper
43	100		
72	27.8	20.1	30.1

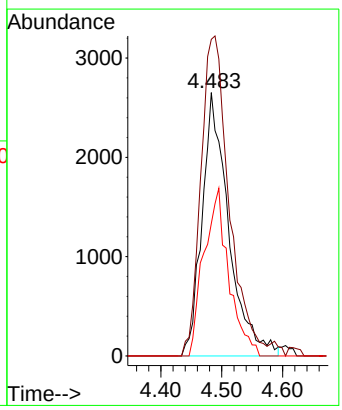


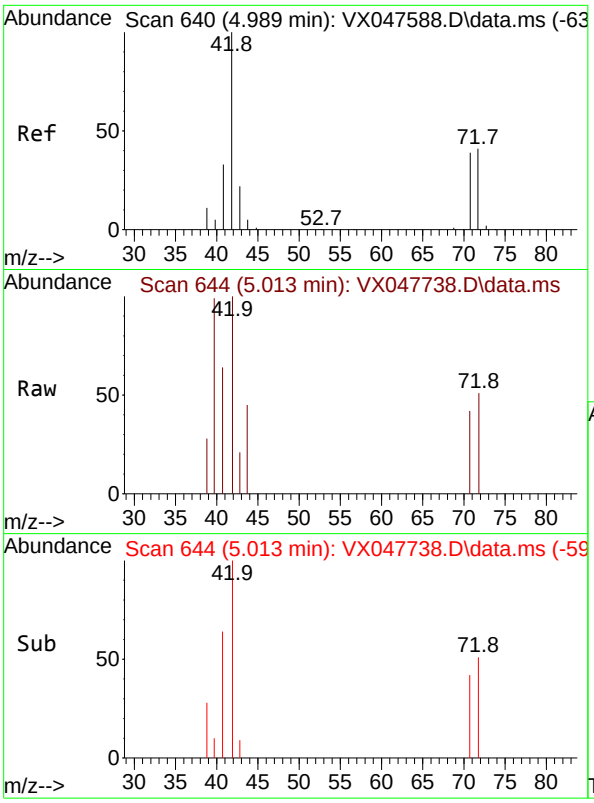


#27
cis-1,2-Dichloroethene
Concen: 3.818 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 96 Resp: 8042

Ion	Ratio	Lower	Upper
96	100		
61	129.1	0.0	303.2
98	59.6	0.0	127.8



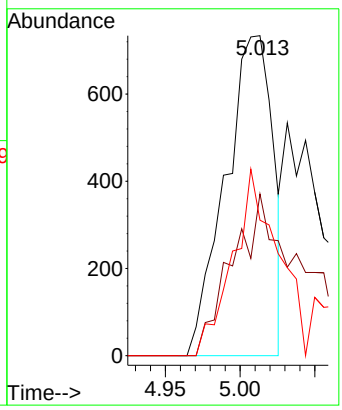


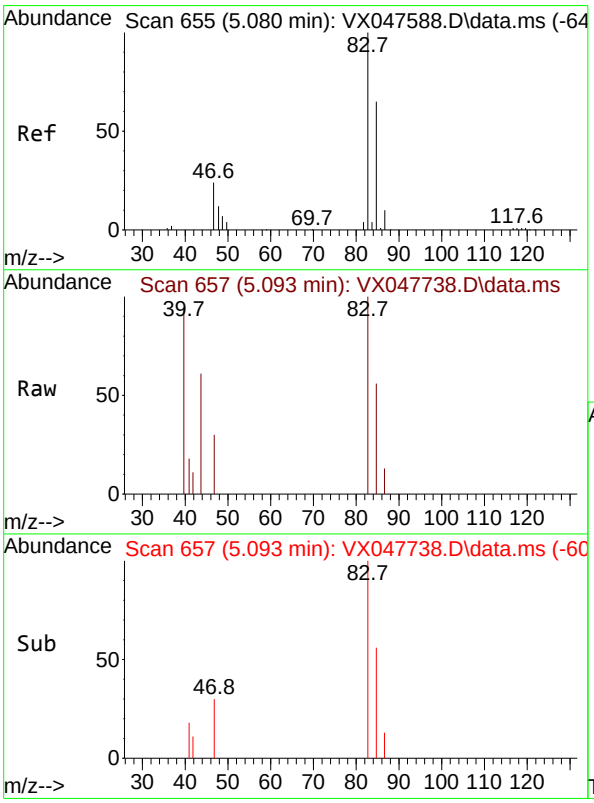
#29
Tetrahydrofuran
Concen: 2.331 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.024 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 42 Resp: 1628

Ion	Ratio	Lower	Upper
42	100		
72	69.4	34.2	51.2#
71	54.7	31.9	47.9#

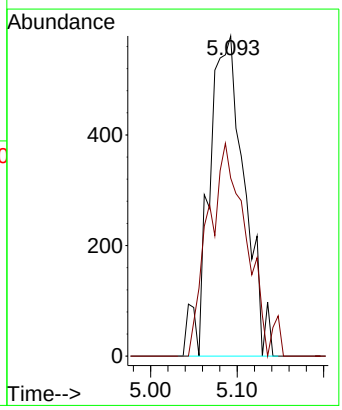


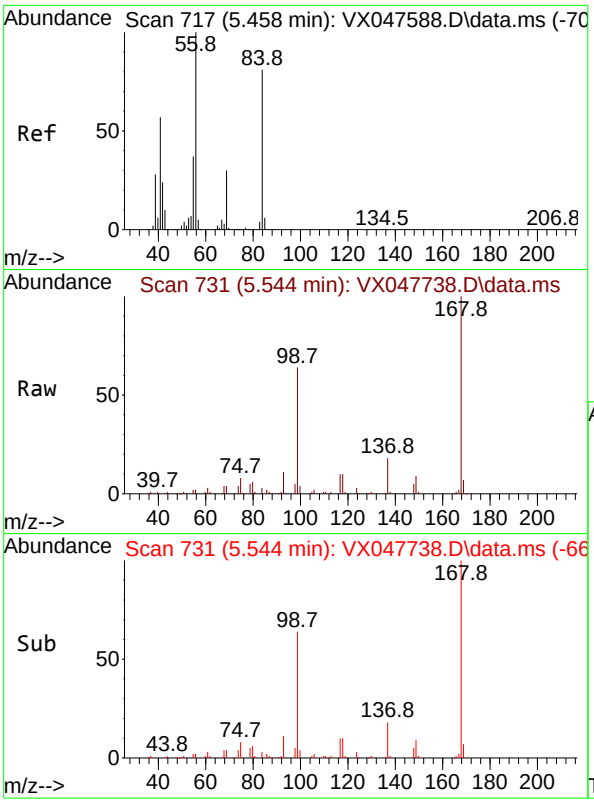


#30
Chloroform
Concen: 0.477 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.012 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 83 Resp: 1637

Ion	Ratio	Lower	Upper
83	100		
85	55.6	51.8	77.6



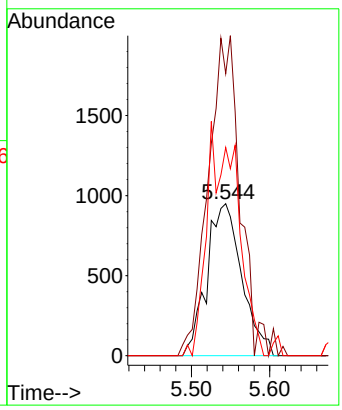


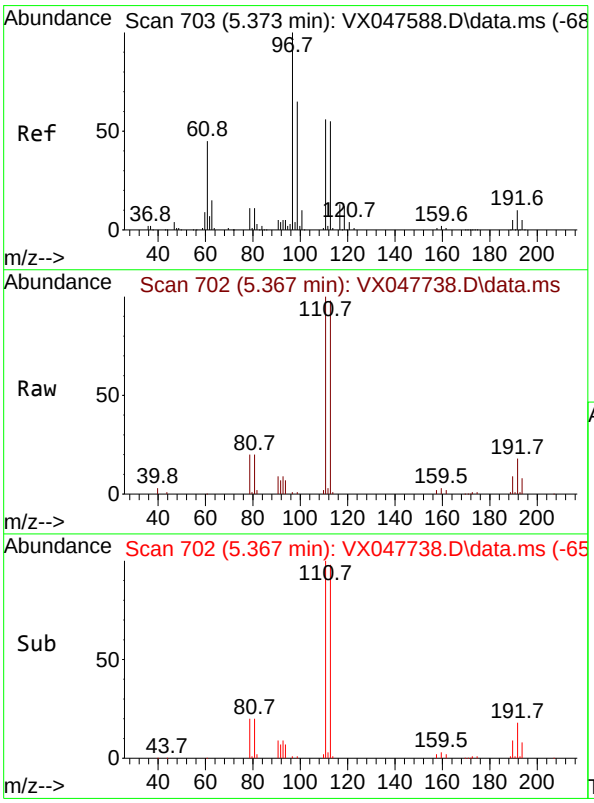
#31
Cyclohexane
Concen: 1.044 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.085 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 56 Resp: 2952

Ion	Ratio	Lower	Upper
56	100		
69	185.5	23.8	35.8#
84	136.8	64.6	97.0#

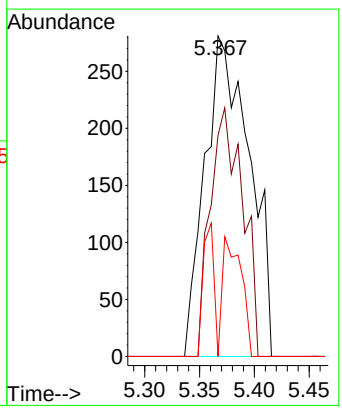


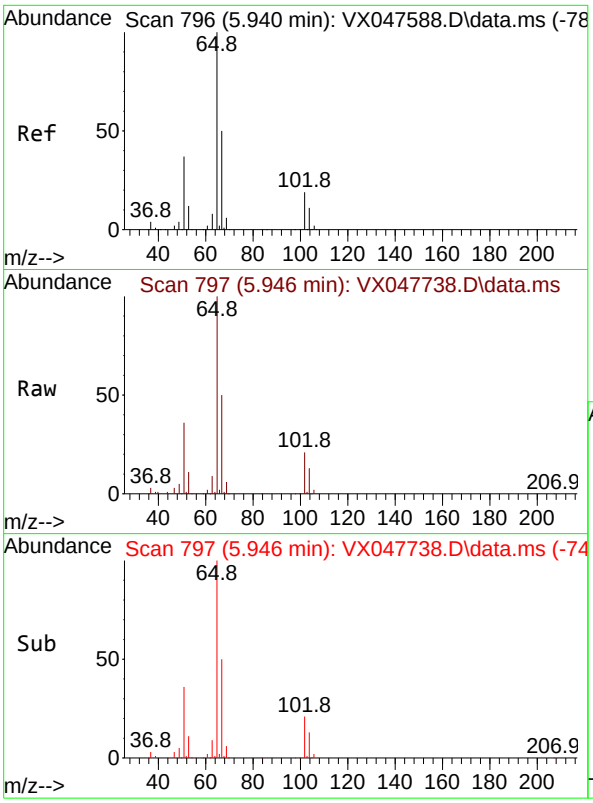


#32
1,1,1-Trichloroethane
Concen: 0.273 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 97 Resp: 796

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.6	76.0#
61	15.7	35.8	53.8#



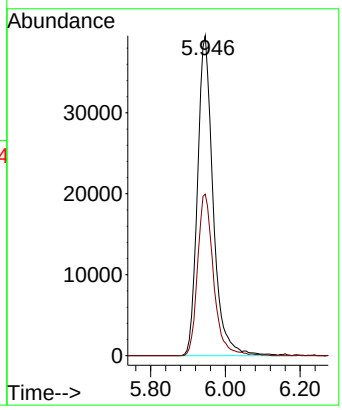


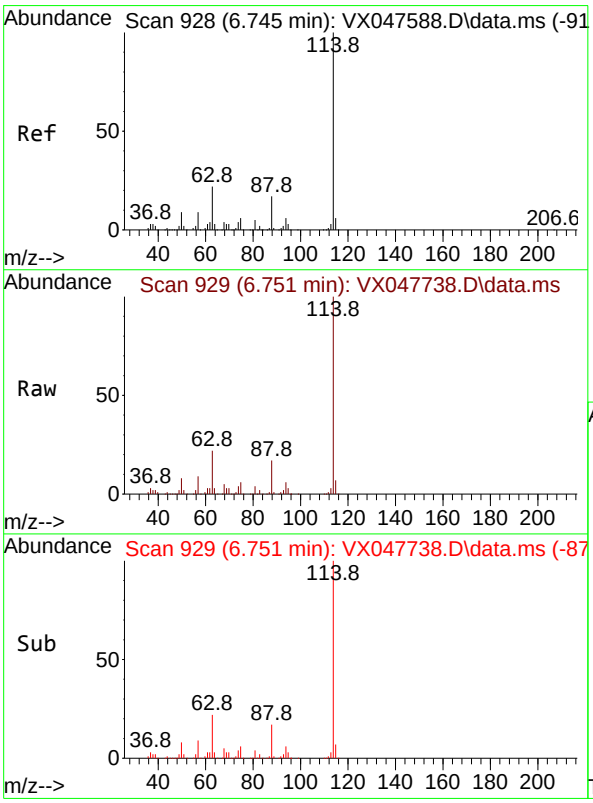
#33
1,2-Dichloroethane-d4
Concen: 53.476 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 65 Resp: 114450

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	103.0

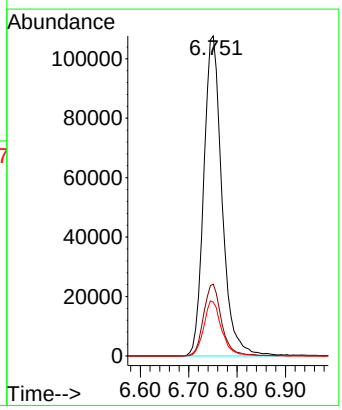


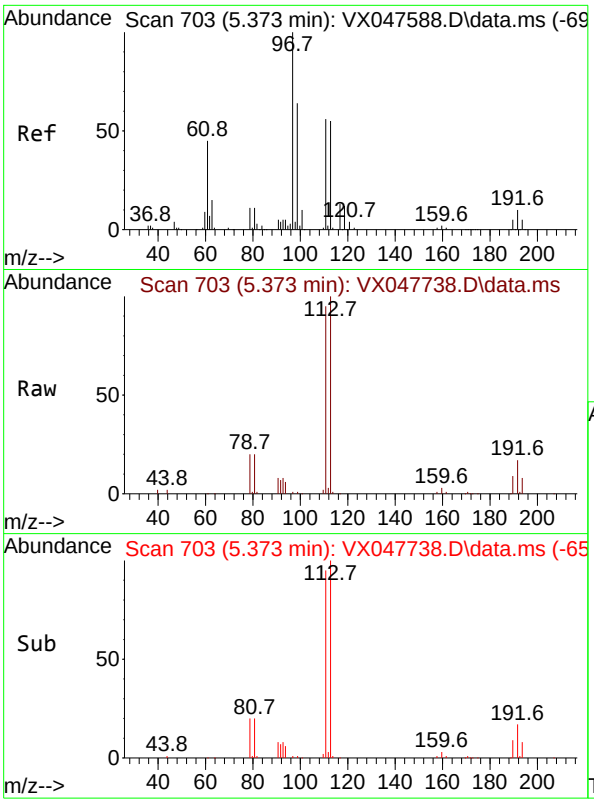


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:114 Resp: 282290

Ion	Ratio	Lower	Upper
114	100		
63	25.6	0.0	44.0
88	16.8	0.0	34.2



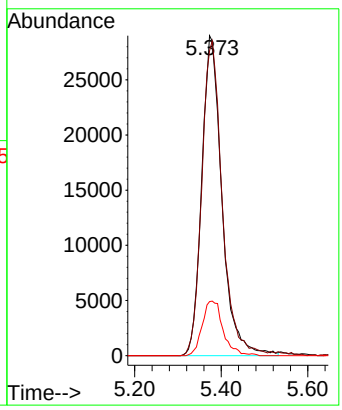


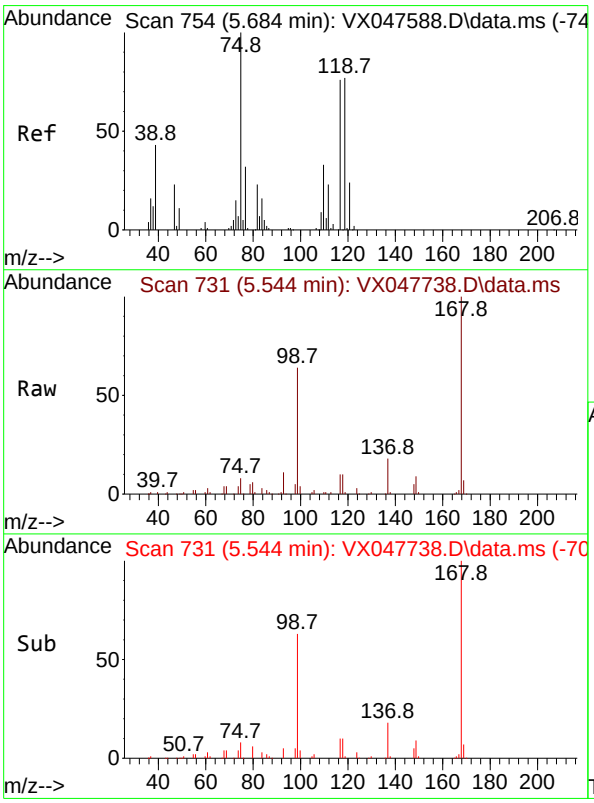
#35
Dibromofluoromethane
Concen: 49.515 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion:113 Resp: 93741

Ion	Ratio	Lower	Upper
113	100		
111	99.7	80.9	121.3
192	17.6	14.2	21.4

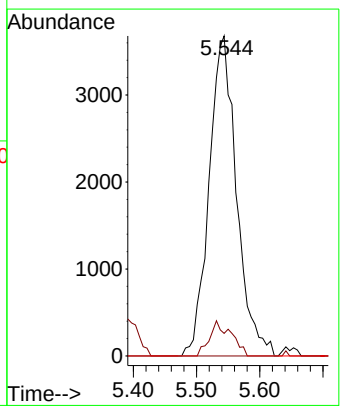


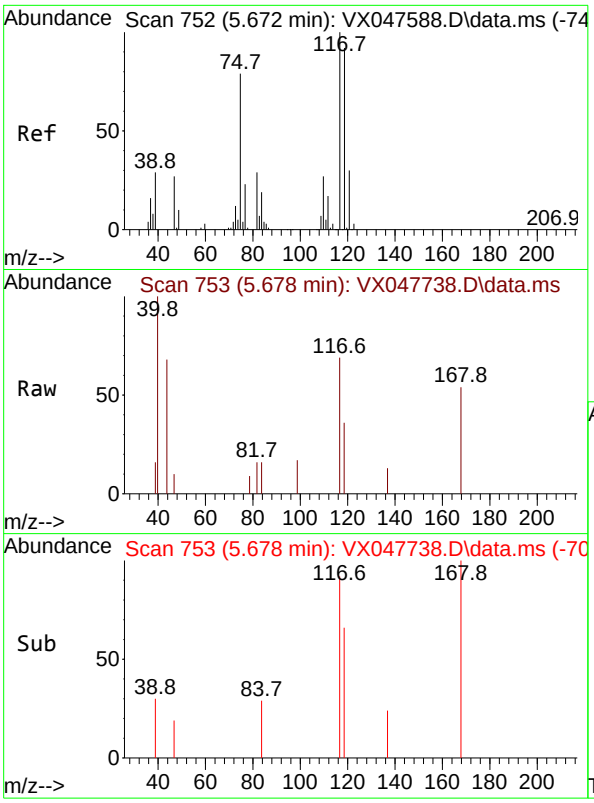


#36
1,1-Dichloropropene
Concen: 4.015 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 75 Resp: 11107

Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.7	50.1#
77	0.0	24.3	36.5#



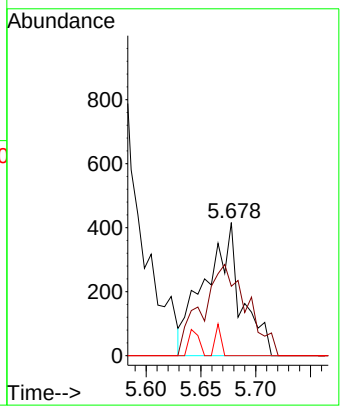


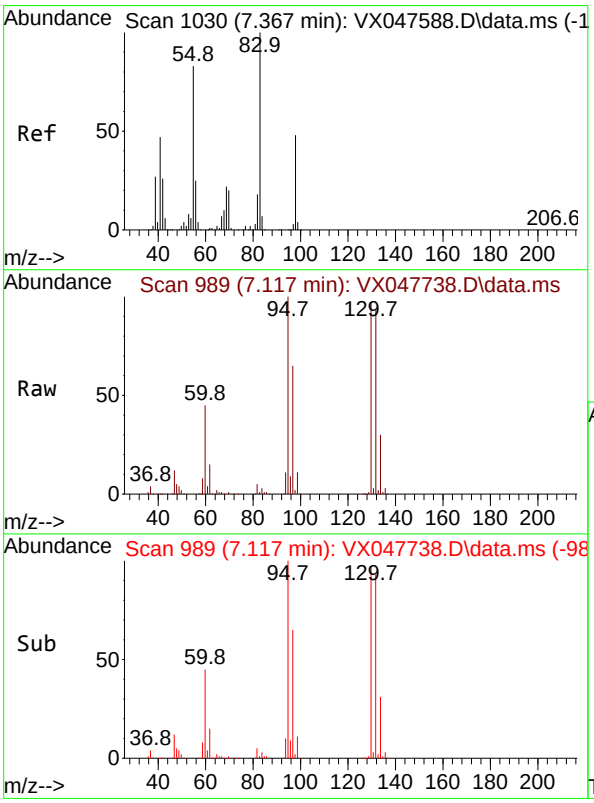
#38
Carbon Tetrachloride
Concen: 0.318 ug/l
RT: 5.678 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion:117 Resp: 955

Ion	Ratio	Lower	Upper
117	100		
119	52.2	73.4	110.2#
121	0.0	23.8	35.6#

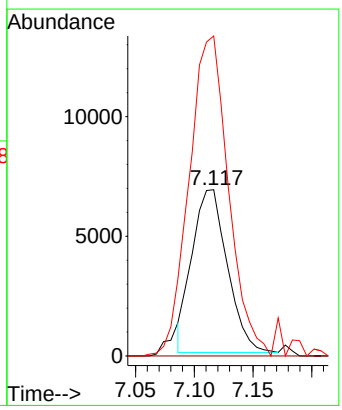


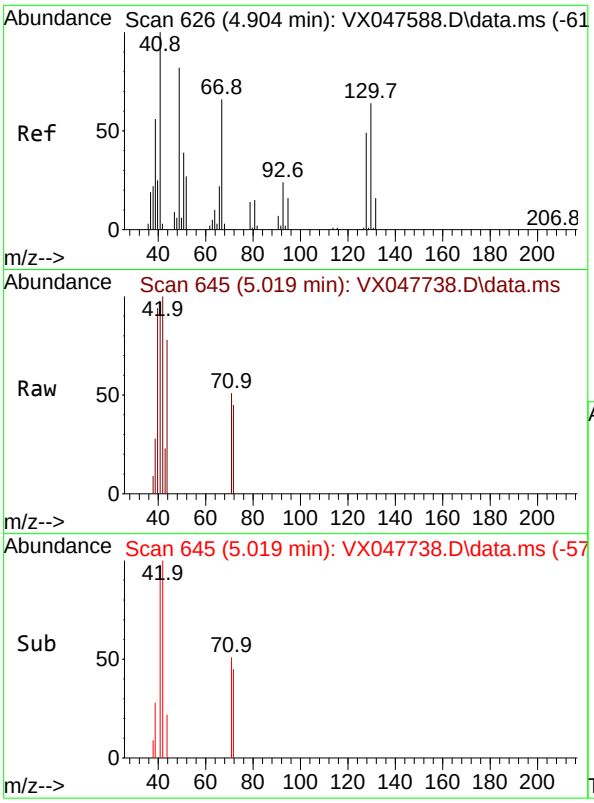


#39
Methylcyclohexane
Concen: 4.529 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.250 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 83 Resp: 14221

Ion	Ratio	Lower	Upper
83	100		
55	0.0	66.4	99.6#
98	285.9	38.1	57.1#



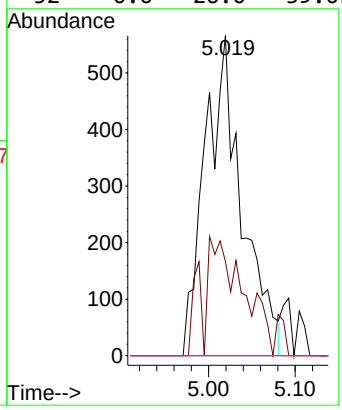


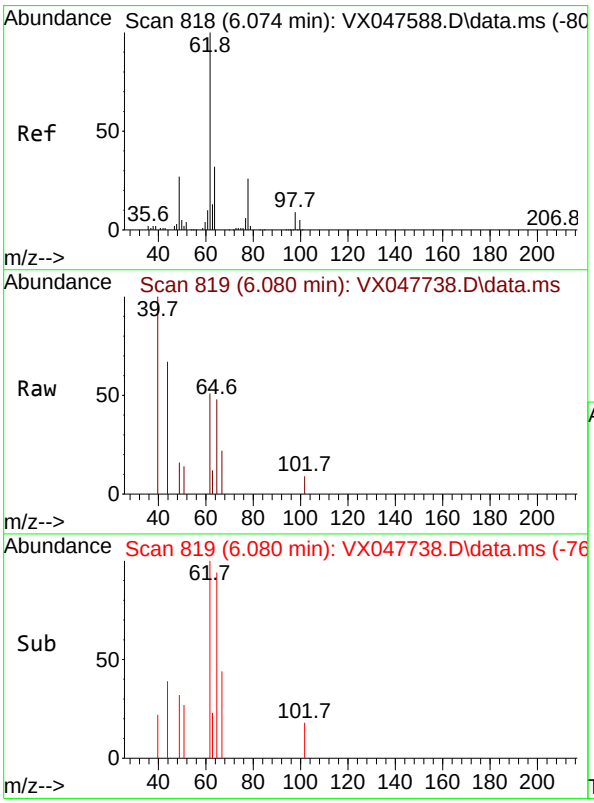
#41
Methacrylonitrile
Concen: 1.098 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.116 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 41 Resp: 1679

Ion	Ratio	Lower	Upper
41	100		
39	28.9	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#

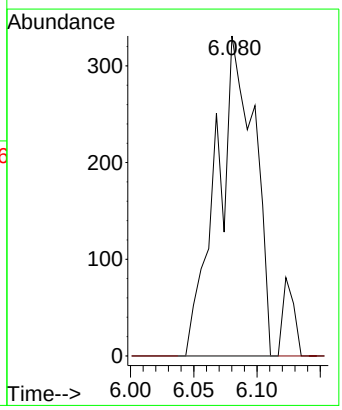


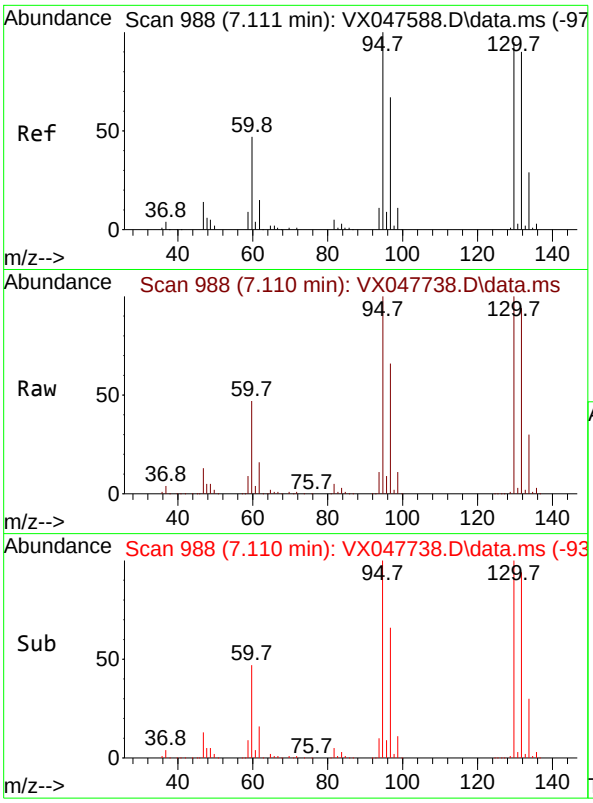


#42
1,2-Dichloroethane
Concen: 0.216 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 62 Resp: 691

Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.0



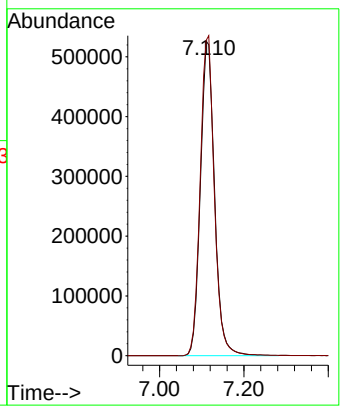


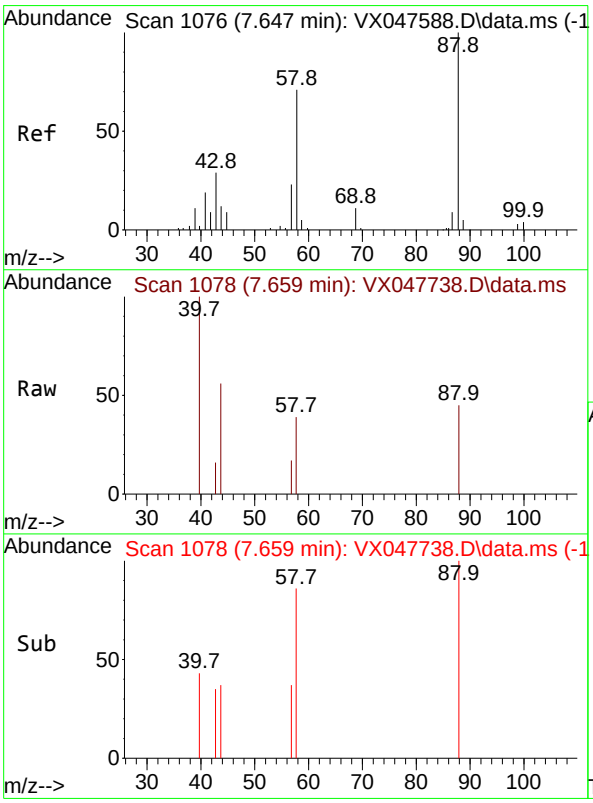
#44
Trichloroethene
Concen: 604.618 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion:130 Resp: 1228197

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	210.8

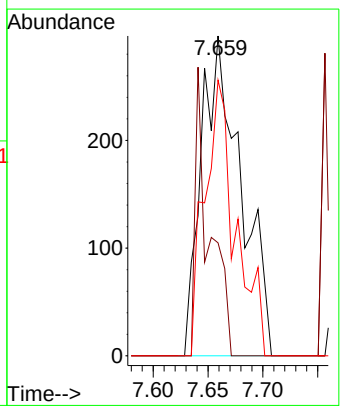


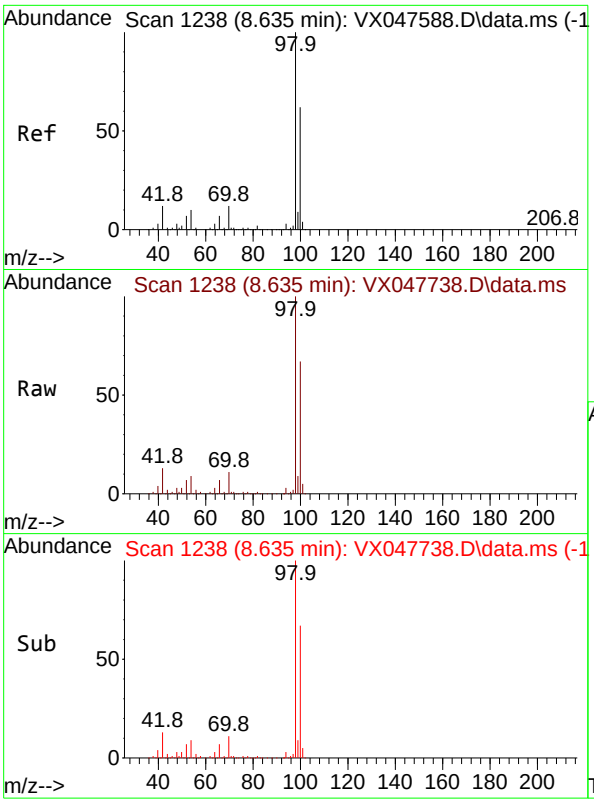


#49
1,4-Dioxane
Concen: 30.506 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 88 Resp: 746

Ion	Ratio	Lower	Upper
88	100		
43	31.9	30.2	45.2
58	66.9	59.5	89.3



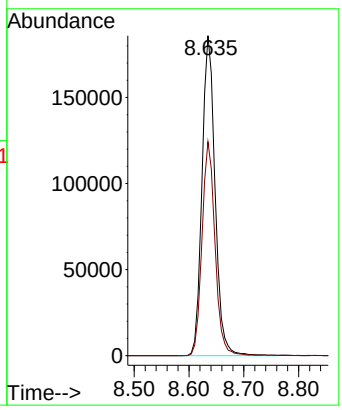


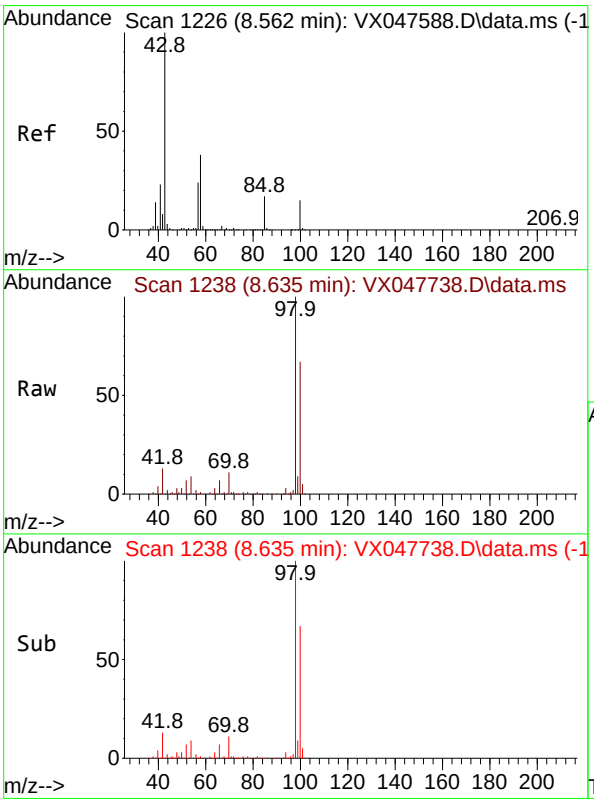
#50
Toluene-d8
Concen: 46.910 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 98 Resp: 307302

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.0	79.4

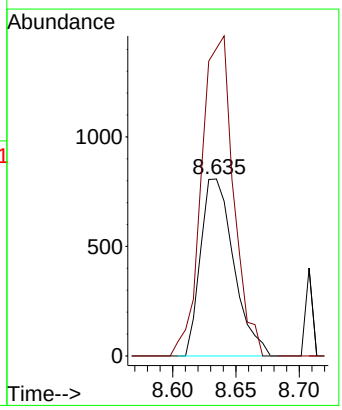


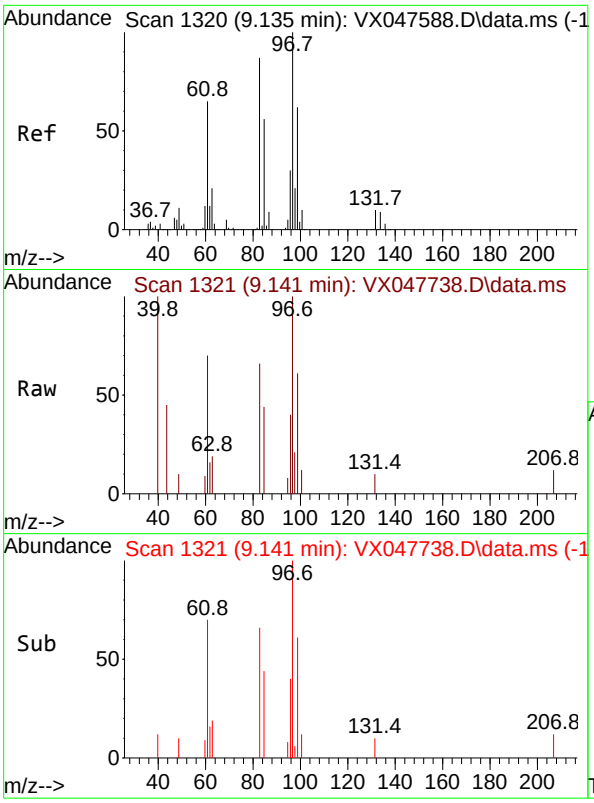


#51
4-Methyl-2-Pentanone
Concen: 0.547 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.073 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 43 Resp: 1473

Ion	Ratio	Lower	Upper
43	100		
58	174.7	30.3	45.5#



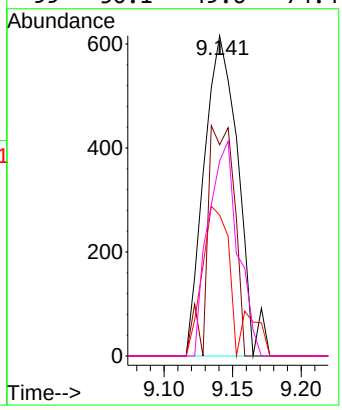


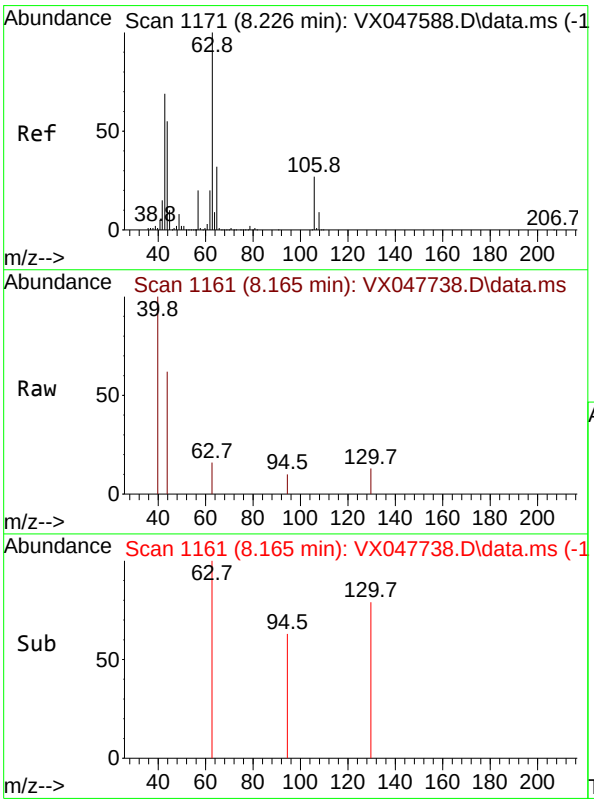
#55
1,1,2-Trichloroethane
Concen: 0.532 ug/l
RT: 9.141 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 97 Resp: 1061

Ion	Ratio	Lower	Upper
97	100		
83	54.3	69.6	104.4#
85	36.2	45.0	67.6#
99	50.1	49.6	74.4

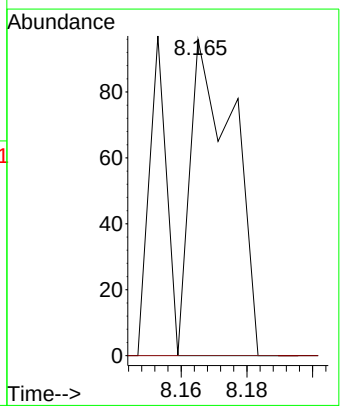


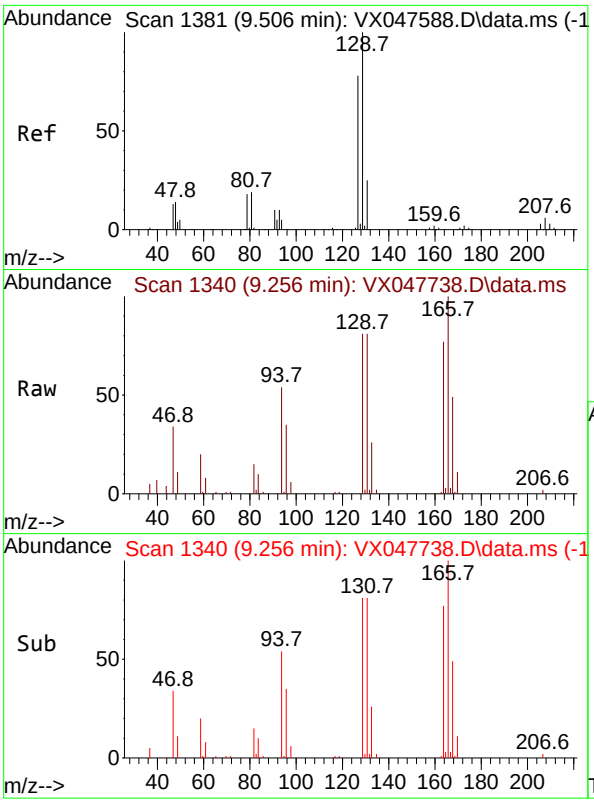


#58
2-Chloroethyl Vinyl ether
Concen: 7.951 ug/l
RT: 8.165 min Scan# 1161
Delta R.T. -0.061 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 63 Resp: 87

Ion	Ratio	Lower	Upper
63	100		
106	0.0	21.9	32.9#



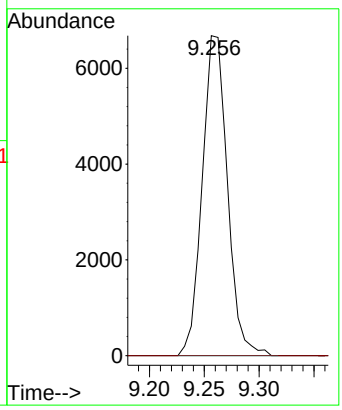


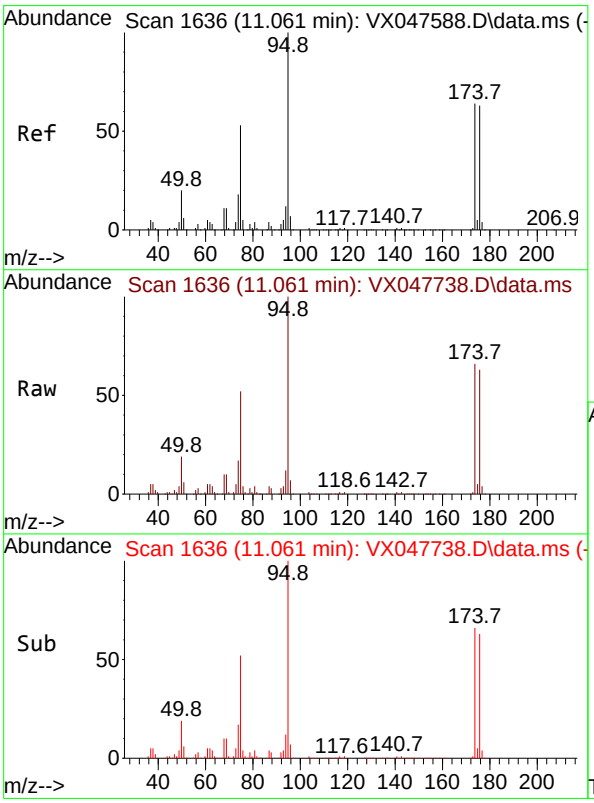
#60
Dibromochloromethane
Concen: 4.655 ug/l
RT: 9.256 min Scan# 1
Delta R.T. -0.250 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion:129 Resp: 10706

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.4	115.2#

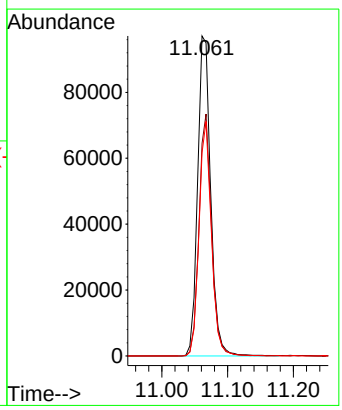


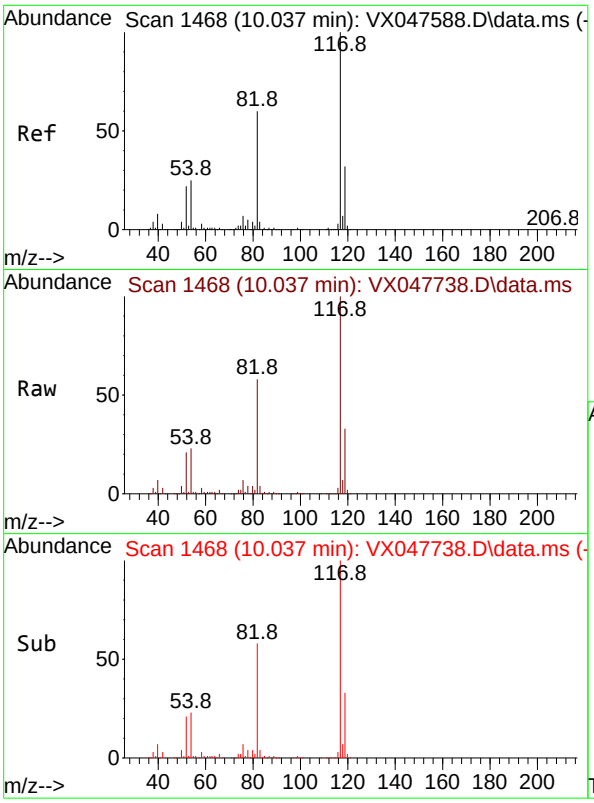


#62
4-Bromofluorobenzene
Concen: 53.917 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 95 Resp: 134047

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.6
176	69.5	0.0	138.4



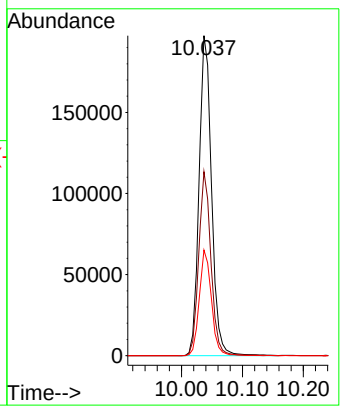


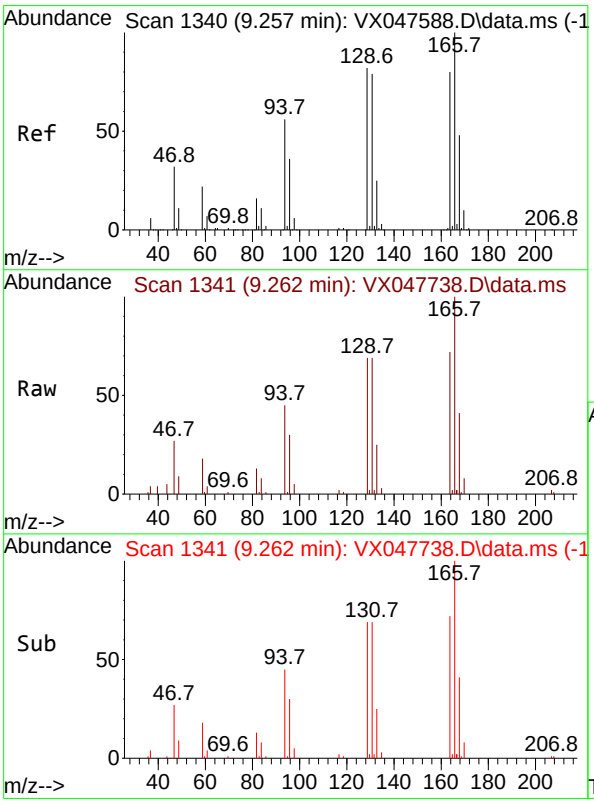
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion:117 Resp: 281029

Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.8	71.6
119	33.0	25.2	37.8

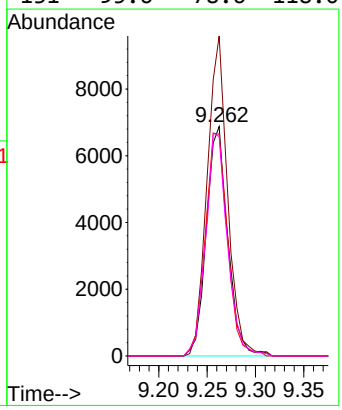


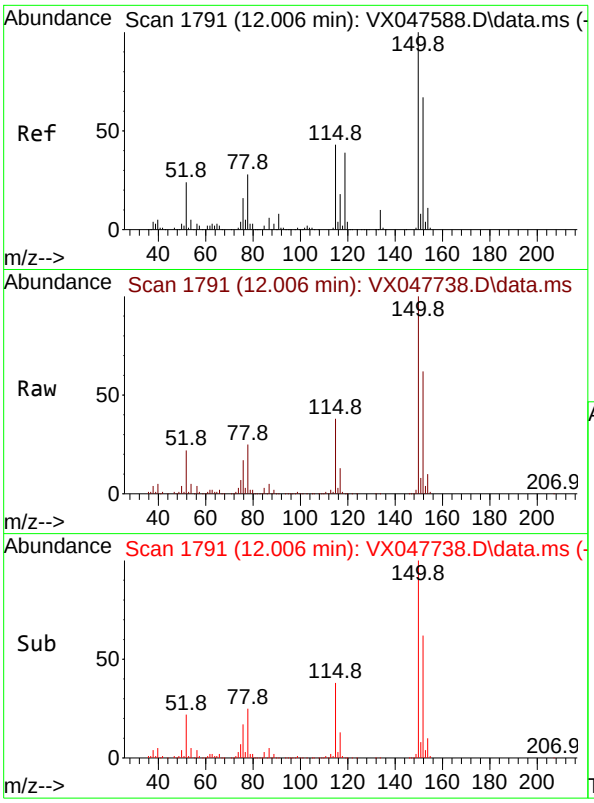


#64
Tetrachloroethene
Concen: 5.780 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion:164 Resp: 10589

Ion	Ratio	Lower	Upper
164	100		
166	141.8	100.2	150.2
129	96.6	81.8	122.6
131	95.6	78.6	118.0



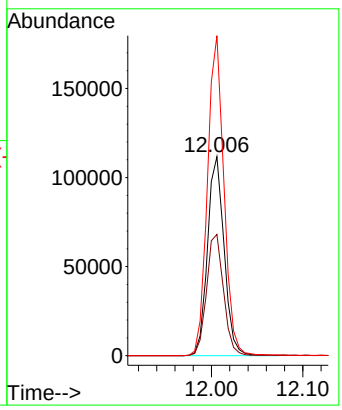


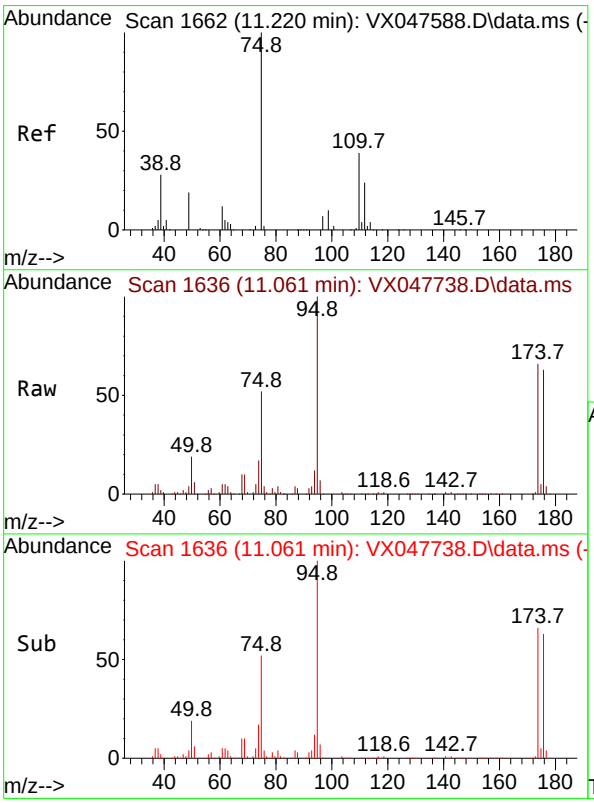
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion:152 Resp: 141279

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.9	134.5
150	159.0	0.0	352.0

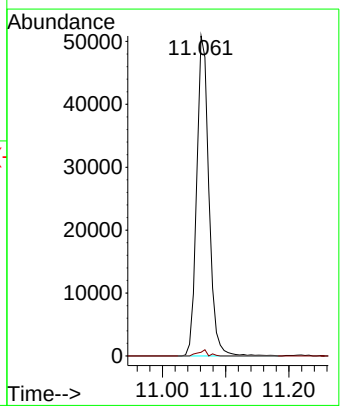


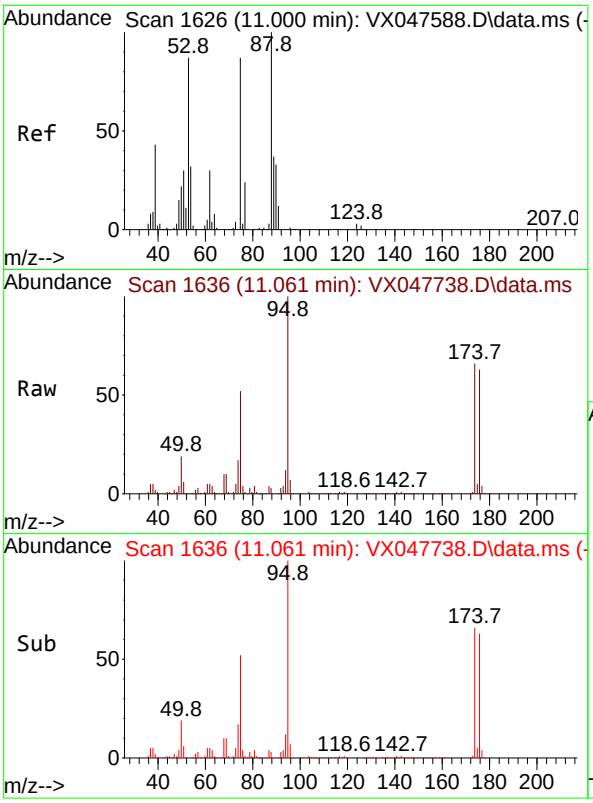


#76
1,2,3-Trichloropropane
Concen: 23.924 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Tgt Ion: 75 Resp: 68434

Ion	Ratio	Lower	Upper
75	100		
77	1.5	18.8	56.4#



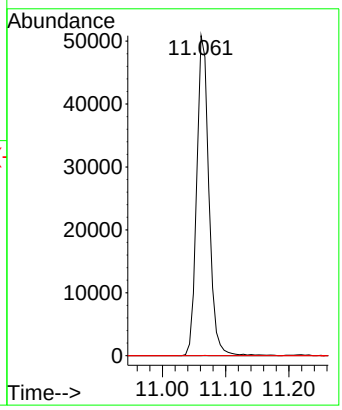


#81
trans-1,4-Dichloro-2-butene
Concen: 61.010 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX047738.D
Acq: 23 Sep 2025 16:55

Instrument :
MSVOA_X
ClientSampleId :
DUP06-20250912

Tgt Ion: 75 Resp: 68434

Ion	Ratio	Lower	Upper
75	100		
53	0.0	83.4	125.2#
89	0.0	36.3	54.5#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	149304	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	270355	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	243306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	119961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	116606	49.065	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.140%			
35) Dibromofluoromethane	5.379	113	90861	50.112	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.220%			
50) Toluene-d8	8.634	98	307967	49.087	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.180%			
62) 4-Bromofluorobenzene	11.061	95	117402	49.307	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	94404	61.061	ug/l	97
3) Chloromethane	1.300	50	117058	57.609	ug/l	98
4) Vinyl Chloride	1.380	62	115926	58.282	ug/l	100
5) Bromomethane	1.617	94	74054	58.713	ug/l	99
6) Chloroethane	1.697	64	75449	56.753	ug/l	97
7) Trichlorofluoromethane	1.898	101	163767	55.451	ug/l	99
8) Diethyl Ether	2.136	74	65417	54.148	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	95418	55.254	ug/l	99
10) Methyl Iodide	2.459	142	145088	53.870	ug/l	100
11) Tert butyl alcohol	2.946	59	61154	231.046	ug/l	100
12) 1,1-Dichloroethene	2.325	96	98052	55.275	ug/l	96
13) Acrolein	2.239	56	68714	281.718	ug/l	98
14) Allyl chloride	2.666	41	185829	50.766	ug/l	97
15) Acrylonitrile	3.062	53	282724	288.375	ug/l	99
16) Acetone	2.373	43	220076	212.978	ug/l	100
17) Carbon Disulfide	2.520	76	272927	56.202	ug/l	99
18) Methyl Acetate	2.703	43	130811	56.883	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	349001	53.896	ug/l	99
20) Methylene Chloride	2.794	84	119000	54.405	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	106771	55.907	ug/l	99
22) Diisopropyl ether	3.757	45	386641	54.502	ug/l	98
23) Vinyl Acetate	3.715	43	1566296	275.867	ug/l	100
24) 1,1-Dichloroethane	3.611	63	205496	54.500	ug/l	99
25) 2-Butanone	4.544	43	330135	256.128	ug/l	97
26) 2,2-Dichloropropane	4.471	77	130530	41.645	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	128773	55.058	ug/l	95
28) Bromochloromethane	4.891	49	86403	52.489	ug/l	99
29) Tetrahydrofuran	4.995	42	217984	281.124	ug/l	98
30) Chloroform	5.086	83	207673	54.504	ug/l	97
31) Cyclohexane	5.458	56	164278	52.311	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	171647	53.110	ug/l	99
36) 1,1-Dichloropropene	5.684	75	134570	50.792	ug/l	99
37) Ethyl Acetate	4.702	43	146380	51.600	ug/l	99
38) Carbon Tetrachloride	5.672	117	141128	49.026	ug/l	93
39) Methylcyclohexane	7.366	83	153808	51.142	ug/l	99
40) Benzene	6.025	78	428760	53.282	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	79236	54.104	ug/l		98
42) 1,2-Dichloroethane	6.074	62	157471	51.431	ug/l		98
43) Isopropyl Acetate	6.324	43	243453	52.327	ug/l		99
44) Trichloroethene	7.110	130	104230	53.576	ug/l		94
45) 1,2-Dichloropropane	7.415	63	110894	53.818	ug/l		99
46) Dibromomethane	7.568	93	79627	53.104	ug/l		97
47) Bromodichloromethane	7.805	83	164232	53.077	ug/l		96
48) Methyl methacrylate	7.677	41	121164	52.283	ug/l		98
49) 1,4-Dioxane	7.647	88	28012	1196.046	ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	703728	272.809	ug/l		100
52) Toluene	8.702	92	263320	53.113	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	159381	50.499	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	173466	51.421	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	104553	54.692	ug/l		98
56) Ethyl methacrylate	9.104	69	163467	54.448	ug/l		96
57) 1,3-Dichloropropane	9.293	76	179171	54.560	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	360369	251.172	ug/l		100
59) 2-Hexanone	9.415	43	483347	260.895	ug/l		99
60) Dibromochloromethane	9.506	129	119117	54.078	ug/l		99
61) 1,2-Dibromoethane	9.592	107	106971	54.937	ug/l		100
64) Tetrachloroethene	9.262	164	82104	51.765	ug/l		96
65) Chlorobenzene	10.061	112	288305	52.159	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	98820	51.810	ug/l		98
67) Ethyl Benzene	10.177	91	491426	51.527	ug/l		99
68) m/p-Xylenes	10.287	106	367469	103.518	ug/l		99
69) o-Xylene	10.628	106	180297	52.511	ug/l		98
70) Styrene	10.640	104	317529	52.779	ug/l		99
71) Bromoform	10.780	173	74197	52.097	ug/l	#	100
73) Isopropylbenzene	10.945	105	453473	49.722	ug/l		99
74) N-amyl acetate	10.829	43	210798	50.685	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	143186	51.892	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	157182	64.715	ug/l		89
77) Bromobenzene	11.183	156	112329	50.007	ug/l		98
78) n-propylbenzene	11.286	91	533484	49.483	ug/l		99
79) 2-Chlorotoluene	11.347	91	324017	49.069	ug/l		98
80) 1,3,5-Trimethylbenzene	11.433	105	370433	49.437	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.000	75	44224	46.433	ug/l		97
82) 4-Chlorotoluene	11.439	91	386898	49.610	ug/l		99
83) tert-Butylbenzene	11.695	119	373585	48.704	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	376730	49.591	ug/l		100
85) sec-Butylbenzene	11.872	105	445326	48.878	ug/l		100
86) p-Isopropyltoluene	11.994	119	373936	48.479	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	205631	49.286	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	207463	48.449	ug/l		98
89) n-Butylbenzene	12.317	91	345737	48.442	ug/l		98
90) Hexachloroethane	12.518	117	65317	48.232	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	198557	49.953	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	27323	48.908	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	123384	47.762	ug/l		98
94) Hexachlorobutadiene	13.707	225	39729	45.277	ug/l		99
95) Naphthalene	13.756	128	389975	49.575	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	118608	49.357	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

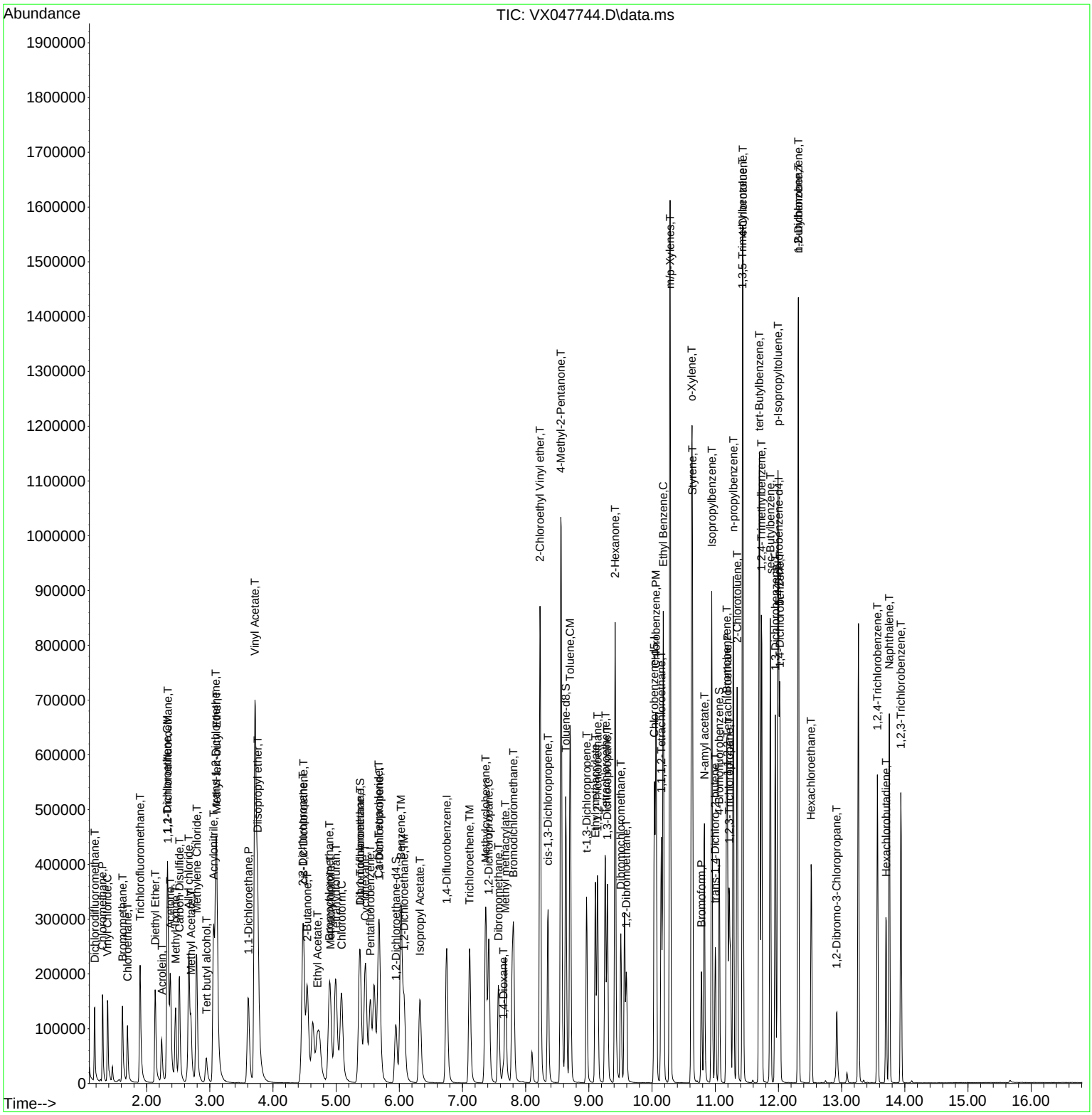
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

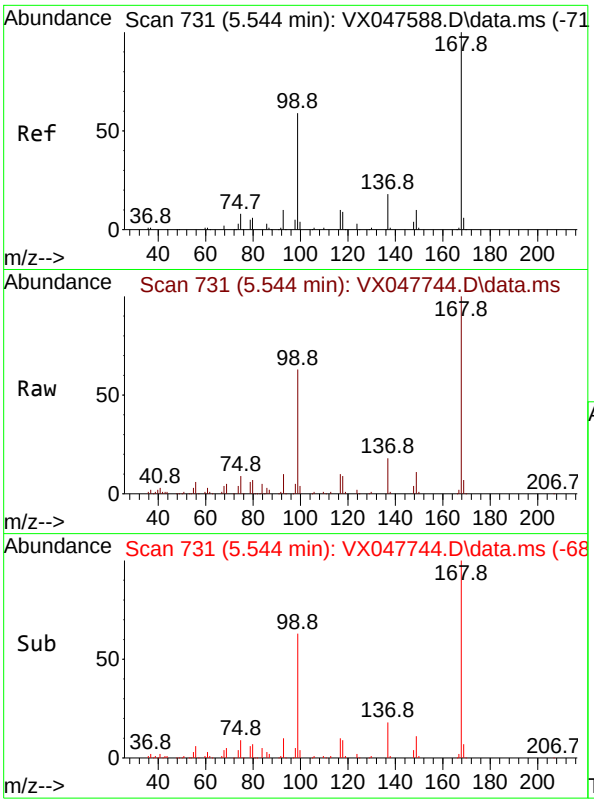
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047744.D
Acq On : 23 Sep 2025 19:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 24 01:38:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



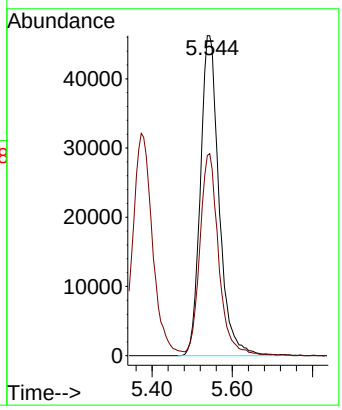


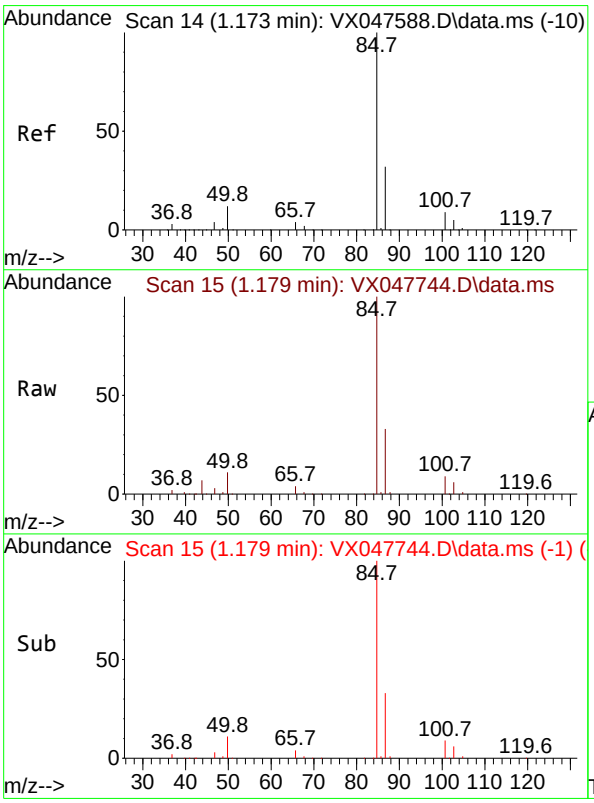
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 149304

Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2

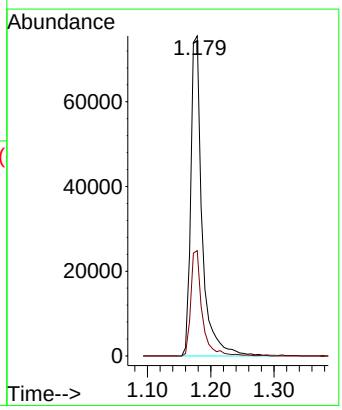


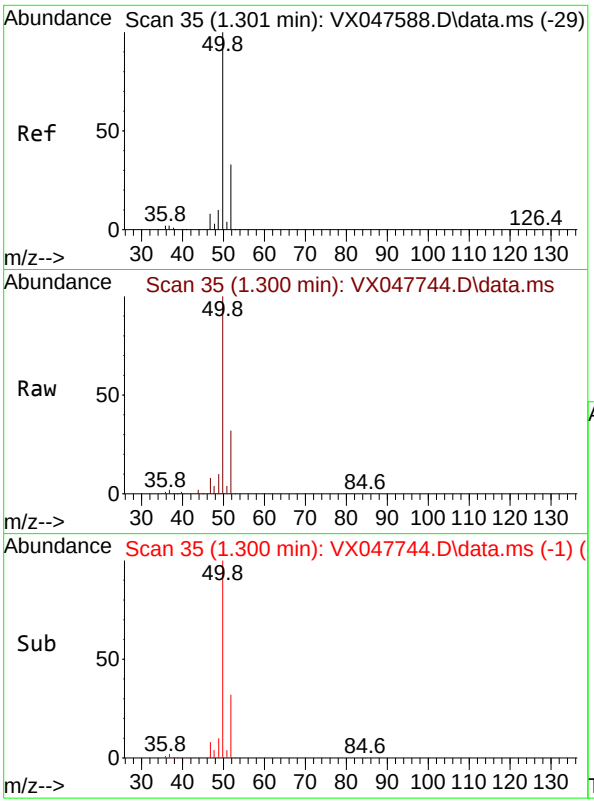


#2
Dichlorodifluoromethane
Concen: 61.061 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 85 Resp: 94404

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3



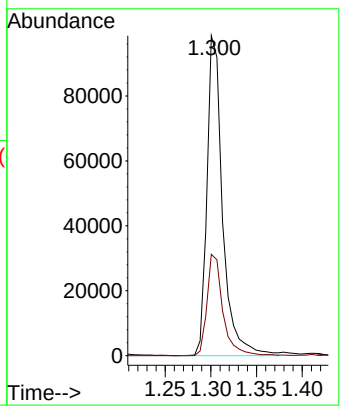


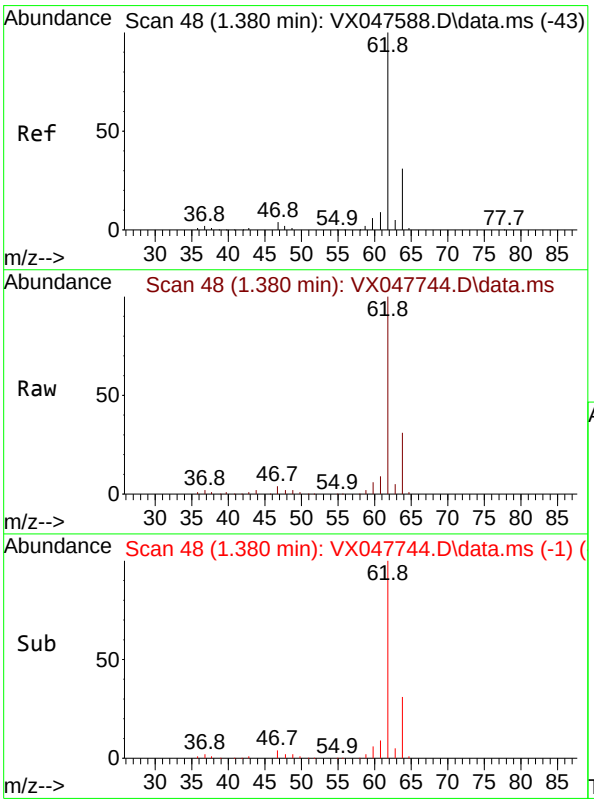
#3
Chloromethane
Concen: 57.609 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 117058

Ion	Ratio	Lower	Upper
50	100		
52	31.7	26.1	39.1

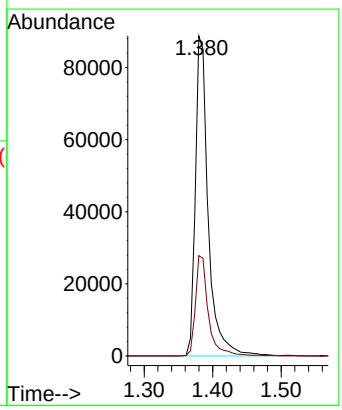


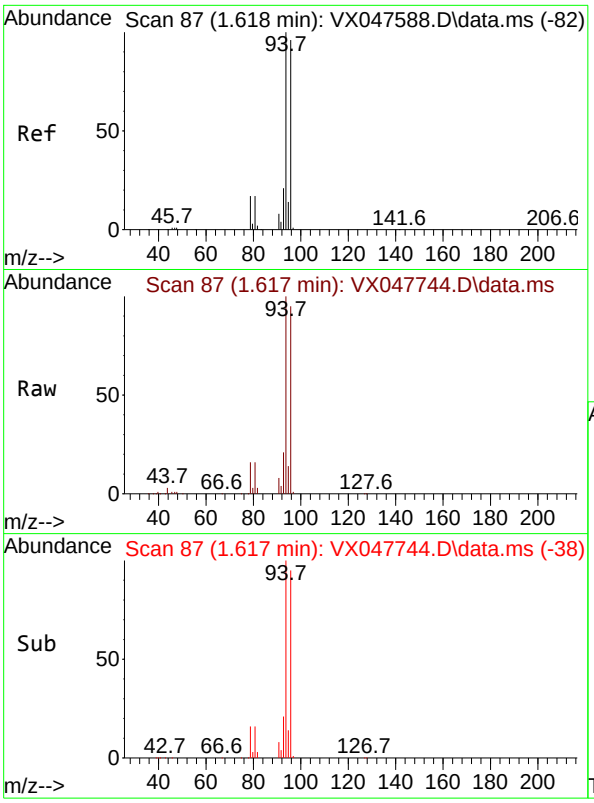


#4
Vinyl Chloride
Concen: 58.282 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 62 Resp: 115926

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.9	37.3



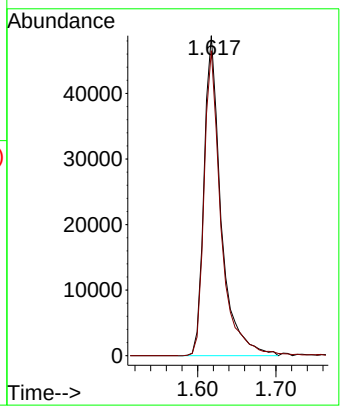


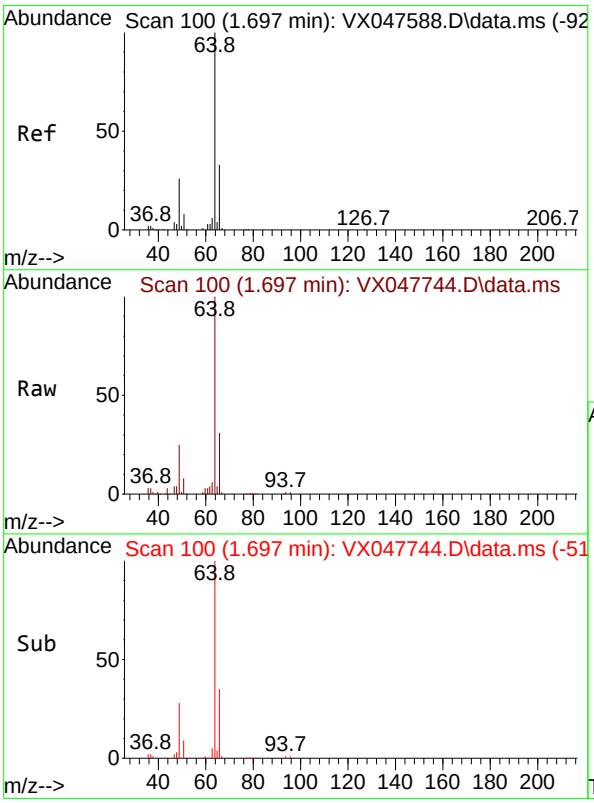
#5
Bromomethane
Concen: 58.713 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 74054

Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.6	115.0

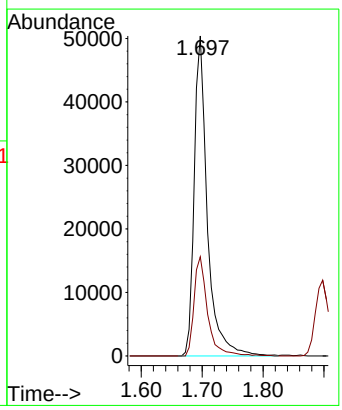


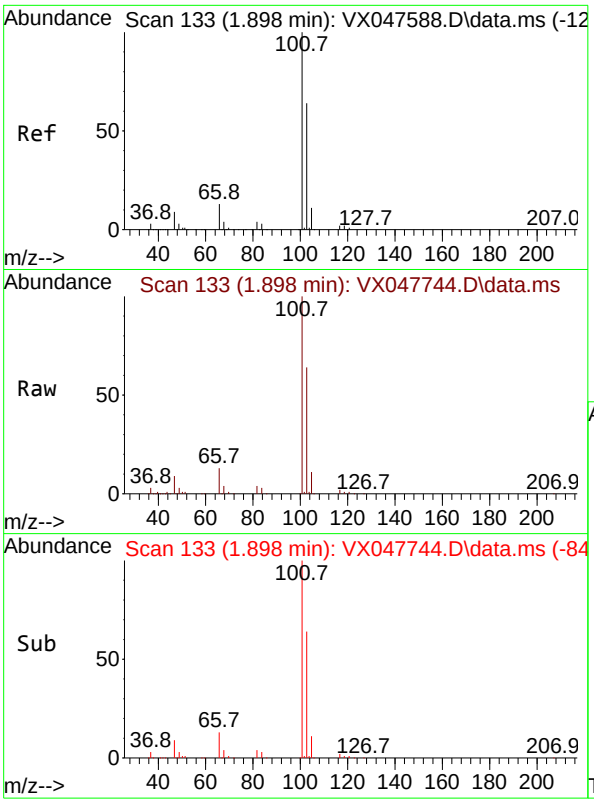


#6
Chloroethane
Concen: 56.753 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 64 Resp: 75449

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.1	39.1



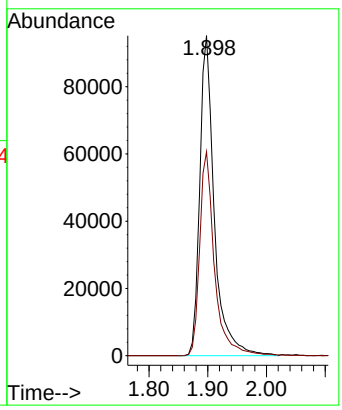


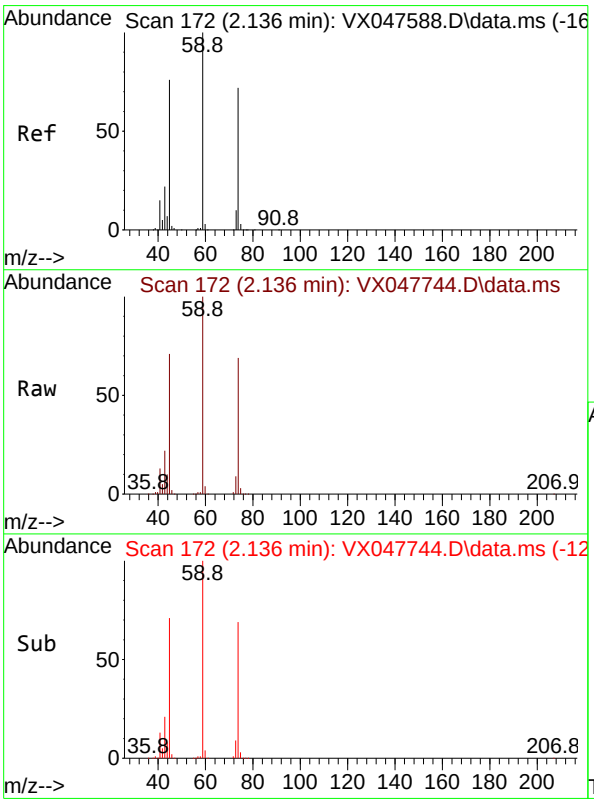
#7
Trichlorofluoromethane
Concen: 55.451 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 163767

Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.4	77.2

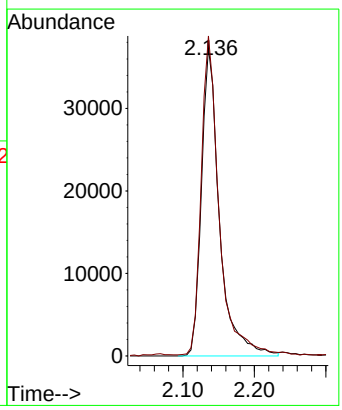


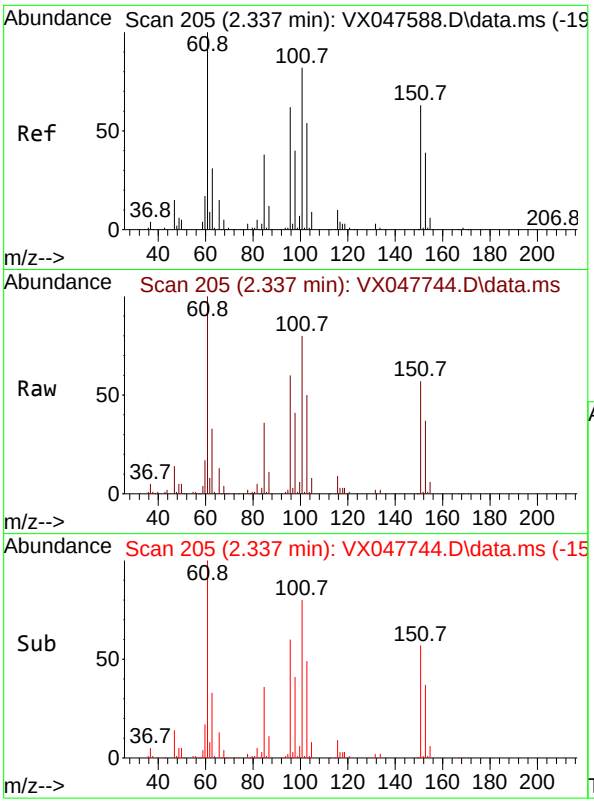


#8
Diethyl Ether
Concen: 54.148 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 74 Resp: 65417

Ion	Ratio	Lower	Upper
74	100		
45	102.9	52.3	156.8



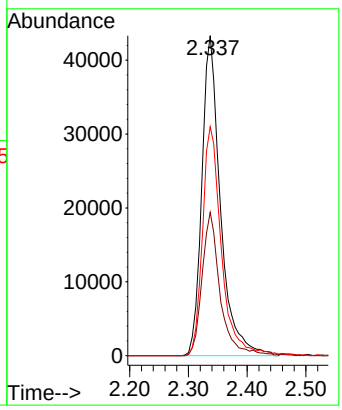


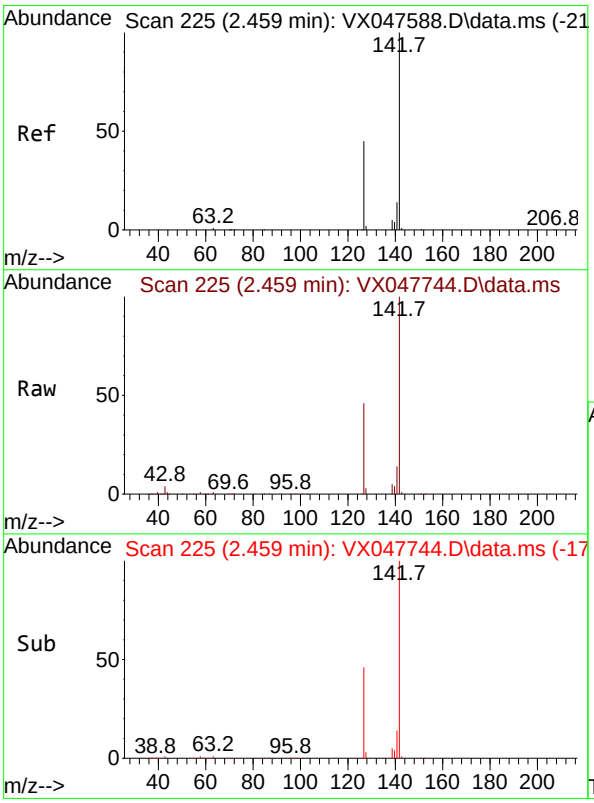
#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.254 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 95418

Ion	Ratio	Lower	Upper
101	100		
85	43.7	35.5	53.3
151	73.2	59.4	89.0

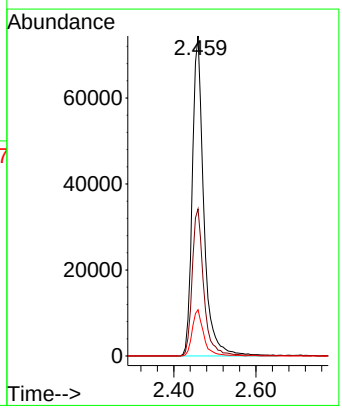


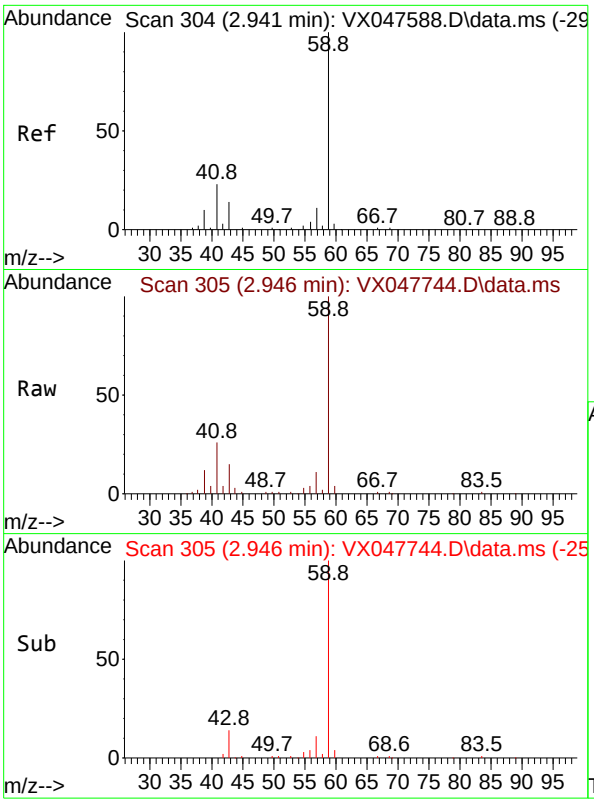


#10
Methyl Iodide
Concen: 53.870 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:142 Resp: 145088

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.3	11.4	17.0



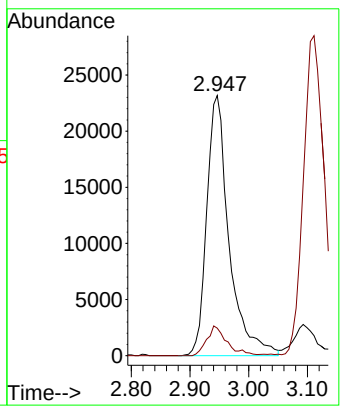


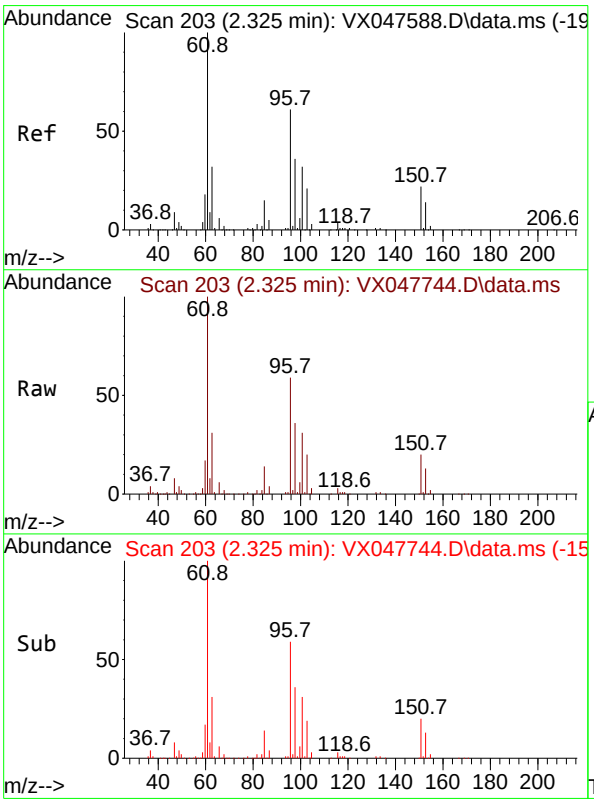
#11
Tert butyl alcohol
Concen: 231.046 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 61154

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5

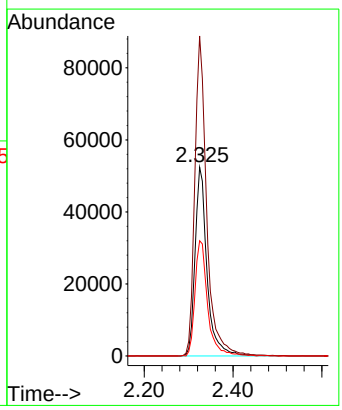


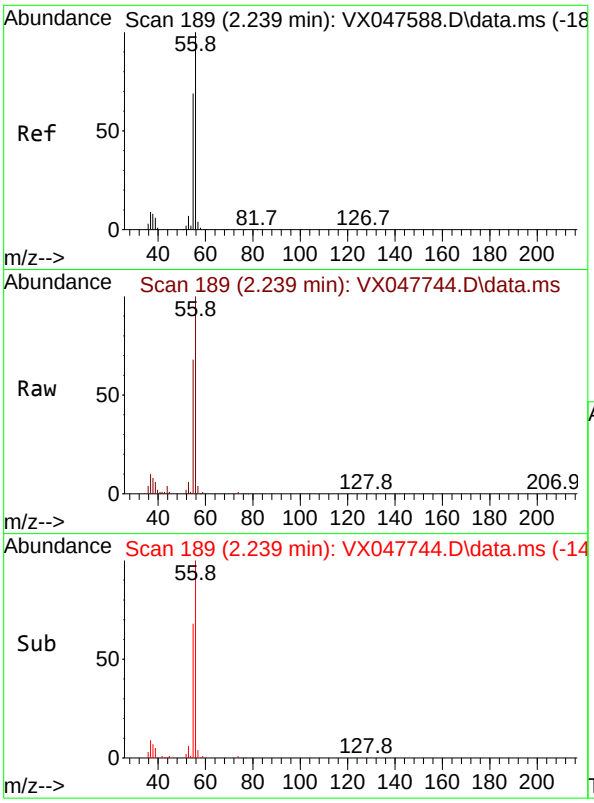


#12
1,1-Dichloroethene
Concen: 55.275 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 96 Resp: 98052

Ion	Ratio	Lower	Upper
96	100		
61	169.5	131.0	196.6
98	61.1	47.7	71.5



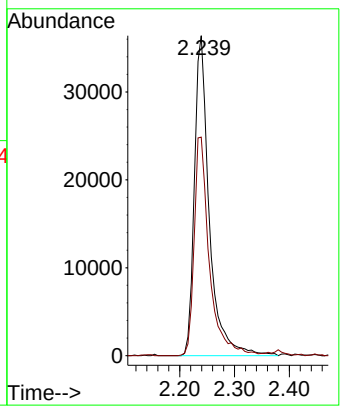


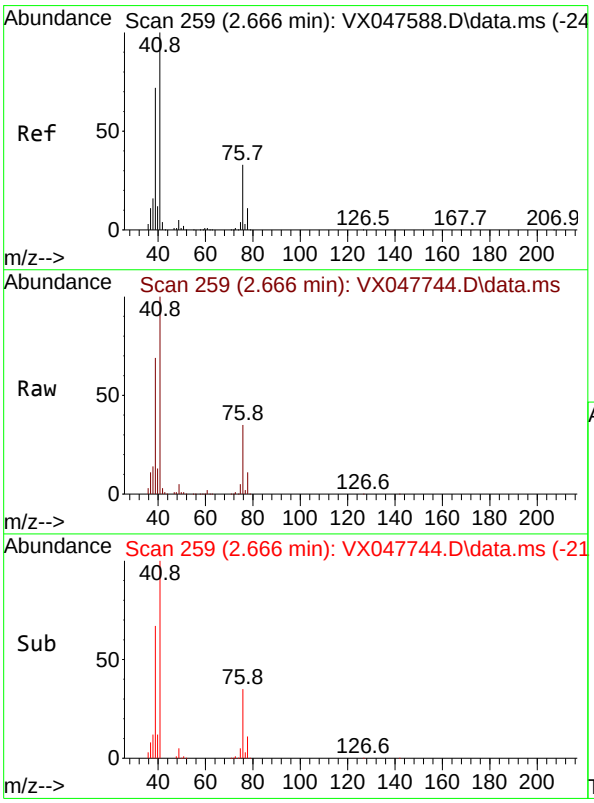
#13
Acrolein
Concen: 281.718 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 68714

Ion	Ratio	Lower	Upper
56	100		
55	69.9	57.2	85.8

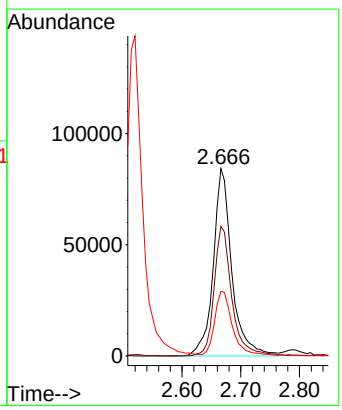


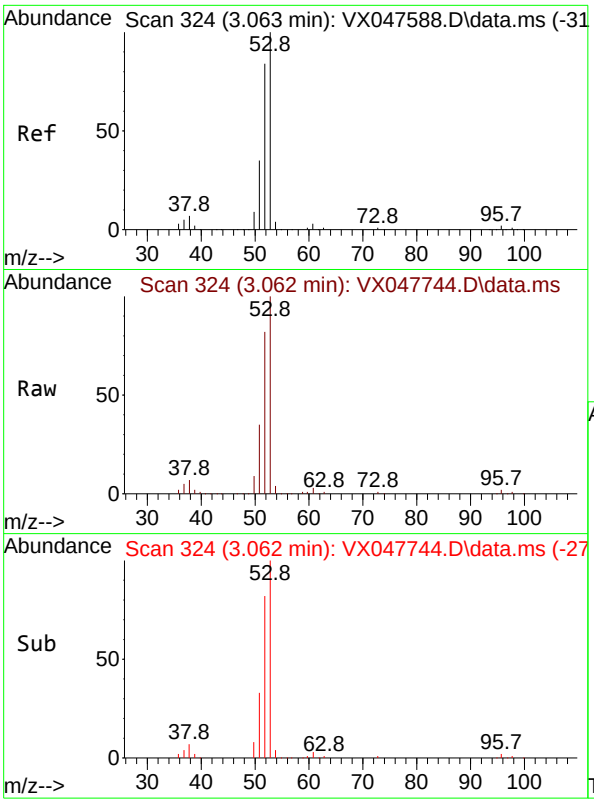


#14
Allyl chloride
Concen: 50.766 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 185829

Ion	Ratio	Lower	Upper
41	100		
39	65.8	54.7	82.1
76	33.1	25.7	38.5



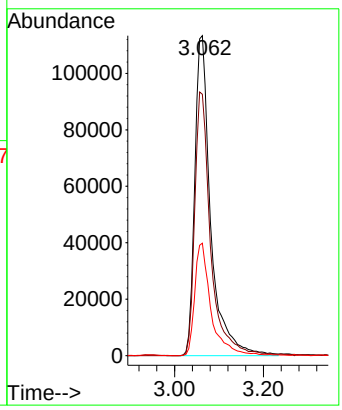


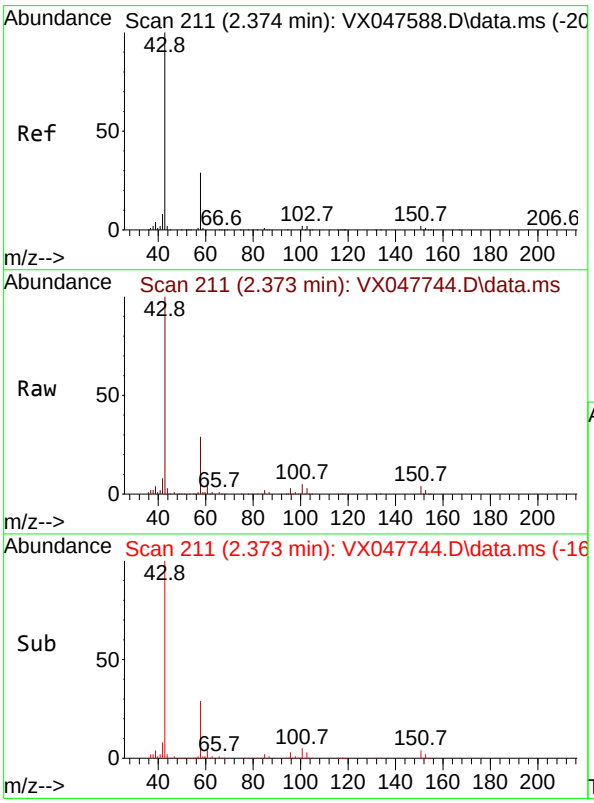
#15
Acrylonitrile
Concen: 288.375 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 282724

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.4	99.6
51	36.3	29.5	44.3

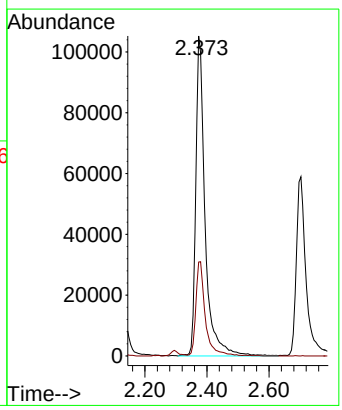


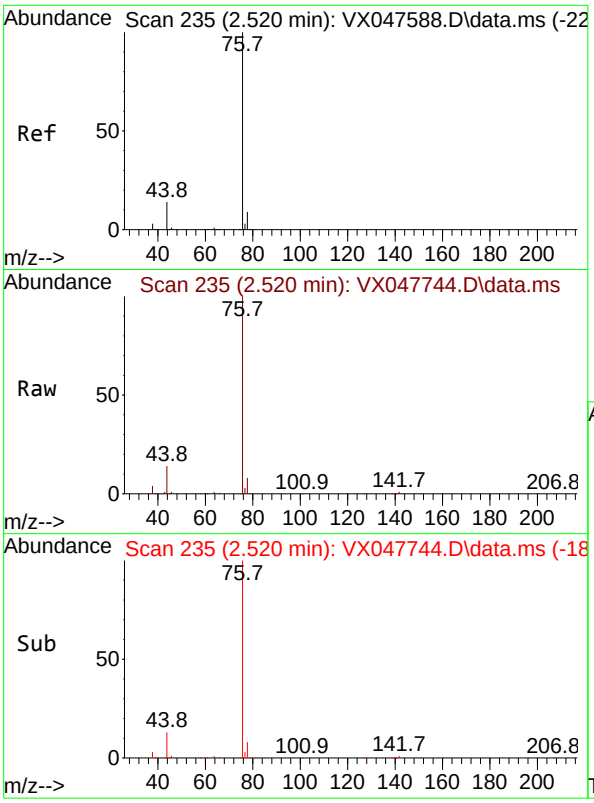


#16
Acetone
Concen: 212.978 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 220076

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0



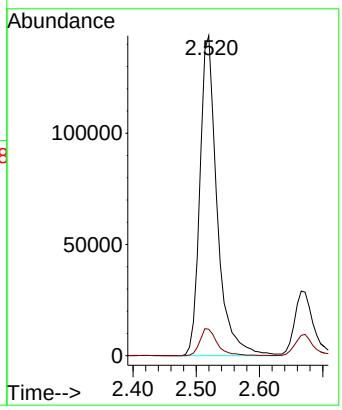


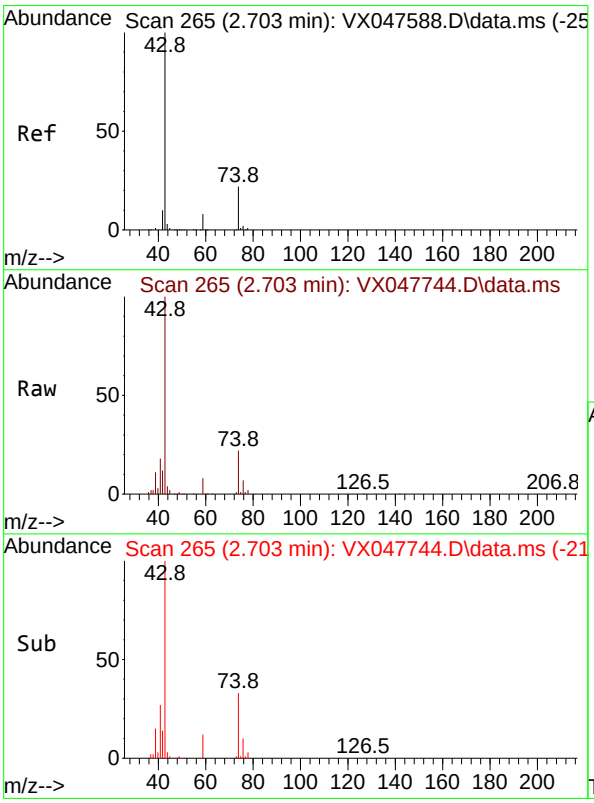
#17
Carbon Disulfide
Concen: 56.202 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 272927

Ion	Ratio	Lower	Upper
76	100		
78	8.3	6.8	10.2

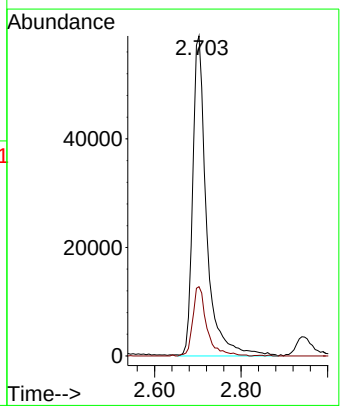


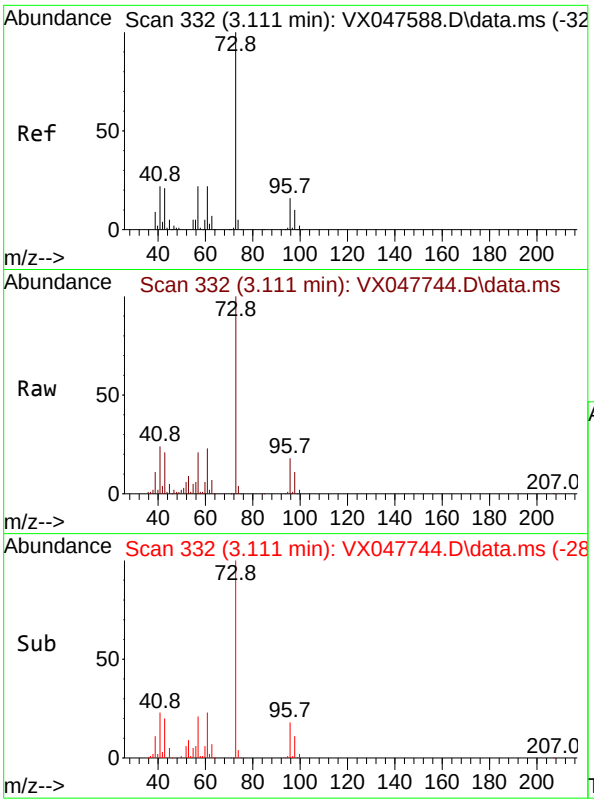


#18
Methyl Acetate
Concen: 56.883 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 130811

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2



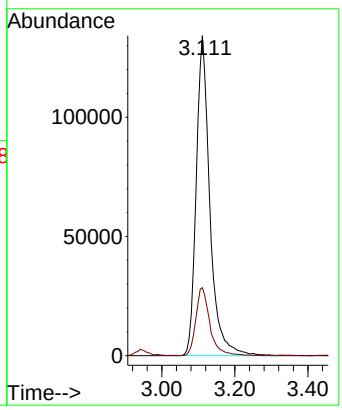


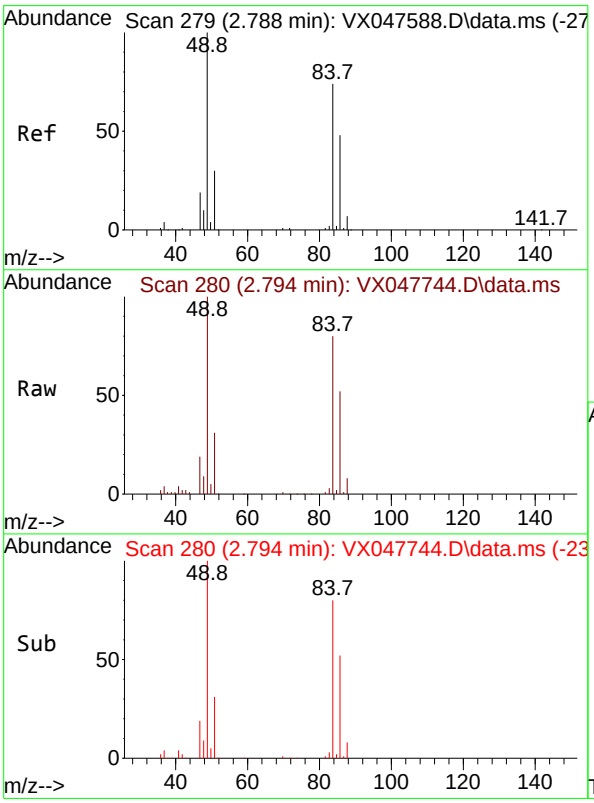
#19
Methyl tert-butyl Ether
Concen: 53.896 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 349001

Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.4	26.2

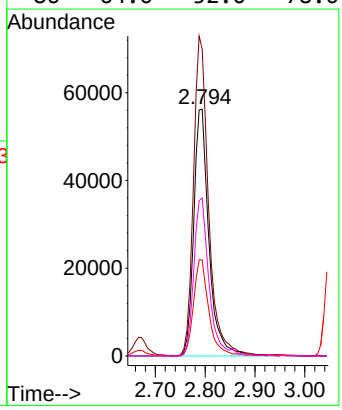


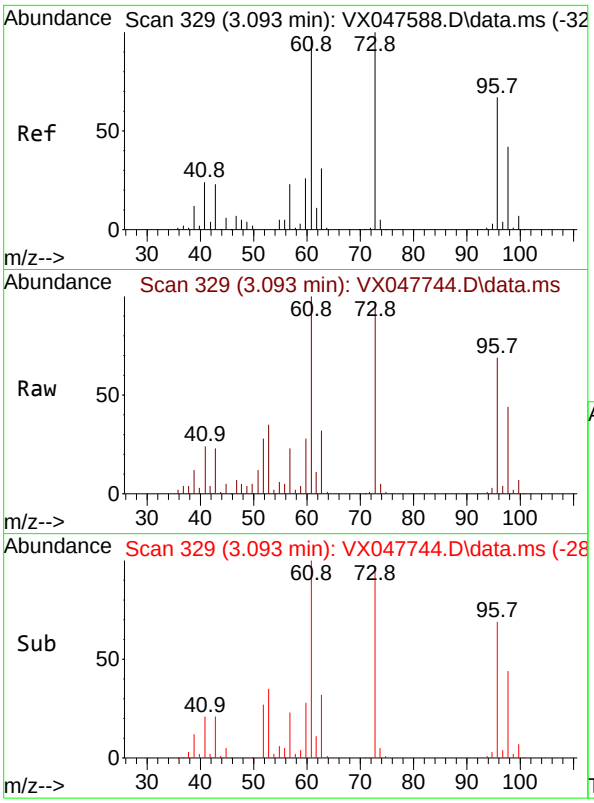


#20
Methylene Chloride
Concen: 54.405 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 84 Resp: 119000

Ion	Ratio	Lower	Upper
84	100		
49	124.1	108.6	162.8
51	38.9	32.6	48.8
86	64.0	52.0	78.0



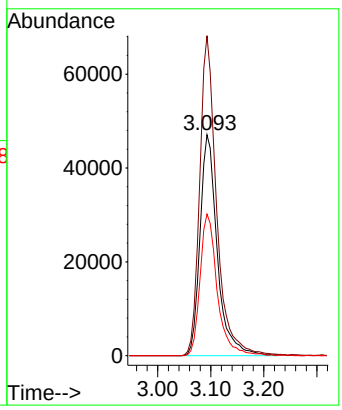


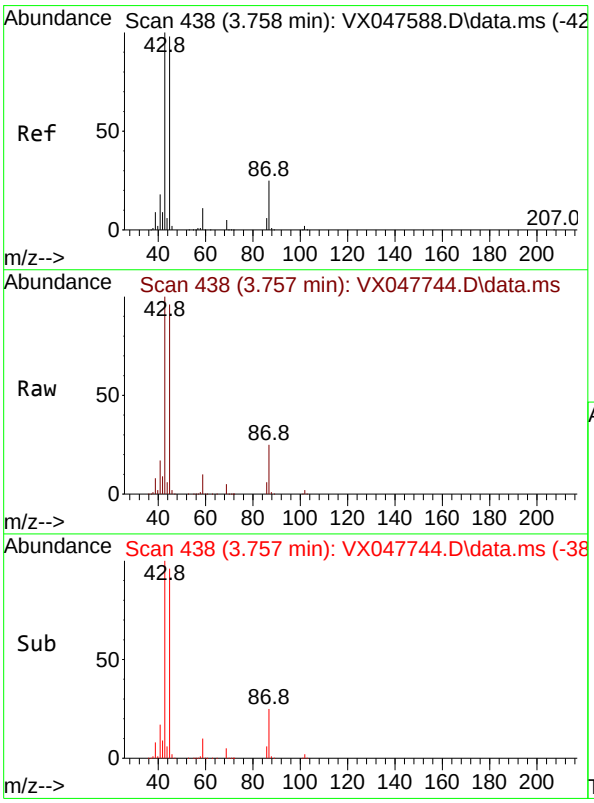
#21
trans-1,2-Dichloroethene
Concen: 55.907 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 106771

Ion	Ratio	Lower	Upper
96	100		
61	144.8	116.2	174.2
98	64.1	49.3	73.9

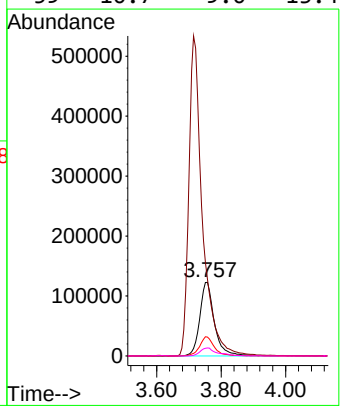


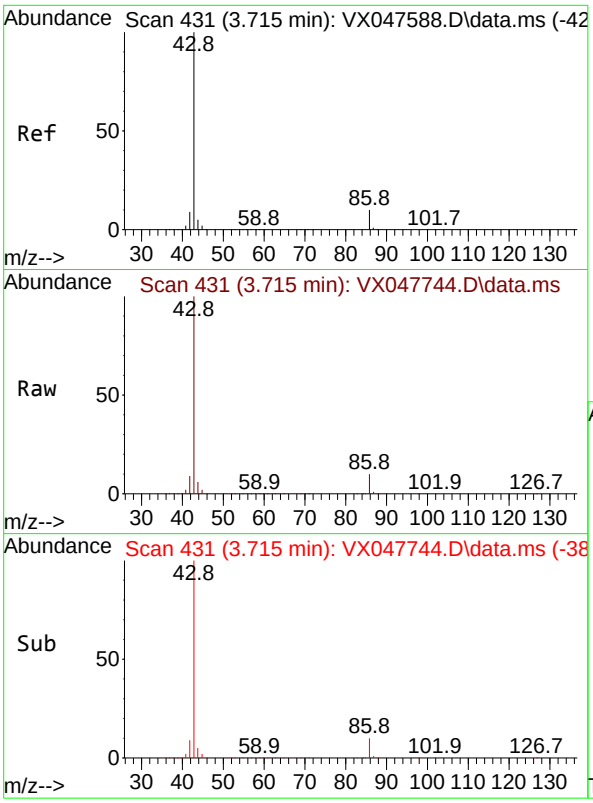


#22
Diisopropyl ether
Concen: 54.502 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 45 Resp: 386641

Ion	Ratio	Lower	Upper
45	100		
43	103.5	81.0	121.4
87	25.6	20.3	30.5
59	10.7	9.0	13.4



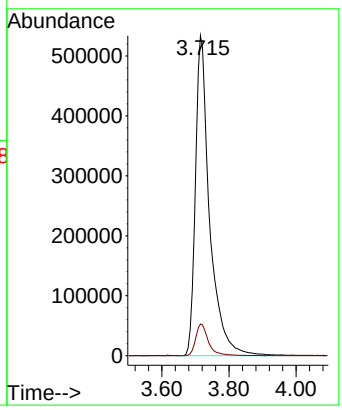


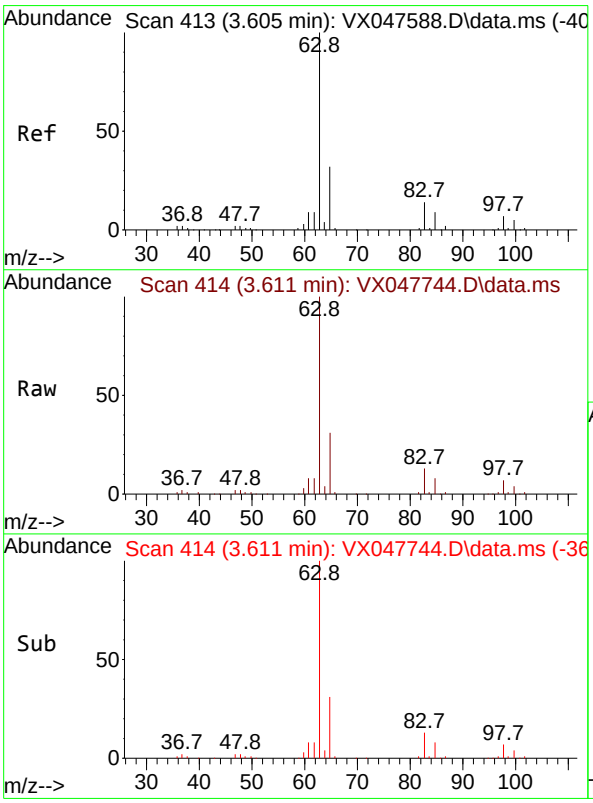
#23
Vinyl Acetate
Concen: 275.867 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1566296

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8

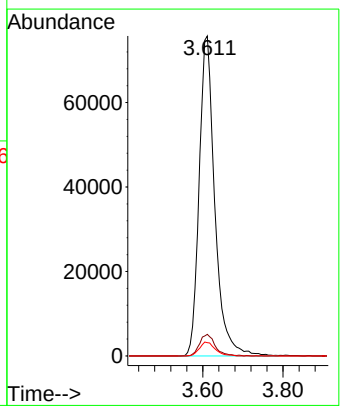


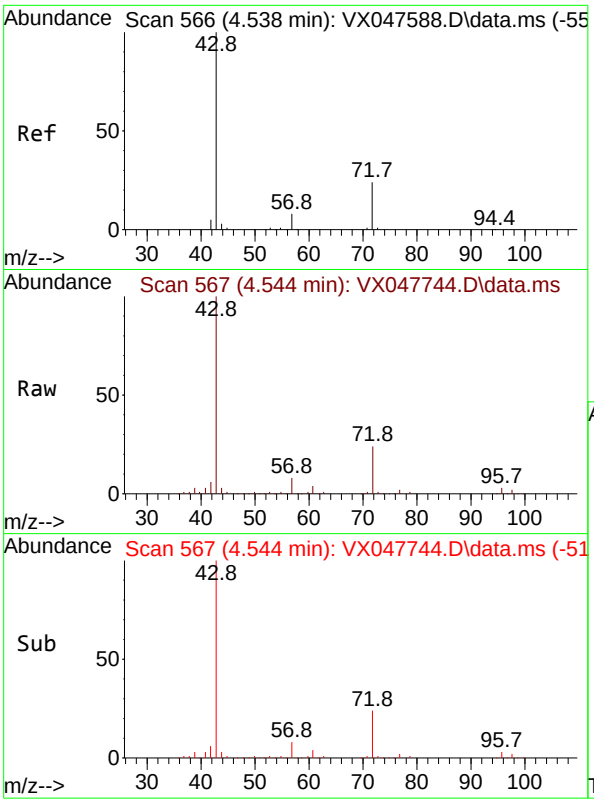


#24
1,1-Dichloroethane
Concen: 54.500 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 205496

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.8	11.2
100	4.2	2.3	6.9



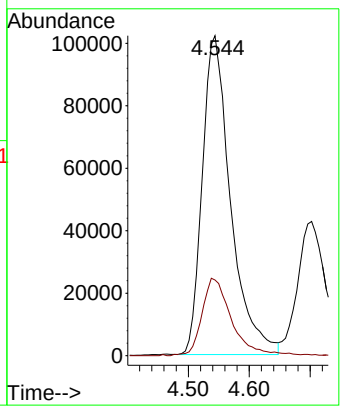


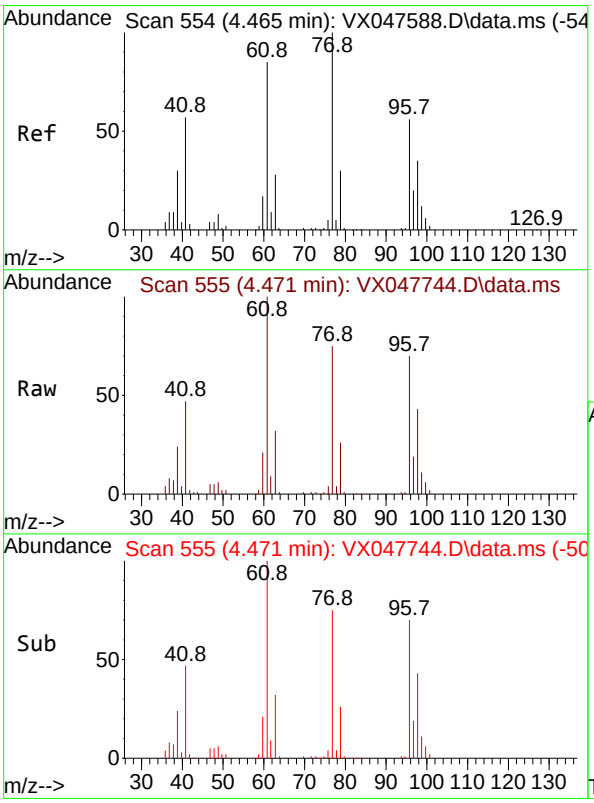
#25
2-Butanone
Concen: 256.128 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 330135

Ion	Ratio	Lower	Upper
43	100		
72	23.4	20.1	30.1

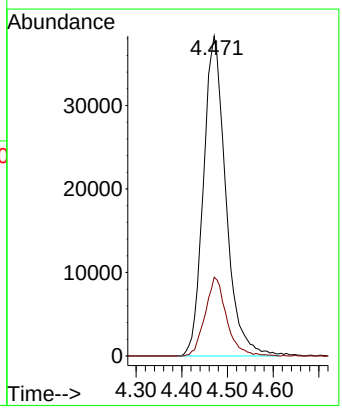


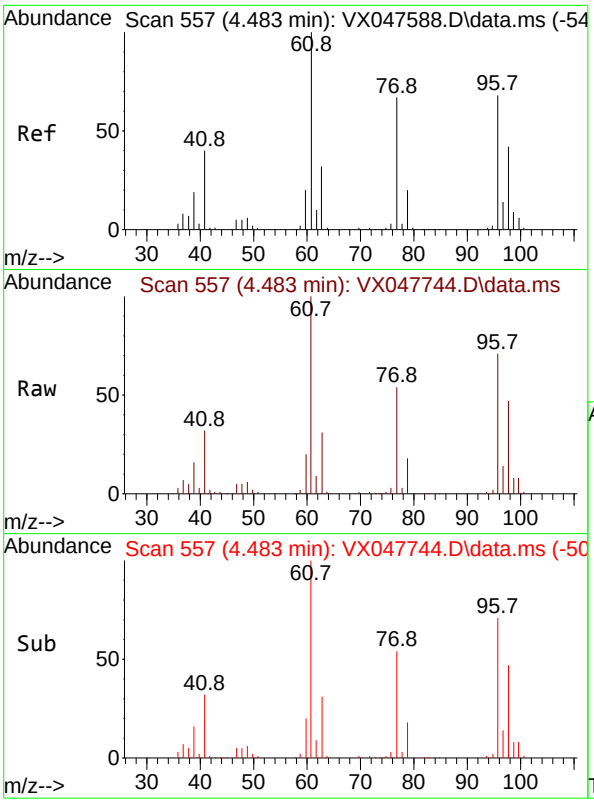


#26
2,2-Dichloropropane
Concen: 41.645 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 77 Resp: 130530

Ion	Ratio	Lower	Upper
77	100		
97	23.5	10.9	32.7



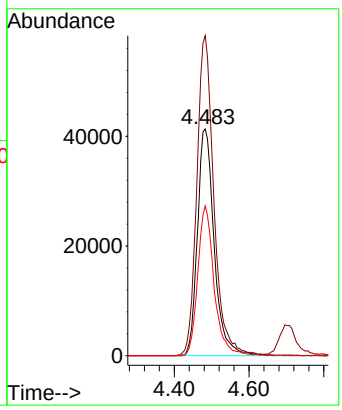


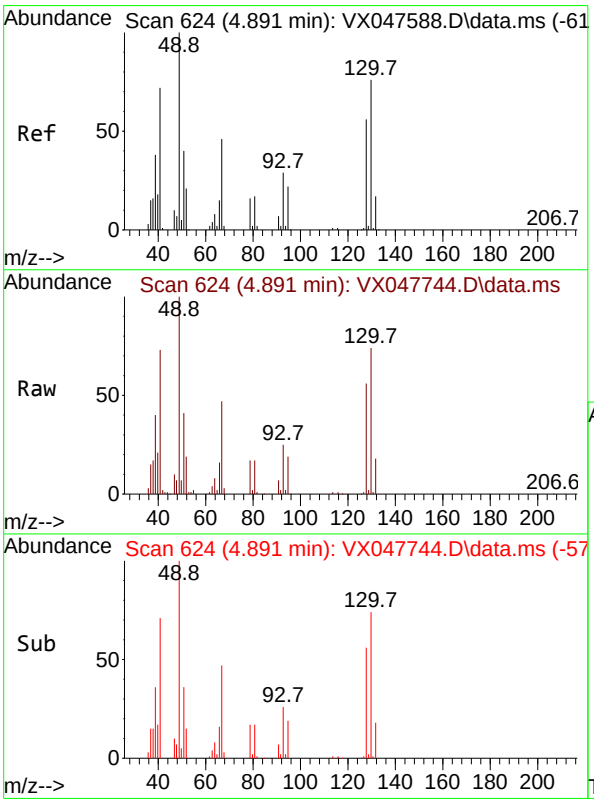
#27
cis-1,2-Dichloroethene
Concen: 55.058 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 128773

Ion	Ratio	Lower	Upper
96	100		
61	143.3	0.0	303.2
98	64.2	0.0	127.8

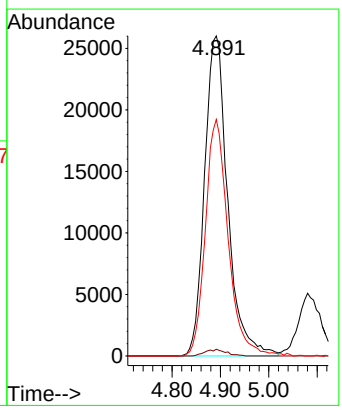


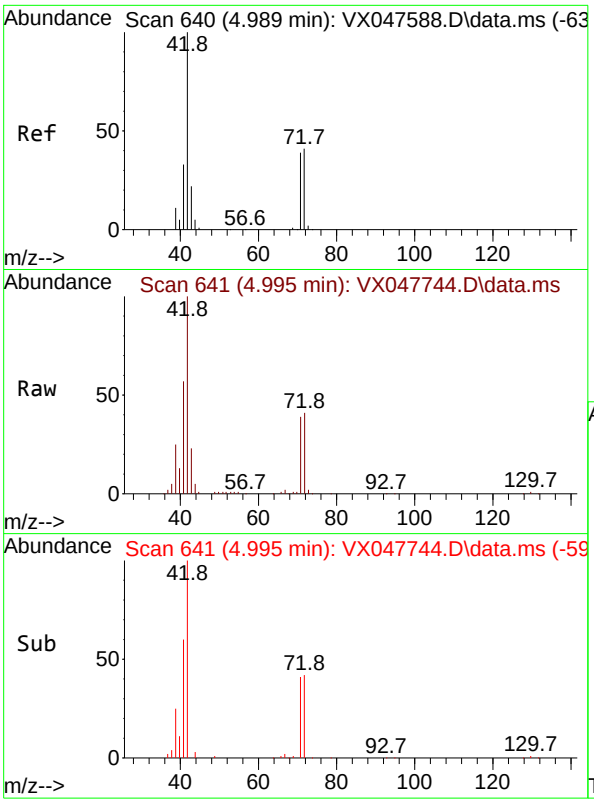


#28
Bromochloromethane
Concen: 52.489 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 49 Resp: 86403

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.8	57.8	86.8



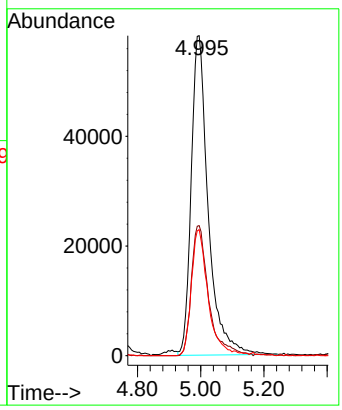


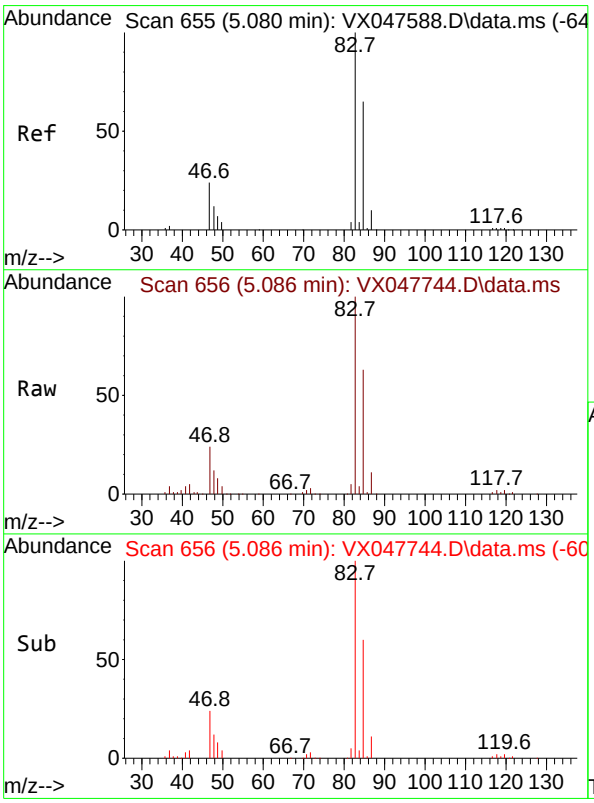
#29
Tetrahydrofuran
Concen: 281.124 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 217984

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	39.0	31.9	47.9

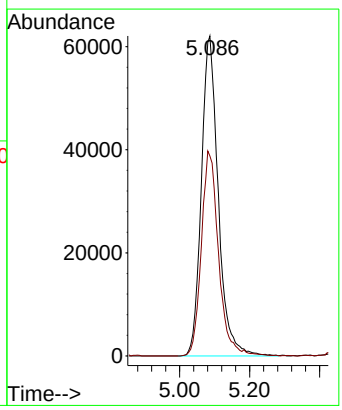


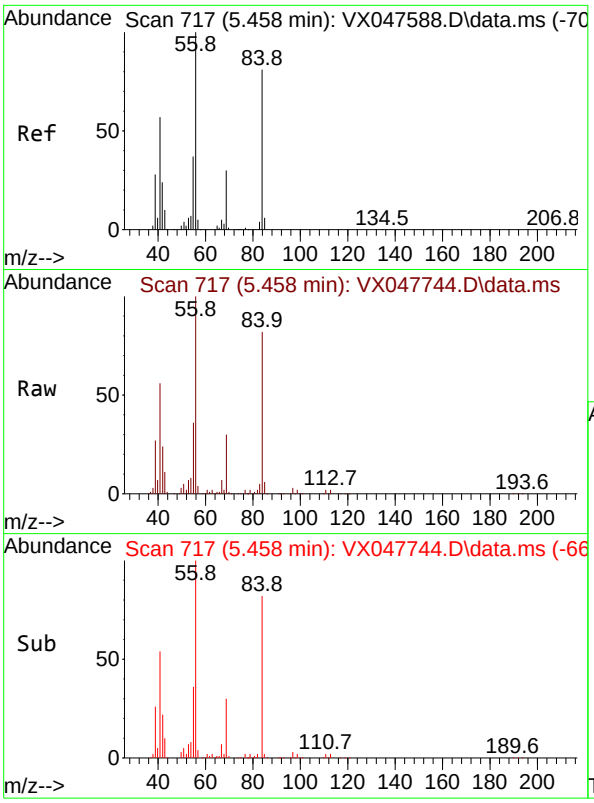


#30
Chloroform
Concen: 54.504 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 83 Resp: 207673

Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.8	77.6



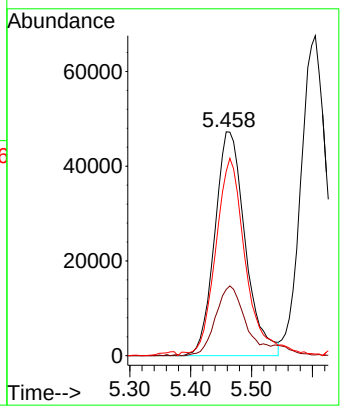


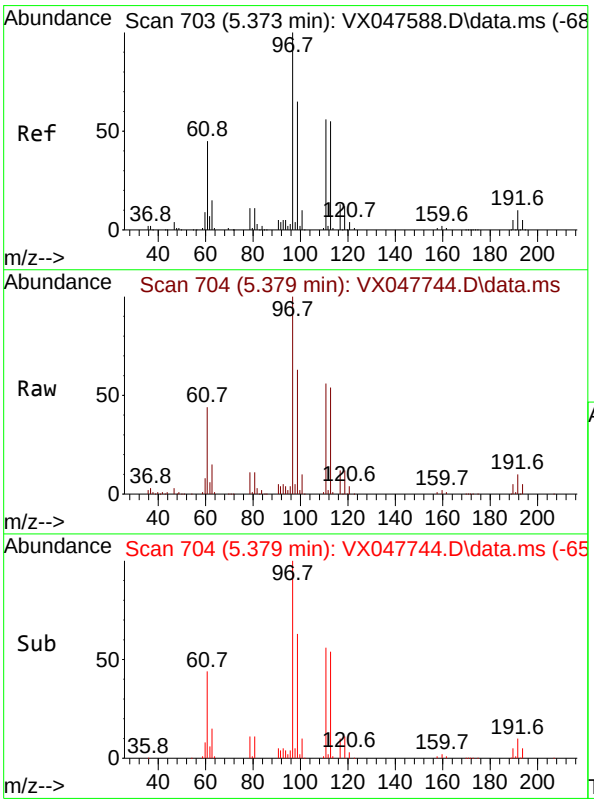
#31
Cyclohexane
Concen: 52.311 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 164278

Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.8	35.8
84	82.3	64.6	97.0

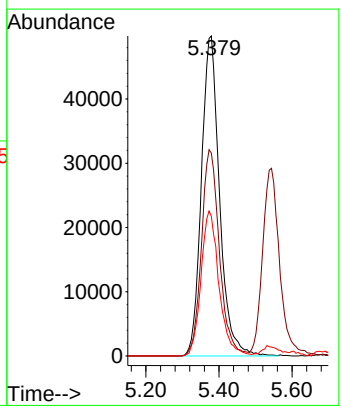


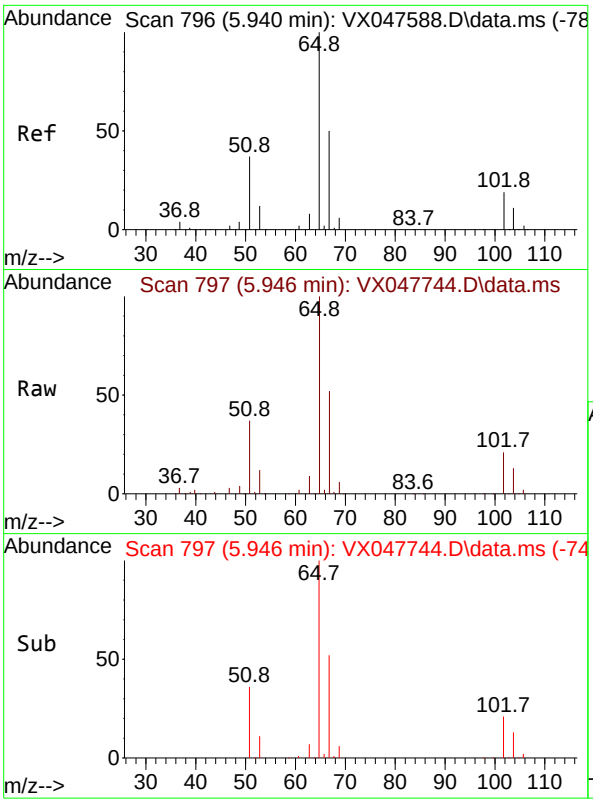


#32
1,1,1-Trichloroethane
Concen: 53.110 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 97 Resp: 171647

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	45.0	35.8	53.8



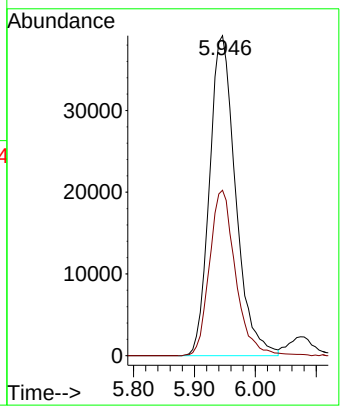


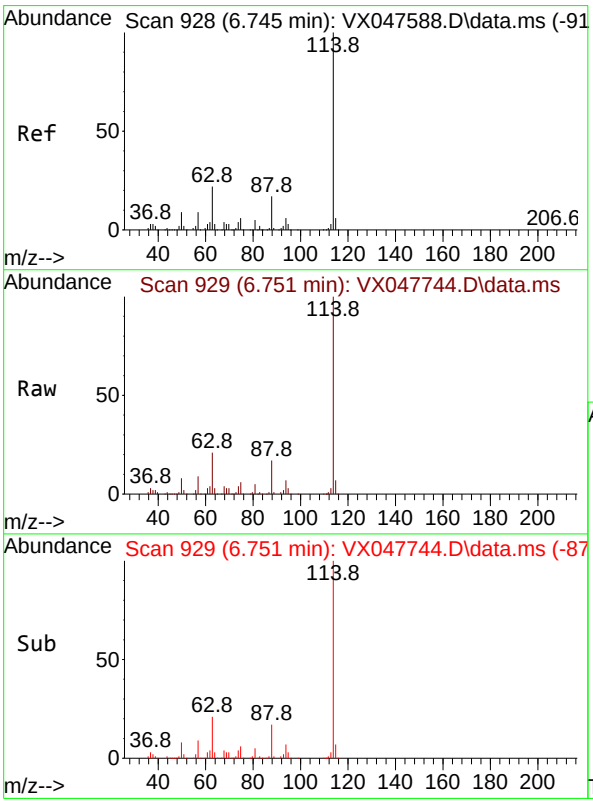
#33
1,2-Dichloroethane-d4
Concen: 49.065 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 116606

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	103.0

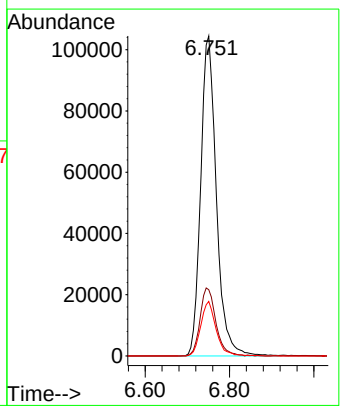


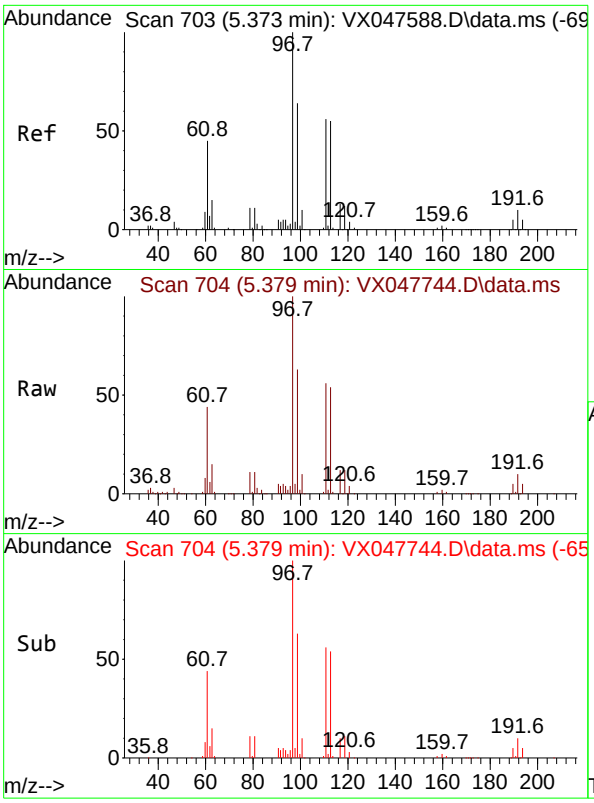


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:114 Resp: 270355

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	44.0
88	17.1	0.0	34.2



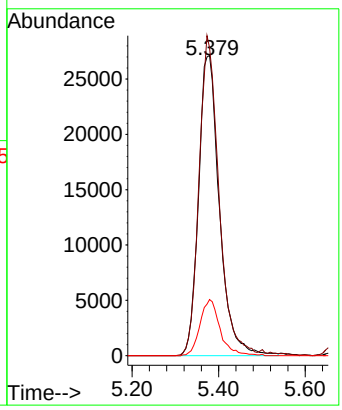


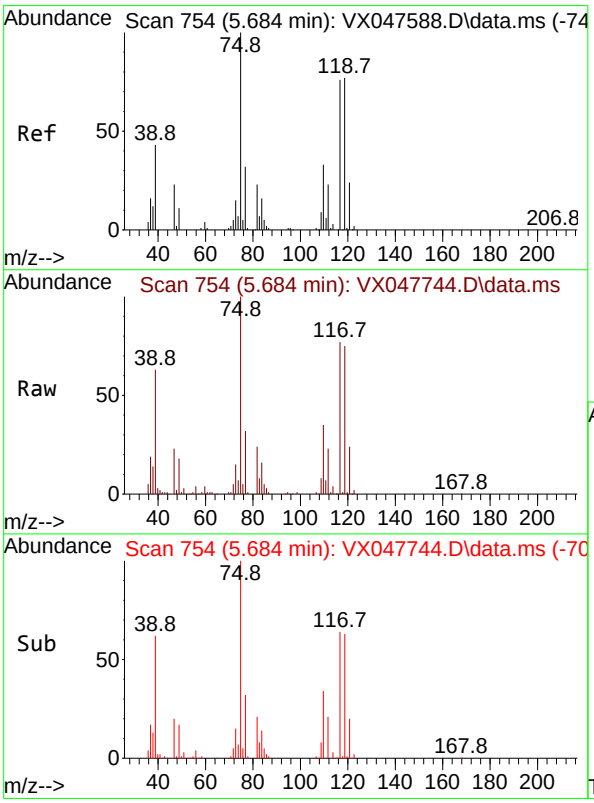
#35
Dibromofluoromethane
Concen: 50.112 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 90861

Ion	Ratio	Lower	Upper
113	100		
111	101.7	80.9	121.3
192	18.0	14.2	21.4

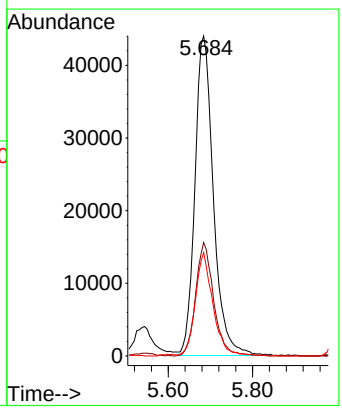


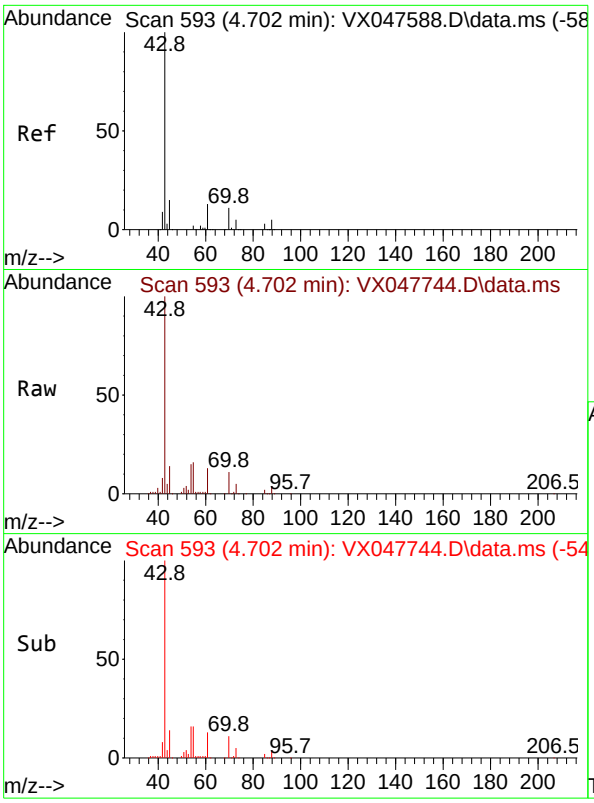


#36
1,1-Dichloropropene
Concen: 50.792 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 134570

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	30.3	24.3	36.5



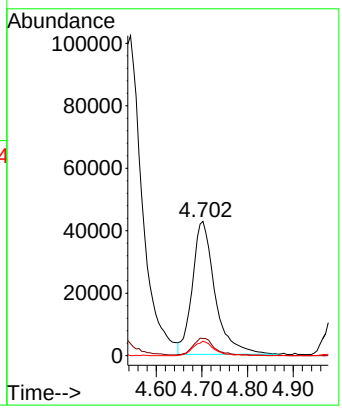


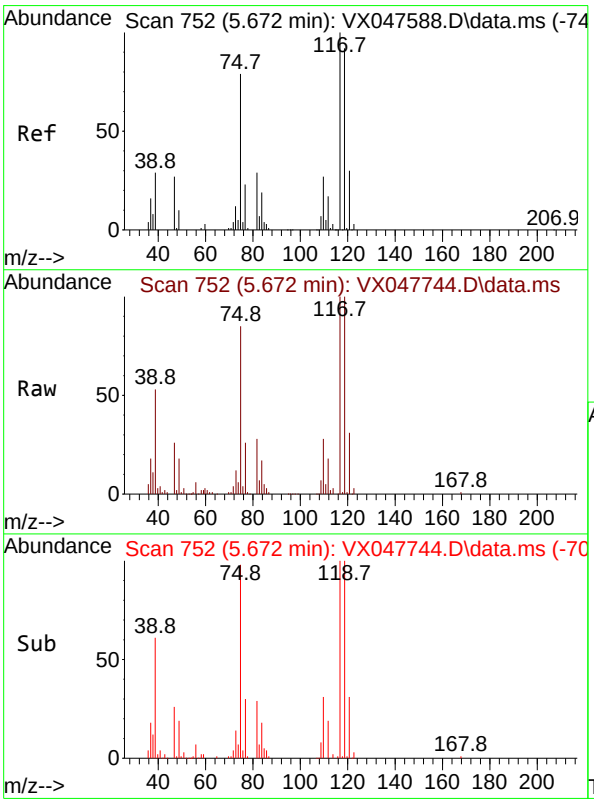
#37
Ethyl Acetate
Concen: 51.600 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 146380

Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.7	7.9	11.9

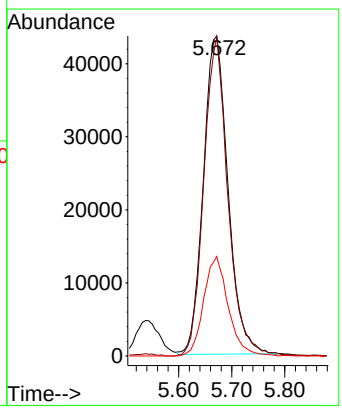


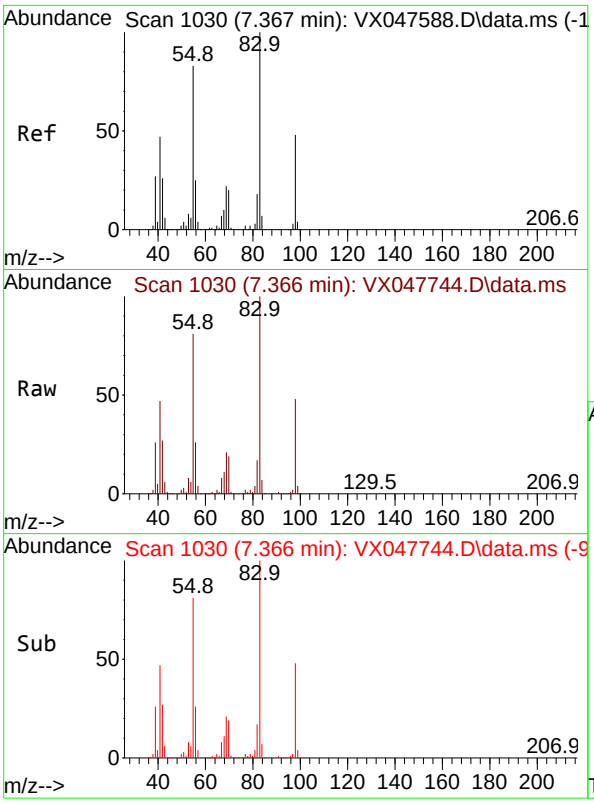


#38
Carbon Tetrachloride
Concen: 49.026 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:117 Resp: 141128

Ion	Ratio	Lower	Upper
117	100		
119	100.0	73.4	110.2
121	31.2	23.8	35.6



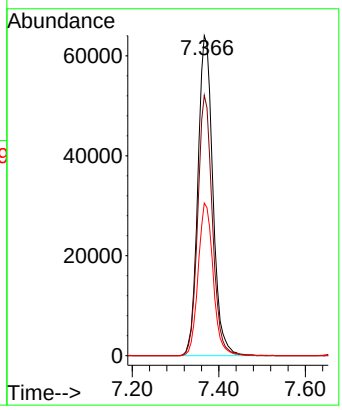


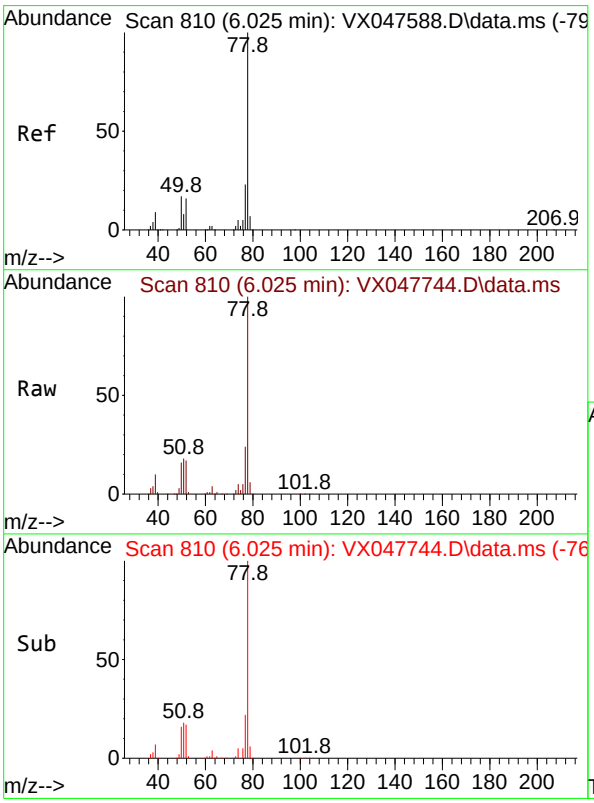
#39
Methylcyclohexane
Concen: 51.142 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 153808

Ion	Ratio	Lower	Upper
83	100		
55	81.4	66.4	99.6
98	47.7	38.1	57.1

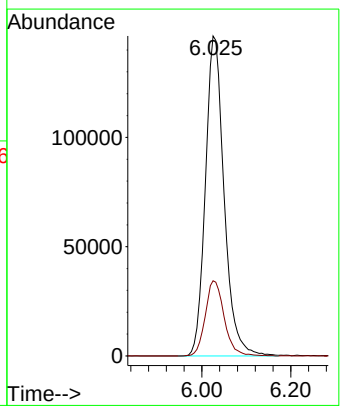


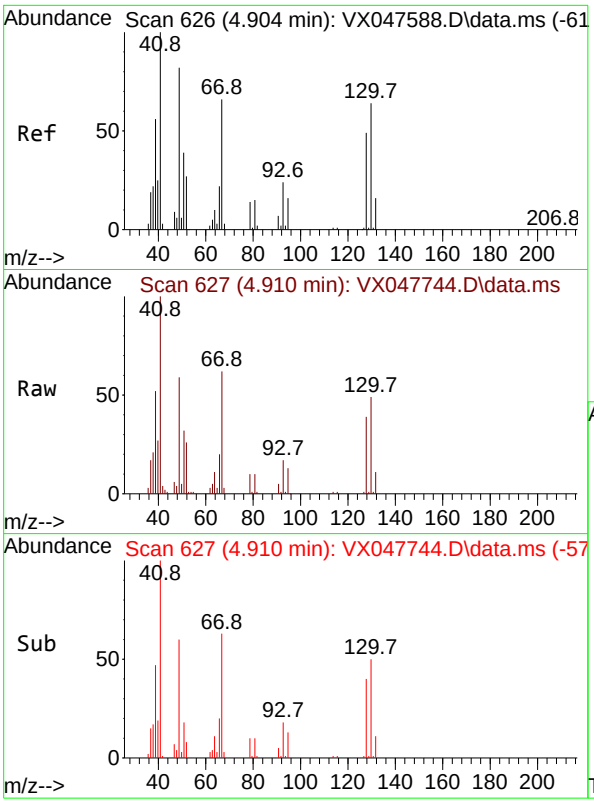


#40
Benzene
Concen: 53.282 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 78 Resp: 428760

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



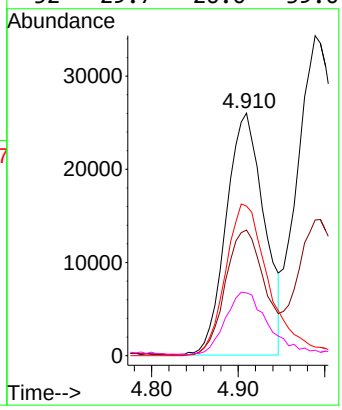


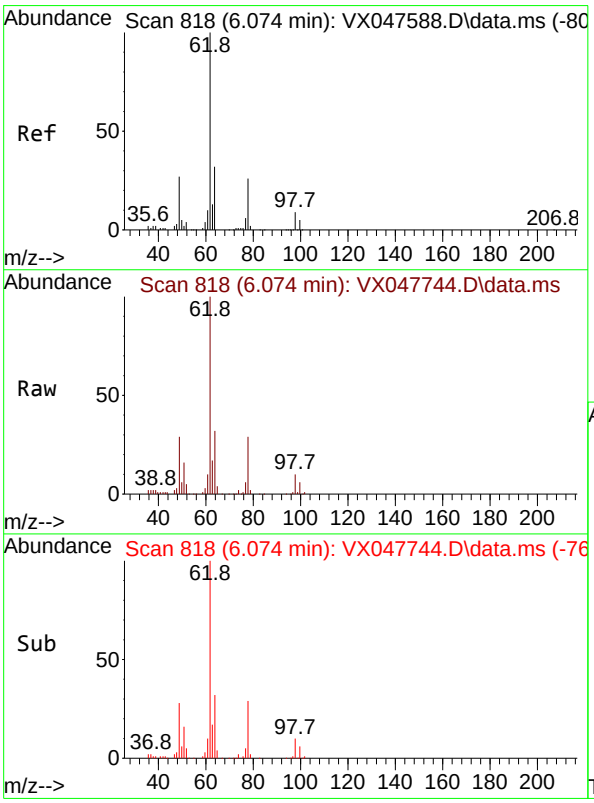
#41
Methacrylonitrile
Concen: 54.104 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 79236

Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.3	64.9
67	71.6	58.6	87.8
52	29.7	26.0	39.0

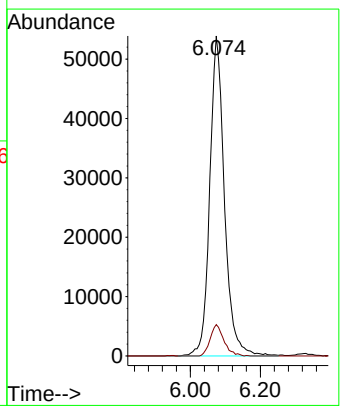


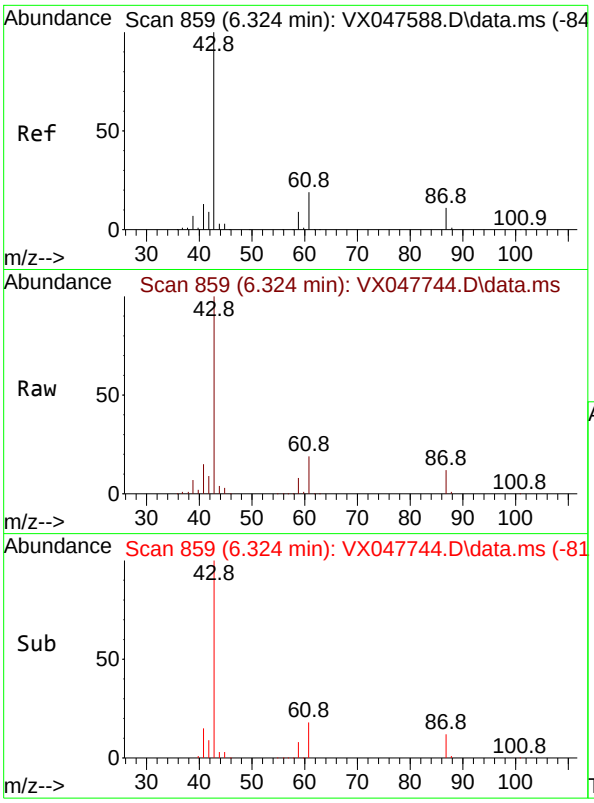


#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 62 Resp: 157471

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0



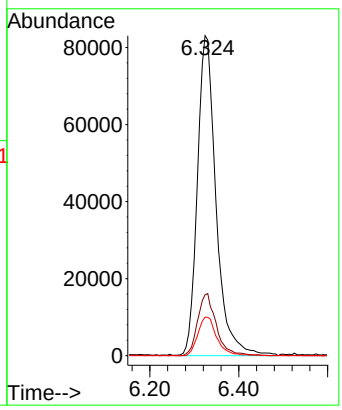


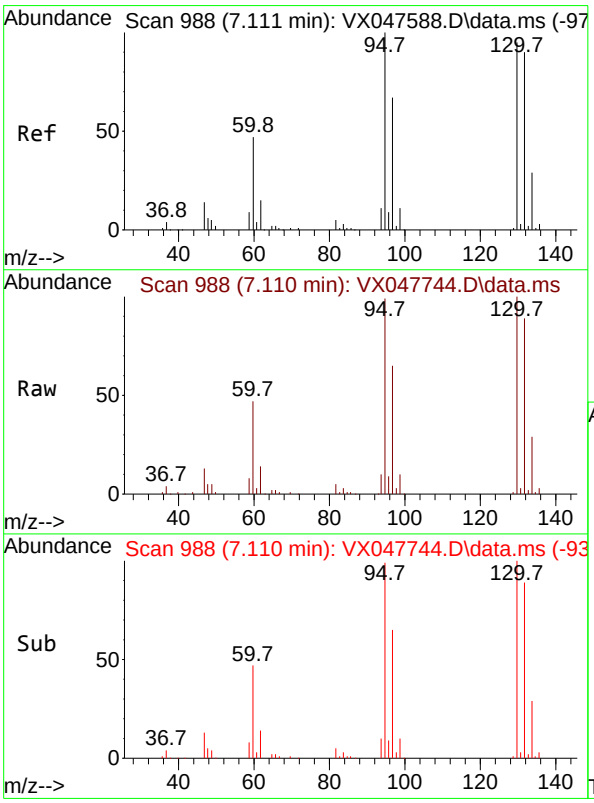
#43
Isopropyl Acetate
Concen: 52.327 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 243453

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.2	9.6	14.4

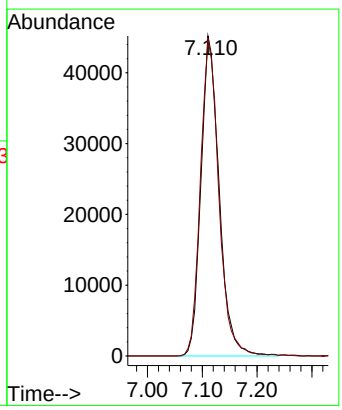


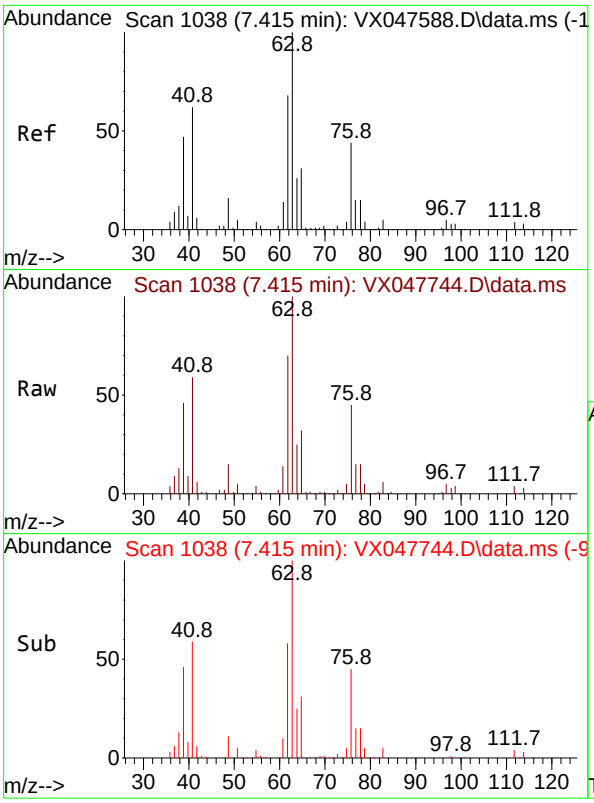


#44
Trichloroethene
Concen: 53.576 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:130 Resp: 104230

Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	210.8



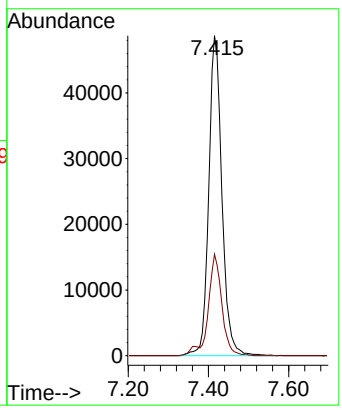


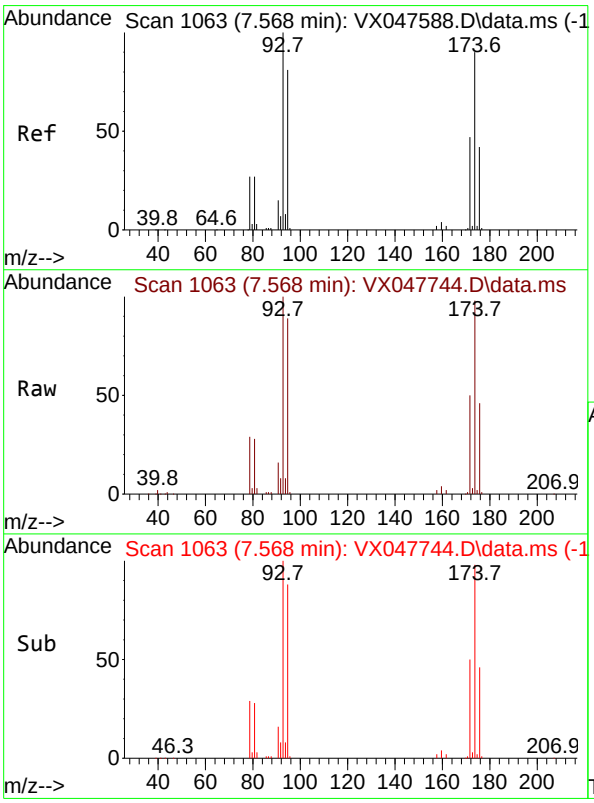
#45
1,2-Dichloropropane
Concen: 53.818 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 110894

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.7	37.1

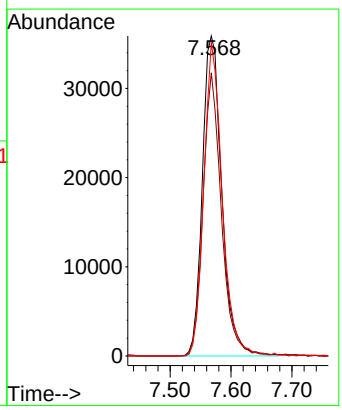


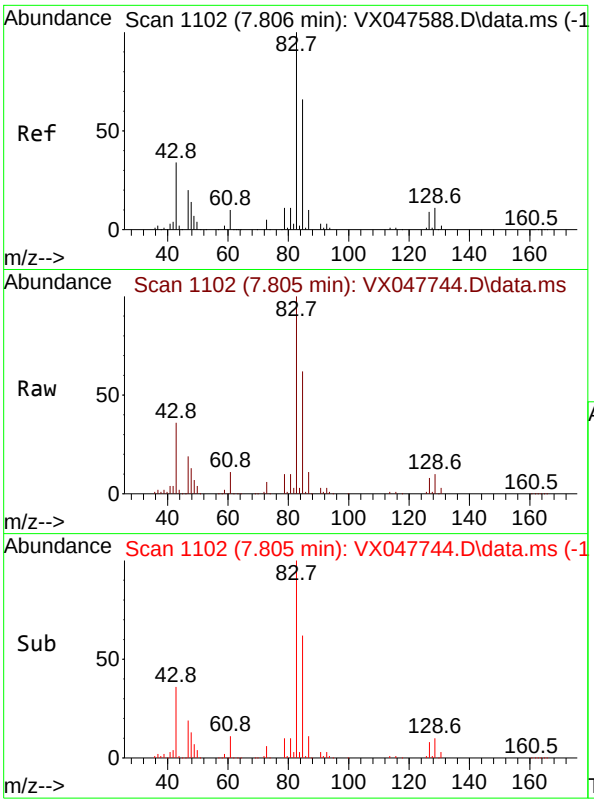


#46
Dibromomethane
Concen: 53.104 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 93 Resp: 79627

Ion	Ratio	Lower	Upper
93	100		
95	83.6	65.0	97.6
174	92.5	71.6	107.4



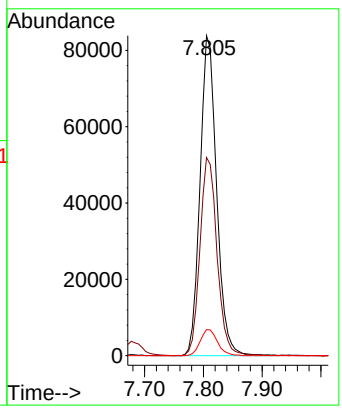


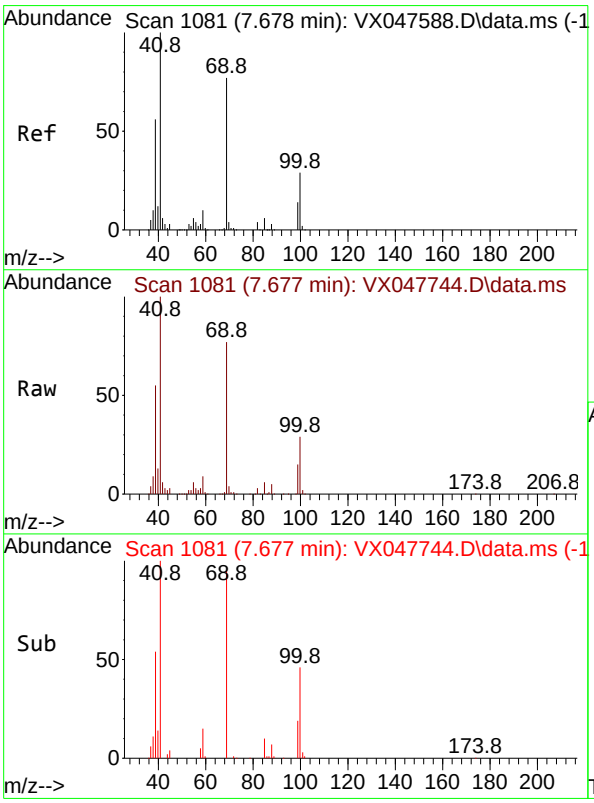
#47
Bromodichloromethane
Concen: 53.077 ug/l
RT: 7.805 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 164232

Ion	Ratio	Lower	Upper
83	100		
85	61.8	52.5	78.7
127	8.1	6.9	10.3

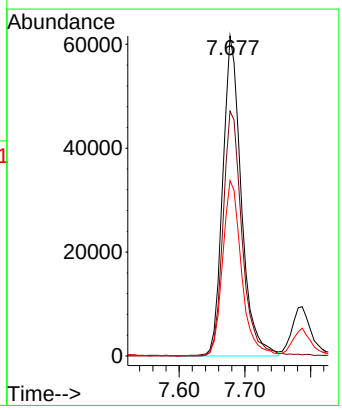


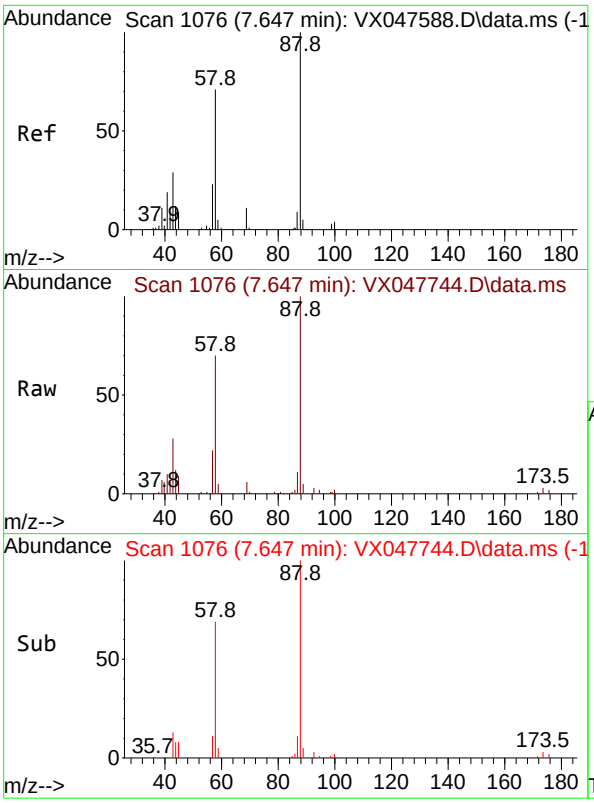


#48
Methyl methacrylate
Concen: 52.283 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 41 Resp: 121164

Ion	Ratio	Lower	Upper
41	100		
69	78.9	61.4	92.2
39	55.7	45.8	68.6



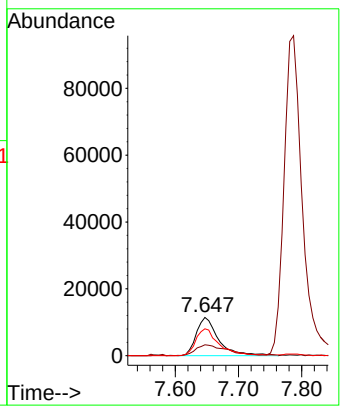


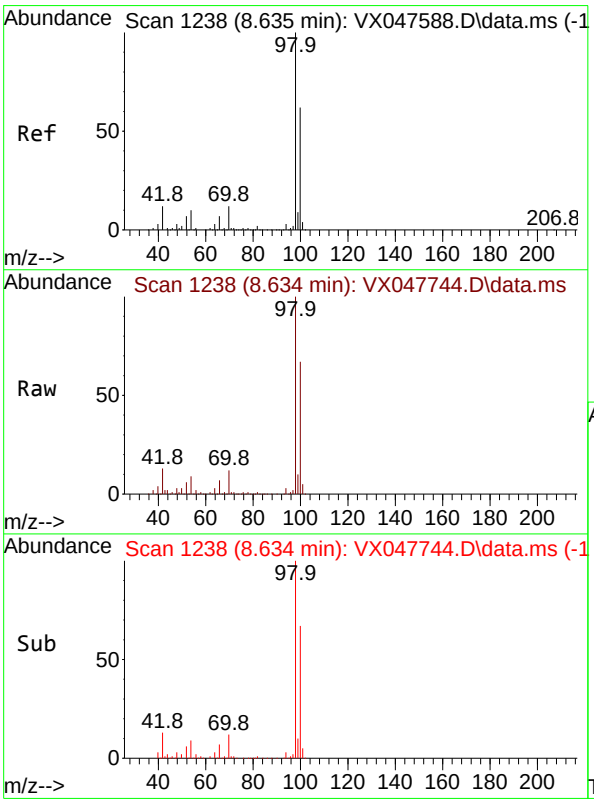
#49
1,4-Dioxane
Concen: 1196.046 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 28012

Ion	Ratio	Lower	Upper
88	100		
43	39.5	30.2	45.2
58	74.0	59.5	89.3

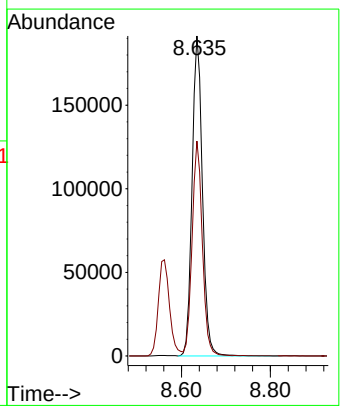


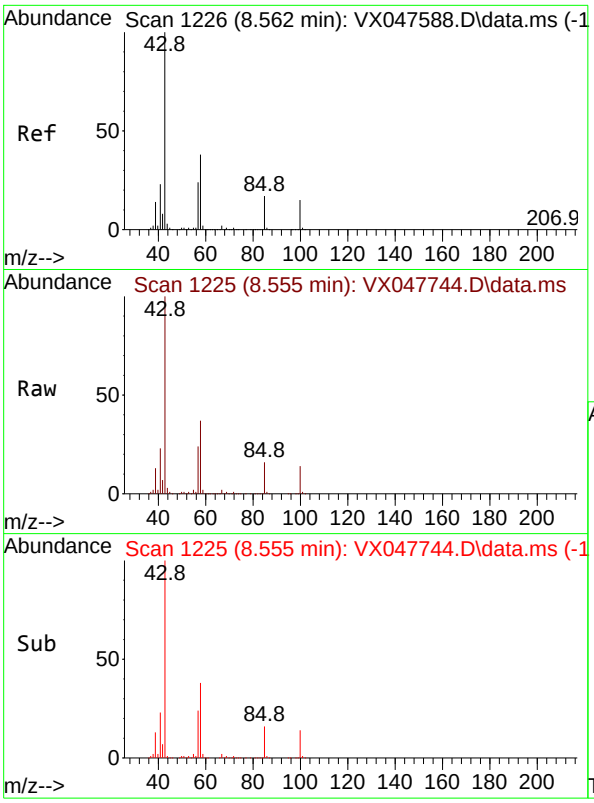


#50
Toluene-d8
Concen: 49.087 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 98 Resp: 307967

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4



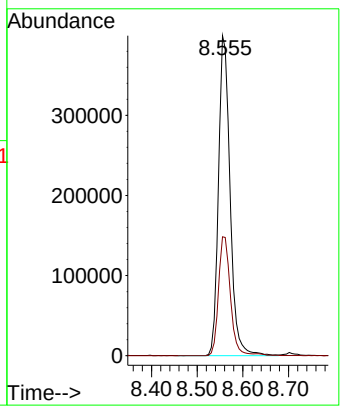


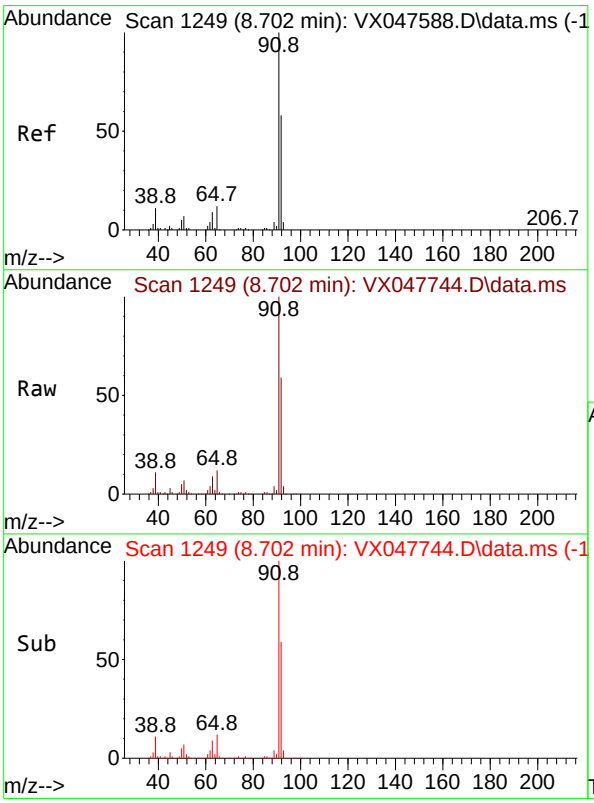
#51
4-Methyl-2-Pentanone
Concen: 272.809 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 703728

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

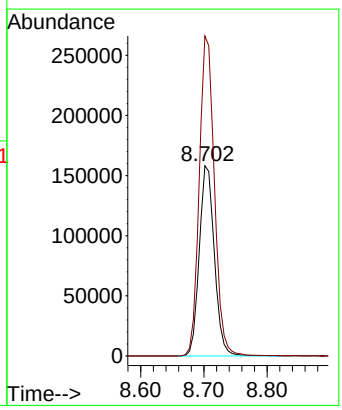


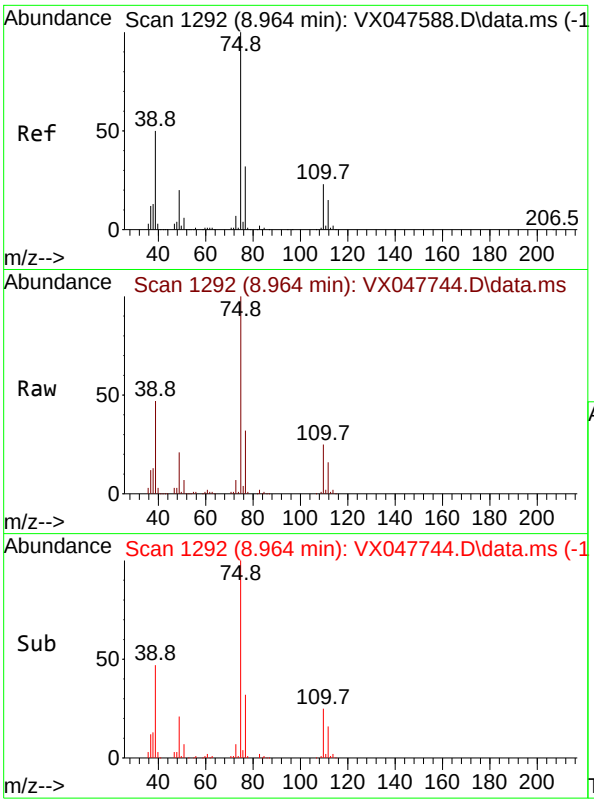


#52
Toluene
Concen: 53.113 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 92 Resp: 263320

Ion	Ratio	Lower	Upper
92	100		
91	169.0	137.1	205.7



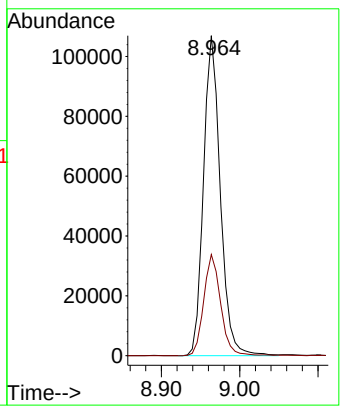


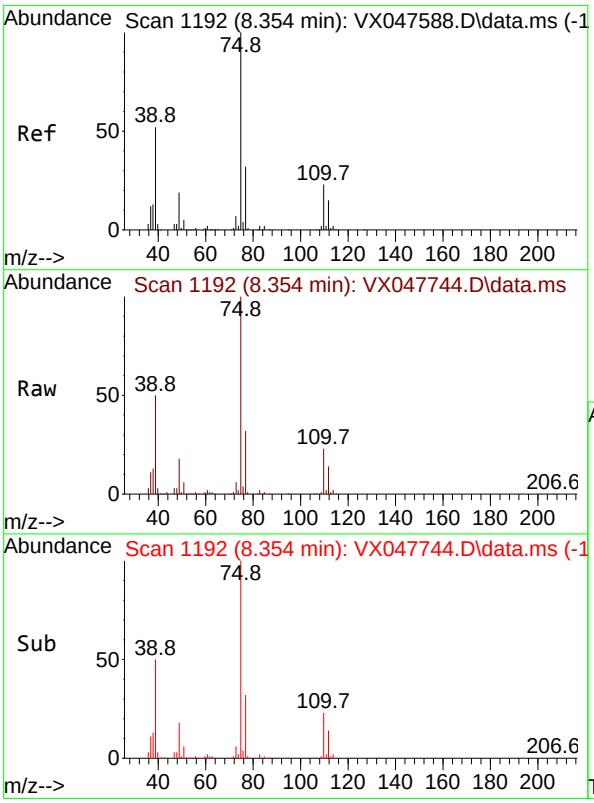
#53
t-1,3-Dichloropropene
Concen: 50.499 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 159381

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

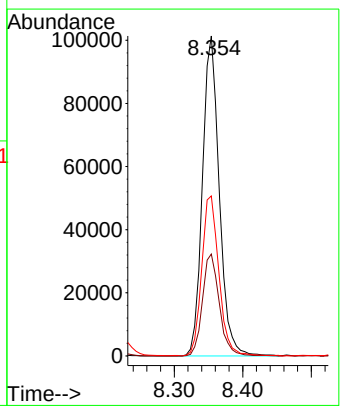


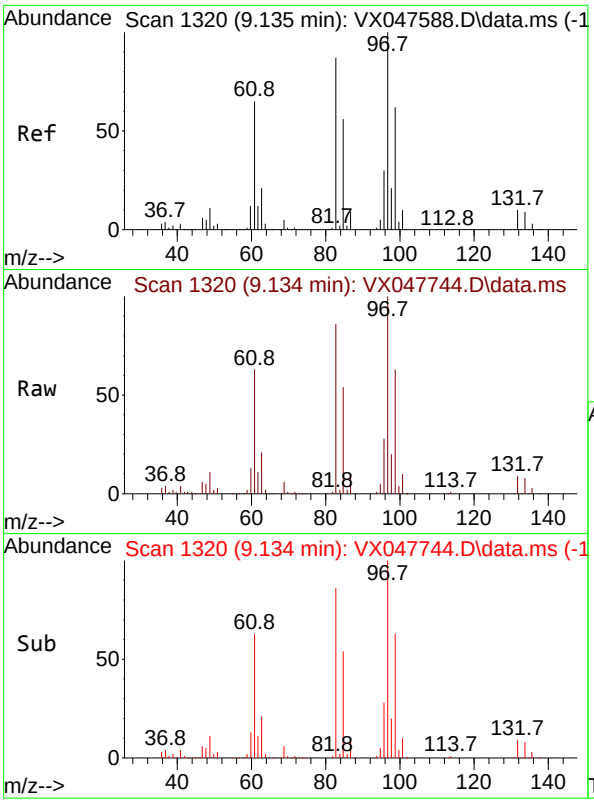


#54
cis-1,3-Dichloropropene
Concen: 51.421 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 173466

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.8	38.6
39	49.8	41.4	62.2



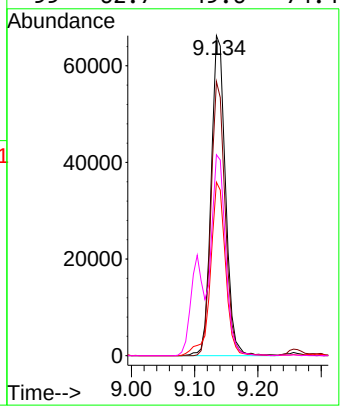


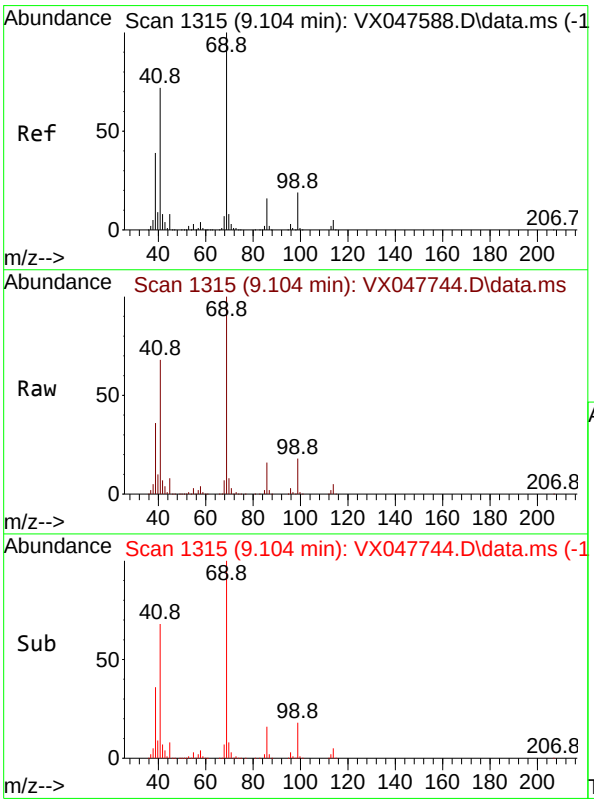
#55
1,1,2-Trichloroethane
Concen: 54.692 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 104553

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.6	104.4
85	54.2	45.0	67.6
99	62.7	49.6	74.4

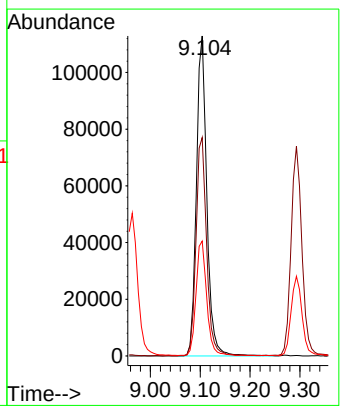


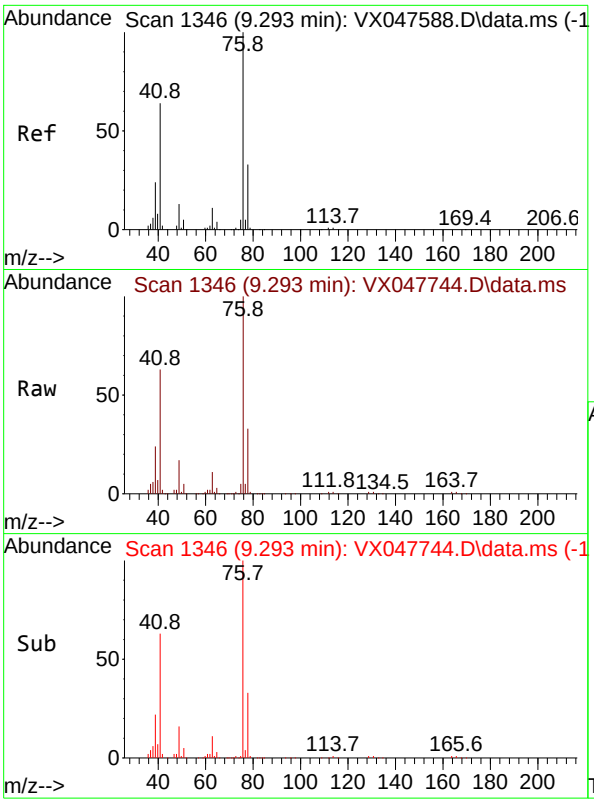


#56
Ethyl methacrylate
Concen: 54.448 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 69 Resp: 163467

Ion	Ratio	Lower	Upper
69	100		
41	69.6	58.6	87.8
39	36.6	31.5	47.3



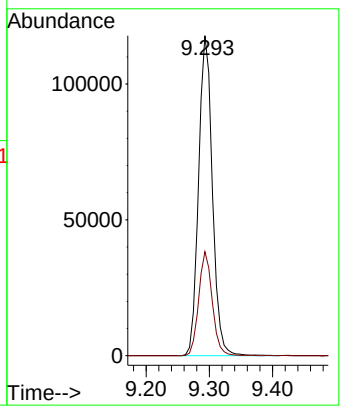


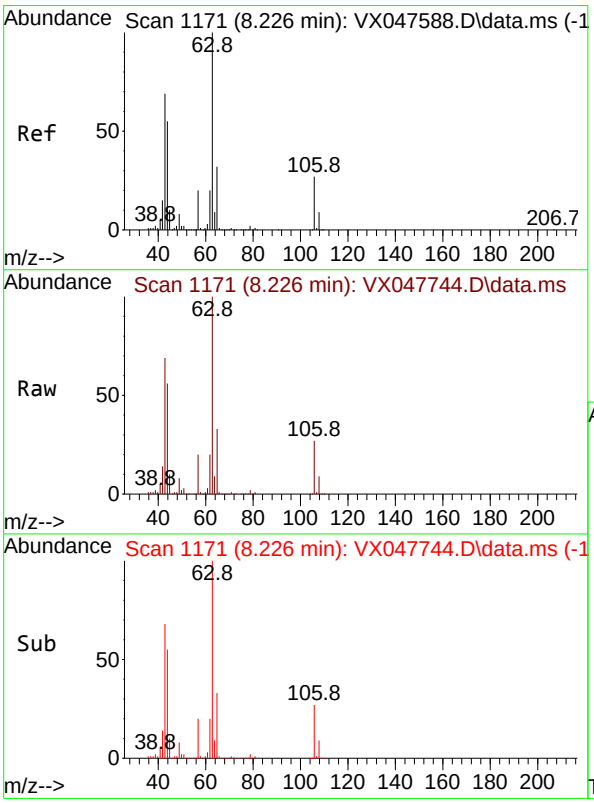
#57
1,3-Dichloropropane
Concen: 54.560 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 179171

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.4

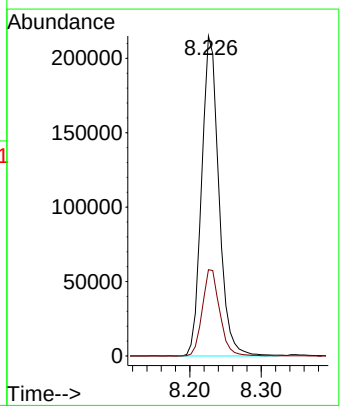


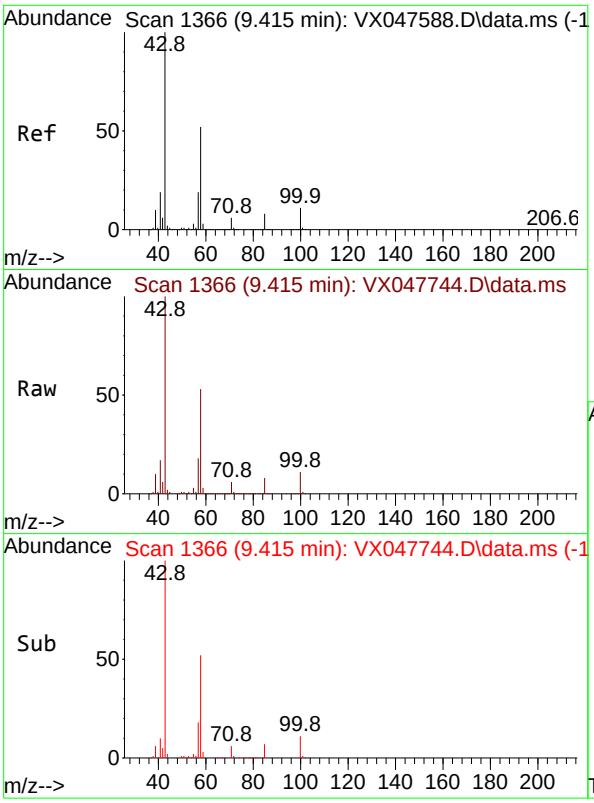


#58
2-Chloroethyl Vinyl ether
Concen: 251.172 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 63 Resp: 360369

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.9	32.9



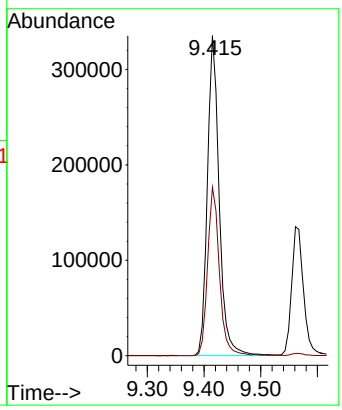


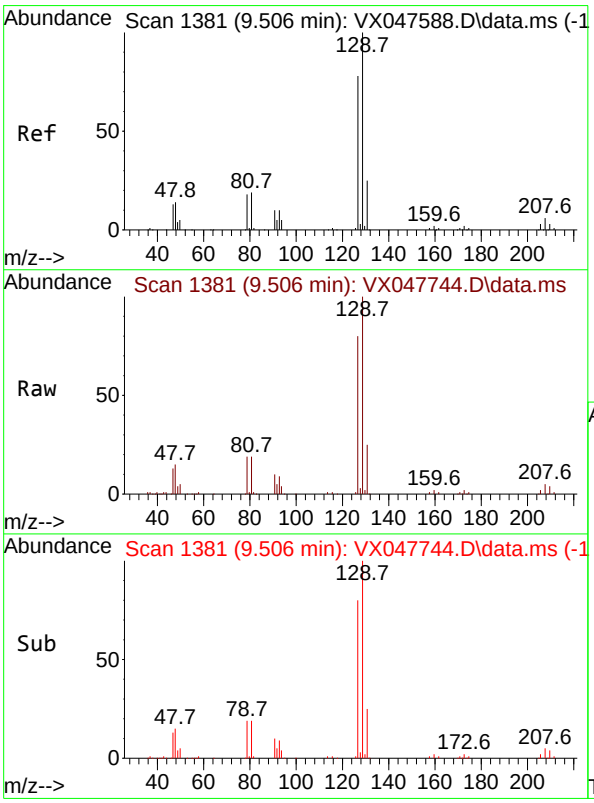
#59
2-Hexanone
Concen: 260.895 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 483347

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2

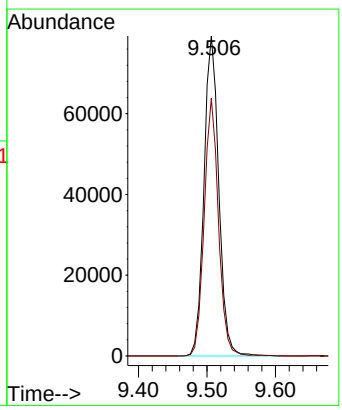


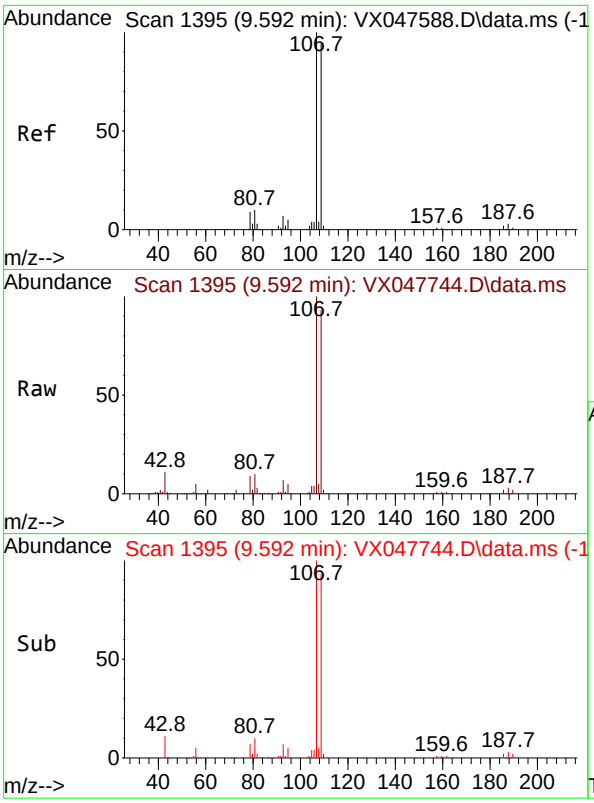


#60
Dibromochloromethane
Concen: 54.078 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:129 Resp: 119117

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.4	115.2



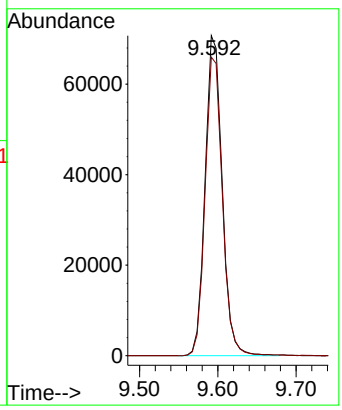


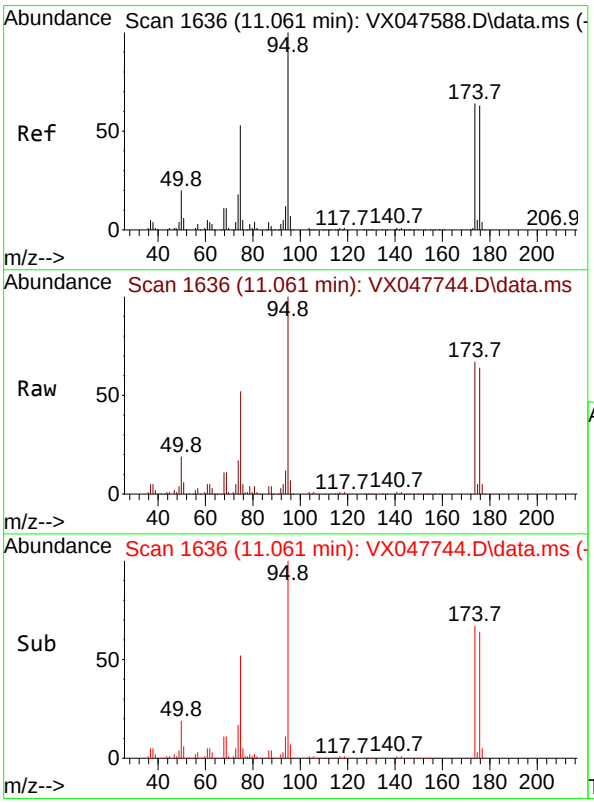
#61
1,2-Dibromoethane
Concen: 54.937 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 106971

Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.3	112.9

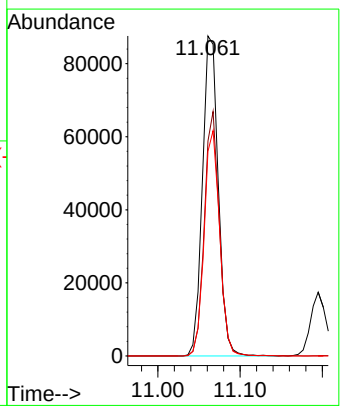


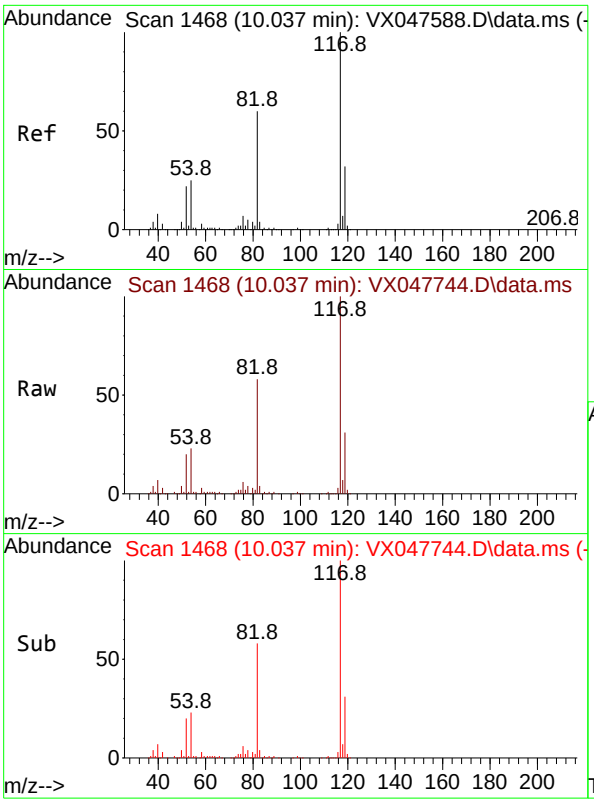


#62
4-Bromofluorobenzene
Concen: 49.307 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 95 Resp: 117402

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	141.6
176	69.0	0.0	138.4



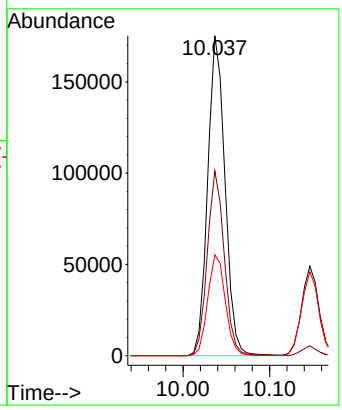


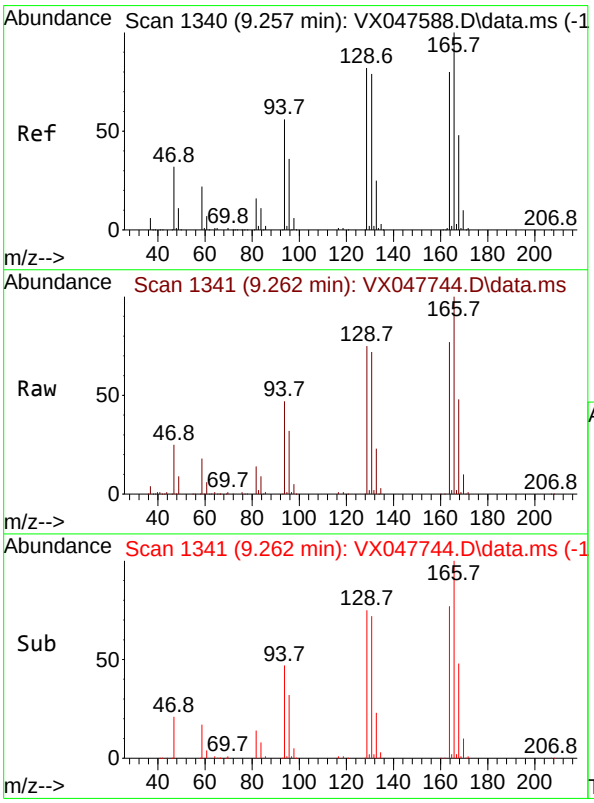
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 243306

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	31.5	25.2	37.8

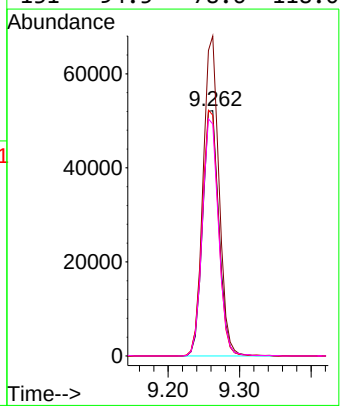


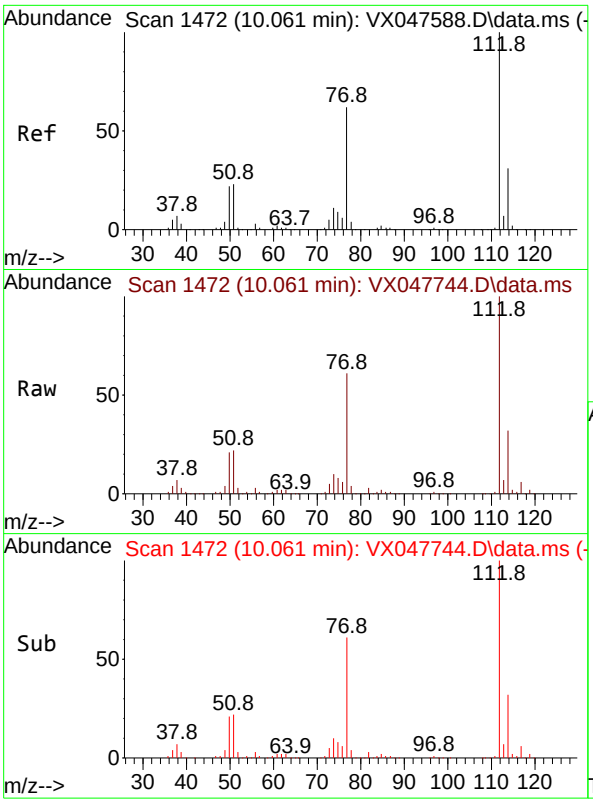


#64
Tetrachloroethene
Concen: 51.765 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:164 Resp: 82104

Ion	Ratio	Lower	Upper
164	100		
166	130.4	100.2	150.2
129	98.1	81.8	122.6
131	94.5	78.6	118.0



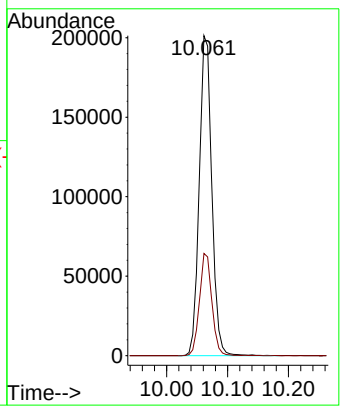


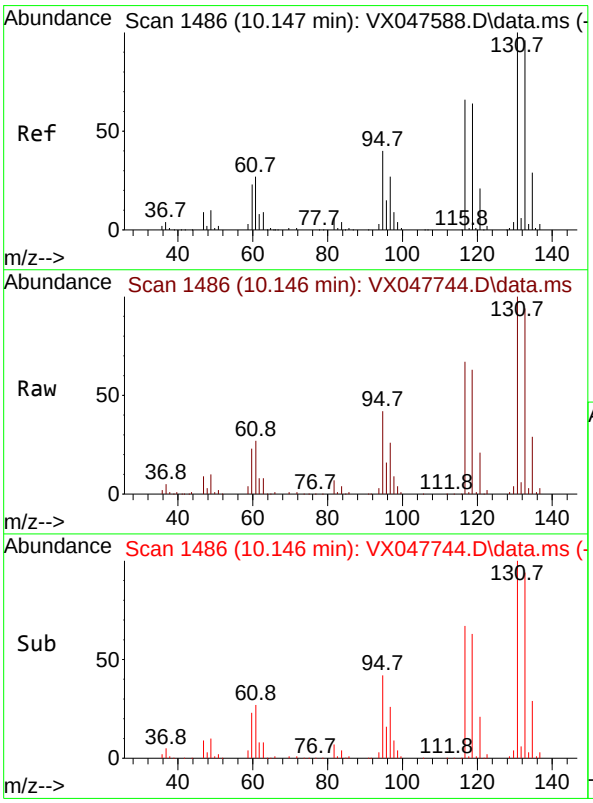
#65
Chlorobenzene
Concen: 52.159 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 288305

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7

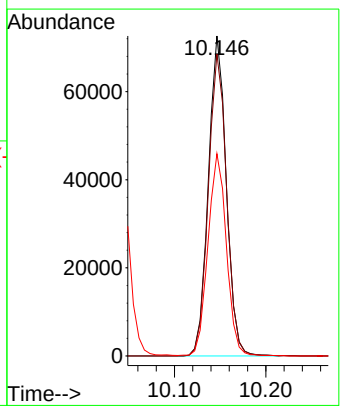


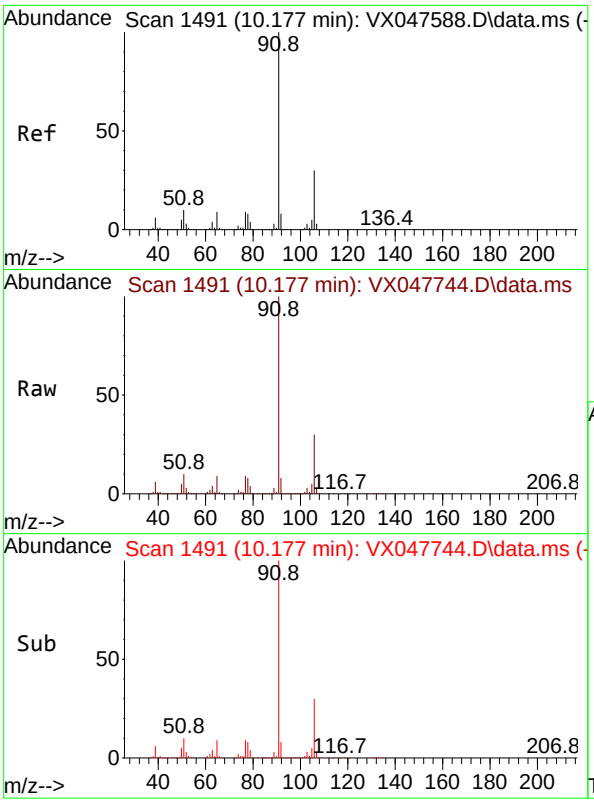


#66
1,1,1,2-Tetrachloroethane
Concen: 51.810 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:131 Resp: 98820

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	65.2	32.0	96.0



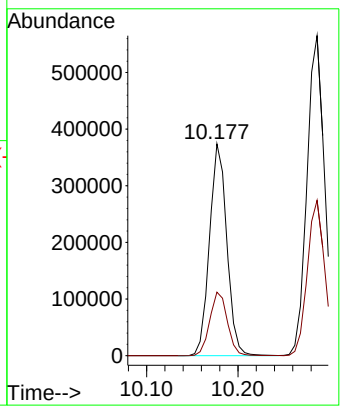


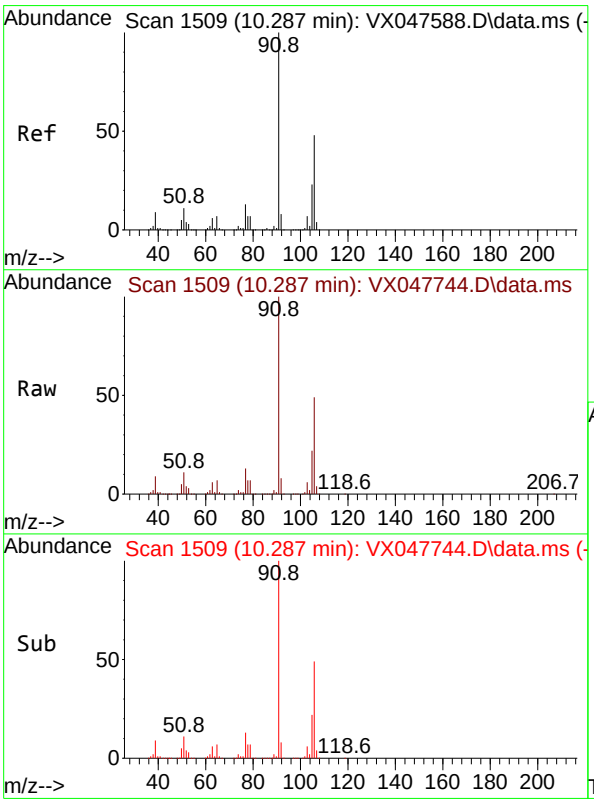
#67
Ethyl Benzene
Concen: 51.527 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 491426

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5

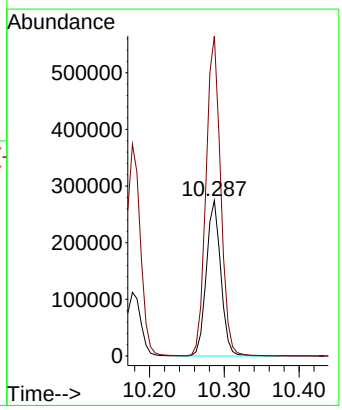


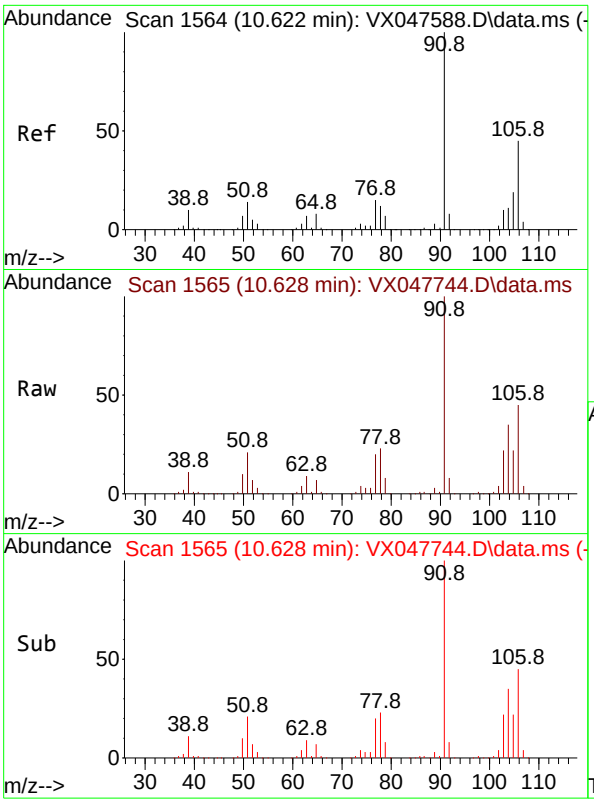


#68
m/p-Xylenes
Concen: 103.518 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:106 Resp: 367469

Ion	Ratio	Lower	Upper
106	100		
91	208.6	167.8	251.8



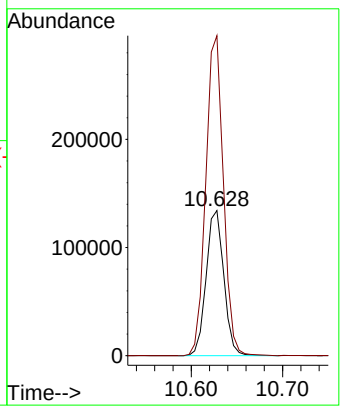


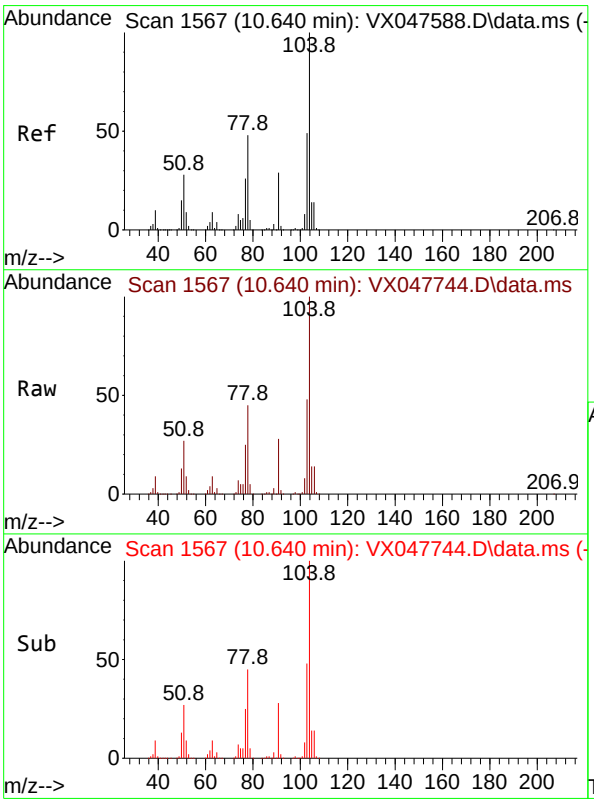
#69
o-Xylene
Concen: 52.511 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 180297

Ion	Ratio	Lower	Upper
106	100		
91	219.4	111.1	333.4

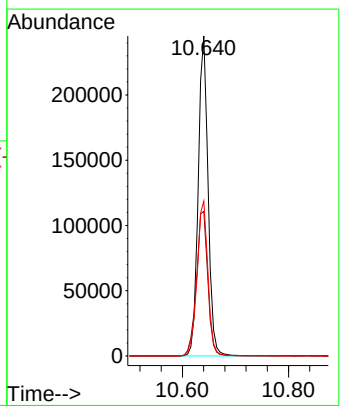


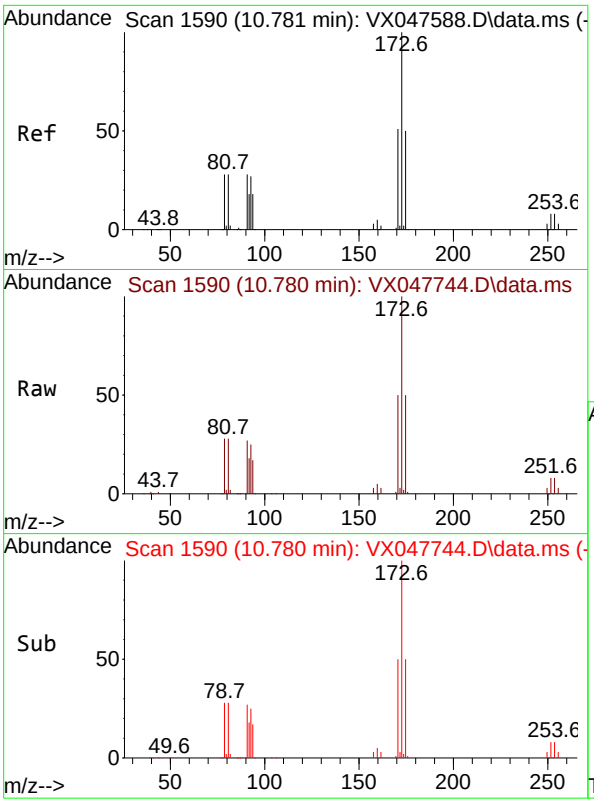


#70
Styrene
Concen: 52.779 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:104 Resp: 317529

Ion	Ratio	Lower	Upper
104	100		
78	52.2	43.1	64.7
103	53.6	43.1	64.7



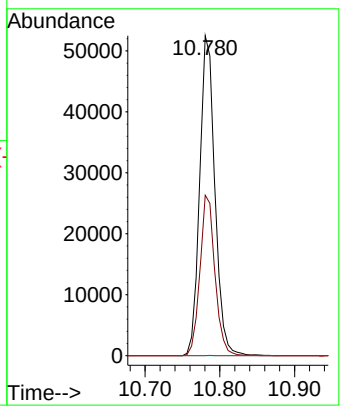


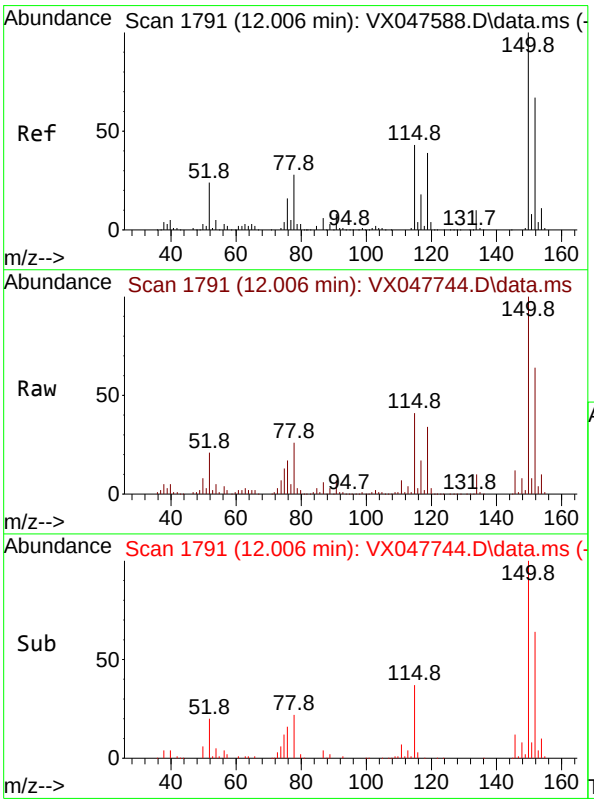
#71
Bromoform
Concen: 52.097 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 74197

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1#

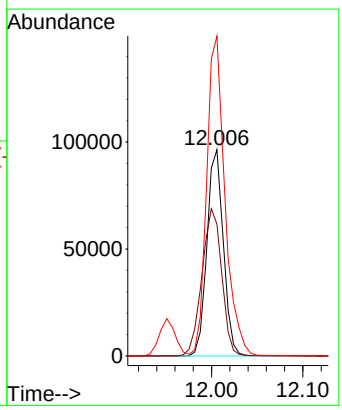


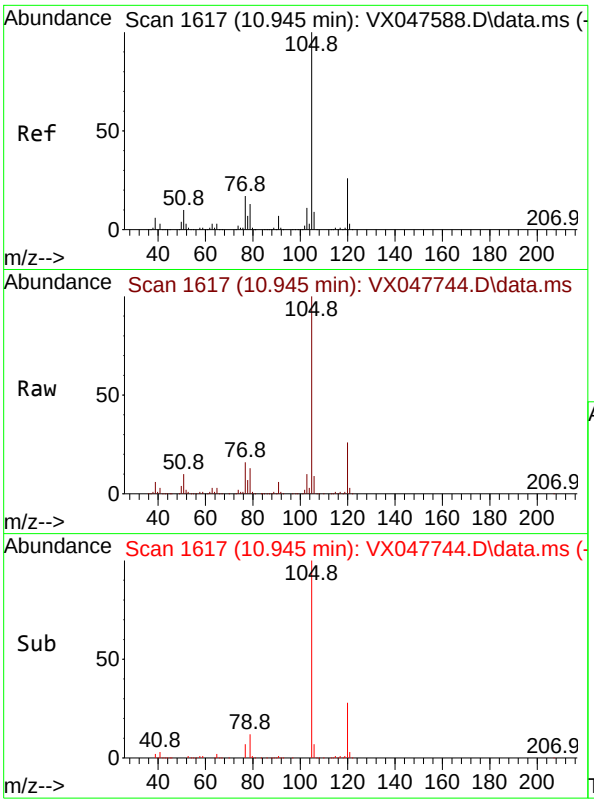


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:152 Resp: 119961

Ion	Ratio	Lower	Upper
152	100		
115	86.2	44.9	134.5
150	173.4	0.0	352.0



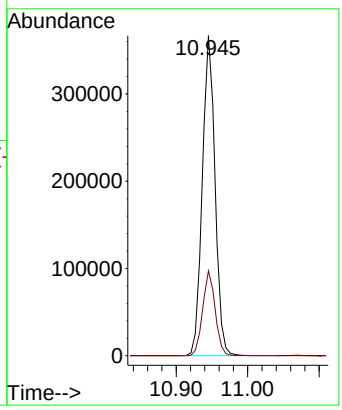


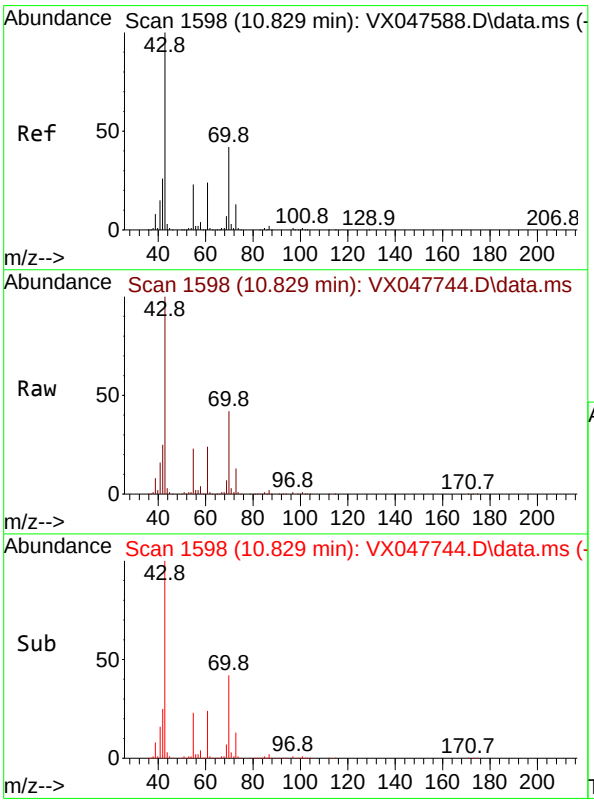
#73
Isopropylbenzene
Concen: 49.722 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 453473

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

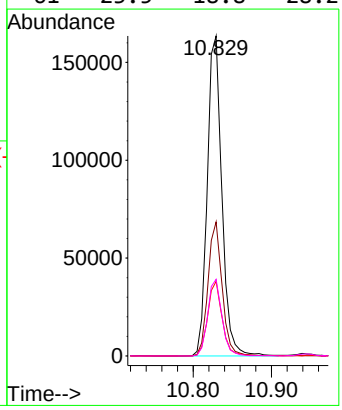


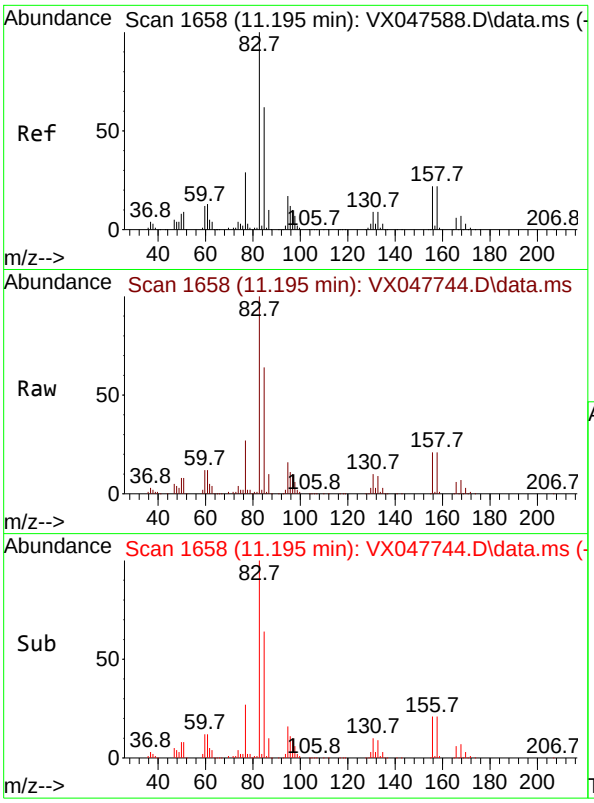


#74
N-amyl acetate
Concen: 50.685 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 43 Resp: 210798

Ion	Ratio	Lower	Upper
43	100		
70	40.7	32.0	48.0
55	23.3	18.9	28.3
61	23.5	18.8	28.2



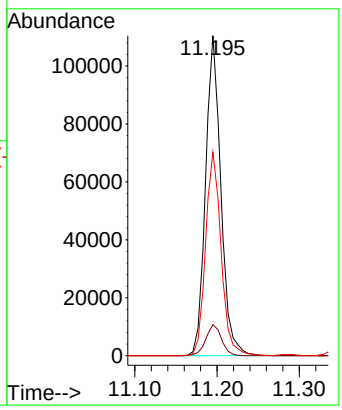


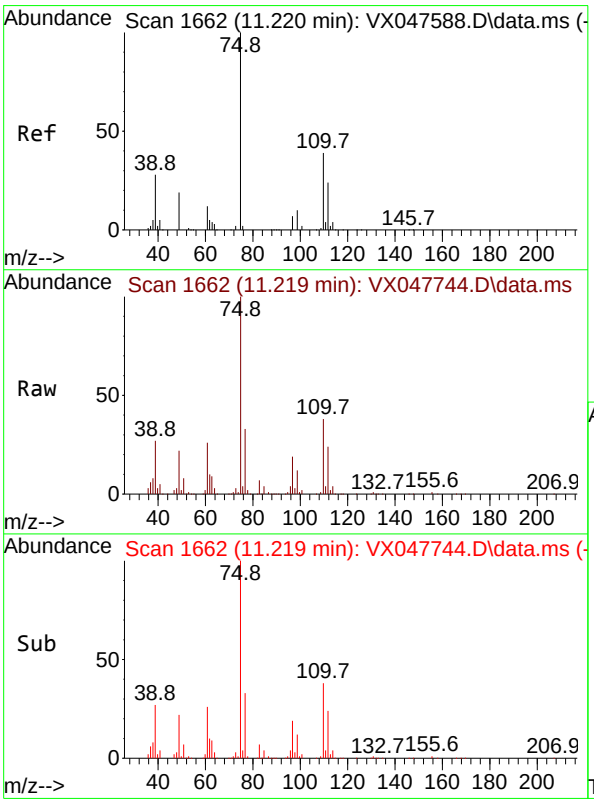
#75
1,1,2,2-Tetrachloroethane
Concen: 51.892 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 143186

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.3	31.6	95.0

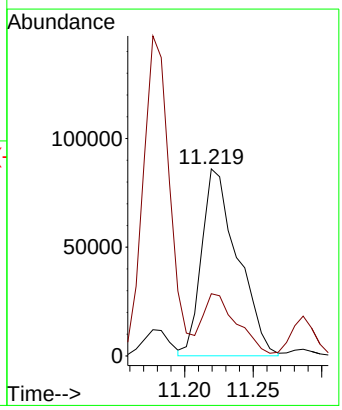


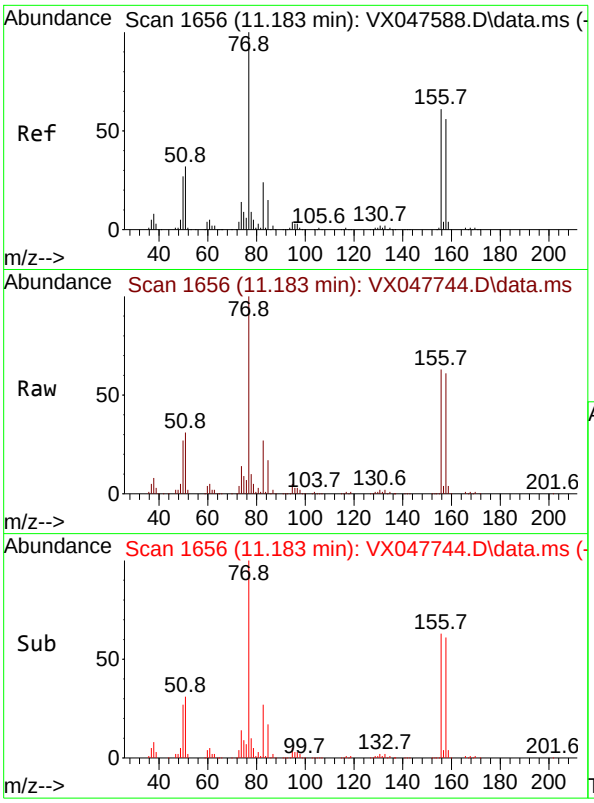


#76
1,2,3-Trichloropropane
Concen: 64.715 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 157182

Ion	Ratio	Lower	Upper
75	100		
77	31.1	18.8	56.4



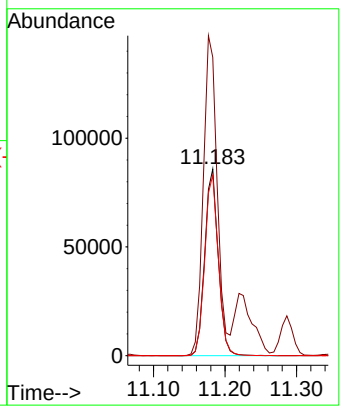


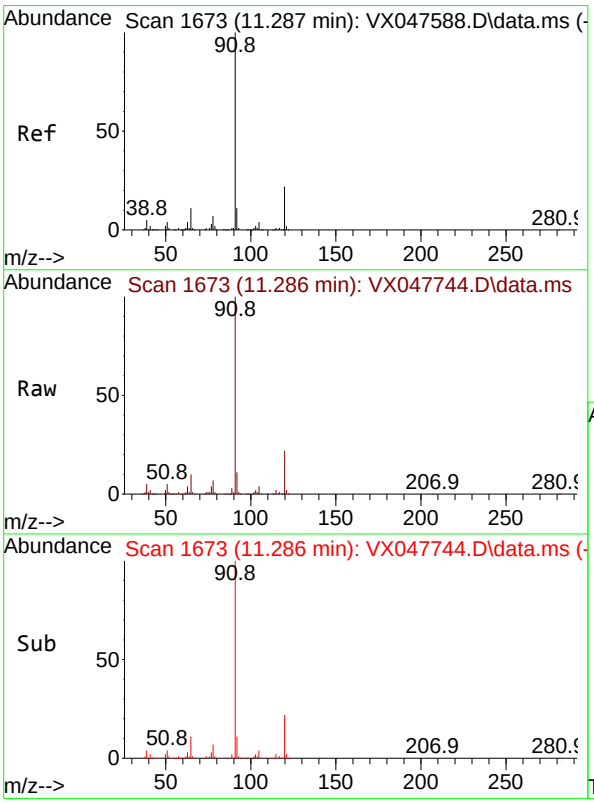
#77
Bromobenzene
Concen: 50.007 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 112329

Ion	Ratio	Lower	Upper
156	100		
77	177.2	89.7	269.1
158	97.8	47.9	143.6

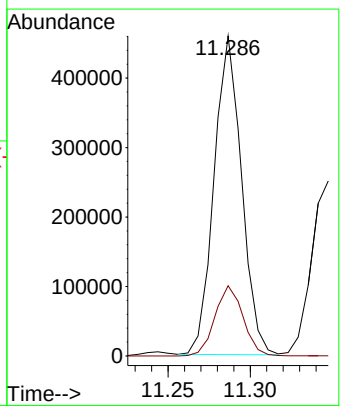


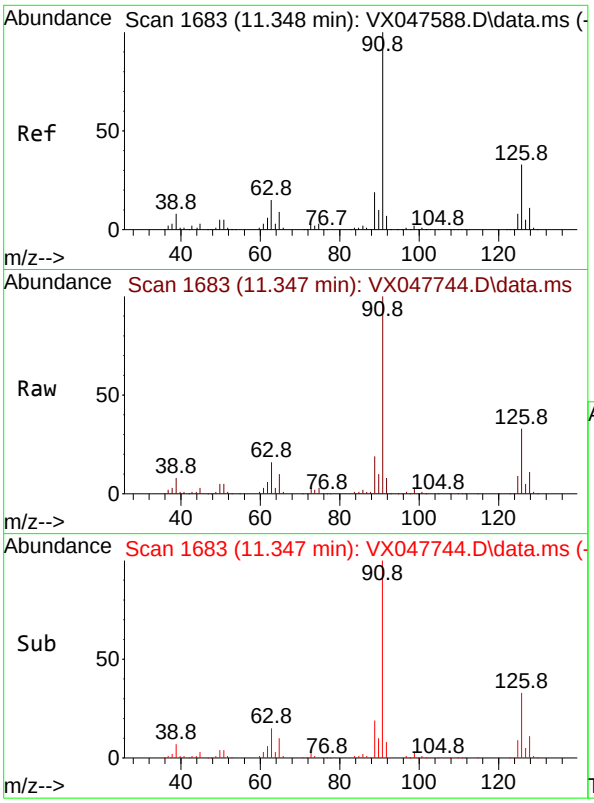


#78
n-propylbenzene
Concen: 49.483 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 533484

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1



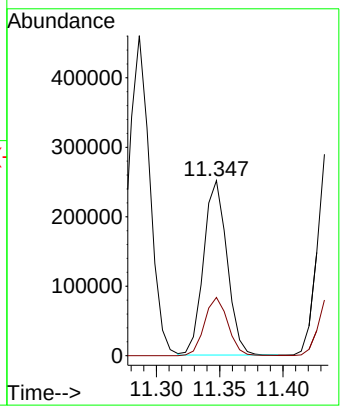


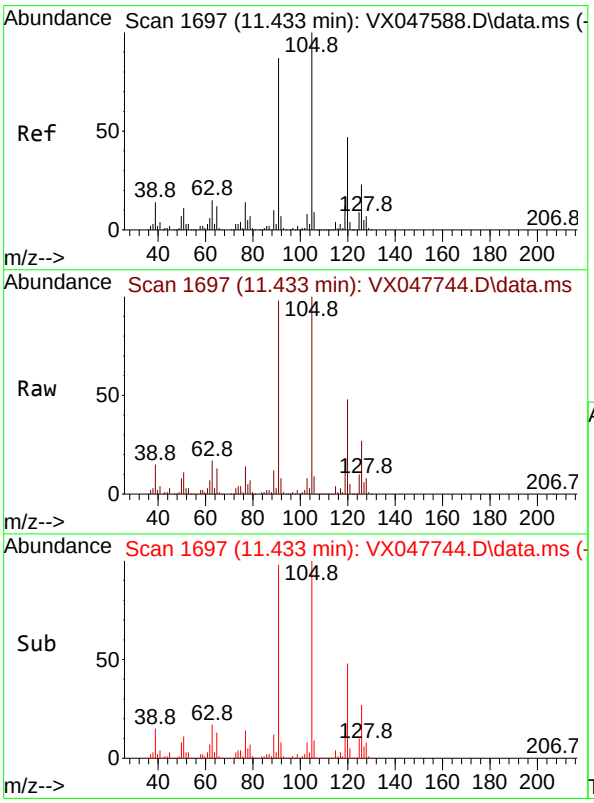
#79
2-Chlorotoluene
Concen: 49.069 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 324017

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.1	48.3

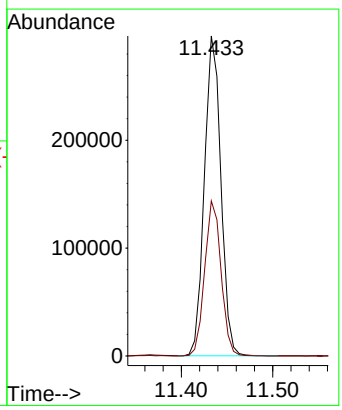


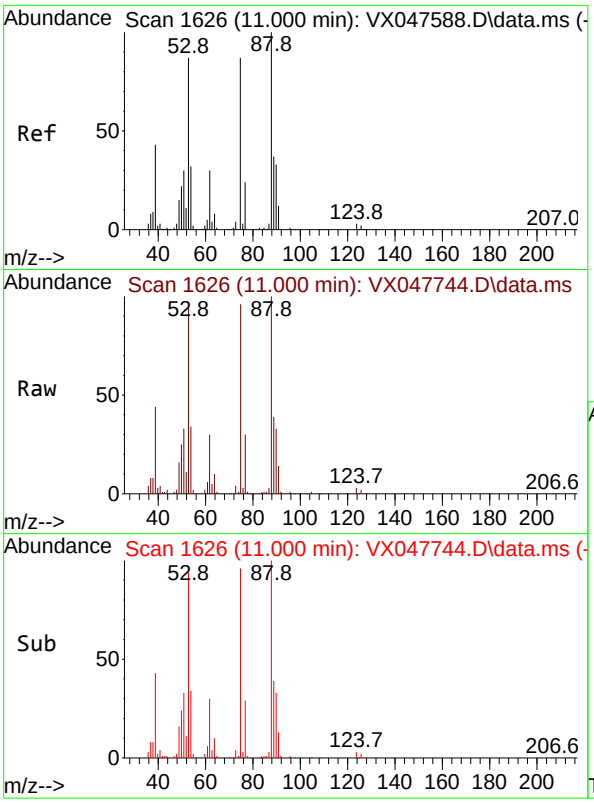


#80
1,3,5-Trimethylbenzene
Concen: 49.437 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 370433

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.6	70.8



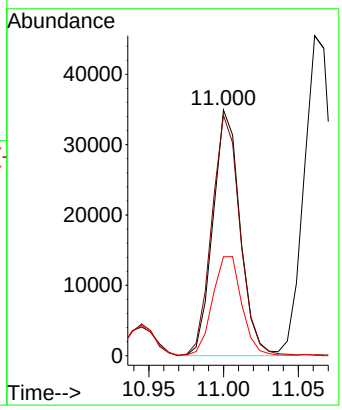


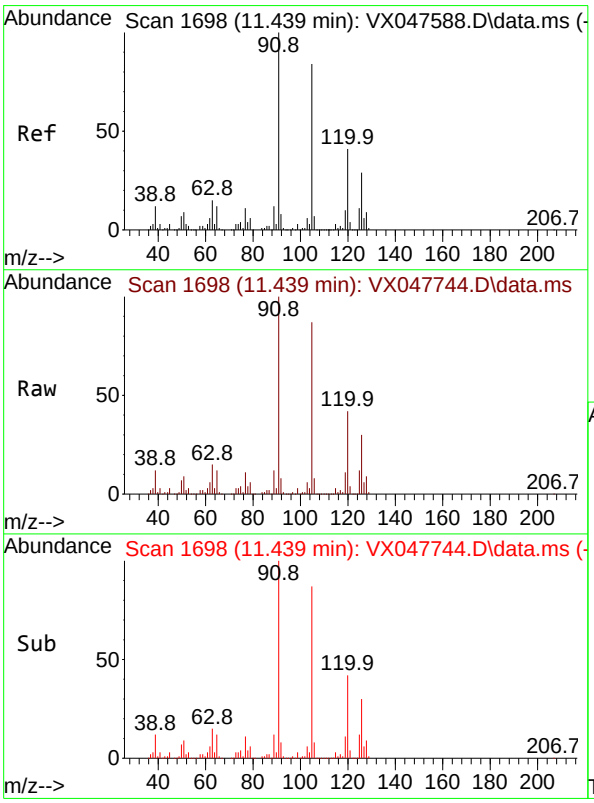
#81
trans-1,4-Dichloro-2-butene
Concen: 46.433 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 44224

Ion	Ratio	Lower	Upper
75	100		
53	101.6	83.4	125.2
89	42.9	36.3	54.5

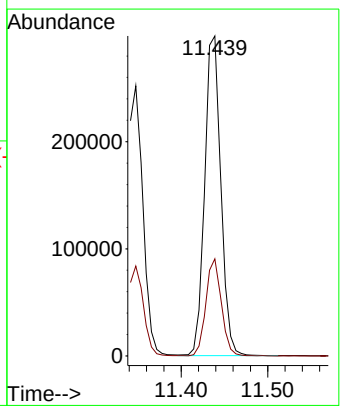


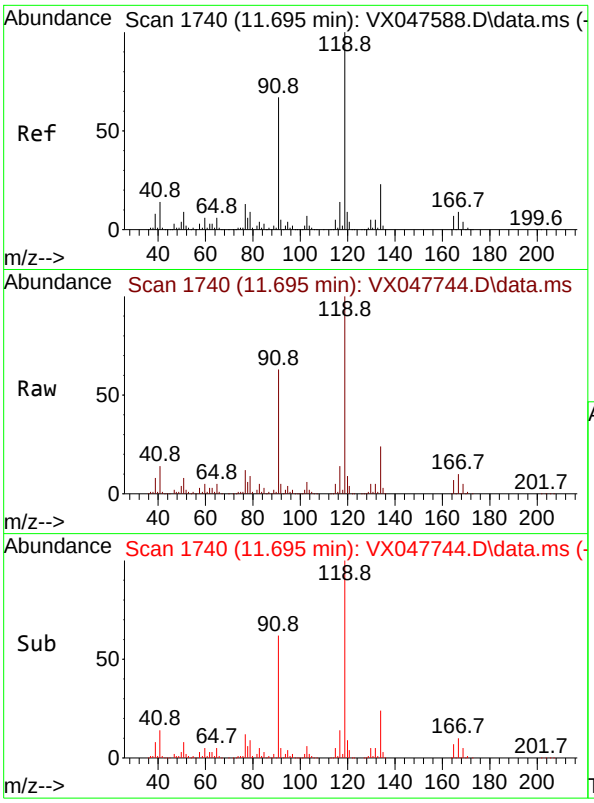


#82
4-Chlorotoluene
Concen: 49.610 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 91 Resp: 386898

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.2	42.6



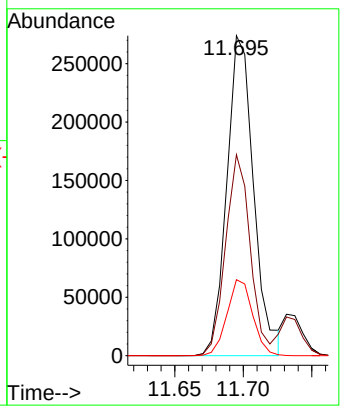


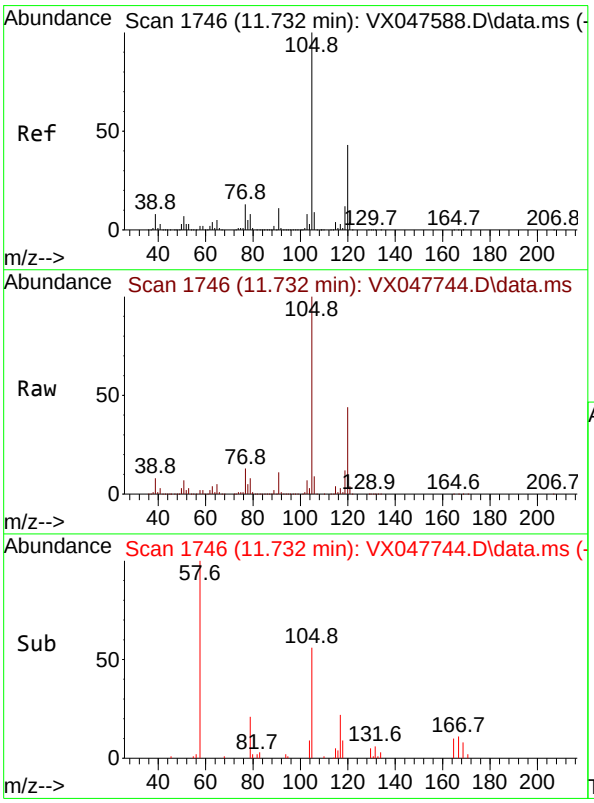
#83
tert-Butylbenzene
Concen: 48.704 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 373585

Ion	Ratio	Lower	Upper
119	100		
91	57.7	29.6	88.8
134	22.8	11.0	33.0

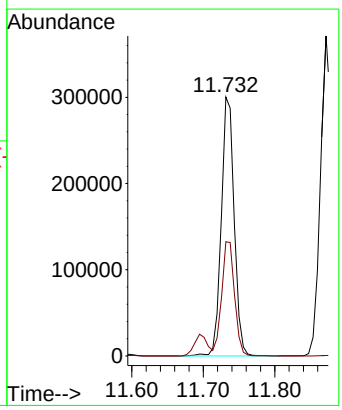


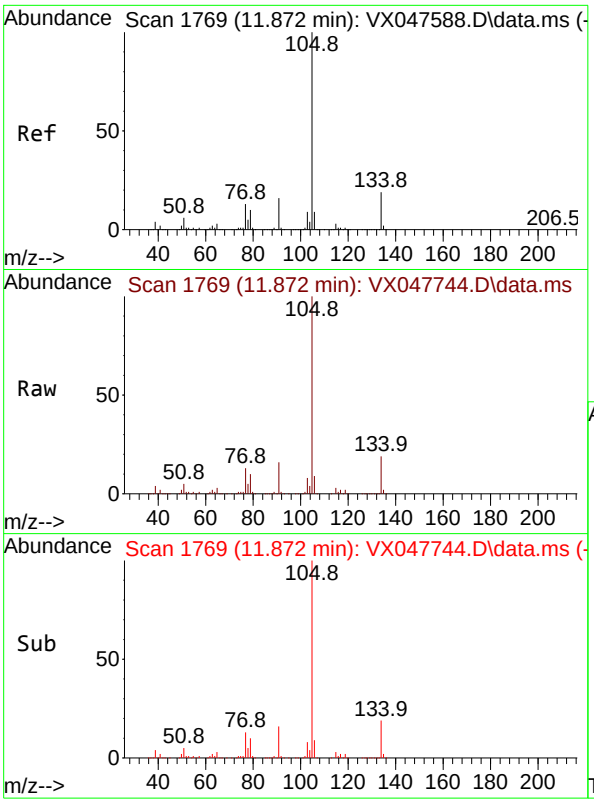


#84
1,2,4-Trimethylbenzene
Concen: 49.591 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:105 Resp: 376730

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.1



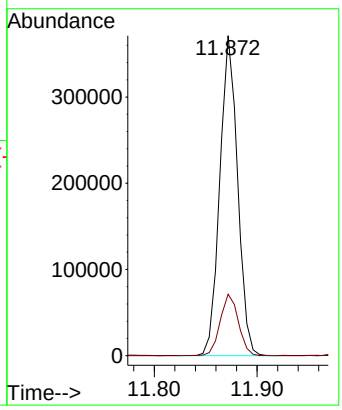


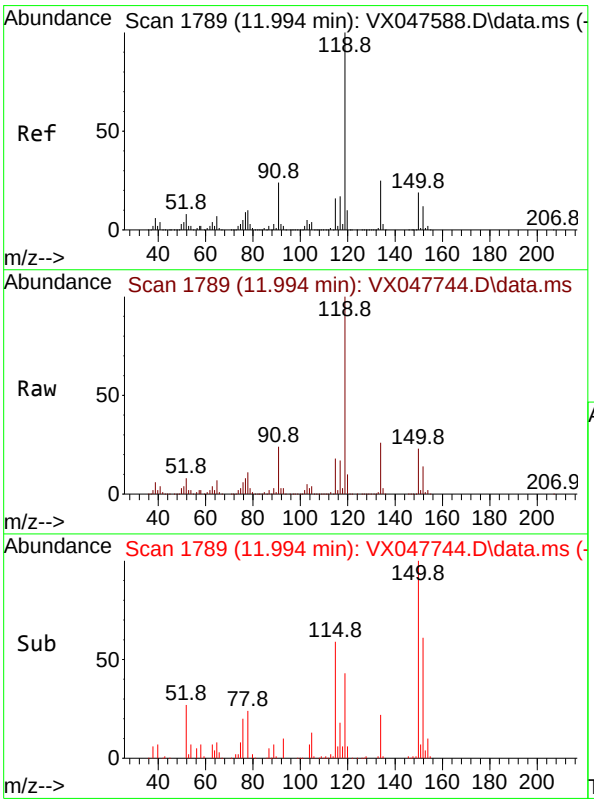
#85
sec-Butylbenzene
Concen: 48.878 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 445326

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

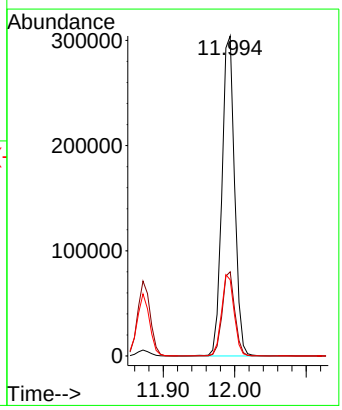


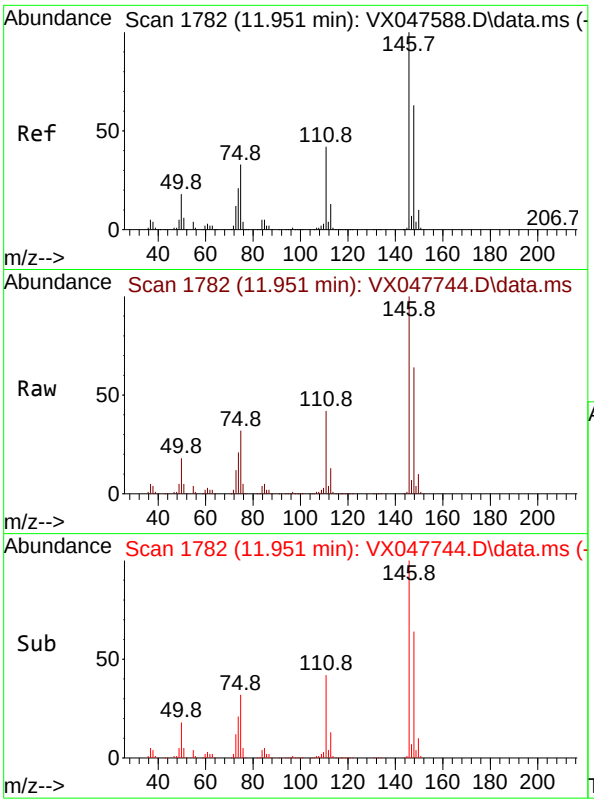


#86
p-Isopropyltoluene
Concen: 48.479 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:119 Resp: 373936

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	25.3	12.6	37.6



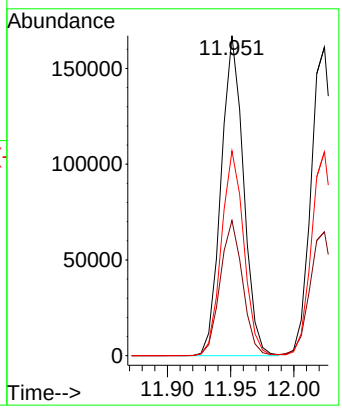


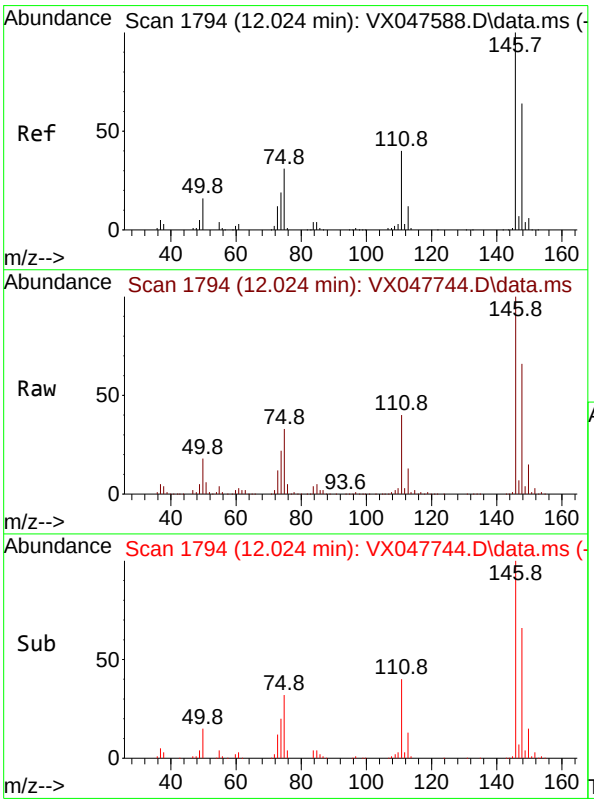
#87
1,3-Dichlorobenzene
Concen: 49.286 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 205631

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	64.2	32.0	96.0

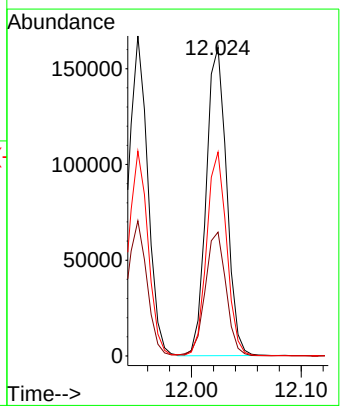


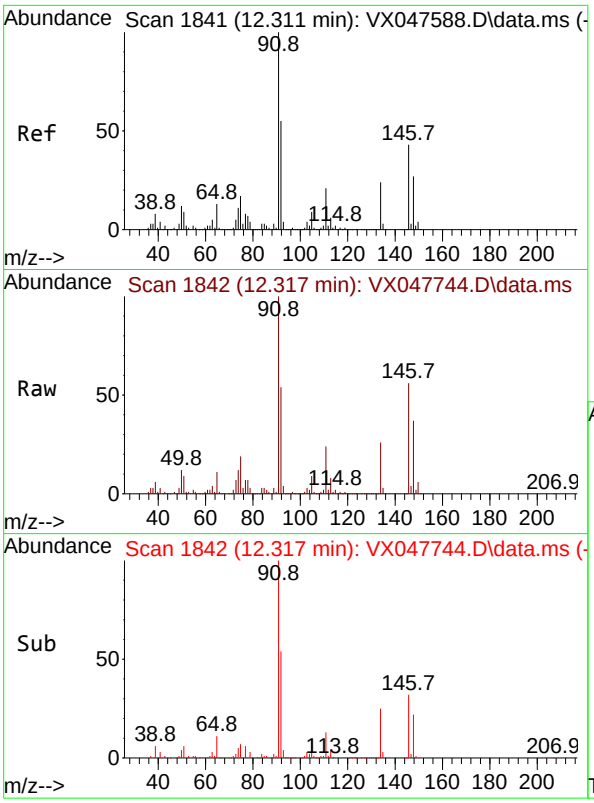


#88
1,4-Dichlorobenzene
Concen: 48.449 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:146 Resp: 207463

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.8	62.4
148	65.1	31.7	95.1



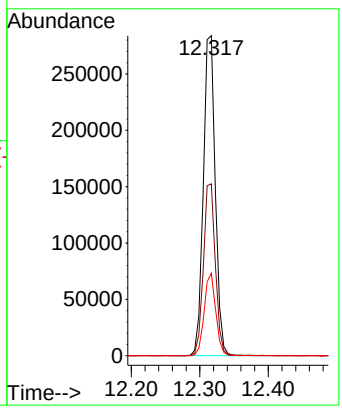


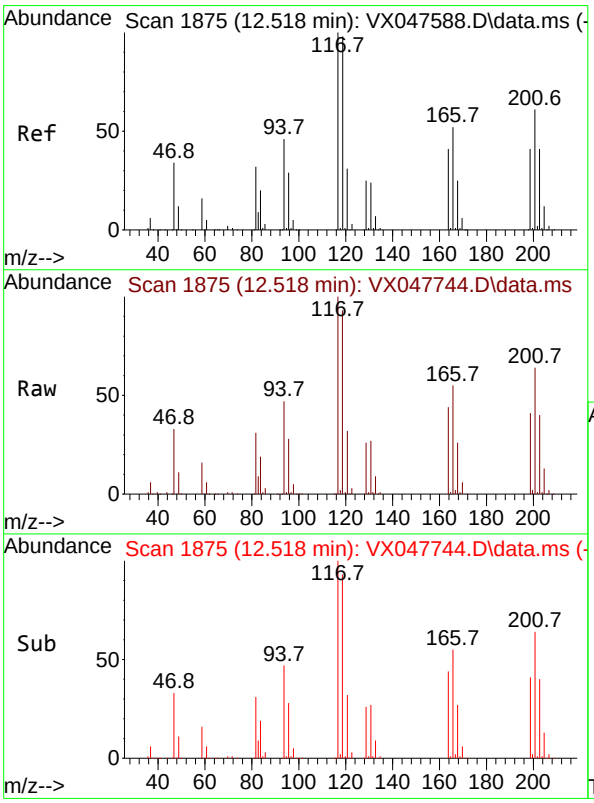
#89
n-Butylbenzene
Concen: 48.442 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 345737

Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.6	82.7
134	24.8	12.6	37.8

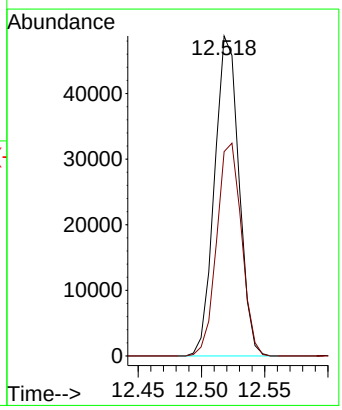


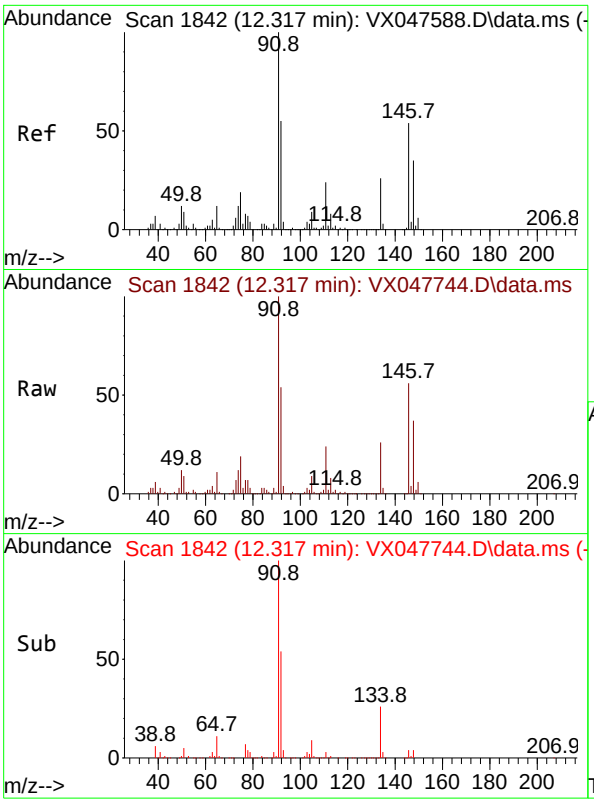


#90
Hexachloroethane
Concen: 48.232 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:117 Resp: 65317

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.2	102.5



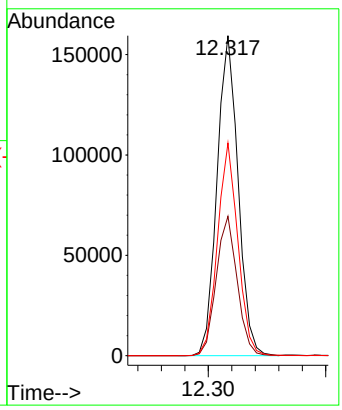


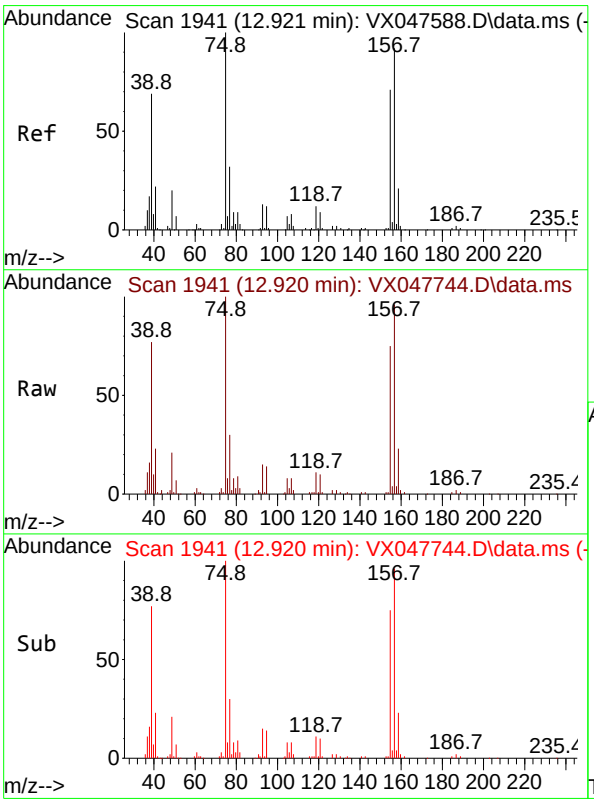
#91
1,2-Dichlorobenzene
Concen: 49.953 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 198557

Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.2	66.6
148	64.3	31.8	95.4

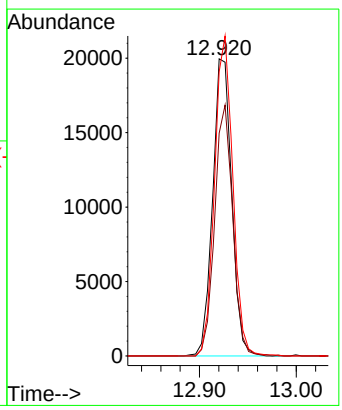


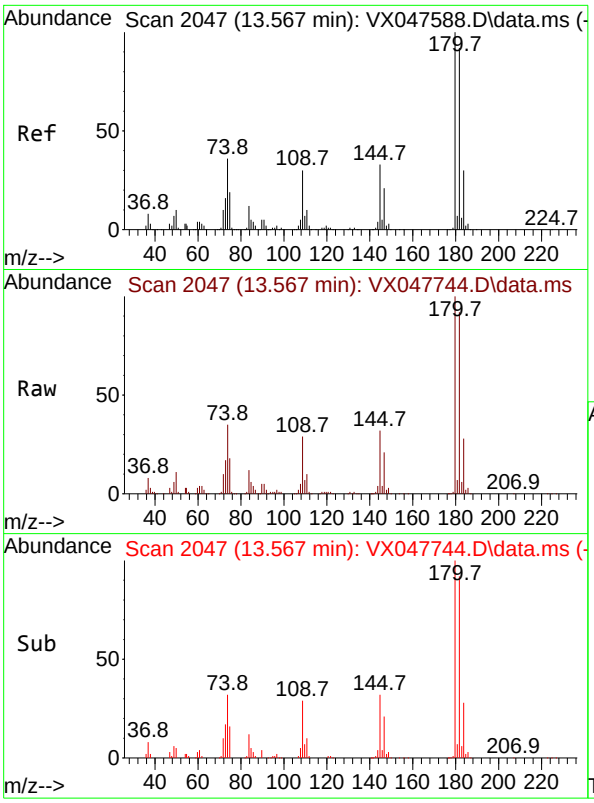


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.908 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion: 75 Resp: 27323

Ion	Ratio	Lower	Upper
75	100		
155	79.8	37.7	113.1
157	103.2	49.8	149.4



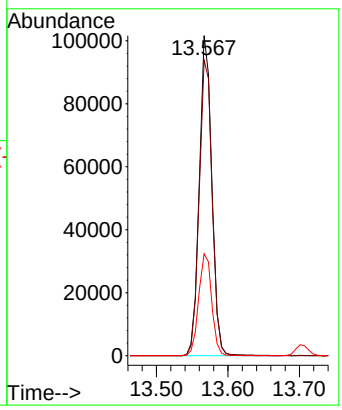


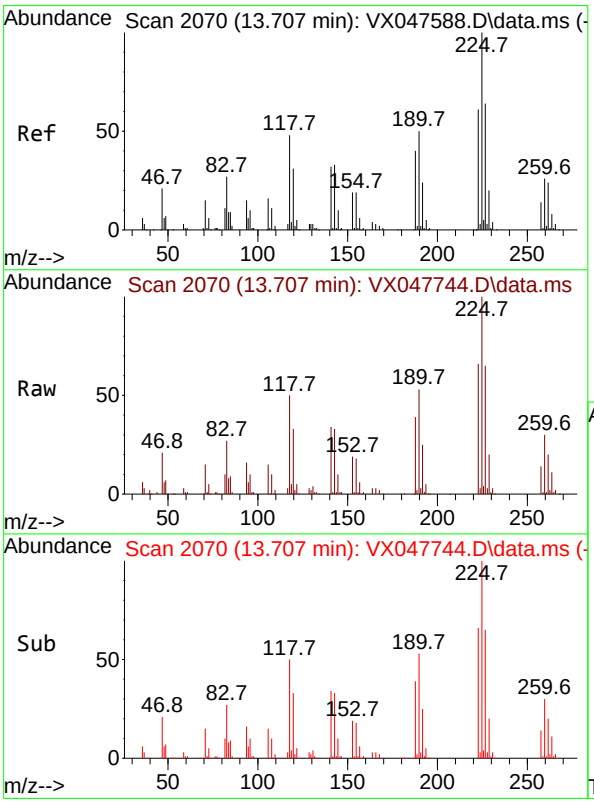
#93
1,2,4-Trichlorobenzene
Concen: 47.762 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 123384

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.6	139.8
145	33.1	16.4	49.1

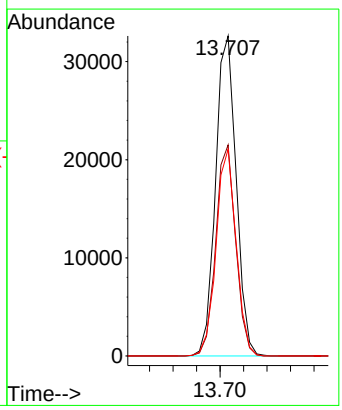


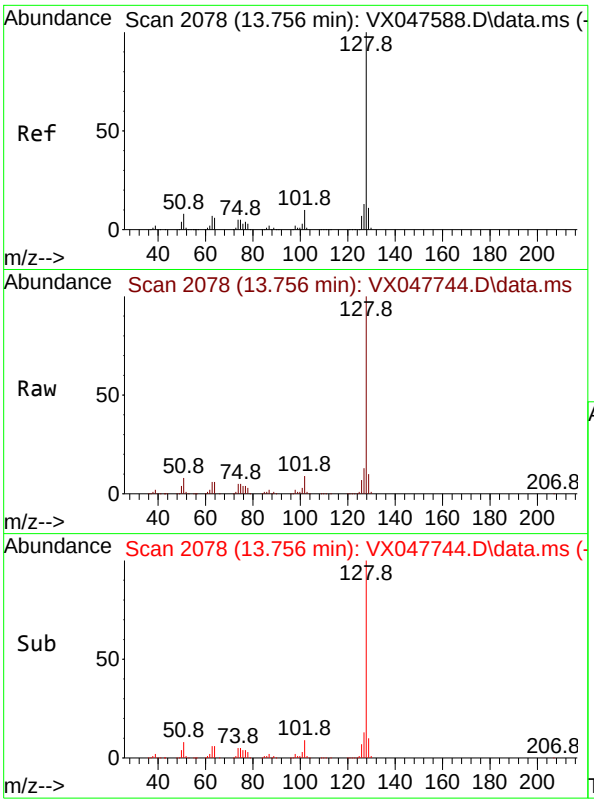


#94
Hexachlorobutadiene
Concen: 45.277 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:225 Resp: 39729

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.7	95.1
227	62.7	32.0	96.0



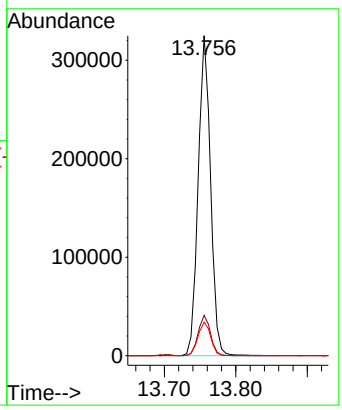


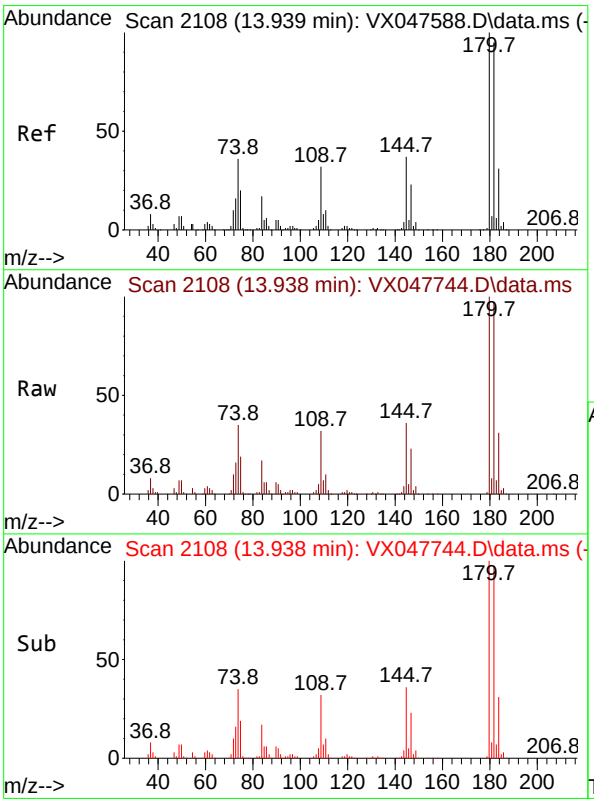
#95
Naphthalene
Concen: 49.575 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 389975

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2

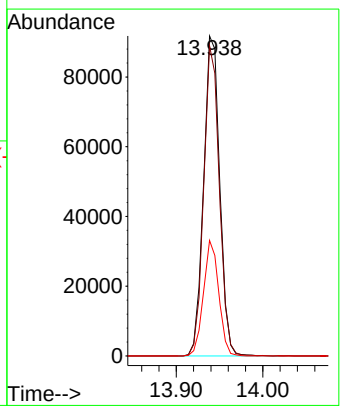




#96
1,2,3-Trichlorobenzene
Concen: 49.357 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047744.D
Acq: 23 Sep 2025 19:00

Tgt Ion:180 Resp: 118608

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.6	142.8
145	34.3	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	166745	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	290663	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	252770	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	121948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	143883	54.210	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.420%			
35) Dibromofluoromethane	5.361	113	115620	59.312	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 118.620%			
50) Toluene-d8	8.629	98	385188	57.106	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 114.220%#			
62) 4-Bromofluorobenzene	11.061	95	143339	55.994	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	112040	64.888	ug/l	100
3) Chloromethane	1.301	50	130600	57.550	ug/l	100
4) Vinyl Chloride	1.380	62	131626	59.253	ug/l	99
5) Bromomethane	1.612	94	78027	55.392	ug/l	100
6) Chloroethane	1.691	64	81956	55.200	ug/l	99
7) Trichlorofluoromethane	1.892	101	183574	55.656	ug/l	98
8) Diethyl Ether	2.136	74	71840	53.244	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	109156	56.598	ug/l	98
10) Methyl Iodide	2.453	142	159713	53.098	ug/l	100
11) Tert butyl alcohol	2.941	59	74645	252.518	ug/l	99
12) 1,1-Dichloroethene	2.319	96	110500	55.777	ug/l	95
13) Acrolein	2.233	56	76283	280.037	ug/l	97
14) Allyl chloride	2.660	41	201882	49.383	ug/l	97
15) Acrylonitrile	3.050	53	308364	281.629	ug/l	99
16) Acetone	2.374	43	248054	214.945	ug/l	97
17) Carbon Disulfide	2.514	76	299474	55.218	ug/l	98
18) Methyl Acetate	2.697	43	144662	56.326	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	375666	51.946	ug/l	100
20) Methylene Chloride	2.788	84	128569	52.632	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	115848	54.315	ug/l	98
22) Diisopropyl ether	3.745	45	417196	52.658	ug/l	88
23) Vinyl Acetate	3.709	43	1676763	264.433	ug/l	100
24) 1,1-Dichloroethane	3.599	63	224981	53.426	ug/l	100
25) 2-Butanone	4.532	43	365129	253.647	ug/l	98
26) 2,2-Dichloropropane	4.459	77	121706	34.769	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	135871	52.016	ug/l	95
28) Bromochloromethane	4.879	49	104808	57.010	ug/l	98
29) Tetrahydrofuran	4.983	42	236130	272.674	ug/l	99
30) Chloroform	5.068	83	221493	52.050	ug/l	97
31) Cyclohexane	5.452	56	179654	51.224	ug/l	96
32) 1,1,1-Trichloroethane	5.361	97	187296	51.890	ug/l	100
36) 1,1-Dichloropropene	5.672	75	146503	51.432	ug/l	99
37) Ethyl Acetate	4.690	43	157558	51.660	ug/l	99
38) Carbon Tetrachloride	5.660	117	160891	51.986	ug/l	97
39) Methylcyclohexane	7.361	83	167414	51.777	ug/l	99
40) Benzene	6.019	78	460455	53.223	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.891	41	87766	55.742	ug/l		97
42) 1,2-Dichloroethane	6.068	62	165276	50.209	ug/l		98
43) Isopropyl Acetate	6.318	43	257745	51.528	ug/l		99
44) Trichloroethene	7.104	130	112394	53.736	ug/l		99
45) 1,2-Dichloropropane	7.409	63	116449	52.565	ug/l		100
46) Dibromomethane	7.562	93	84502	52.418	ug/l		98
47) Bromodichloromethane	7.799	83	172703	51.915	ug/l		99
48) Methyl methacrylate	7.671	41	129497	51.974	ug/l		98
49) 1,4-Dioxane	7.641	88	32904	1306.764	ug/l		99
51) 4-Methyl-2-Pentanone	8.555	43	749272	270.171	ug/l		100
52) Toluene	8.702	92	276160	51.811	ug/l		99
53) t-1,3-Dichloropropene	8.958	75	163001	48.037	ug/l		97
54) cis-1,3-Dichloropropene	8.348	75	178505	49.218	ug/l		96
55) 1,1,2-Trichloroethane	9.135	97	107258	52.187	ug/l		98
56) Ethyl methacrylate	9.098	69	169567	52.534	ug/l		97
57) 1,3-Dichloropropane	9.287	76	186062	52.699	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	436211	280.568	ug/l		100
59) 2-Hexanone	9.415	43	518114	260.122	ug/l		98
60) Dibromochloromethane	9.500	129	125404	52.954	ug/l		99
61) 1,2-Dibromoethane	9.592	107	111139	53.090	ug/l		100
64) Tetrachloroethene	9.257	164	87453	53.073	ug/l		97
65) Chlorobenzene	10.061	112	297945	51.885	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	104386	52.679	ug/l		100
67) Ethyl Benzene	10.177	91	516414	52.120	ug/l		100
68) m/p-Xylenes	10.287	106	390979	106.017	ug/l		98
69) o-Xylene	10.622	106	187203	52.481	ug/l		99
70) Styrene	10.634	104	330686	52.908	ug/l		98
71) Bromoform	10.781	173	80138	54.161	ug/l	#	96
73) Isopropylbenzene	10.945	105	481526	51.938	ug/l		100
74) N-amyl acetate	10.823	43	221168	52.312	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	149789	53.400	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	160130	64.854	ug/l		92
77) Bromobenzene	11.183	156	116706	51.110	ug/l		97
78) n-propylbenzene	11.287	91	563194	51.387	ug/l		99
79) 2-Chlorotoluene	11.348	91	341925	50.938	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	385950	50.669	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.000	75	42739	44.142	ug/l		98
82) 4-Chlorotoluene	11.439	91	398881	50.313	ug/l		99
83) tert-Butylbenzene	11.695	119	397171	50.936	ug/l		98
84) 1,2,4-Trimethylbenzene	11.732	105	394508	51.085	ug/l		99
85) sec-Butylbenzene	11.872	105	471850	50.945	ug/l		100
86) p-Isopropyltoluene	11.988	119	397440	50.687	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	214686	50.618	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	218086	50.100	ug/l		99
89) n-Butylbenzene	12.311	91	359706	49.578	ug/l		99
90) Hexachloroethane	12.518	117	70601	51.284	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	208091	51.499	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28554	50.279	ug/l		93
93) 1,2,4-Trichlorobenzene	13.567	180	129844	49.444	ug/l		100
94) Hexachlorobutadiene	13.707	225	42478	47.621	ug/l		99
95) Naphthalene	13.756	128	410203	51.297	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	124328	50.895	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047746.D
Acq On : 24 Sep 2025 02:08
Operator : JC/MD
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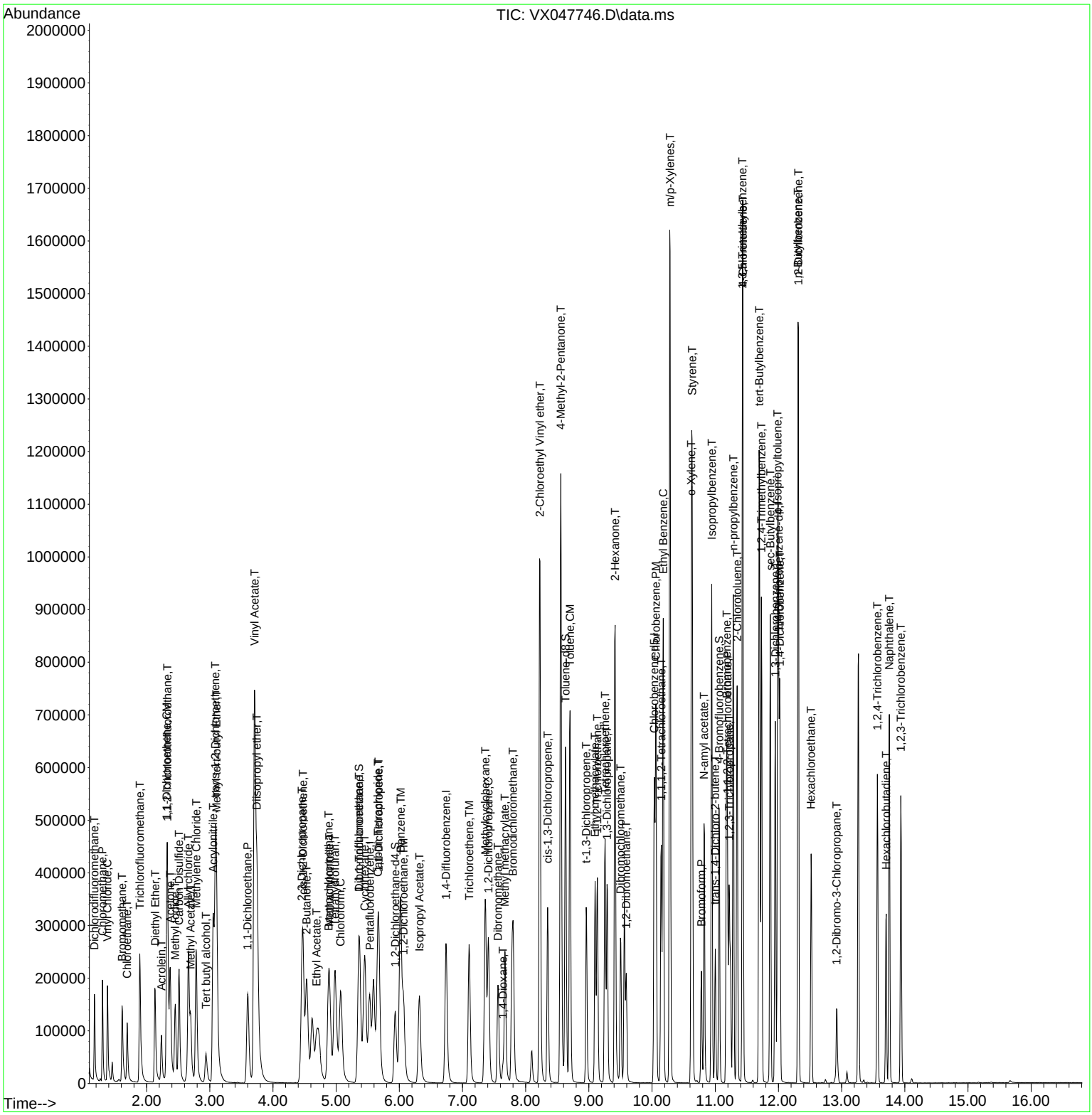
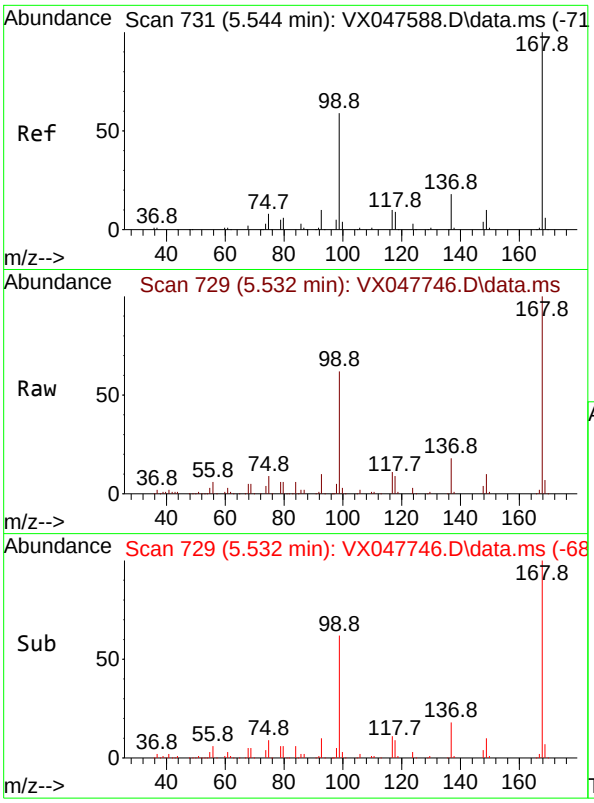
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 24 03:43:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



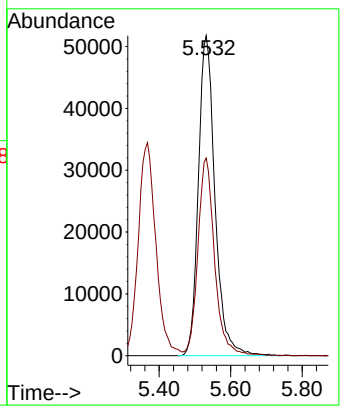


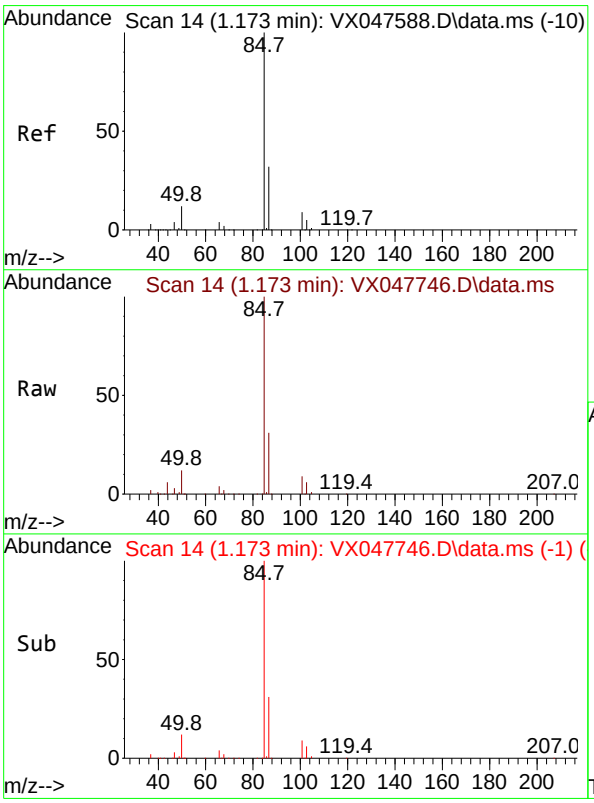
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 166745

Ion	Ratio	Lower	Upper
168	100		
99	61.6	48.8	73.2

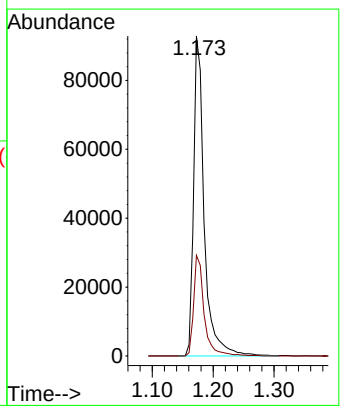


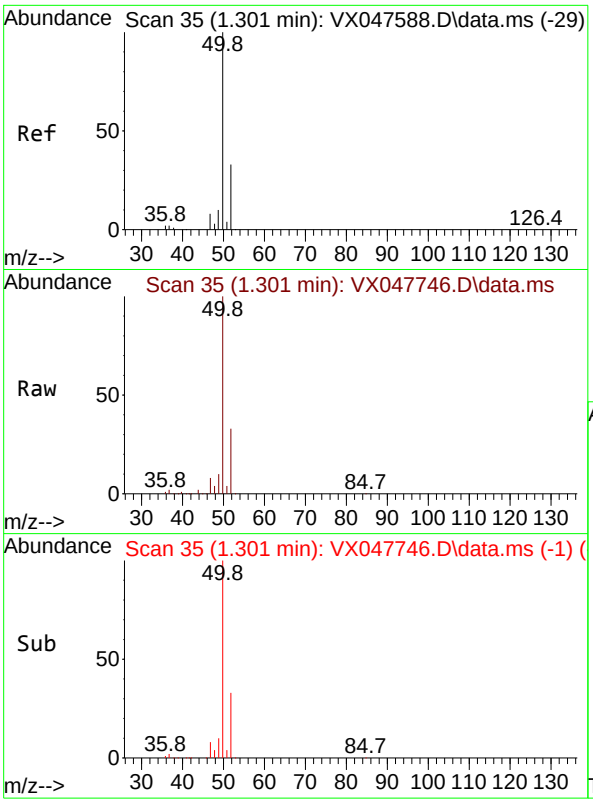


#2
Dichlorodifluoromethane
Concen: 64.888 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 85 Resp: 112040

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.8	47.3



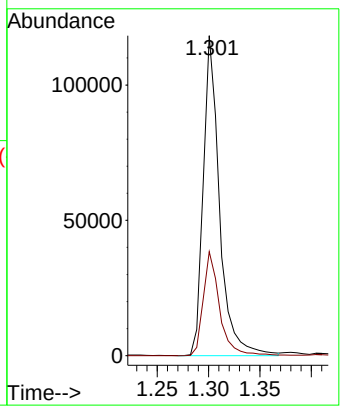


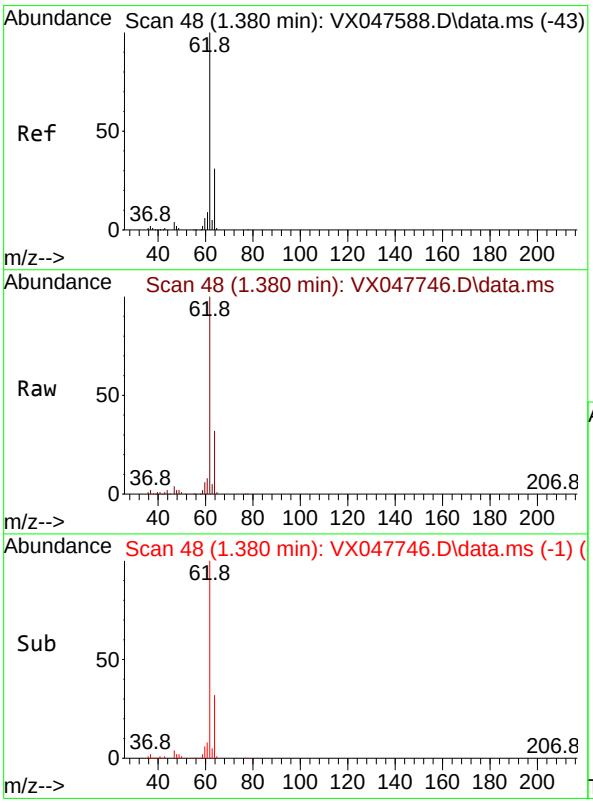
#3
Chloromethane
Concen: 57.550 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 130600

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.1	39.1

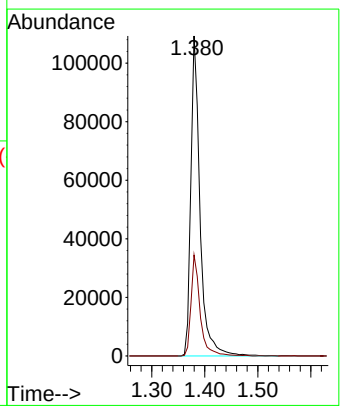


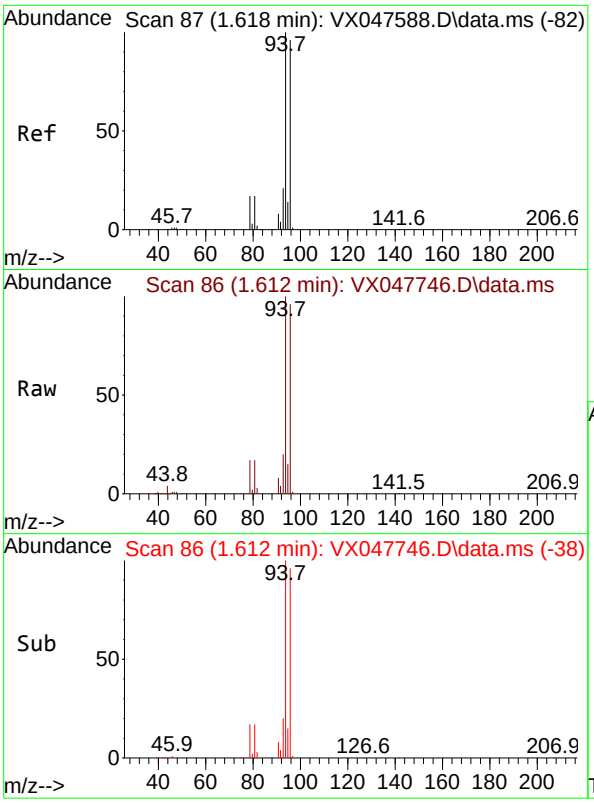


#4
Vinyl Chloride
Concen: 59.253 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 62 Resp: 131626

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.9	37.3



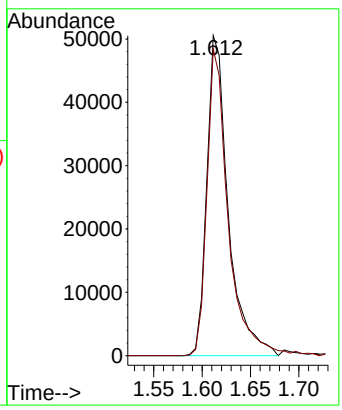


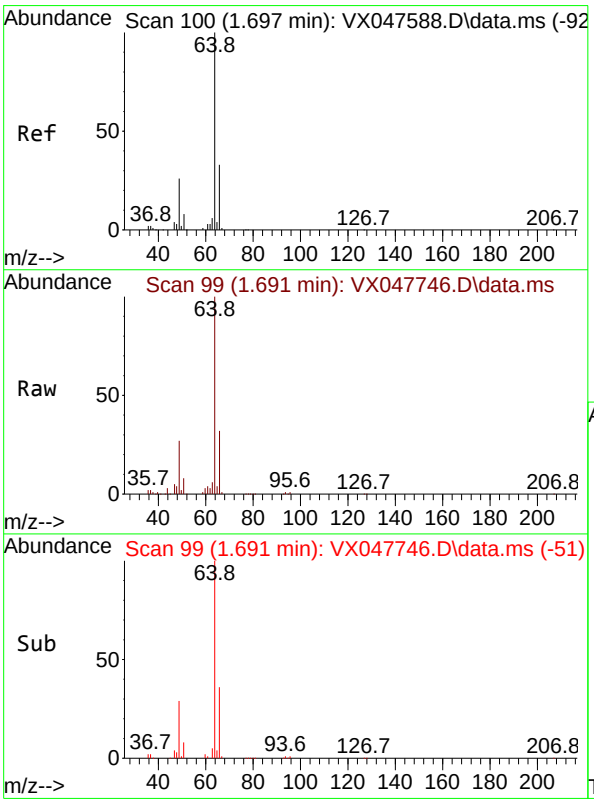
#5
Bromomethane
Concen: 55.392 ug/l
RT: 1.612 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 78027

Ion	Ratio	Lower	Upper
94	100		
96	95.9	76.6	115.0

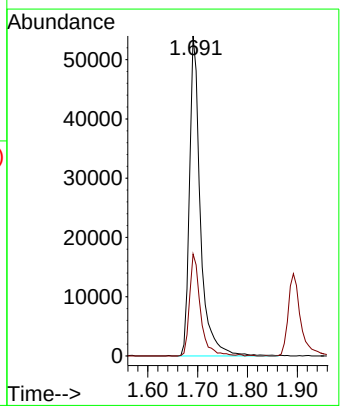


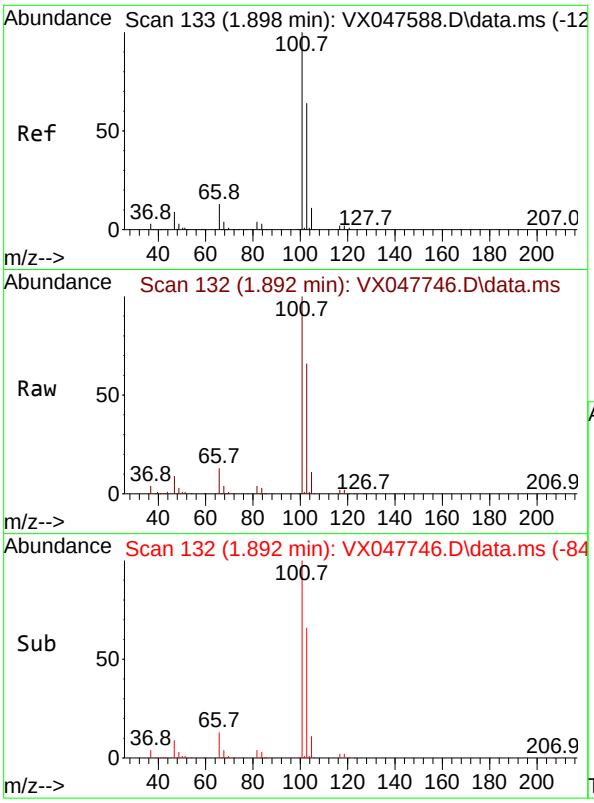


#6
Chloroethane
Concen: 55.200 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 64 Resp: 81956

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1



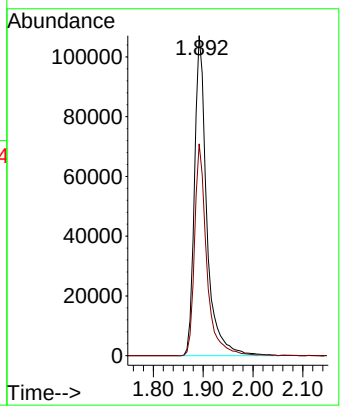


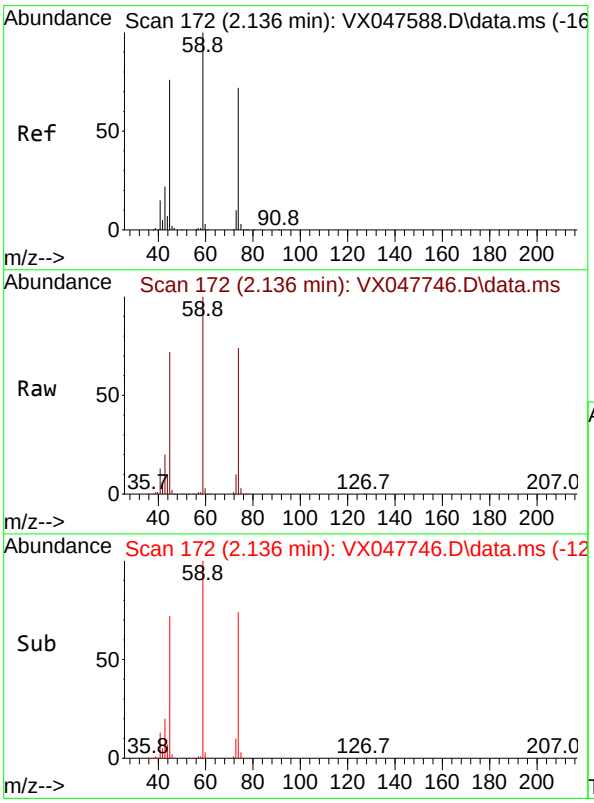
#7
Trichlorofluoromethane
Concen: 55.656 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 183574

Ion	Ratio	Lower	Upper
101	100		
103	66.2	51.4	77.2

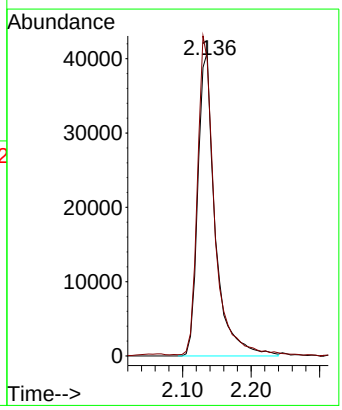


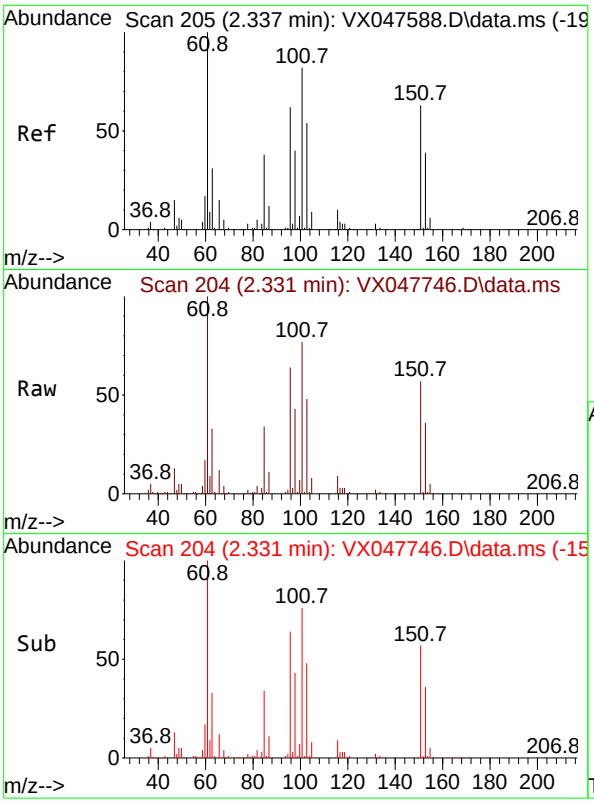


#8
Diethyl Ether
Concen: 53.244 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 74 Resp: 71840

Ion	Ratio	Lower	Upper
74	100		
45	105.8	52.3	156.8



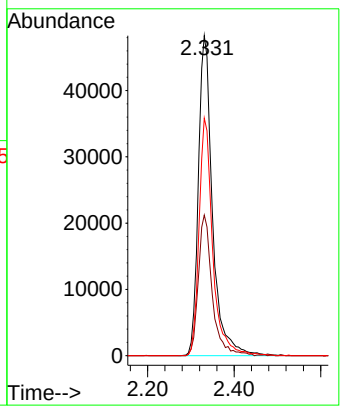


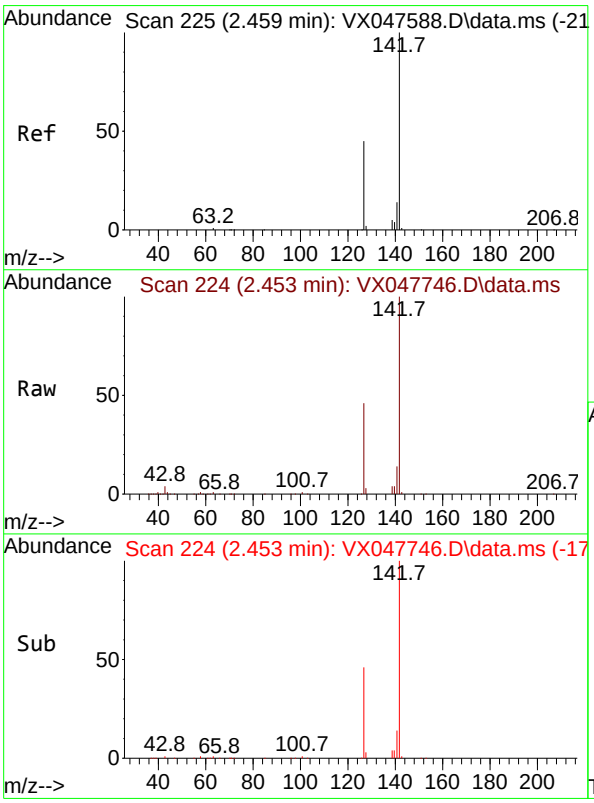
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.598 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 109156

Ion	Ratio	Lower	Upper
101	100		
85	43.4	35.5	53.3
151	72.1	59.4	89.0

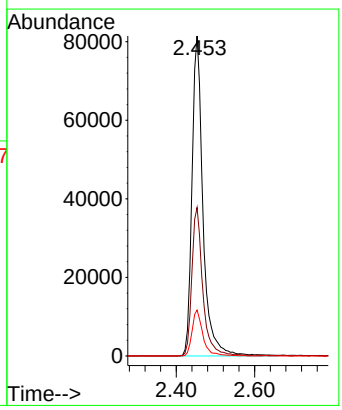


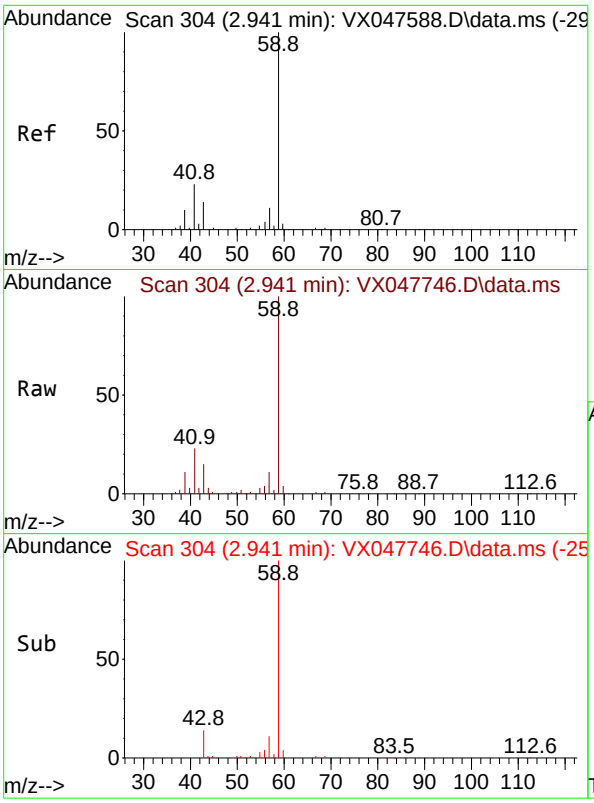


#10
Methyl Iodide
Concen: 53.098 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:142 Resp: 159713

Ion	Ratio	Lower	Upper
142	100		
127	46.2	37.2	55.8
141	14.1	11.4	17.0



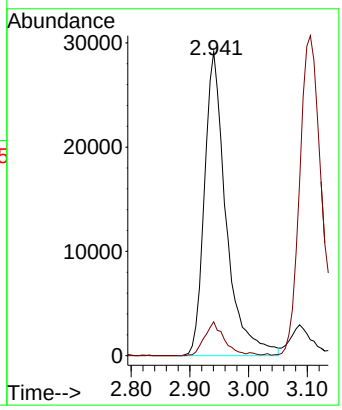


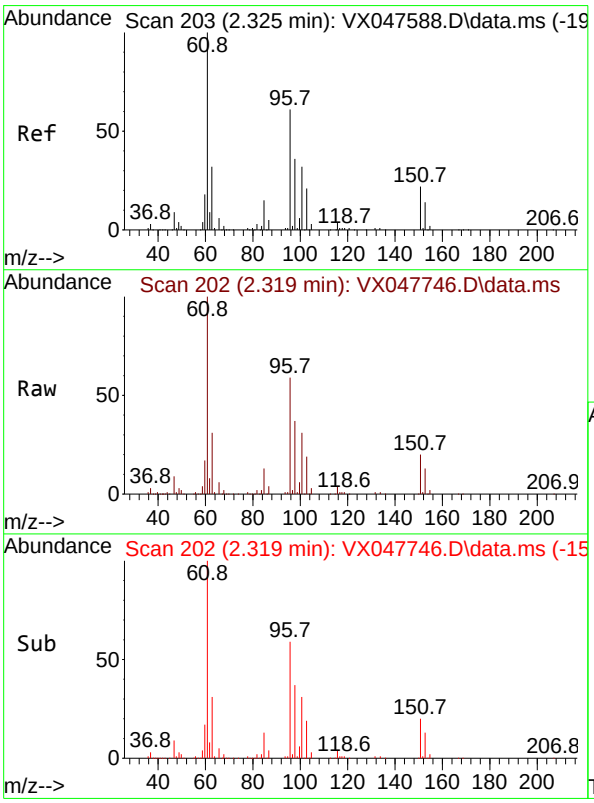
#11
Tert butyl alcohol
Concen: 252.518 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 74645

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.3	12.5

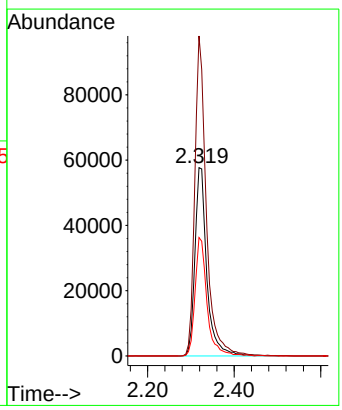


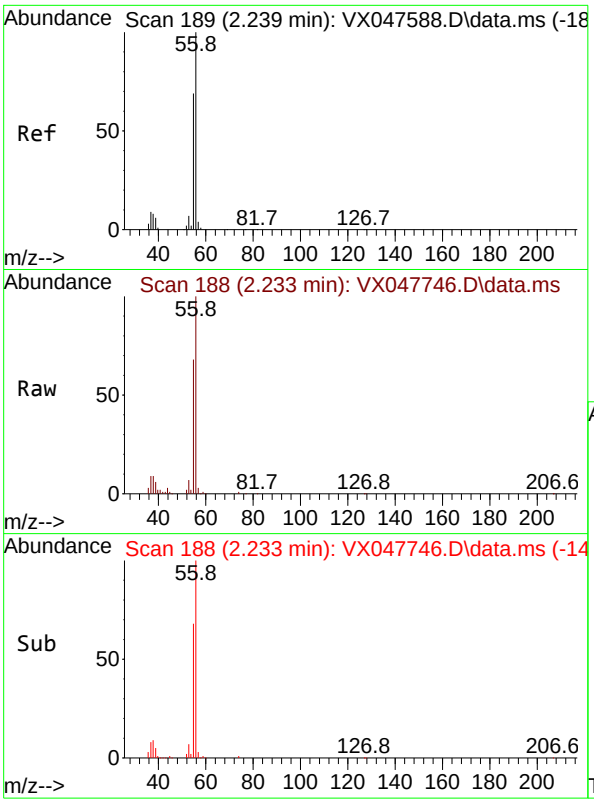


#12
1,1-Dichloroethene
Concen: 55.777 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 96 Resp: 110500

Ion	Ratio	Lower	Upper
96	100		
61	169.9	131.0	196.6
98	62.9	47.7	71.5



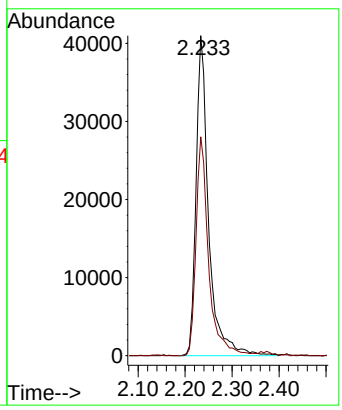


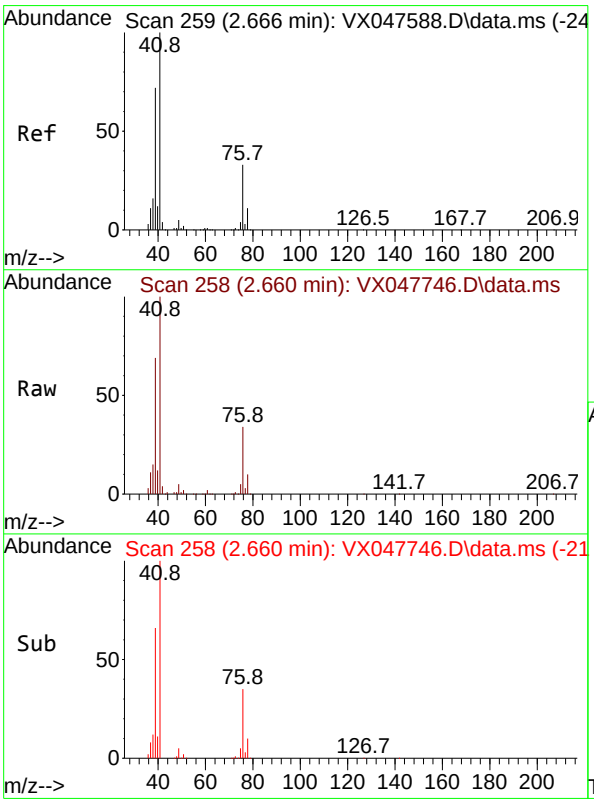
#13
Acrolein
Concen: 280.037 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 76283

Ion	Ratio	Lower	Upper
56	100		
55	68.8	57.2	85.8

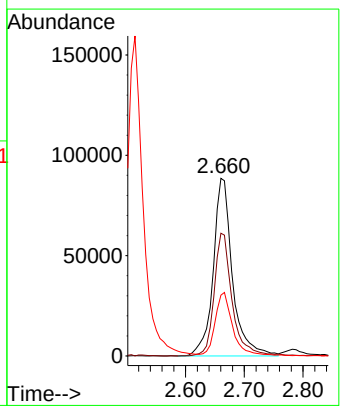


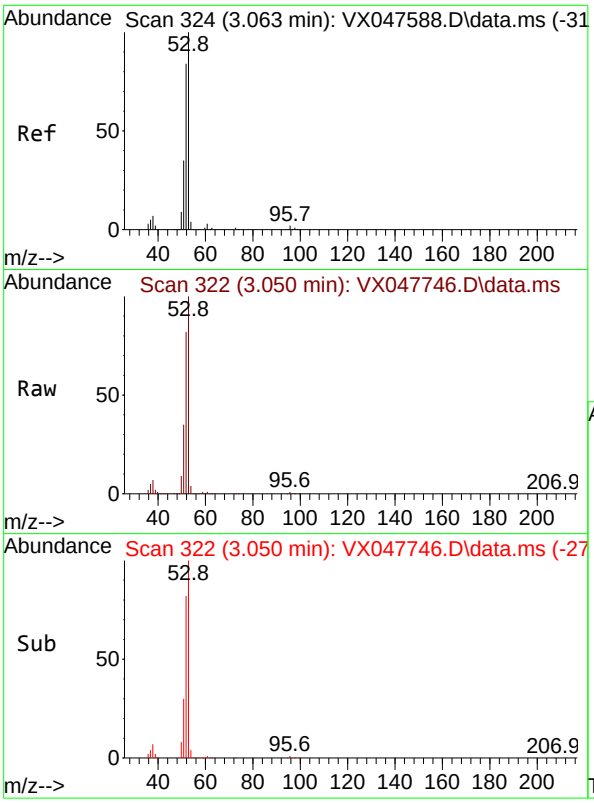


#14
Allyl chloride
Concen: 49.383 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 201882

Ion	Ratio	Lower	Upper
41	100		
39	64.8	54.7	82.1
76	32.5	25.7	38.5



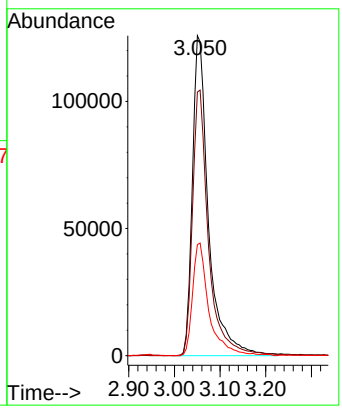


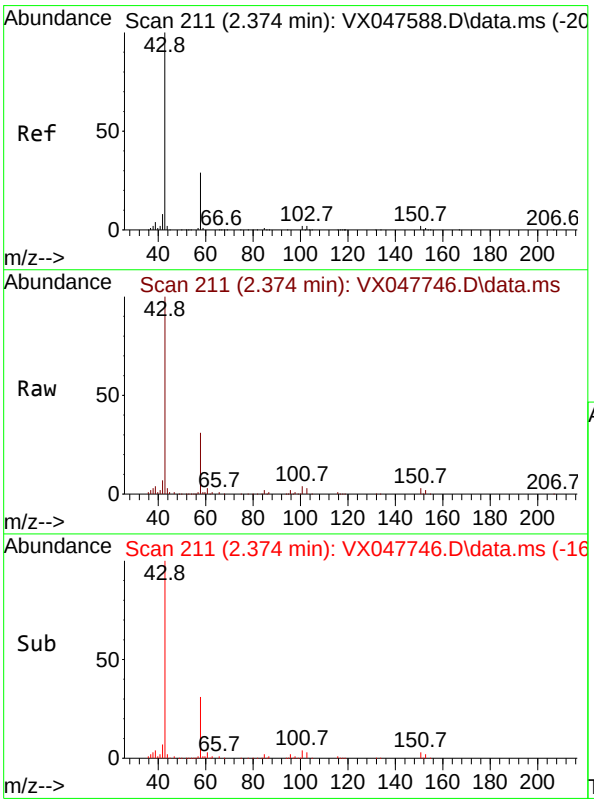
#15
Acrylonitrile
Concen: 281.629 ug/l
RT: 3.050 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 308364

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.0	29.5	44.3

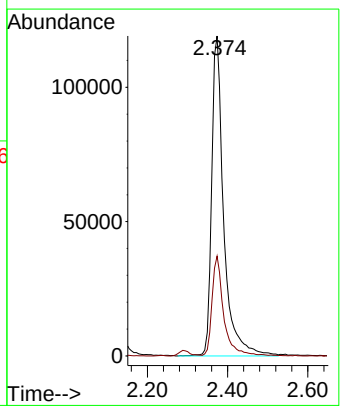


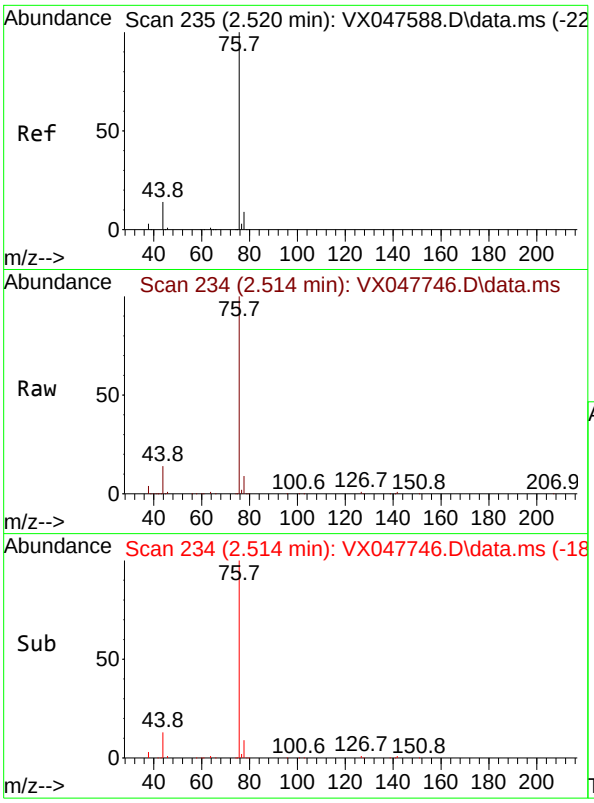


#16
Acetone
Concen: 214.945 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 248054

Ion	Ratio	Lower	Upper
43	100		
58	31.1	23.4	35.0



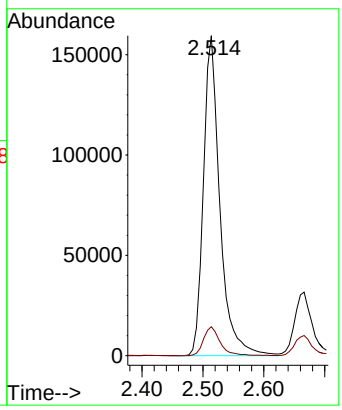


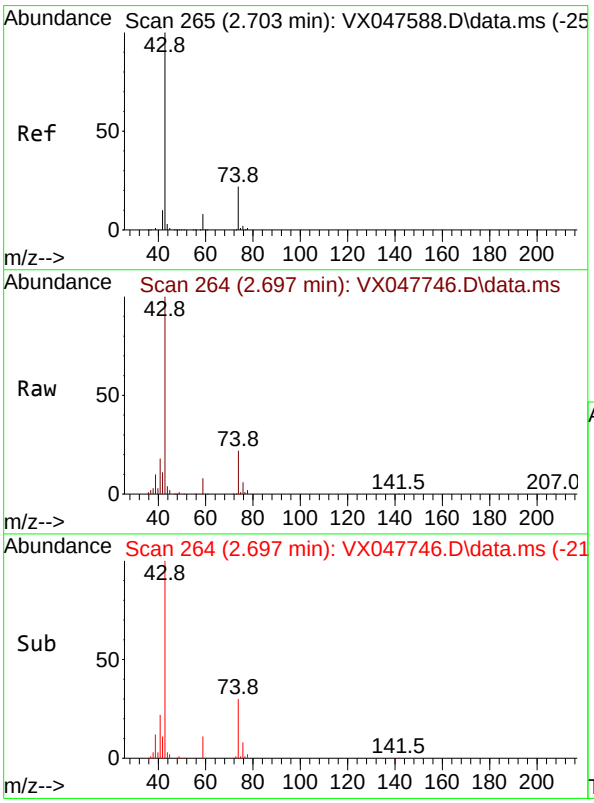
#17
Carbon Disulfide
Concen: 55.218 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 299474

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2

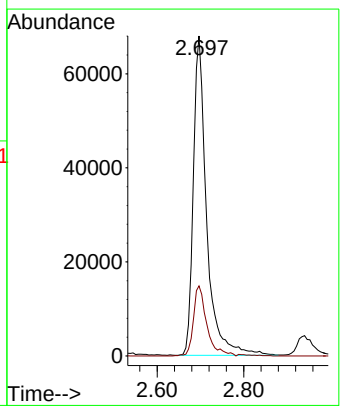


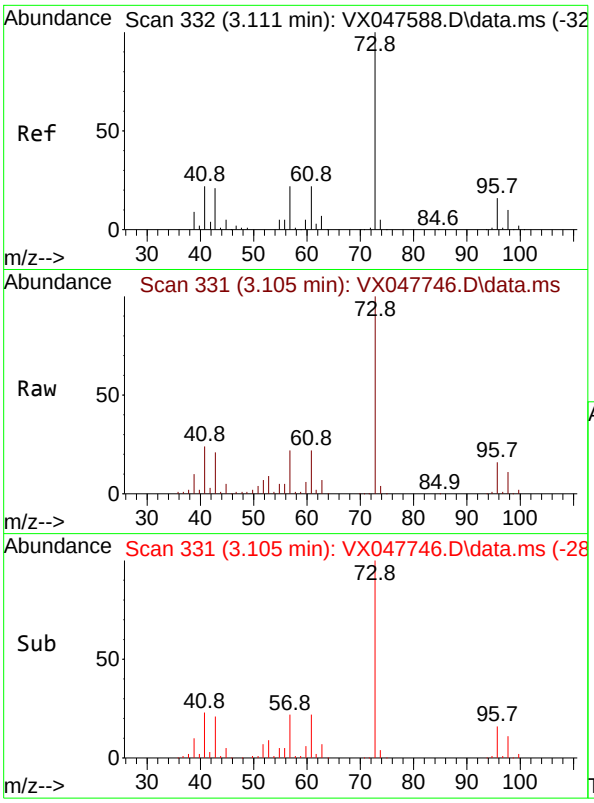


#18
Methyl Acetate
Concen: 56.326 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 144662

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2



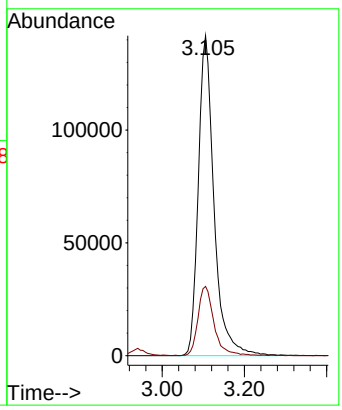


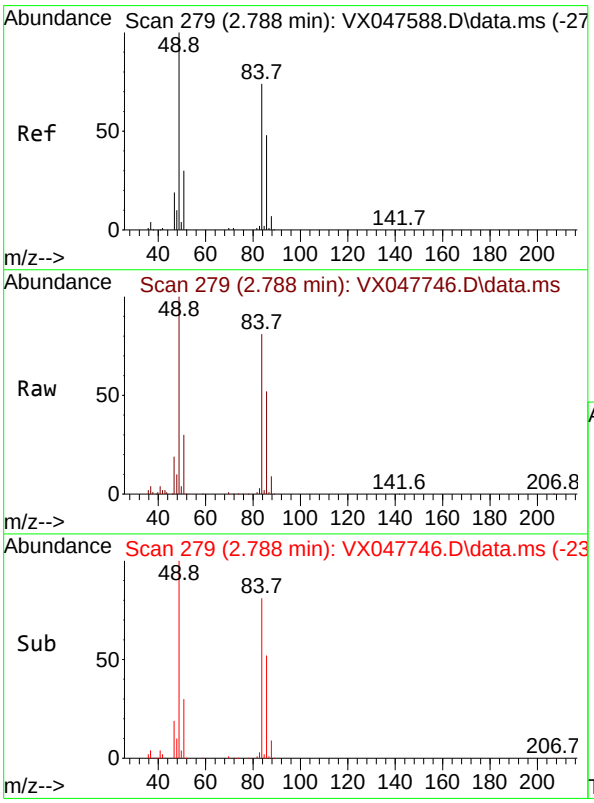
#19
Methyl tert-butyl Ether
Concen: 51.946 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 375666

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2

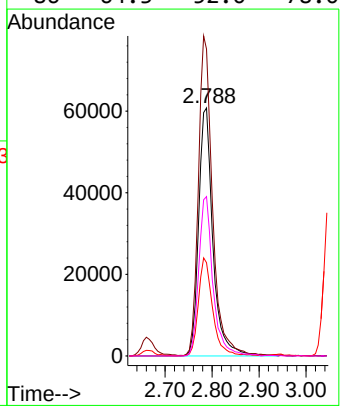


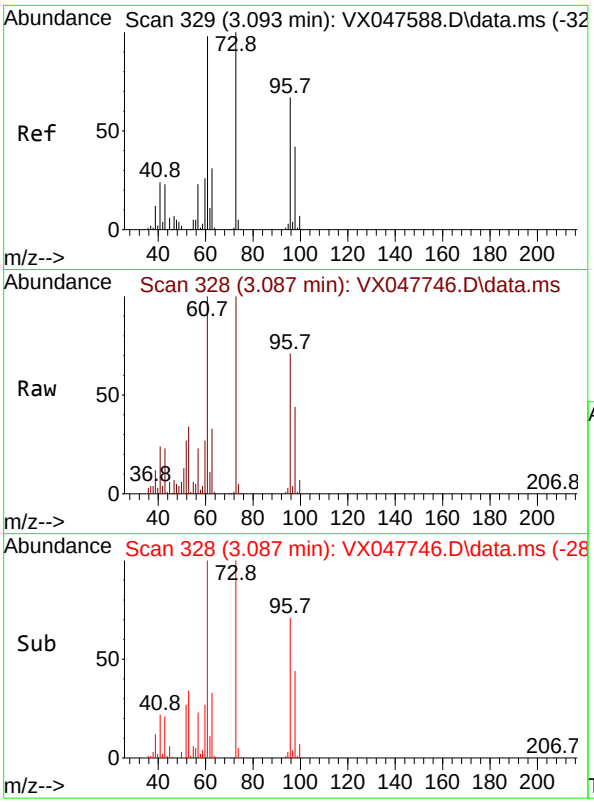


#20
Methylene Chloride
Concen: 52.632 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 84 Resp: 128569

Ion	Ratio	Lower	Upper
84	100		
49	123.6	108.6	162.8
51	37.5	32.6	48.8
86	64.3	52.0	78.0



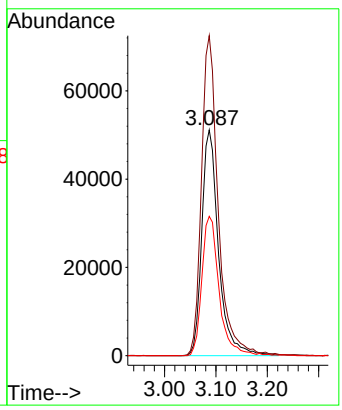


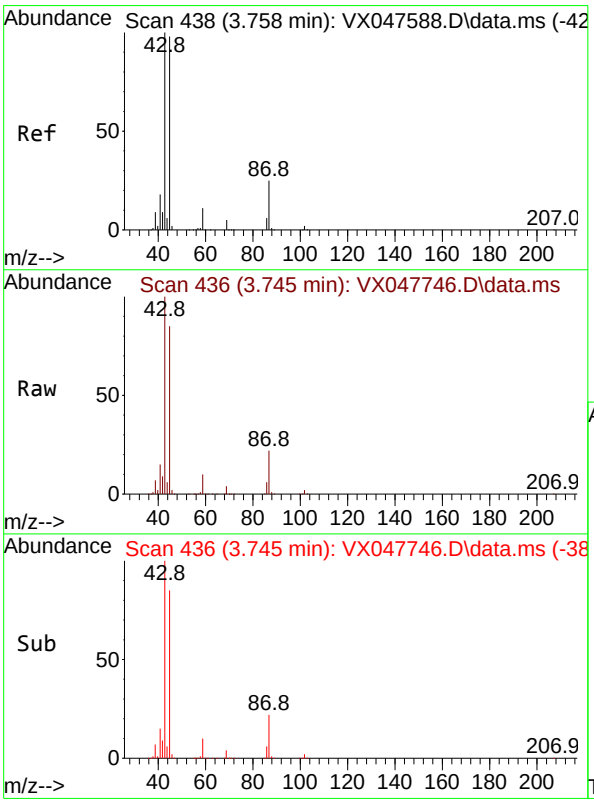
#21
trans-1,2-Dichloroethene
Concen: 54.315 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 115848

Ion	Ratio	Lower	Upper
96	100		
61	141.7	116.2	174.2
98	61.7	49.3	73.9

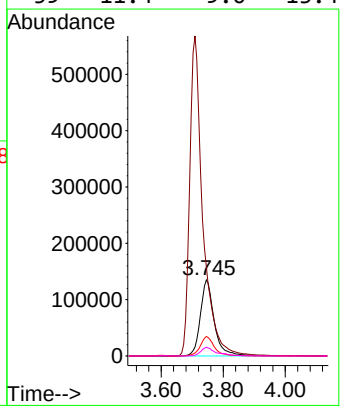


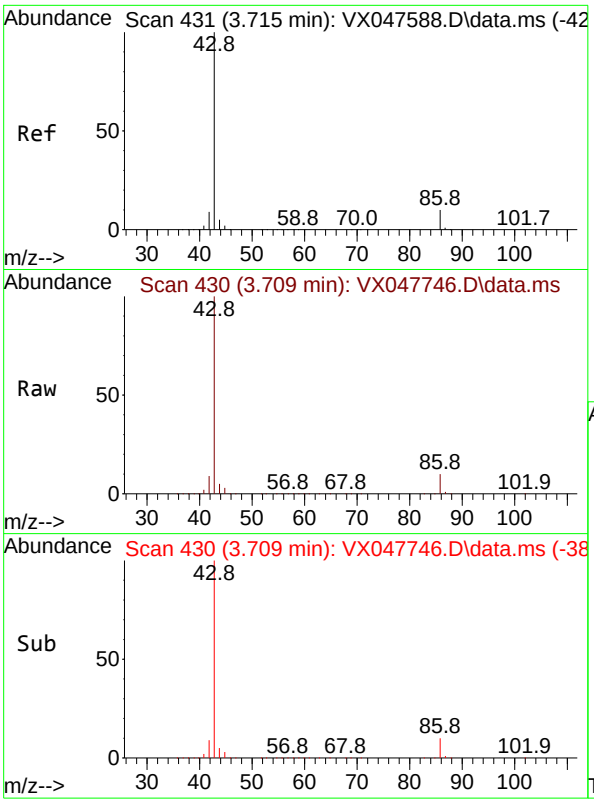


#22
Diisopropyl ether
Concen: 52.658 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 45 Resp: 417196

Ion	Ratio	Lower	Upper
45	100		
43	116.9	81.0	121.4
87	25.7	20.3	30.5
59	11.4	9.0	13.4



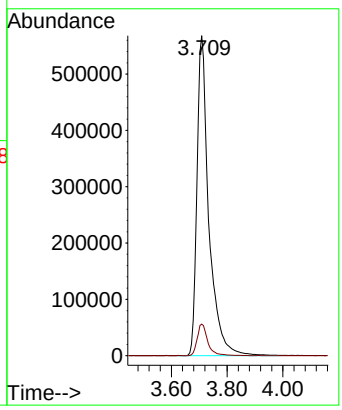


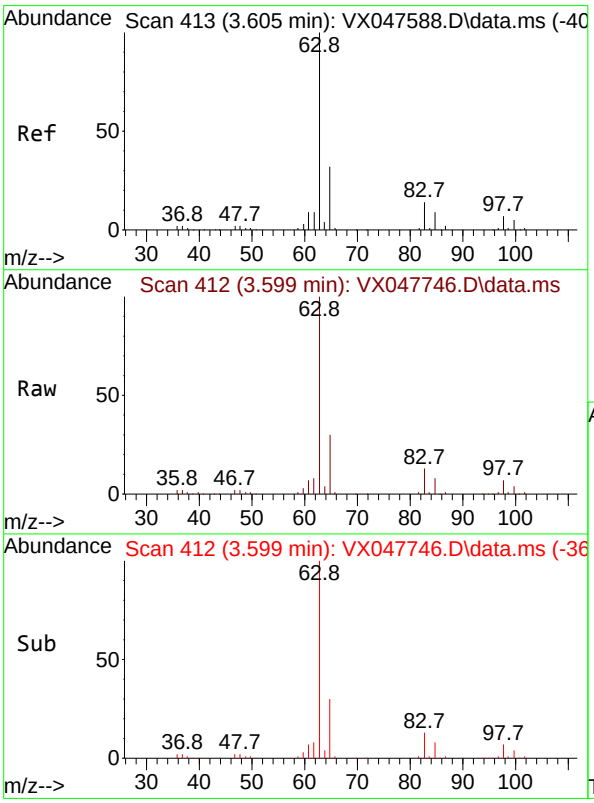
#23
Vinyl Acetate
Concen: 264.433 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1676763

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8

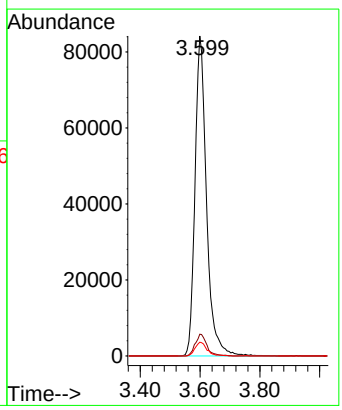


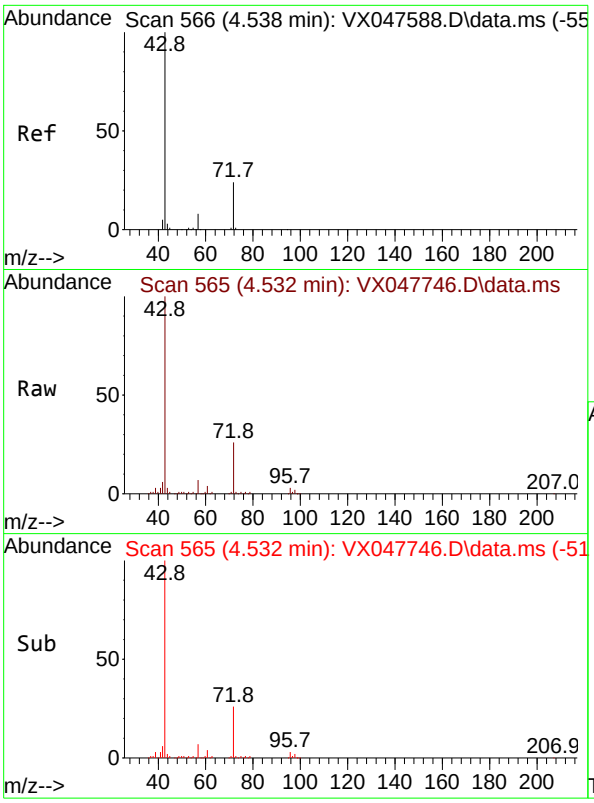


#24
1,1-Dichloroethane
Concen: 53.426 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 224981

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.8	11.2
100	4.4	2.3	6.9



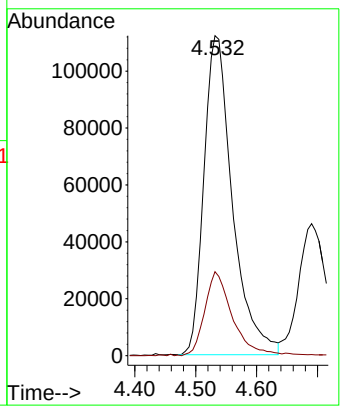


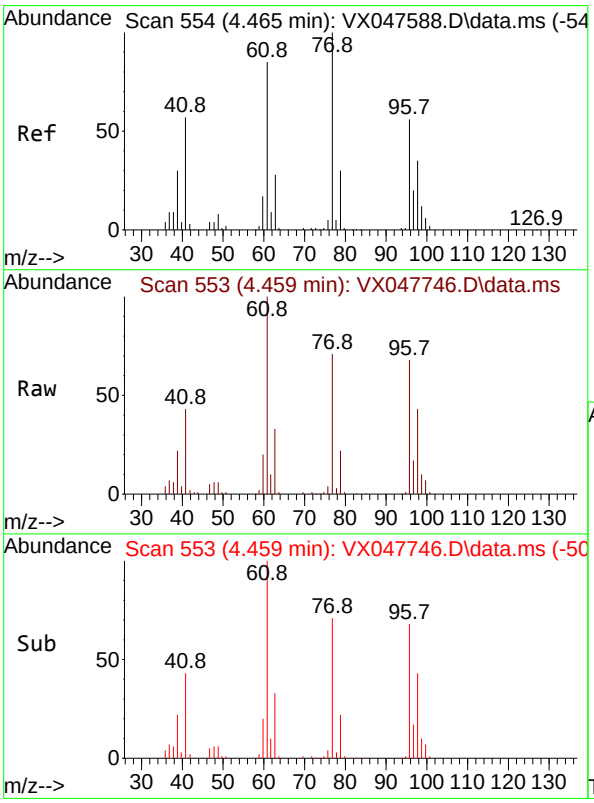
#25
2-Butanone
Concen: 253.647 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 365129

Ion	Ratio	Lower	Upper
43	100		
72	26.1	20.1	30.1

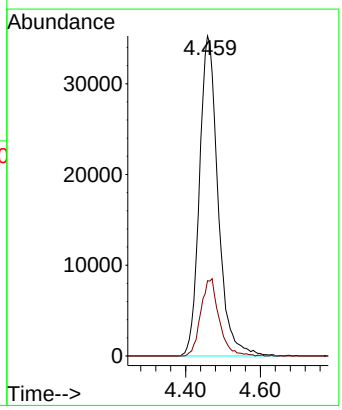


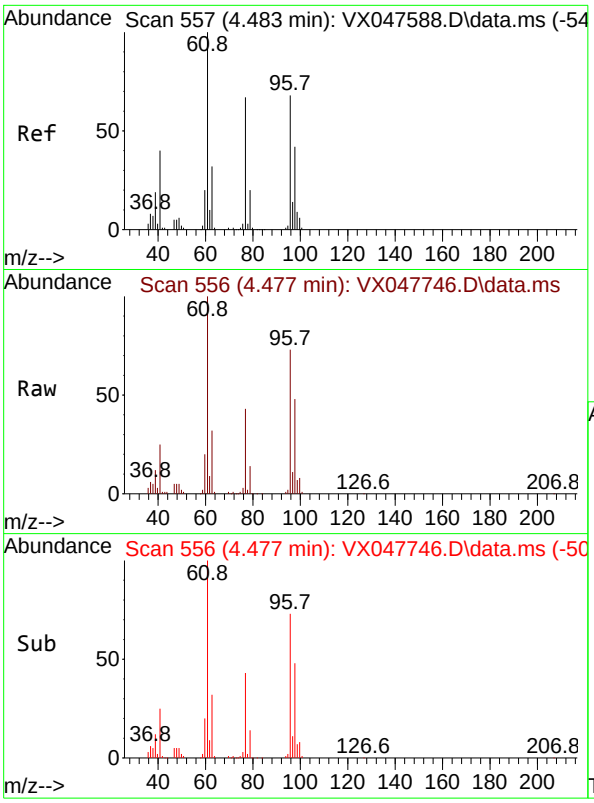


#26
2,2-Dichloropropane
Concen: 34.769 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 77 Resp: 121706

Ion	Ratio	Lower	Upper
77	100		
97	23.7	10.9	32.7



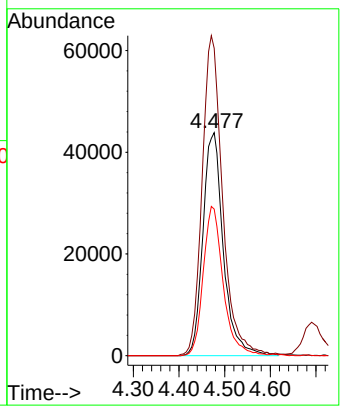


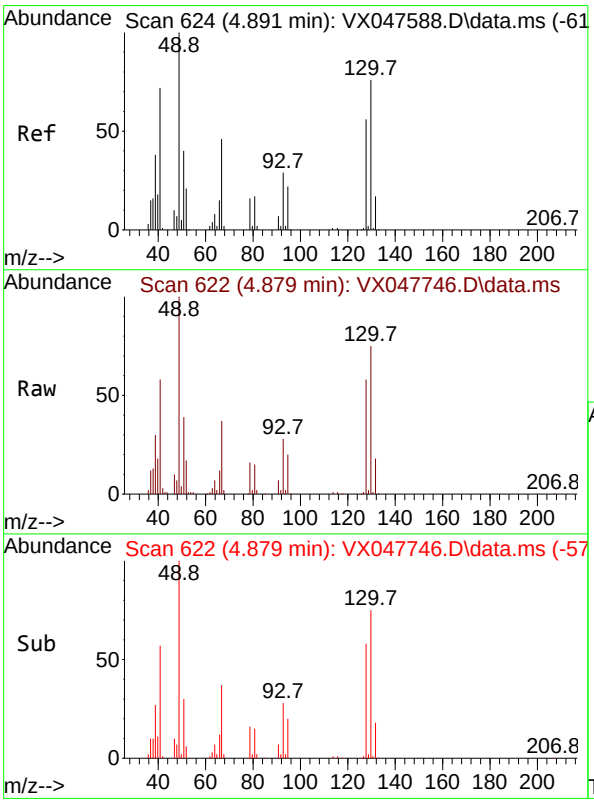
#27
cis-1,2-Dichloroethene
Concen: 52.016 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 135871

Ion	Ratio	Lower	Upper
96	100		
61	144.0	0.0	303.2
98	65.3	0.0	127.8

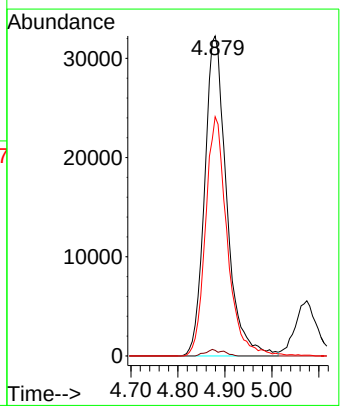


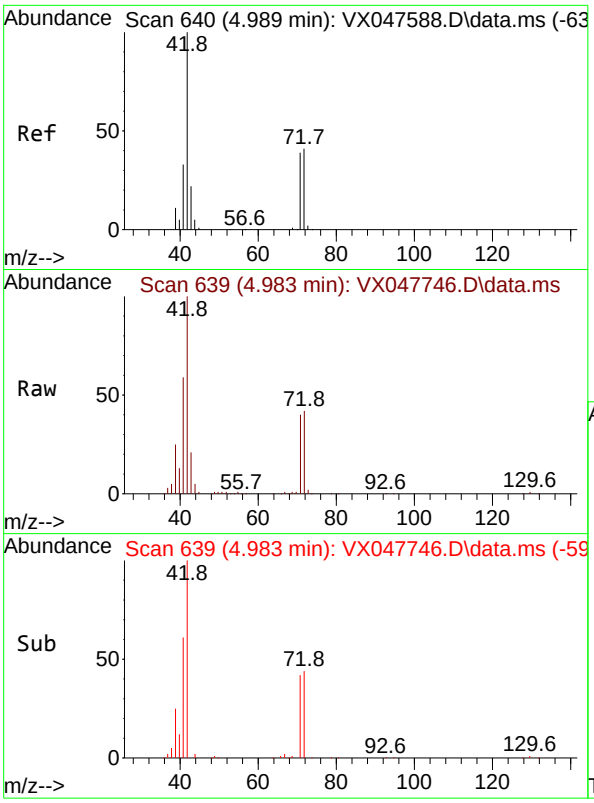


#28
Bromochloromethane
Concen: 57.010 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 49 Resp: 104808

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	73.8	57.8	86.8



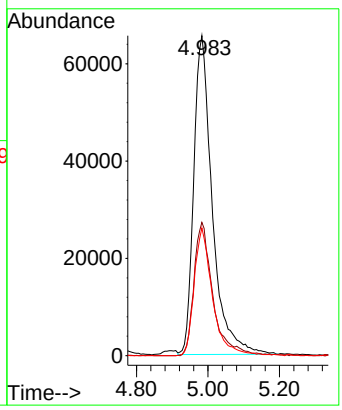


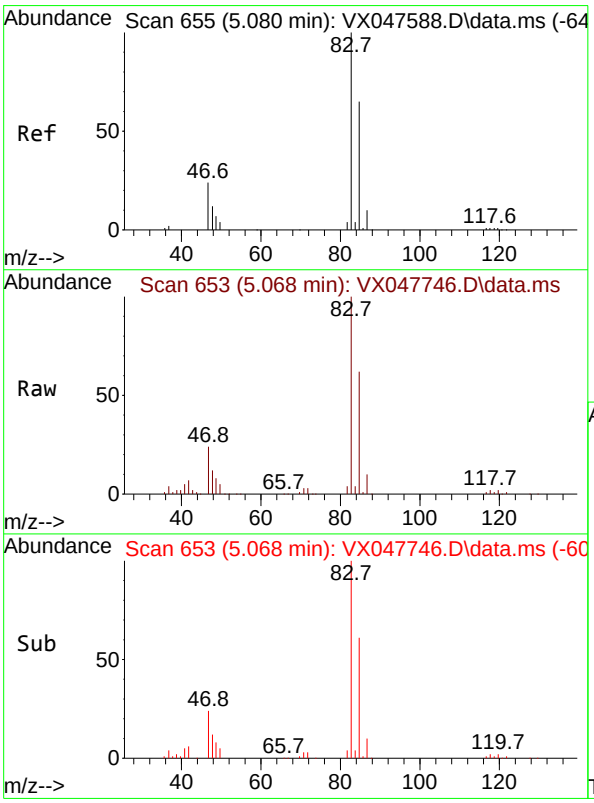
#29
Tetrahydrofuran
Concen: 272.674 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 236130

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.6	31.9	47.9

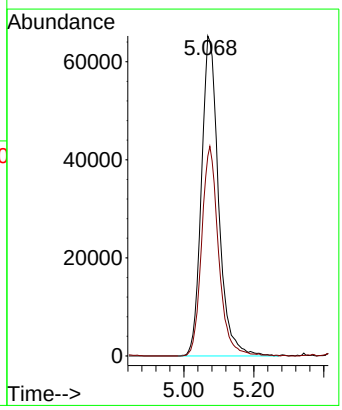


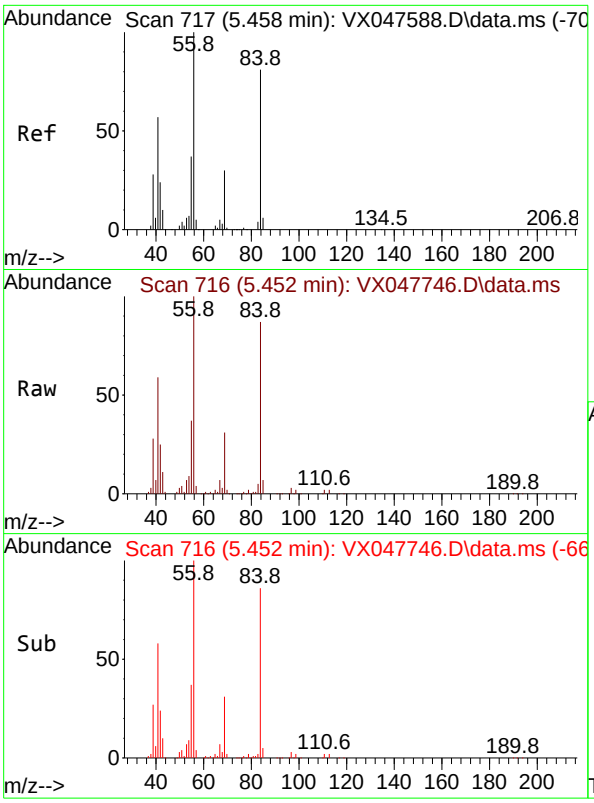


#30
Chloroform
Concen: 52.050 ug/l
RT: 5.068 min Scan# 653
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 83 Resp: 221493

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.8	77.6



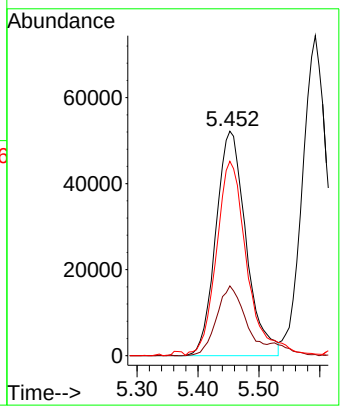


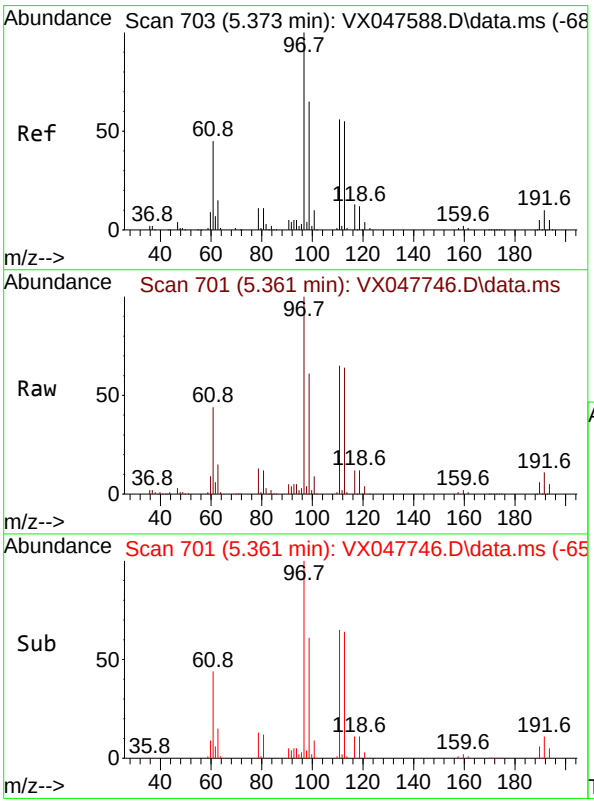
#31
Cyclohexane
Concen: 51.224 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 179654

Ion	Ratio	Lower	Upper
56	100		
69	30.8	23.8	35.8
84	84.7	64.6	97.0

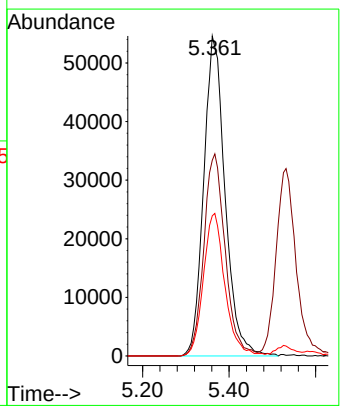


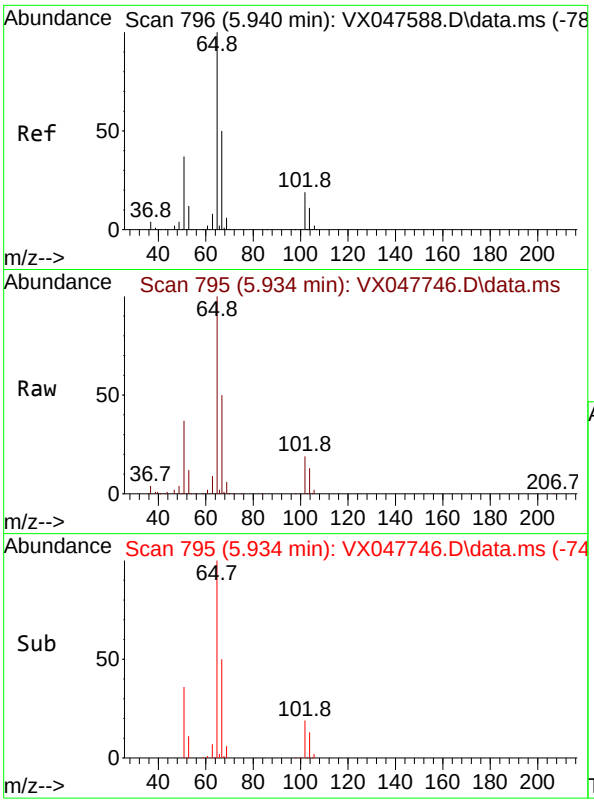


#32
1,1,1-Trichloroethane
Concen: 51.890 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 97 Resp: 187296

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.6	76.0
61	44.8	35.8	53.8



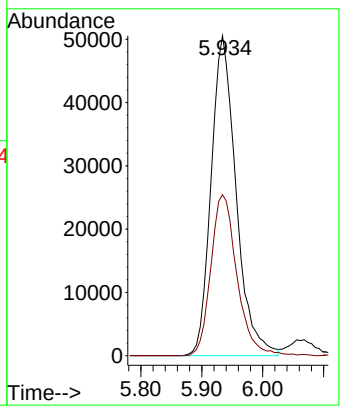


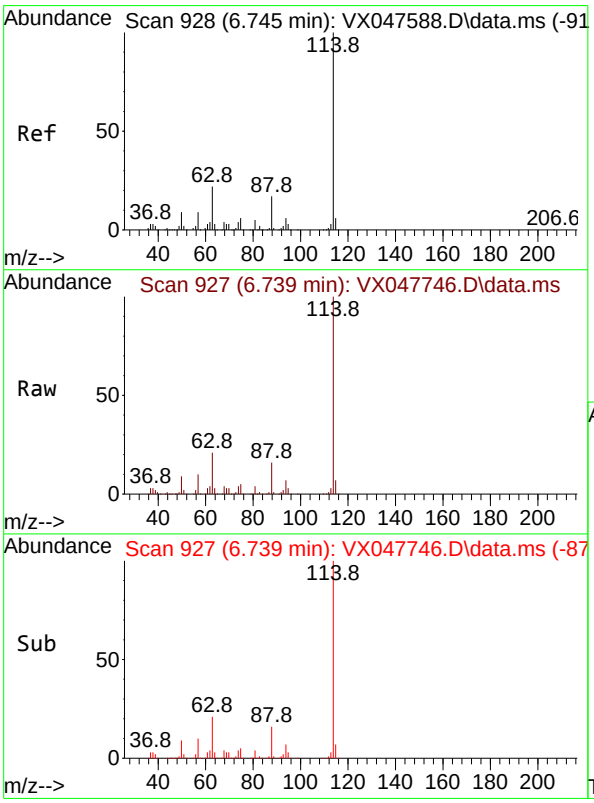
#33
1,2-Dichloroethane-d4
Concen: 54.210 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 143883

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0

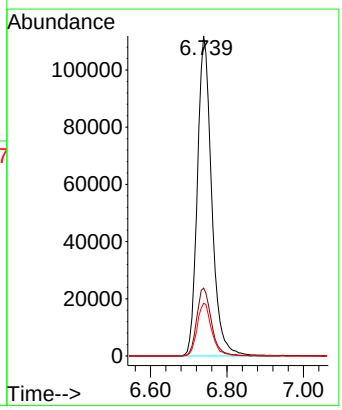


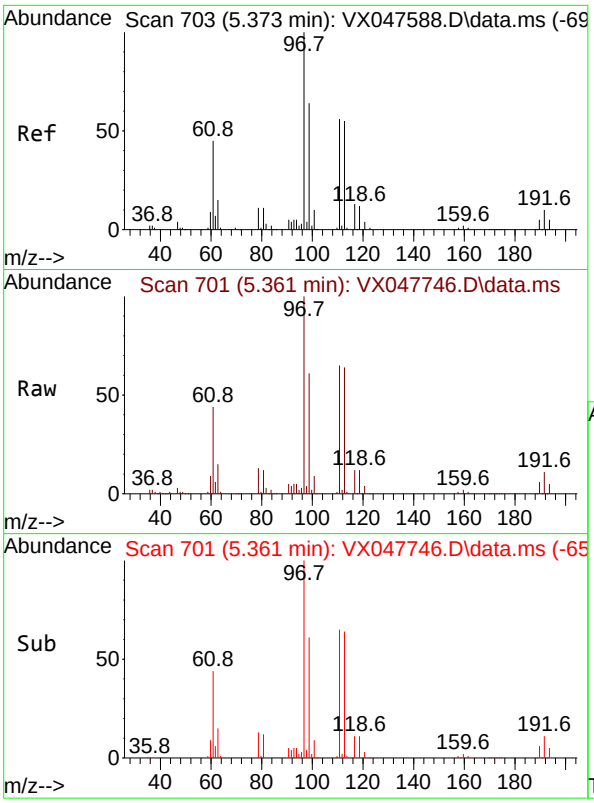


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:114 Resp: 290663

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	44.0
88	16.4	0.0	34.2



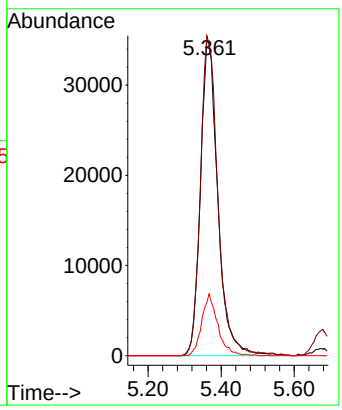


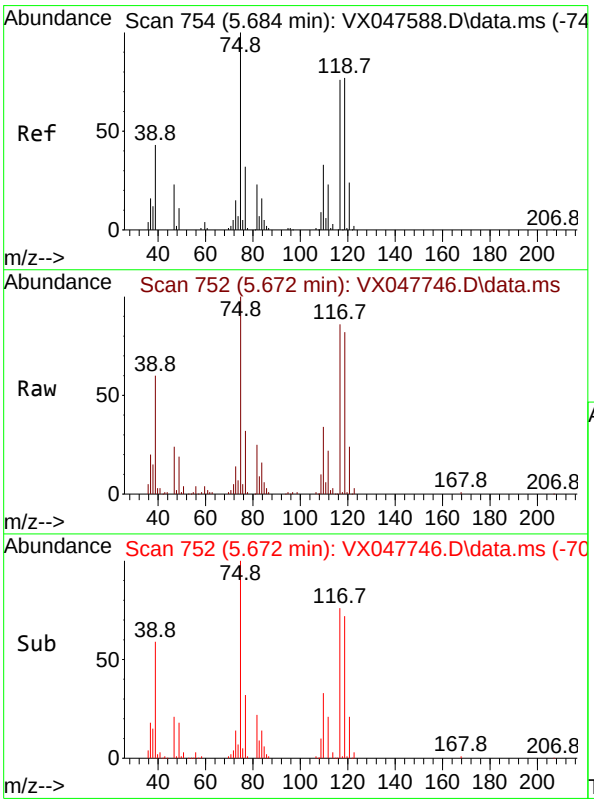
#35
Dibromofluoromethane
Concen: 59.312 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 115620

Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.9	121.3
192	17.9	14.2	21.4

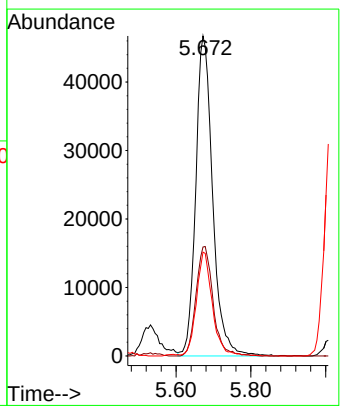


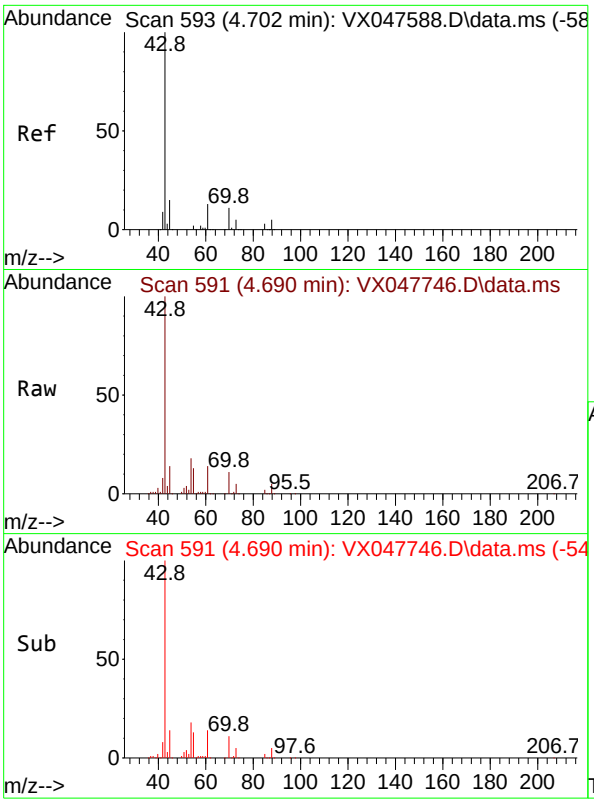


#36
1,1-Dichloropropene
Concen: 51.432 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 146503

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	30.3	24.3	36.5



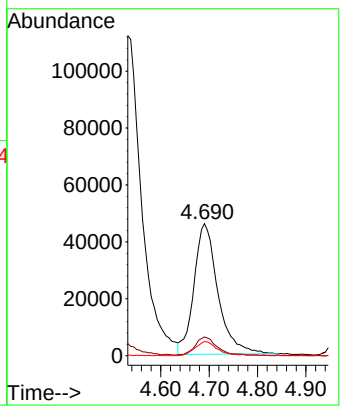


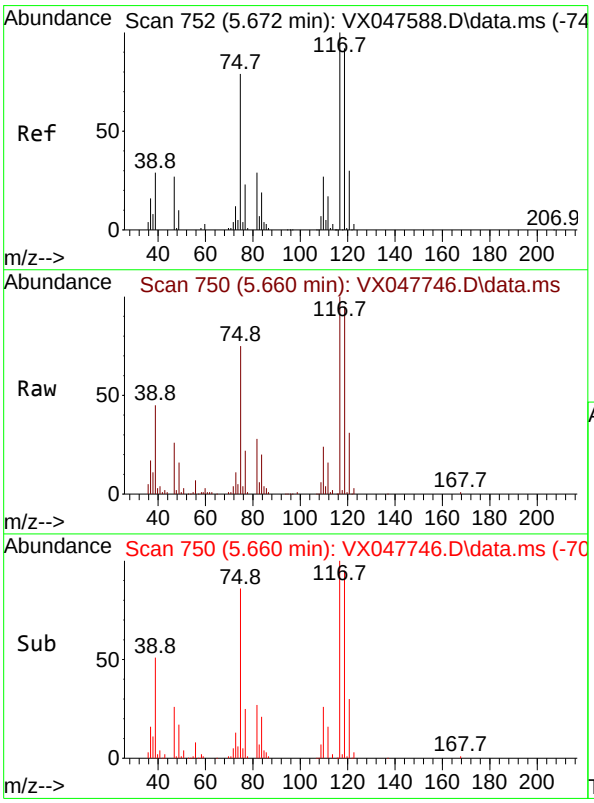
#37
Ethyl Acetate
Concen: 51.660 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 157558

Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.8	14.8
70	10.4	7.9	11.9

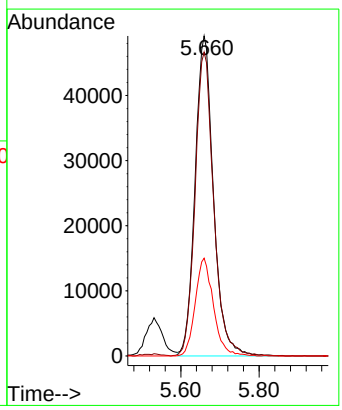


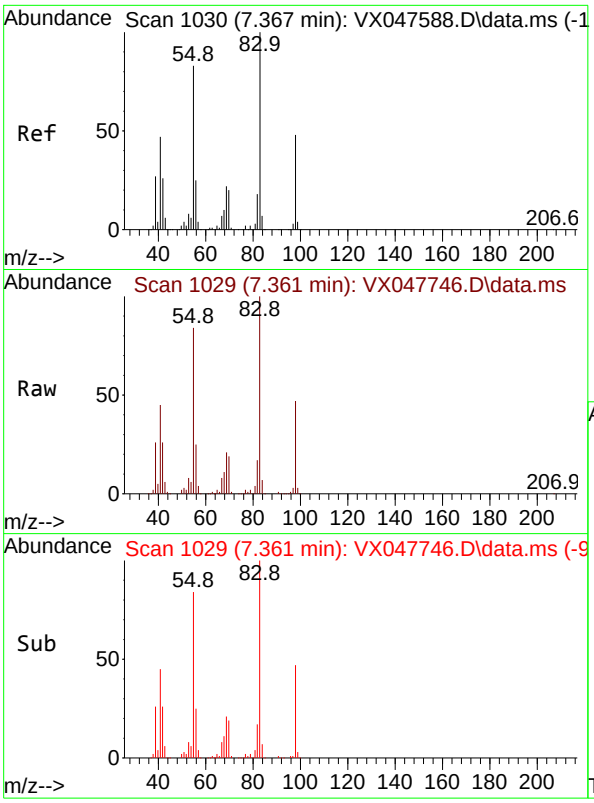


#38
Carbon Tetrachloride
Concen: 51.986 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 160891

Ion	Ratio	Lower	Upper
117	100		
119	94.8	73.4	110.2
121	30.6	23.8	35.6



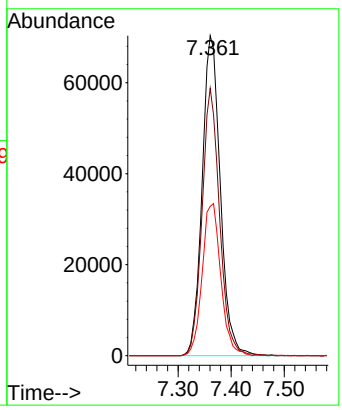


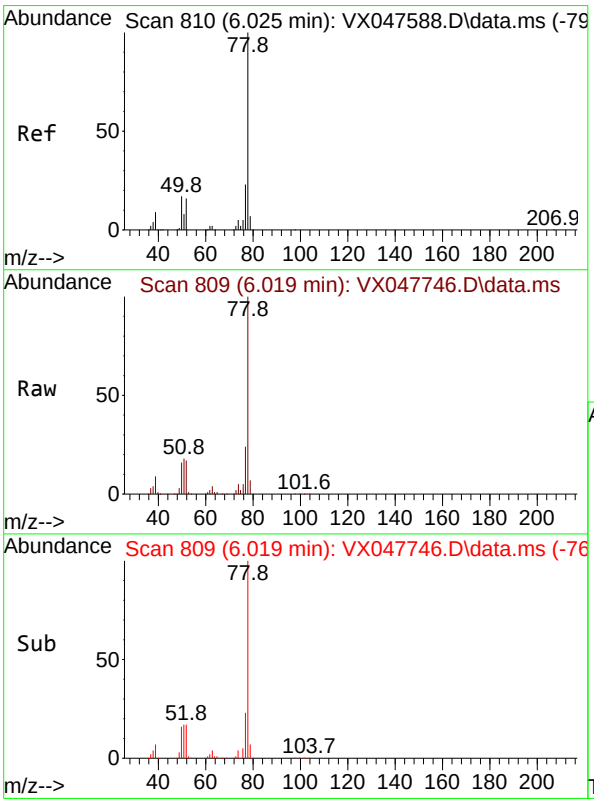
#39
Methylcyclohexane
Concen: 51.777 ug/l
RT: 7.361 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 167414

Ion	Ratio	Lower	Upper
83	100		
55	83.5	66.4	99.6
98	46.6	38.1	57.1

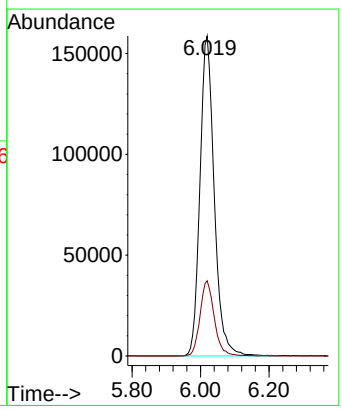


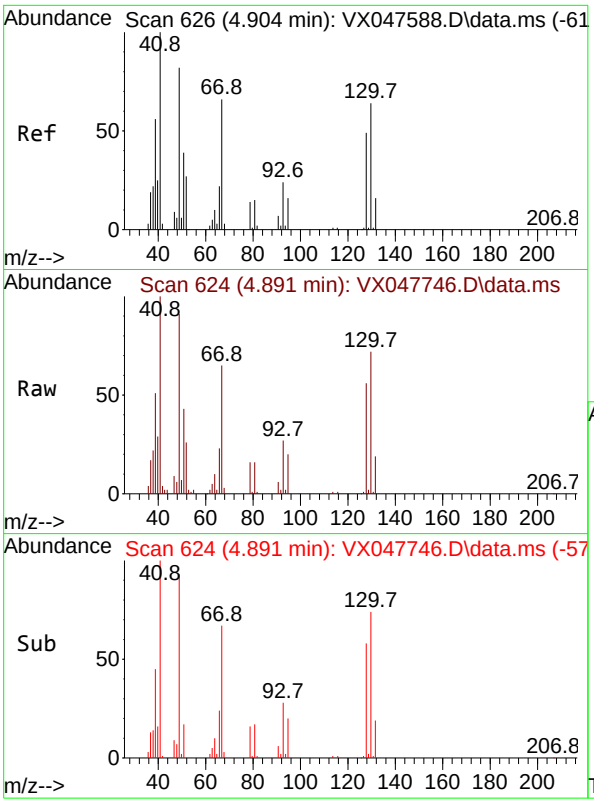


#40
Benzene
Concen: 53.223 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 78 Resp: 460455

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



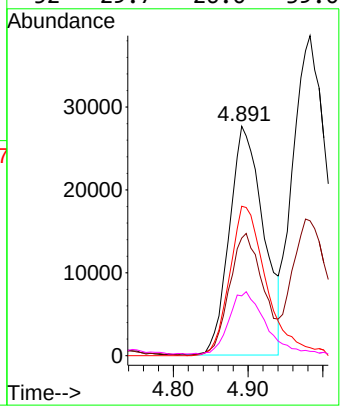


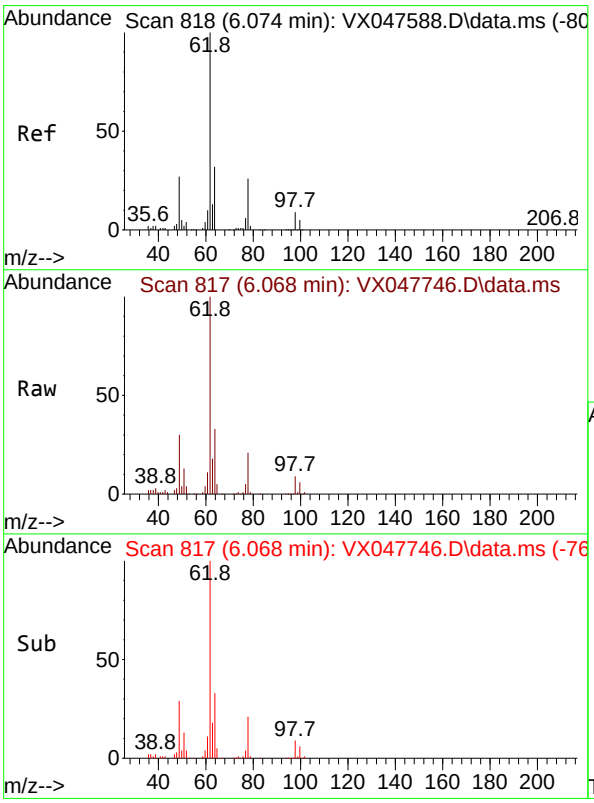
#41
Methacrylonitrile
Concen: 55.742 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 87766

Ion	Ratio	Lower	Upper
41	100		
39	53.4	43.3	64.9
67	70.6	58.6	87.8
52	29.7	26.0	39.0

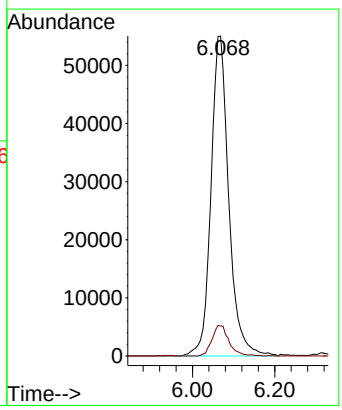


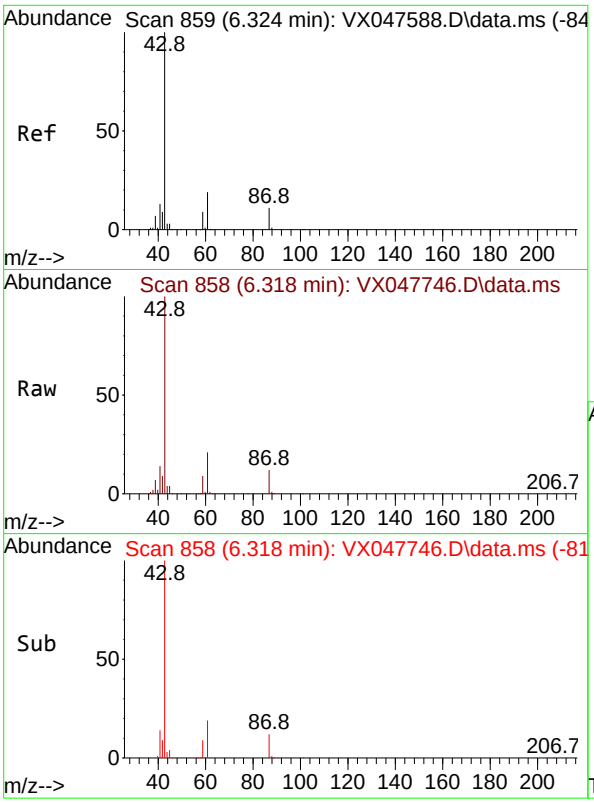


#42
1,2-Dichloroethane
Concen: 50.209 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 62 Resp: 165276

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	17.0



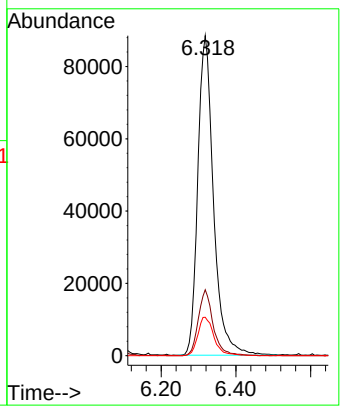


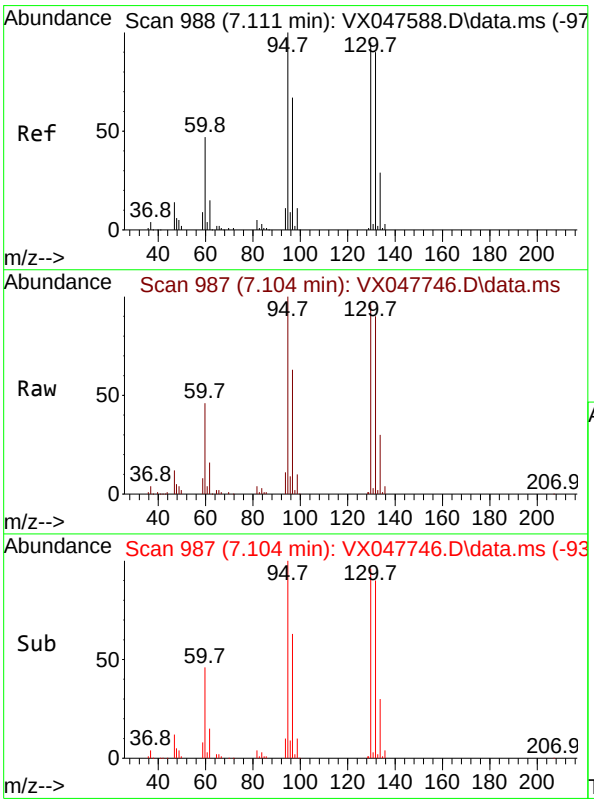
#43
Isopropyl Acetate
Concen: 51.528 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 257745

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.2	22.8
87	12.4	9.6	14.4

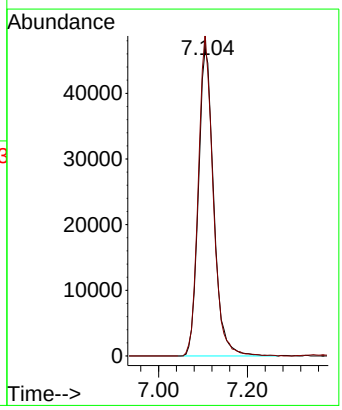


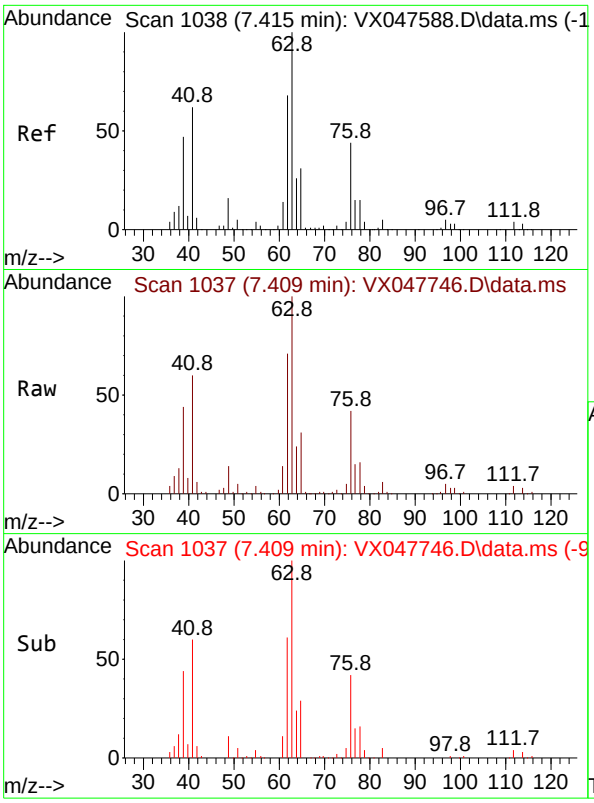


#44
Trichloroethene
Concen: 53.736 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:130 Resp: 112394

Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	210.8



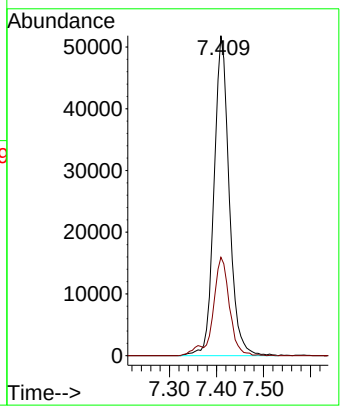


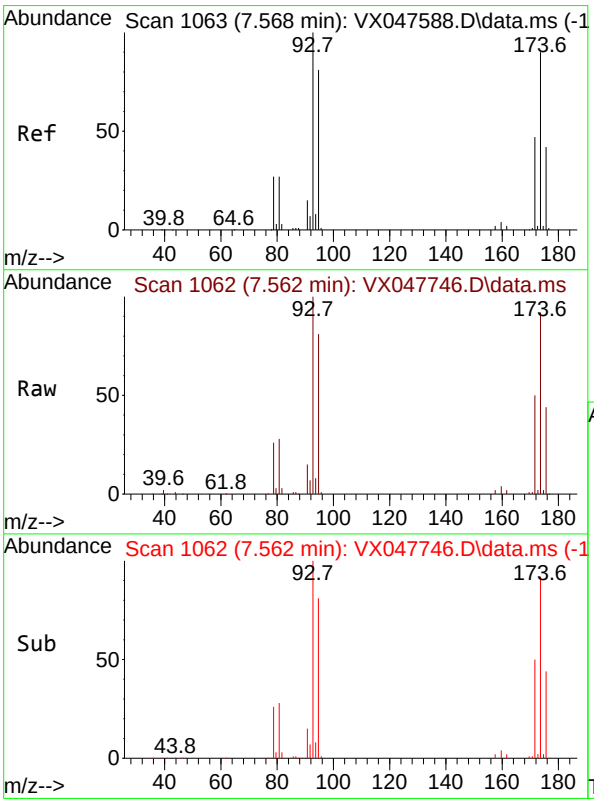
#45
1,2-Dichloropropane
Concen: 52.565 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 116449

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

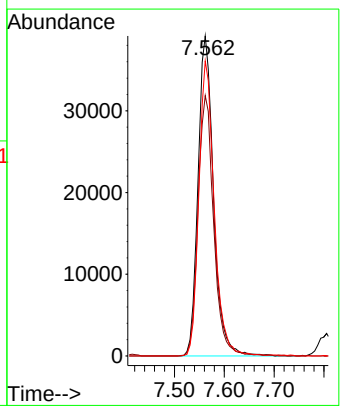


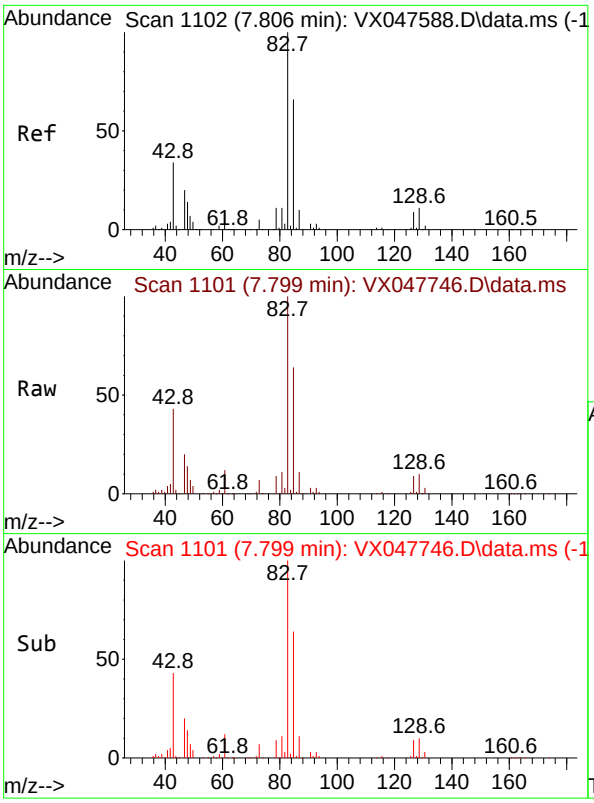


#46
Dibromomethane
Concen: 52.418 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 93 Resp: 84502

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.0	97.6
174	91.4	71.6	107.4



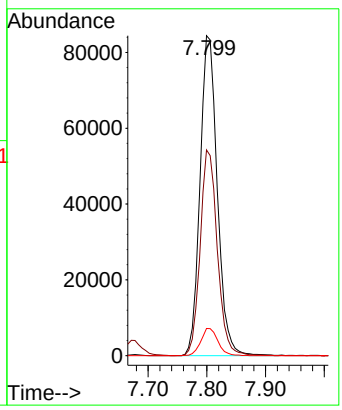


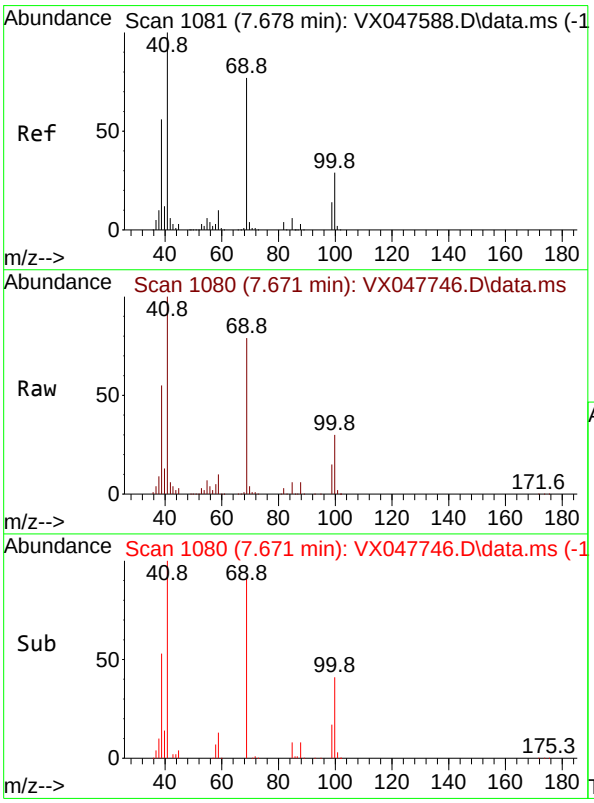
#47
Bromodichloromethane
Concen: 51.915 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 172703

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7
127	8.5	6.9	10.3

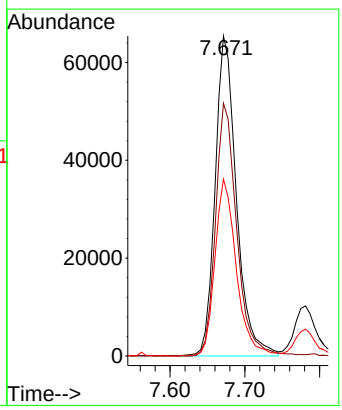


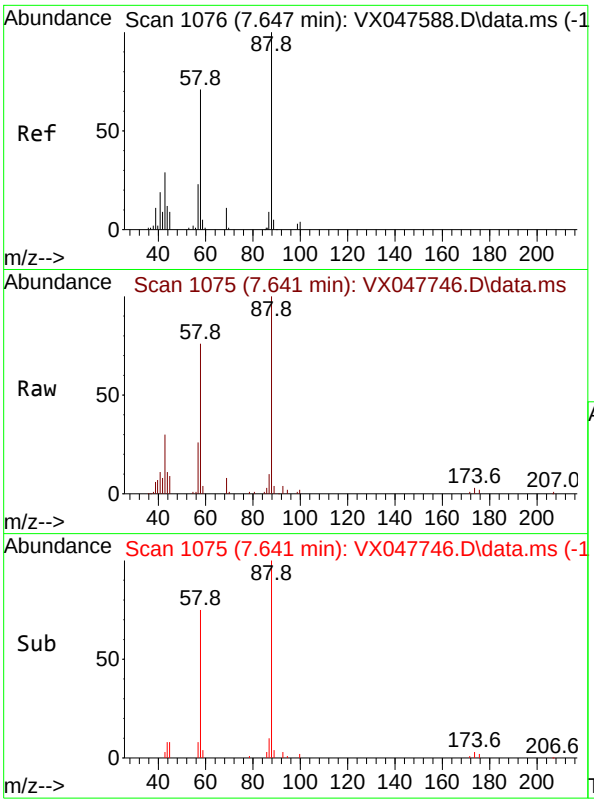


#48
Methyl methacrylate
Concen: 51.974 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 41 Resp: 129497

Ion	Ratio	Lower	Upper
41	100		
69	78.9	61.4	92.2
39	55.9	45.8	68.6



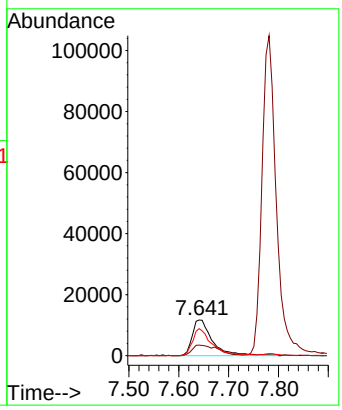


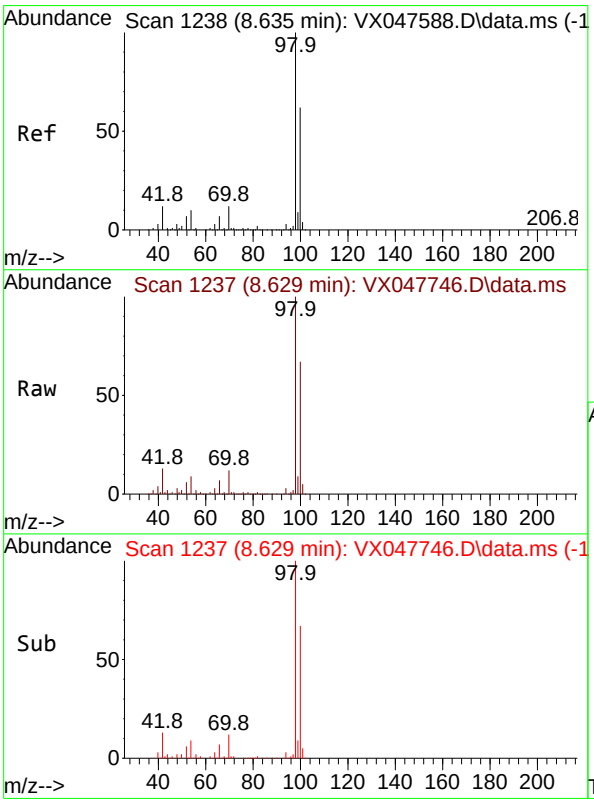
#49
1,4-Dioxane
Concen: 1306.764 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 32904

Ion	Ratio	Lower	Upper
88	100		
43	38.2	30.2	45.2
58	73.3	59.5	89.3

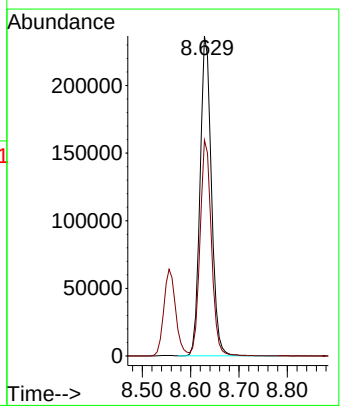


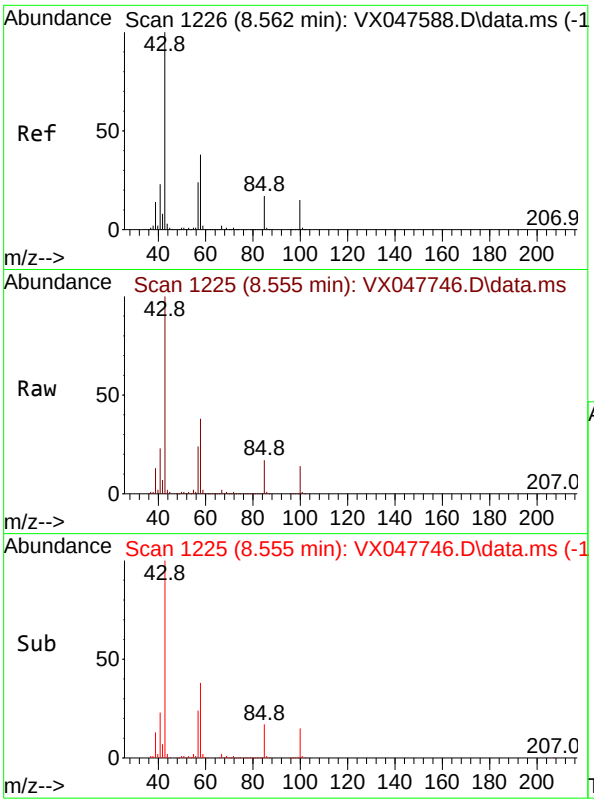


#50
Toluene-d8
Concen: 57.106 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 98 Resp: 385188

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4



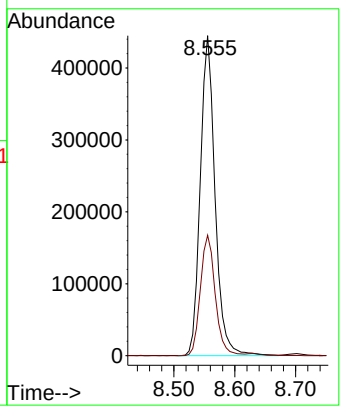


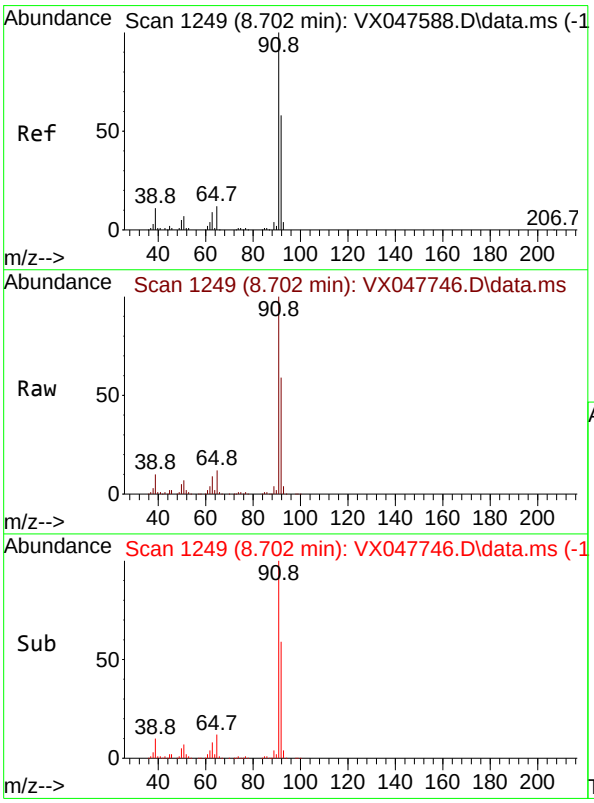
#51
4-Methyl-2-Pentanone
Concen: 270.171 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 749272

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5

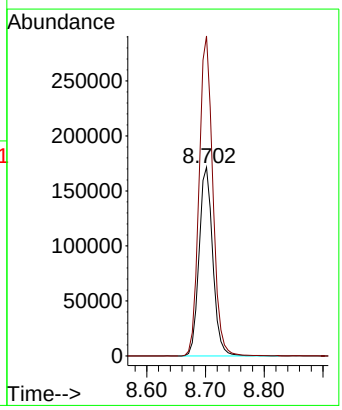


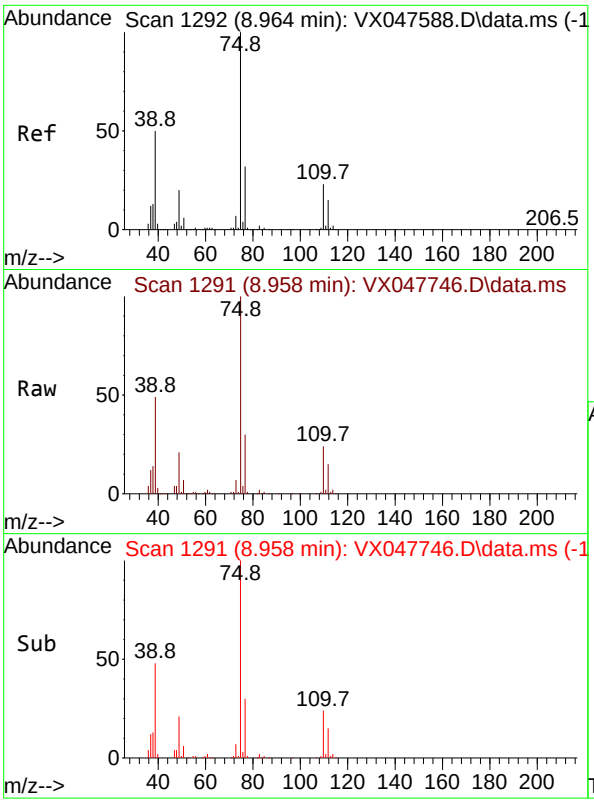


#52
Toluene
Concen: 51.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 92 Resp: 276160

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7



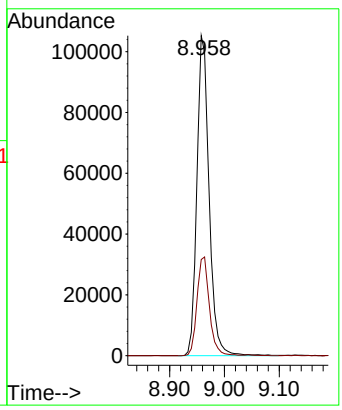


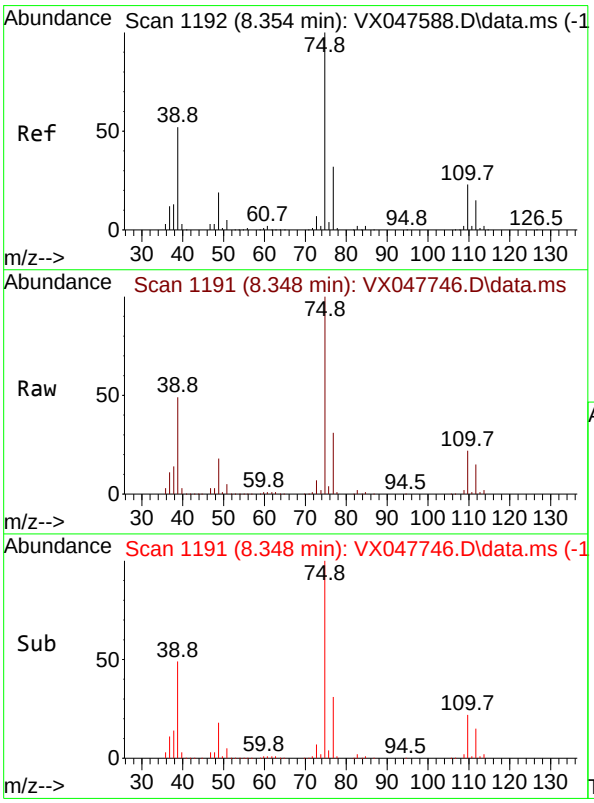
#53
t-1,3-Dichloropropene
Concen: 48.037 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 163001

Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.4	38.2

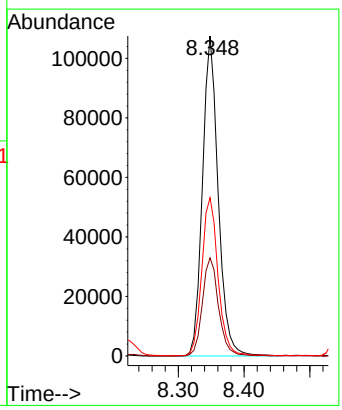


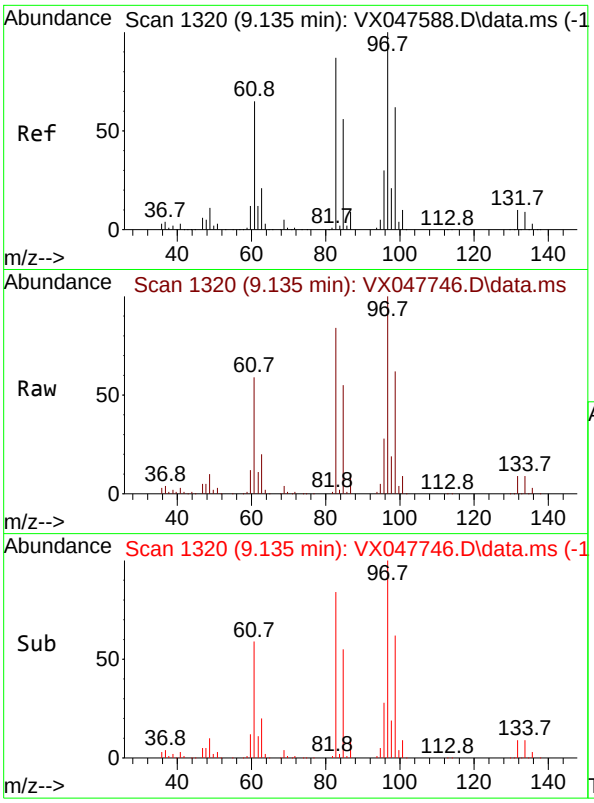


#54
cis-1,3-Dichloropropene
Concen: 49.218 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 178505

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.8	38.6
39	48.9	41.4	62.2



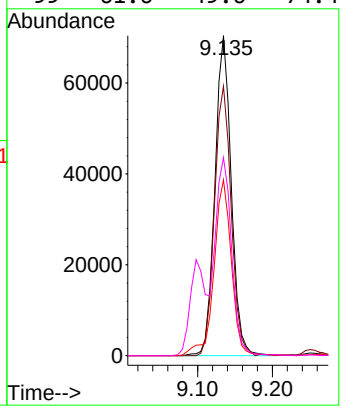


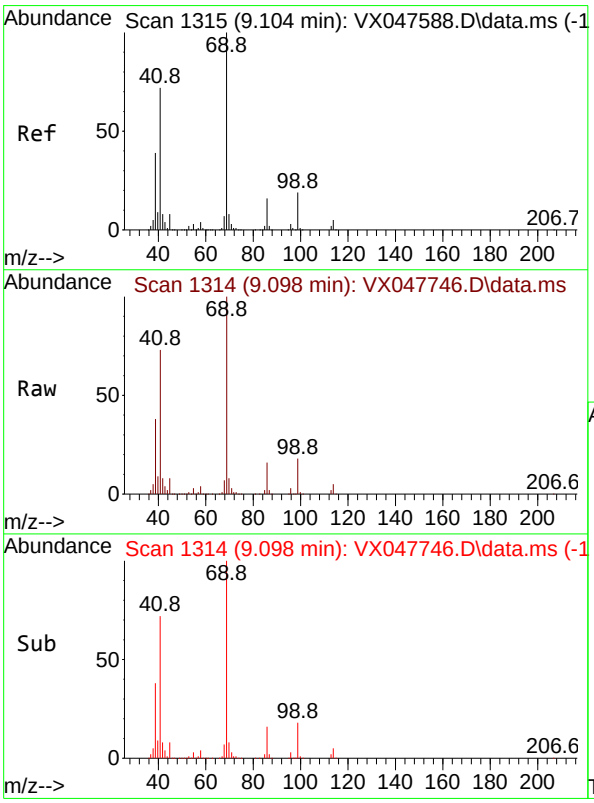
#55
1,1,2-Trichloroethane
Concen: 52.187 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 107258

Ion	Ratio	Lower	Upper
97	100		
83	84.2	69.6	104.4
85	55.0	45.0	67.6
99	61.6	49.6	74.4

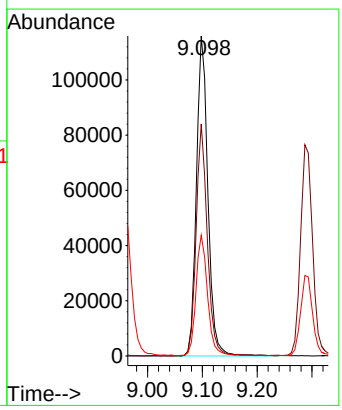


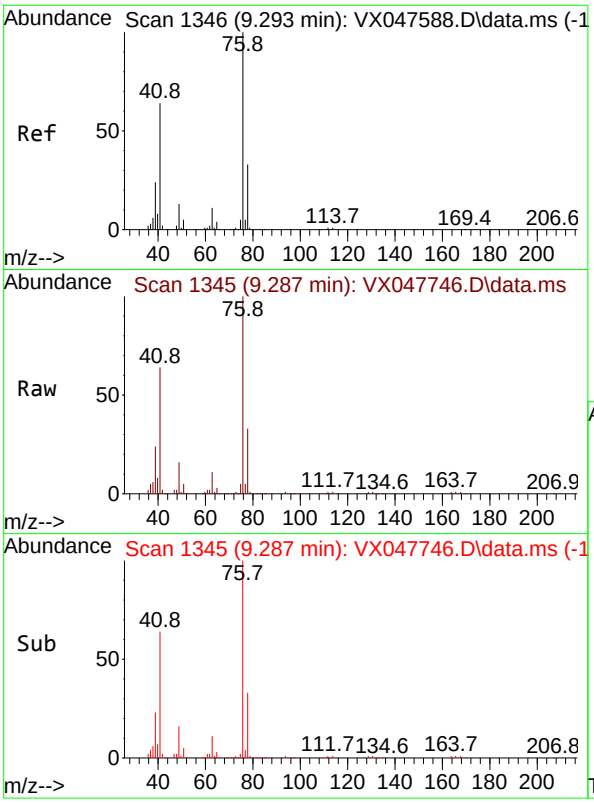


#56
Ethyl methacrylate
Concen: 52.534 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 69 Resp: 169567

Ion	Ratio	Lower	Upper
69	100		
41	70.6	58.6	87.8
39	37.8	31.5	47.3



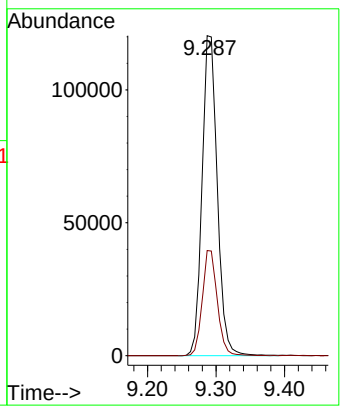


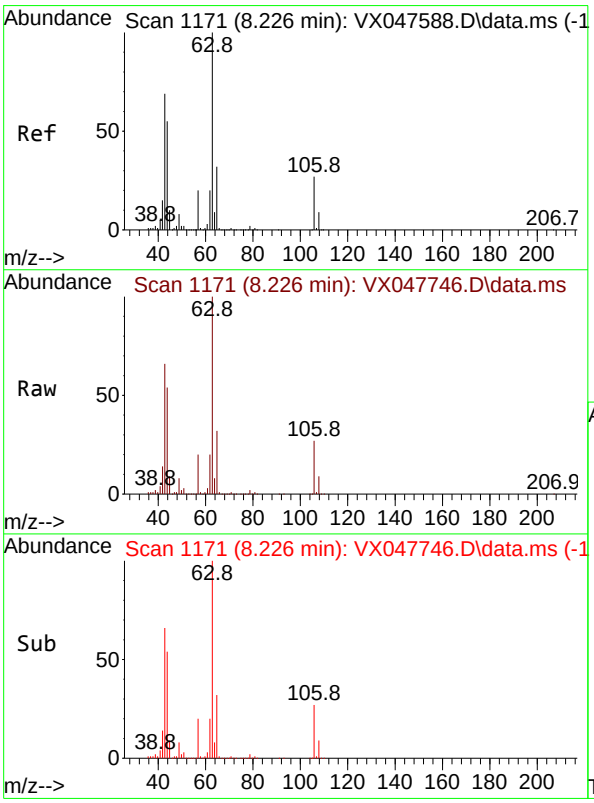
#57
1,3-Dichloropropane
Concen: 52.699 ug/l
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 186062

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.4

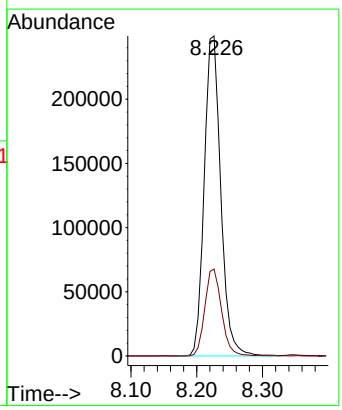


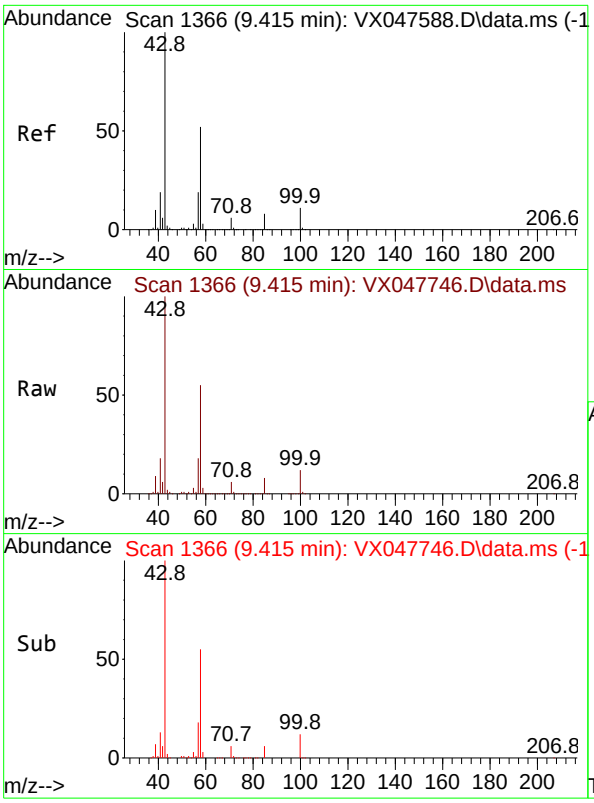


#58
2-Chloroethyl Vinyl ether
Concen: 280.568 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 63 Resp: 436211

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



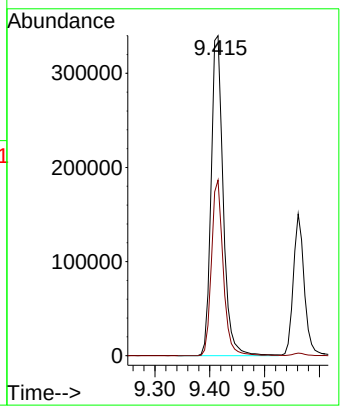


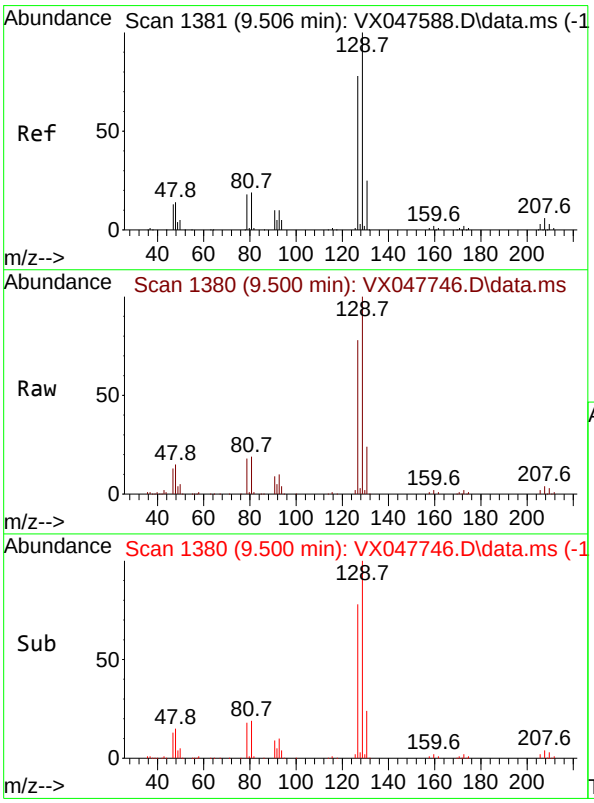
#59
2-Hexanone
Concen: 260.122 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 518114

Ion	Ratio	Lower	Upper
43	100		
58	53.4	26.1	78.2

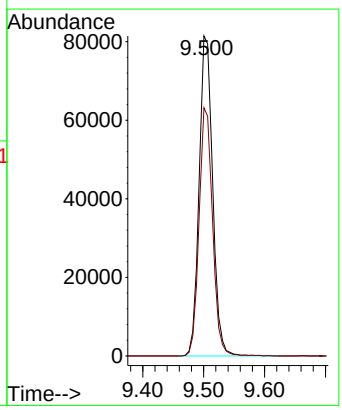


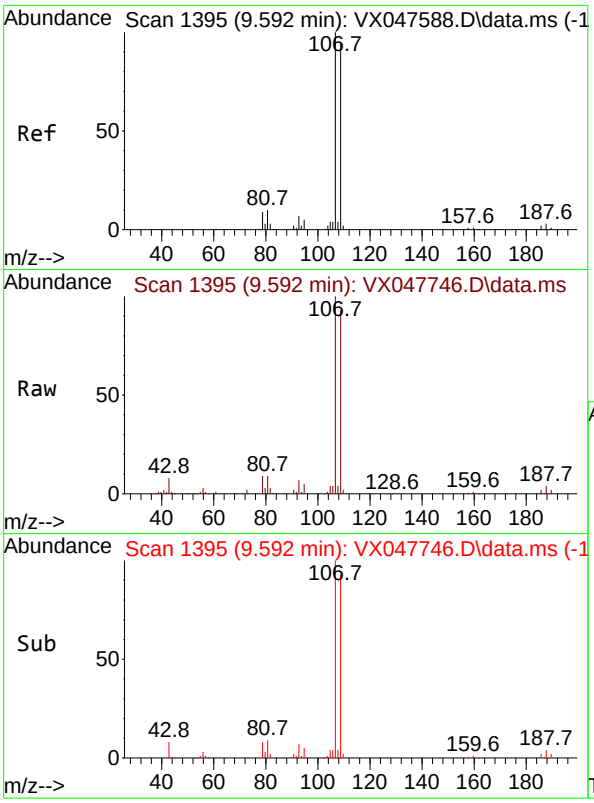


#60
Dibromochloromethane
Concen: 52.954 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:129 Resp: 125404

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.4	115.2



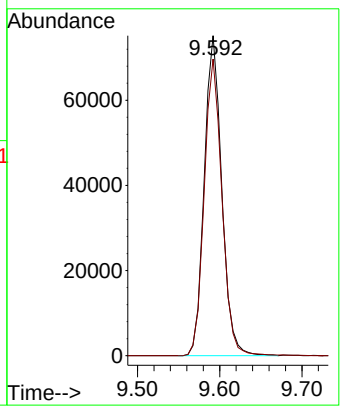


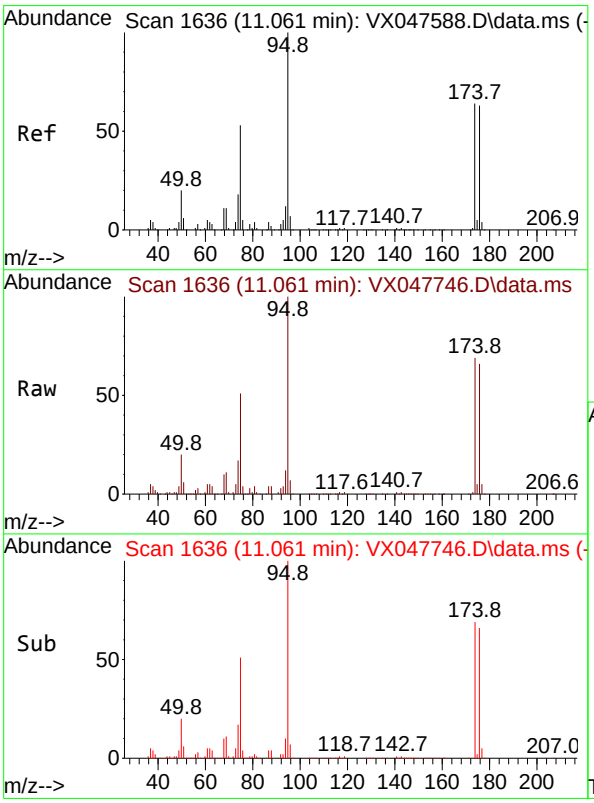
#61
1,2-Dibromoethane
Concen: 53.090 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 111139

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9

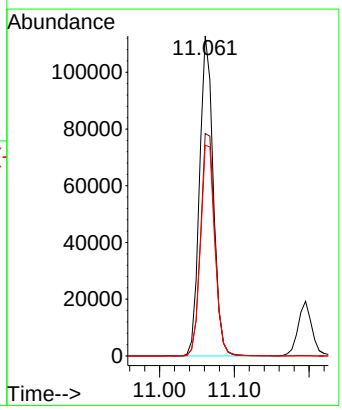


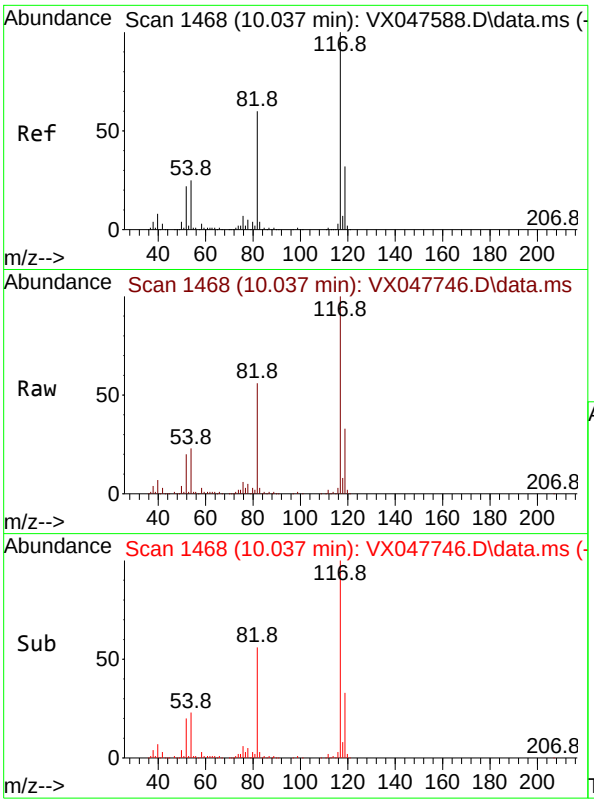


#62
4-Bromofluorobenzene
Concen: 55.994 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 95 Resp: 143339

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	141.6
176	69.0	0.0	138.4



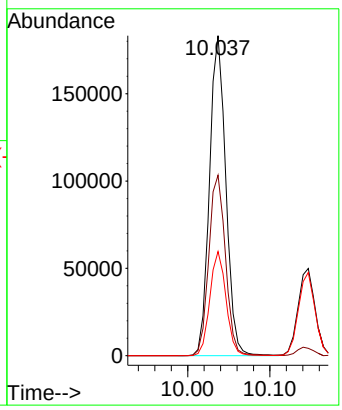


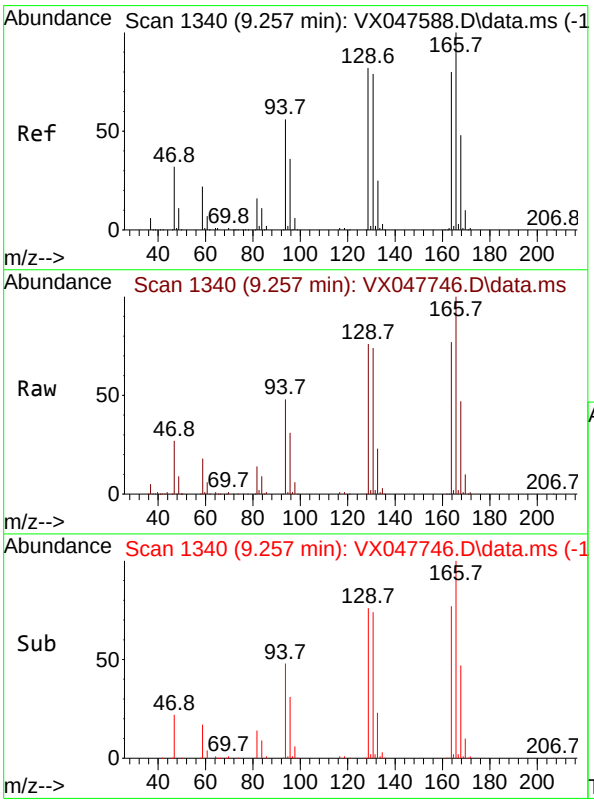
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 252770

Ion	Ratio	Lower	Upper
117	100		
82	56.4	47.8	71.6
119	32.6	25.2	37.8

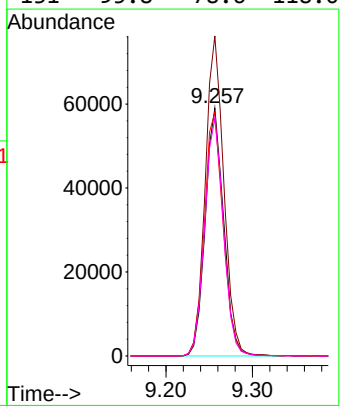


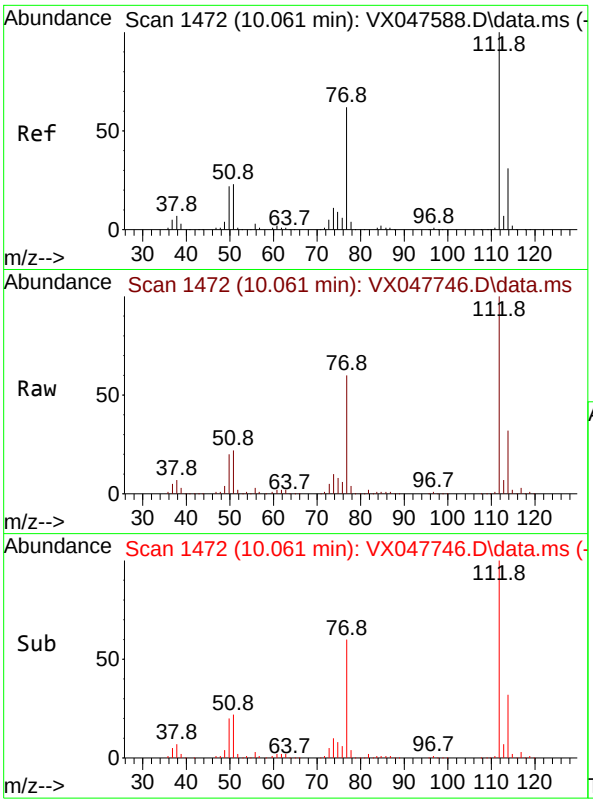


#64
Tetrachloroethene
Concen: 53.073 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:164 Resp: 87453

Ion	Ratio	Lower	Upper
164	100		
166	129.1	100.2	150.2
129	98.3	81.8	122.6
131	95.8	78.6	118.0



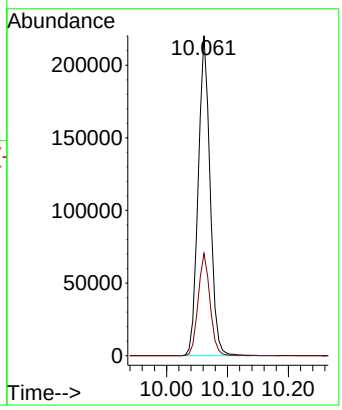


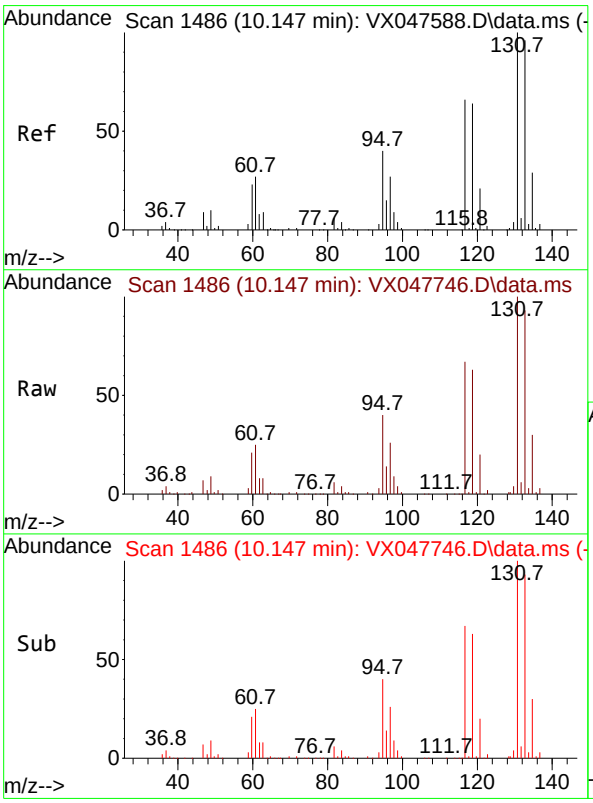
#65
Chlorobenzene
Concen: 51.885 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 297945

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.1	37.7

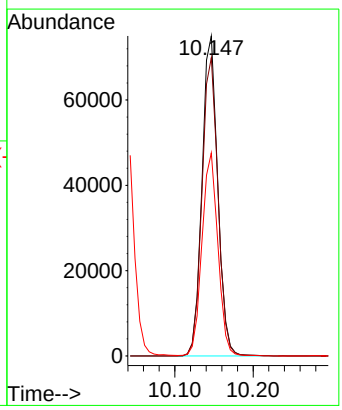


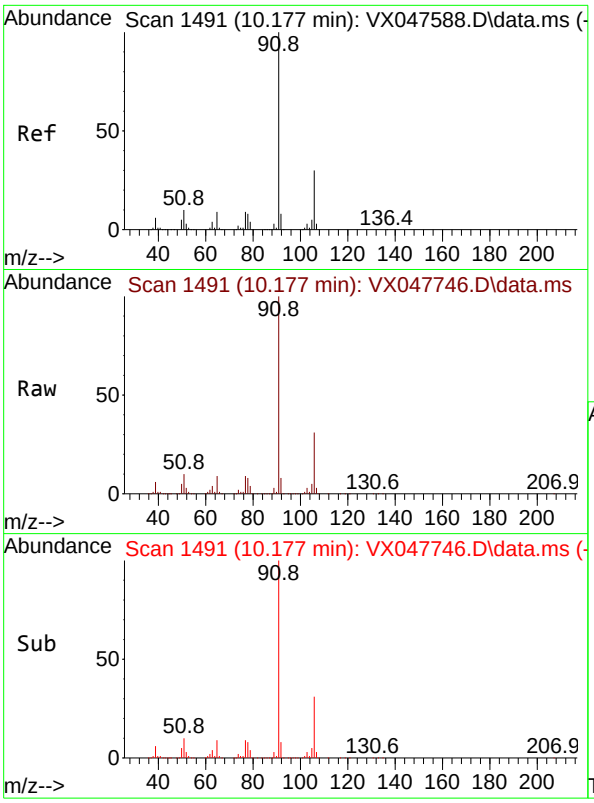


#66
1,1,1,2-Tetrachloroethane
Concen: 52.679 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:131 Resp: 104386

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	142.0
119	64.4	32.0	96.0



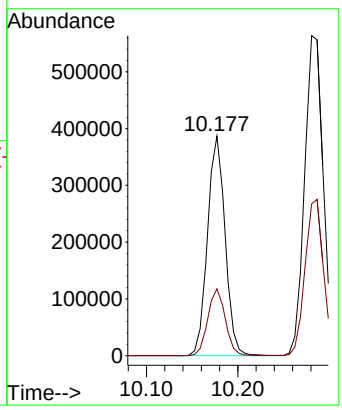


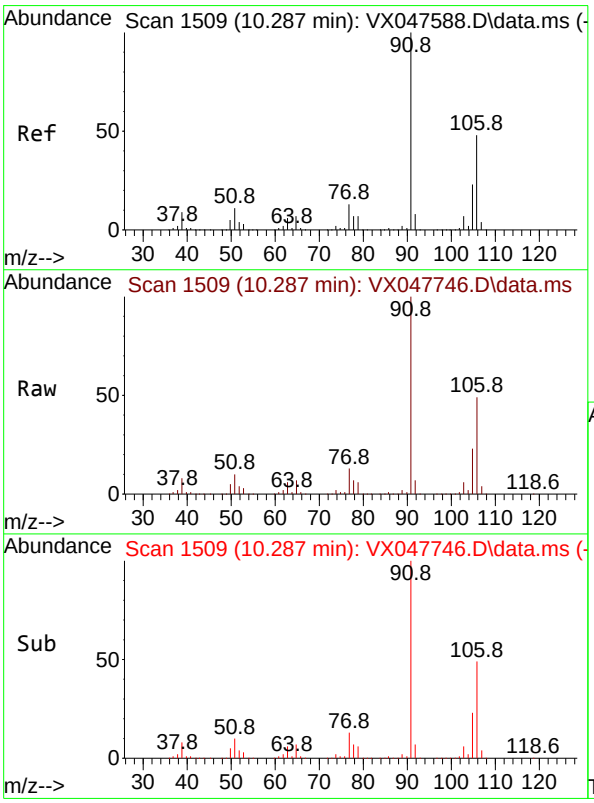
#67
Ethyl Benzene
Concen: 52.120 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 516414

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5

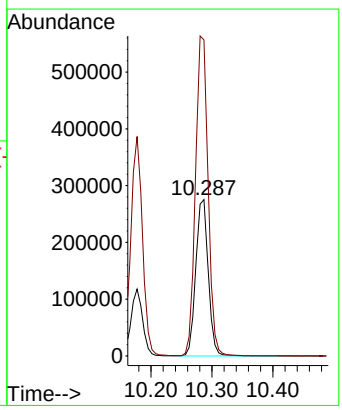


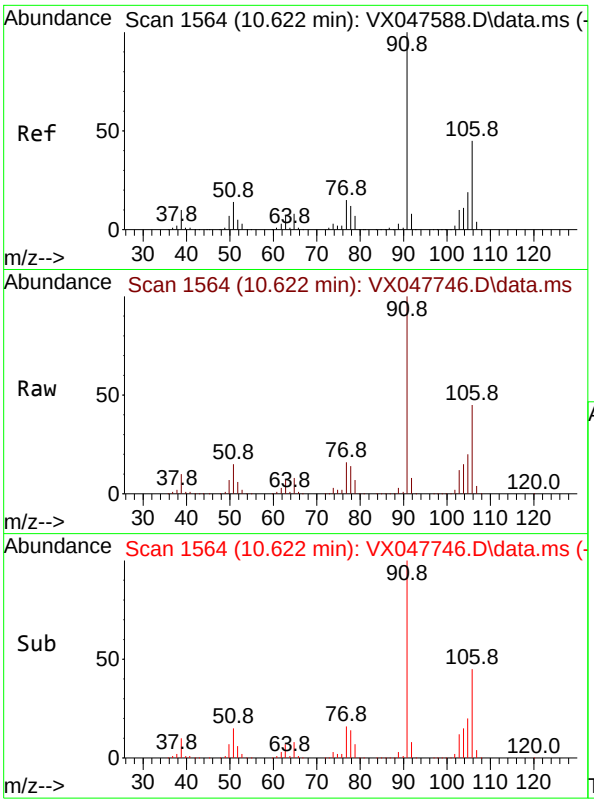


#68
m/p-Xylenes
Concen: 106.017 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:106 Resp: 390979

Ion	Ratio	Lower	Upper
106	100		
91	206.2	167.8	251.8



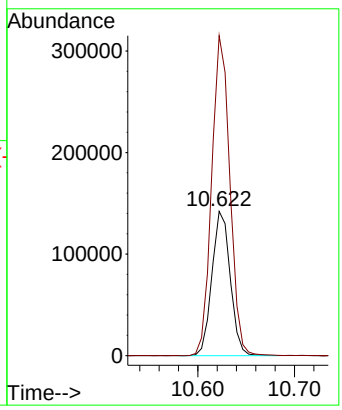


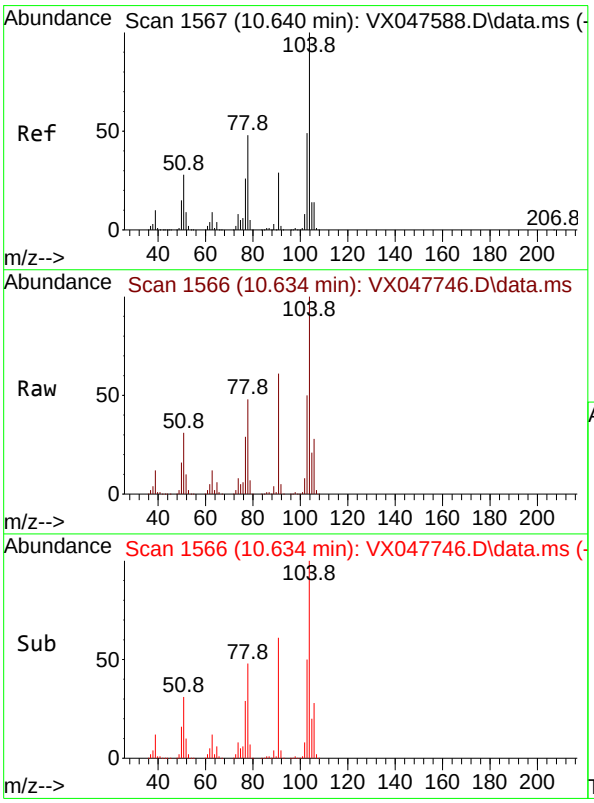
#69
o-Xylene
Concen: 52.481 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 187203

Ion	Ratio	Lower	Upper
106	100		
91	220.0	111.1	333.4

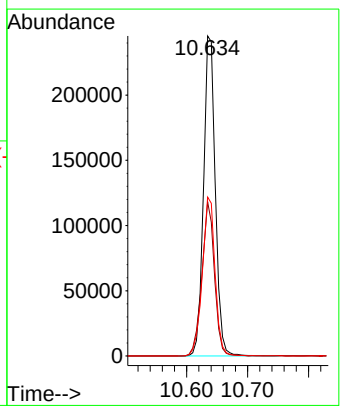


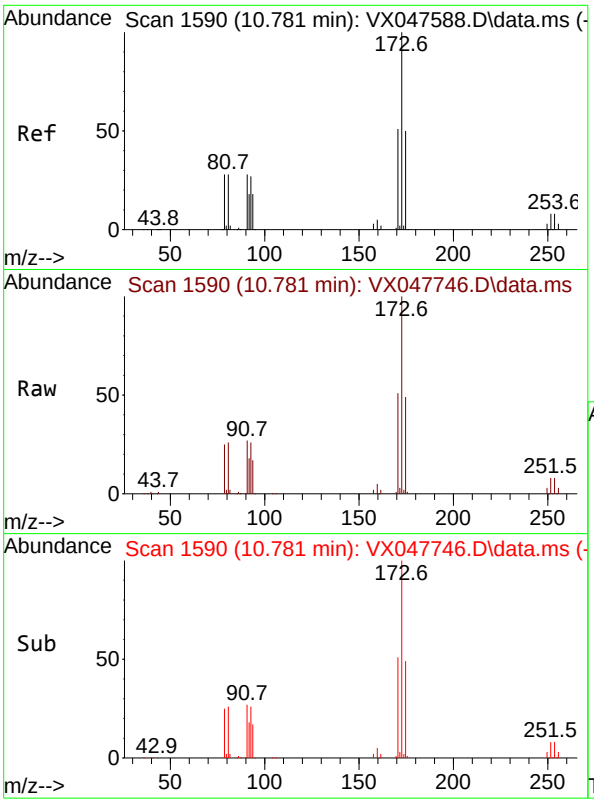


#70
Styrene
Concen: 52.908 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:104 Resp: 330686

Ion	Ratio	Lower	Upper
104	100		
78	51.2	43.1	64.7
103	53.7	43.1	64.7



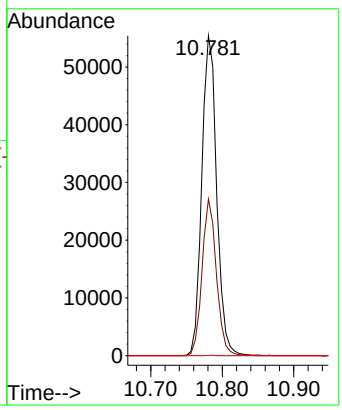


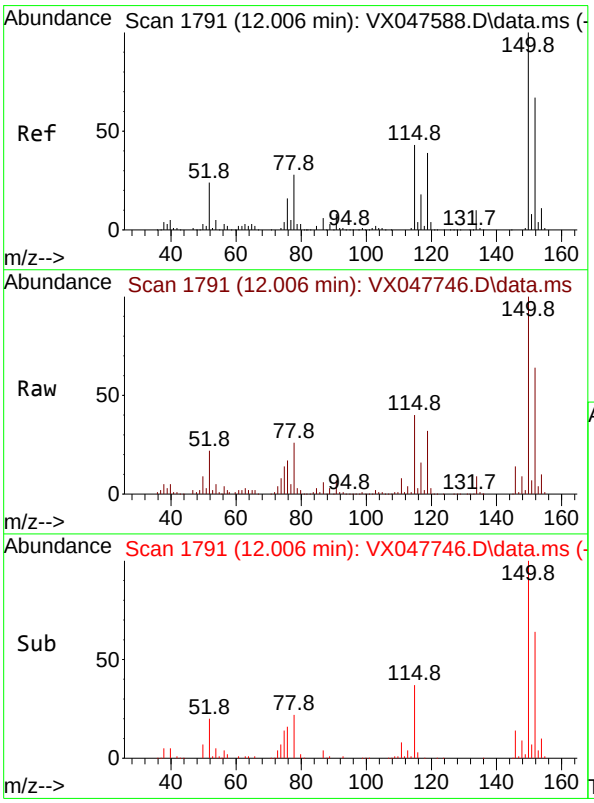
#71
Bromoform
Concen: 54.161 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 80138

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.9	74.6
254	0.1	0.1	0.1#

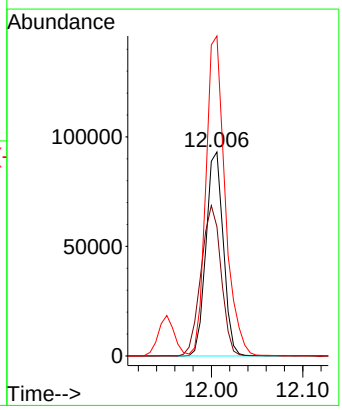


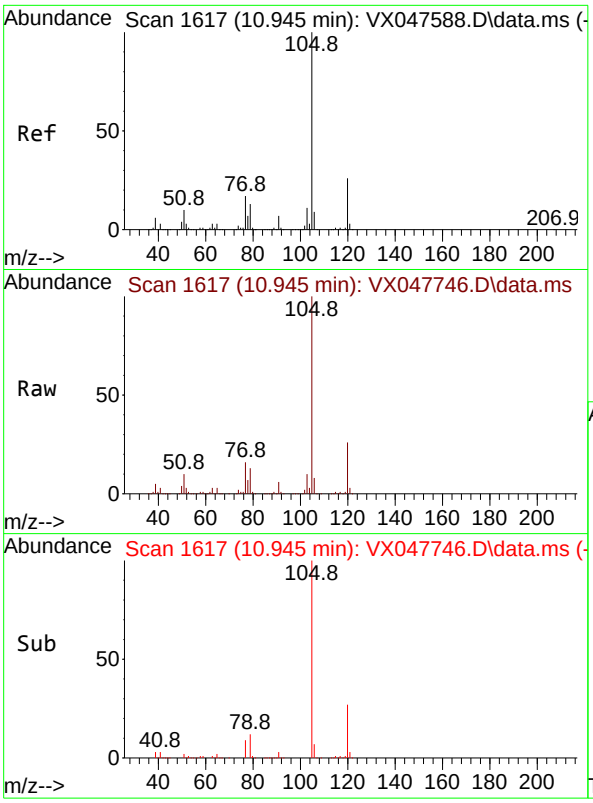


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:152 Resp: 121948

Ion	Ratio	Lower	Upper
152	100		
115	86.0	44.9	134.5
150	173.9	0.0	352.0



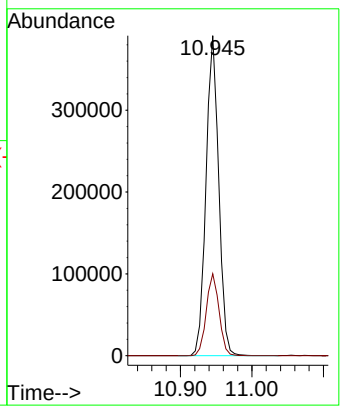


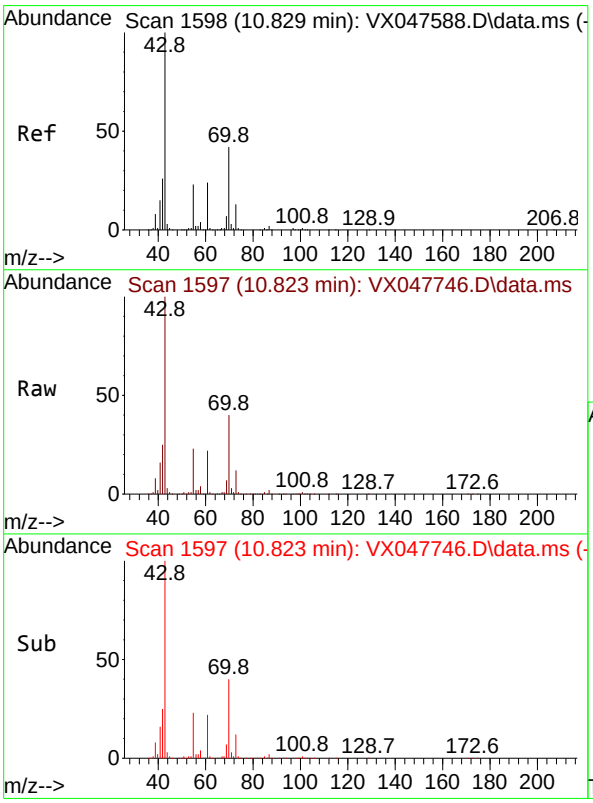
#73
Isopropylbenzene
Concen: 51.938 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 481526

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

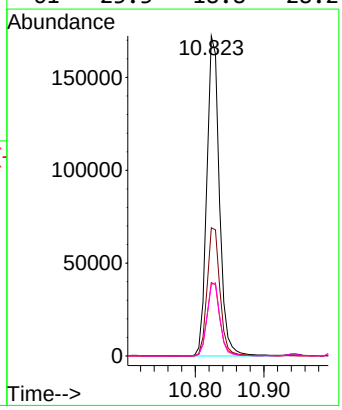


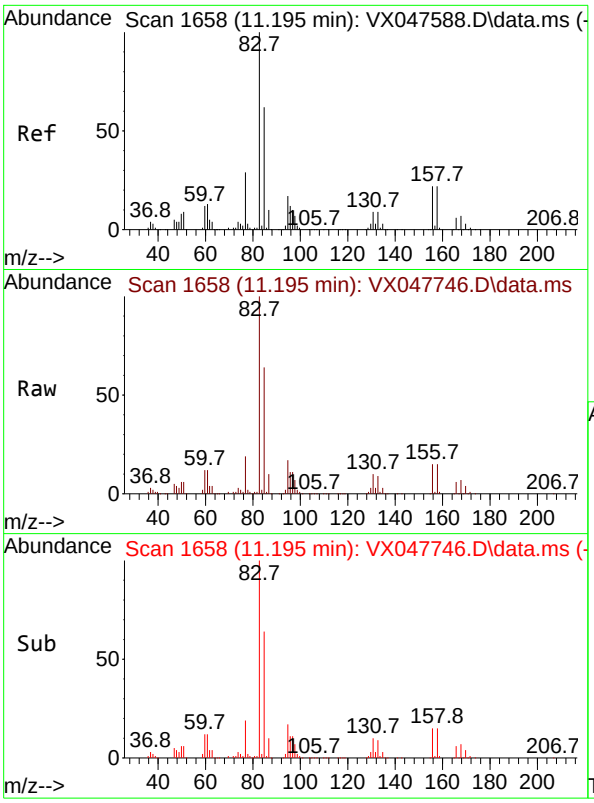


#74
N-amyl acetate
Concen: 52.312 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 43 Resp: 221168

Ion	Ratio	Lower	Upper
43	100		
70	40.9	32.0	48.0
55	23.6	18.9	28.3
61	23.3	18.8	28.2



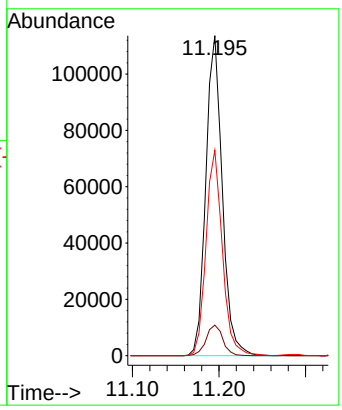


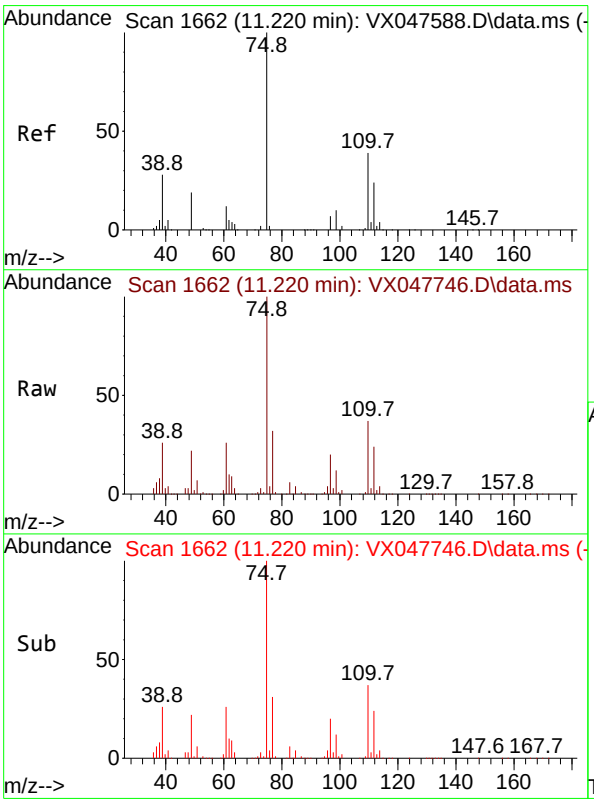
#75
1,1,2,2-Tetrachloroethane
Concen: 53.400 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 149789

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	64.0	31.6	95.0

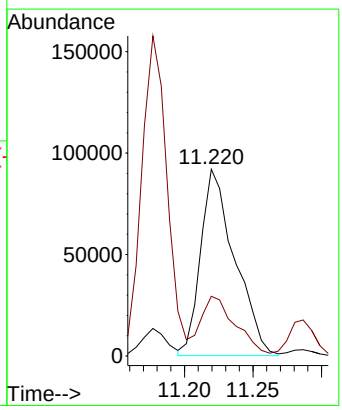


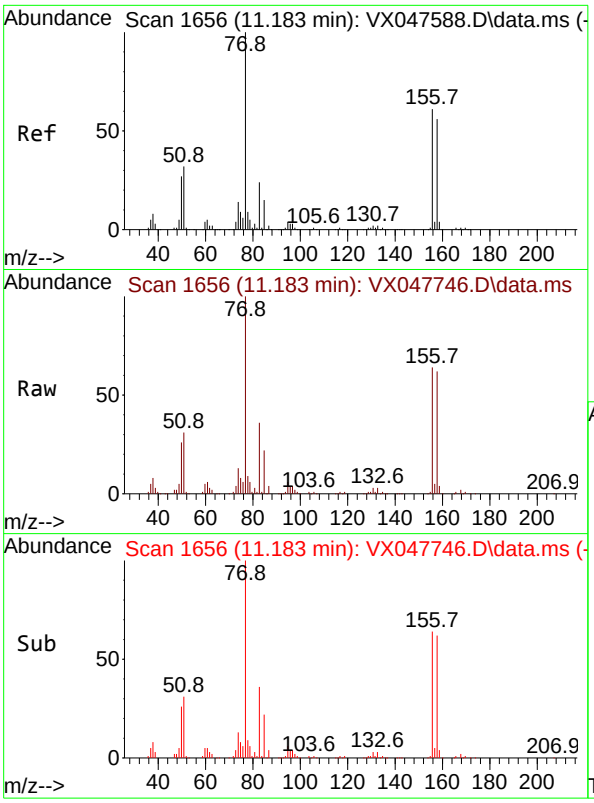


#76
1,2,3-Trichloropropane
Concen: 64.854 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 160130

Ion	Ratio	Lower	Upper
75	100		
77	32.8	18.8	56.4



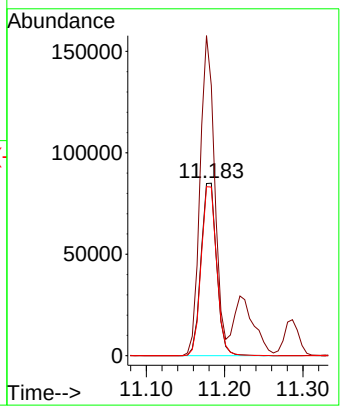


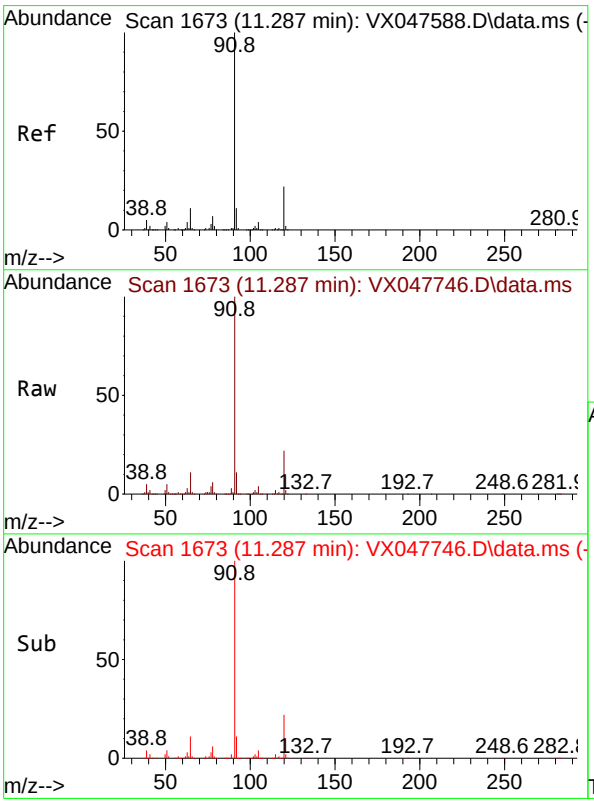
#77
Bromobenzene
Concen: 51.110 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 116706

Ion	Ratio	Lower	Upper
156	100		
77	174.8	89.7	269.1
158	98.2	47.9	143.6

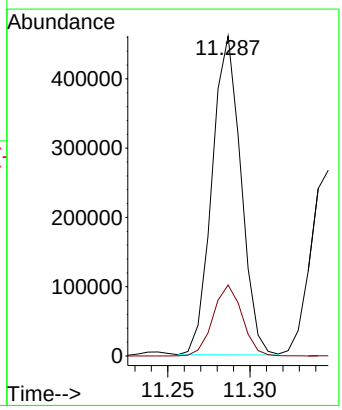


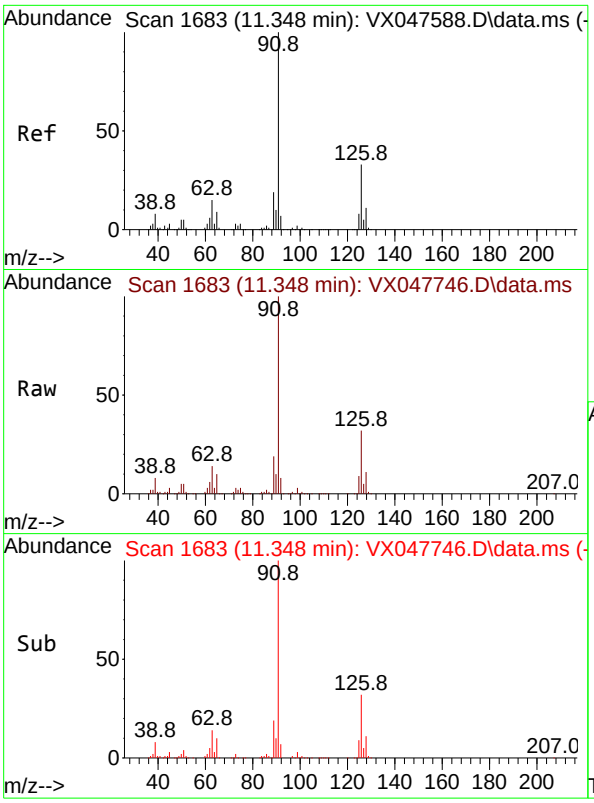


#78
n-propylbenzene
Concen: 51.387 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 563194

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1



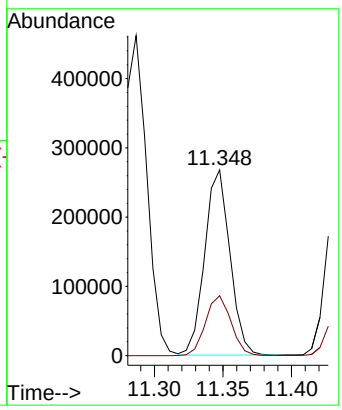


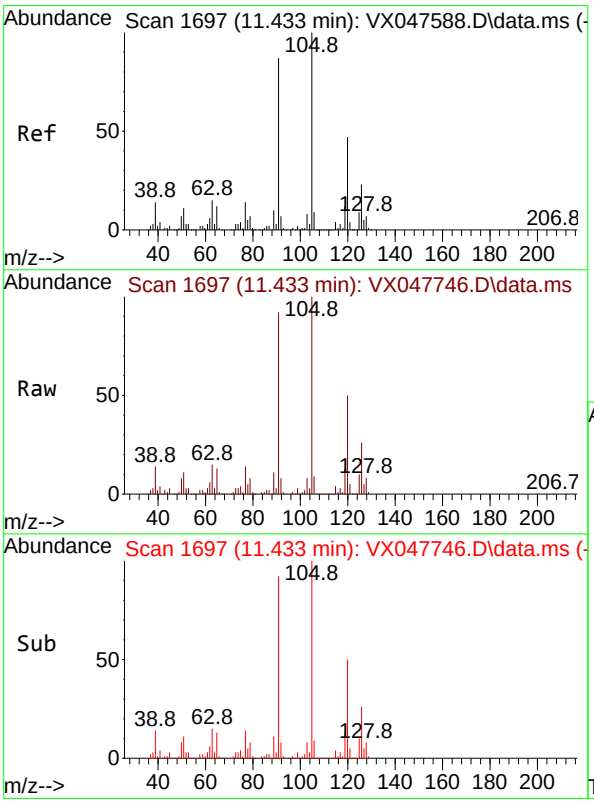
#79
2-Chlorotoluene
Concen: 50.938 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 341925

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3

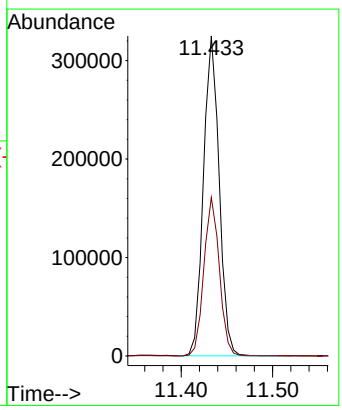


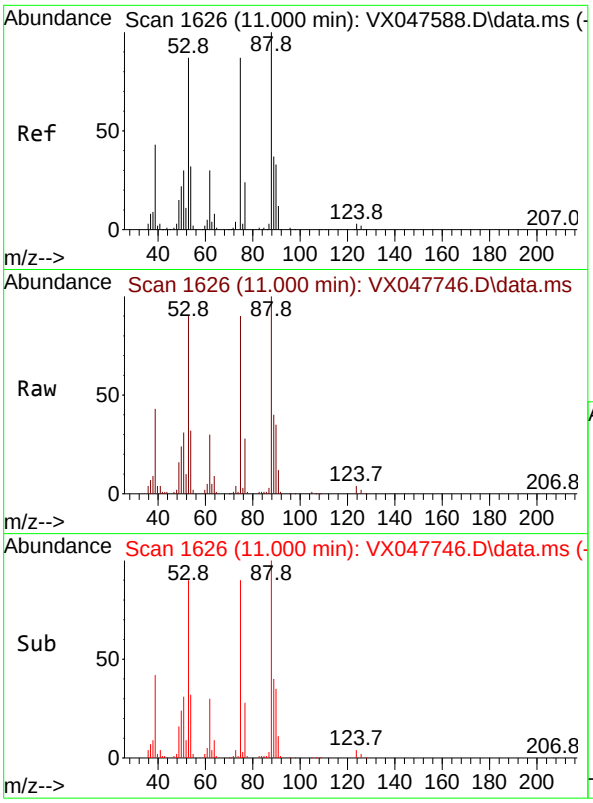


#80
1,3,5-Trimethylbenzene
Concen: 50.669 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 385950

Ion	Ratio	Lower	Upper
105	100		
120	49.0	23.6	70.8



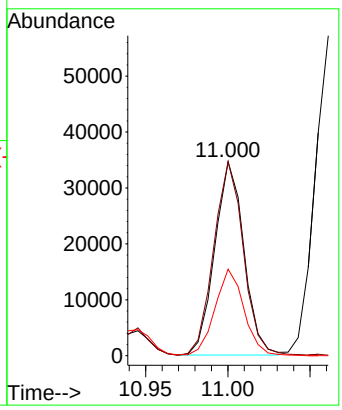


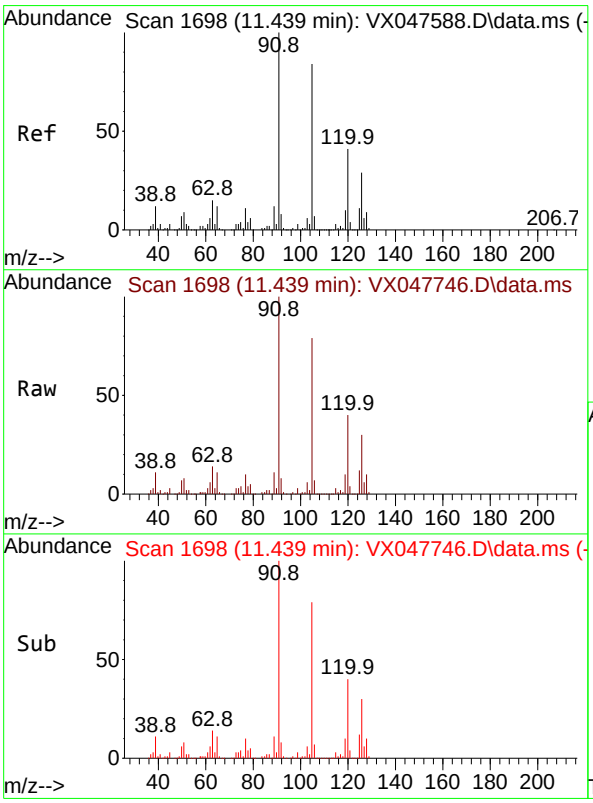
#81
trans-1,4-Dichloro-2-butene
Concen: 44.142 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 42739

Ion	Ratio	Lower	Upper
75	100		
53	101.7	83.4	125.2
89	44.8	36.3	54.5

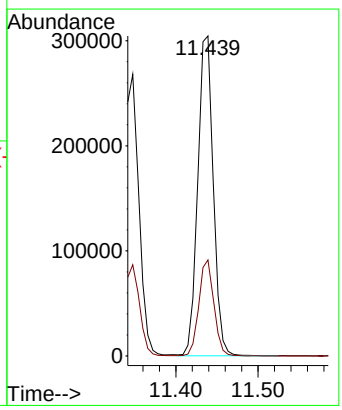


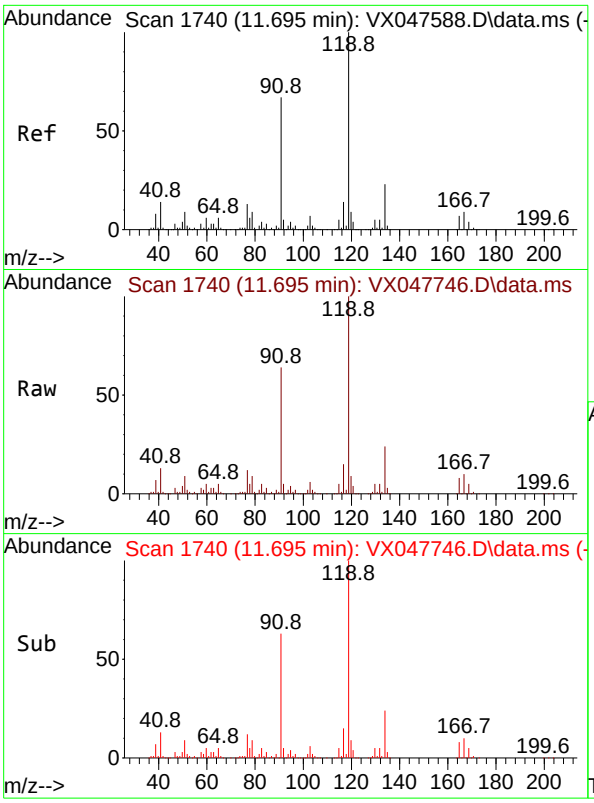


#82
4-Chlorotoluene
Concen: 50.313 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 91 Resp: 398881

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6



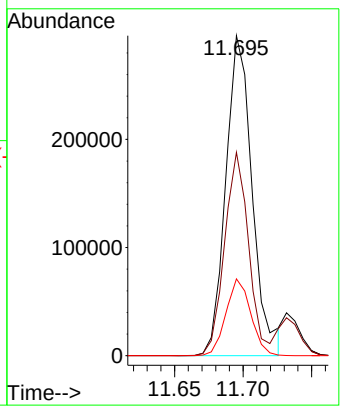


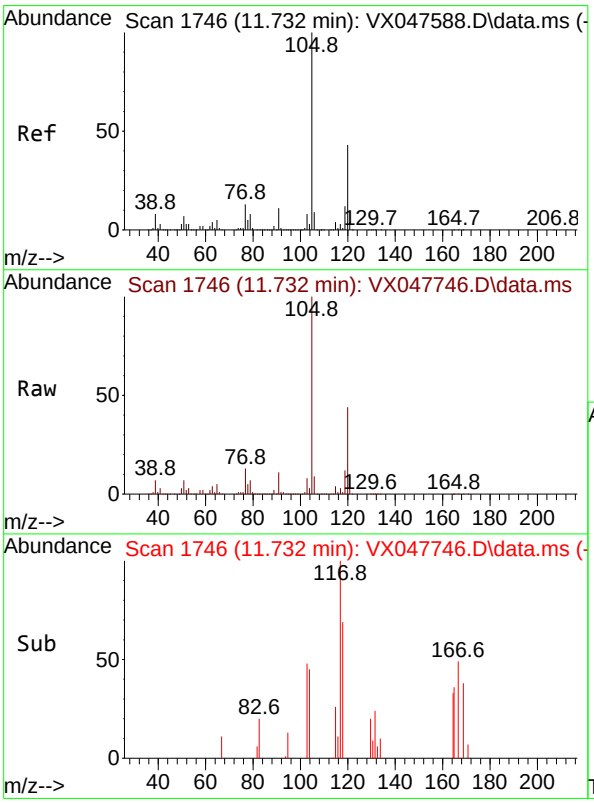
#83
tert-Butylbenzene
Concen: 50.936 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 397171

Ion	Ratio	Lower	Upper
119	100		
91	57.9	29.6	88.8
134	22.6	11.0	33.0

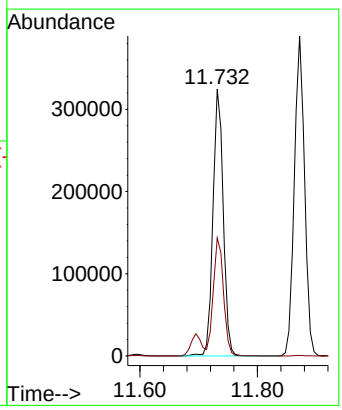


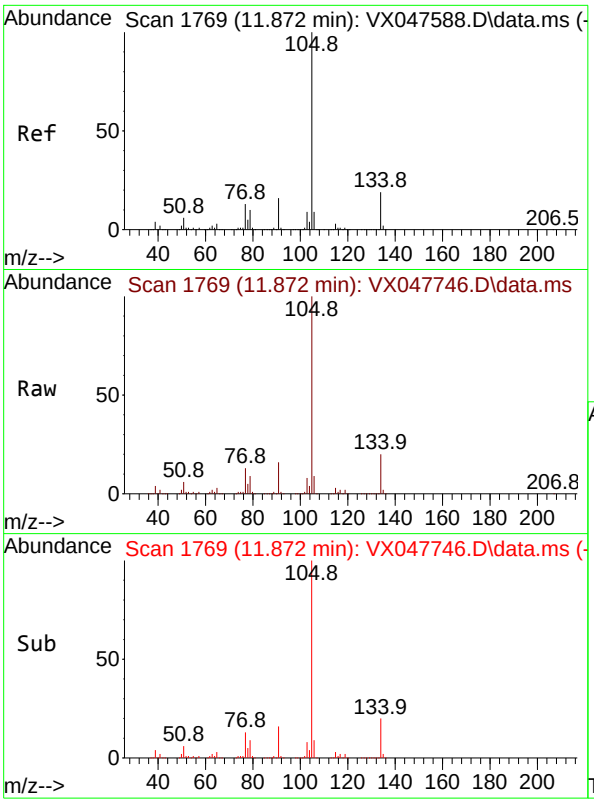


#84
1,2,4-Trimethylbenzene
Concen: 51.085 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:105 Resp: 394508

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.1	66.1



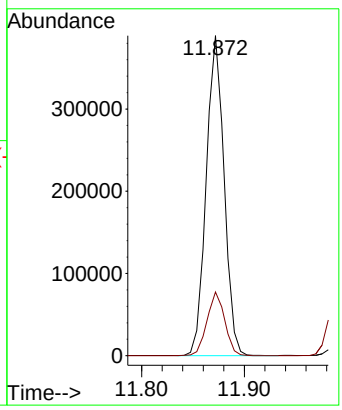


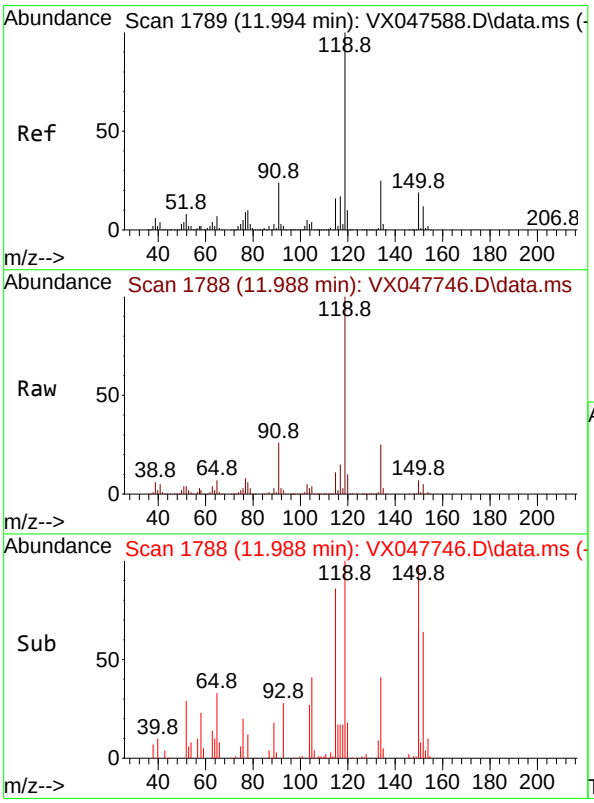
#85
sec-Butylbenzene
Concen: 50.945 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 471850

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

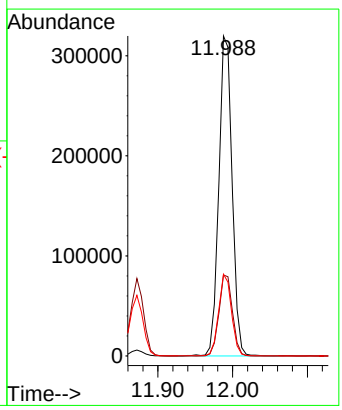


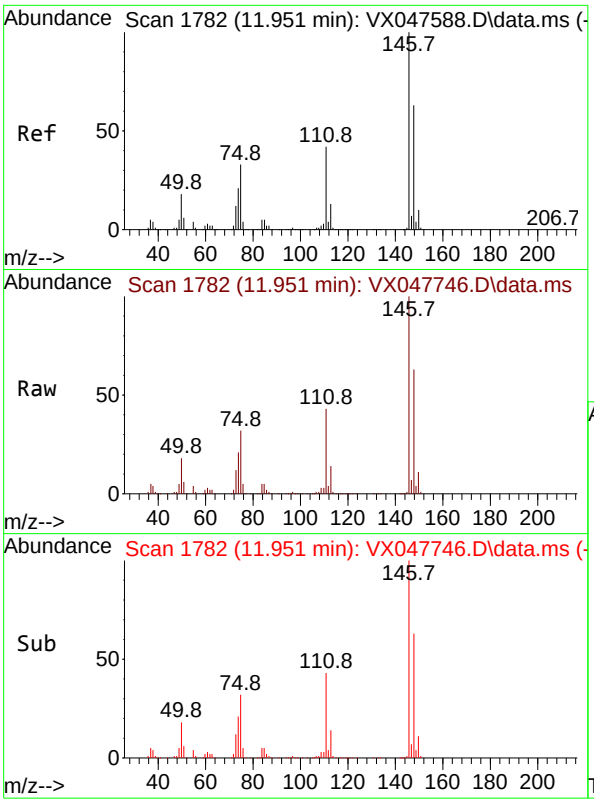


#86
p-Isopropyltoluene
Concen: 50.687 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:119 Resp: 397440

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	24.8	12.6	37.6



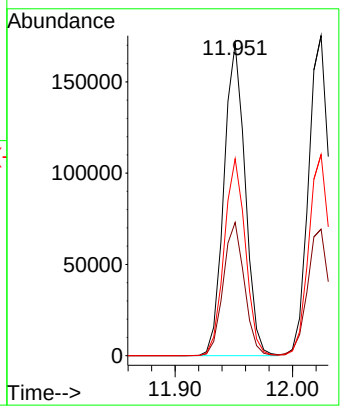


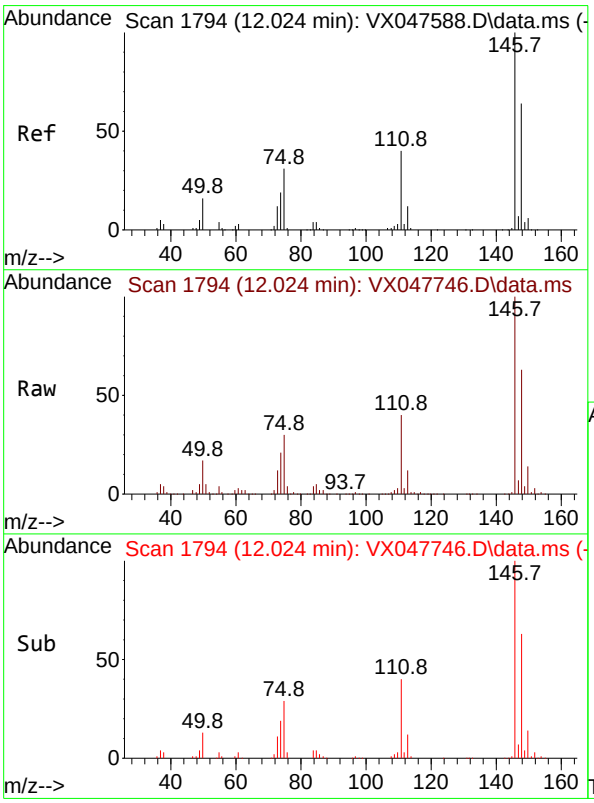
#87
1,3-Dichlorobenzene
Concen: 50.618 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 214686

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	63.2	32.0	96.0

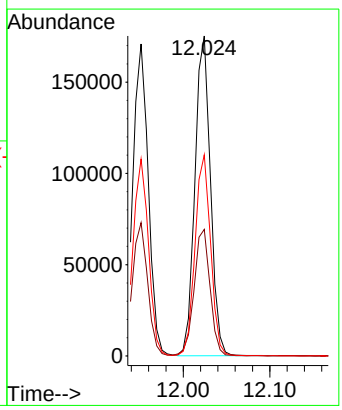


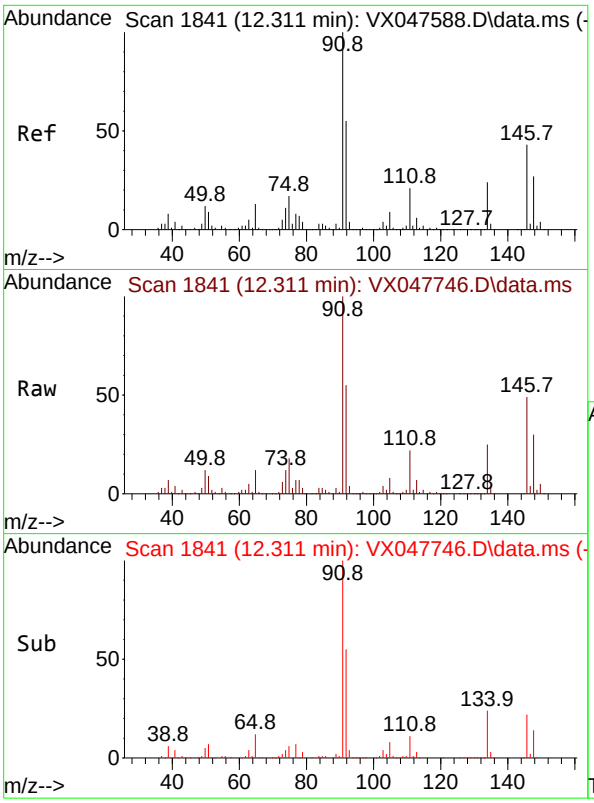


#88
1,4-Dichlorobenzene
Concen: 50.100 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:146 Resp: 218086

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.8	62.4
148	63.3	31.7	95.1



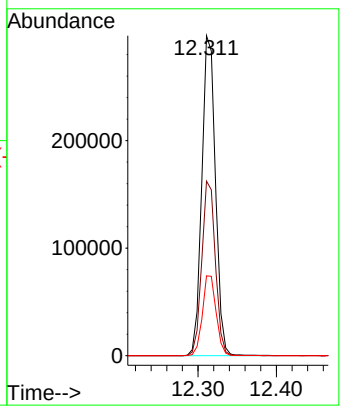


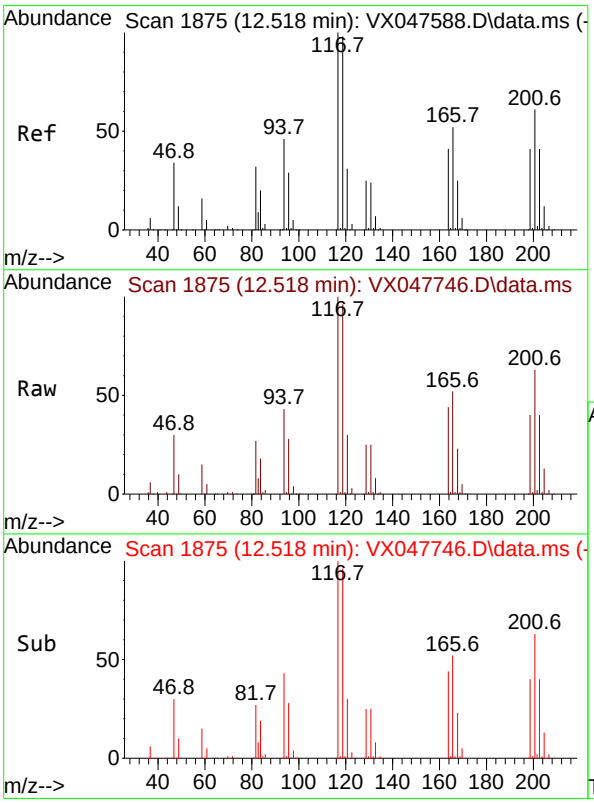
#89
n-Butylbenzene
Concen: 49.578 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 359706

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.1	12.6	37.8

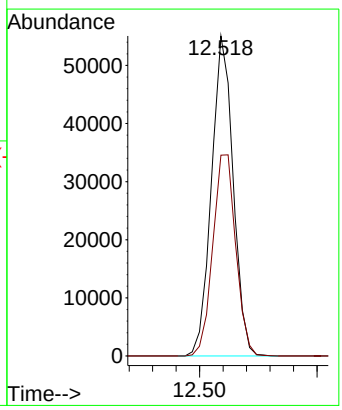


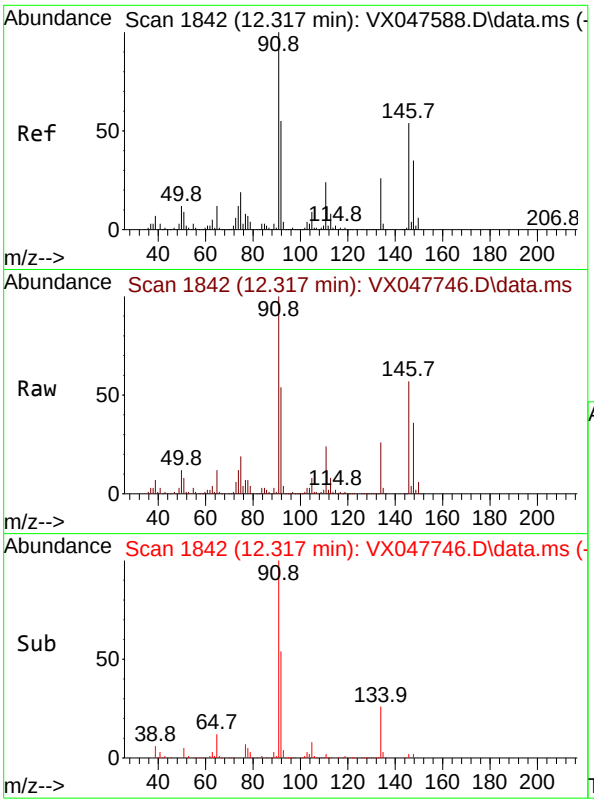


#90
Hexachloroethane
Concen: 51.284 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:117 Resp: 70601

Ion	Ratio	Lower	Upper
117	100		
201	66.7	34.2	102.5



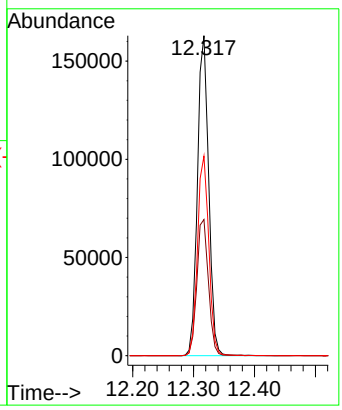


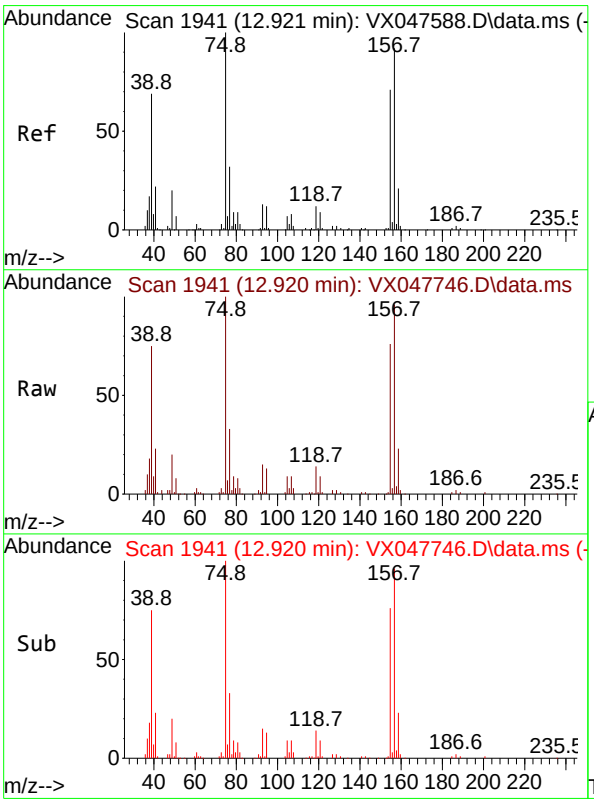
#91
1,2-Dichlorobenzene
Concen: 51.499 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 208091

Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.2	66.6
148	62.8	31.8	95.4

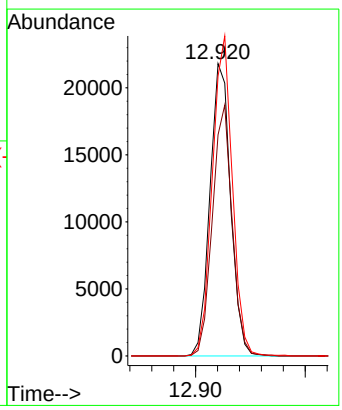


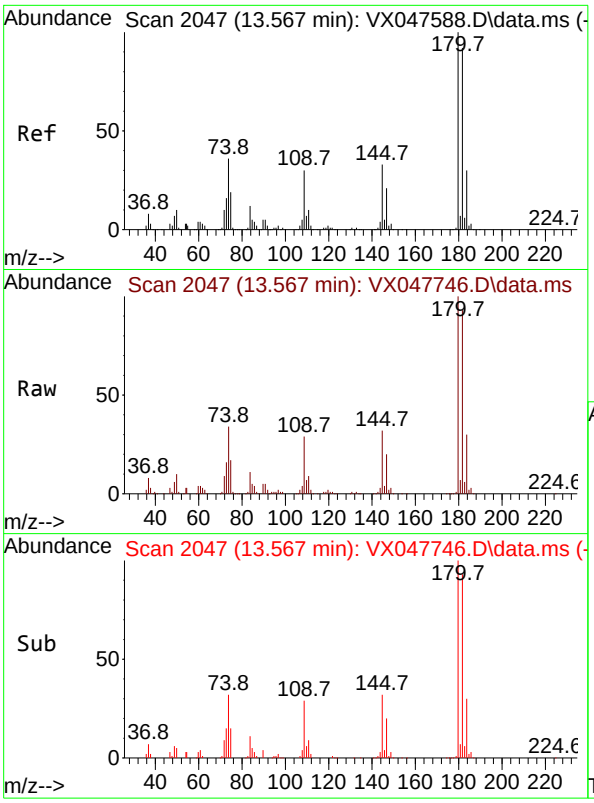


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.279 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion: 75 Resp: 28554

Ion	Ratio	Lower	Upper
75	100		
155	82.0	37.7	113.1
157	106.4	49.8	149.4



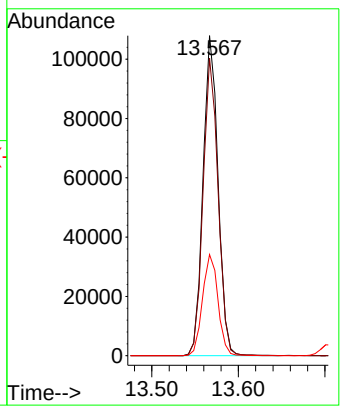


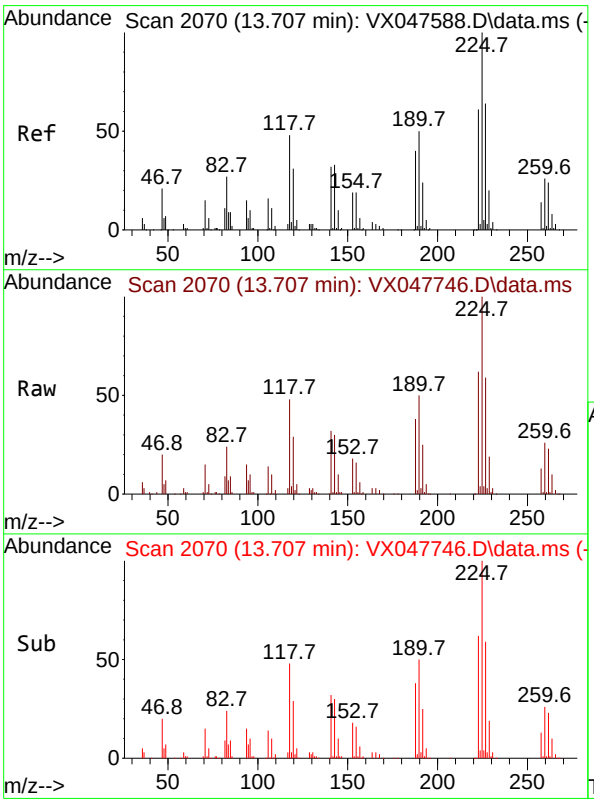
#93
1,2,4-Trichlorobenzene
Concen: 49.444 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 129844

Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.6	139.8
145	32.6	16.4	49.1

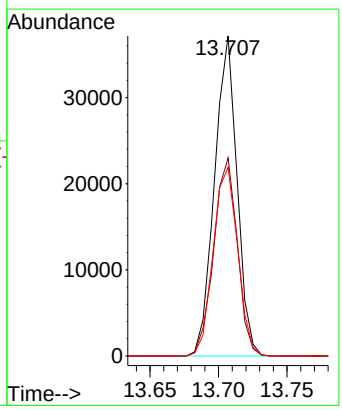


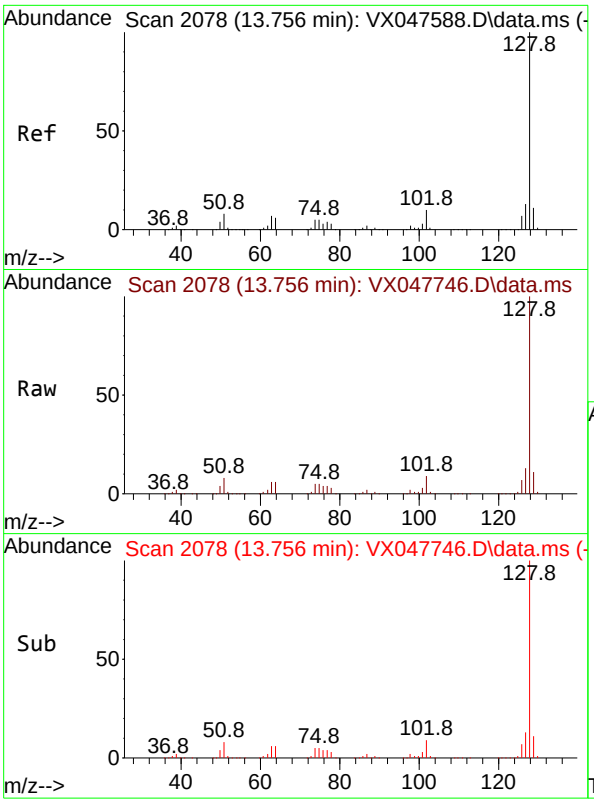


#94
Hexachlorobutadiene
Concen: 47.621 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:225 Resp: 42478

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.7	95.1
227	64.0	32.0	96.0



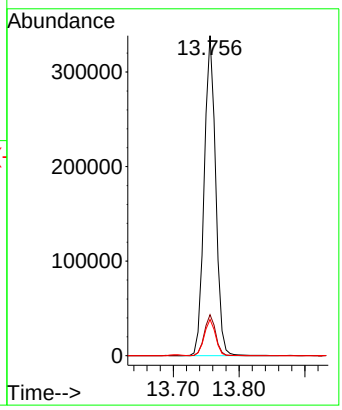


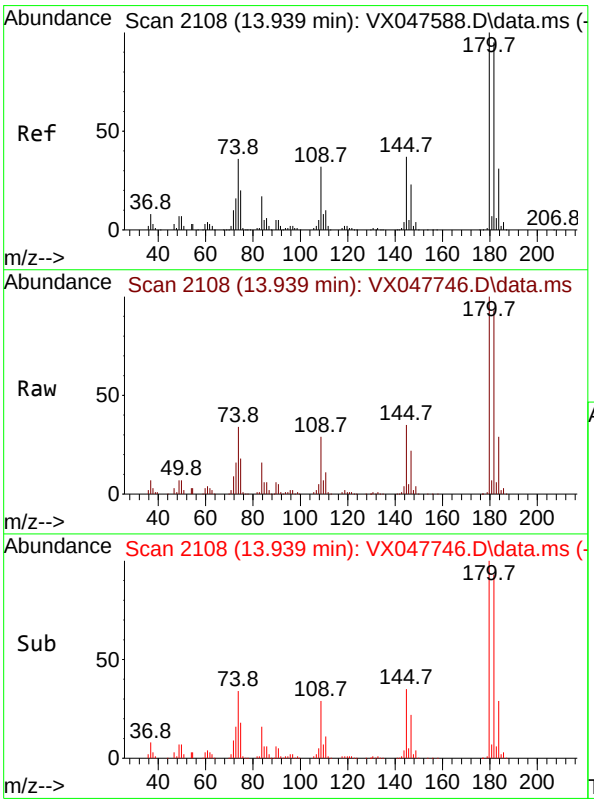
#95
Naphthalene
Concen: 51.297 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 410203

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.1	8.8	13.2

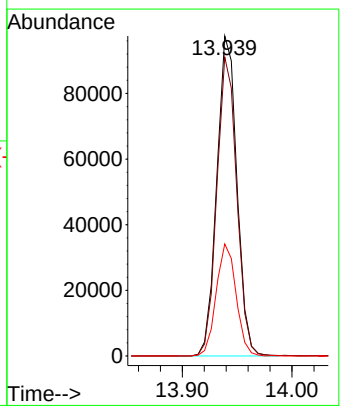




#96
1,2,3-Trichlorobenzene
Concen: 50.895 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047746.D
Acq: 24 Sep 2025 02:08

Tgt Ion:180 Resp: 124328

Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.6	142.8
145	34.6	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	156932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	284011	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	123765	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	122385	48.994	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 97.980%			
35) Dibromofluoromethane	5.373	113	96590	50.711	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.420%			
50) Toluene-d8	8.635	98	333541	50.607	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.220%			
62) 4-Bromofluorobenzene	11.061	95	127747	51.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	38327	23.585	ug/l	98
3) Chloromethane	1.301	50	46331	21.693	ug/l	95
4) Vinyl Chloride	1.380	62	46862	22.415	ug/l	97
5) Bromomethane	1.618	94	31202	23.536	ug/l	96
6) Chloroethane	1.697	64	29347	21.002	ug/l	95
7) Trichlorofluoromethane	1.898	101	64984	20.934	ug/l	98
8) Diethyl Ether	2.136	74	25934	20.423	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	38130	21.007	ug/l	100
10) Methyl Iodide	2.459	142	56731	20.040	ug/l	99
11) Tert butyl alcohol	2.941	59	29775	107.025	ug/l	100
12) 1,1-Dichloroethene	2.325	96	39463	21.165	ug/l	99
13) Acrolein	2.239	56	25496	99.449	ug/l	99
14) Allyl chloride	2.666	41	72907	18.949	ug/l	97
15) Acrylonitrile	3.056	53	116513	113.065	ug/l	99
16) Acetone	2.374	43	95237	87.685	ug/l	100
17) Carbon Disulfide	2.514	76	106524	20.869	ug/l	99
18) Methyl Acetate	2.703	43	54144	22.400	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	140115	20.586	ug/l	100
20) Methylene Chloride	2.788	84	47681	20.740	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	42881	21.362	ug/l	94
22) Diisopropyl ether	3.751	45	155798	20.894	ug/l #	82
23) Vinyl Acetate	3.715	43	617433	103.461	ug/l	100
24) 1,1-Dichloroethane	3.605	63	83274	21.012	ug/l	100
25) 2-Butanone	4.544	43	144925	106.972	ug/l	96
26) 2,2-Dichloropropane	4.471	77	42968	13.043	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	51366	20.894	ug/l	95
28) Bromochloromethane	4.891	49	33021	19.085	ug/l	100
29) Tetrahydrofuran	4.989	42	93114	114.248	ug/l	99
30) Chloroform	5.087	83	85486	21.345	ug/l	96
31) Cyclohexane	5.464	56	69116	20.939	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	71907	21.168	ug/l	99
36) 1,1-Dichloropropene	5.678	75	56214	20.197	ug/l	98
37) Ethyl Acetate	4.702	43	63237	21.220	ug/l	100
38) Carbon Tetrachloride	5.666	117	59490	19.672	ug/l	96
39) Methylcyclohexane	7.367	83	63625	20.138	ug/l	94
40) Benzene	6.025	78	176451	20.873	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	33379	21.696	ug/l		99
42) 1,2-Dichloroethane	6.074	62	65506	20.366	ug/l		98
43) Isopropyl Acetate	6.330	43	102233	20.917	ug/l		99
44) Trichloroethene	7.117	130	43438	21.254	ug/l		88
45) 1,2-Dichloropropane	7.415	63	45508	21.024	ug/l		97
46) Dibromomethane	7.568	93	32646	20.725	ug/l		97
47) Bromodichloromethane	7.806	83	67223	20.681	ug/l		99
48) Methyl methacrylate	7.678	41	49967	20.524	ug/l		97
49) 1,4-Dioxane	7.653	88	12395	503.790	ug/l		98
51) 4-Methyl-2-Pentanone	8.561	43	310191	114.468	ug/l		100
52) Toluene	8.702	92	109881	21.098	ug/l		100
53) t-1,3-Dichloropropene	8.964	75	62267	18.780	ug/l		99
54) cis-1,3-Dichloropropene	8.354	75	67811	19.135	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	43533	21.677	ug/l		98
56) Ethyl methacrylate	9.104	69	67219	21.313	ug/l		96
57) 1,3-Dichloropropane	9.293	76	74746	21.667	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	148860	105.735	ug/l		100
59) 2-Hexanone	9.415	43	217174	111.587	ug/l		99
60) Dibromochloromethane	9.506	129	48986	21.170	ug/l		99
61) 1,2-Dibromoethane	9.592	107	45047	22.022	ug/l		99
64) Tetrachloroethene	9.256	164	35498	21.442	ug/l		100
65) Chlorobenzene	10.061	112	119644	20.738	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.147	131	41811	21.001	ug/l		99
67) Ethyl Benzene	10.177	91	206630	20.757	ug/l		99
68) m/p-Xylenes	10.287	106	156597	42.264	ug/l		98
69) o-Xylene	10.622	106	75062	20.945	ug/l		99
70) Styrene	10.640	104	129679	20.651	ug/l		99
71) Bromoform	10.781	173	31001	20.854	ug/l	#	100
73) Isopropylbenzene	10.945	105	193342	20.548	ug/l		100
74) N-amyl acetate	10.829	43	88563	20.640	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	61446	21.584	ug/l		97
76) 1,2,3-Trichloropropane	11.220	75	66910	26.701	ug/l		90
77) Bromobenzene	11.183	156	48182	20.791	ug/l		97
78) n-propylbenzene	11.287	91	228489	20.542	ug/l		100
79) 2-Chlorotoluene	11.348	91	140664	20.647	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	160516	20.764	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	15843	16.123	ug/l		97
82) 4-Chlorotoluene	11.439	91	166032	20.635	ug/l		99
83) tert-Butylbenzene	11.695	119	160239	20.248	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	161967	20.665	ug/l		100
85) sec-Butylbenzene	11.872	105	196176	20.870	ug/l		99
86) p-Isopropyltoluene	11.994	119	161751	20.326	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	88665	20.598	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	90738	20.539	ug/l		99
89) n-Butylbenzene	12.311	91	148126	20.116	ug/l		98
90) Hexachloroethane	12.518	117	28222	20.199	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	84704	20.655	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	11756	20.397	ug/l		94
93) 1,2,4-Trichlorobenzene	13.567	180	52777	19.802	ug/l		99
94) Hexachlorobutadiene	13.707	225	18191	20.094	ug/l		98
95) Naphthalene	13.756	128	164732	20.298	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	51341	20.708	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

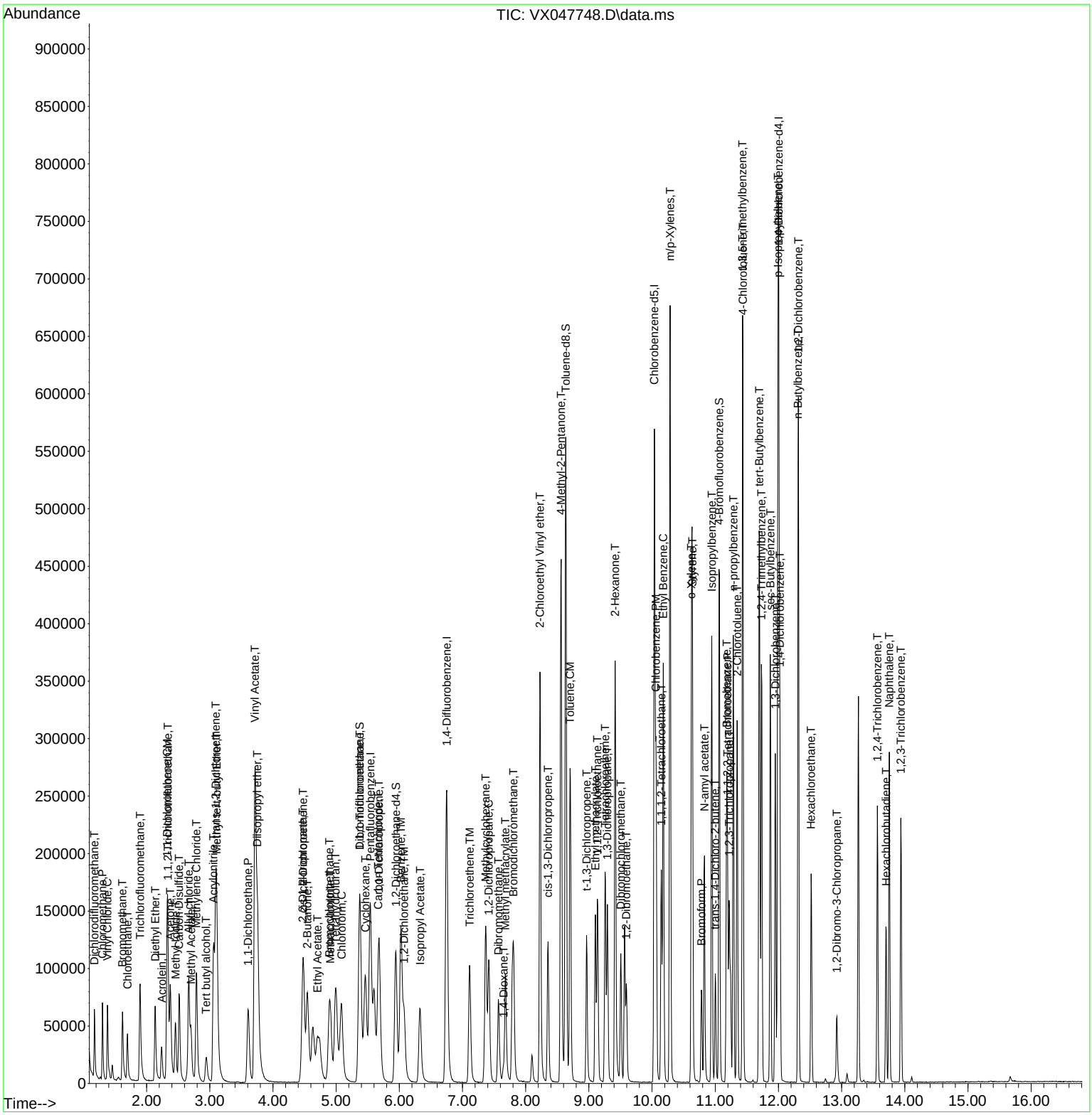
(#) = qualifier out of range (m) = manual integration (+) = signals summed

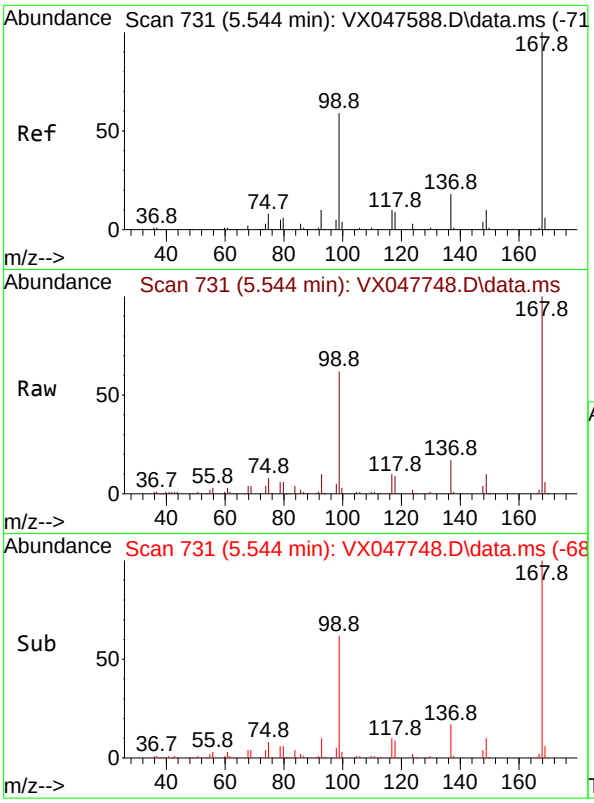
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047748.D
Acq On : 24 Sep 2025 03:53
Operator : JC/MD
Sample : VX0923WBS03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Quant Time: Sep 24 05:32:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



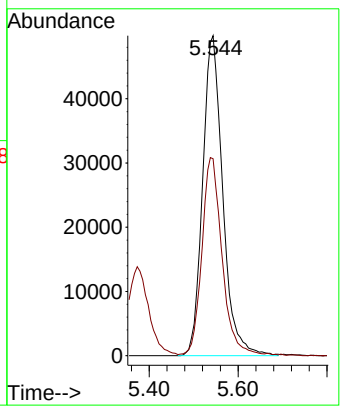


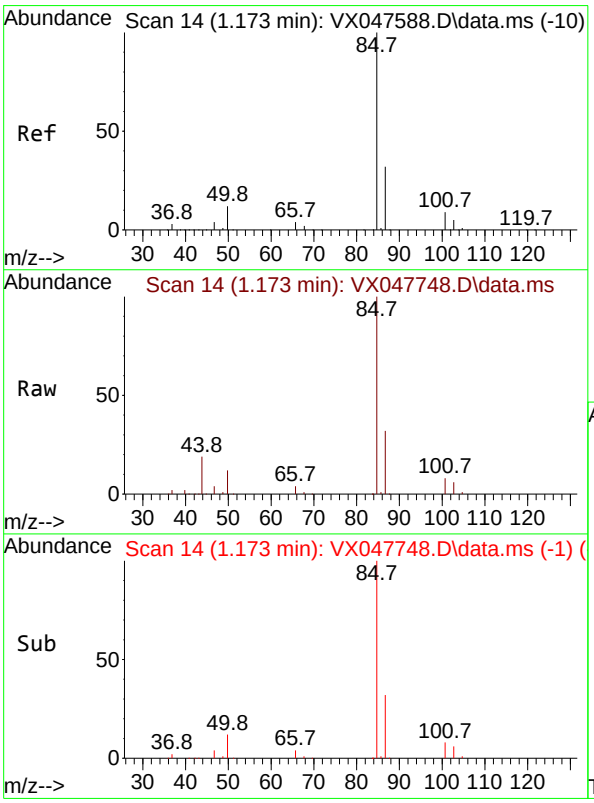
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:168 Resp: 156932

Ion	Ratio	Lower	Upper
168	100		
99	61.3	48.8	73.2

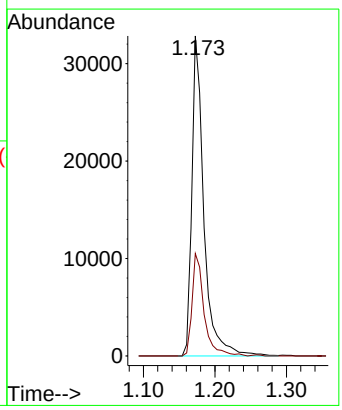


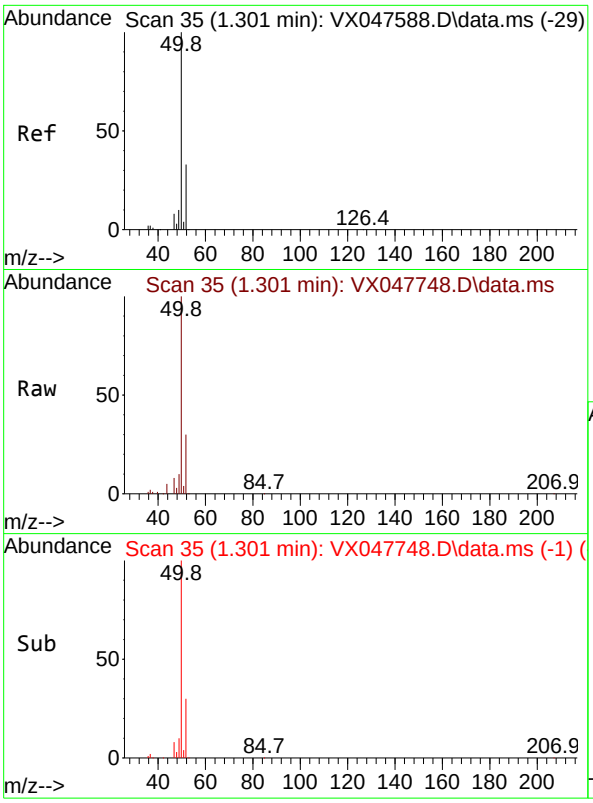


#2
Dichlorodifluoromethane
Concen: 23.585 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 85 Resp: 38327

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.8	47.3



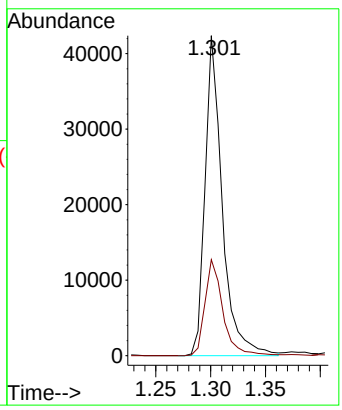


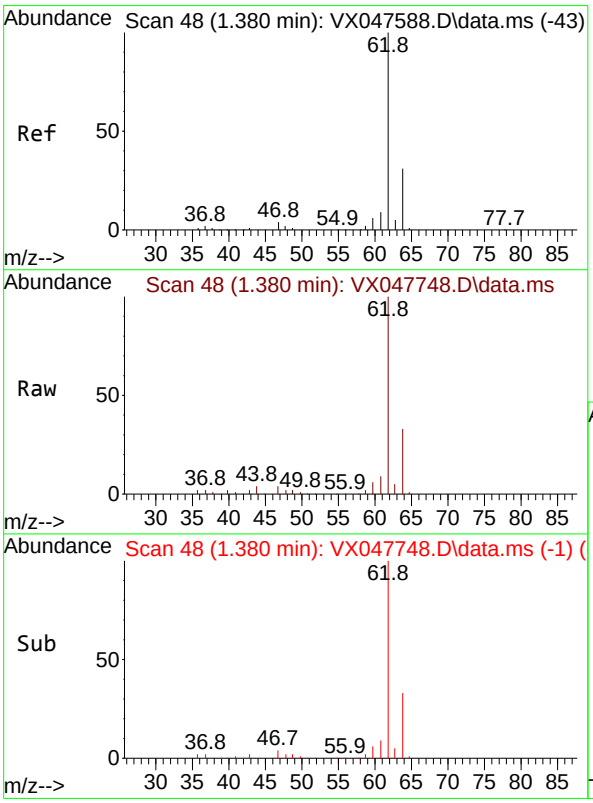
#3
Chloromethane
Concen: 21.693 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 50 Resp: 46331

Ion	Ratio	Lower	Upper
50	100		
52	30.0	26.1	39.1

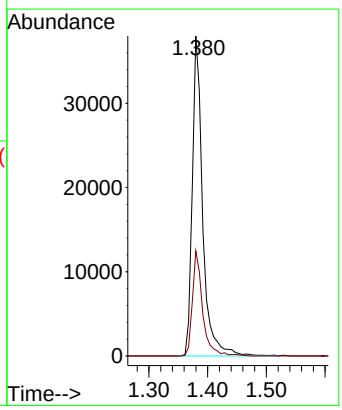


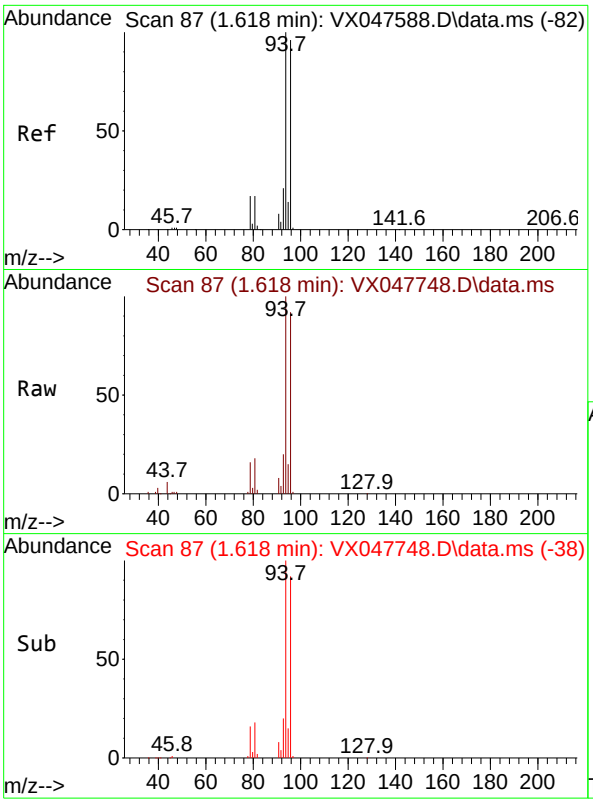


#4
Vinyl Chloride
Concen: 22.415 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 62 Resp: 46862

Ion	Ratio	Lower	Upper
62	100		
64	32.9	24.9	37.3



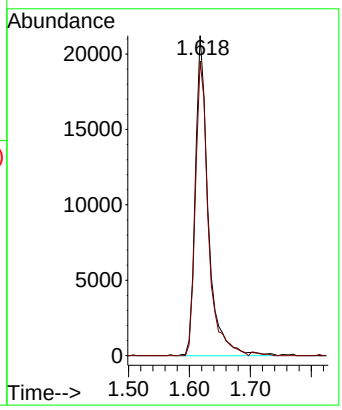


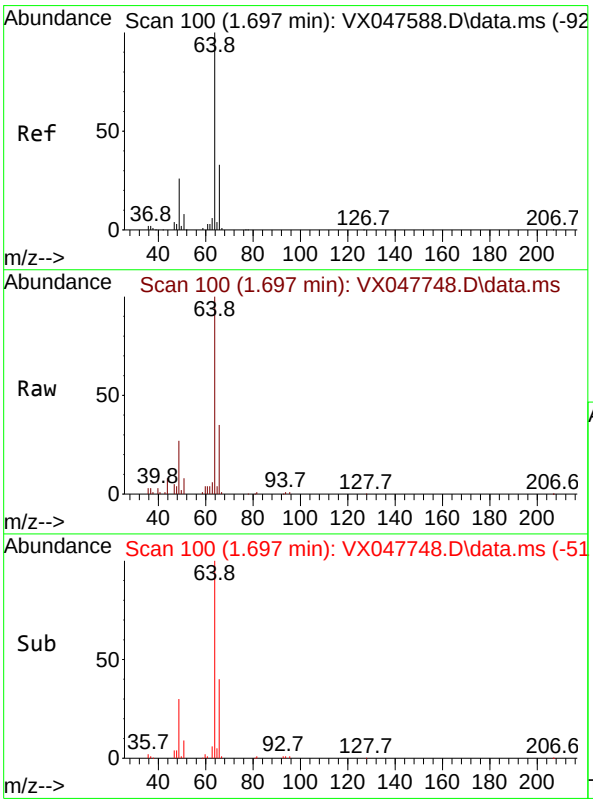
#5
Bromomethane
Concen: 23.536 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 94 Resp: 31202

Ion	Ratio	Lower	Upper
94	100		
96	92.0	76.6	115.0

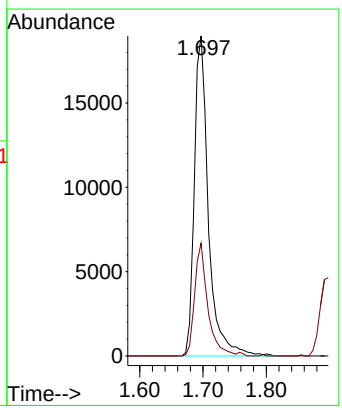


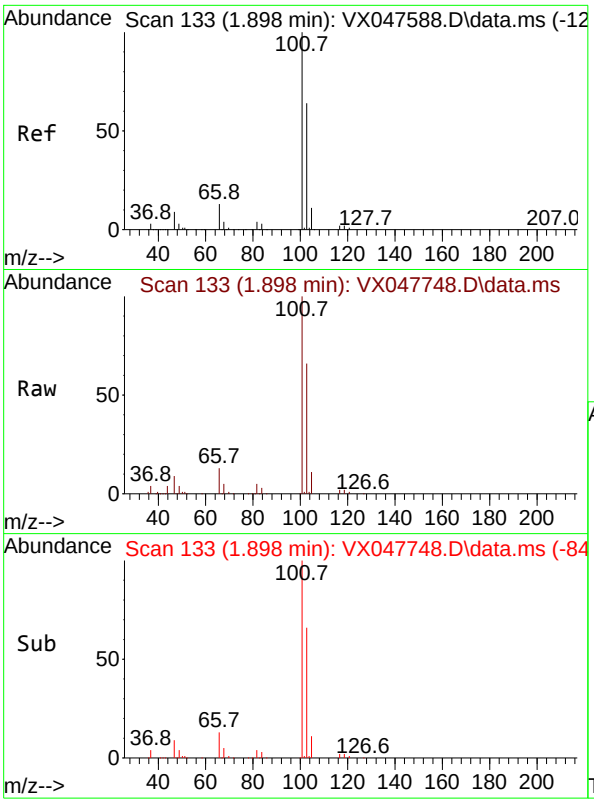


#6
Chloroethane
Concen: 21.002 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 64 Resp: 29347

Ion	Ratio	Lower	Upper
64	100		
66	35.2	26.1	39.1



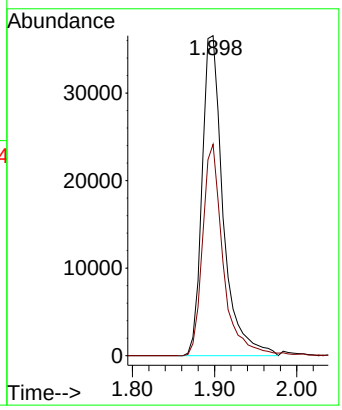


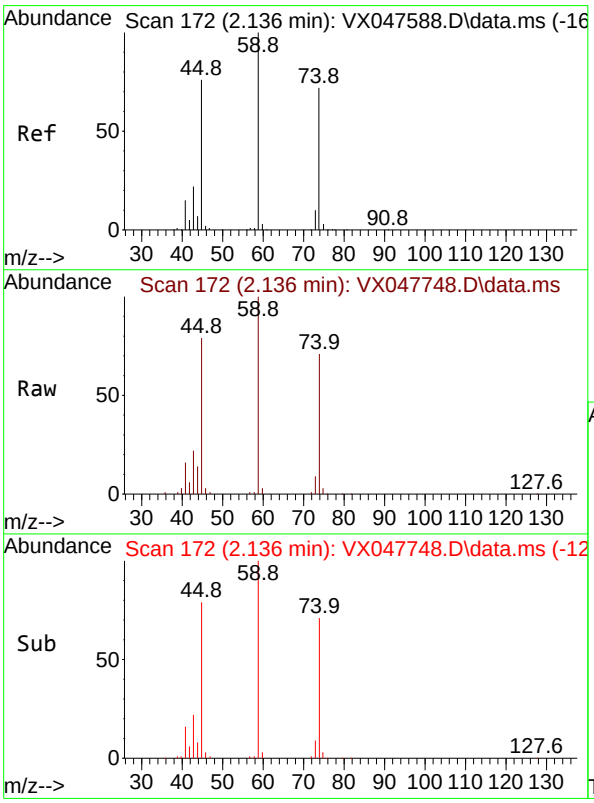
#7
Trichlorofluoromethane
Concen: 20.934 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:101 Resp: 64984

Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.4	77.2

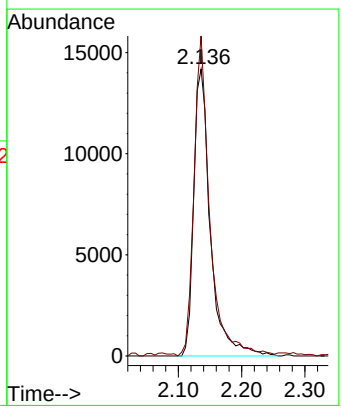


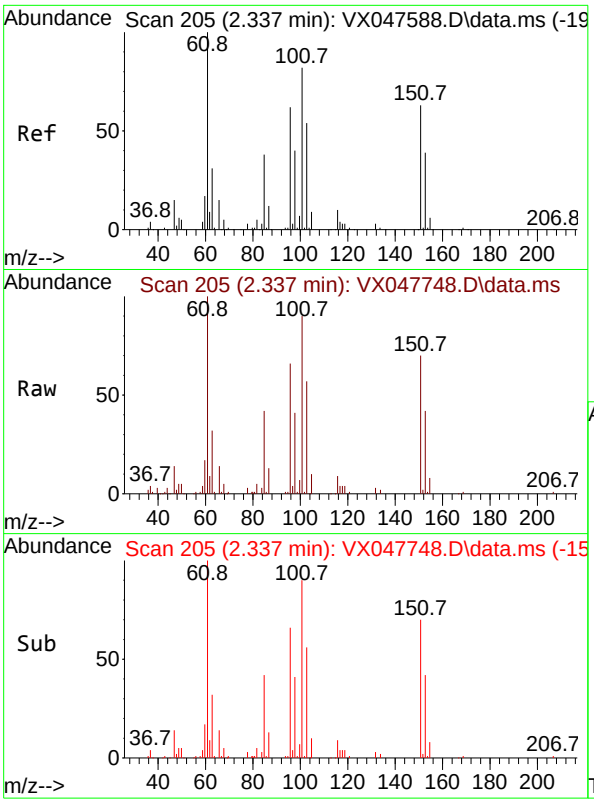


#8
Diethyl Ether
Concen: 20.423 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 74 Resp: 25934

Ion	Ratio	Lower	Upper
74	100		
45	106.7	52.3	156.8



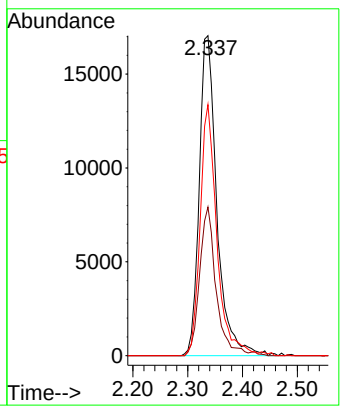


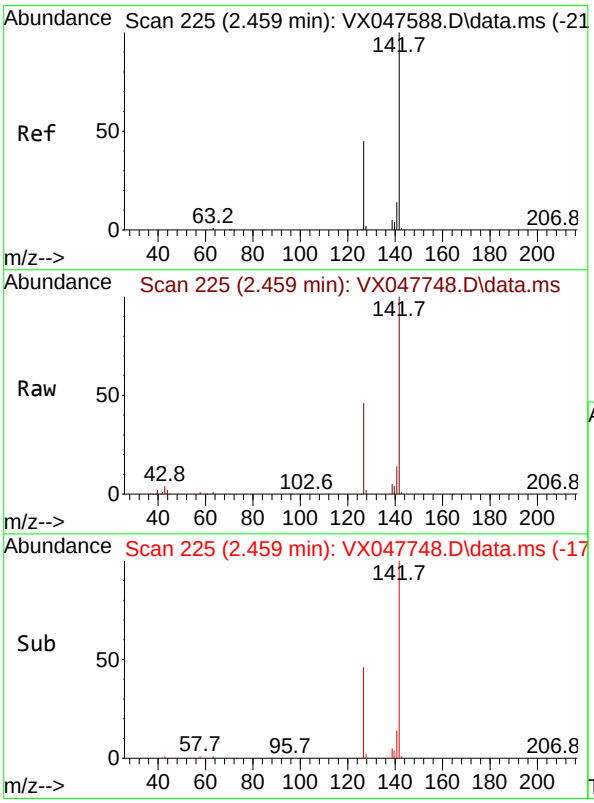
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.007 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:101 Resp: 38130

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.5	53.3
151	74.3	59.4	89.0

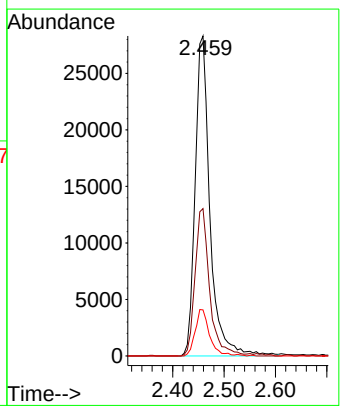


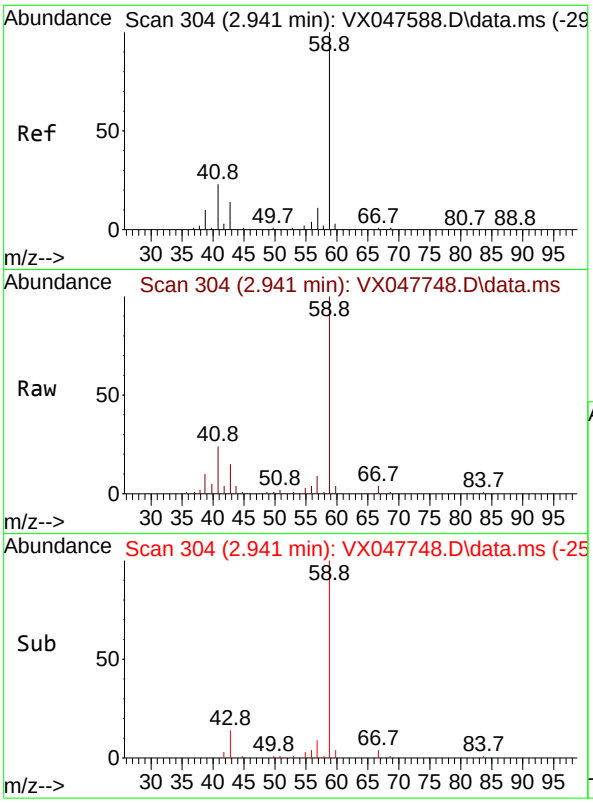


#10
Methyl Iodide
Concen: 20.040 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:142 Resp: 56731

Ion	Ratio	Lower	Upper
142	100		
127	45.4	37.2	55.8
141	13.9	11.4	17.0



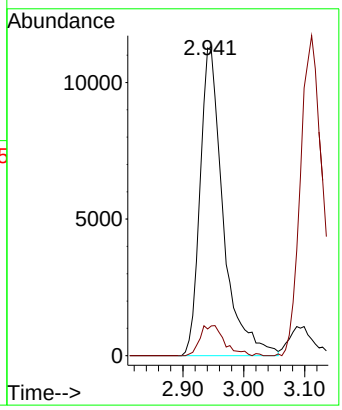


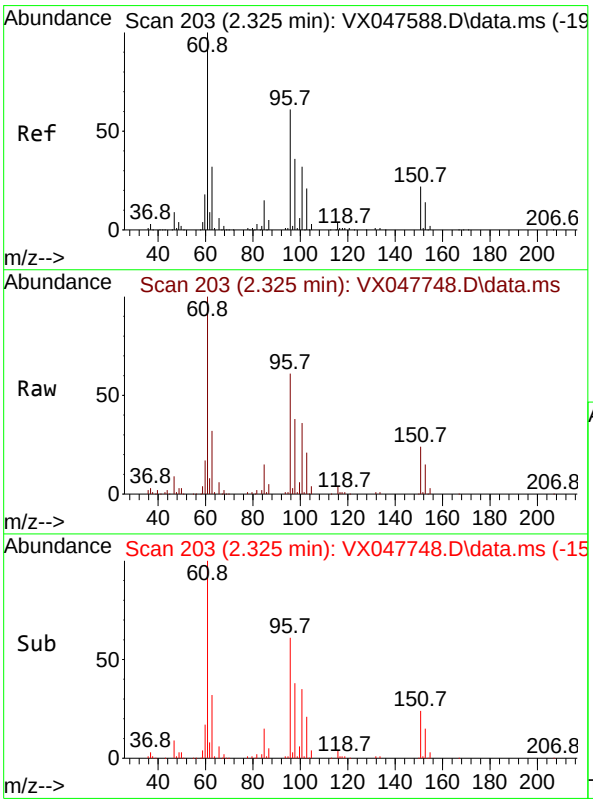
#11
Tert butyl alcohol
Concen: 107.025 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 59 Resp: 29775

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5

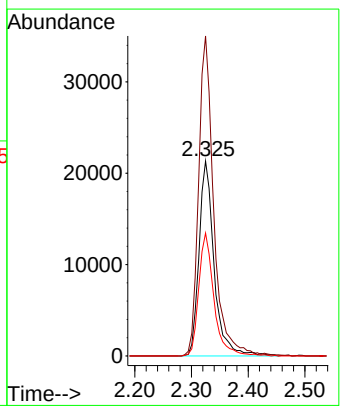


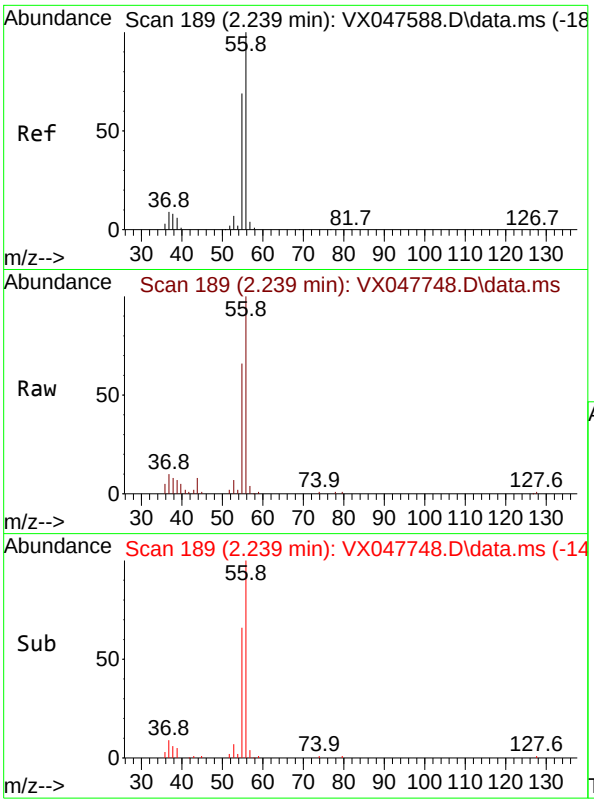


#12
1,1-Dichloroethene
Concen: 21.165 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 96 Resp: 39463

Ion	Ratio	Lower	Upper
96	100		
61	164.2	131.0	196.6
98	63.1	47.7	71.5



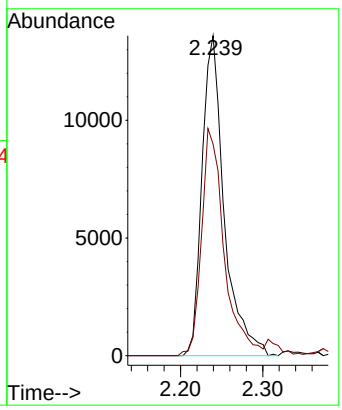


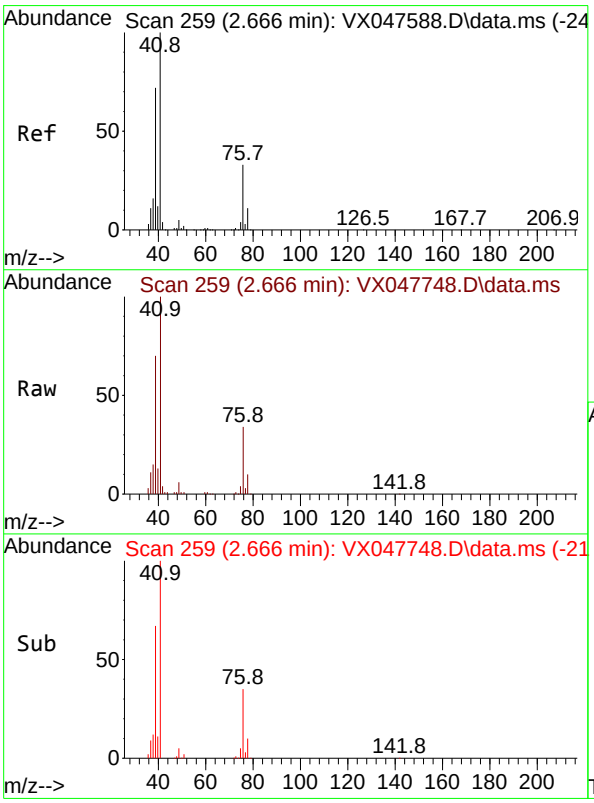
#13
Acrolein
Concen: 99.449 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 56 Resp: 25496

Ion	Ratio	Lower	Upper
56	100		
55	72.0	57.2	85.8

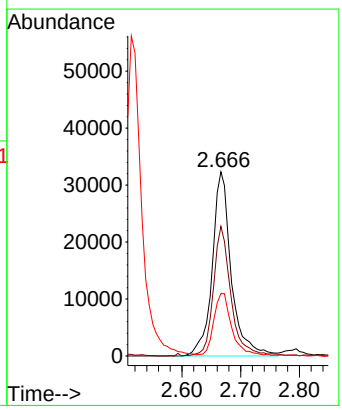


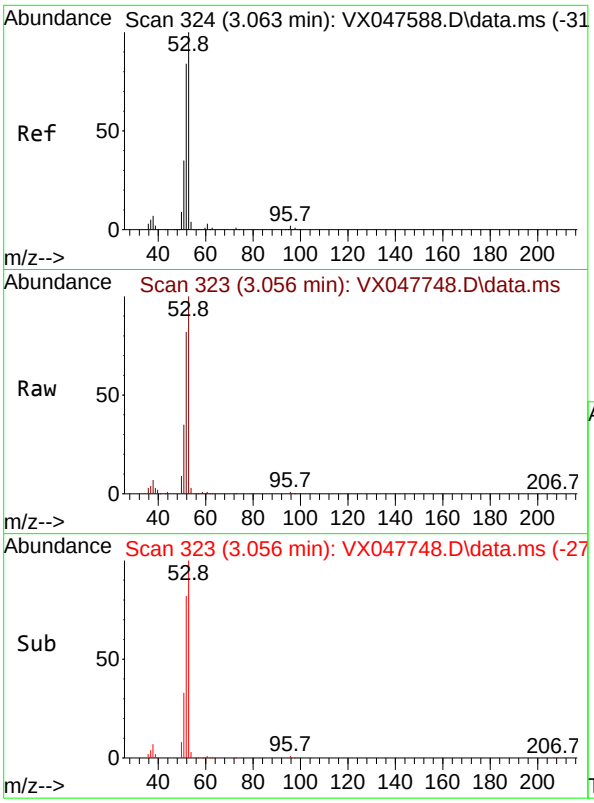


#14
Allyl chloride
Concen: 18.949 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 72907

Ion	Ratio	Lower	Upper
41	100		
39	65.0	54.7	82.1
76	31.9	25.7	38.5



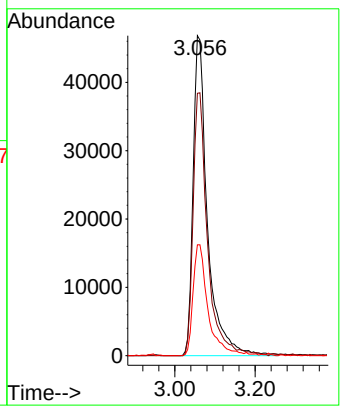


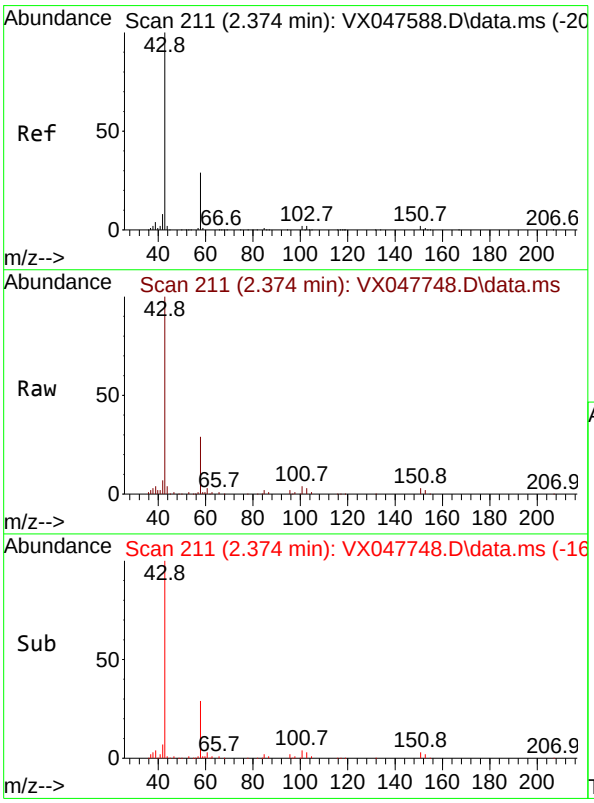
#15
Acrylonitrile
Concen: 113.065 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 53 Resp: 116513

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.4	99.6
51	36.5	29.5	44.3

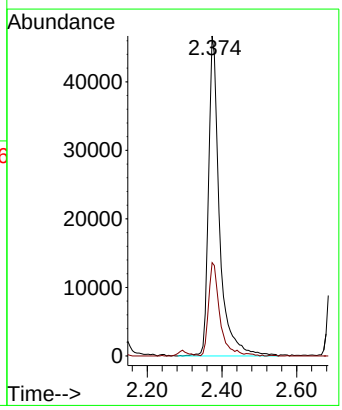


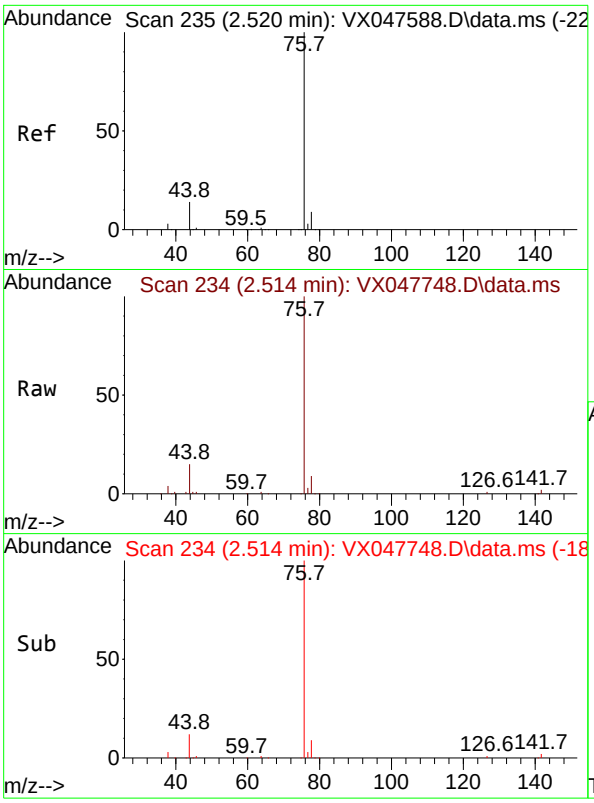


#16
Acetone
Concen: 87.685 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 95237

Ion	Ratio	Lower	Upper
43	100		
58	29.1	23.4	35.0



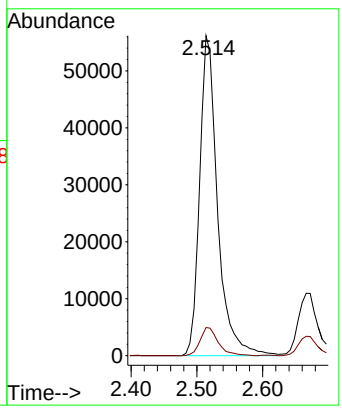


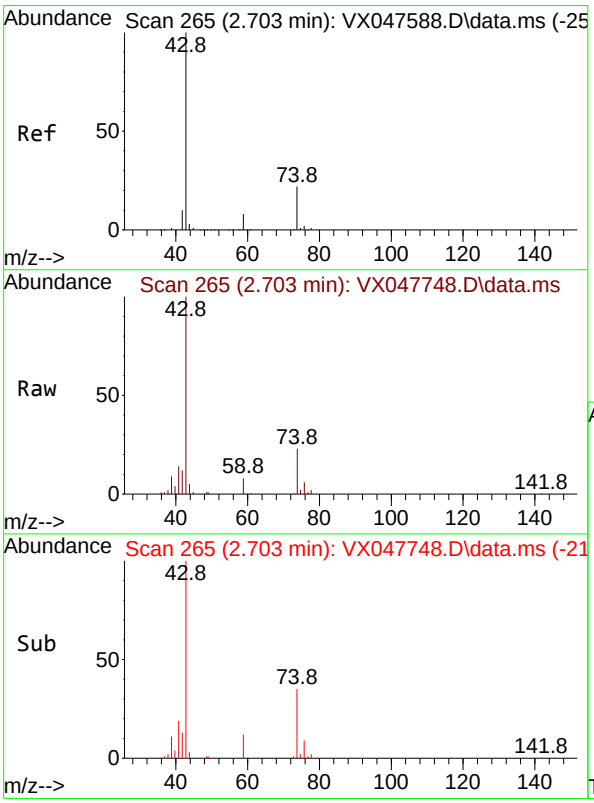
#17
Carbon Disulfide
Concen: 20.869 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 76 Resp: 106524

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2

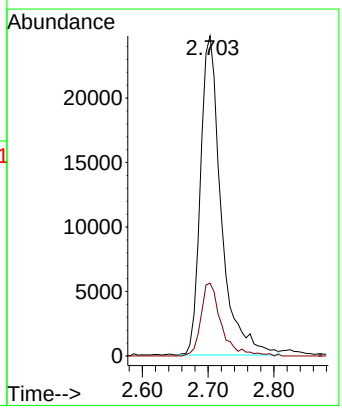


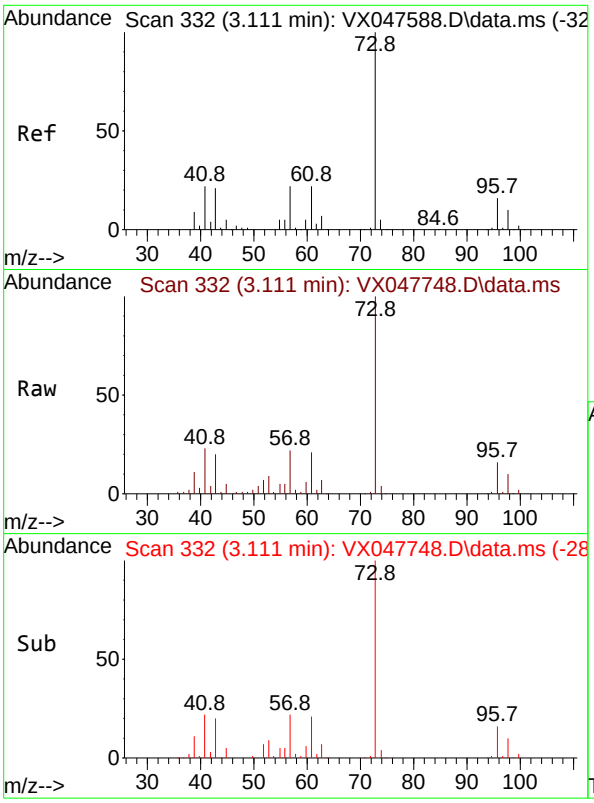


#18
Methyl Acetate
Concen: 22.400 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 54144

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.4	26.2



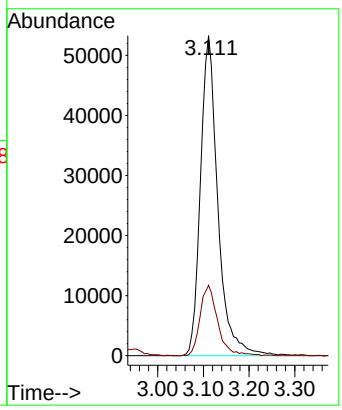


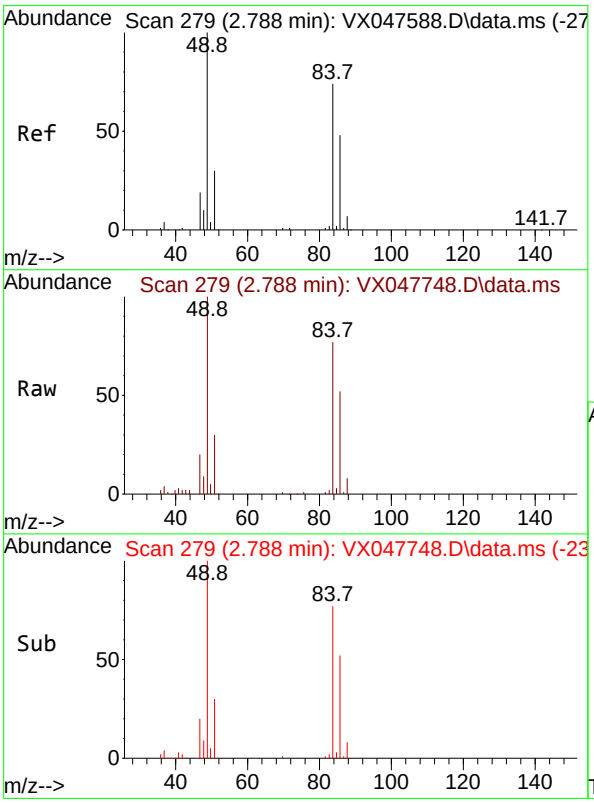
#19
Methyl tert-butyl Ether
Concen: 20.586 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 73 Resp: 140115

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.2

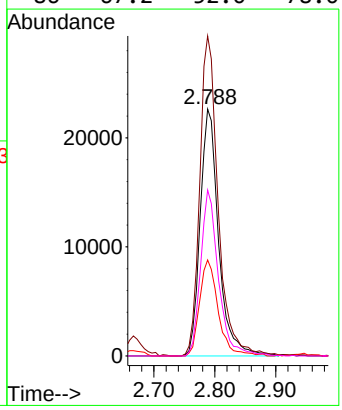


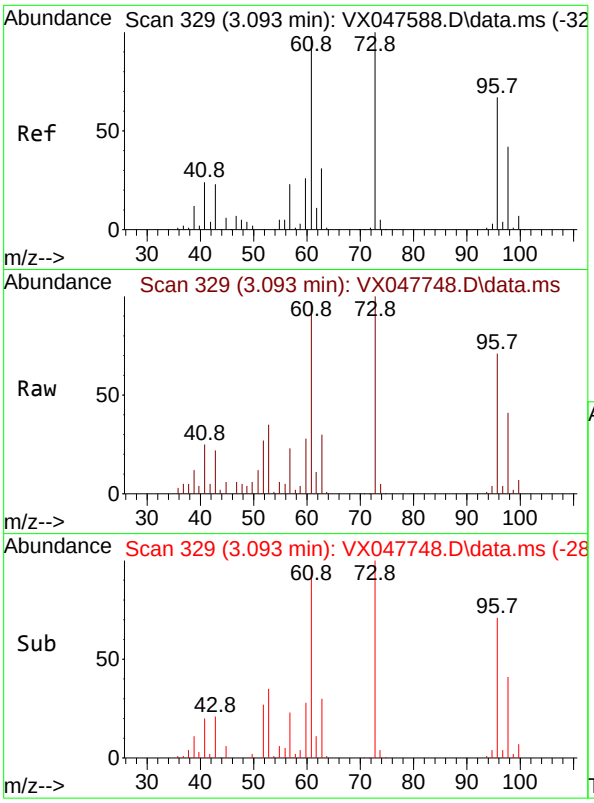


#20
Methylene Chloride
Concen: 20.740 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 84 Resp: 47681

Ion	Ratio	Lower	Upper
84	100		
49	129.6	108.6	162.8
51	38.9	32.6	48.8
86	67.2	52.0	78.0



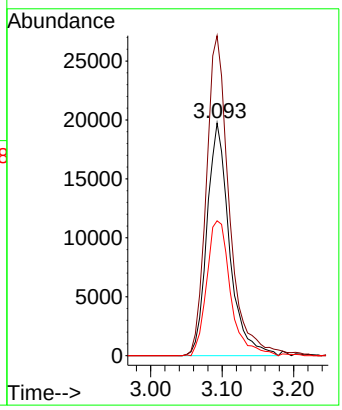


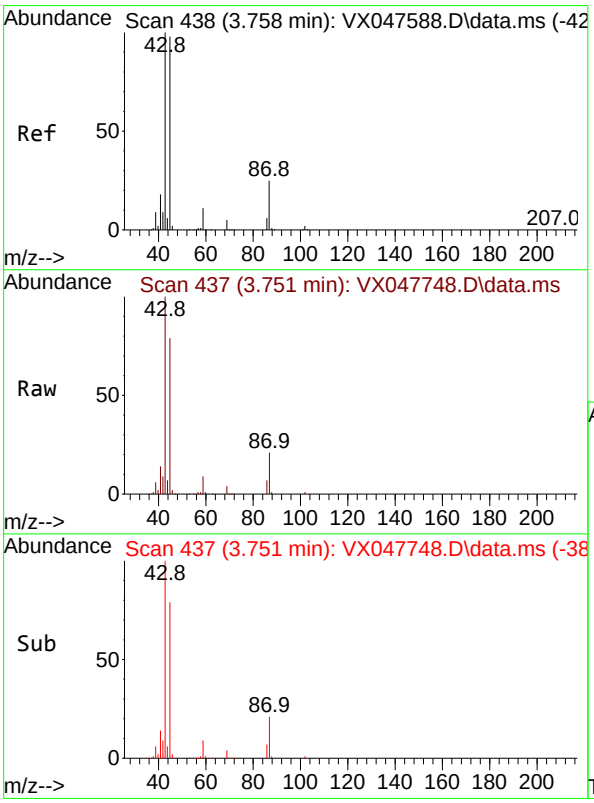
#21
trans-1,2-Dichloroethene
Concen: 21.362 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 96 Resp: 42881

Ion	Ratio	Lower	Upper
96	100		
61	137.6	116.2	174.2
98	58.0	49.3	73.9

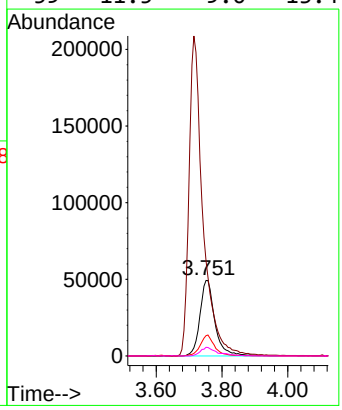


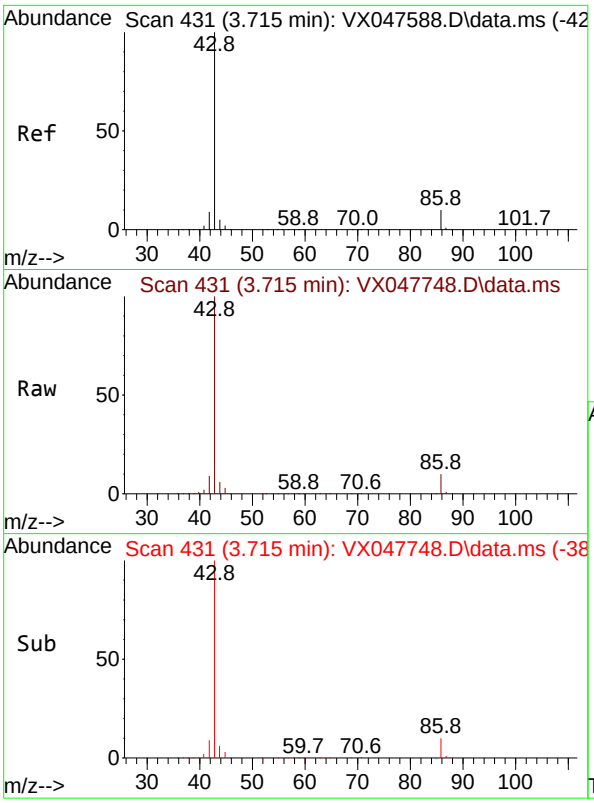


#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 45 Resp: 155798

Ion	Ratio	Lower	Upper
45	100		
43	125.6	81.0	121.4#
87	26.9	20.3	30.5
59	11.5	9.0	13.4



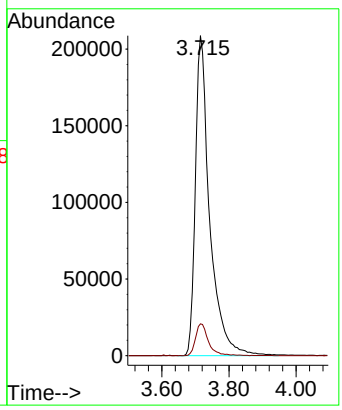


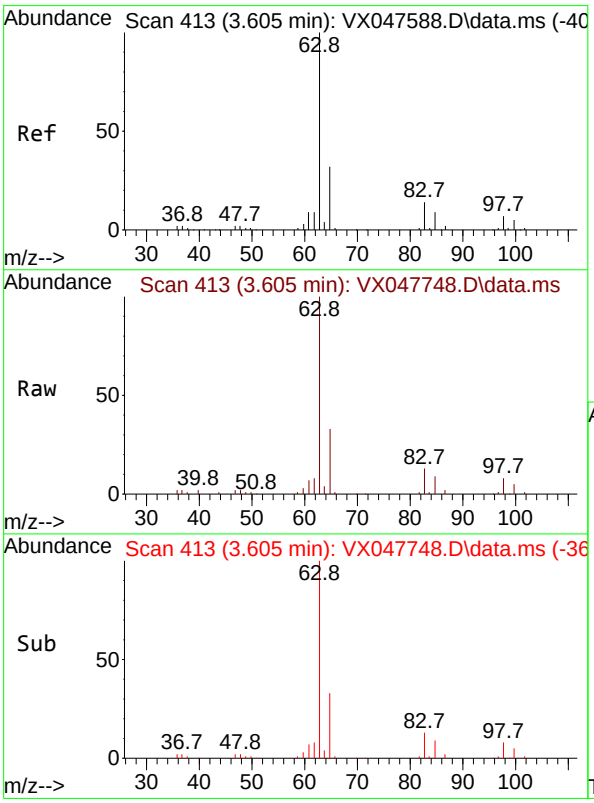
#23
Vinyl Acetate
Concen: 103.461 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 617433

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

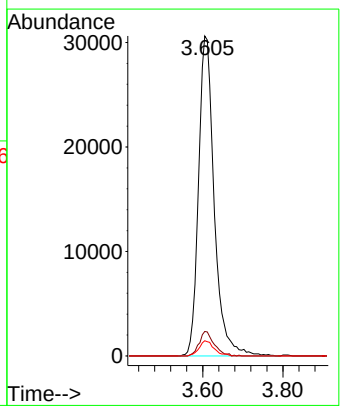


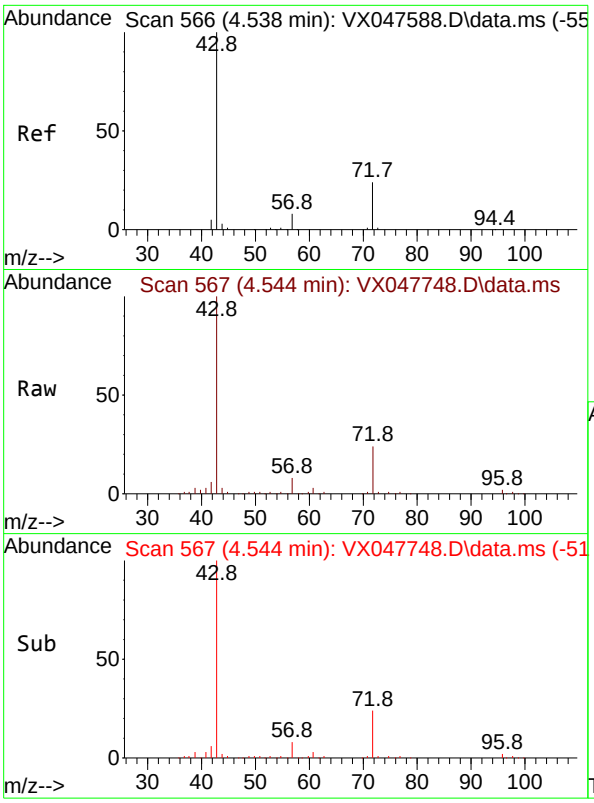


#24
1,1-Dichloroethane
Concen: 21.012 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 83274

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.8	11.2
100	4.8	2.3	6.9



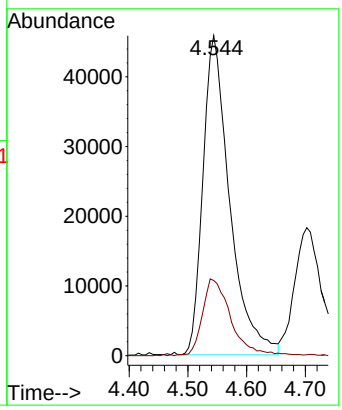


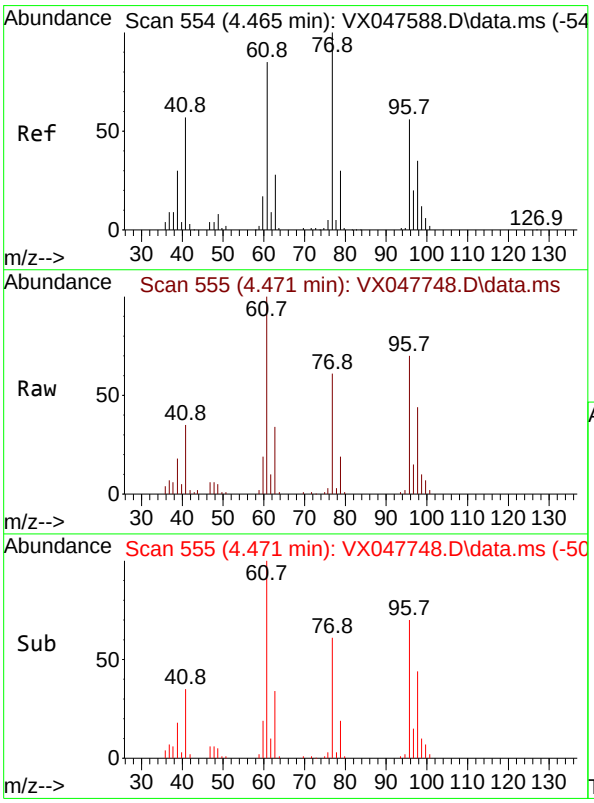
#25
2-Butanone
Concen: 106.972 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 144925

Ion	Ratio	Lower	Upper
43	100		
72	23.3	20.1	30.1

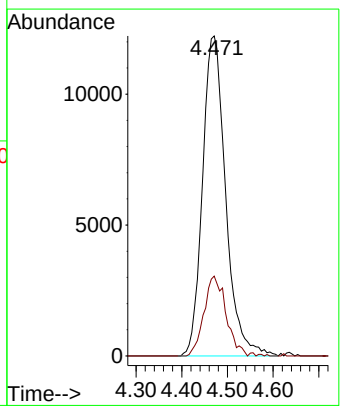


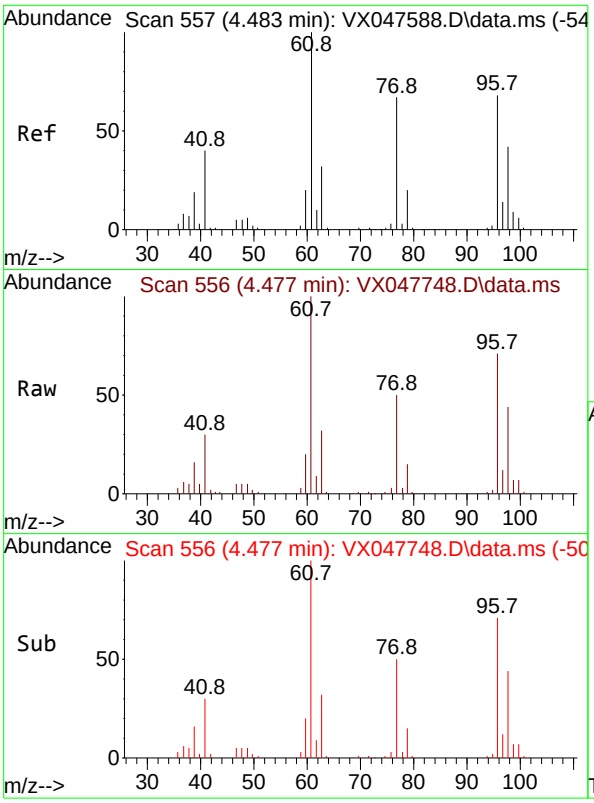


#26
2,2-Dichloropropane
Concen: 13.043 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 77 Resp: 42968

Ion	Ratio	Lower	Upper
77	100		
97	23.7	10.9	32.7



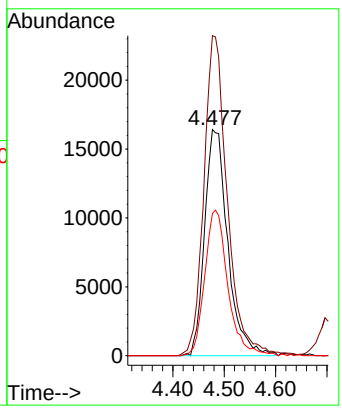


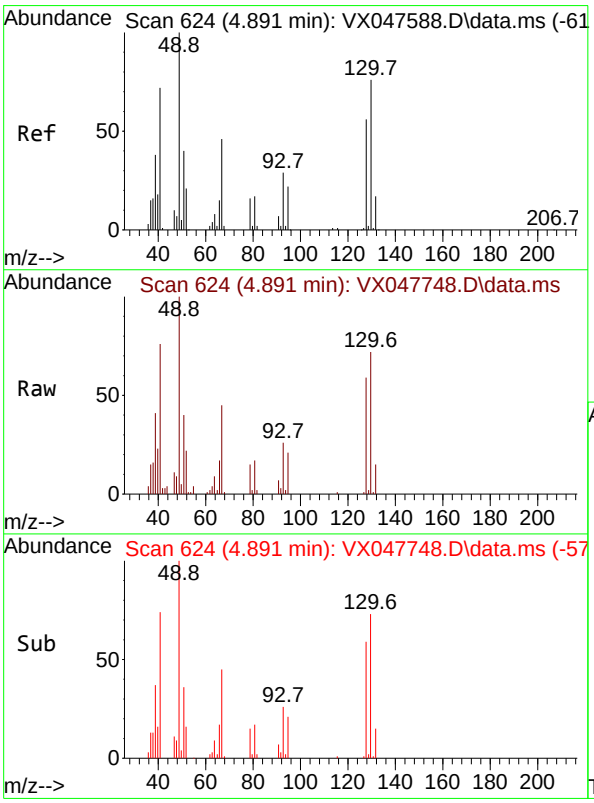
#27
cis-1,2-Dichloroethene
Concen: 20.894 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 96 Resp: 51366

Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	303.2
98	64.2	0.0	127.8

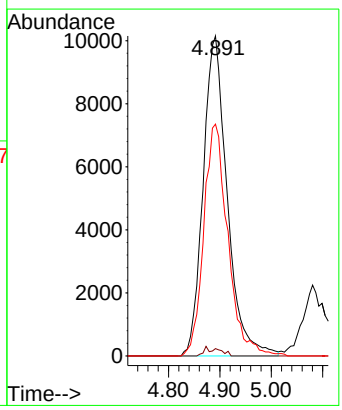


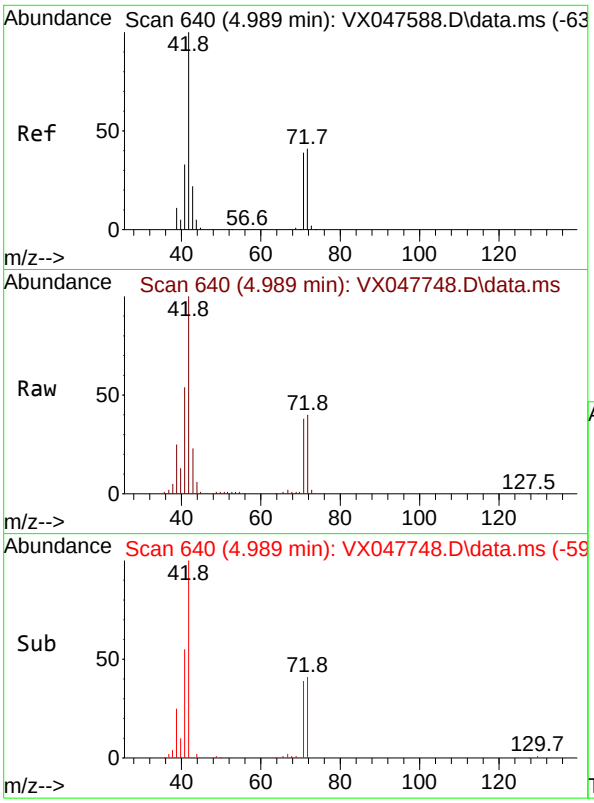


#28
Bromochloromethane
Concen: 19.085 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 49 Resp: 33021

Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.2
130	72.6	57.8	86.8



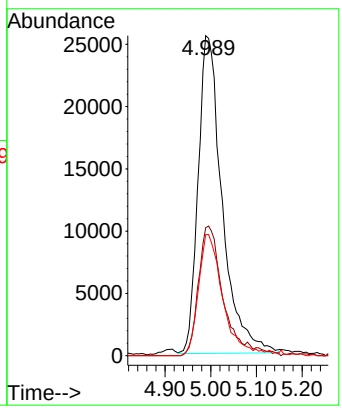


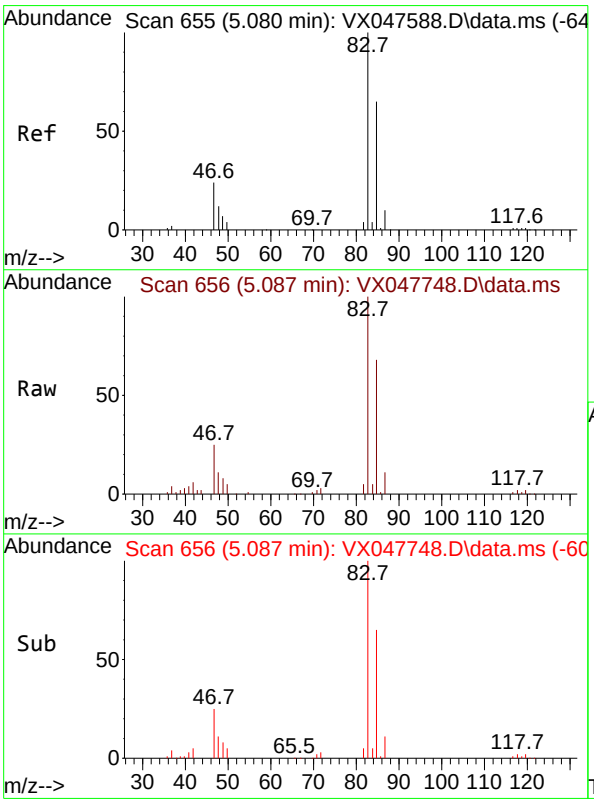
#29
Tetrahydrofuran
Concen: 114.248 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 42 Resp: 93114

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.2	51.2
71	39.0	31.9	47.9

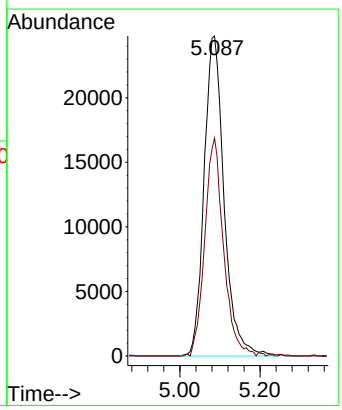


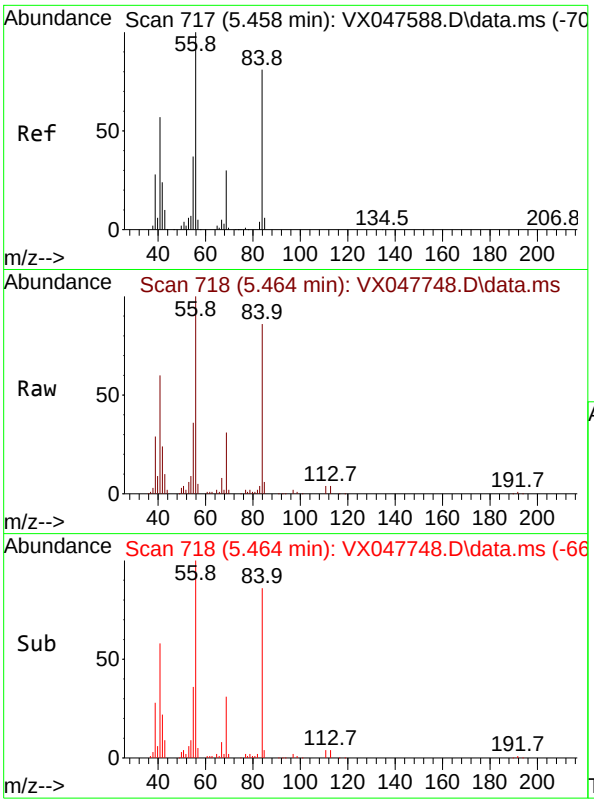


#30
Chloroform
Concen: 21.345 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 83 Resp: 85486

Ion	Ratio	Lower	Upper
83	100		
85	68.1	51.8	77.6



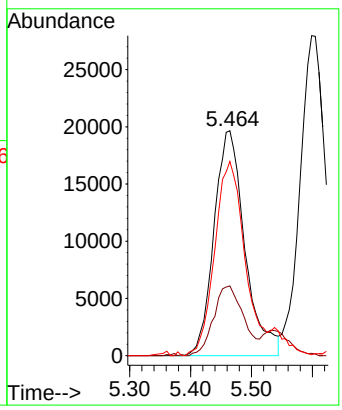


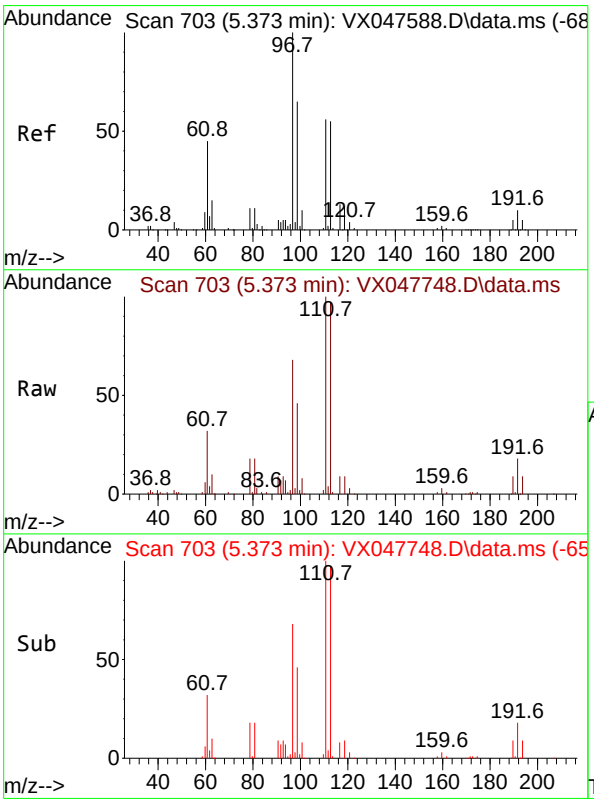
#31
Cyclohexane
Concen: 20.939 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 56 Resp: 69116

Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.8	35.8
84	84.6	64.6	97.0

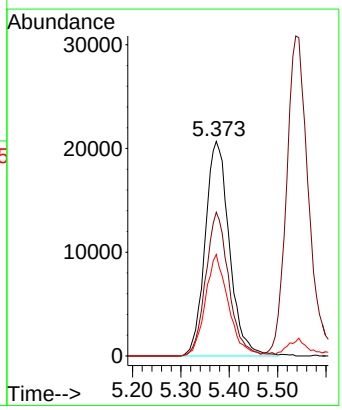


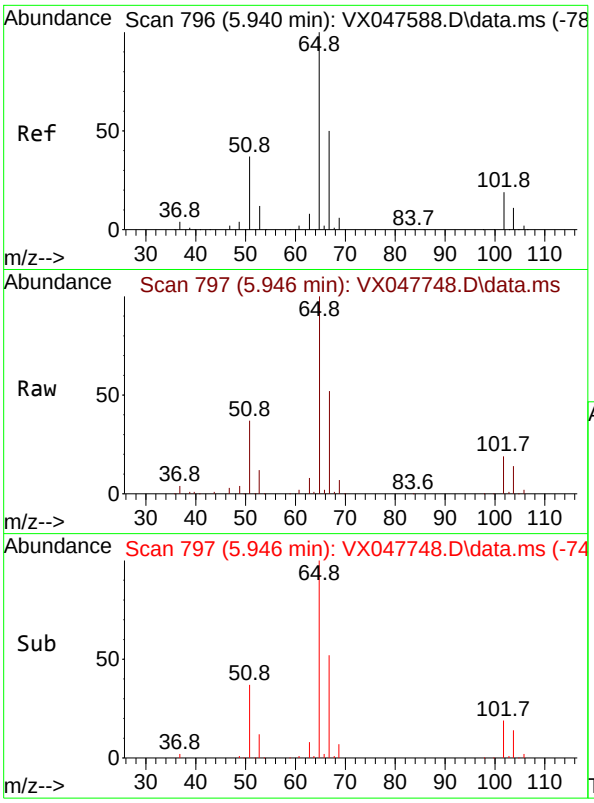


#32
1,1,1-Trichloroethane
Concen: 21.168 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 97 Resp: 71907

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	45.4	35.8	53.8



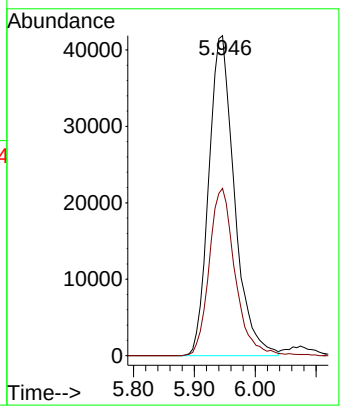


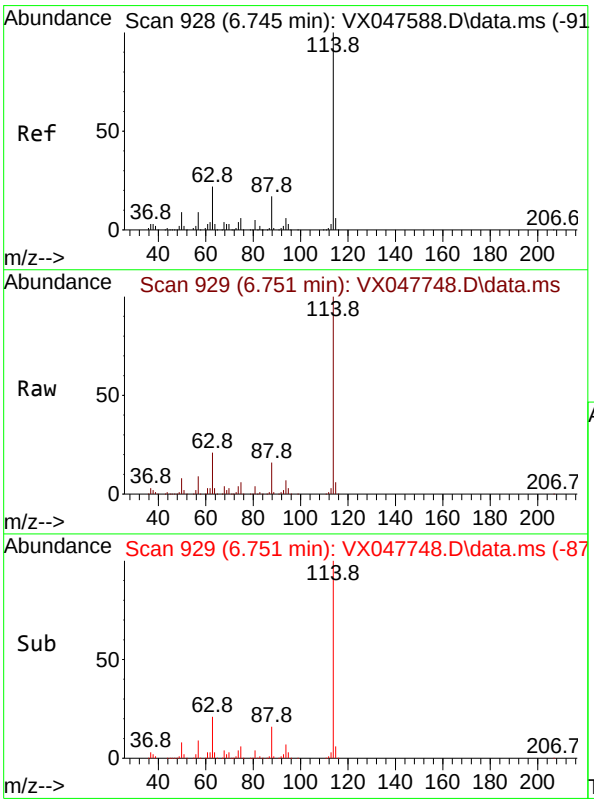
#33
1,2-Dichloroethane-d4
Concen: 48.994 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 65 Resp: 122385

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.0

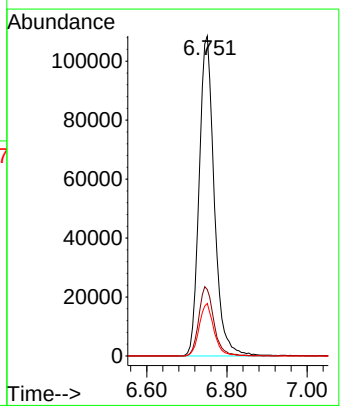


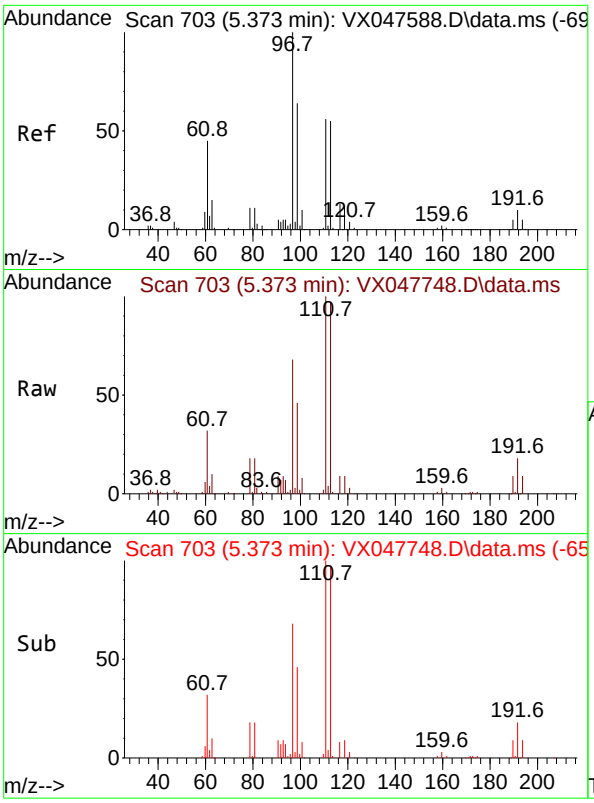


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:114 Resp: 284011

Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	44.0
88	16.4	0.0	34.2



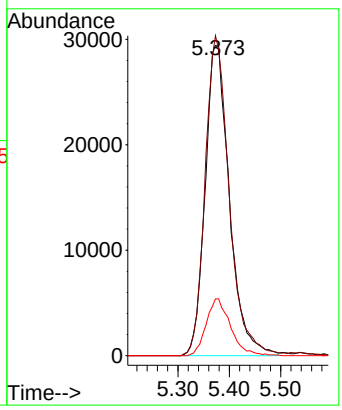


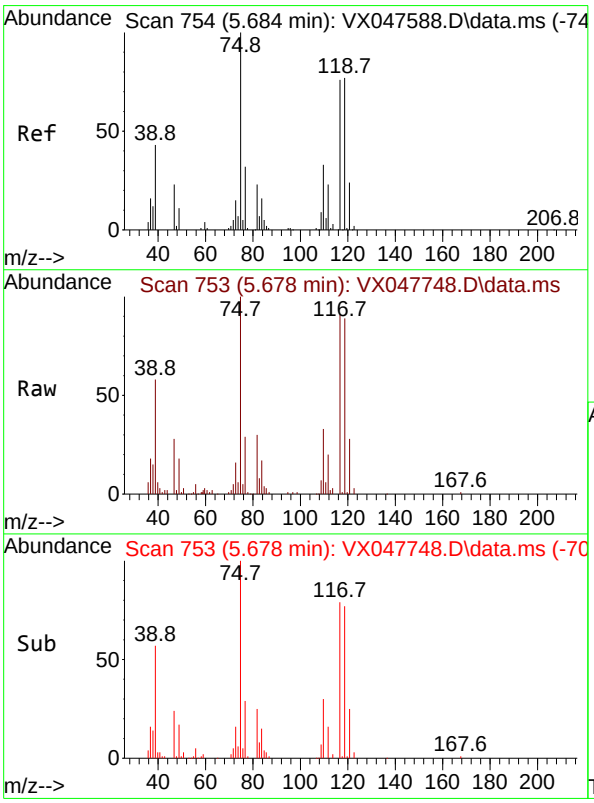
#35
Dibromofluoromethane
Concen: 50.711 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:113 Resp: 96590

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	18.4	14.2	21.4

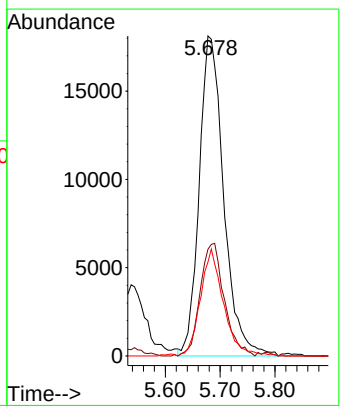


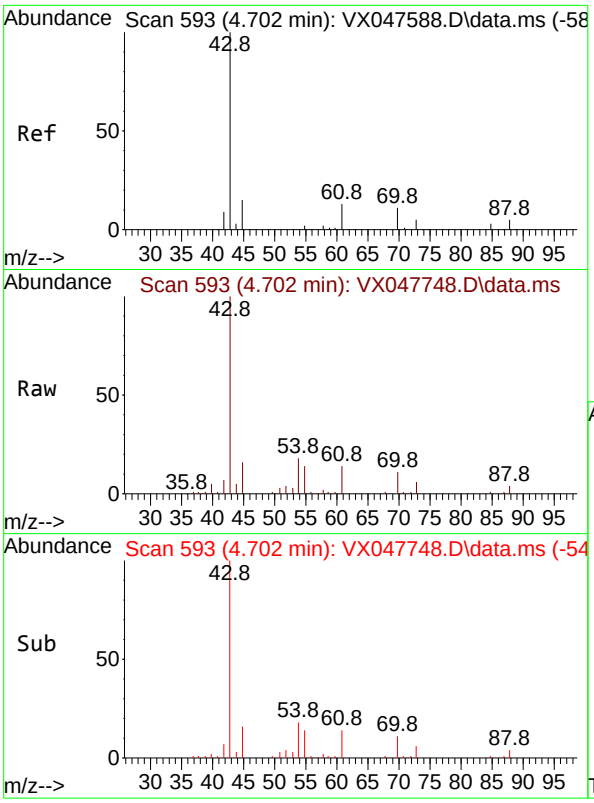


#36
1,1-Dichloropropene
Concen: 20.197 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 56214

Ion	Ratio	Lower	Upper
75	100		
110	34.6	16.7	50.1
77	31.5	24.3	36.5



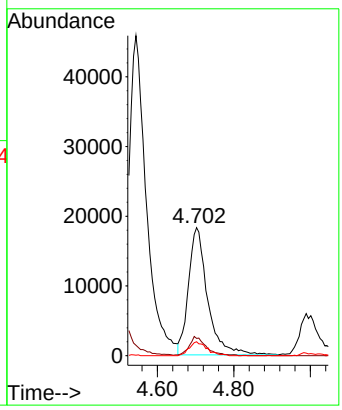


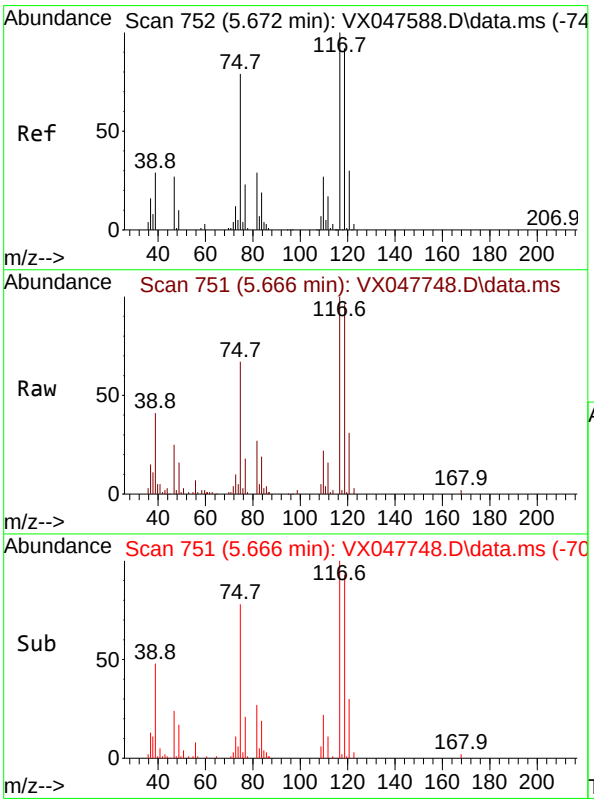
#37
Ethyl Acetate
Concen: 21.220 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 63237

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	10.2	7.9	11.9

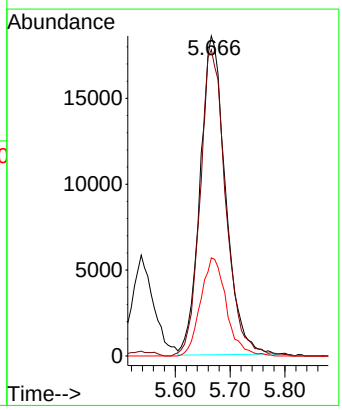


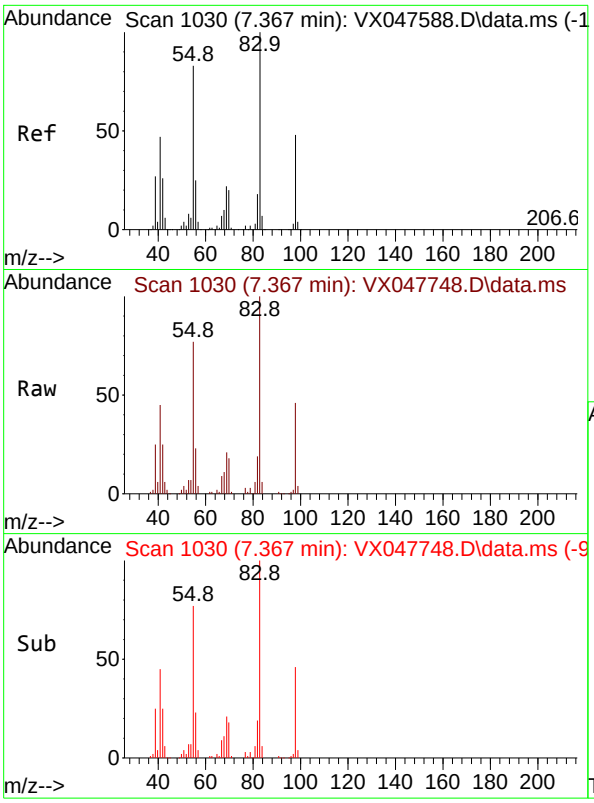


#38
Carbon Tetrachloride
Concen: 19.672 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 59490

Ion	Ratio	Lower	Upper
117	100		
119	95.6	73.4	110.2
121	30.8	23.8	35.6



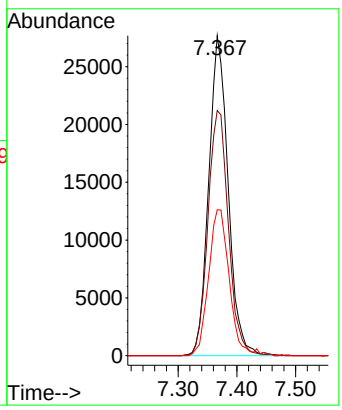


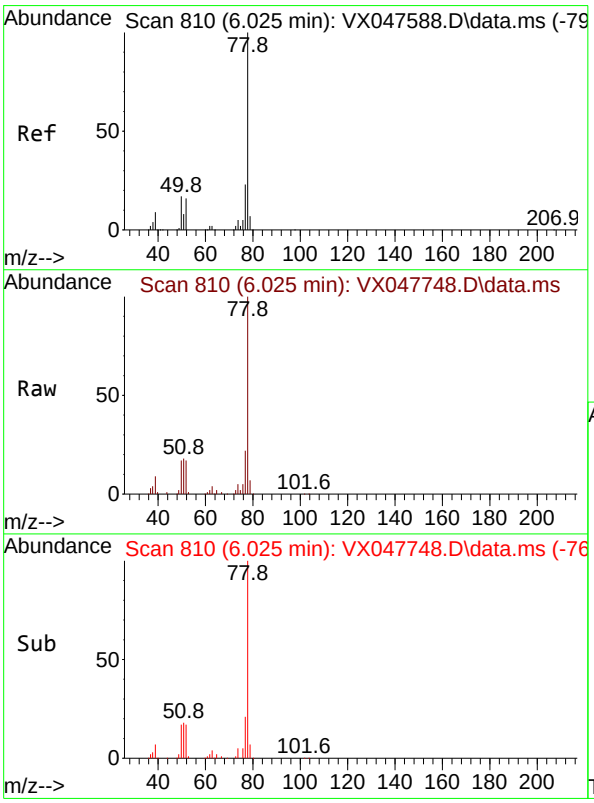
#39
Methylcyclohexane
Concen: 20.138 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 83 Resp: 63625

Ion	Ratio	Lower	Upper
83	100		
55	76.6	66.4	99.6
98	45.6	38.1	57.1

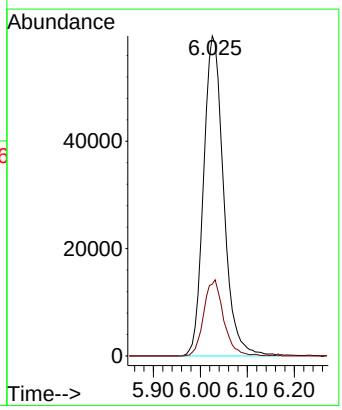


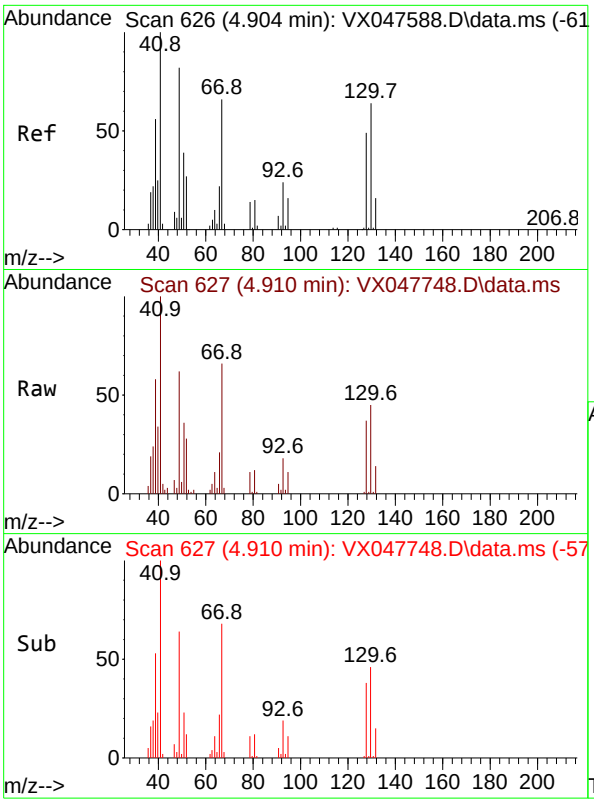


#40
Benzene
Concen: 20.873 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 78 Resp: 176451

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.8	28.2



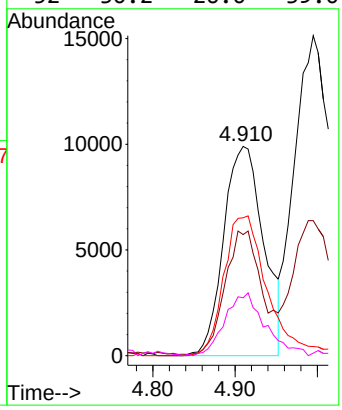


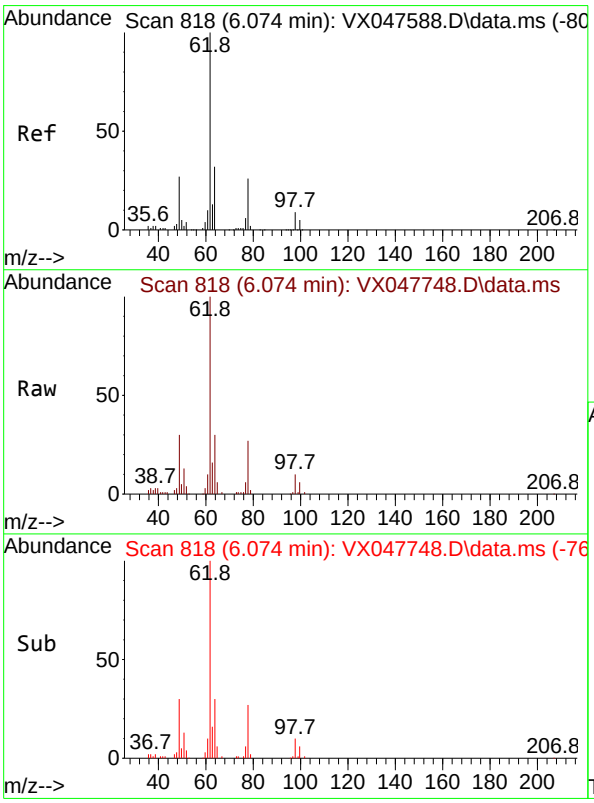
#41
Methacrylonitrile
Concen: 21.696 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 41 Resp: 33379

Ion	Ratio	Lower	Upper
41	100		
39	54.8	43.3	64.9
67	73.2	58.6	87.8
52	30.2	26.0	39.0

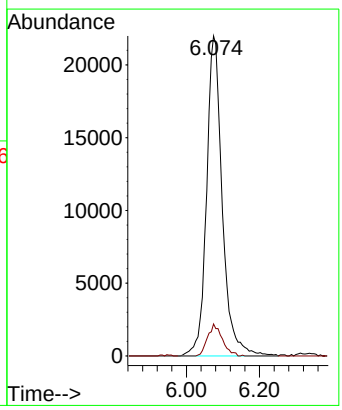


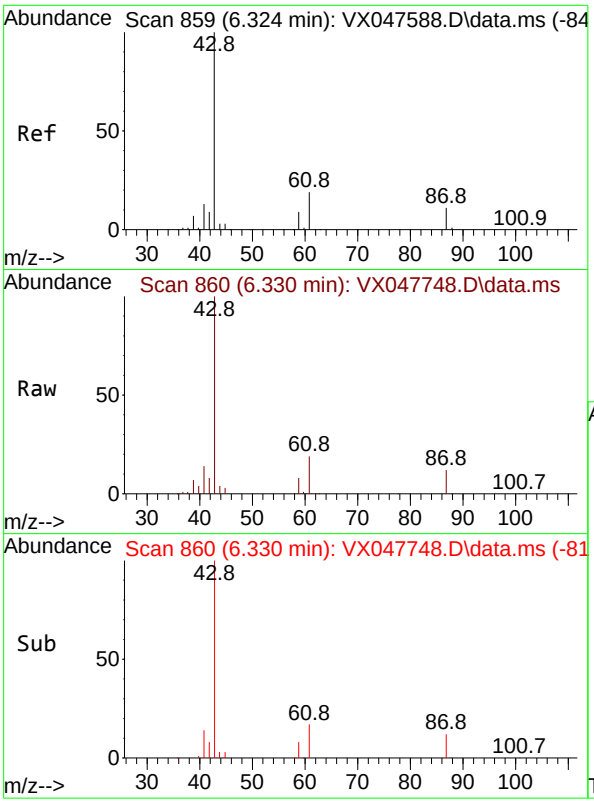


#42
1,2-Dichloroethane
Concen: 20.366 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 62 Resp: 65506

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0



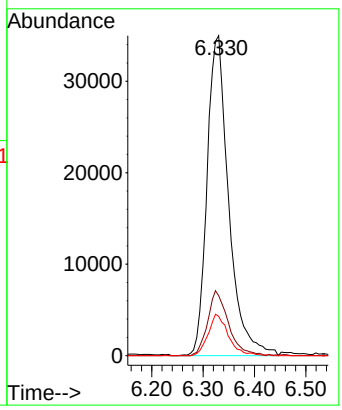


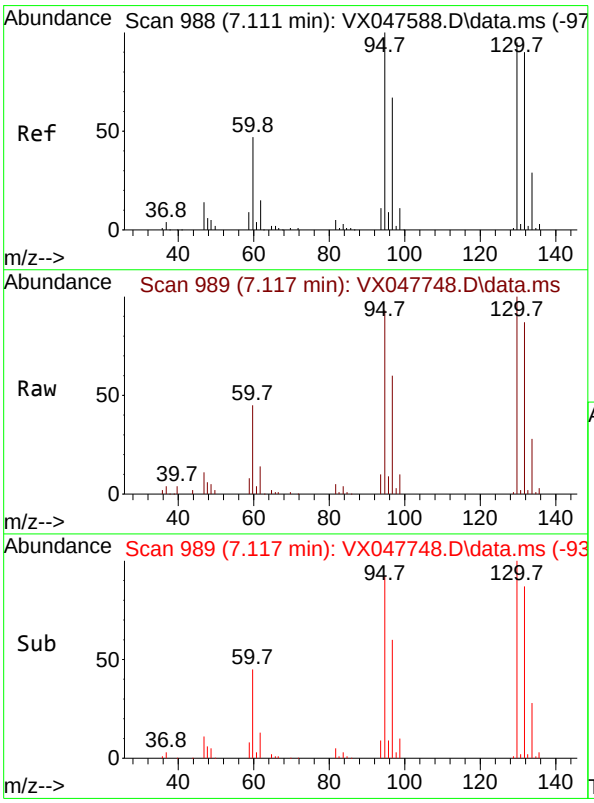
#43
Isopropyl Acetate
Concen: 20.917 ug/l
RT: 6.330 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 102233

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.1	9.6	14.4

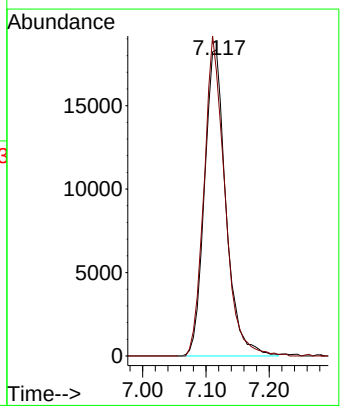


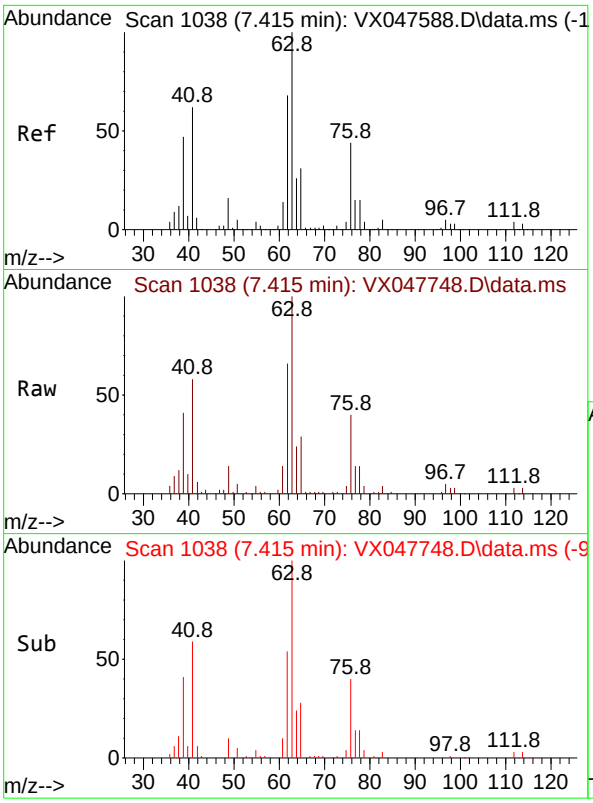


#44
Trichloroethene
Concen: 21.254 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:130 Resp: 43438

Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	210.8



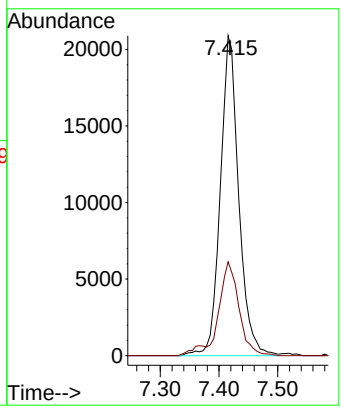


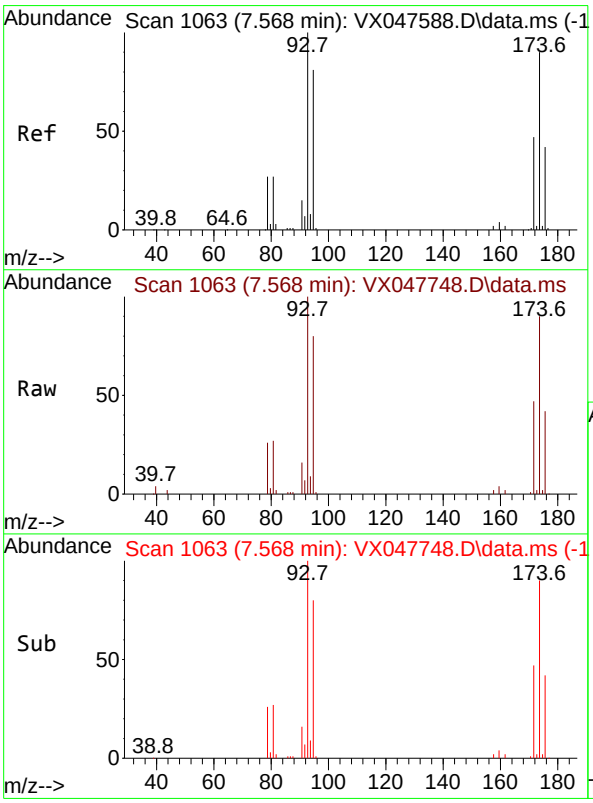
#45
1,2-Dichloropropane
Concen: 21.024 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 63 Resp: 45508

Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.7	37.1

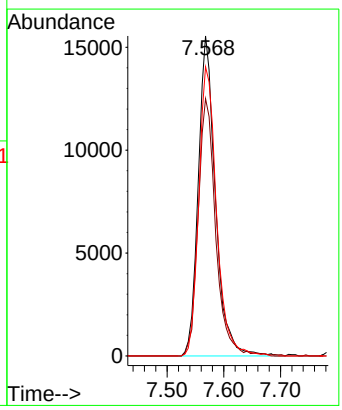


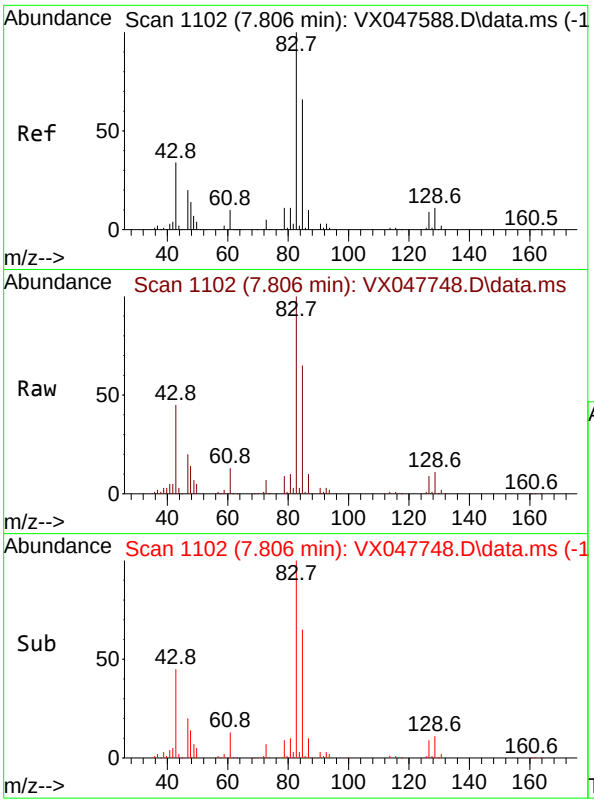


#46
Dibromomethane
Concen: 20.725 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 93 Resp: 32646

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	93.9	71.6	107.4



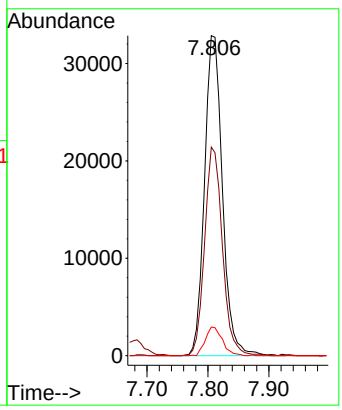


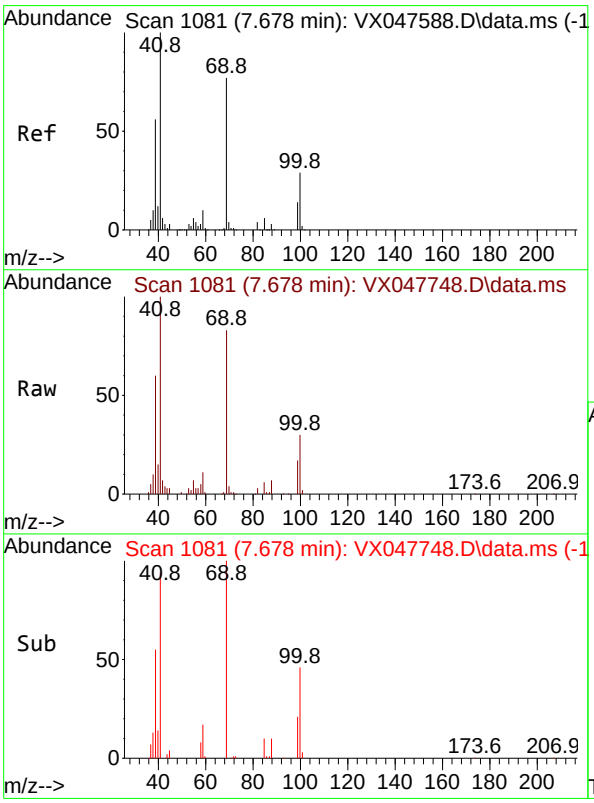
#47
Bromodichloromethane
Concen: 20.681 ug/l
RT: 7.806 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 83 Resp: 67223

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.5	78.7
127	8.9	6.9	10.3

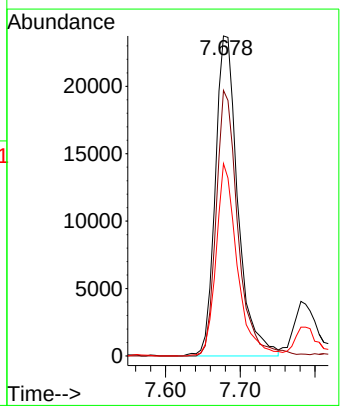


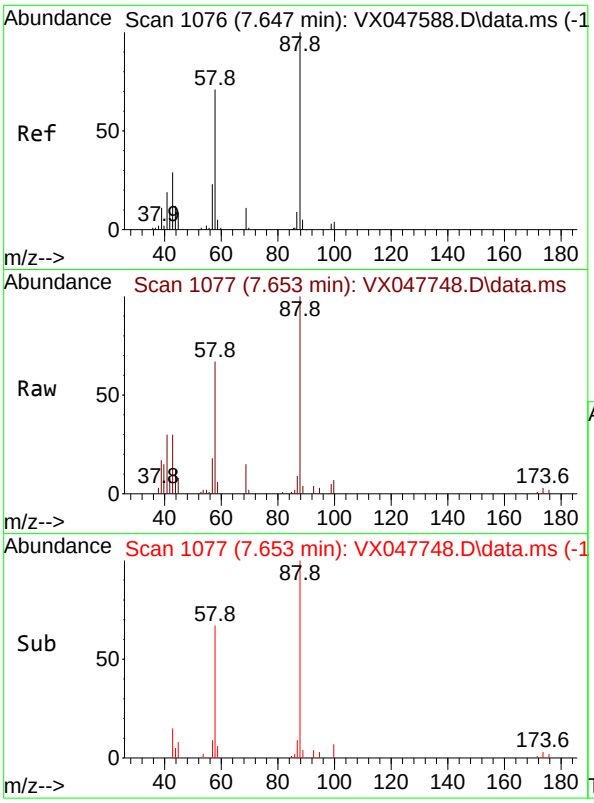


#48
Methyl methacrylate
Concen: 20.524 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 41 Resp: 49967

Ion	Ratio	Lower	Upper
41	100		
69	80.1	61.4	92.2
39	56.5	45.8	68.6



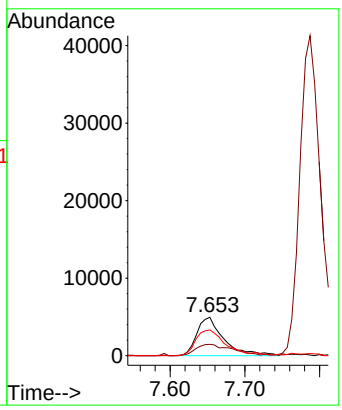


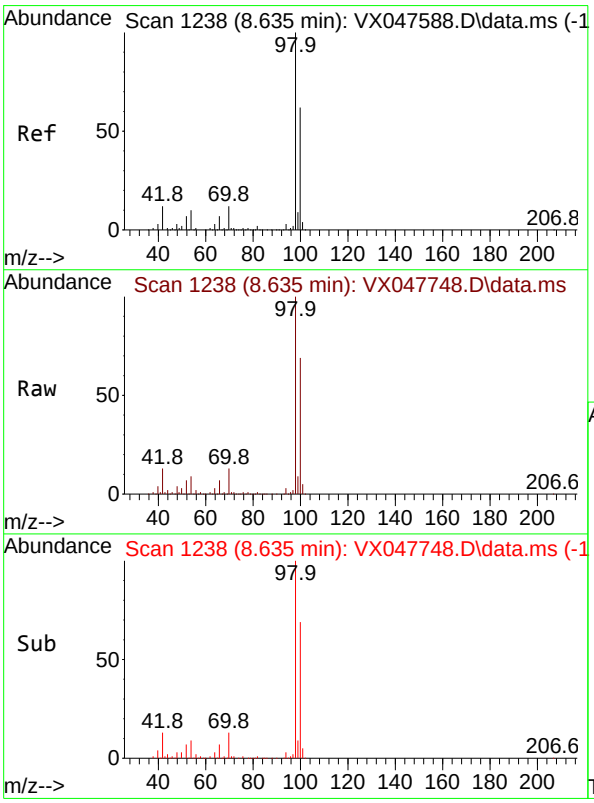
#49
1,4-Dioxane
Concen: 503.790 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 88 Resp: 12395

Ion	Ratio	Lower	Upper
88	100		
43	40.4	30.2	45.2
58	75.2	59.5	89.3

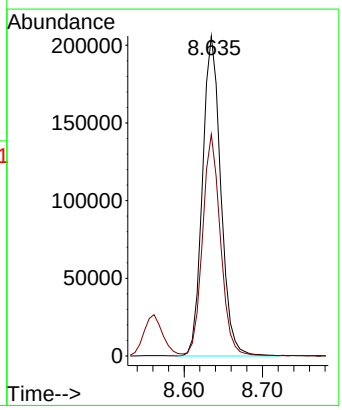


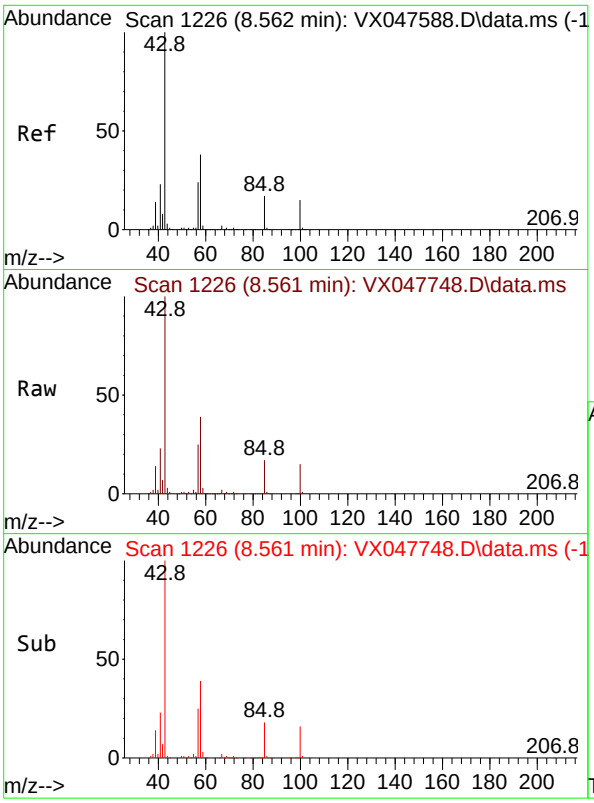


#50
Toluene-d8
Concen: 50.607 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 98 Resp: 333541

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.0	79.4



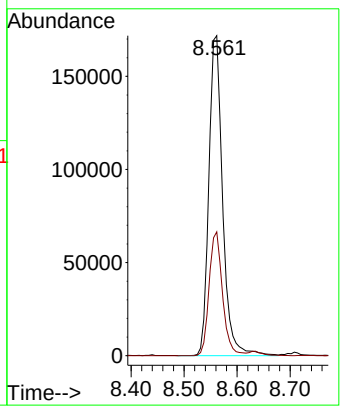


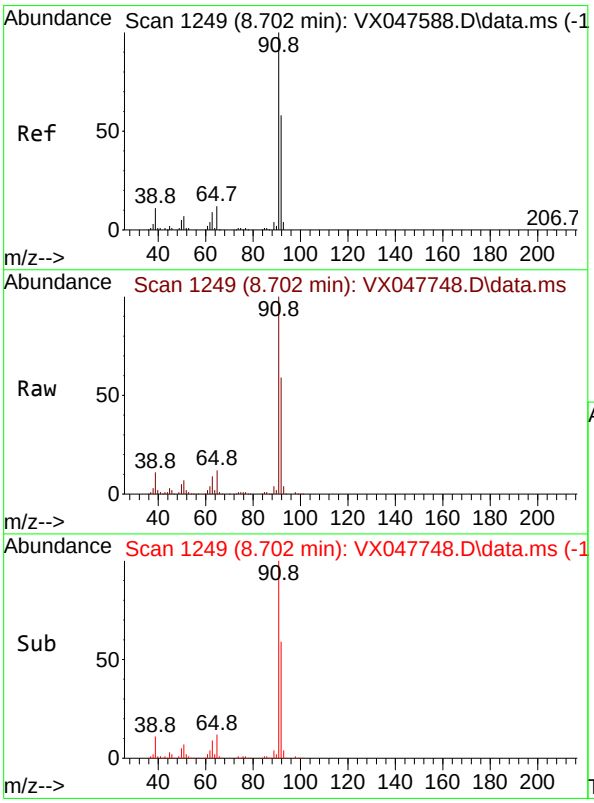
#51
4-Methyl-2-Pentanone
Concen: 114.468 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 310191

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5

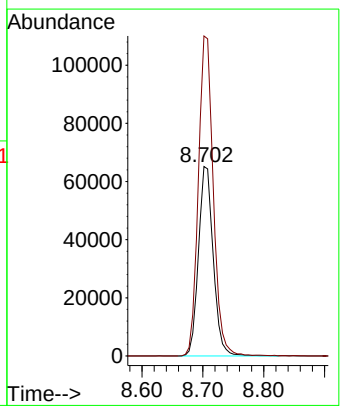


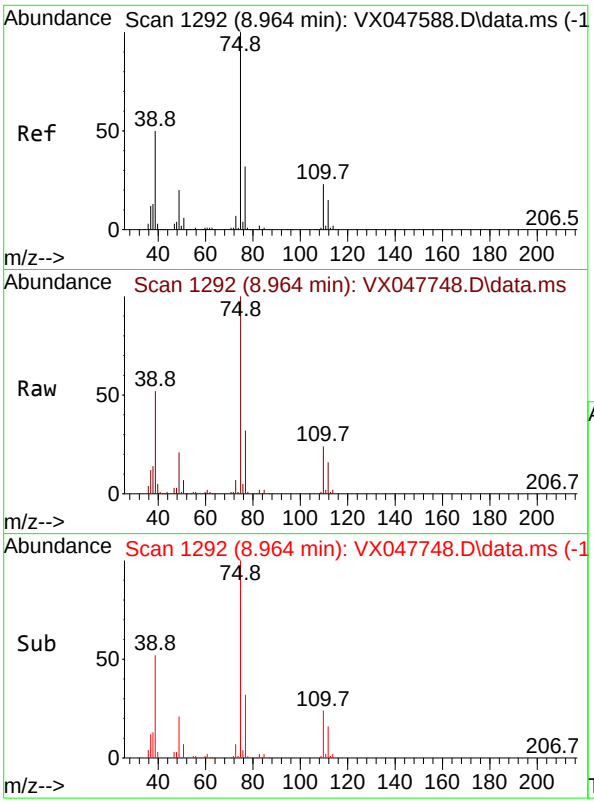


#52
Toluene
Concen: 21.098 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 92 Resp: 109881

Ion	Ratio	Lower	Upper
92	100		
91	170.9	137.1	205.7



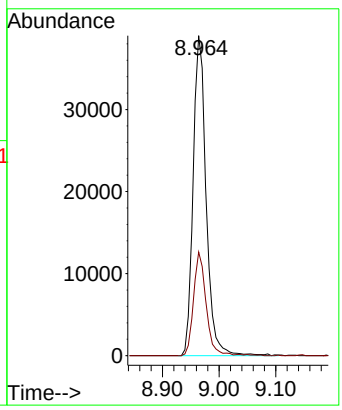


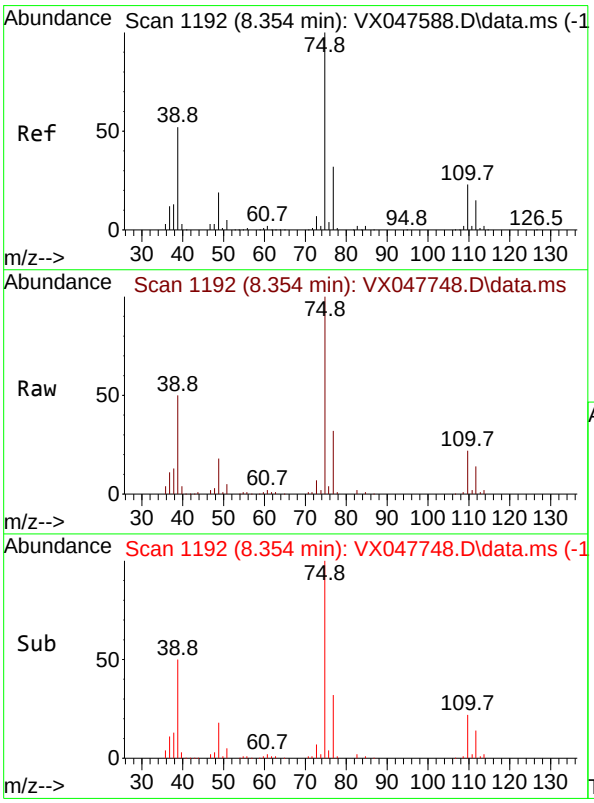
#53
t-1,3-Dichloropropene
Concen: 18.780 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 75 Resp: 62267

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.4	38.2

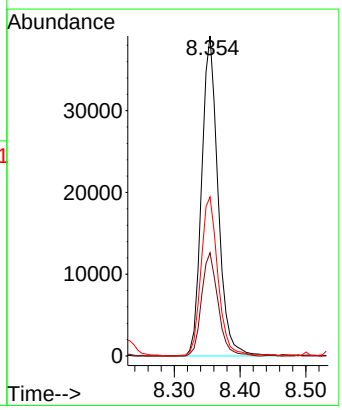


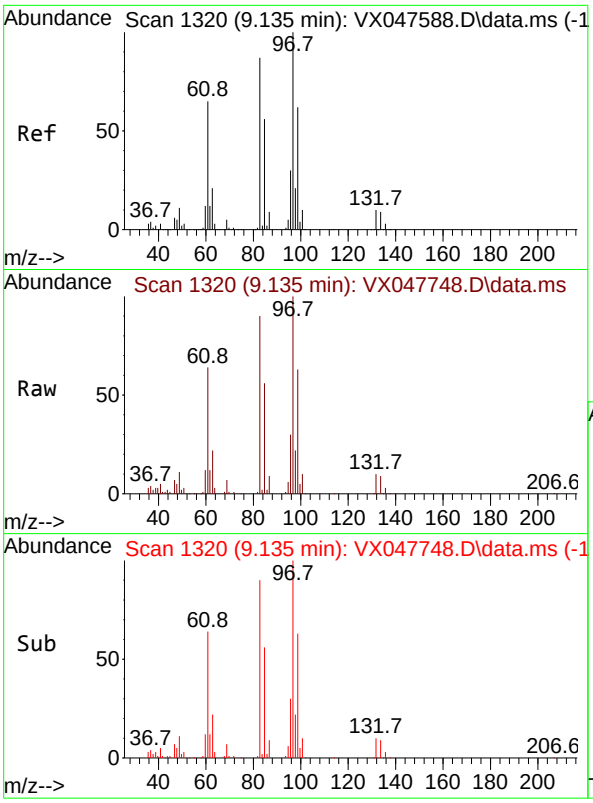


#54
cis-1,3-Dichloropropene
Concen: 19.135 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 67811

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	49.5	41.4	62.2



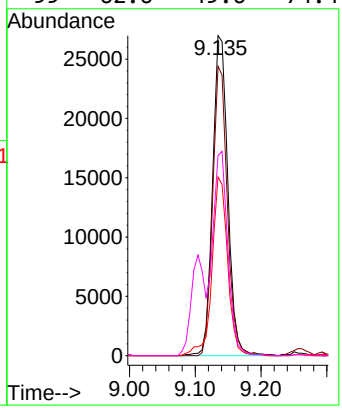


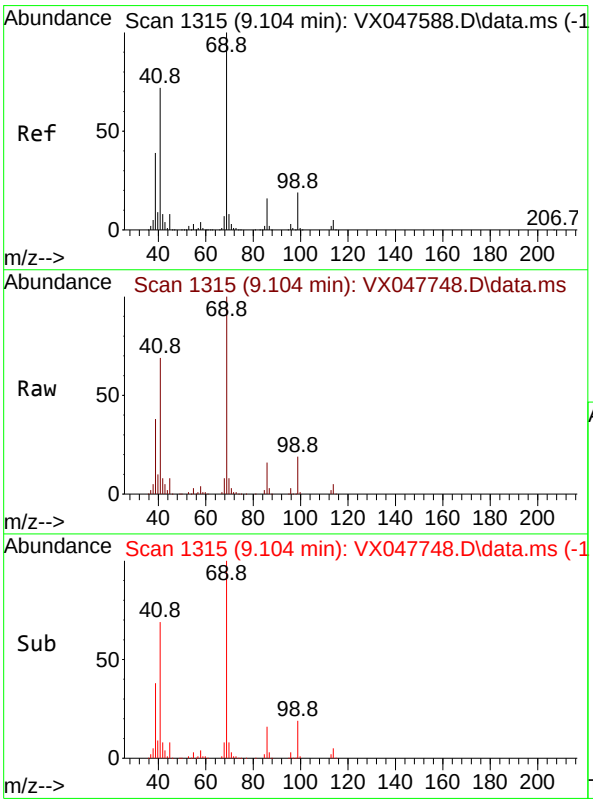
#55
1,1,2-Trichloroethane
Concen: 21.677 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 97 Resp: 43533

Ion	Ratio	Lower	Upper
97	100		
83	90.4	69.6	104.4
85	55.8	45.0	67.6
99	62.6	49.6	74.4

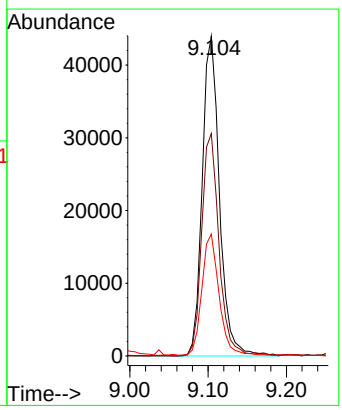


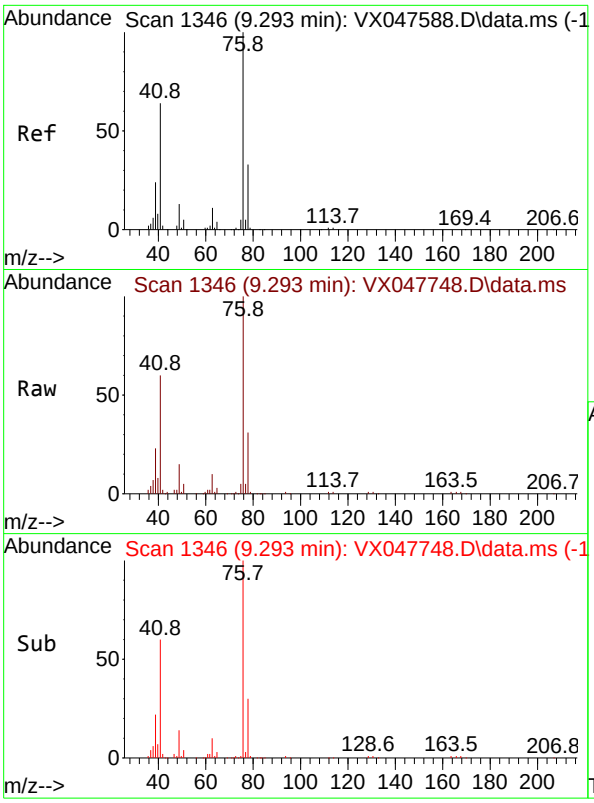


#56
Ethyl methacrylate
Concen: 21.313 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 69 Resp: 67219

Ion	Ratio	Lower	Upper
69	100		
41	69.3	58.6	87.8
39	37.7	31.5	47.3



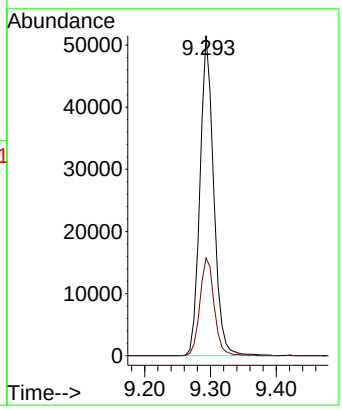


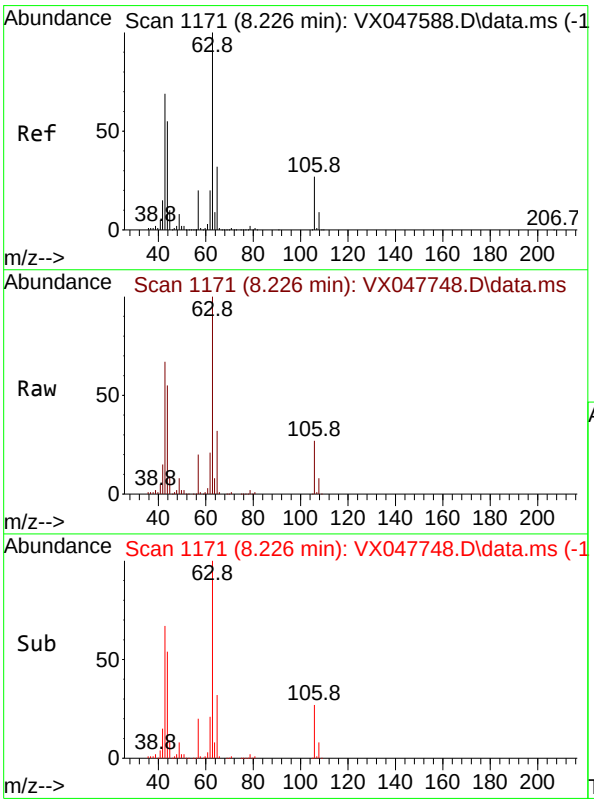
#57
1,3-Dichloropropane
Concen: 21.667 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 76 Resp: 74746

Ion	Ratio	Lower	Upper
76	100		
78	31.7	26.2	39.4

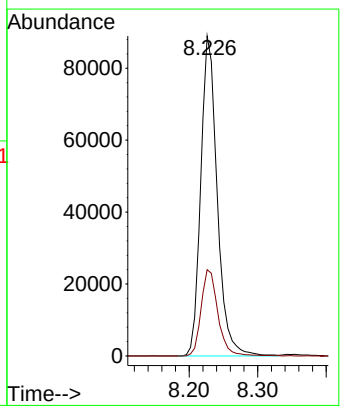


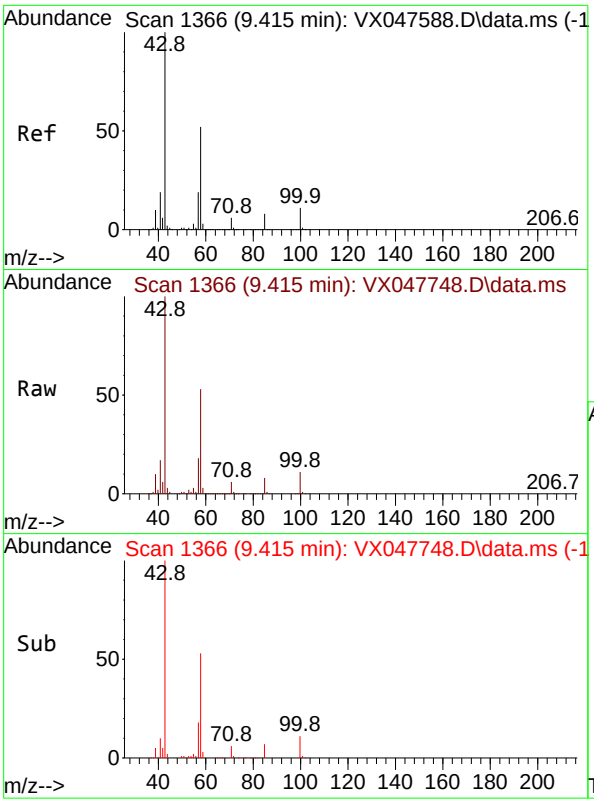


#58
2-Chloroethyl Vinyl ether
Concen: 105.735 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 63 Resp: 148860

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



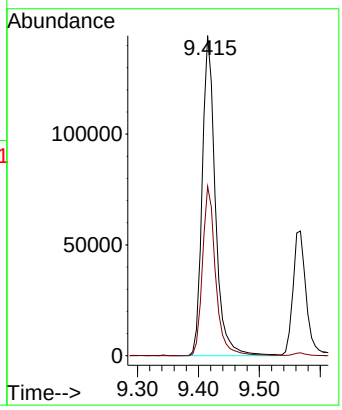


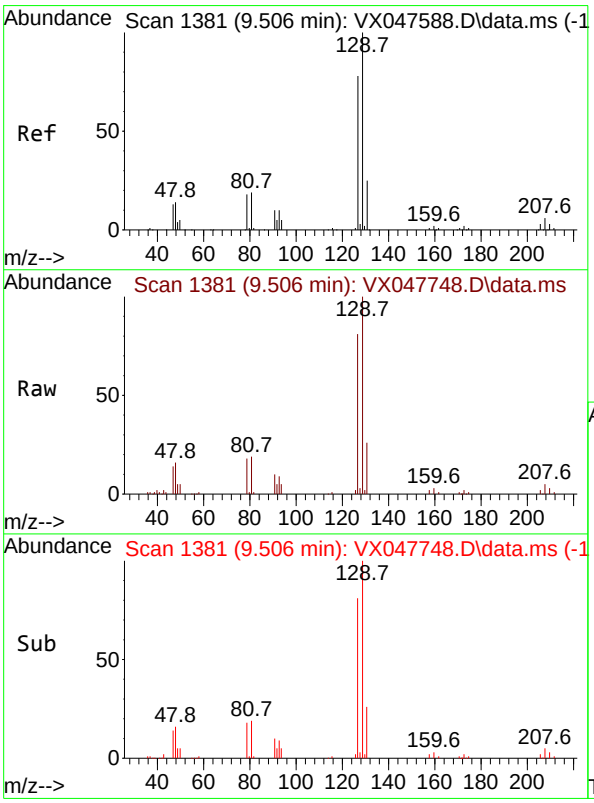
#59
2-Hexanone
Concen: 111.587 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 43 Resp: 217174

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2

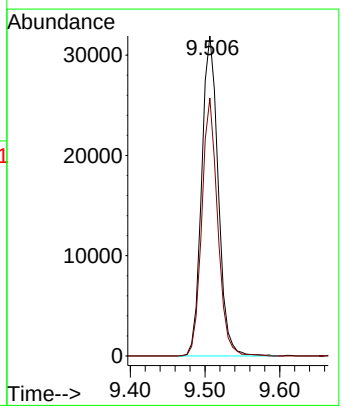


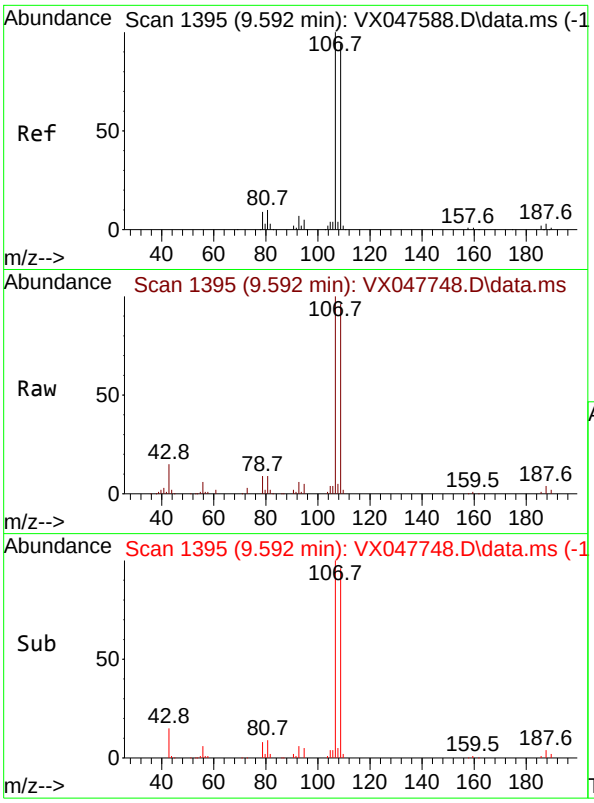


#60
Dibromochloromethane
Concen: 21.170 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:129 Resp: 48986

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.4	115.2



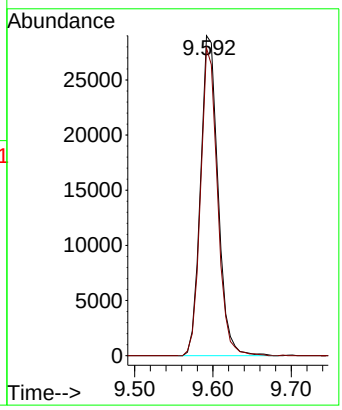


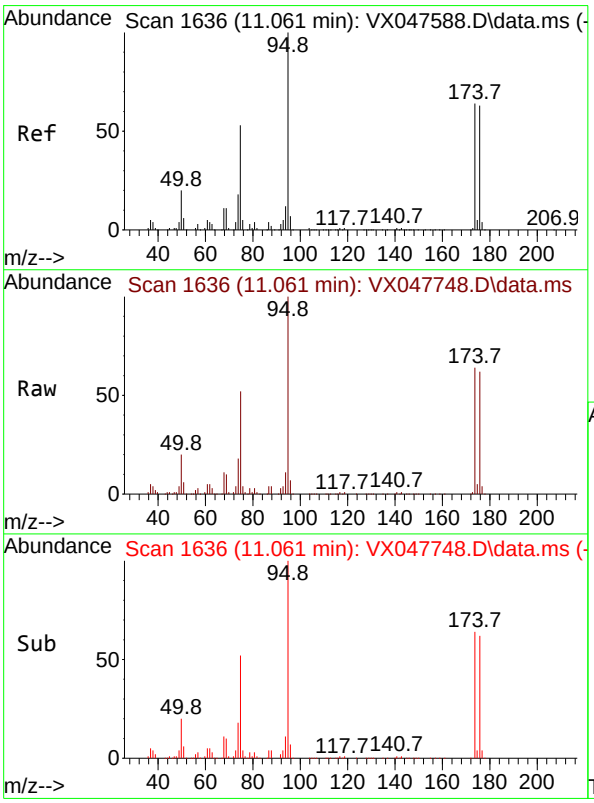
#61
1,2-Dibromoethane
Concen: 22.022 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:107 Resp: 45047

Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.3	112.9

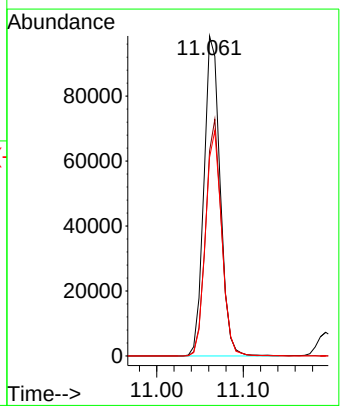


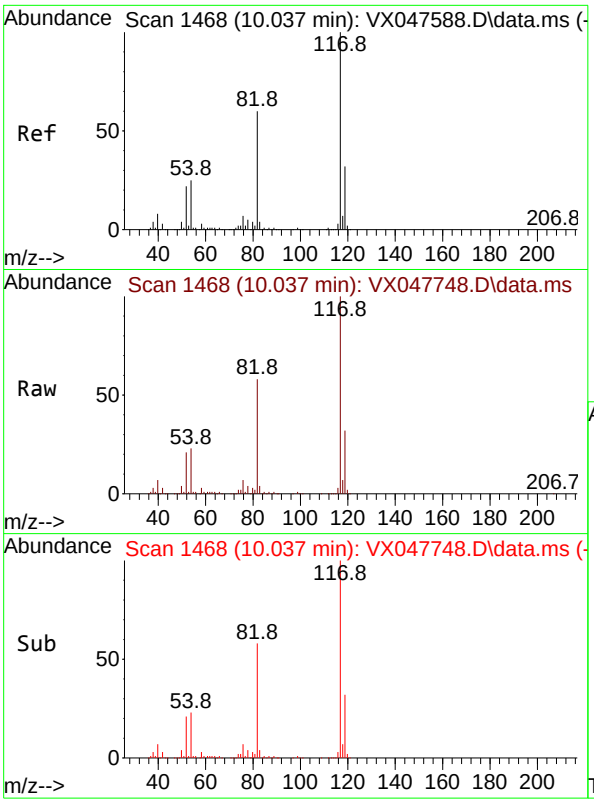


#62
4-Bromofluorobenzene
Concen: 51.072 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 95 Resp: 127747

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.6
176	70.7	0.0	138.4



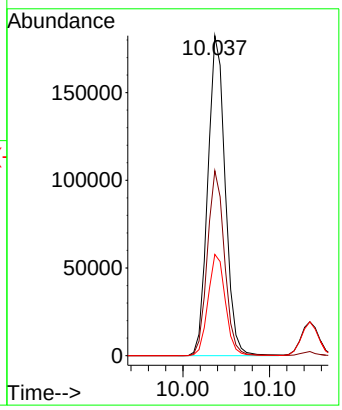


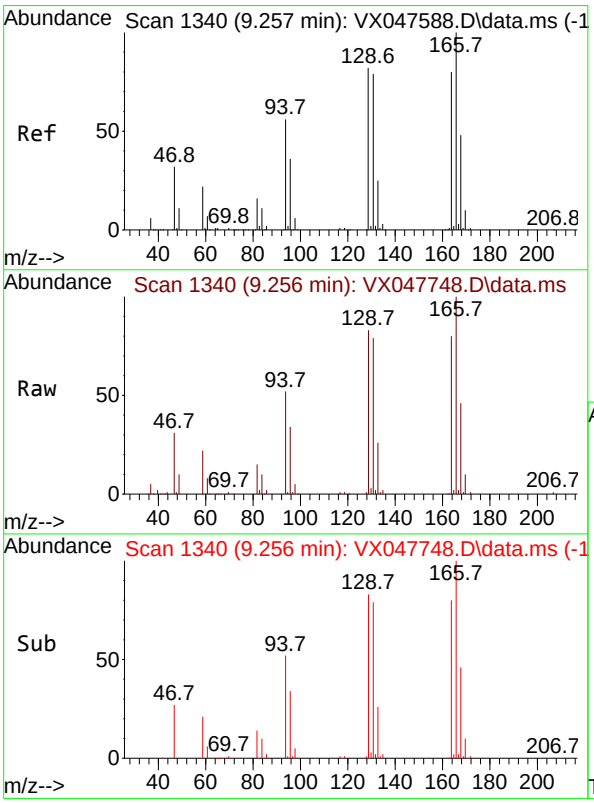
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:117 Resp: 253957

Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.8	71.6
119	31.7	25.2	37.8

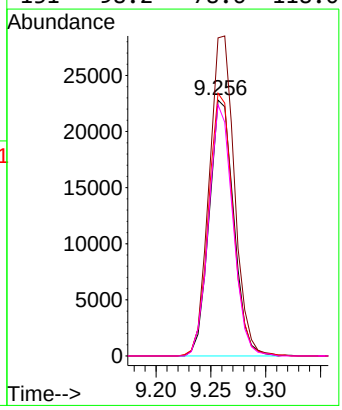


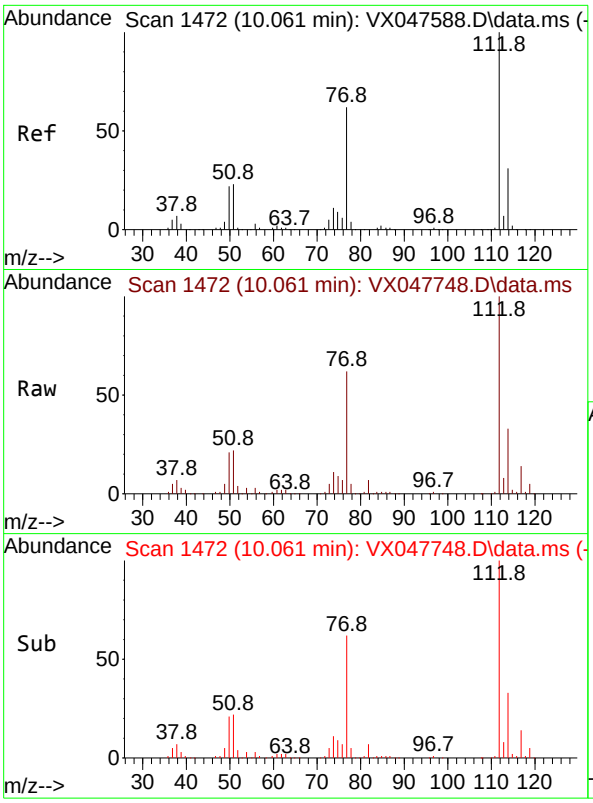


#64
Tetrachloroethene
Concen: 21.442 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:164 Resp: 35498

Ion	Ratio	Lower	Upper
164	100		
166	124.3	100.2	150.2
129	102.7	81.8	122.6
131	98.2	78.6	118.0



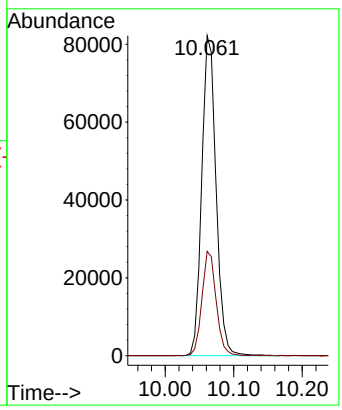


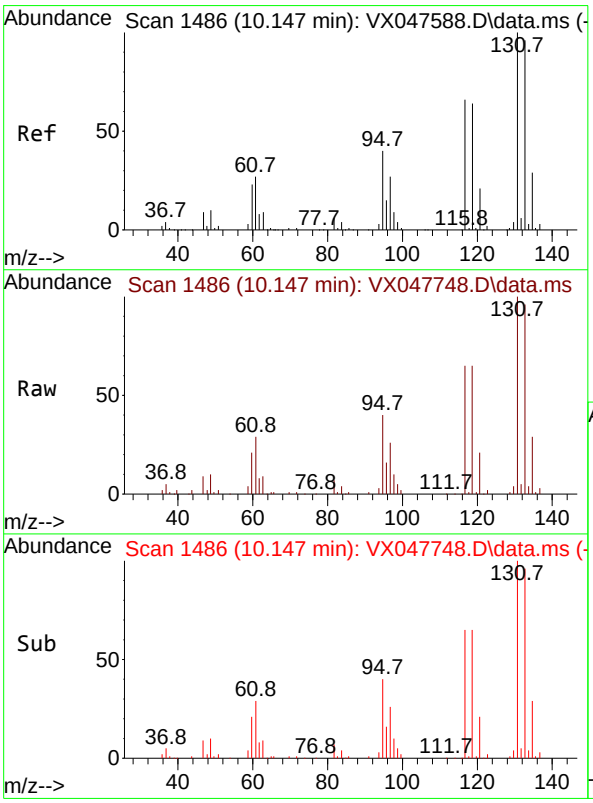
#65
Chlorobenzene
Concen: 20.738 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:112 Resp: 119644

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.1	37.7

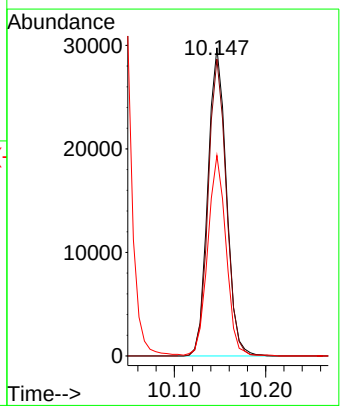


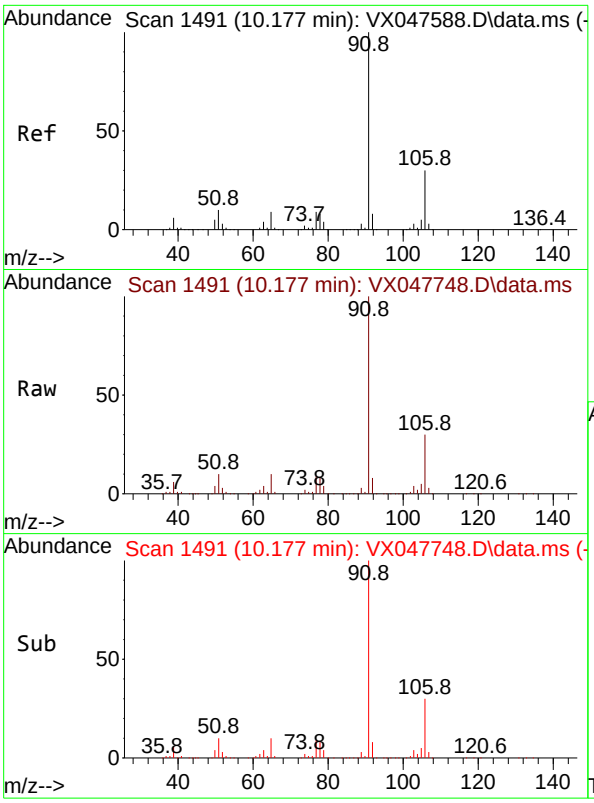


#66
1,1,1,2-Tetrachloroethane
Concen: 21.001 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:131 Resp: 41811

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.3	142.0
119	64.4	32.0	96.0



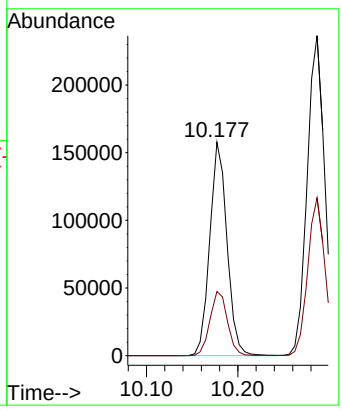


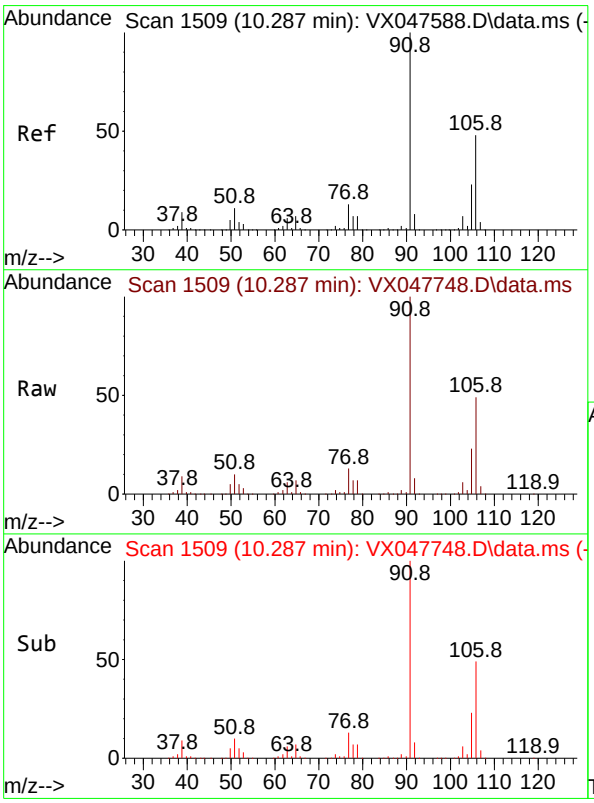
#67
Ethyl Benzene
Concen: 20.757 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 91 Resp: 206630

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5

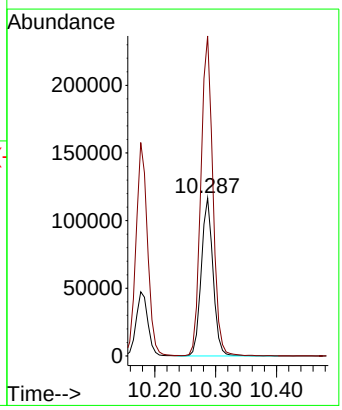


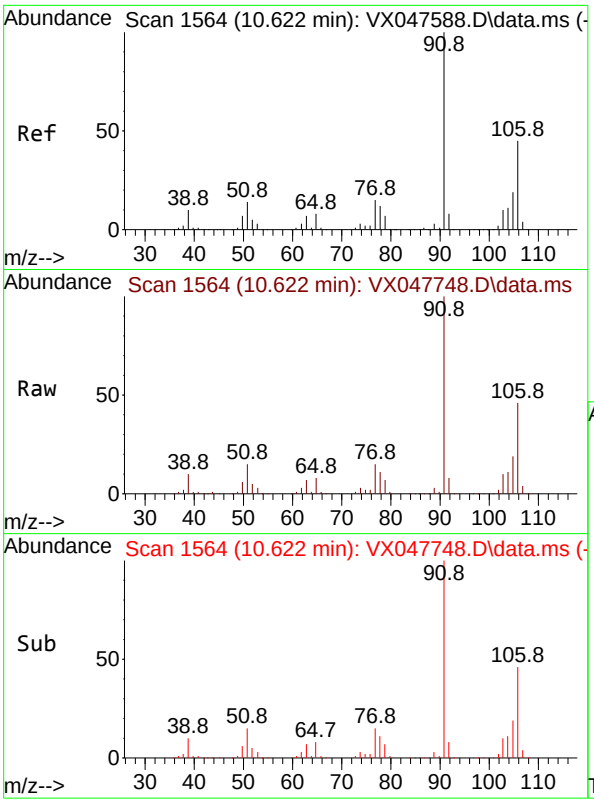


#68
m/p-Xylenes
Concen: 42.264 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:106 Resp: 156597

Ion	Ratio	Lower	Upper
106	100		
91	206.5	167.8	251.8



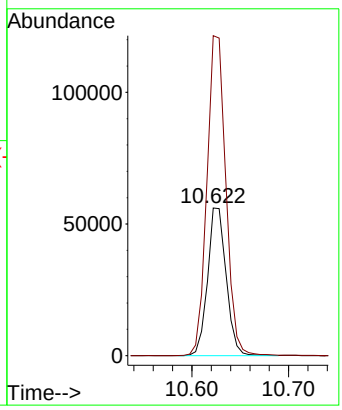


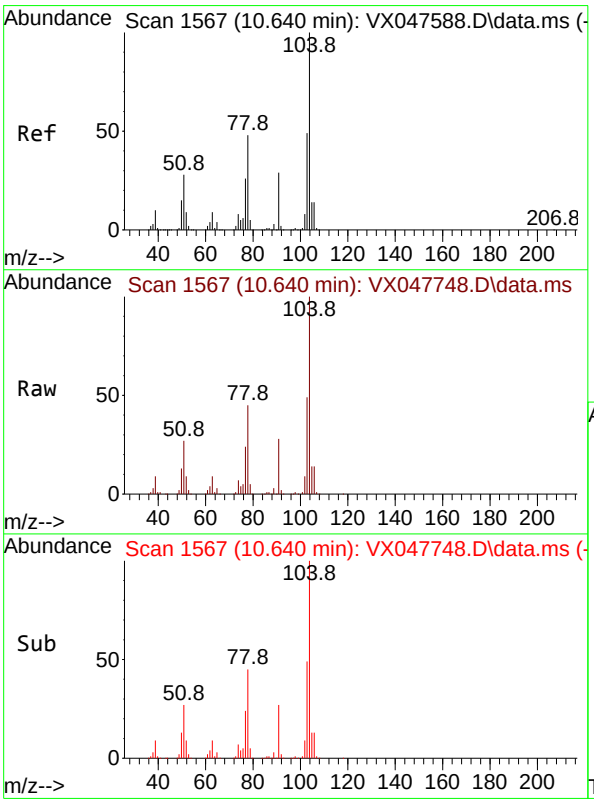
#69
o-Xylene
Concen: 20.945 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:106 Resp: 75062

Ion	Ratio	Lower	Upper
106	100		
91	221.1	111.1	333.4

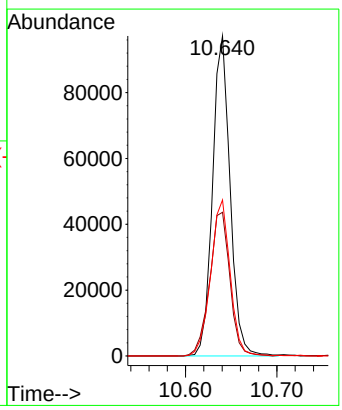


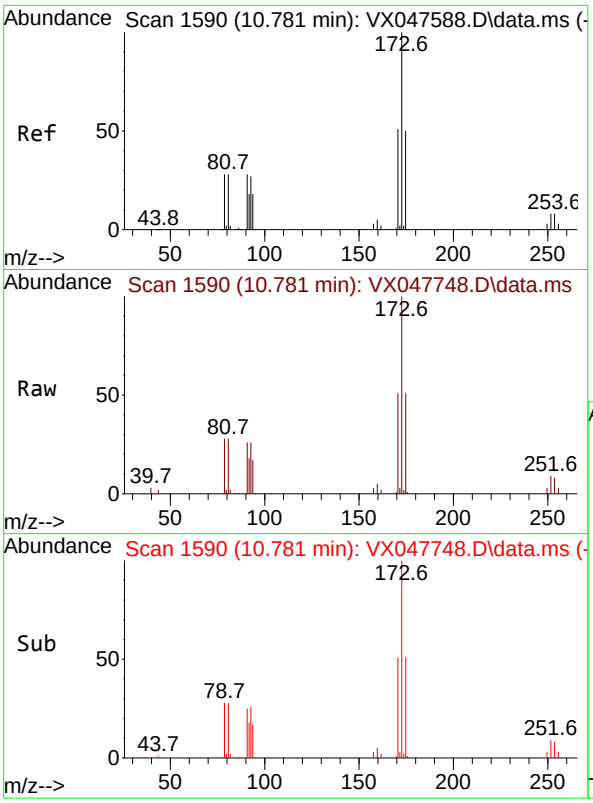


#70
Styrene
Concen: 20.651 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:104 Resp: 129679

Ion	Ratio	Lower	Upper
104	100		
78	51.9	43.1	64.7
103	53.9	43.1	64.7



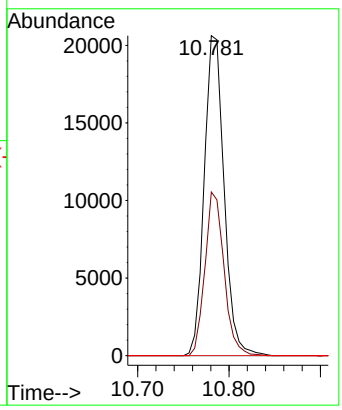


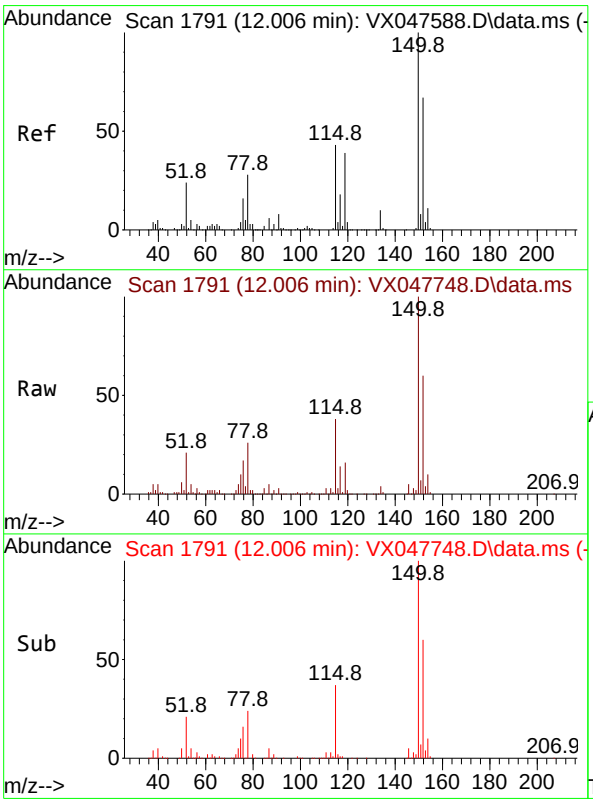
#71
Bromoform
Concen: 20.854 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:173 Resp: 31001

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.9	74.6
254	0.0	0.1	0.1#

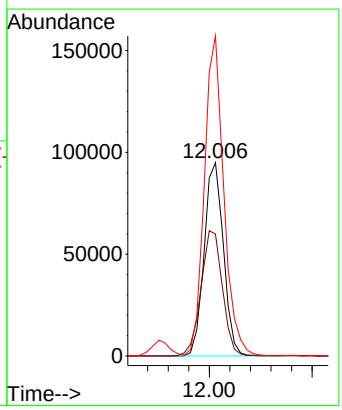


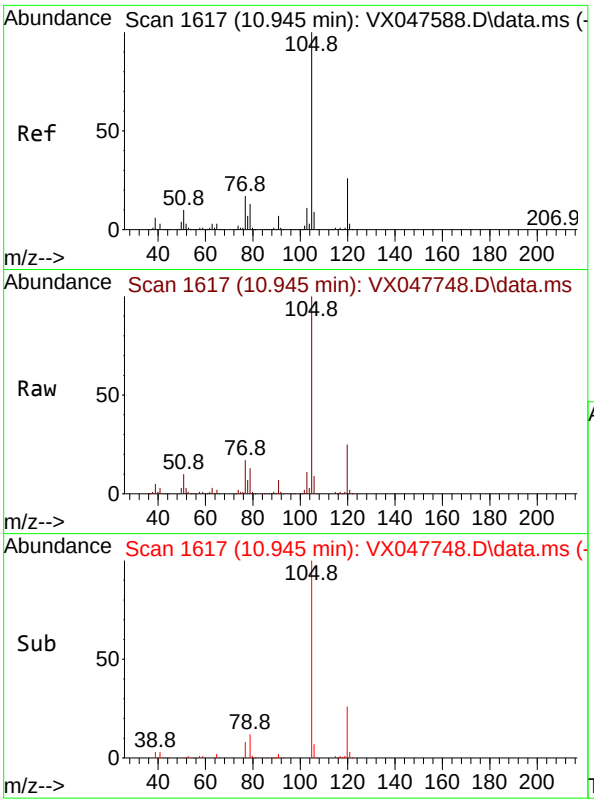


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:152 Resp: 123765

Ion	Ratio	Lower	Upper
152	100		
115	71.9	44.9	134.5
150	166.4	0.0	352.0



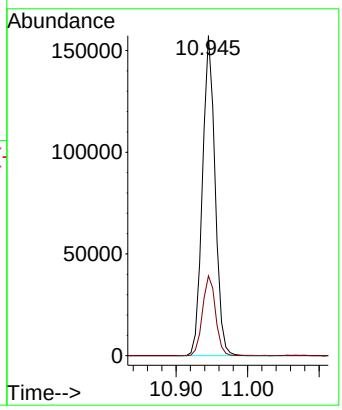


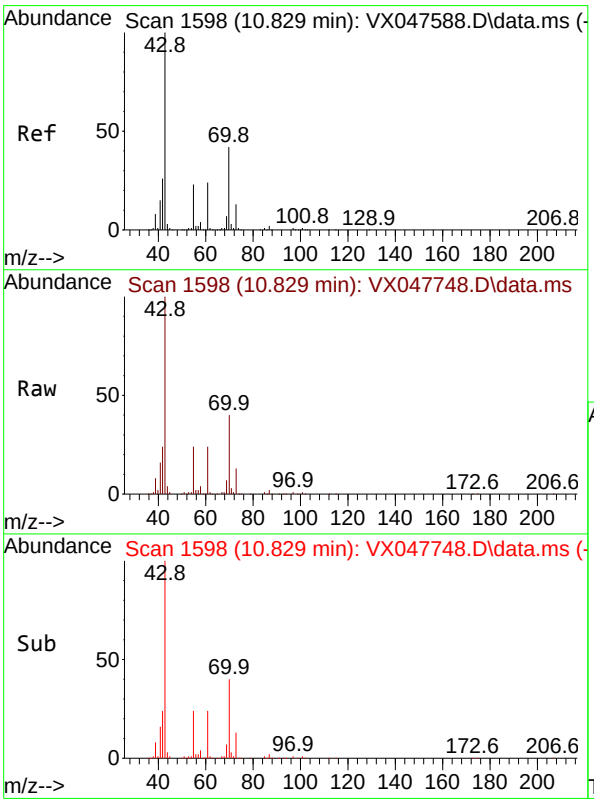
#73
Isopropylbenzene
Concen: 20.548 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:105 Resp: 193342

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

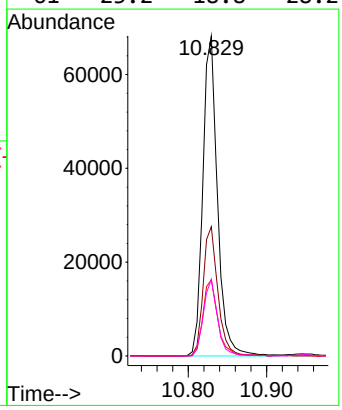


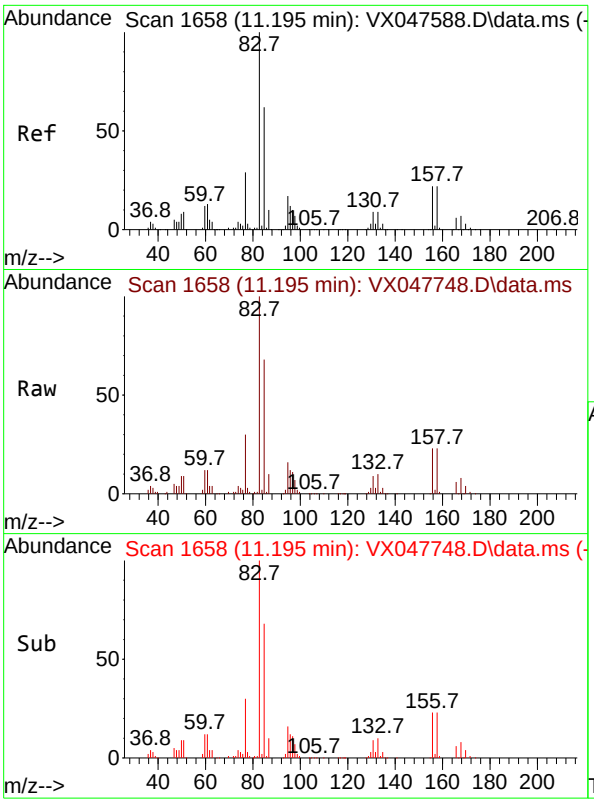


#74
N-amyl acetate
Concen: 20.640 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 43 Resp: 88563

Ion	Ratio	Lower	Upper
43	100		
70	40.6	32.0	48.0
55	24.1	18.9	28.3
61	23.2	18.8	28.2



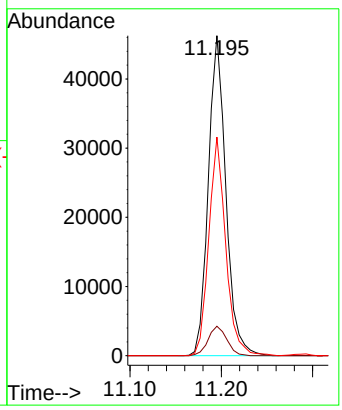


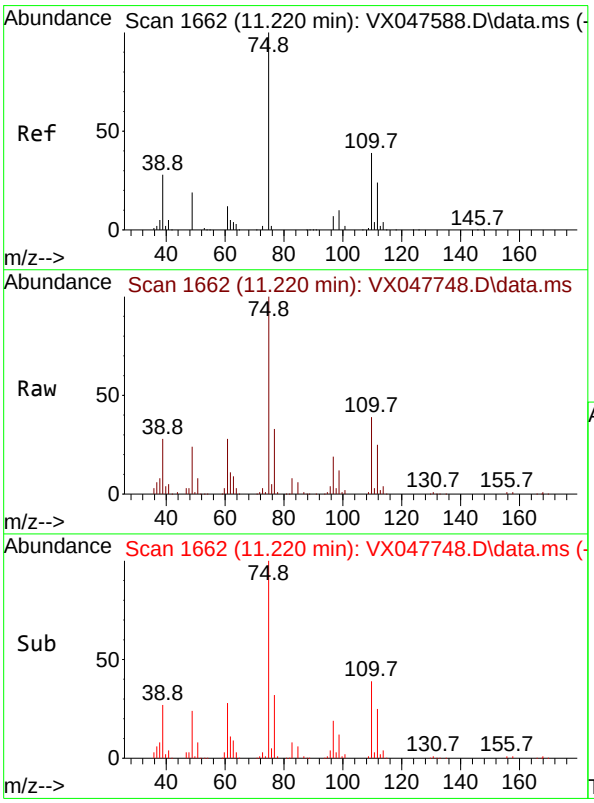
#75
1,1,2,2-Tetrachloroethane
Concen: 21.584 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 83 Resp: 61446

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	66.0	31.6	95.0

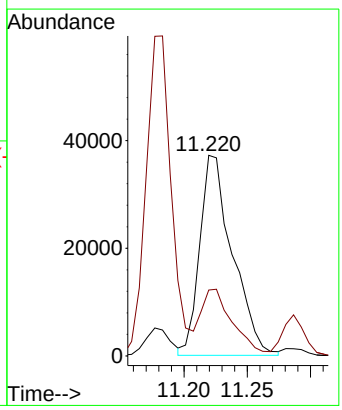


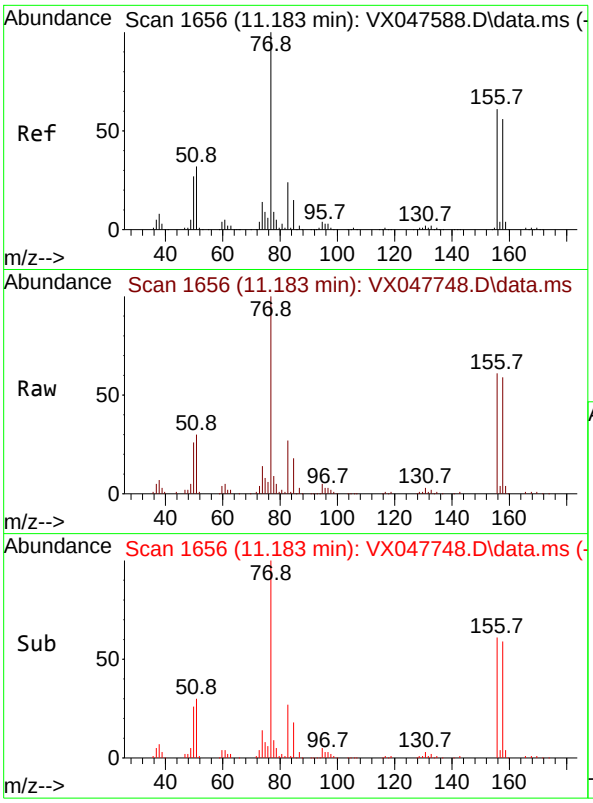


#76
1,2,3-Trichloropropane
Concen: 26.701 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 66910

Ion	Ratio	Lower	Upper
75	100		
77	31.9	18.8	56.4



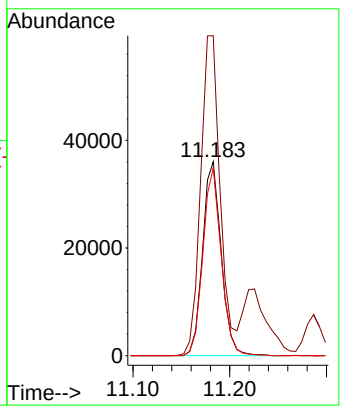


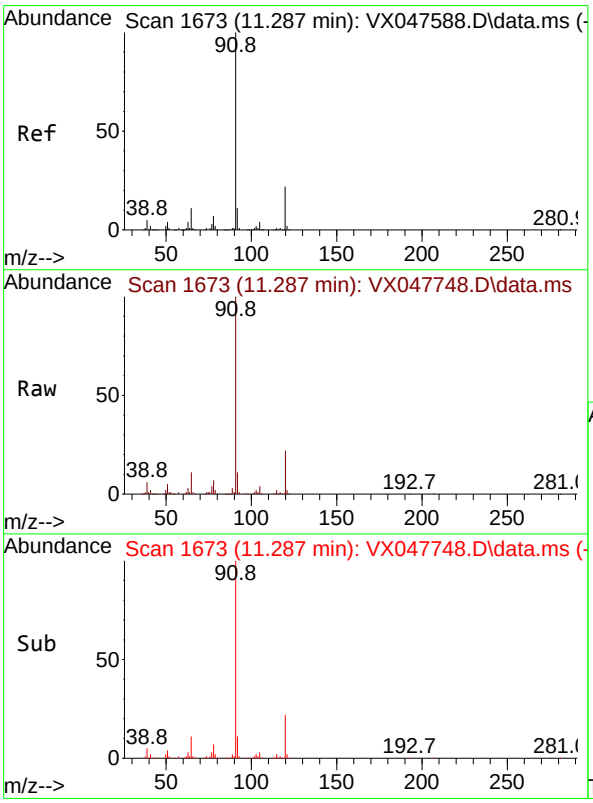
#77
Bromobenzene
Concen: 20.791 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:156 Resp: 48182

Ion	Ratio	Lower	Upper
156	100		
77	173.7	89.7	269.1
158	95.4	47.9	143.6

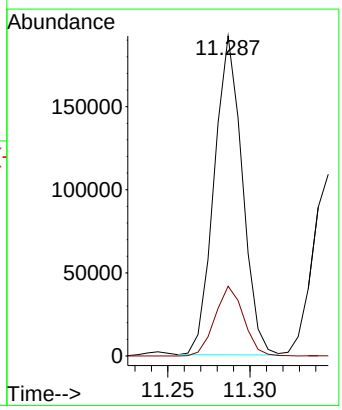


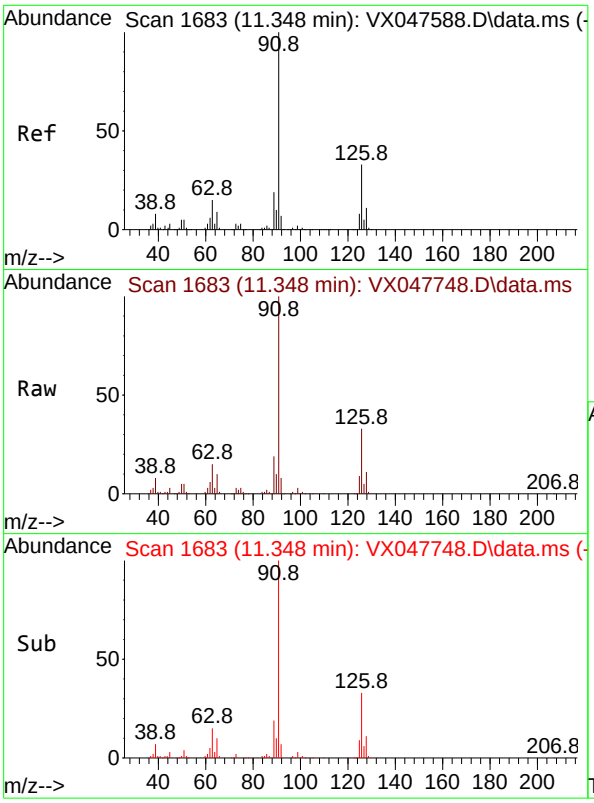


#78
n-propylbenzene
Concen: 20.542 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 228489

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1



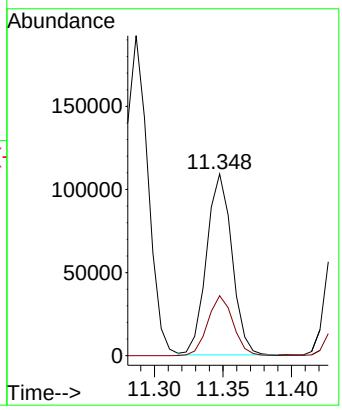


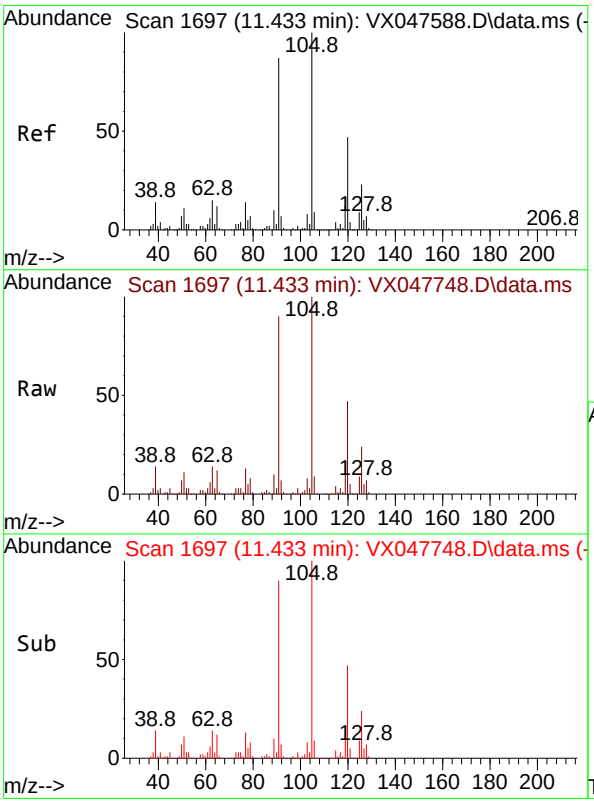
#79
2-Chlorotoluene
Concen: 20.647 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 91 Resp: 140664

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.1	48.3

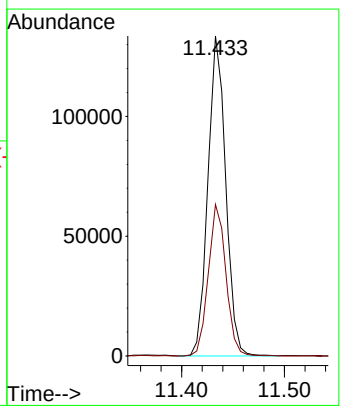


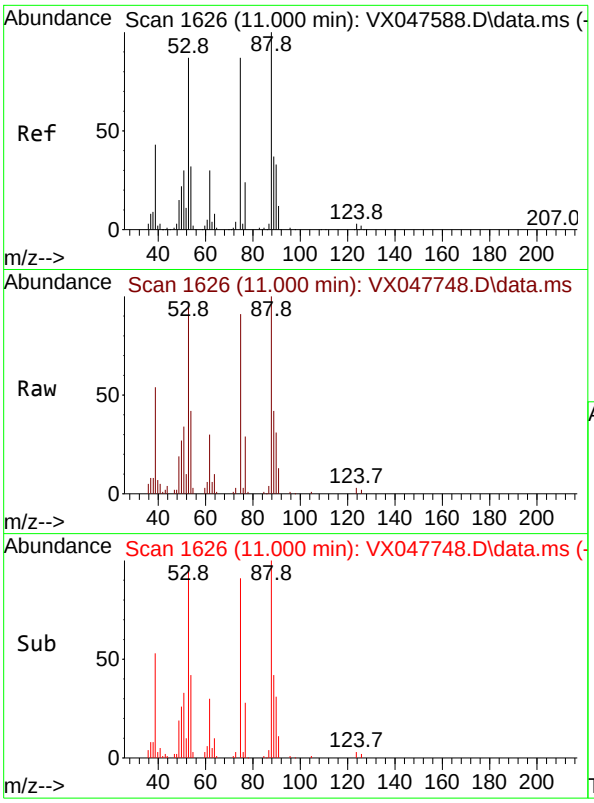


#80
1,3,5-Trimethylbenzene
Concen: 20.764 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 160516

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.6	70.8



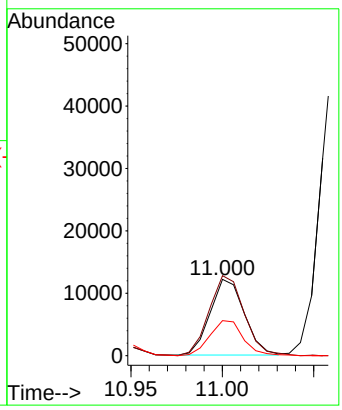


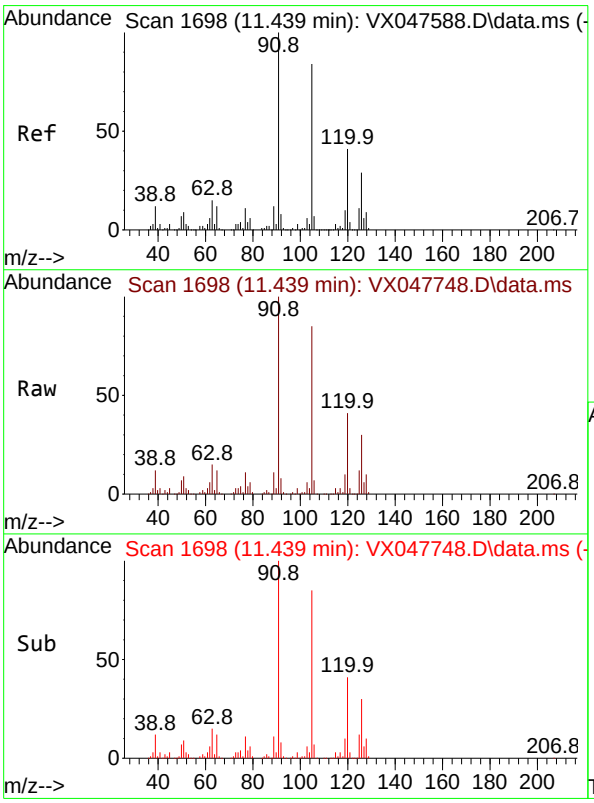
#81
trans-1,4-Dichloro-2-butene
Concen: 16.123 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 75 Resp: 15843

Ion	Ratio	Lower	Upper
75	100		
53	108.2	83.4	125.2
89	45.5	36.3	54.5

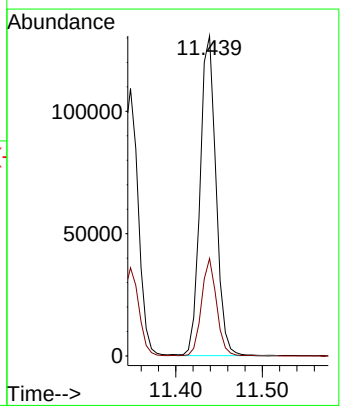


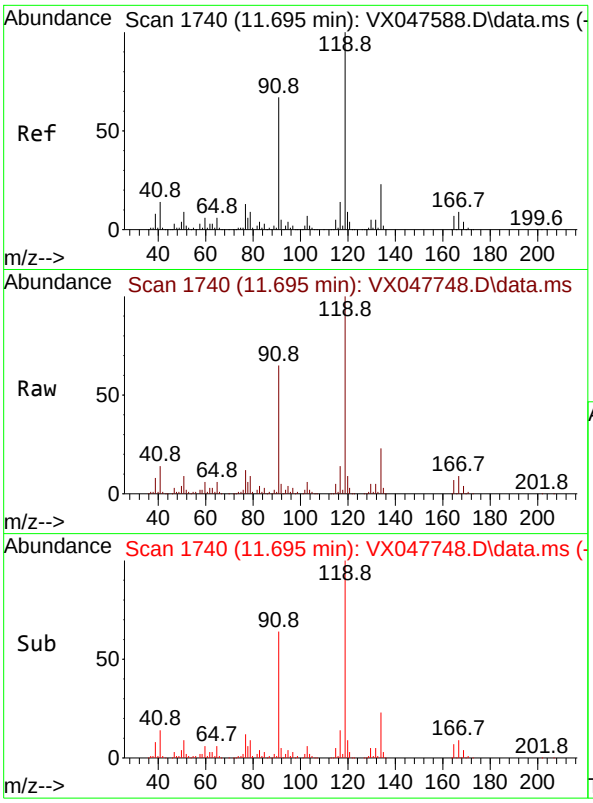


#82
4-Chlorotoluene
Concen: 20.635 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 91 Resp: 166032

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.2	42.6



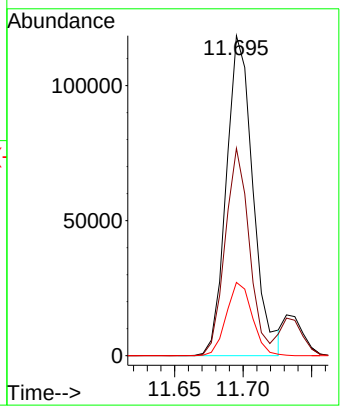


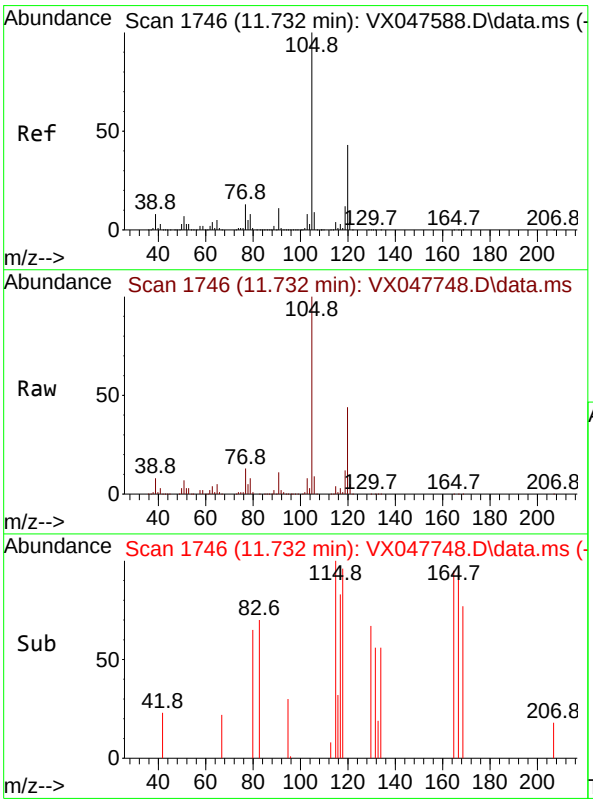
#83
tert-Butylbenzene
Concen: 20.248 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:119 Resp: 160239

Ion	Ratio	Lower	Upper
119	100		
91	59.0	29.6	88.8
134	22.2	11.0	33.0

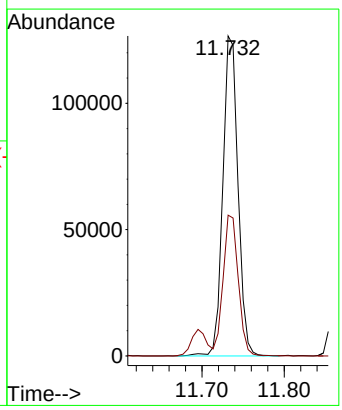


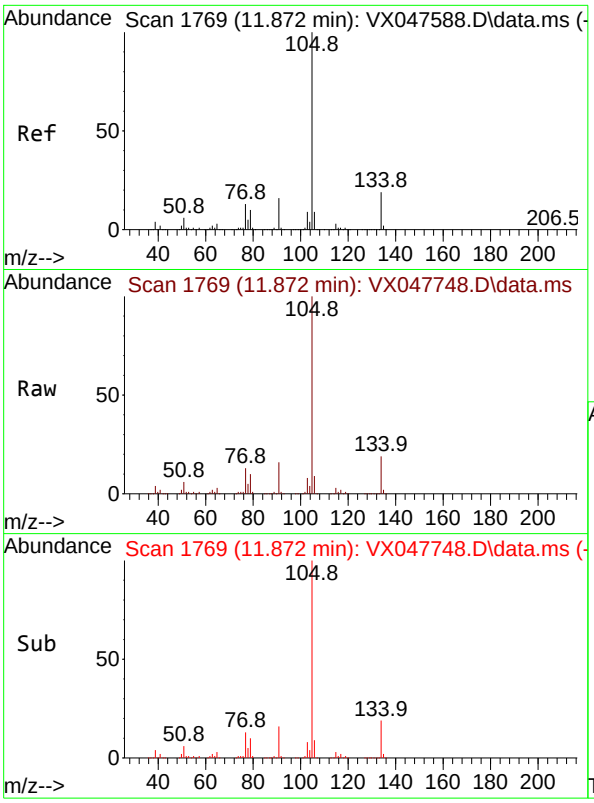


#84
1,2,4-Trimethylbenzene
Concen: 20.665 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:105 Resp: 161967

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1



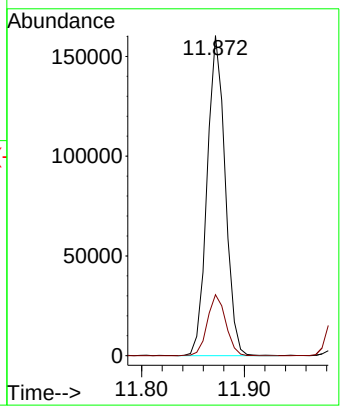


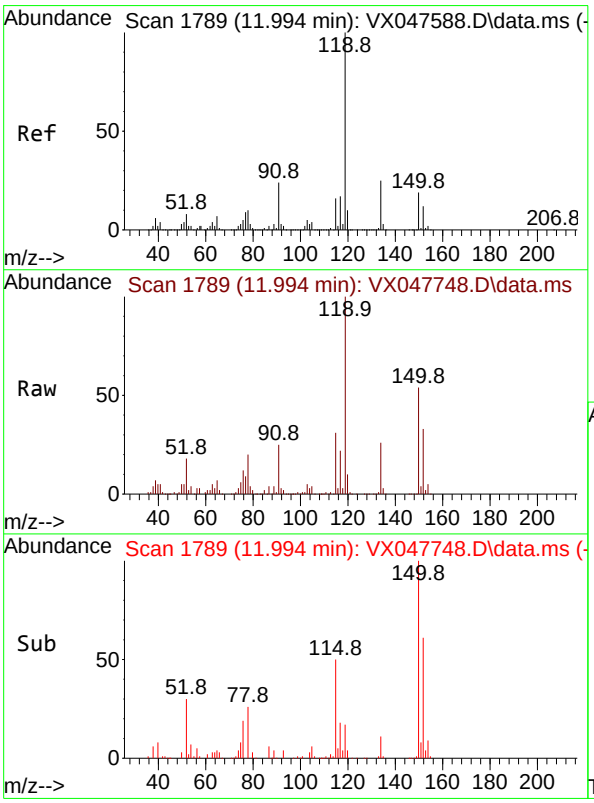
#85
sec-Butylbenzene
Concen: 20.870 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:105 Resp: 196176

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

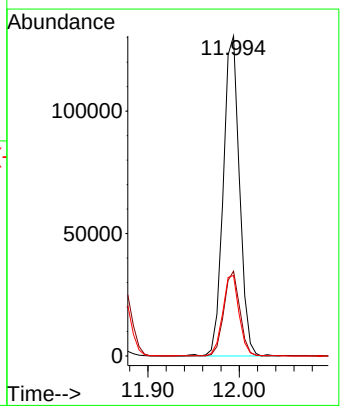


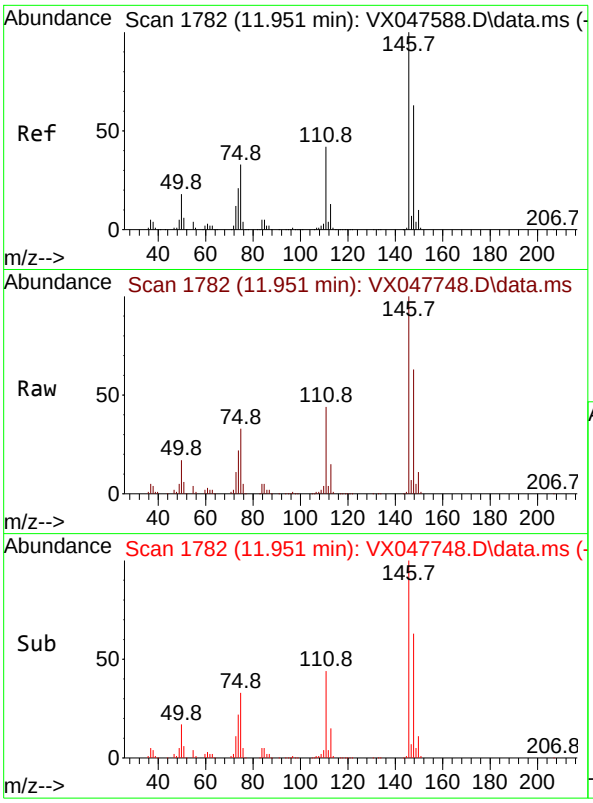


#86
p-Isopropyltoluene
Concen: 20.326 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:119 Resp: 161751

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	25.6	12.6	37.6



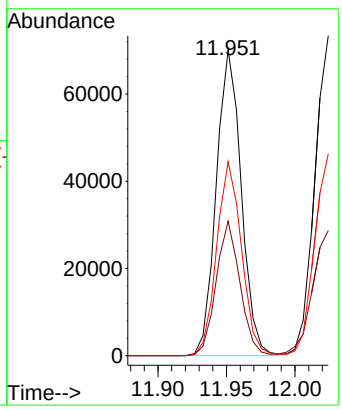


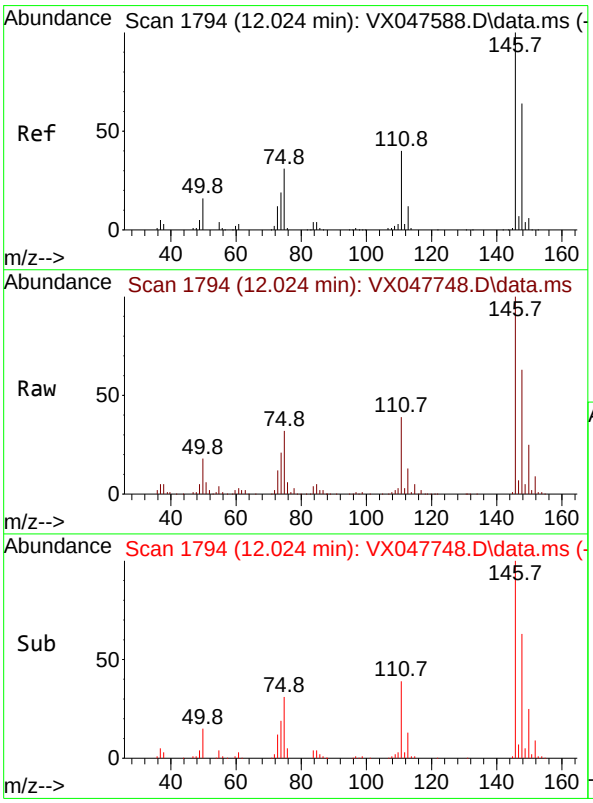
#87
1,3-Dichlorobenzene
Concen: 20.598 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:146 Resp: 88665

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	63.3	32.0	96.0

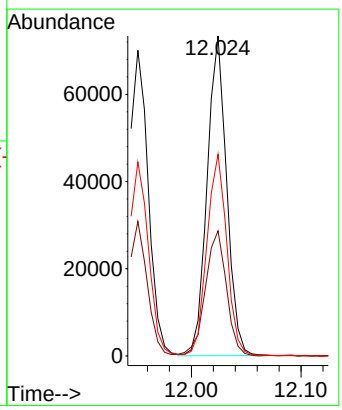


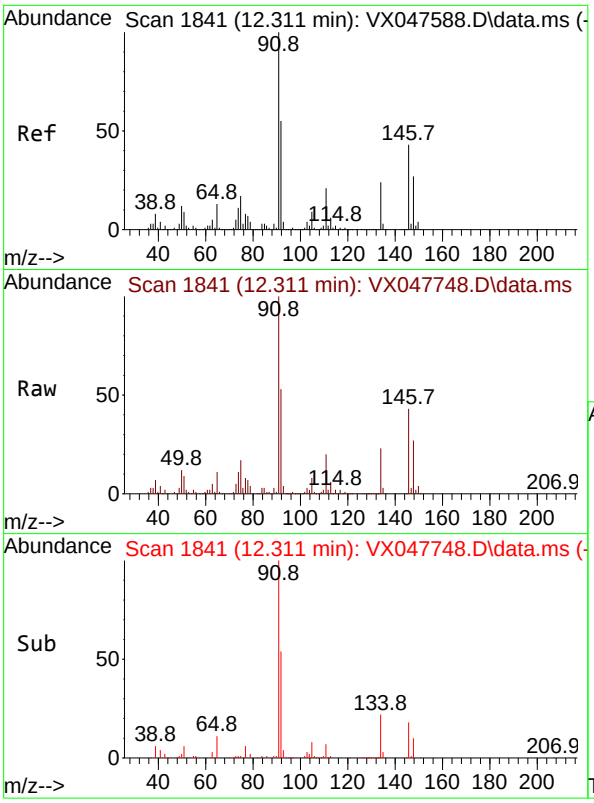


#88
1,4-Dichlorobenzene
Concen: 20.539 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:146 Resp: 90738

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.4
148	64.3	31.7	95.1



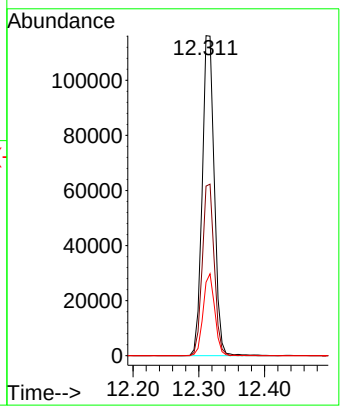


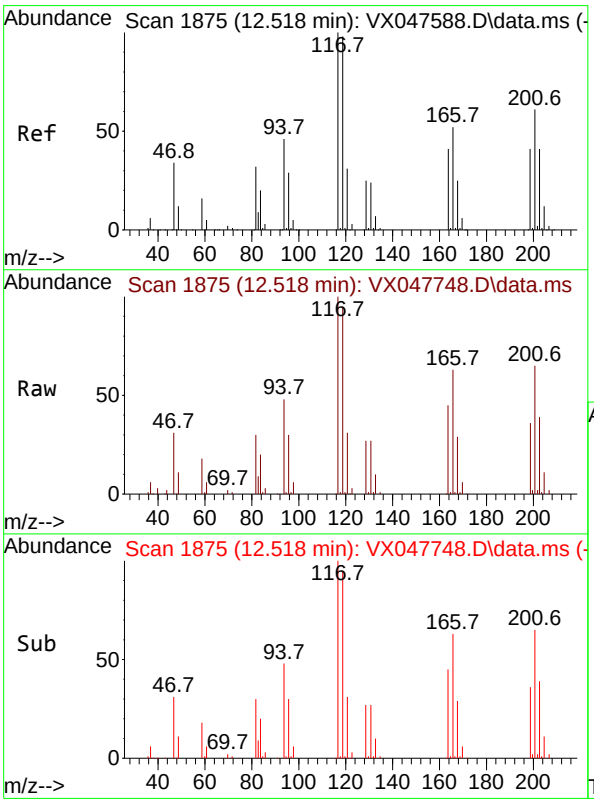
#89
n-Butylbenzene
Concen: 20.116 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion: 91 Resp: 148126

Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.6	82.7
134	24.7	12.6	37.8

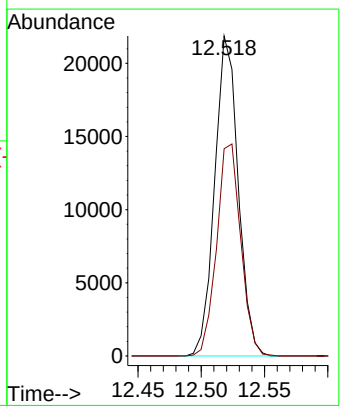


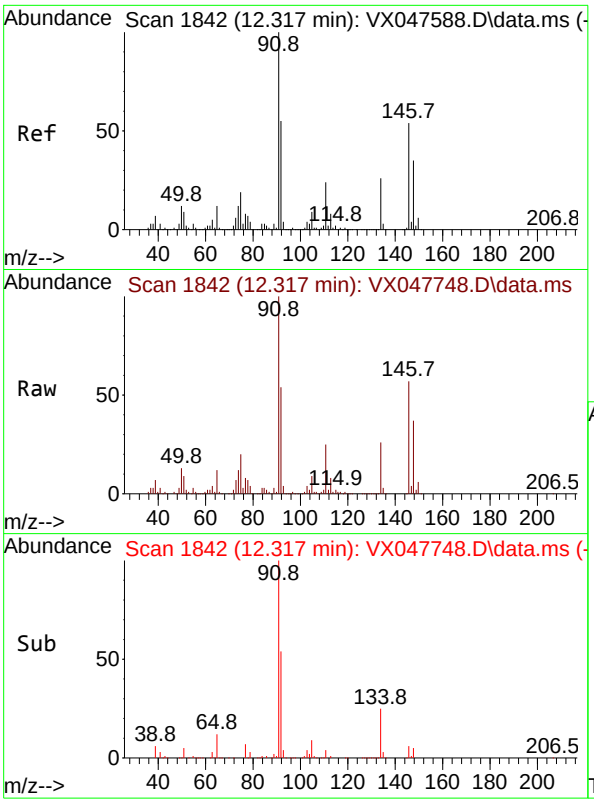


#90
Hexachloroethane
Concen: 20.199 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:117 Resp: 28222

Ion	Ratio	Lower	Upper
117	100		
201	68.0	34.2	102.5



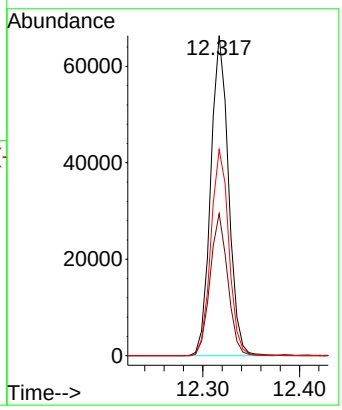


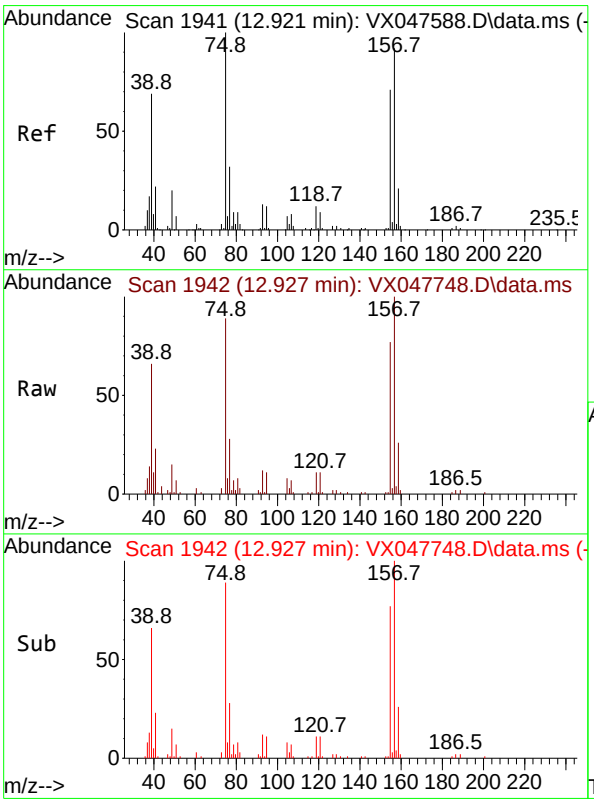
#91
1,2-Dichlorobenzene
Concen: 20.655 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:146 Resp: 84704

Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.2	66.6
148	65.0	31.8	95.4

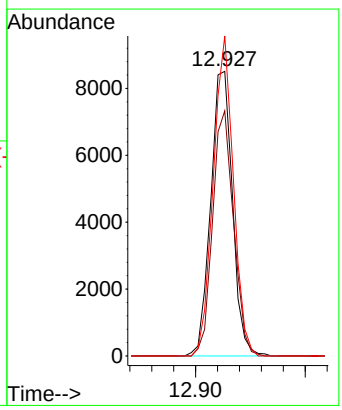


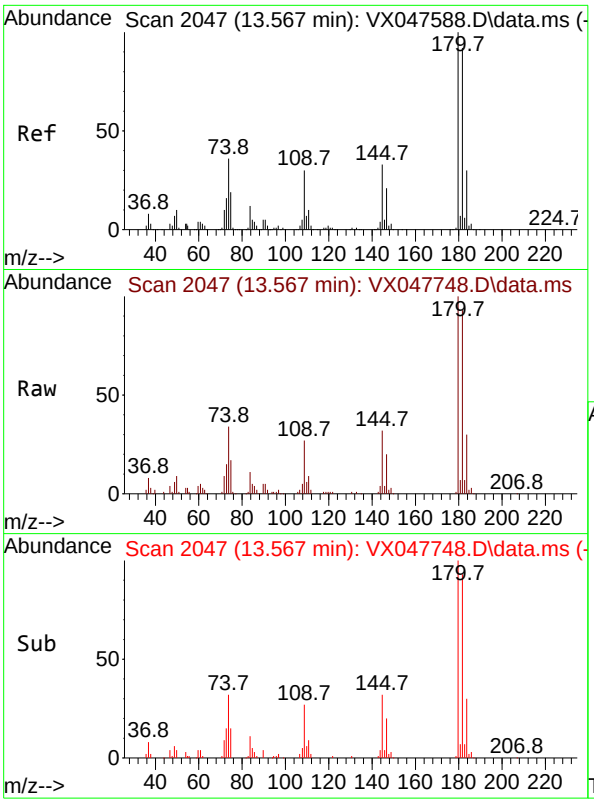


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.397 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion: 75 Resp: 11756

Ion	Ratio	Lower	Upper
75	100		
155	82.8	37.7	113.1
157	104.0	49.8	149.4



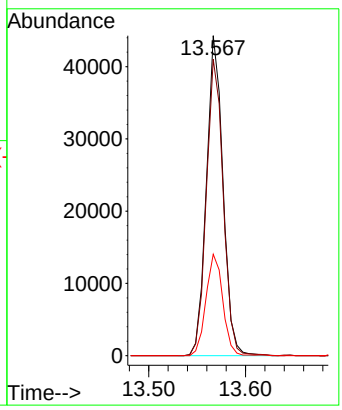


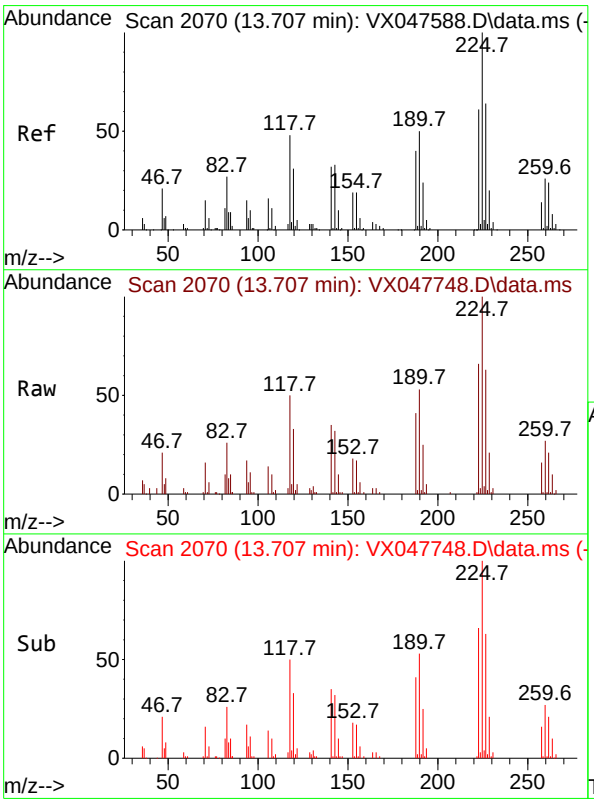
#93
1,2,4-Trichlorobenzene
Concen: 19.802 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:180 Resp: 52777

Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.6	139.8
145	32.3	16.4	49.1

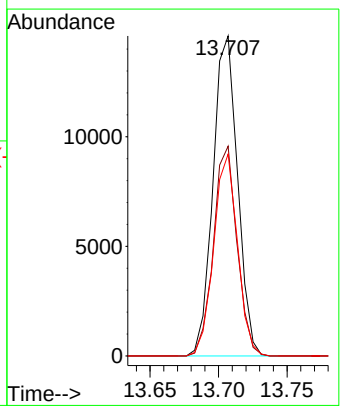


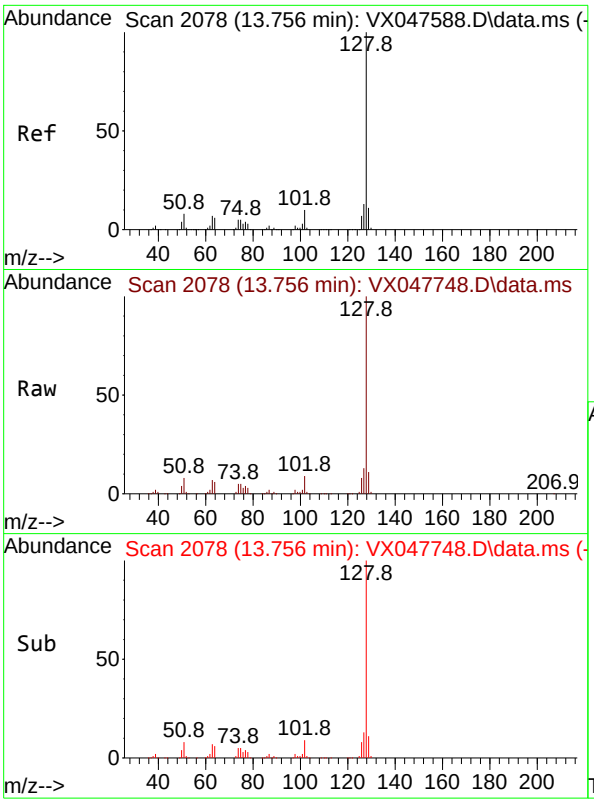


#94
Hexachlorobutadiene
Concen: 20.094 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:225 Resp: 18191

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.7	95.1
227	61.1	32.0	96.0



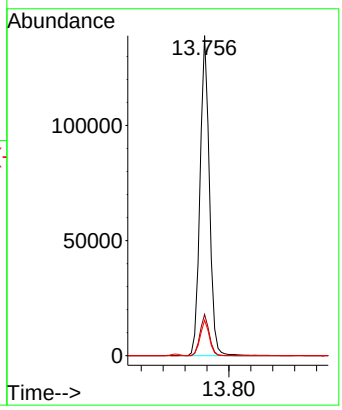


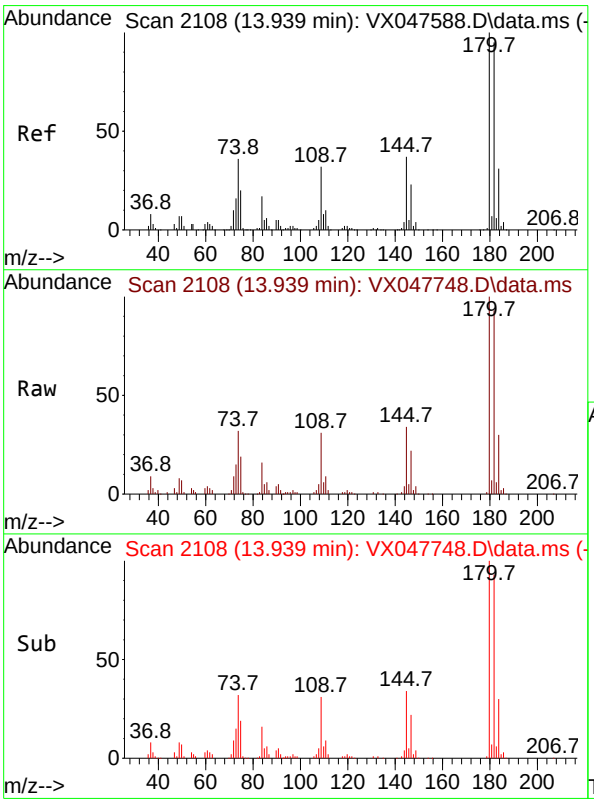
#95
Naphthalene
Concen: 20.298 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Instrument :
MSVOA_X
ClientSampleId :
VX0923WBS03

Tgt Ion:128 Resp: 164732

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.7	8.8	13.2

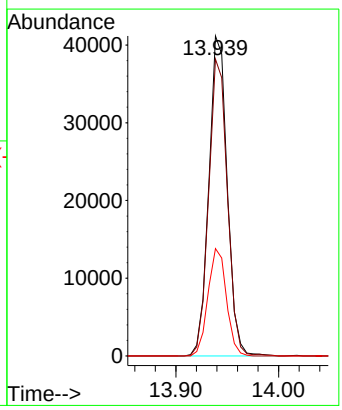




#96
1,2,3-Trichlorobenzene
Concen: 20.708 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047748.D
Acq: 24 Sep 2025 03:53

Tgt Ion:180 Resp: 51341

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.6	142.8
145	33.5	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	136245	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	254252	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	232007	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	113030	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	117949	54.388	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.780%			
35) Dibromofluoromethane	5.373	113	92049	53.983	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.960%			
50) Toluene-d8	8.635	98	314422	53.290	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.580%			
62) 4-Bromofluorobenzene	11.061	95	120804	53.949	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	80794	57.267	ug/l	100
3) Chloromethane	1.301	50	100073	53.970	ug/l	97
4) Vinyl Chloride	1.380	62	98905	54.491	ug/l	99
5) Bromomethane	1.611	94	63064	54.792	ug/l	99
6) Chloroethane	1.691	64	63530	52.368	ug/l	98
7) Trichlorofluoromethane	1.892	101	138008	51.208	ug/l	99
8) Diethyl Ether	2.136	74	59838	54.277	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	79844	50.667	ug/l	99
10) Methyl Iodide	2.453	142	124745	50.757	ug/l	100
11) Tert butyl alcohol	2.947	59	65972	273.139	ug/l	100
12) 1,1-Dichloroethene	2.325	96	85914	53.075	ug/l	97
13) Acrolein	2.233	56	62008	278.592	ug/l	97
14) Allyl chloride	2.666	41	160323	47.997	ug/l	95
15) Acrylonitrile	3.056	53	274545	306.873	ug/l	99
16) Acetone	2.373	43	219982	233.292	ug/l	97
17) Carbon Disulfide	2.514	76	234371	52.888	ug/l	99
18) Methyl Acetate	2.697	43	128034	61.011	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	320438	54.228	ug/l	98
20) Methylene Chloride	2.788	84	106137	53.176	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	93317	53.545	ug/l	96
22) Diisopropyl ether	3.751	45	350616	54.161	ug/l	86
23) Vinyl Acetate	3.715	43	1442450	278.405	ug/l	100
24) 1,1-Dichloroethane	3.605	63	182725	53.106	ug/l	99
25) 2-Butanone	4.538	43	340369	289.378	ug/l	97
26) 2,2-Dichloropropane	4.465	77	70096	24.508	ug/l	93
27) cis-1,2-Dichloroethene	4.483	96	113757	53.299	ug/l	92
28) Bromochloromethane	4.885	49	80547	53.622	ug/l	99
29) Tetrahydrofuran	4.989	42	220667	311.862	ug/l	100
30) Chloroform	5.080	83	187454	53.913	ug/l	100
31) Cyclohexane	5.458	56	145273	50.693	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	154526	52.395	ug/l	99
36) 1,1-Dichloropropene	5.678	75	120688	48.437	ug/l	99
37) Ethyl Acetate	4.702	43	149048	55.869	ug/l	98
38) Carbon Tetrachloride	5.666	117	130818	48.322	ug/l	99
39) Methylcyclohexane	7.367	83	133414	47.171	ug/l	98
40) Benzene	6.025	78	389912	51.523	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	77979	56.618	ug/l	99
42) 1,2-Dichloroethane	6.074	62	143000	49.663	ug/l	98
43) Isopropyl Acetate	6.324	43	235980	53.933	ug/l	99
44) Trichloroethene	7.110	130	94203	51.488	ug/l	93
45) 1,2-Dichloropropane	7.415	63	102032	52.653	ug/l	99
46) Dibromomethane	7.568	93	74570	52.881	ug/l	98
47) Bromodichloromethane	7.805	83	150372	51.676	ug/l	97
48) Methyl methacrylate	7.677	41	118513	54.378	ug/l	97
49) 1,4-Dioxane	7.647	88	30387	1379.627	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	718573	296.207	ug/l	100
52) Toluene	8.702	92	239637	51.397	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	137402	46.292	ug/l	97
54) cis-1,3-Dichloropropene	8.354	75	149149	47.013	ug/l	100
55) 1,1,2-Trichloroethane	9.134	97	96376	53.607	ug/l	97
56) Ethyl methacrylate	9.104	69	158357	56.087	ug/l	96
57) 1,3-Dichloropropane	9.293	76	167428	54.213	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	402380	294.817	ug/l	100
59) 2-Hexanone	9.415	43	503351	288.900	ug/l	98
60) Dibromochloromethane	9.506	129	111057	53.612	ug/l	98
61) 1,2-Dibromoethane	9.592	107	103205	56.360	ug/l	100
64) Tetrachloroethene	9.256	164	78844	52.130	ug/l	96
65) Chlorobenzene	10.061	112	265659	50.402	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.146	131	93007	51.137	ug/l	99
67) Ethyl Benzene	10.177	91	452093	49.712	ug/l	100
68) m/p-Xylenes	10.287	106	343642	101.520	ug/l	97
69) o-Xylene	10.628	106	167926	51.290	ug/l	98
70) Styrene	10.640	104	296373	51.662	ug/l	98
71) Bromoform	10.787	173	73291	53.967	ug/l	98
73) Isopropylbenzene	10.945	105	417583	48.594	ug/l	99
74) N-amyl acetate	10.829	43	207812	53.032	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	142889	54.960	ug/l	100
76) 1,2,3-Trichloropropane	11.219	75	149457	65.308	ug/l	89
77) Bromobenzene	11.183	156	107213	50.657	ug/l	97
78) n-propylbenzene	11.287	91	498719	49.095	ug/l	99
79) 2-Chlorotoluene	11.347	91	304904	49.006	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	345988	49.006	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	35912	40.018	ug/l	99
82) 4-Chlorotoluene	11.439	91	357733	48.683	ug/l	99
83) tert-Butylbenzene	11.695	119	346038	47.879	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	353276	49.355	ug/l	100
85) sec-Butylbenzene	11.872	105	415999	48.459	ug/l	100
86) p-Isopropyltoluene	11.994	119	348647	47.972	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	195732	49.790	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	195422	48.435	ug/l	99
89) n-Butylbenzene	12.317	91	317773	47.254	ug/l	98
90) Hexachloroethane	12.518	117	62783	49.203	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	191705	51.187	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	28696	54.516	ug/l	93
93) 1,2,4-Trichlorobenzene	13.567	180	119753	49.199	ug/l	98
94) Hexachlorobutadiene	13.707	225	39271	47.499	ug/l	99
95) Naphthalene	13.756	128	400255	54.002	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	118573	52.369	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

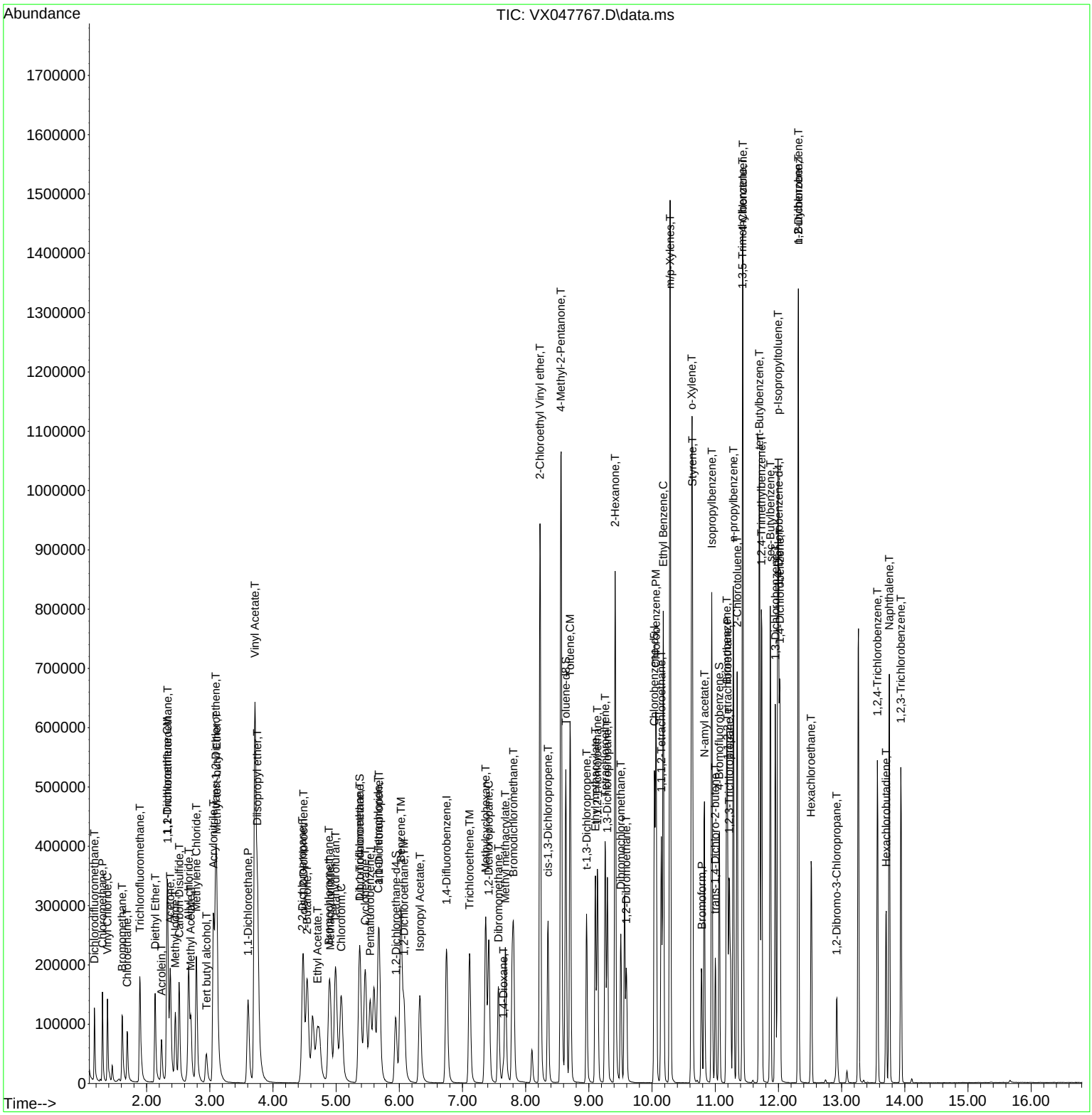
(#) = qualifier out of range (m) = manual integration (+) = signals summed

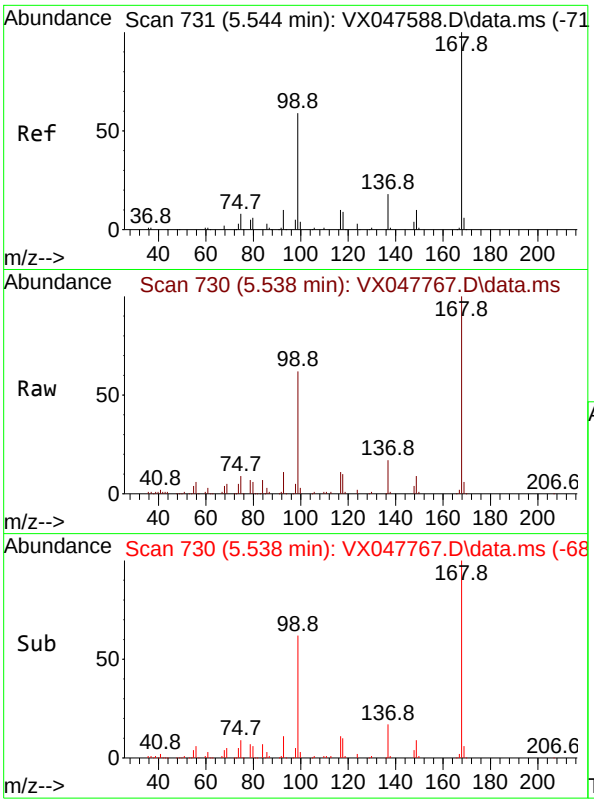
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
Data File : VX047767.D
Acq On : 24 Sep 2025 10:50
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 56 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Sep 25 01:23:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



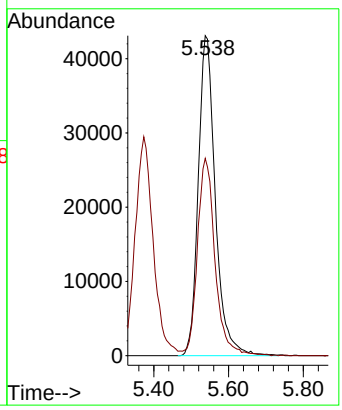


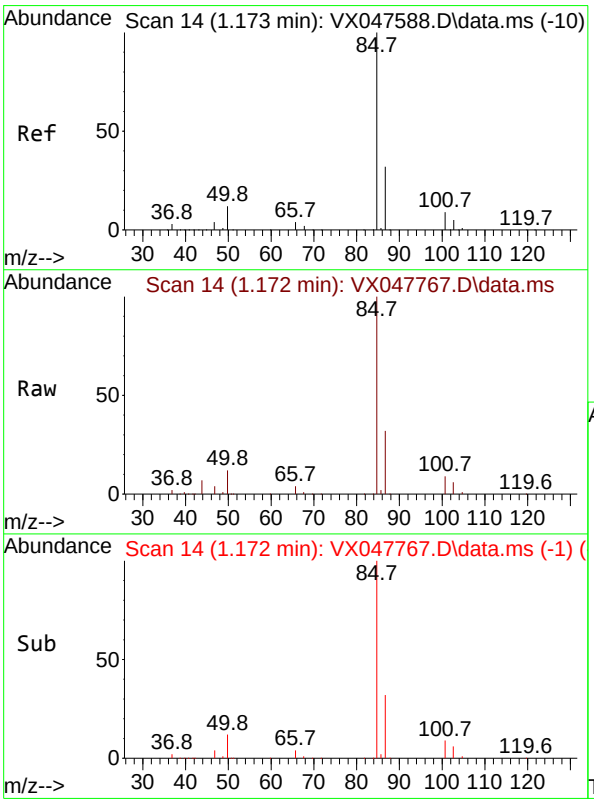
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 136245

Ion	Ratio	Lower	Upper
168	100		
99	61.6	48.8	73.2

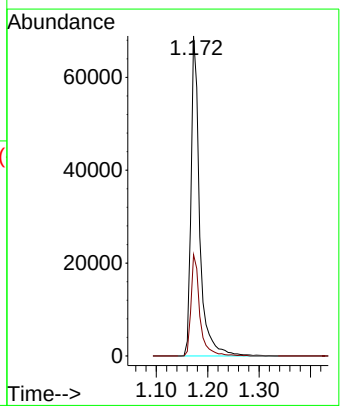


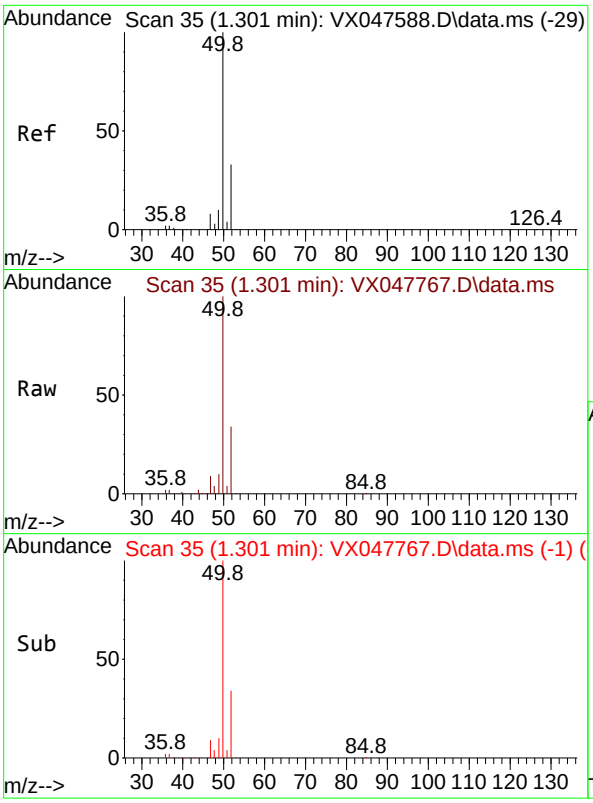


#2
Dichlorodifluoromethane
Concen: 57.267 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 85 Resp: 80794

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3



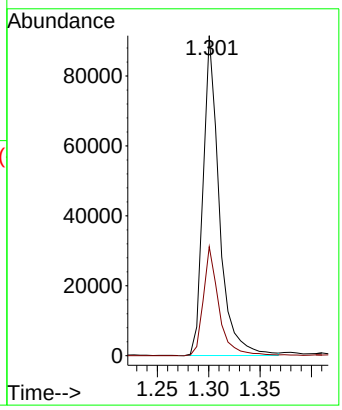


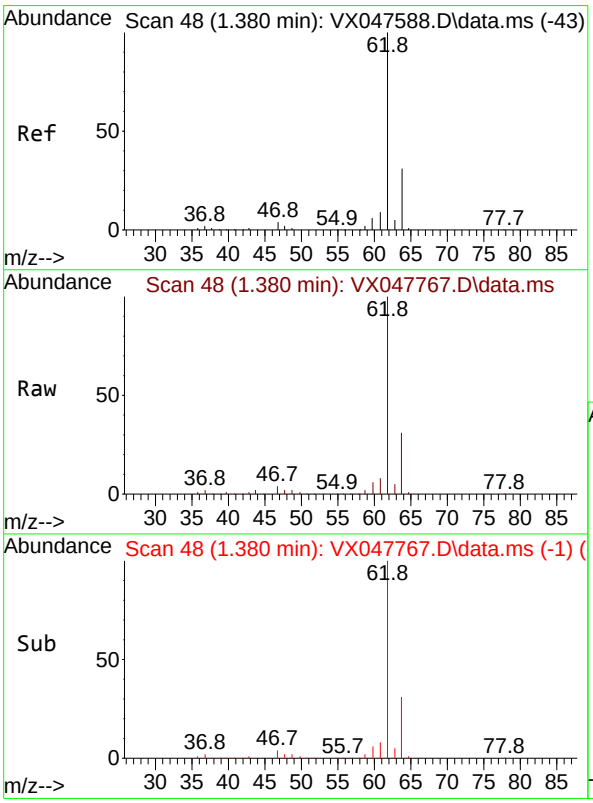
#3
Chloromethane
Concen: 53.970 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 100073

Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.1	39.1

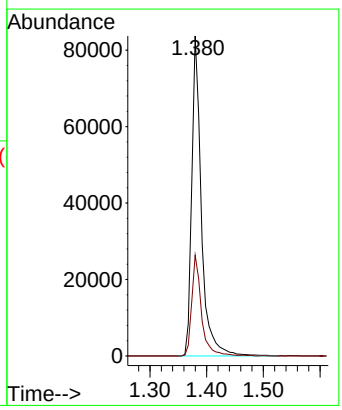


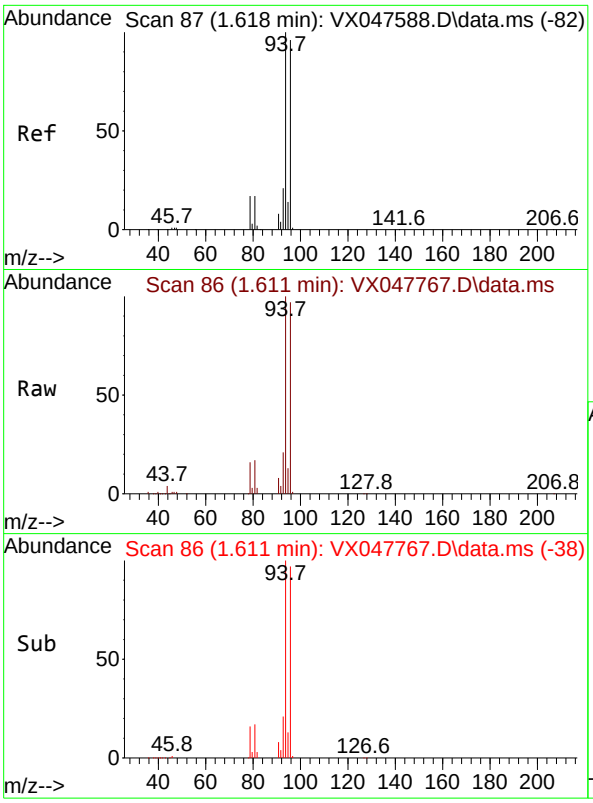


#4
Vinyl Chloride
Concen: 54.491 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 62 Resp: 98905

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.9	37.3



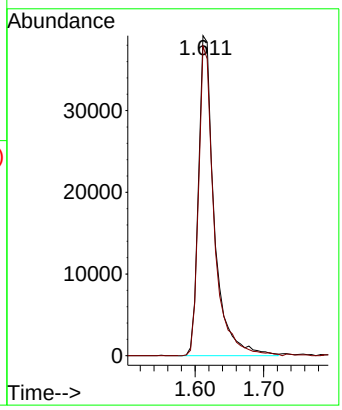


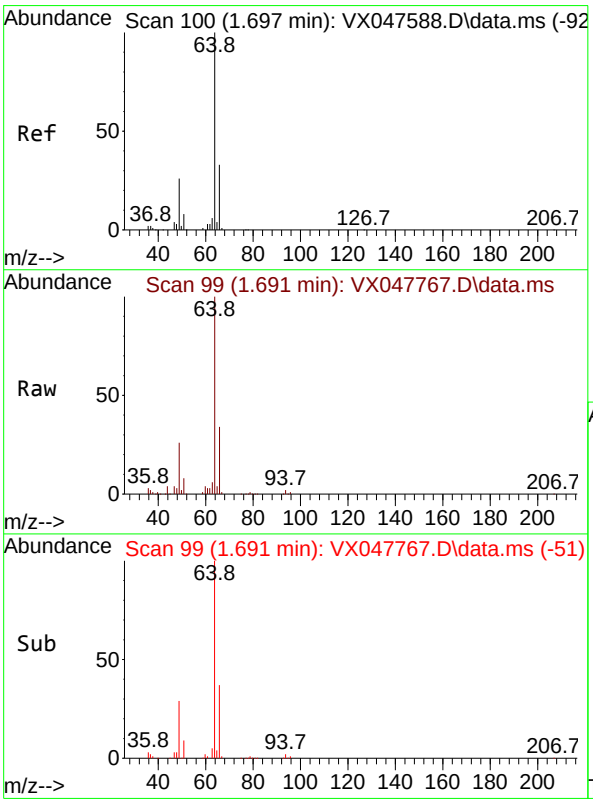
#5
Bromomethane
Concen: 54.792 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 63064

Ion	Ratio	Lower	Upper
94	100		
96	96.6	76.6	115.0

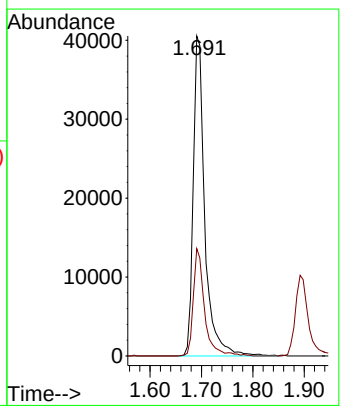


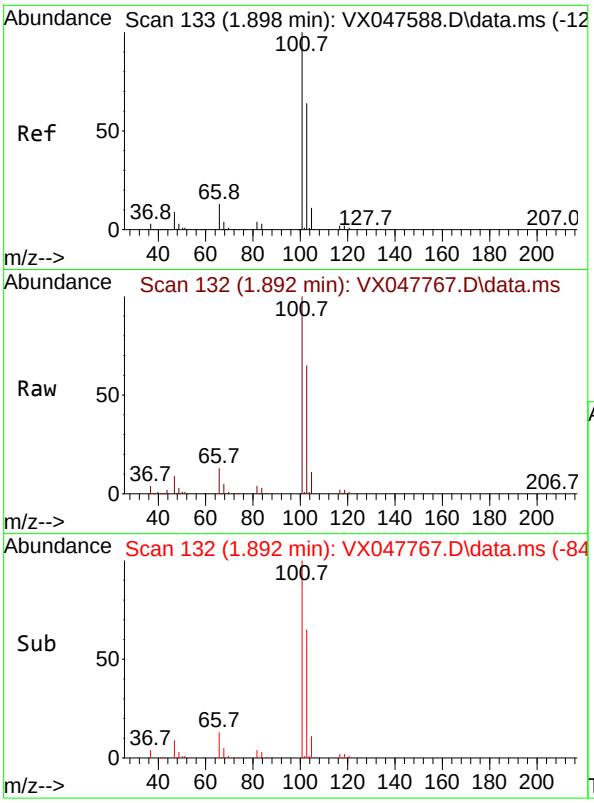


#6
Chloroethane
Concen: 52.368 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 64 Resp: 63530

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.1	39.1



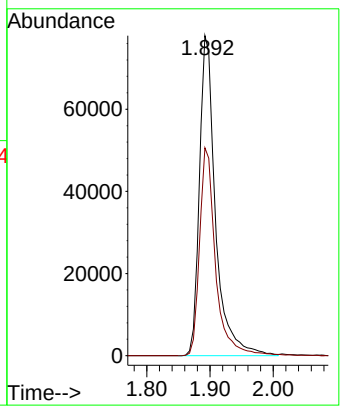


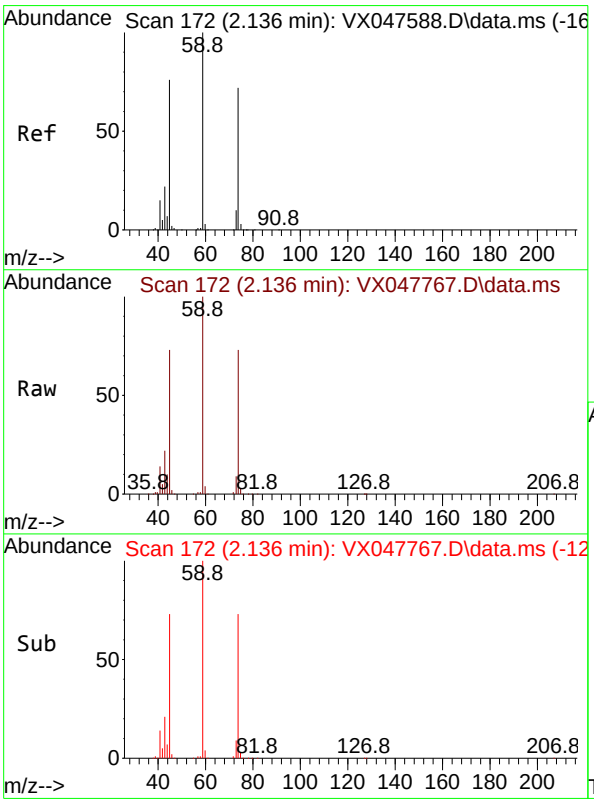
#7
Trichlorofluoromethane
Concen: 51.208 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 138008

Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.4	77.2

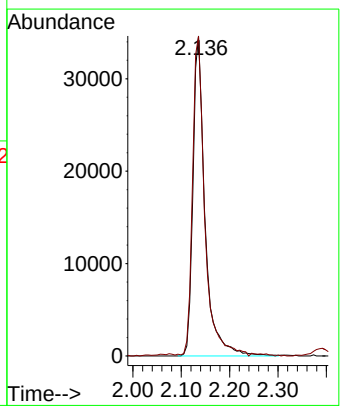


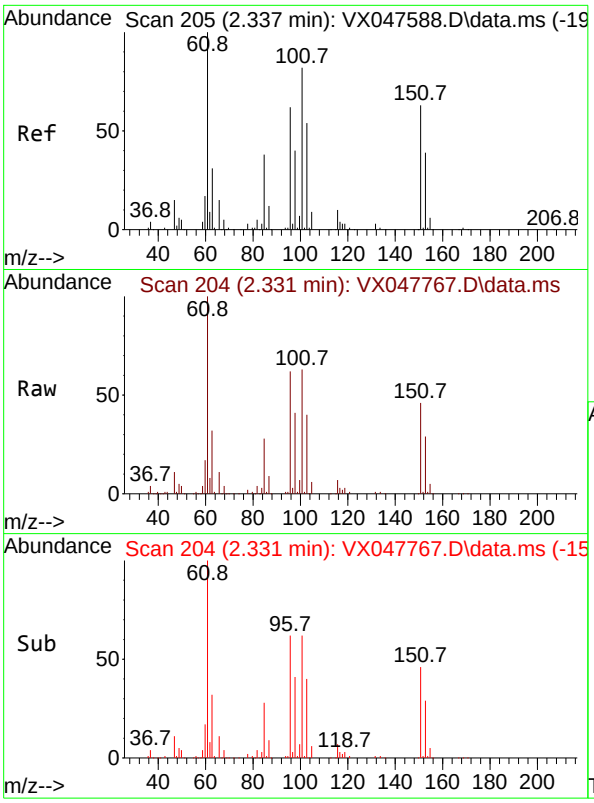


#8
Diethyl Ether
Concen: 54.277 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 74 Resp: 59838

Ion	Ratio	Lower	Upper
74	100		
45	101.9	52.3	156.8



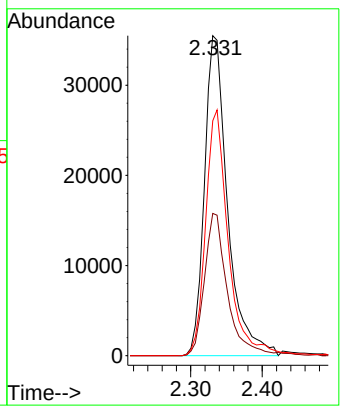


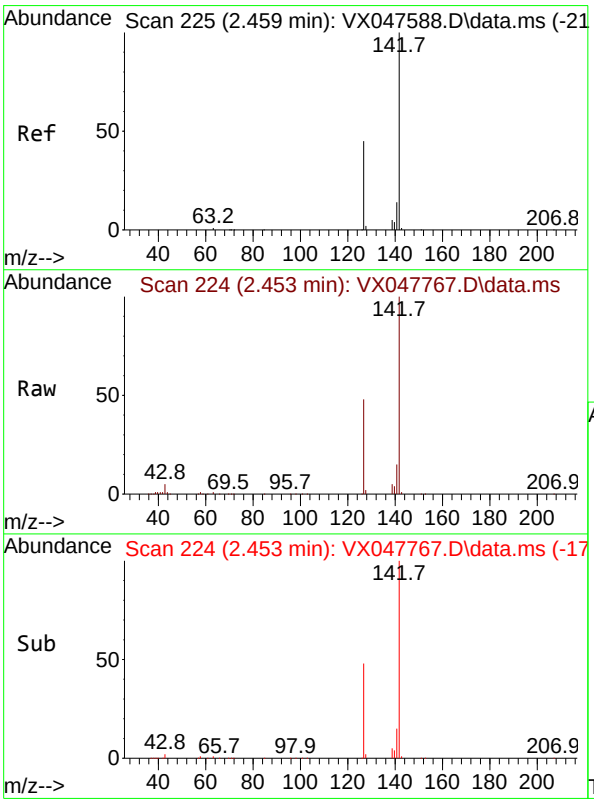
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.667 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 79844

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	75.7	59.4	89.0

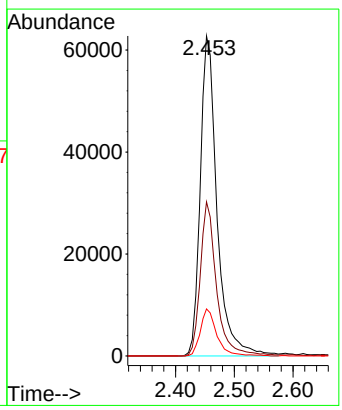


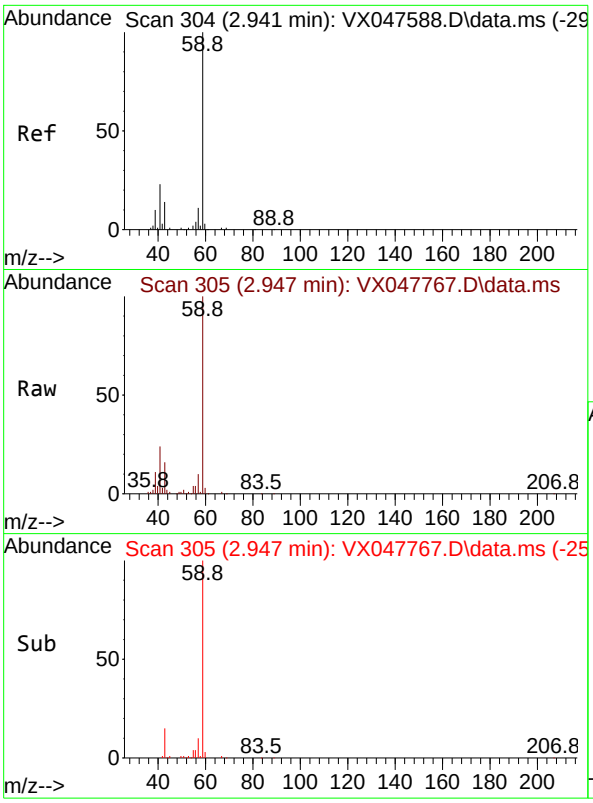


#10
Methyl Iodide
Concen: 50.757 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:142 Resp: 124745

Ion	Ratio	Lower	Upper
142	100		
127	46.7	37.2	55.8
141	14.5	11.4	17.0



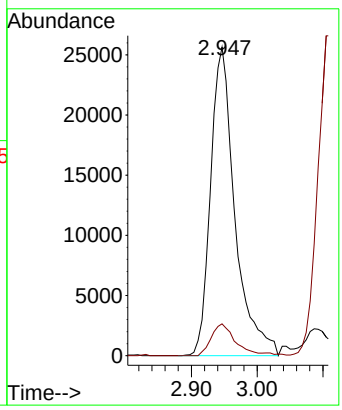


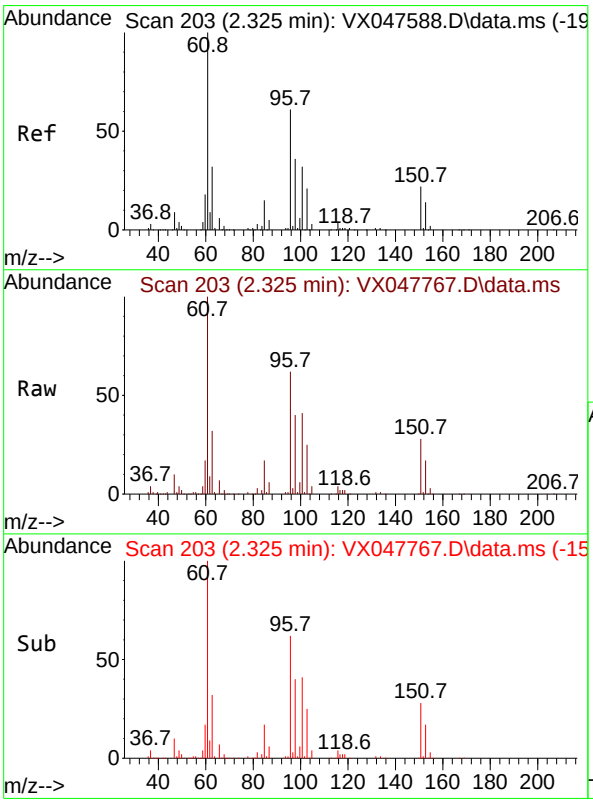
#11
Tert butyl alcohol
Concen: 273.139 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 65972

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5

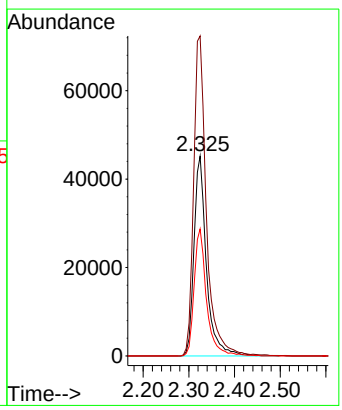


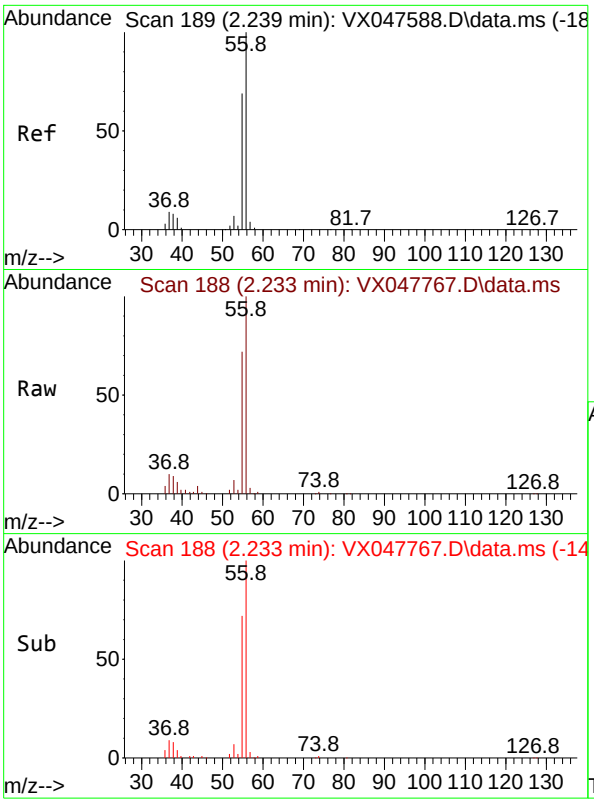


#12
1,1-Dichloroethene
Concen: 53.075 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 96 Resp: 85914

Ion	Ratio	Lower	Upper
96	100		
61	160.1	131.0	196.6
98	63.6	47.7	71.5



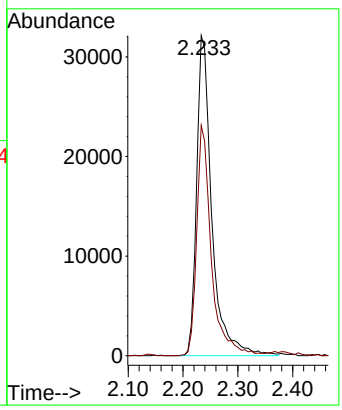


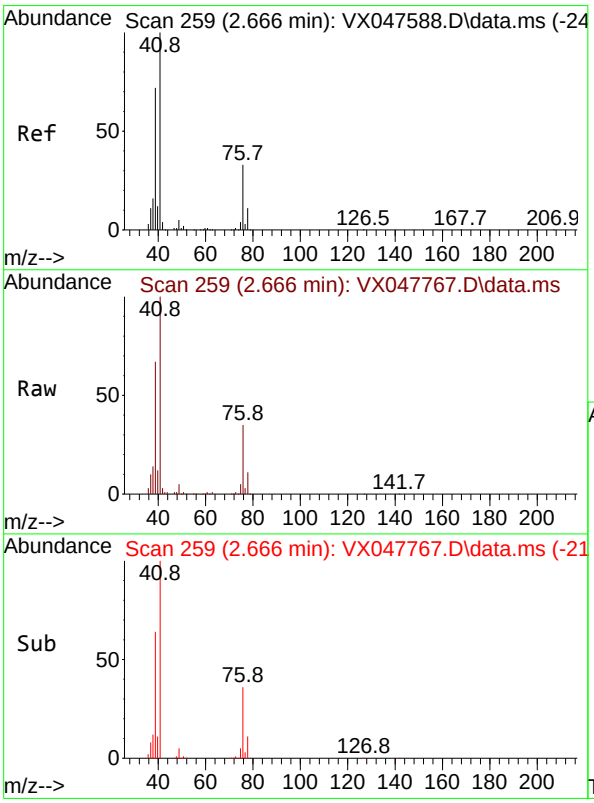
#13
Acrolein
Concen: 278.592 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 62008

Ion	Ratio	Lower	Upper
56	100		
55	69.2	57.2	85.8

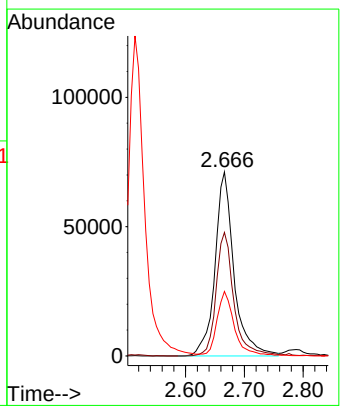


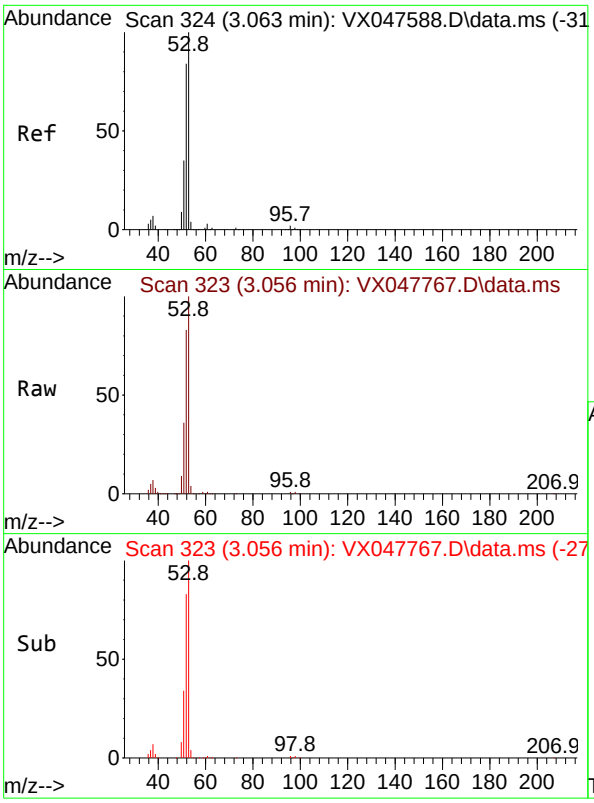


#14
Allyl chloride
Concen: 47.997 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 160323

Ion	Ratio	Lower	Upper
41	100		
39	62.7	54.7	82.1
76	31.5	25.7	38.5



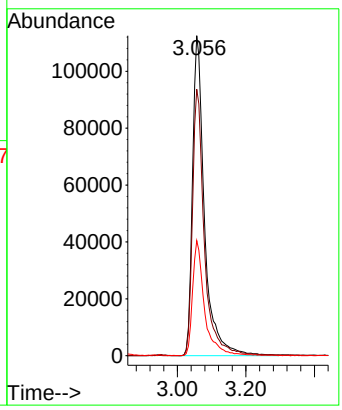


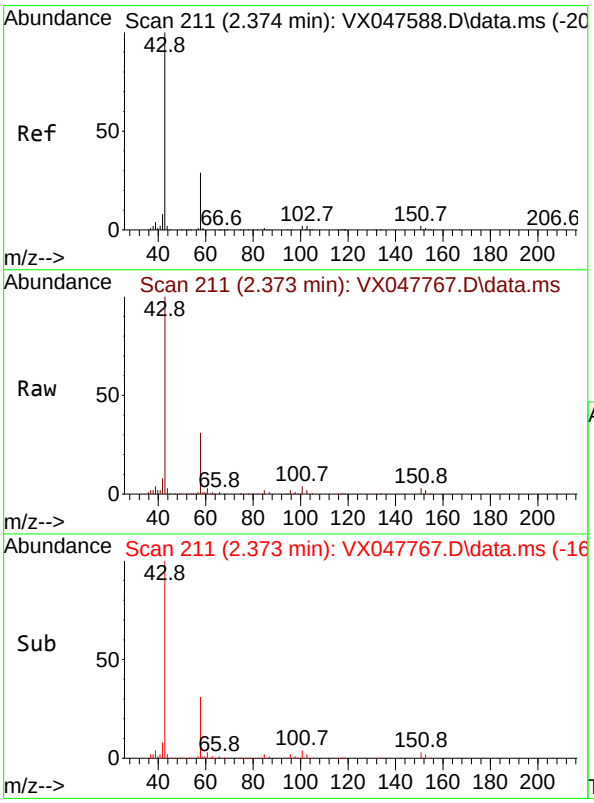
#15
Acrylonitrile
Concen: 306.873 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 274545

Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	35.9	29.5	44.3

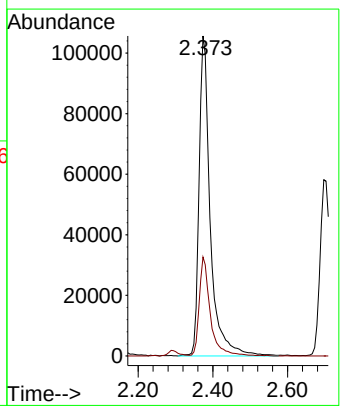


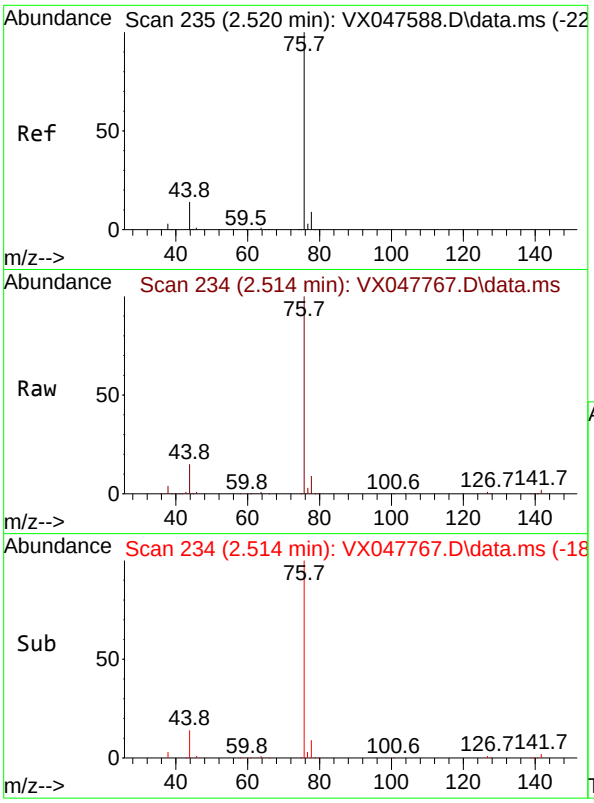


#16
Acetone
Concen: 233.292 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 219982

Ion	Ratio	Lower	Upper
43	100		
58	30.9	23.4	35.0



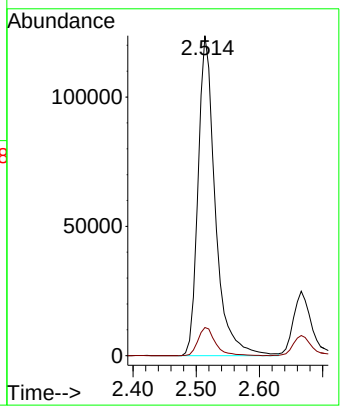


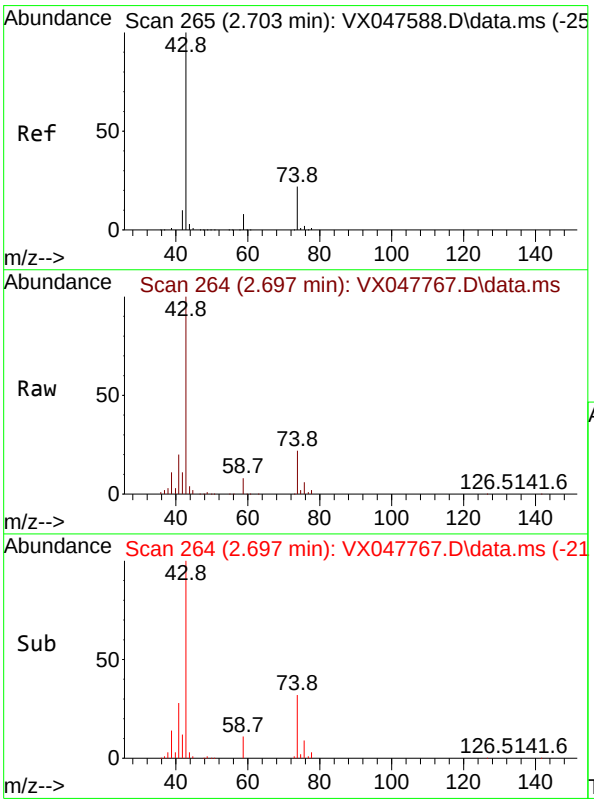
#17
Carbon Disulfide
Concen: 52.888 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 234371

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2

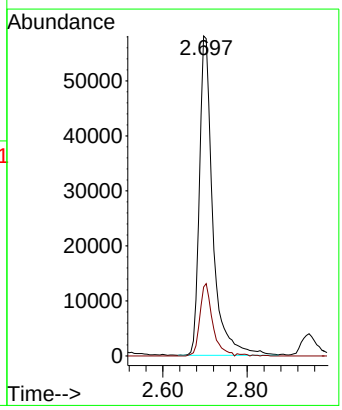


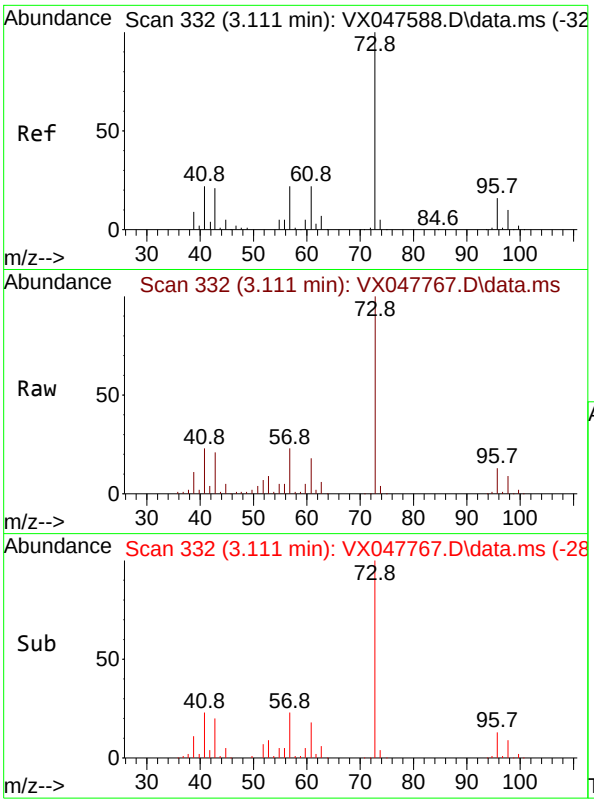


#18
Methyl Acetate
Concen: 61.011 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 128034

Ion	Ratio	Lower	Upper
43	100		
74	21.6	17.4	26.2



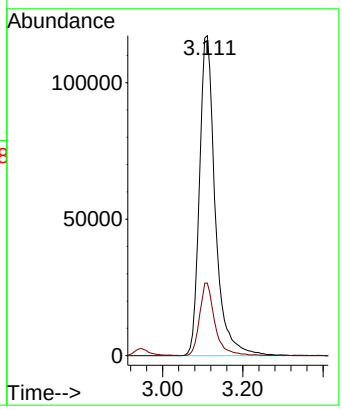


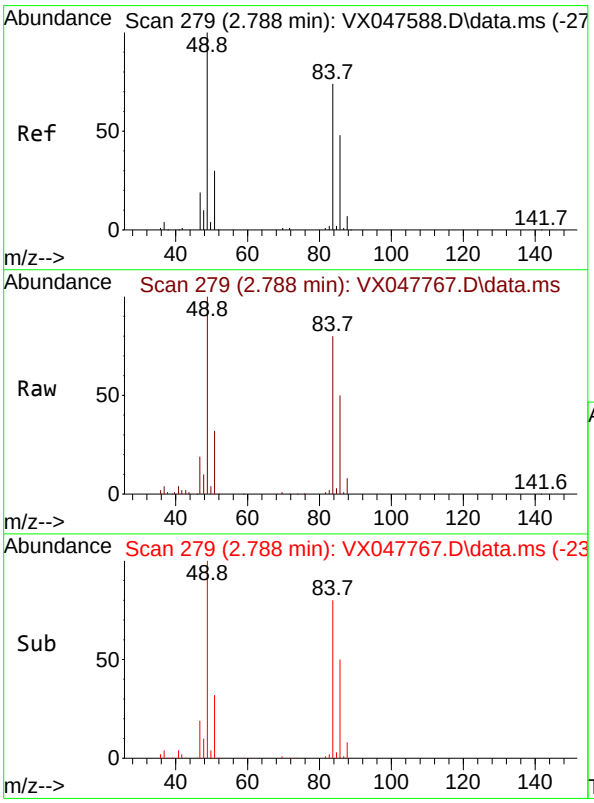
#19
Methyl tert-butyl Ether
Concen: 54.228 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 320438

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.4	26.2

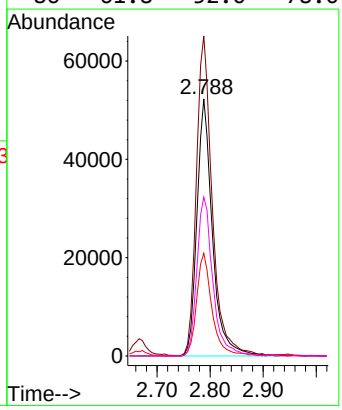


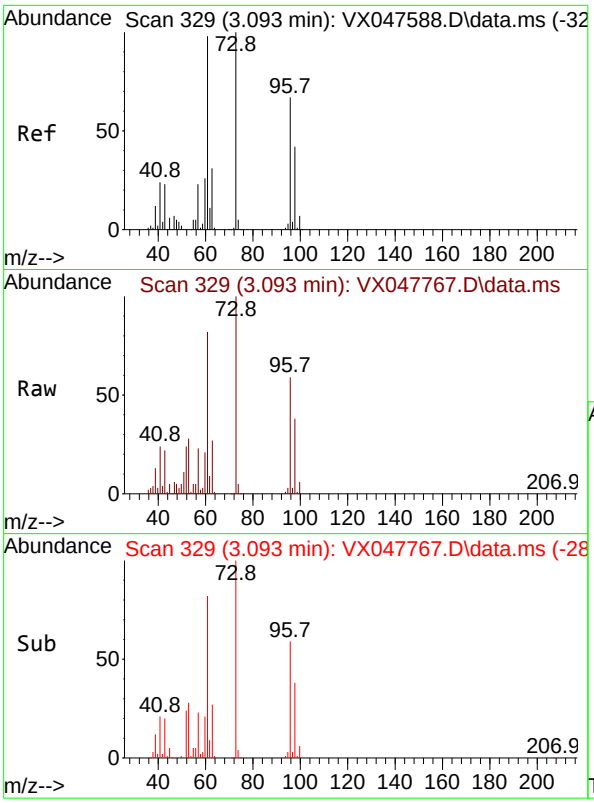


#20
Methylene Chloride
Concen: 53.176 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 84 Resp: 106137

Ion	Ratio	Lower	Upper
84	100		
49	124.3	108.6	162.8
51	39.9	32.6	48.8
86	61.8	52.0	78.0



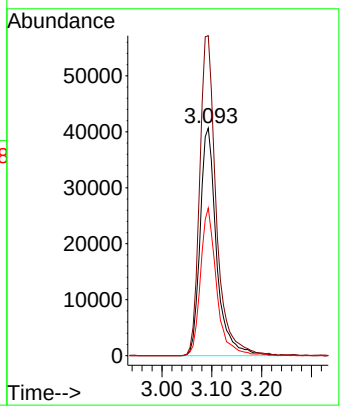


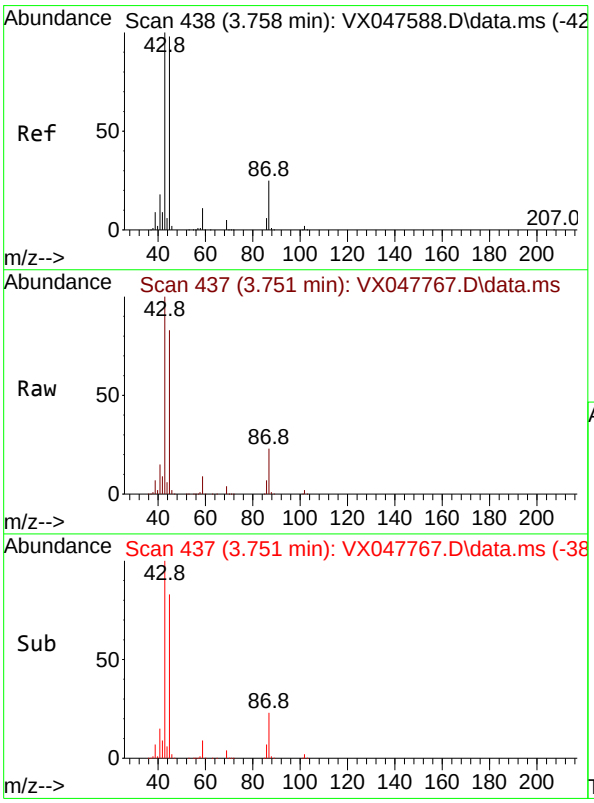
#21
trans-1,2-Dichloroethene
Concen: 53.545 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 93317

Ion	Ratio	Lower	Upper
96	100		
61	140.5	116.2	174.2
98	64.9	49.3	73.9

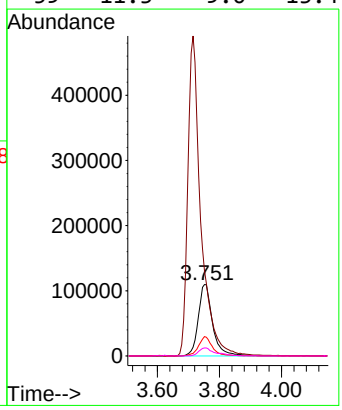


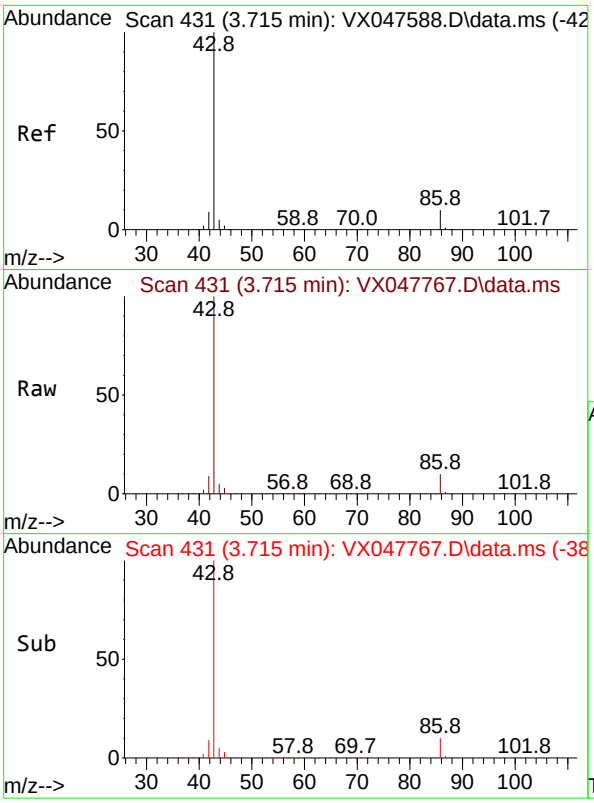


#22
Diisopropyl ether
Concen: 54.161 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 45 Resp: 350616

Ion	Ratio	Lower	Upper
45	100		
43	119.1	81.0	121.4
87	27.2	20.3	30.5
59	11.3	9.0	13.4



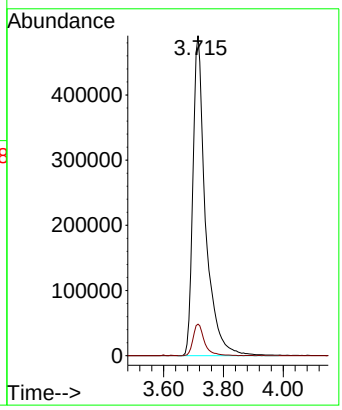


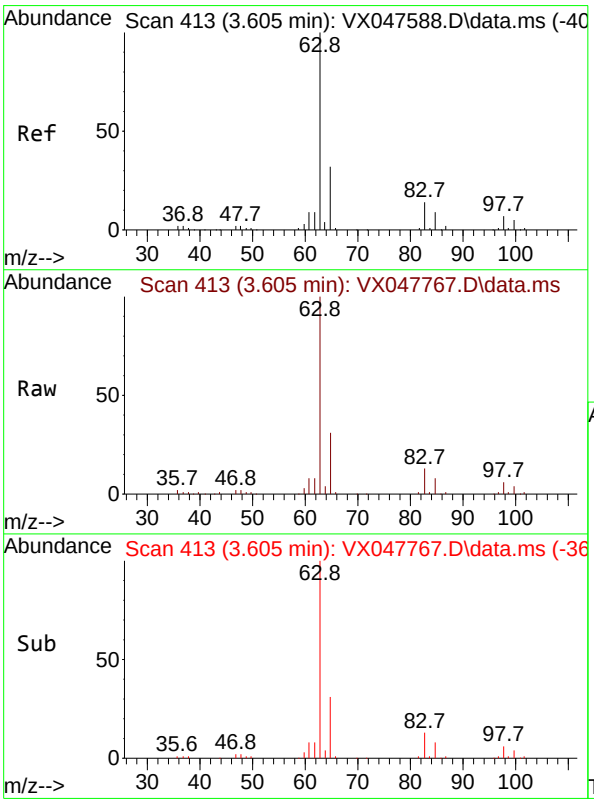
#23
Vinyl Acetate
Concen: 278.405 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1442450

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8

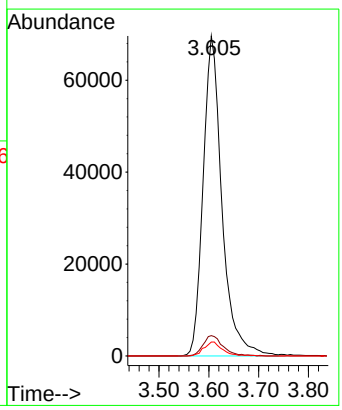


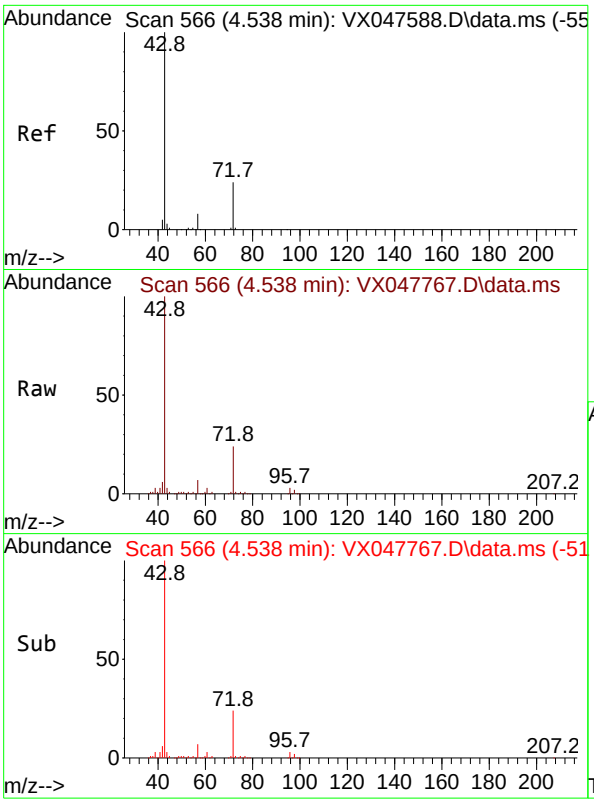


#24
1,1-Dichloroethane
Concen: 53.106 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 182725

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.3	2.3	6.9



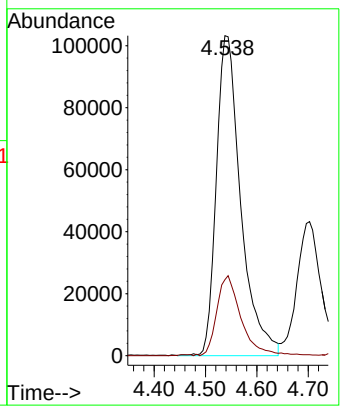


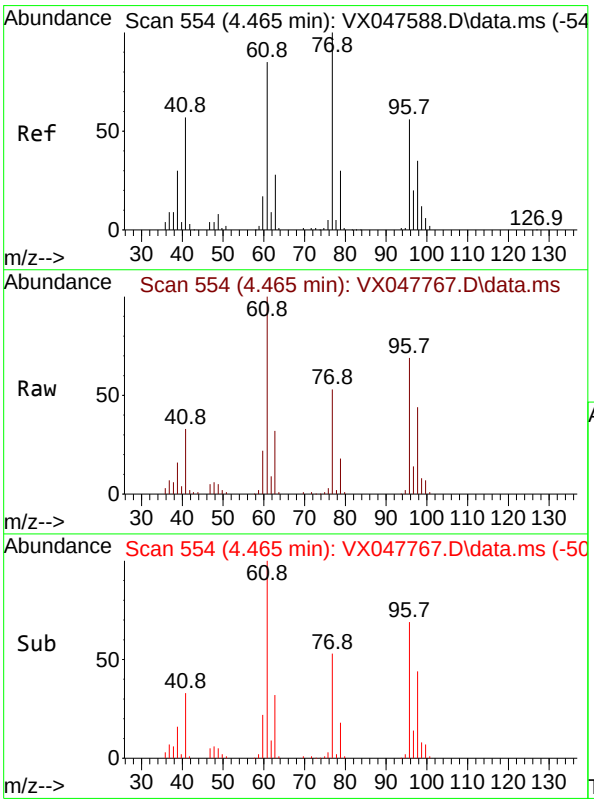
#25
2-Butanone
Concen: 289.378 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 340369

Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.1	30.1

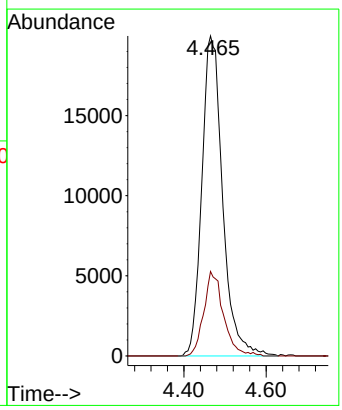


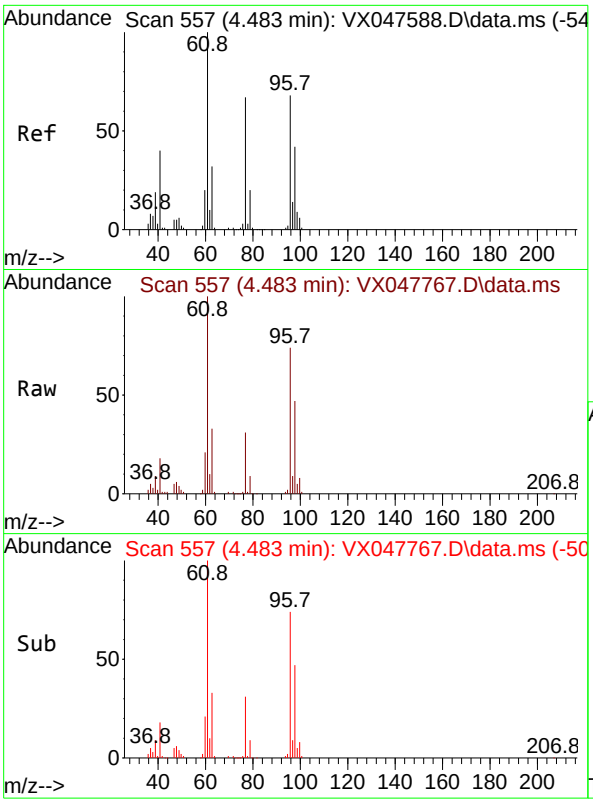


#26
2,2-Dichloropropane
Concen: 24.508 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 77 Resp: 70096

Ion	Ratio	Lower	Upper
77	100		
97	25.0	10.9	32.7



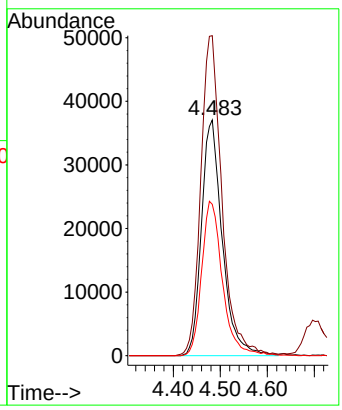


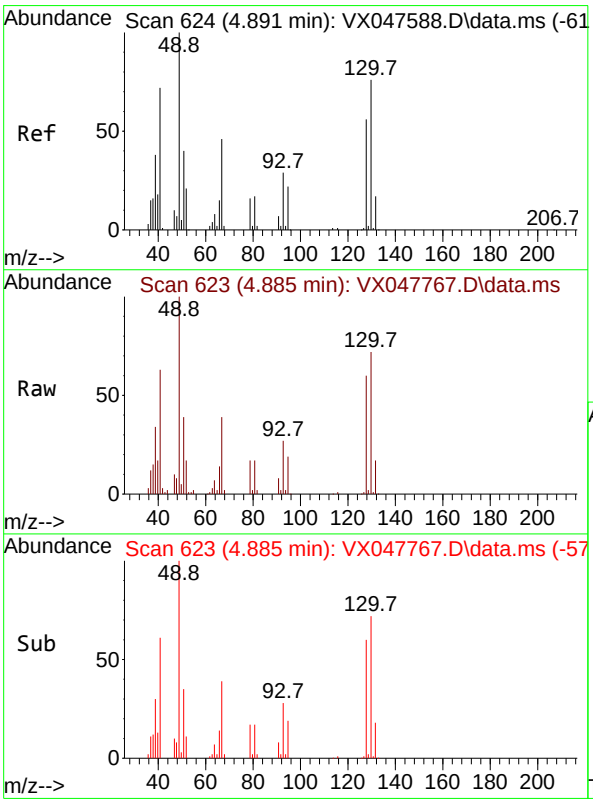
#27
cis-1,2-Dichloroethene
Concen: 53.299 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 113757

Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	303.2
98	65.5	0.0	127.8

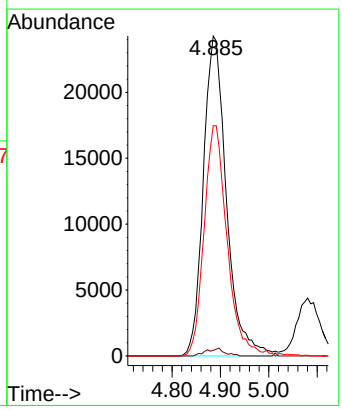


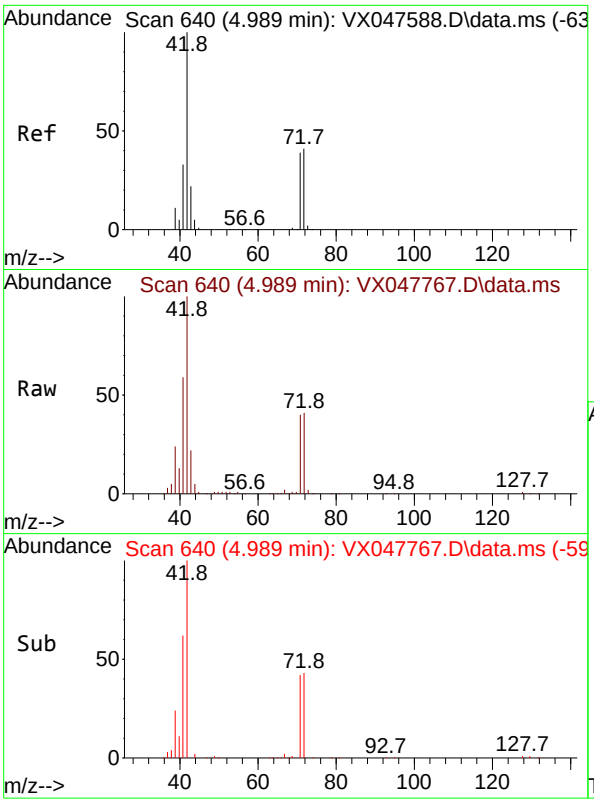


#28
Bromochloromethane
Concen: 53.622 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 49 Resp: 80547

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	71.6	57.8	86.8



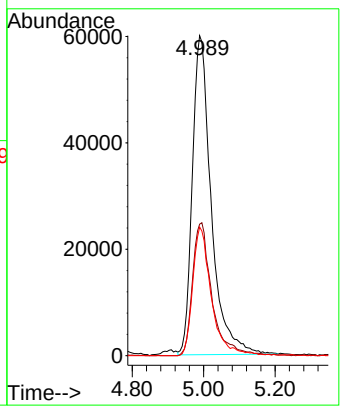


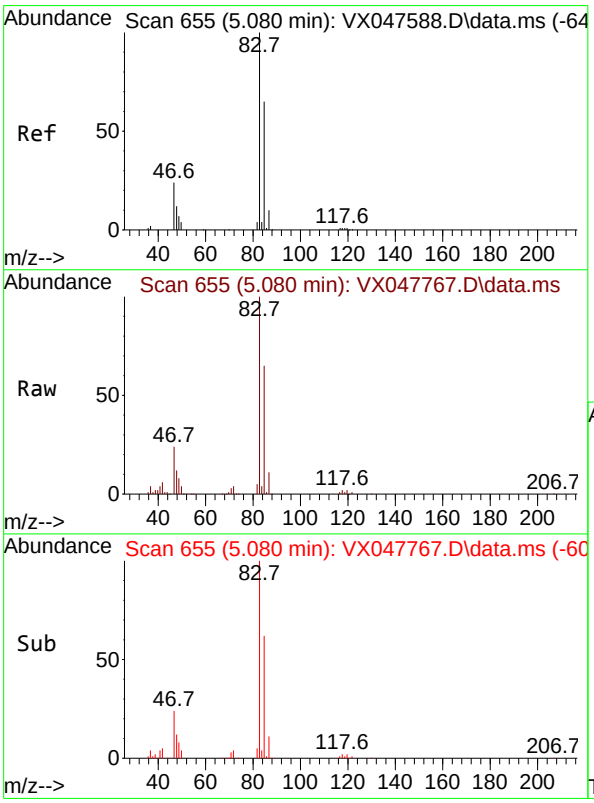
#29
Tetrahydrofuran
Concen: 311.862 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 220667

Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.2	51.2
71	39.6	31.9	47.9

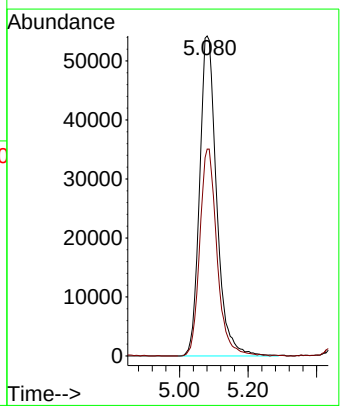


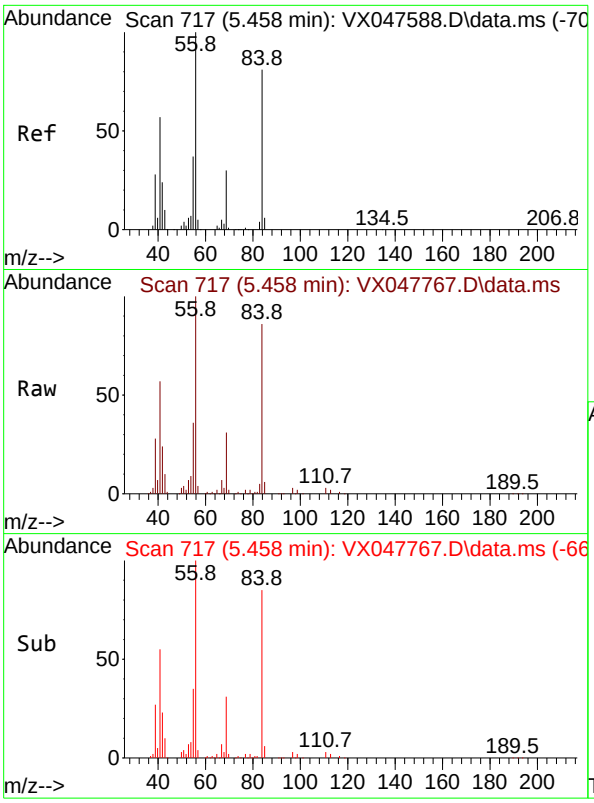


#30
Chloroform
Concen: 53.913 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 83 Resp: 187454

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6



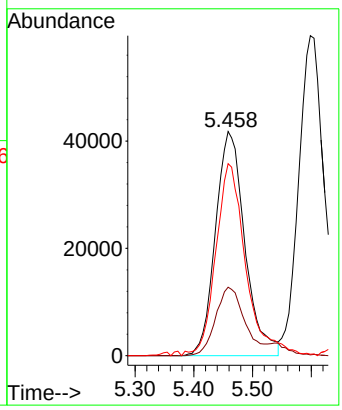


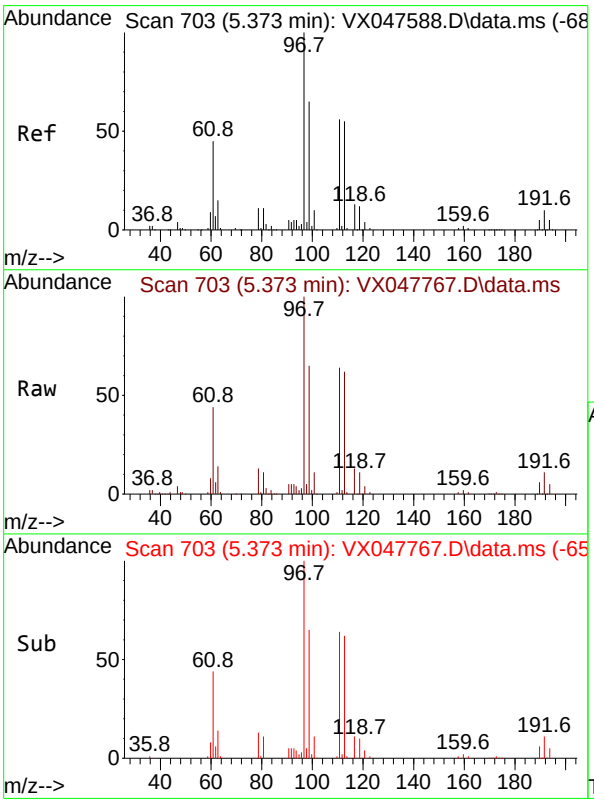
#31
Cyclohexane
Concen: 50.693 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 145273

Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.8	35.8
84	83.7	64.6	97.0

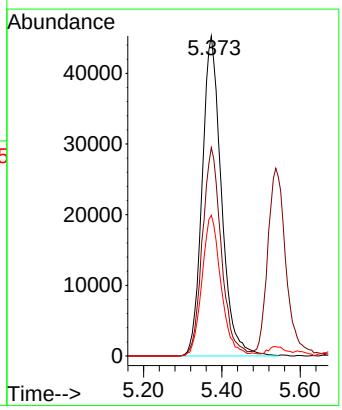


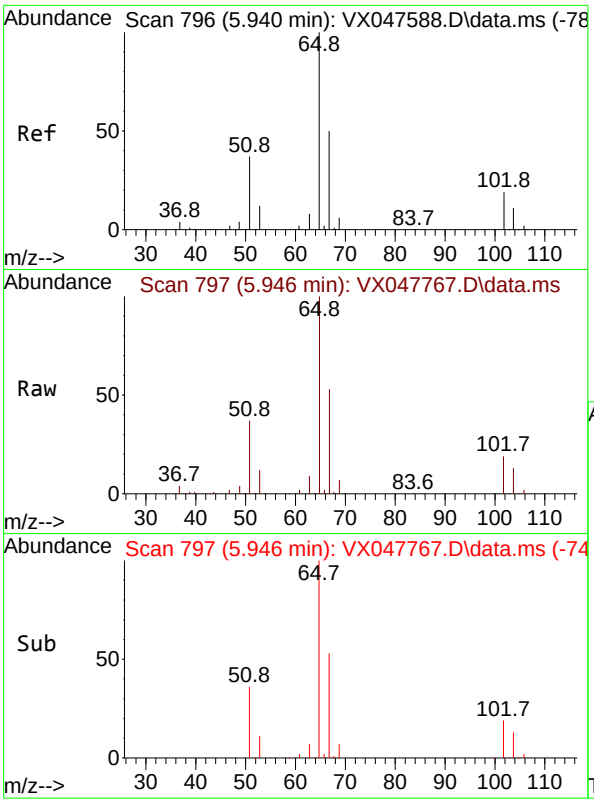


#32
1,1,1-Trichloroethane
Concen: 52.395 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 97 Resp: 154526

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.6	76.0
61	43.6	35.8	53.8



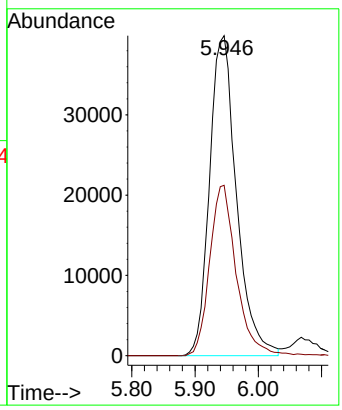


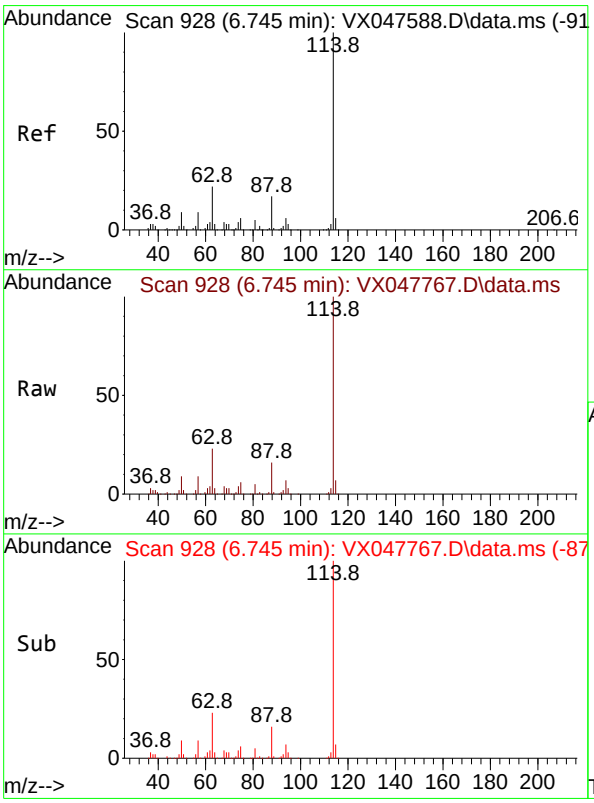
#33
1,2-Dichloroethane-d4
Concen: 54.388 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 117949

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	103.0

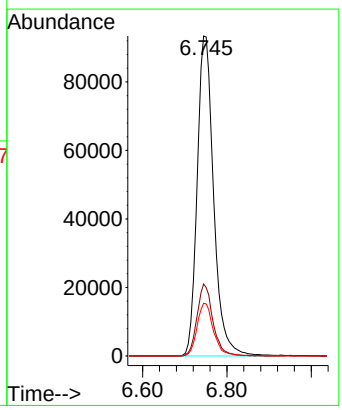


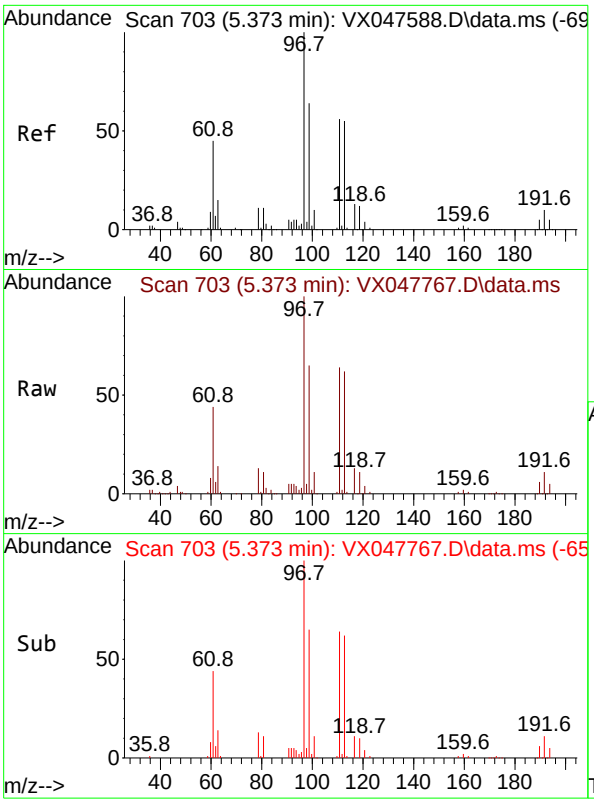


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:114 Resp: 254252

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.5	0.0	34.2



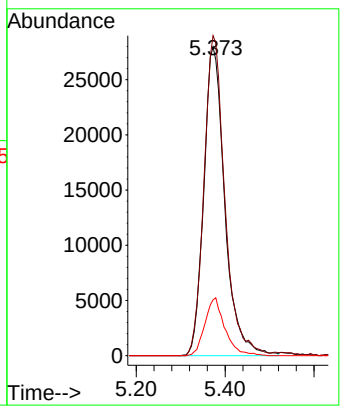


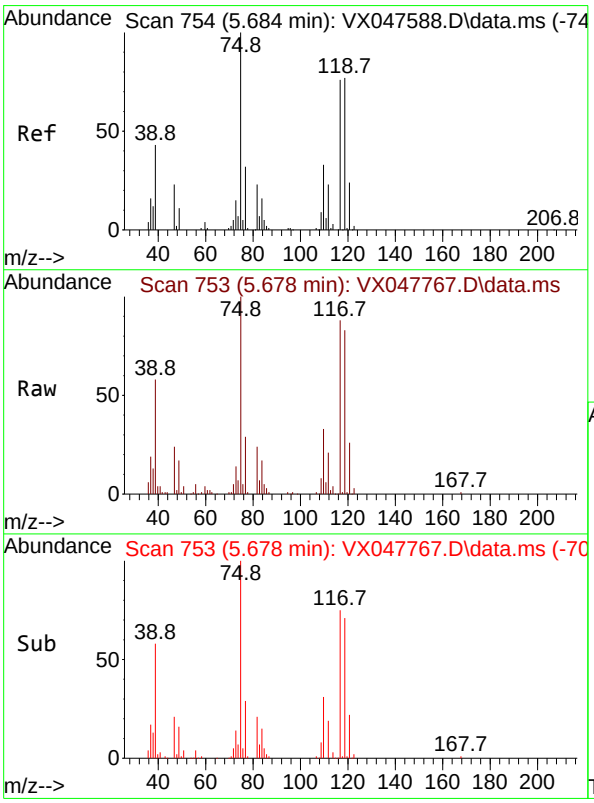
#35
Dibromofluoromethane
Concen: 53.983 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 92049

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	17.8	14.2	21.4

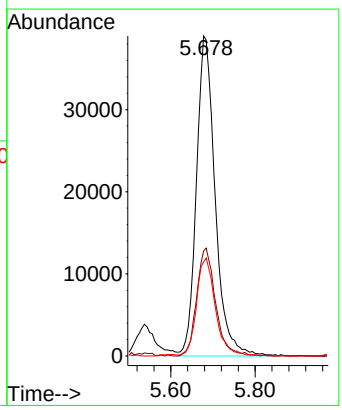


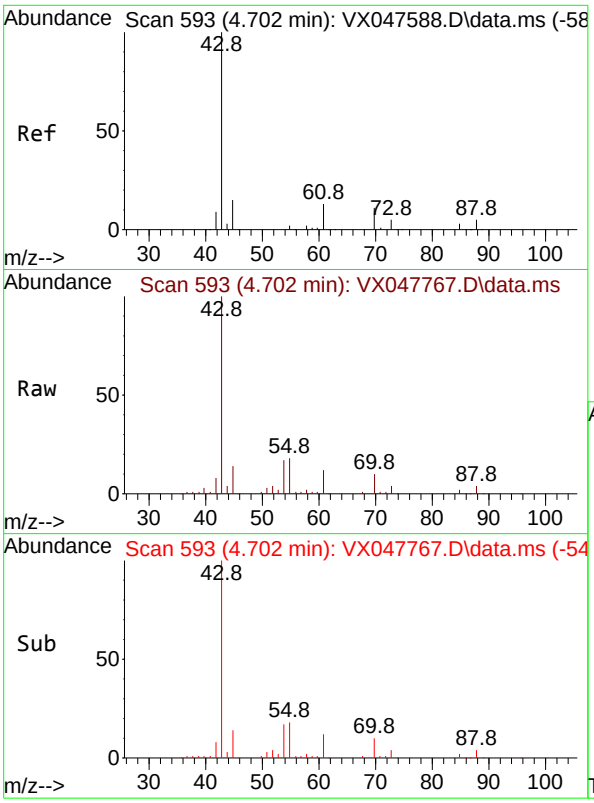


#36
1,1-Dichloropropene
Concen: 48.437 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 120688

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.7	50.1
77	30.0	24.3	36.5



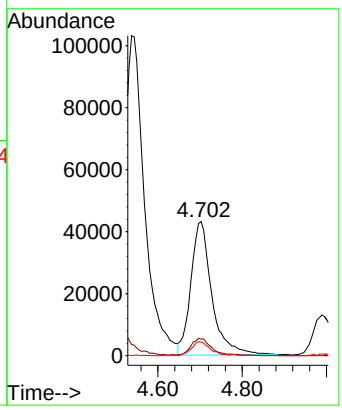


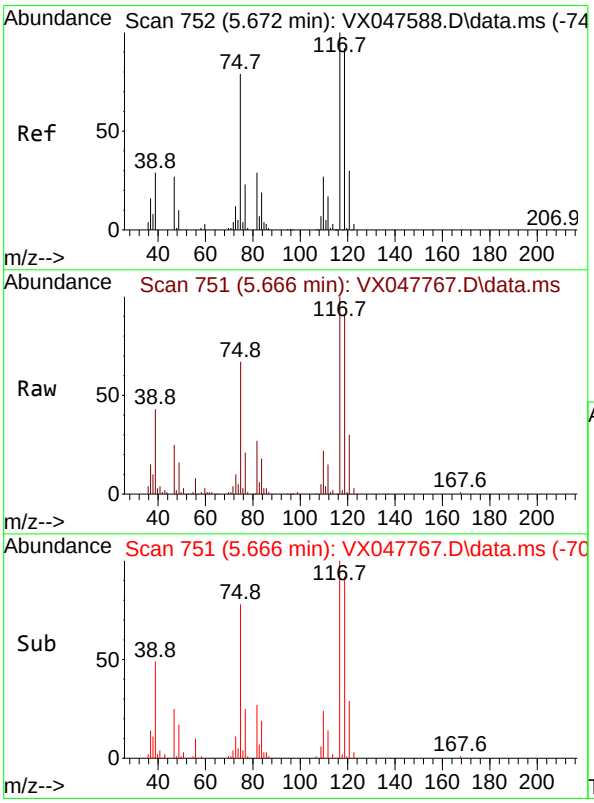
#37
Ethyl Acetate
Concen: 55.869 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 149048

Ion	Ratio	Lower	Upper
43	100		
61	11.6	9.8	14.8
70	9.4	7.9	11.9

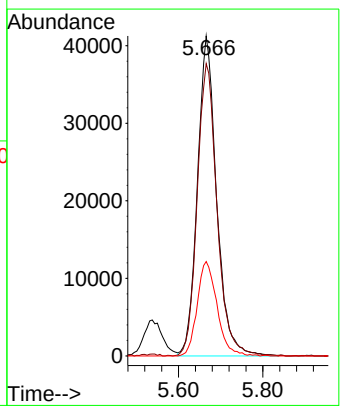


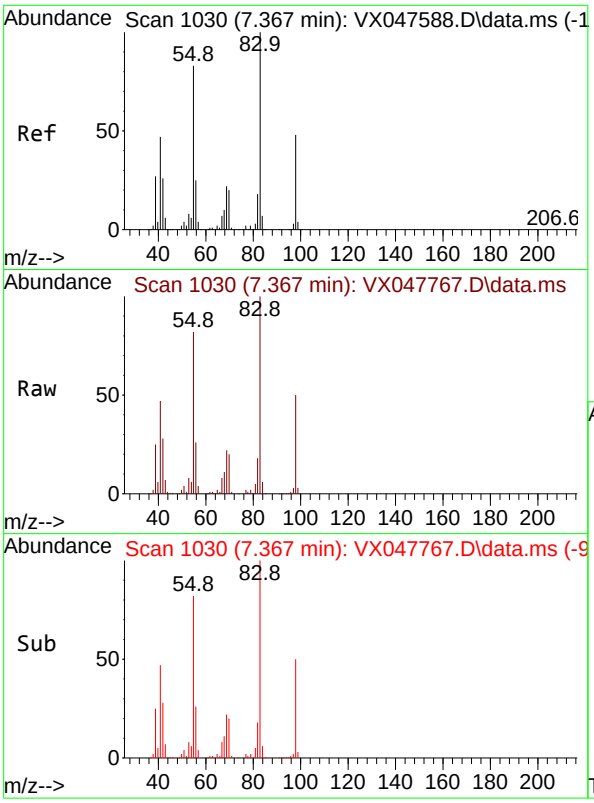


#38
Carbon Tetrachloride
Concen: 48.322 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:117 Resp: 130818

Ion	Ratio	Lower	Upper
117	100		
119	91.2	73.4	110.2
121	29.5	23.8	35.6



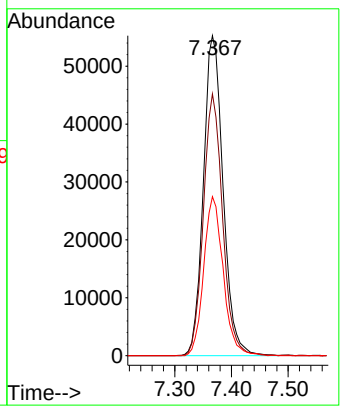


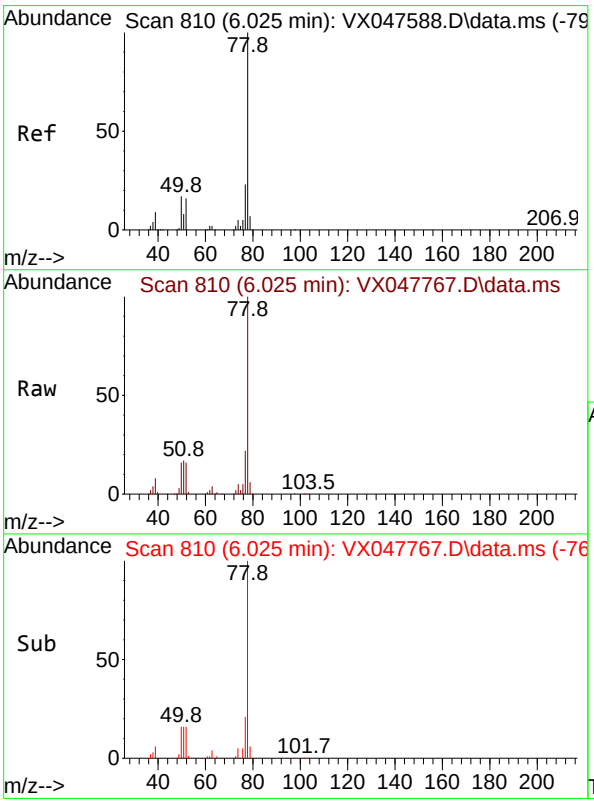
#39
Methylcyclohexane
Concen: 47.171 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 133414

Ion	Ratio	Lower	Upper
83	100		
55	81.7	66.4	99.6
98	49.7	38.1	57.1

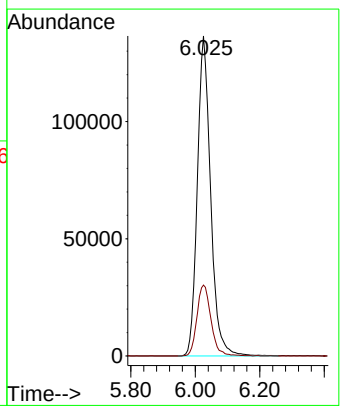


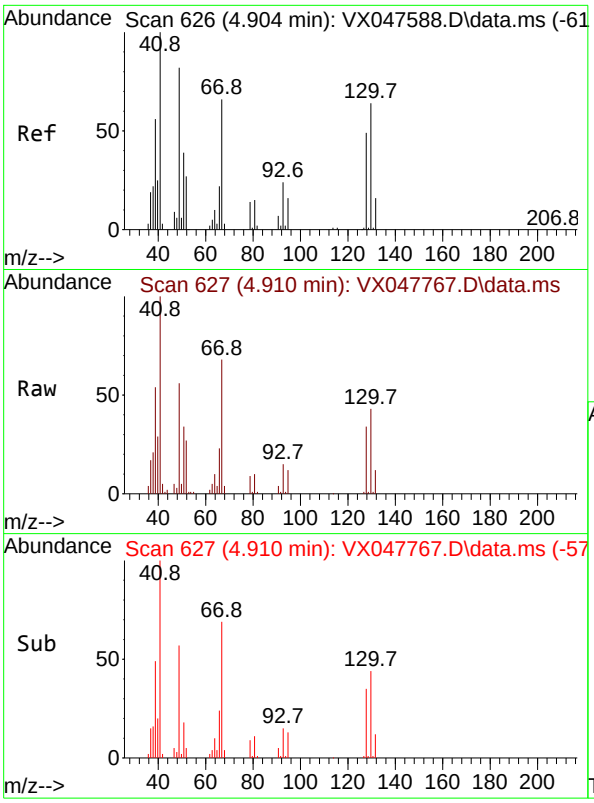


#40
Benzene
Concen: 51.523 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 78 Resp: 389912

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.8	28.2



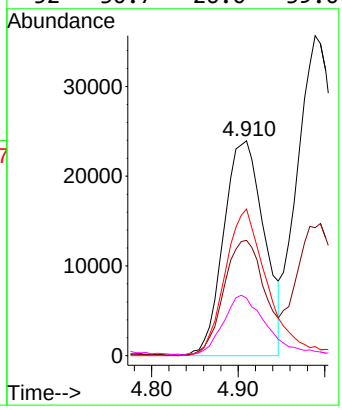


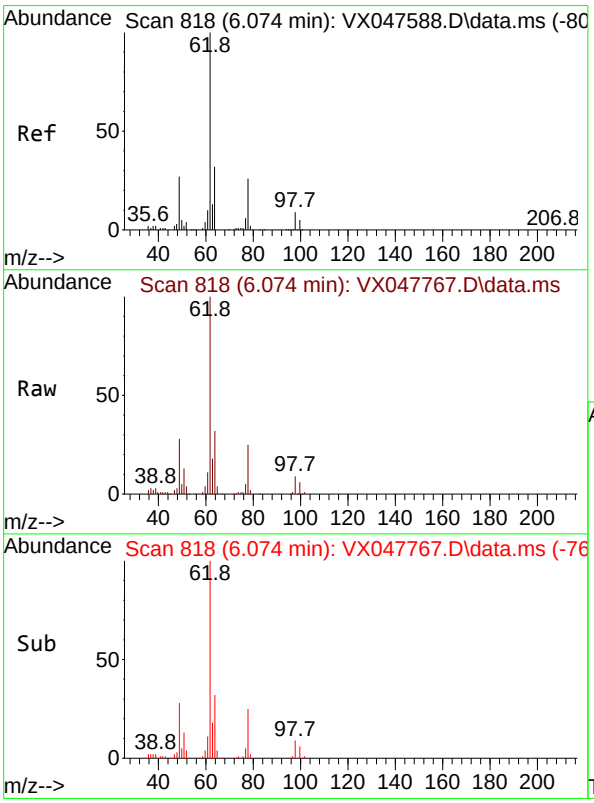
#41
Methacrylonitrile
Concen: 56.618 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 77979

Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.3	64.9
67	73.2	58.6	87.8
52	30.7	26.0	39.0

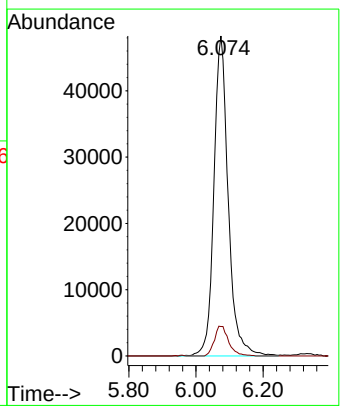


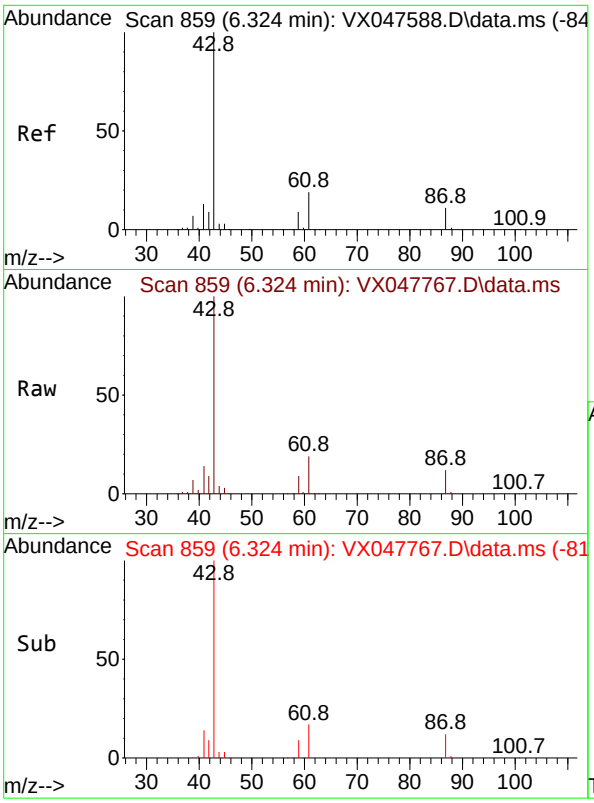


#42
1,2-Dichloroethane
Concen: 49.663 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 62 Resp: 143000

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	17.0



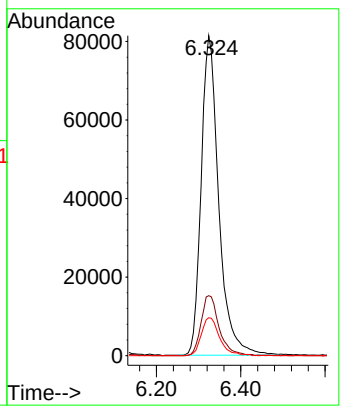


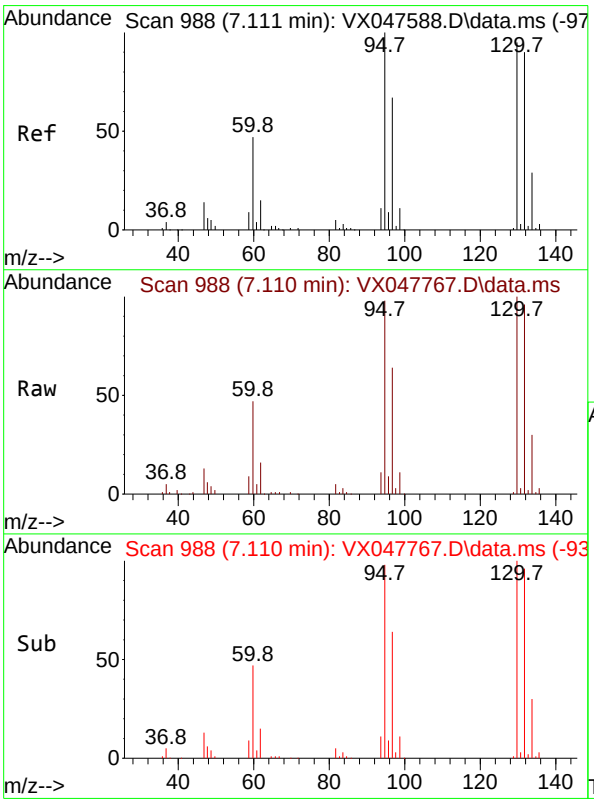
#43
Isopropyl Acetate
Concen: 53.933 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 235980

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.4	9.6	14.4

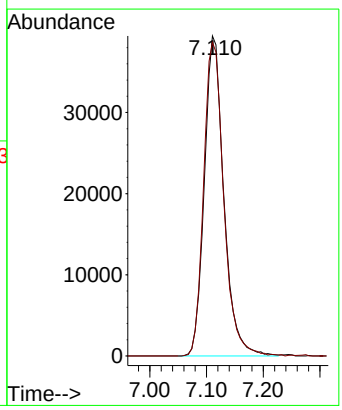


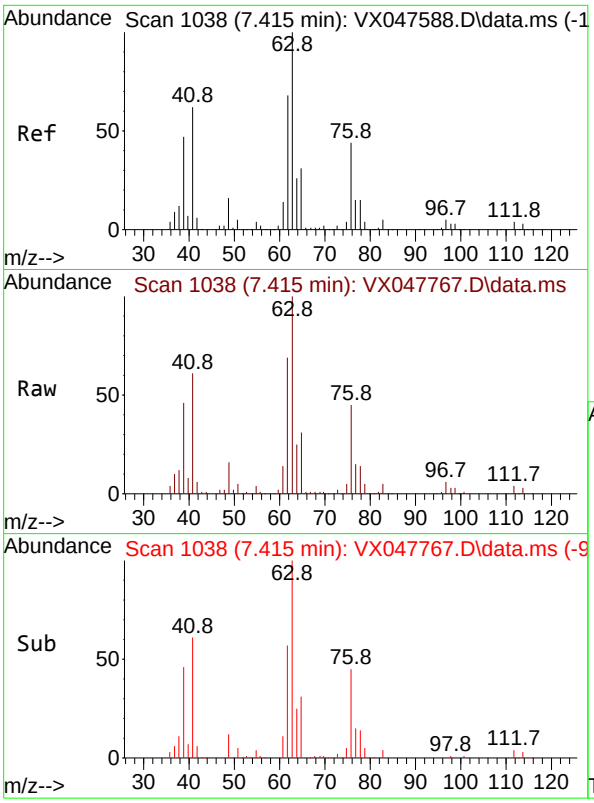


#44
Trichloroethene
Concen: 51.488 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:130 Resp: 94203

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	210.8



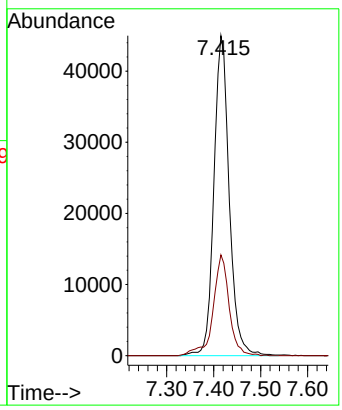


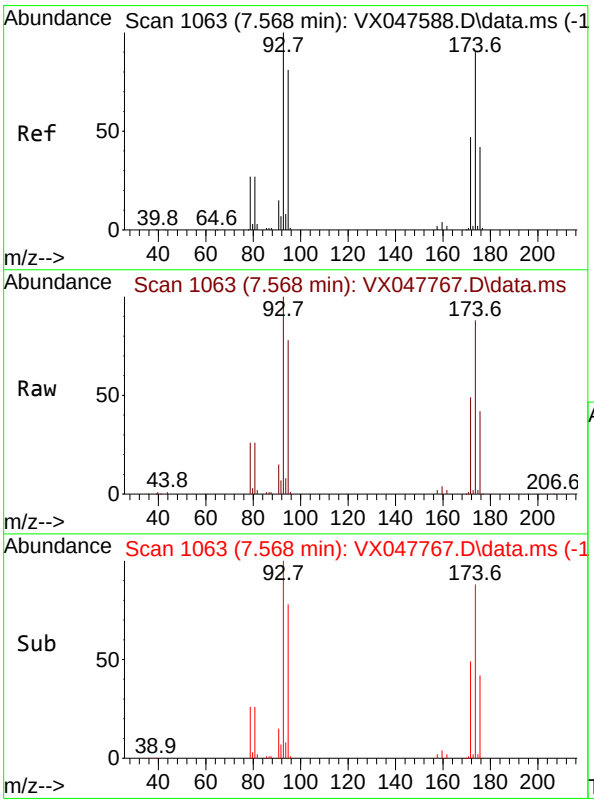
#45
1,2-Dichloropropane
Concen: 52.653 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 102032

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

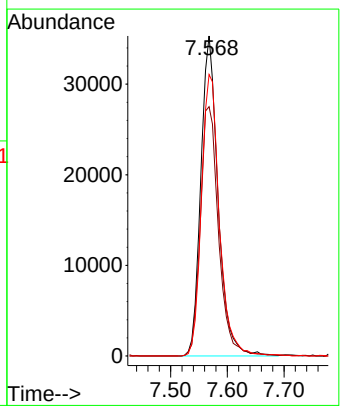


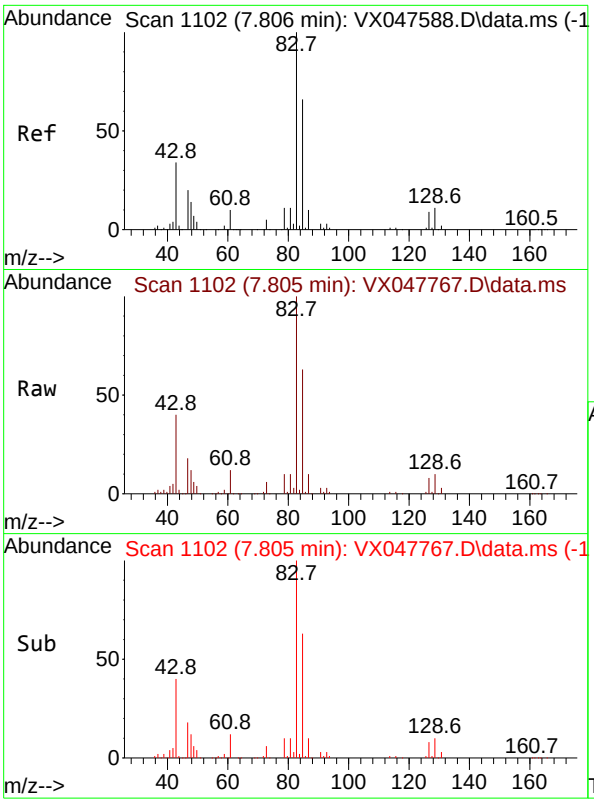


#46
Dibromomethane
Concen: 52.881 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 93 Resp: 74570

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	91.5	71.6	107.4



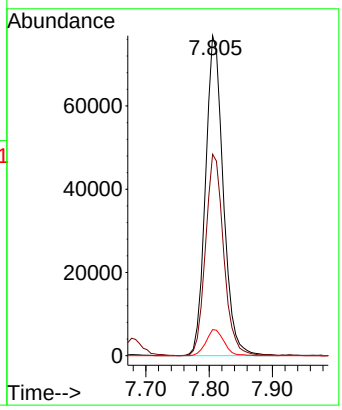


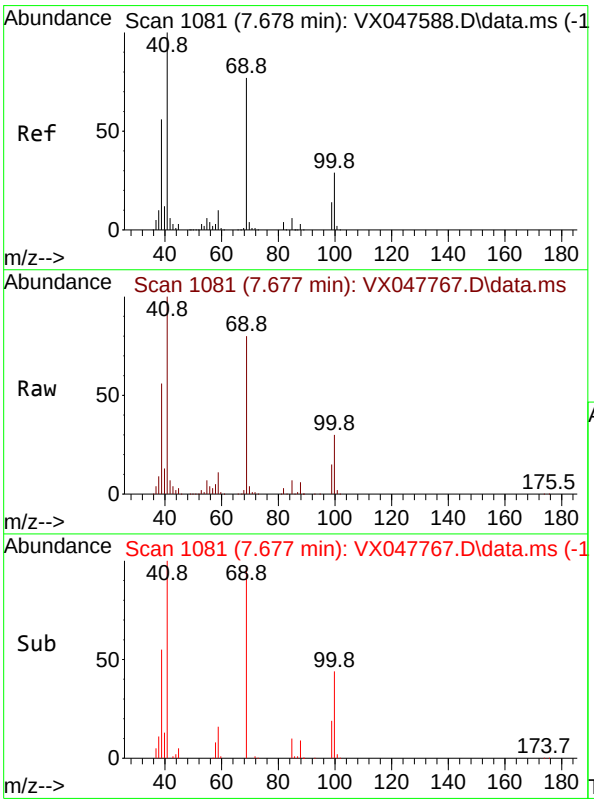
#47
Bromodichloromethane
Concen: 51.676 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 150372

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.5	78.7
127	8.2	6.9	10.3

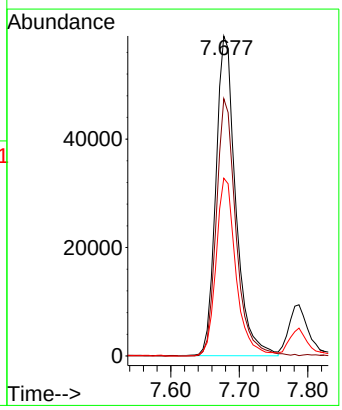


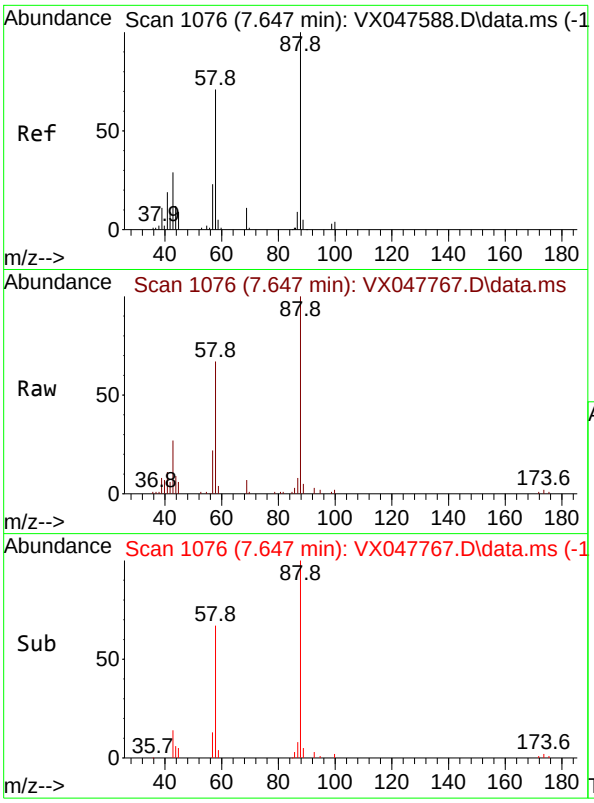


#48
Methyl methacrylate
Concen: 54.378 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 41 Resp: 118513

Ion	Ratio	Lower	Upper
41	100		
69	79.6	61.4	92.2
39	55.7	45.8	68.6



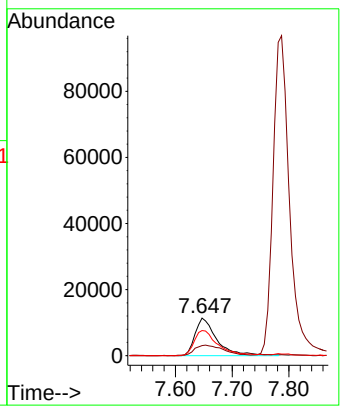


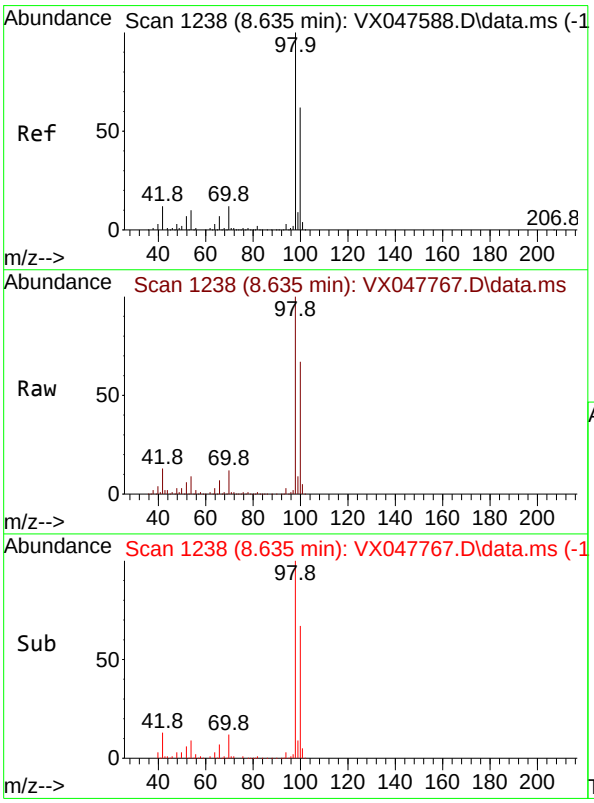
#49
1,4-Dioxane
Concen: 1379.627 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 30387

Ion	Ratio	Lower	Upper
88	100		
43	37.6	30.2	45.2
58	73.0	59.5	89.3

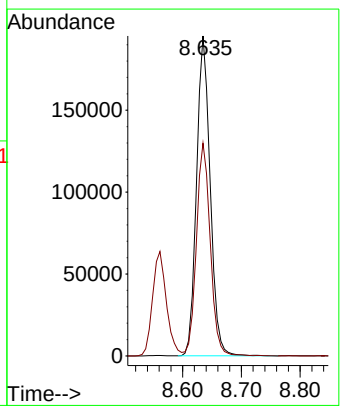


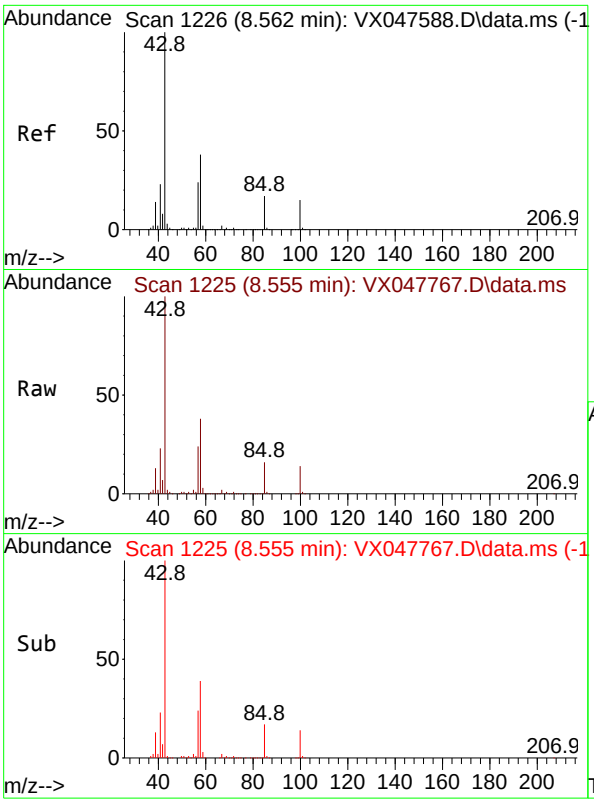


#50
Toluene-d8
Concen: 53.290 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 98 Resp: 314422

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4



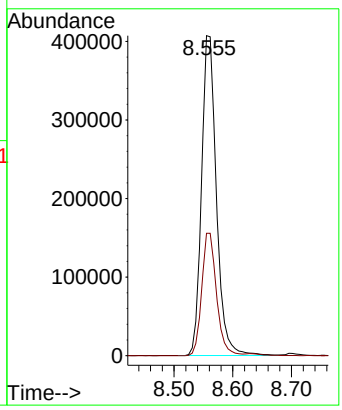


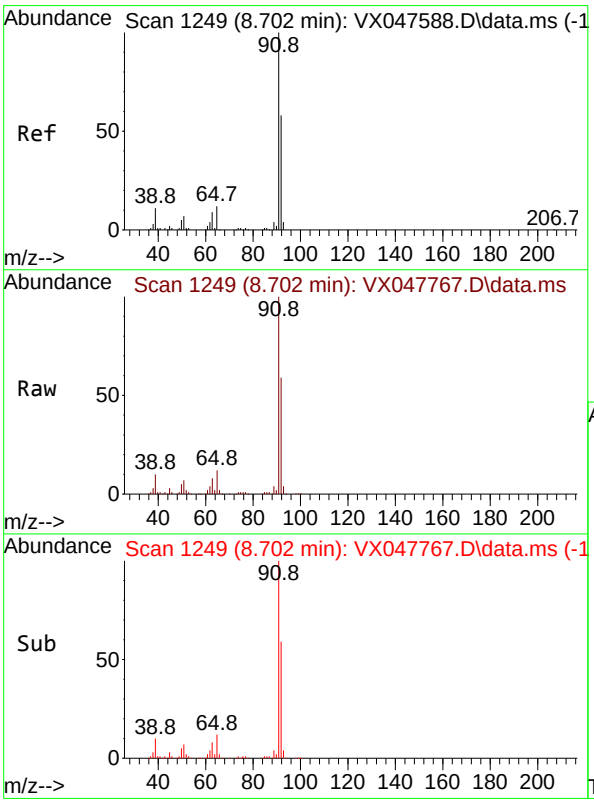
#51
4-Methyl-2-Pentanone
Concen: 296.207 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 718573

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

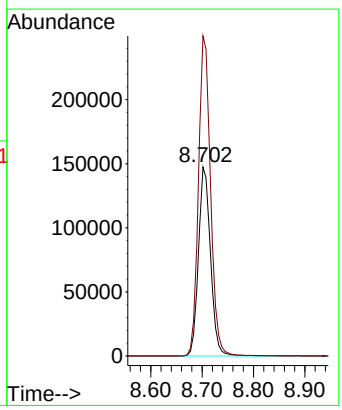


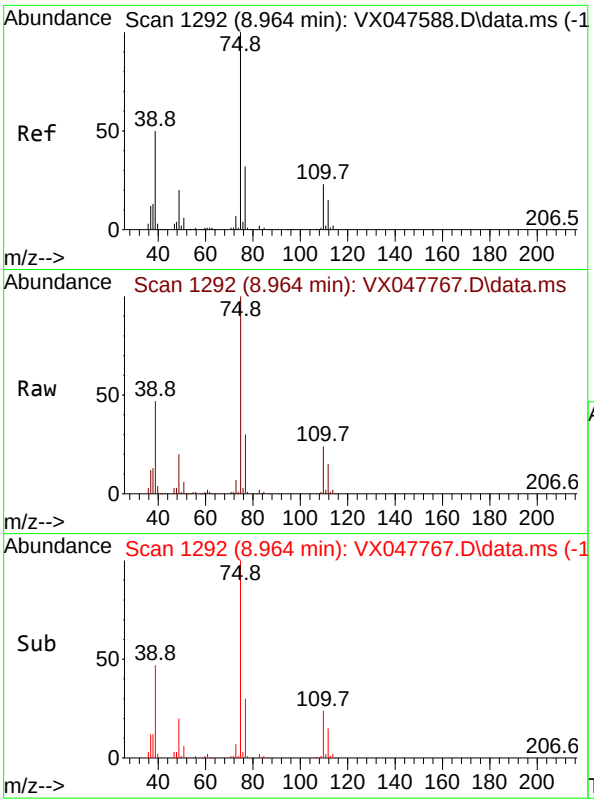


#52
Toluene
Concen: 51.397 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 92 Resp: 239637

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7



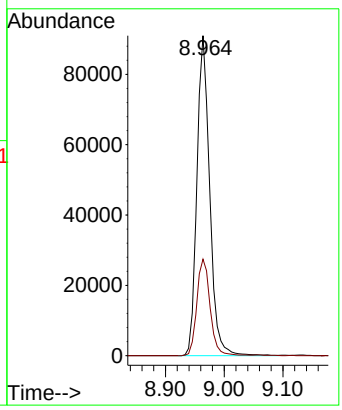


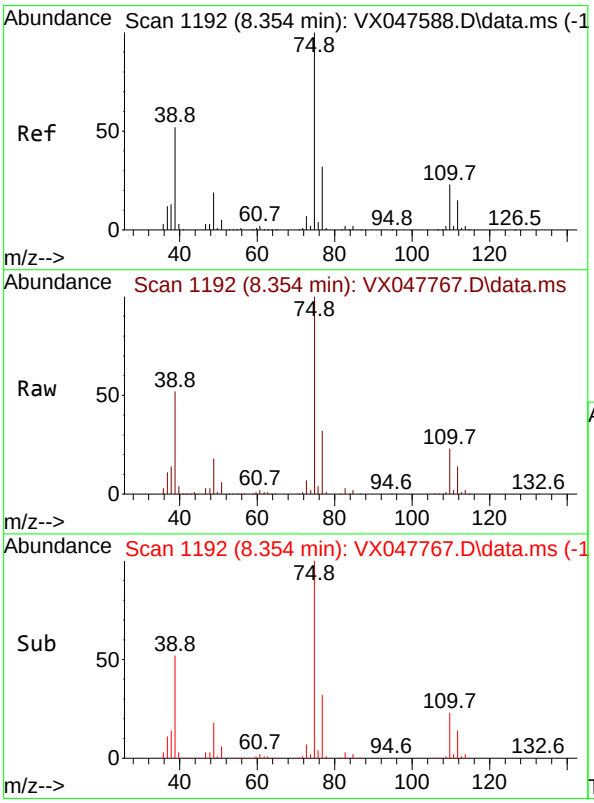
#53
t-1,3-Dichloropropene
Concen: 46.292 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 137402

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.2

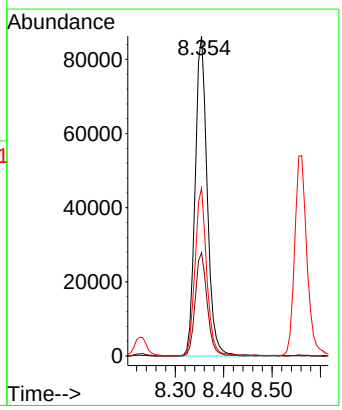


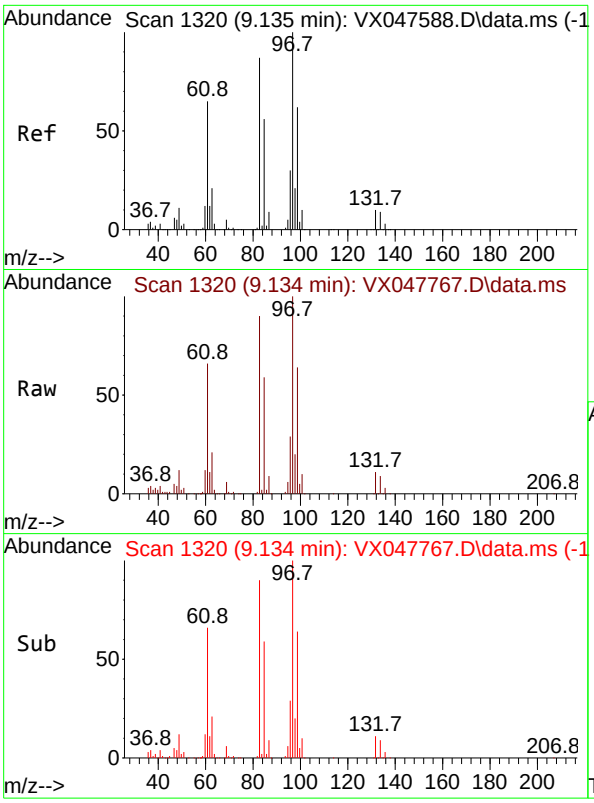


#54
cis-1,3-Dichloropropene
Concen: 47.013 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 149149

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.8	38.6
39	51.7	41.4	62.2



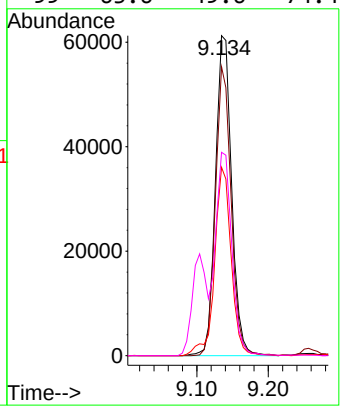


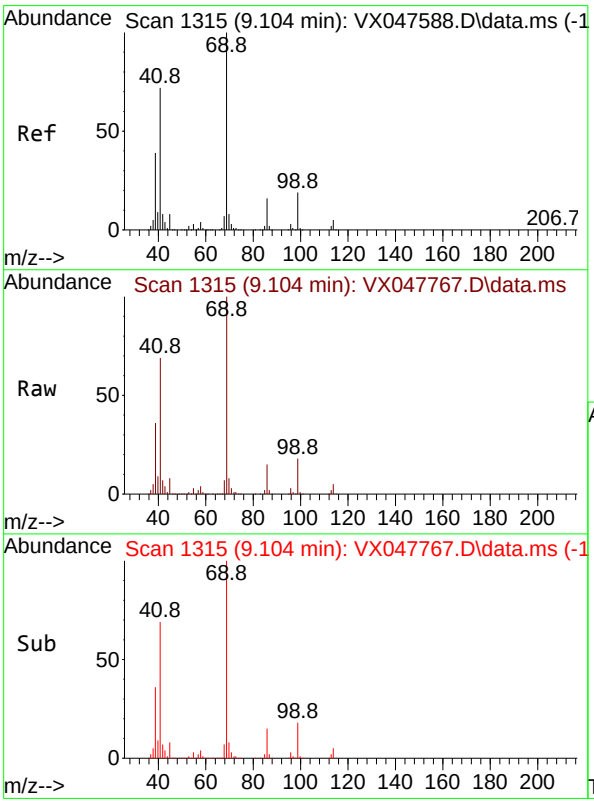
#55
1,1,2-Trichloroethane
Concen: 53.607 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 96376

Ion	Ratio	Lower	Upper
97	100		
83	90.2	69.6	104.4
85	58.8	45.0	67.6
99	63.6	49.6	74.4

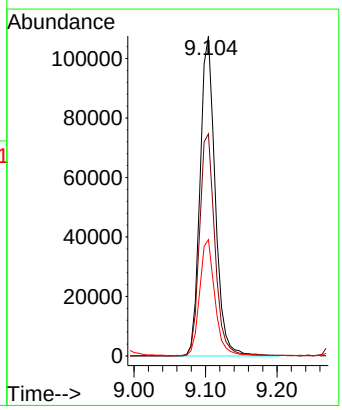


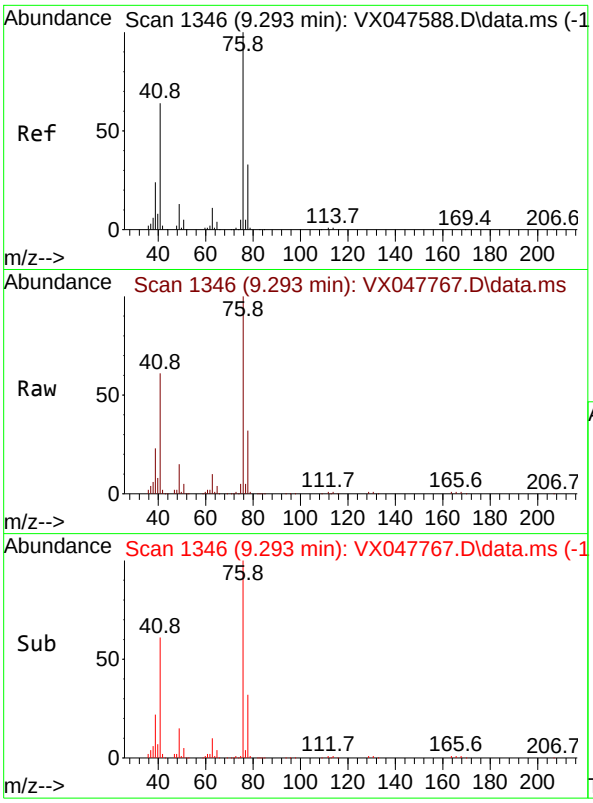


#56
Ethyl methacrylate
Concen: 56.087 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 69 Resp: 158357

Ion	Ratio	Lower	Upper
69	100		
41	70.4	58.6	87.8
39	37.1	31.5	47.3



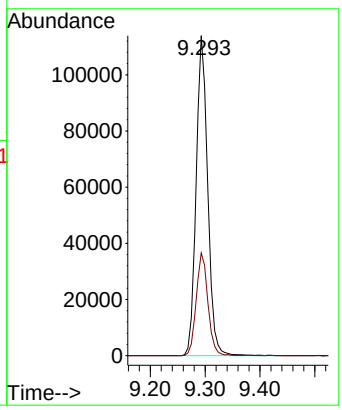


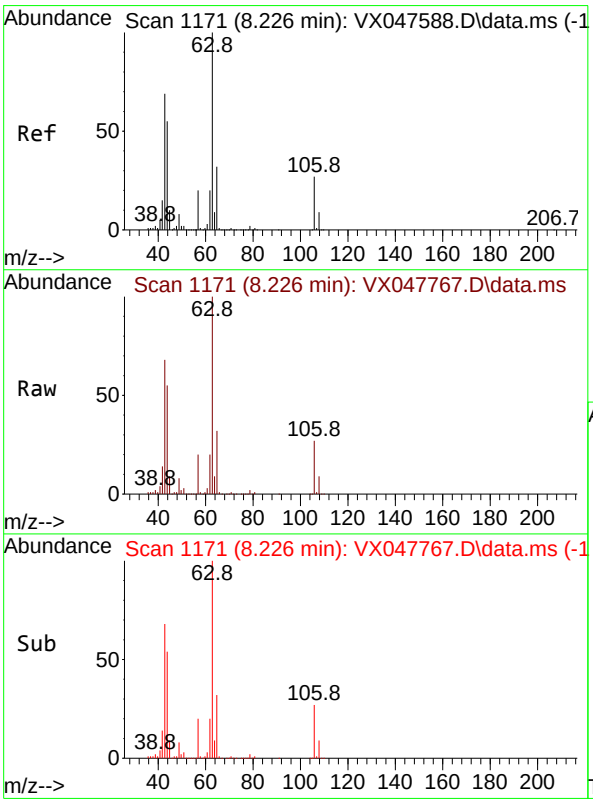
#57
1,3-Dichloropropane
Concen: 54.213 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 167428

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.4

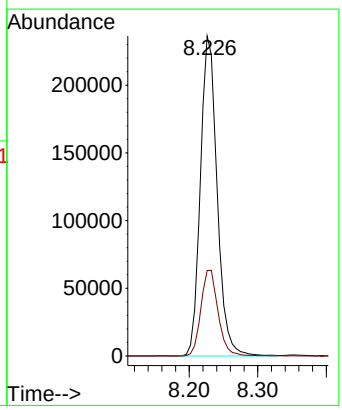


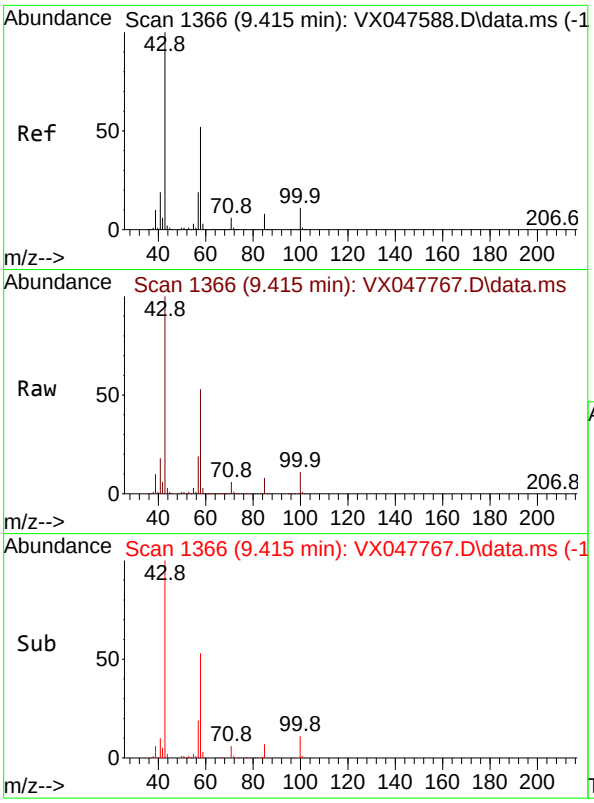


#58
2-Chloroethyl Vinyl ether
Concen: 294.817 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 63 Resp: 402380

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9



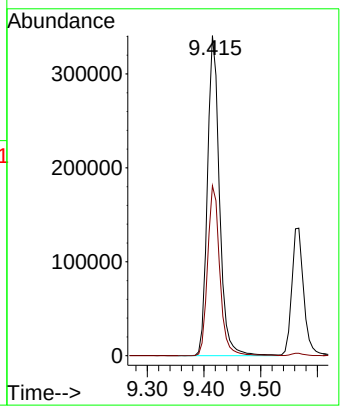


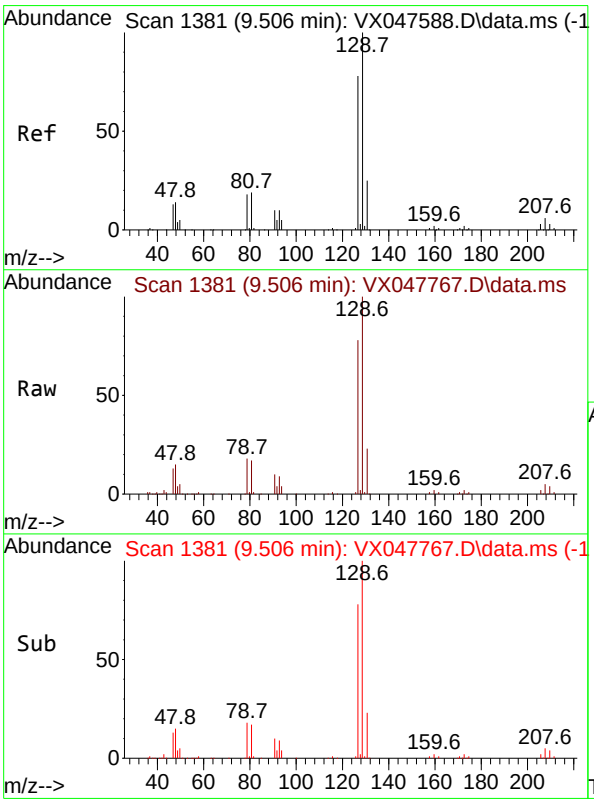
#59
2-Hexanone
Concen: 288.900 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 503351

Ion	Ratio	Lower	Upper
43	100		
58	53.6	26.1	78.2

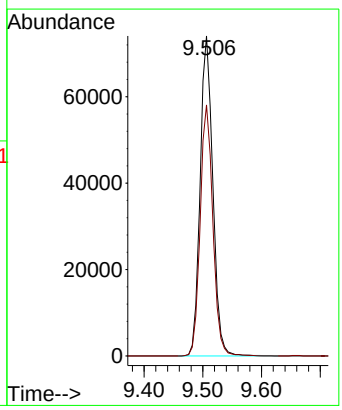


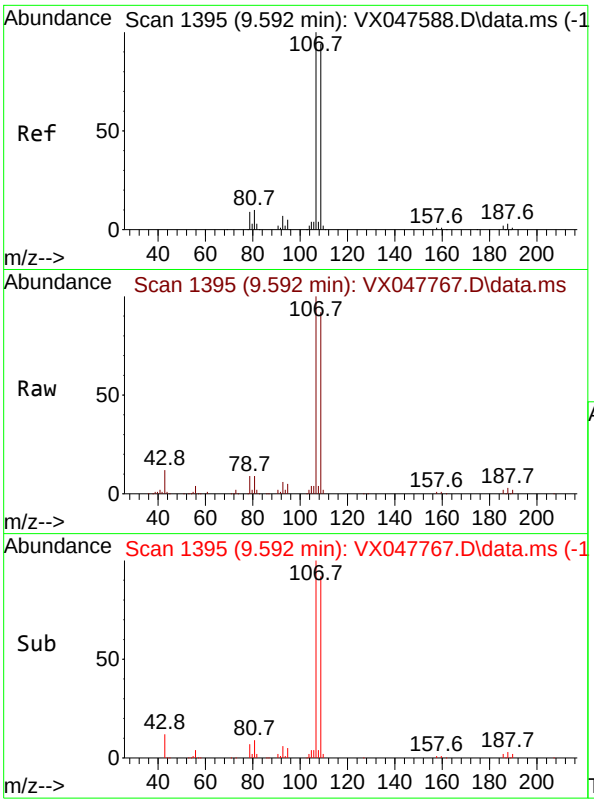


#60
Dibromochloromethane
Concen: 53.612 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:129 Resp: 111057

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.4	115.2



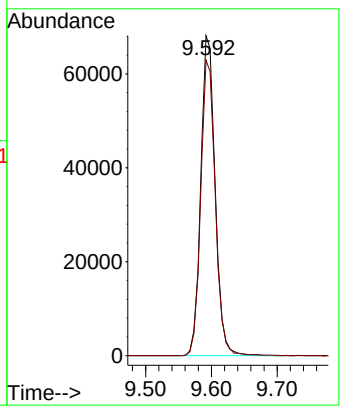


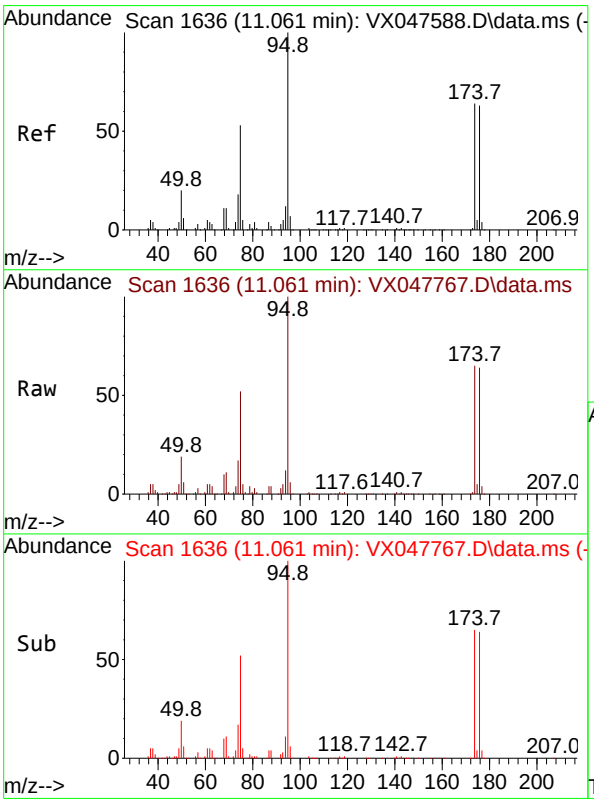
#61
1,2-Dibromoethane
Concen: 56.360 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 103205

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.3	112.9

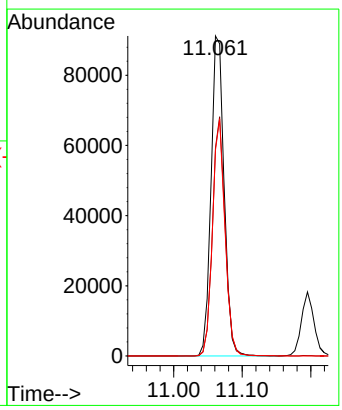


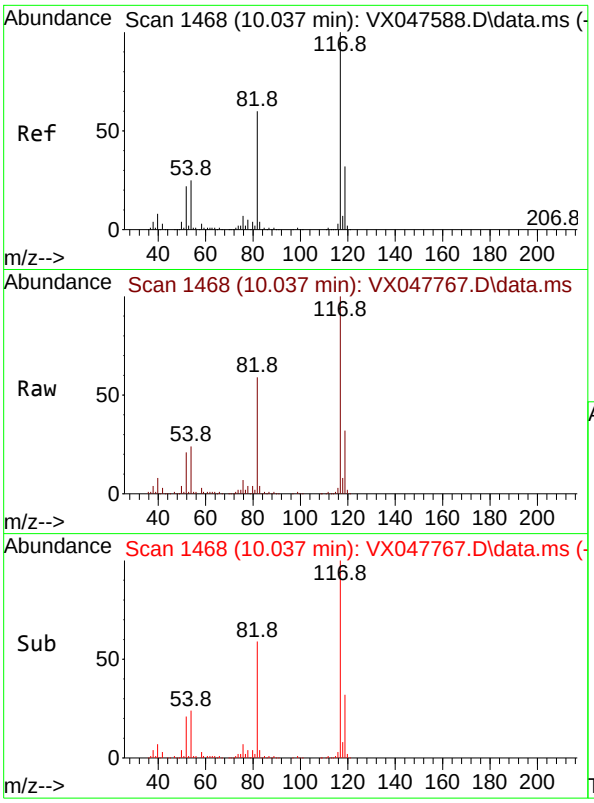


#62
4-Bromofluorobenzene
Concen: 53.949 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 95 Resp: 120804

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.6
176	70.6	0.0	138.4



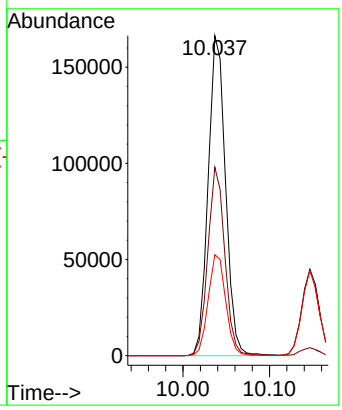


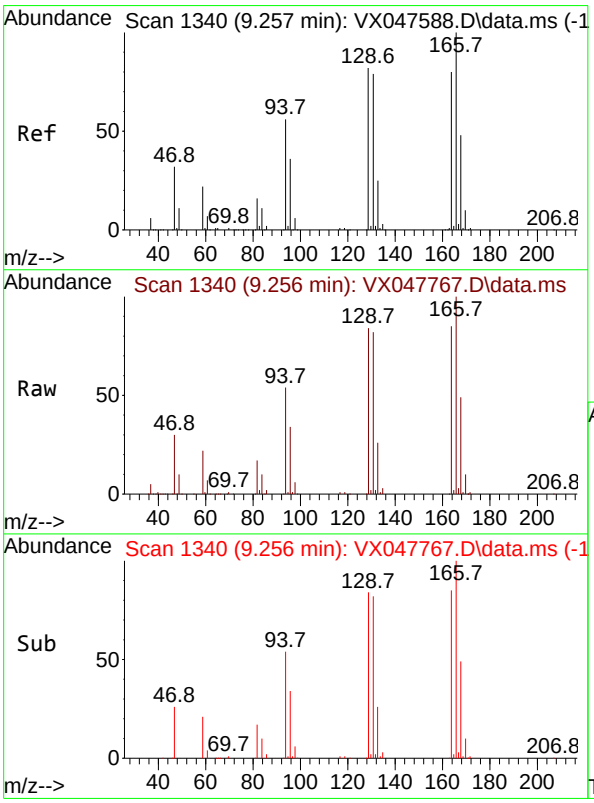
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 232007

Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.8	71.6
119	31.5	25.2	37.8

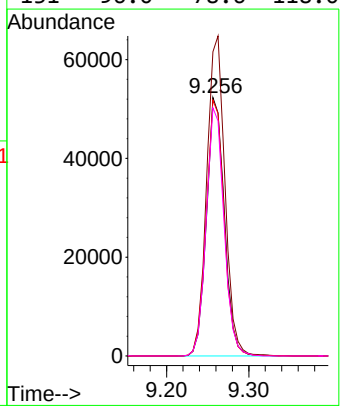


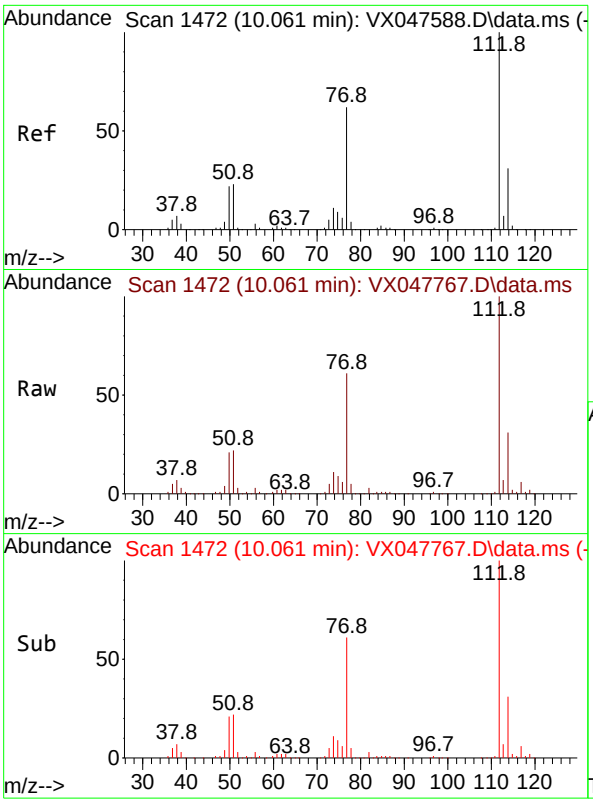


#64
Tetrachloroethene
Concen: 52.130 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:164 Resp: 78844

Ion	Ratio	Lower	Upper
164	100		
166	117.7	100.2	150.2
129	99.0	81.8	122.6
131	96.0	78.6	118.0



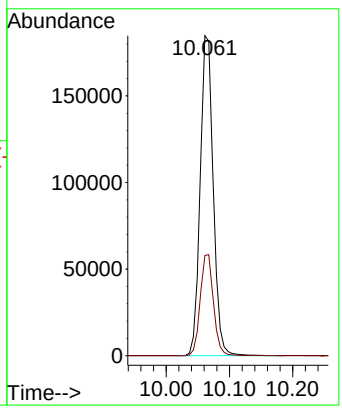


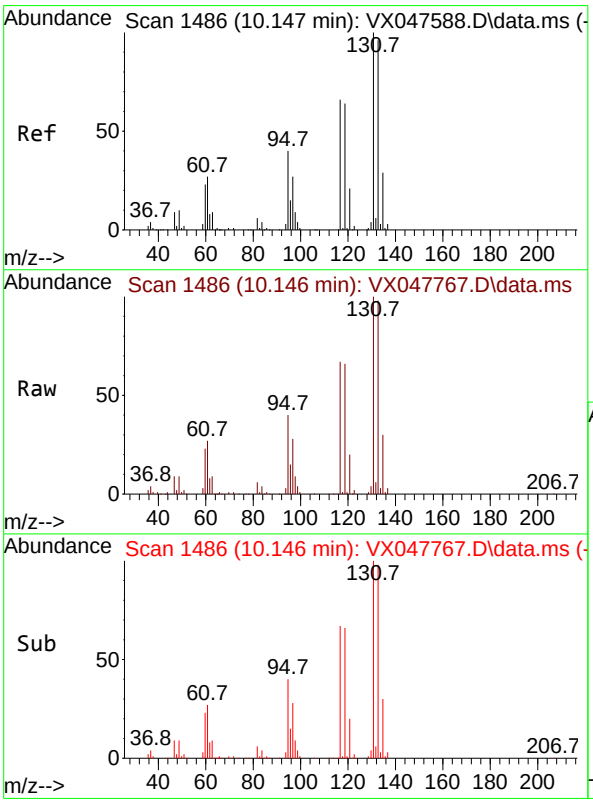
#65
Chlorobenzene
Concen: 50.402 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 265659

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.1	37.7

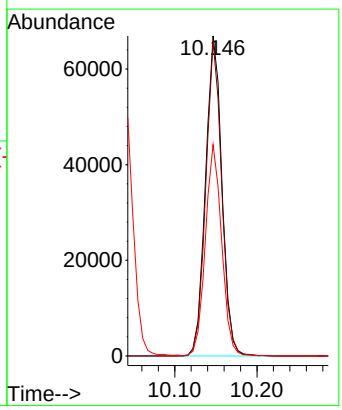


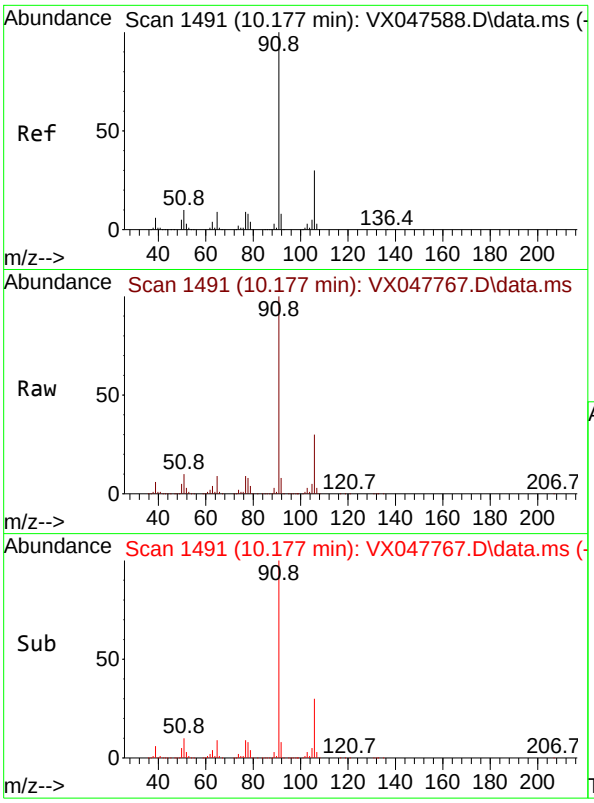


#66
1,1,1,2-Tetrachloroethane
Concen: 51.137 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:131 Resp: 93007

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	142.0
119	65.6	32.0	96.0



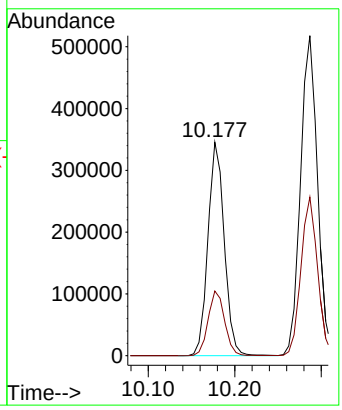


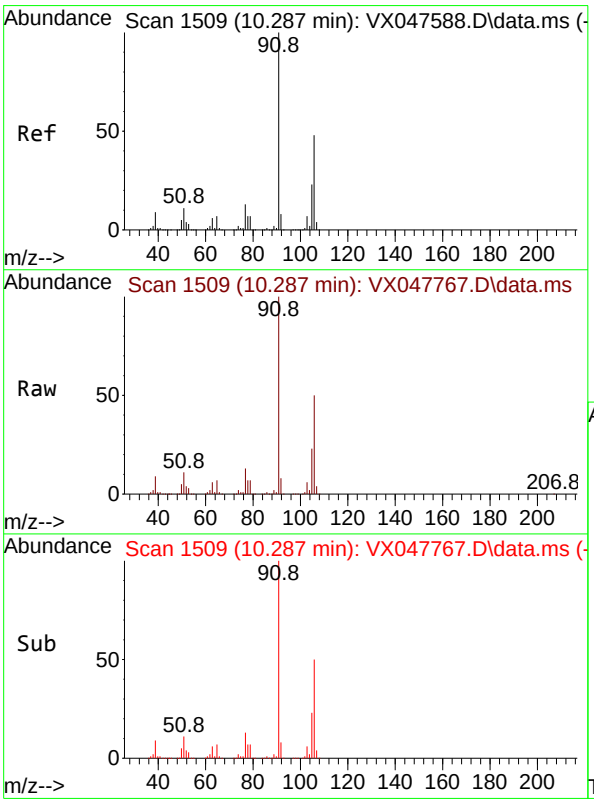
#67
Ethyl Benzene
Concen: 49.712 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 452093

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

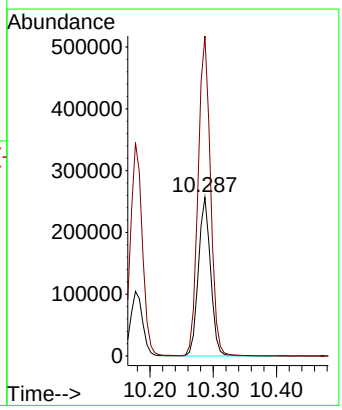


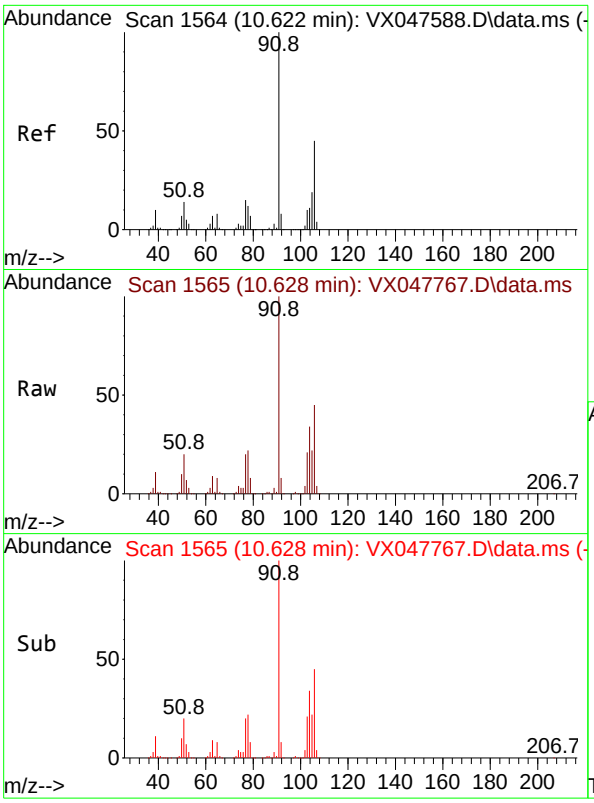


#68
m/p-Xylenes
Concen: 101.520 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:106 Resp: 343642

Ion	Ratio	Lower	Upper
106	100		
91	205.6	167.8	251.8



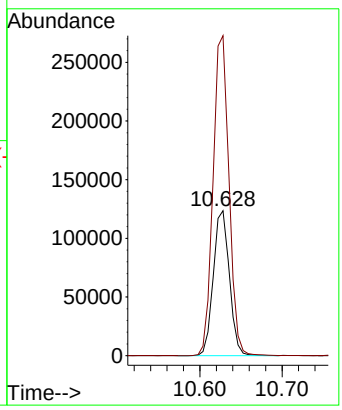


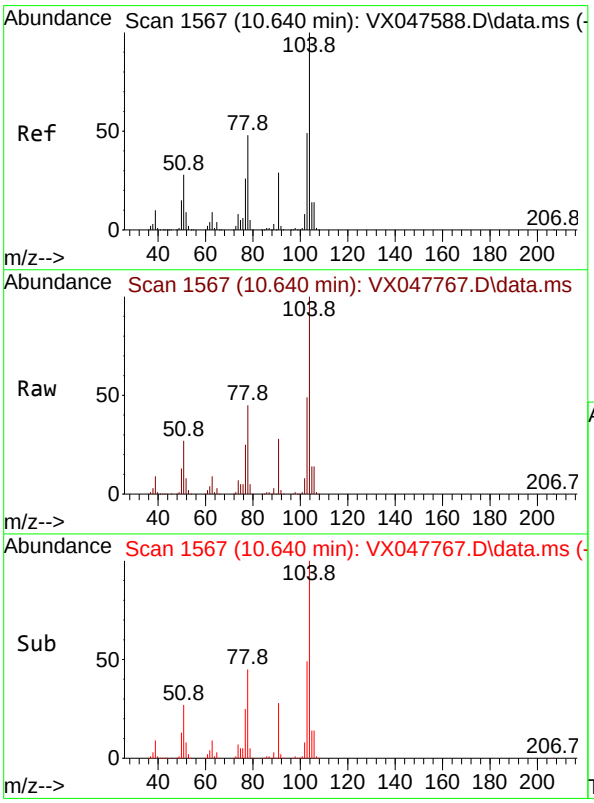
#69
o-Xylene
Concen: 51.290 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 167926

Ion	Ratio	Lower	Upper
106	100		
91	219.1	111.1	333.4

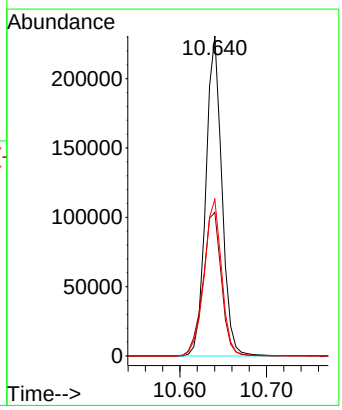


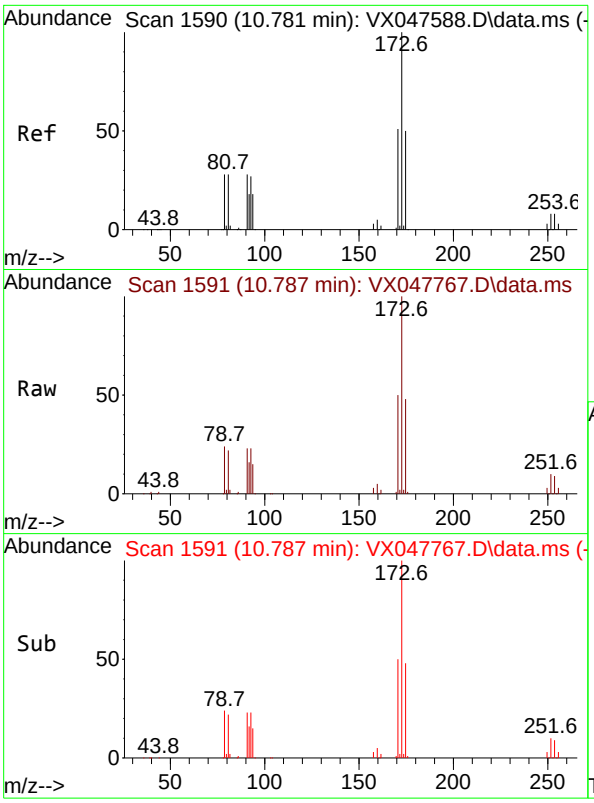


#70
Styrene
Concen: 51.662 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:104 Resp: 296373

Ion	Ratio	Lower	Upper
104	100		
78	51.6	43.1	64.7
103	53.6	43.1	64.7



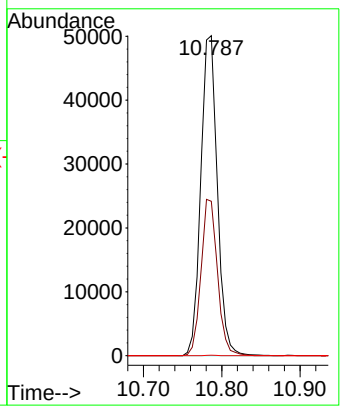


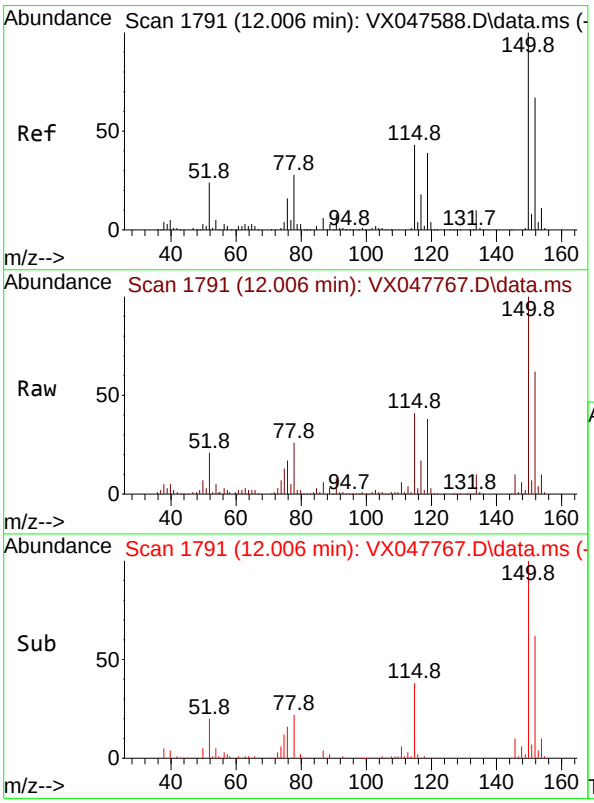
#71
Bromoform
Concen: 53.967 ug/l
RT: 10.787 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 73291

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.9	74.6
254	0.1	0.1	0.1

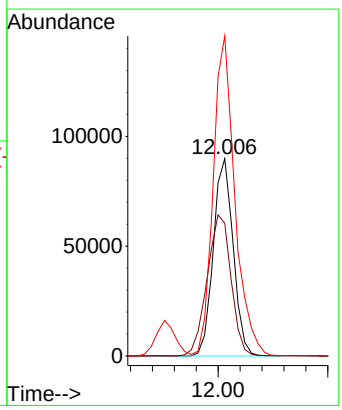


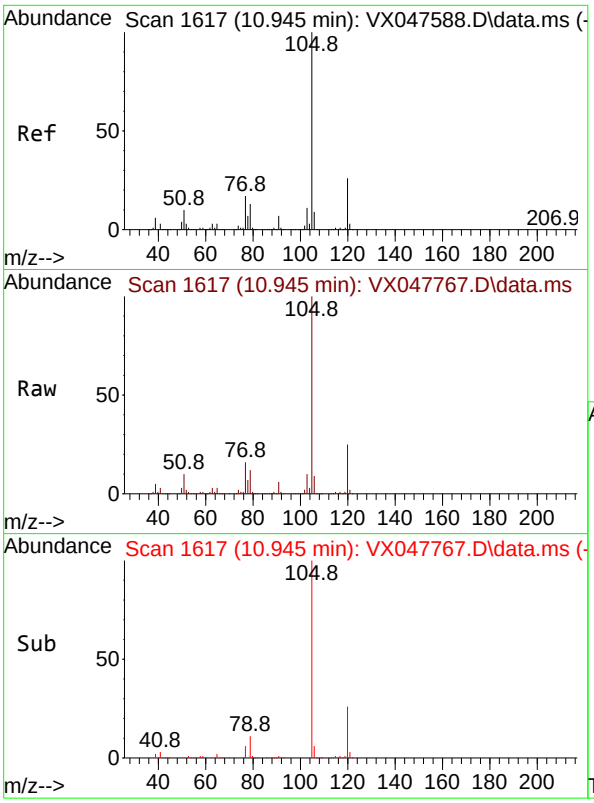


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:152 Resp: 113030

Ion	Ratio	Lower	Upper
152	100		
115	86.3	44.9	134.5
150	177.1	0.0	352.0



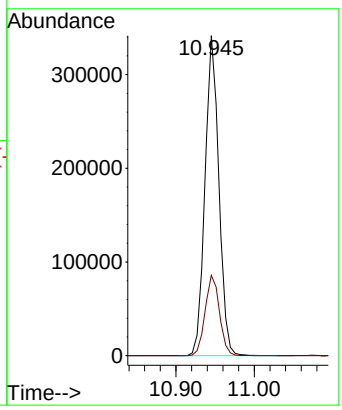


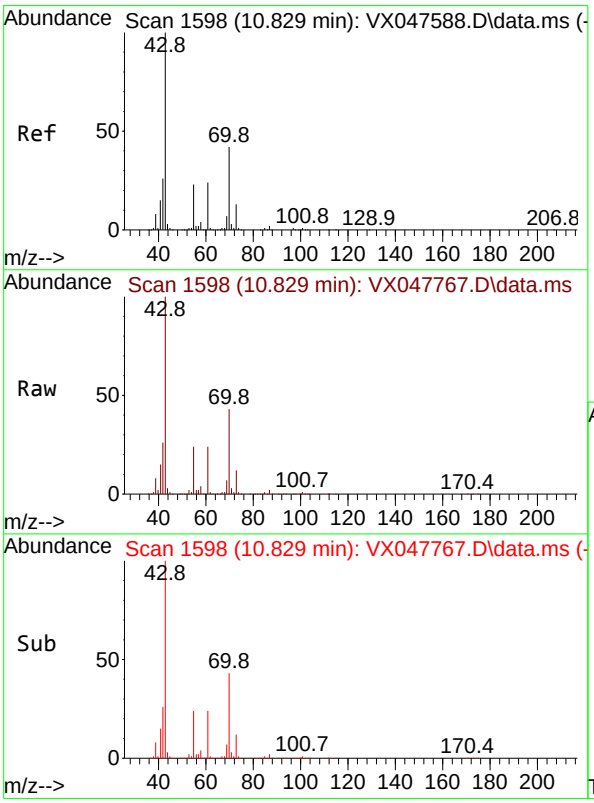
#73
Isopropylbenzene
Concen: 48.594 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 417583

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

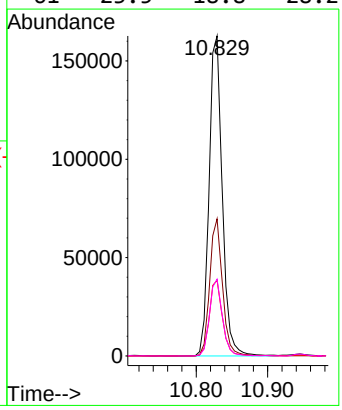


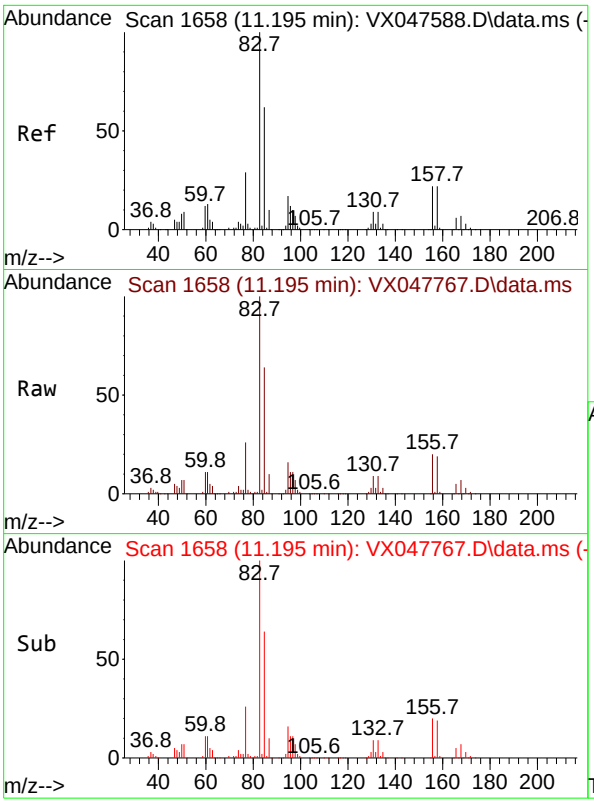


#74
N-amyl acetate
Concen: 53.032 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 43 Resp: 207812

Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.0	48.0
55	23.5	18.9	28.3
61	23.5	18.8	28.2



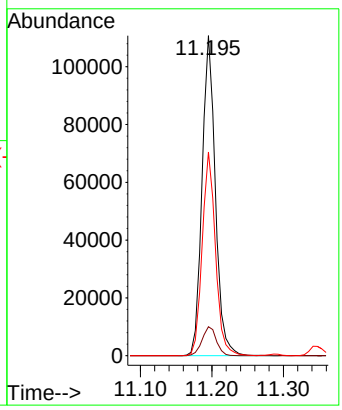


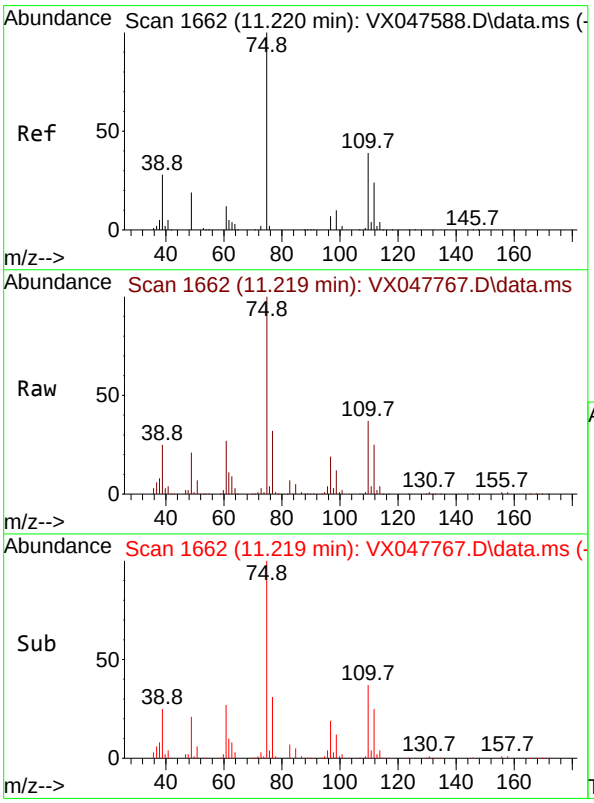
#75
1,1,2,2-Tetrachloroethane
Concen: 54.960 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 142889

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	63.7	31.6	95.0

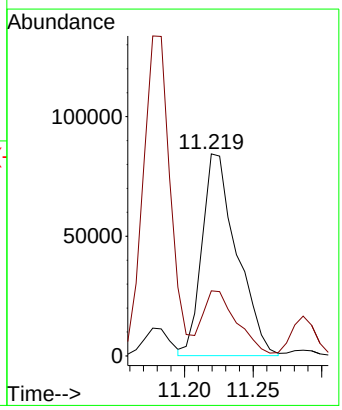


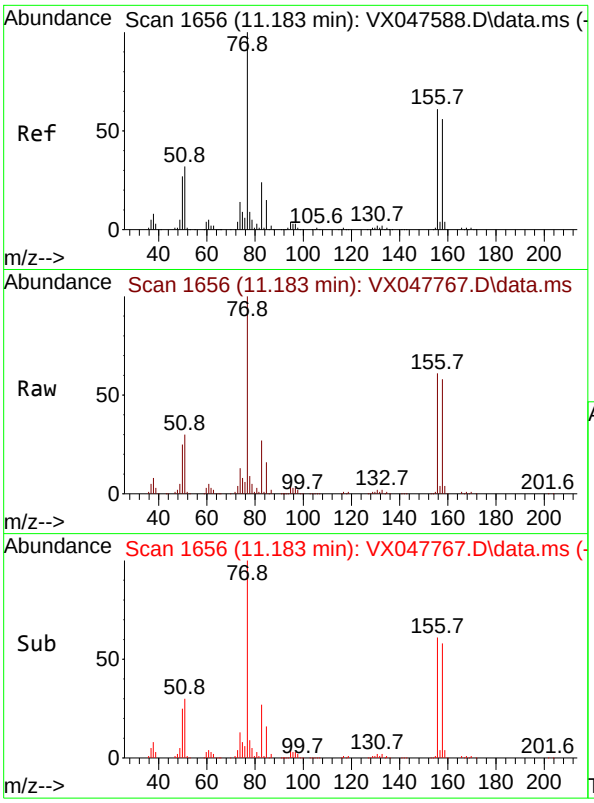


#76
1,2,3-Trichloropropane
Concen: 65.308 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 149457

Ion	Ratio	Lower	Upper
75	100		
77	31.0	18.8	56.4



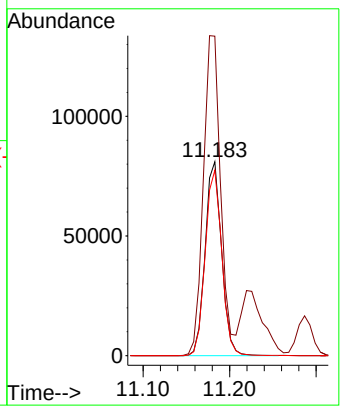


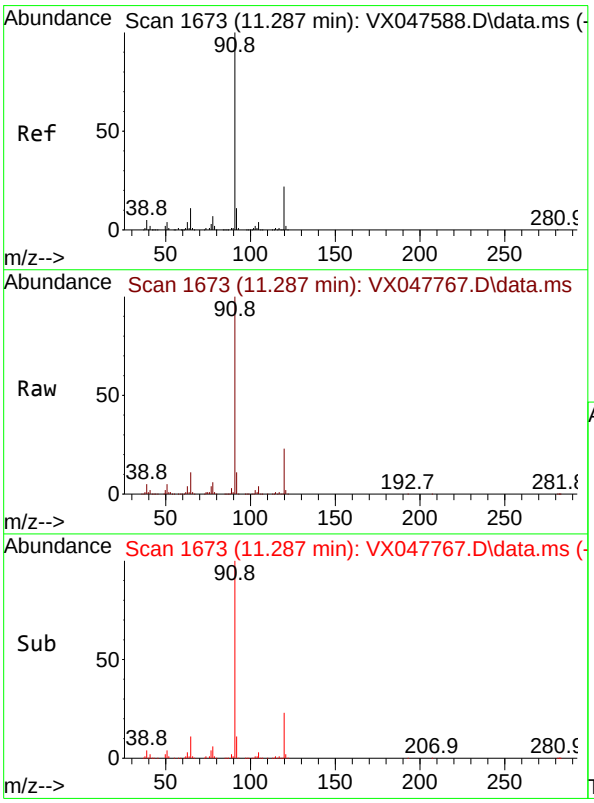
#77
Bromobenzene
Concen: 50.657 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 107213

Ion	Ratio	Lower	Upper
156	100		
77	173.5	89.7	269.1
158	96.2	47.9	143.6

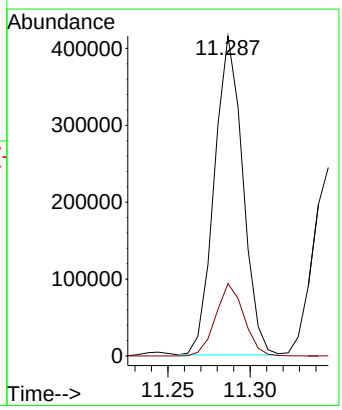


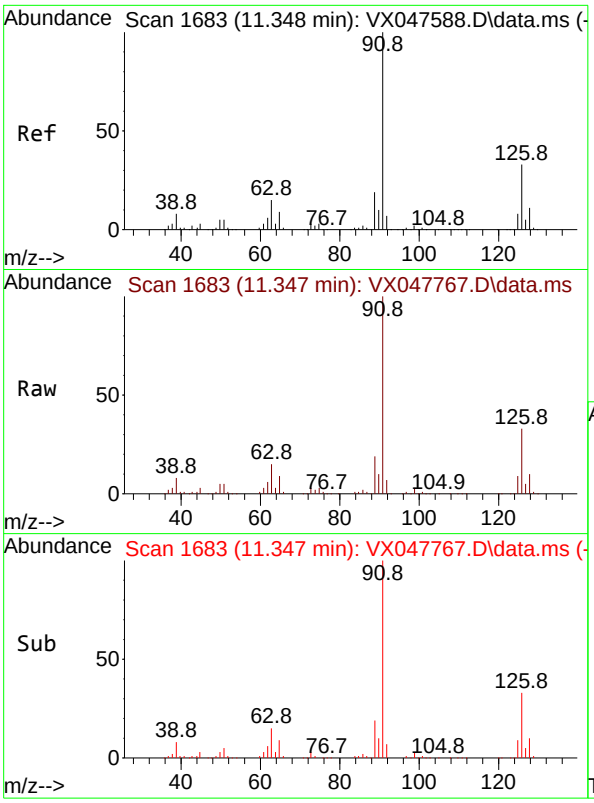


#78
n-propylbenzene
Concen: 49.095 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 498719

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.1



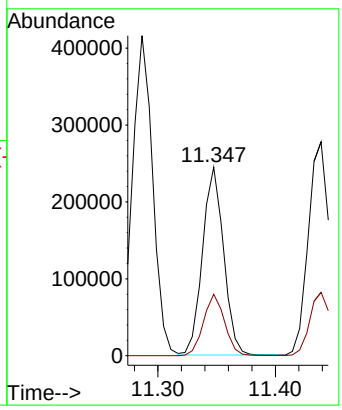


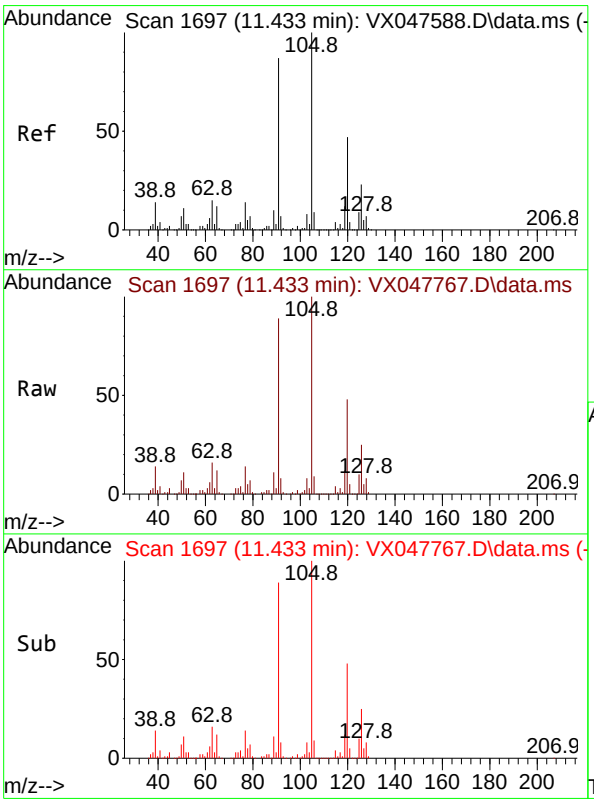
#79
2-Chlorotoluene
Concen: 49.006 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 304904

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3

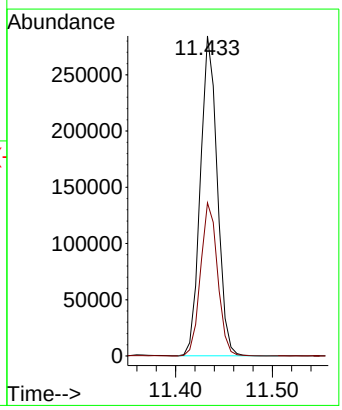


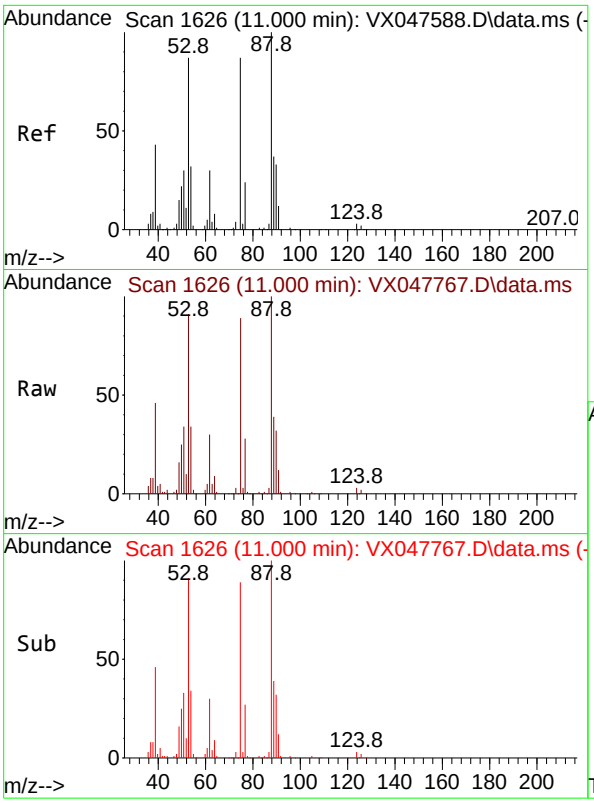


#80
1,3,5-Trimethylbenzene
Concen: 49.006 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 345988

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.6	70.8



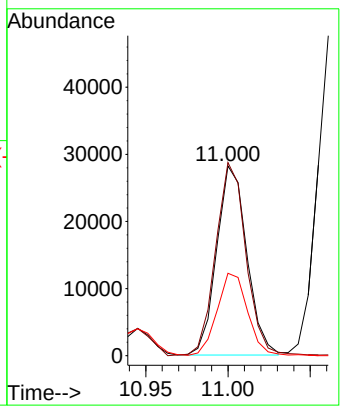


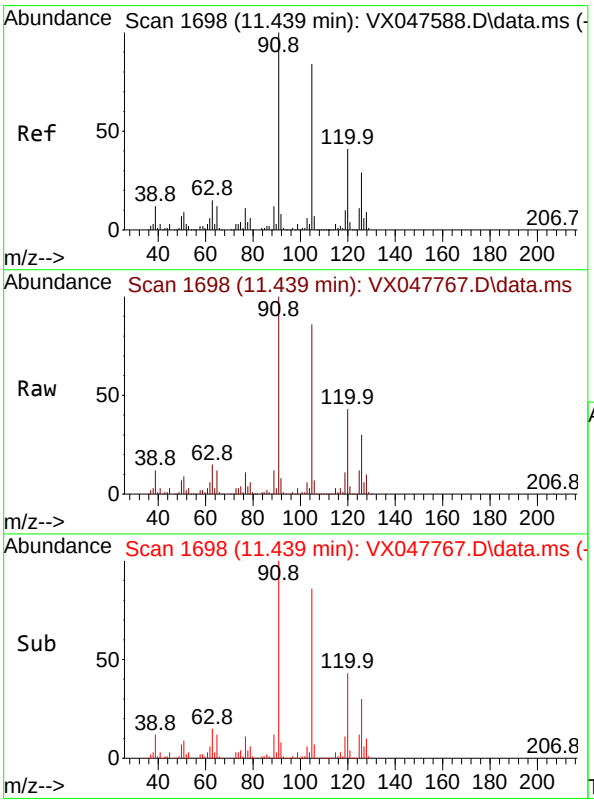
#81
trans-1,4-Dichloro-2-butene
Concen: 40.018 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 35912

Ion	Ratio	Lower	Upper
75	100		
53	102.9	83.4	125.2
89	44.3	36.3	54.5

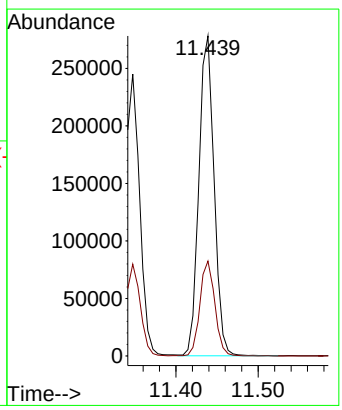


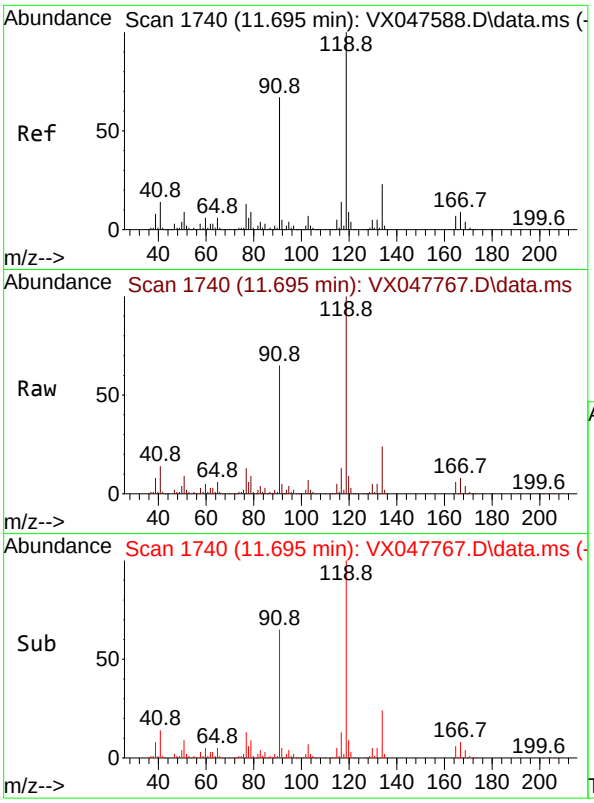


#82
4-Chlorotoluene
Concen: 48.683 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 91 Resp: 357733

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6



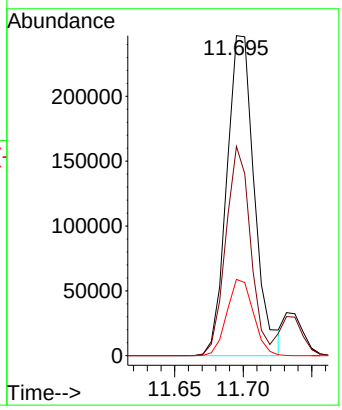


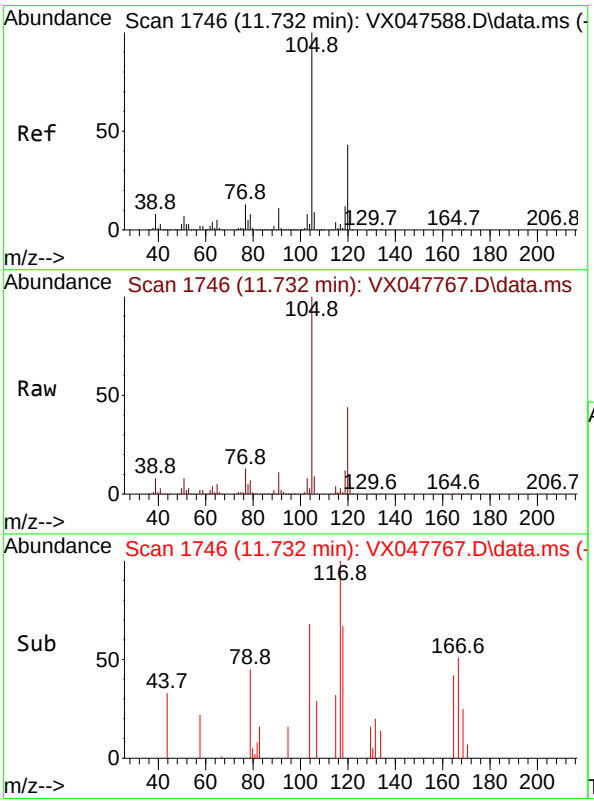
#83
tert-Butylbenzene
Concen: 47.879 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 346038

Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.6	88.8
134	22.9	11.0	33.0

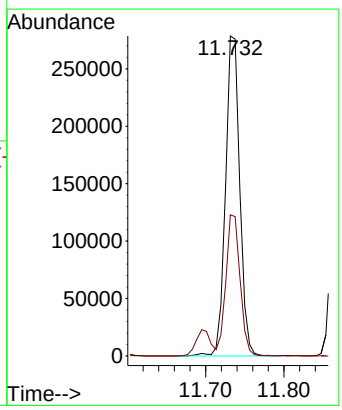


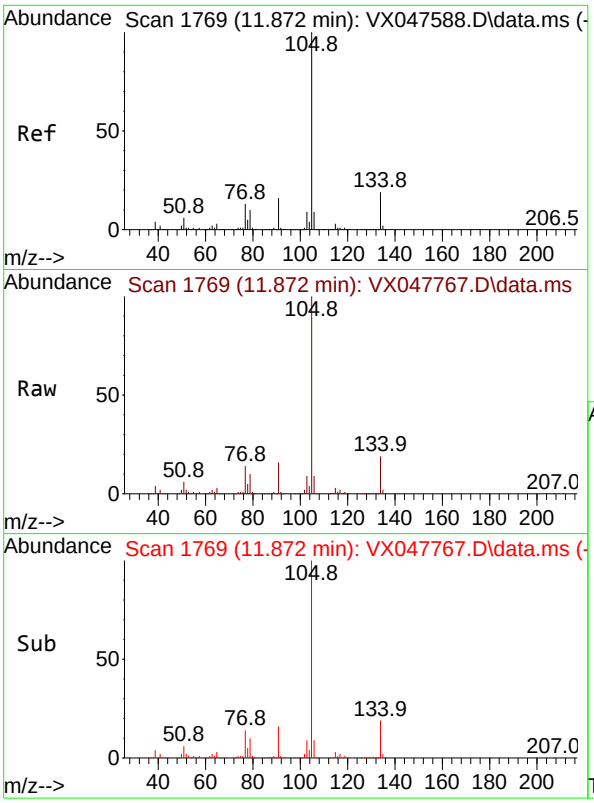


#84
1,2,4-Trimethylbenzene
Concen: 49.355 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:105 Resp: 353276

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1



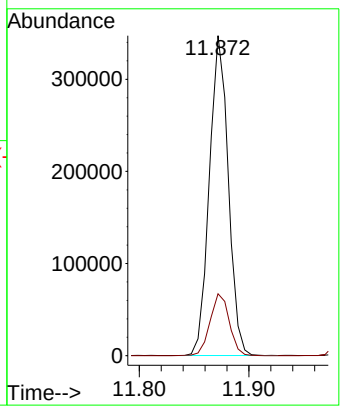


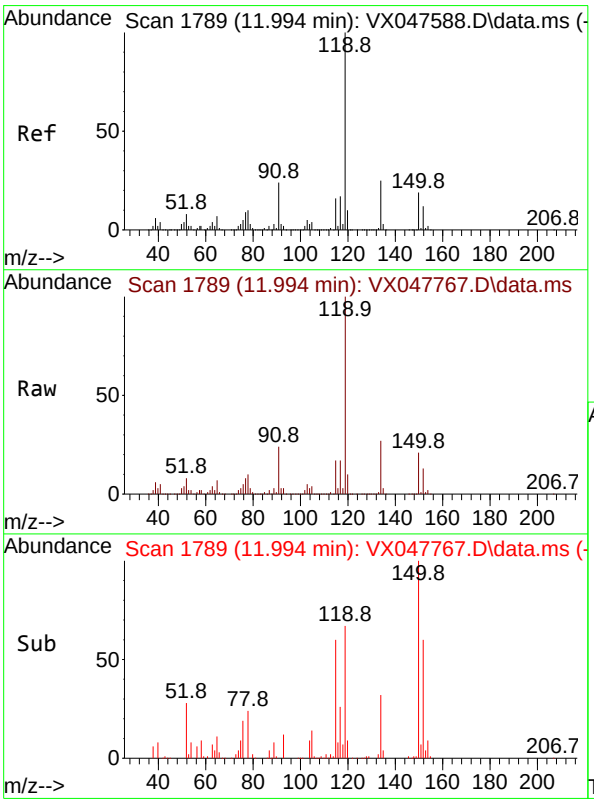
#85
sec-Butylbenzene
Concen: 48.459 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 415999

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

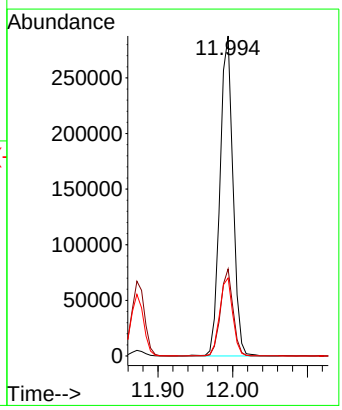


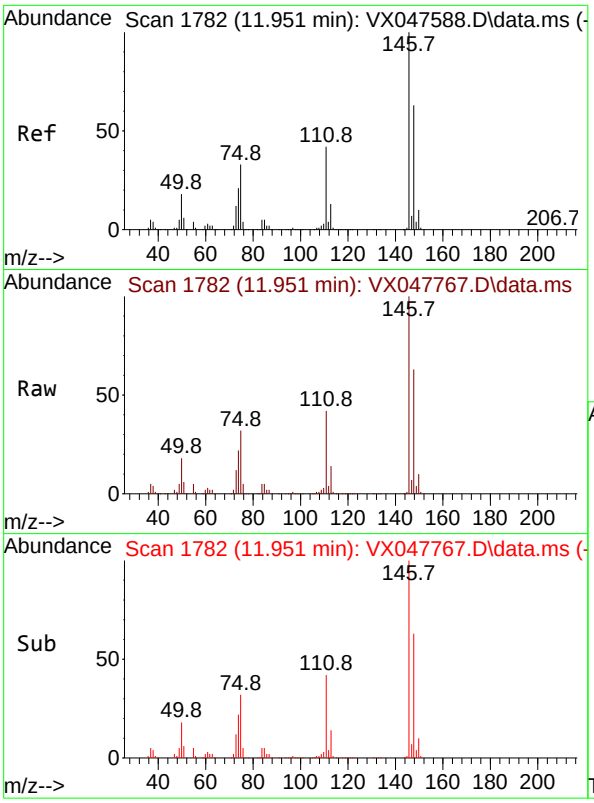


#86
p-Isopropyltoluene
Concen: 47.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:119 Resp: 348647

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	24.6	12.6	37.6



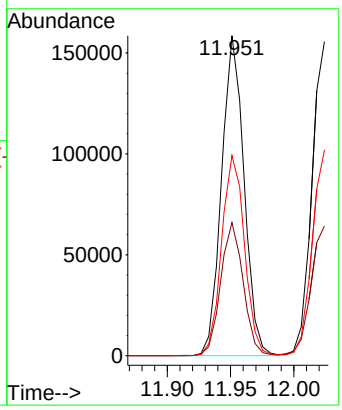


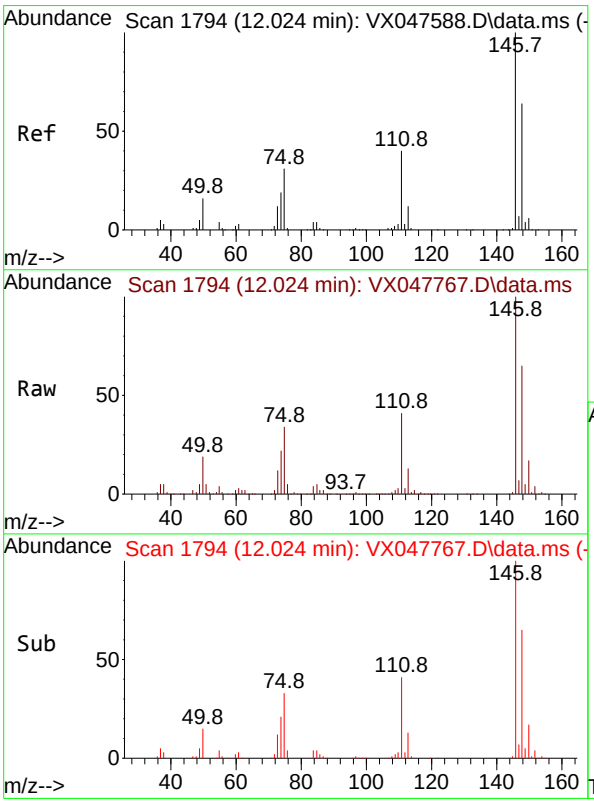
#87
1,3-Dichlorobenzene
Concen: 49.790 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 195732

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.5	64.5
148	63.8	32.0	96.0

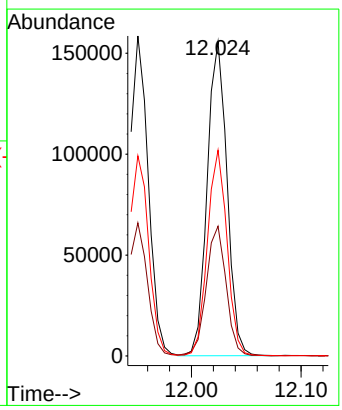


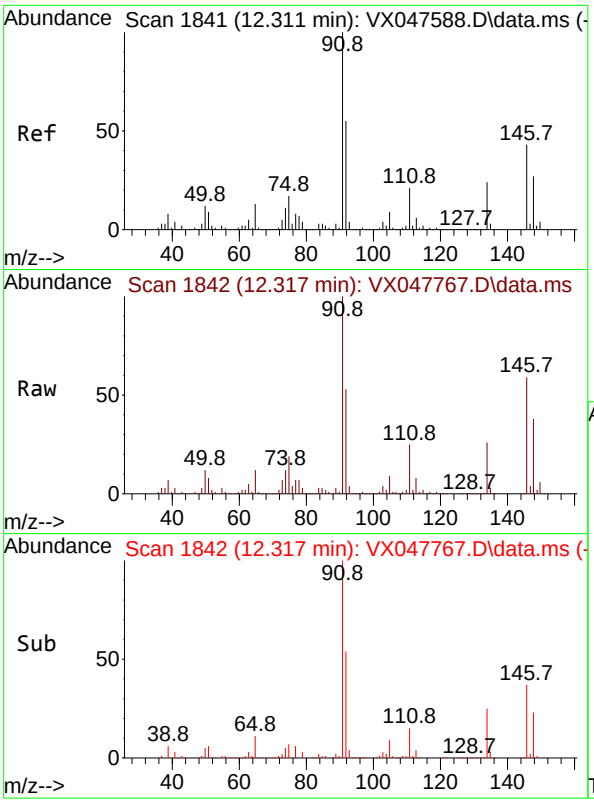


#88
1,4-Dichlorobenzene
Concen: 48.435 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:146 Resp: 195422

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	64.8	31.7	95.1



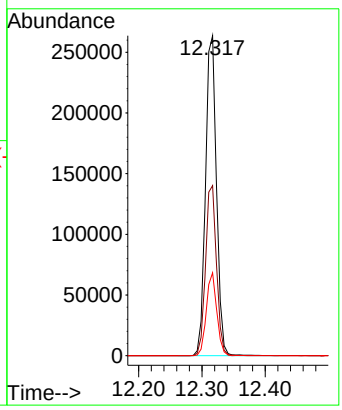


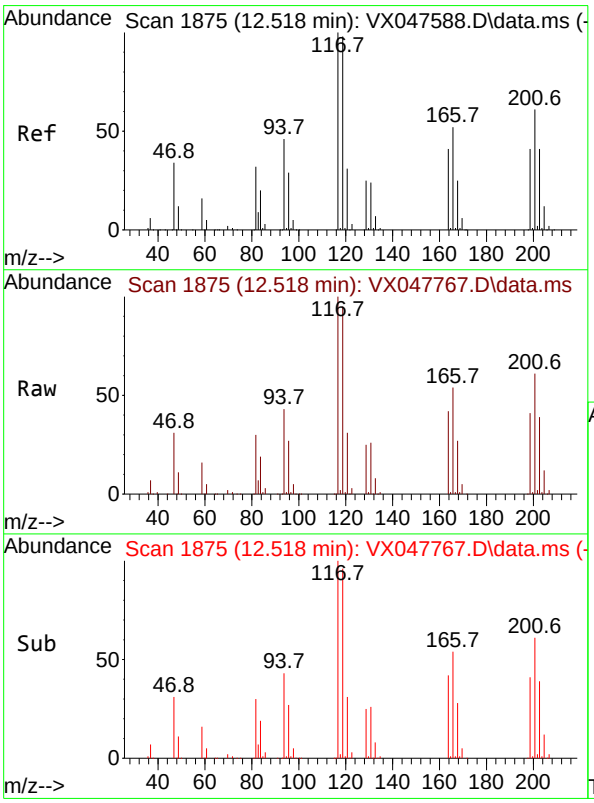
#89
n-Butylbenzene
Concen: 47.254 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 317773

Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.6	82.7
134	24.7	12.6	37.8

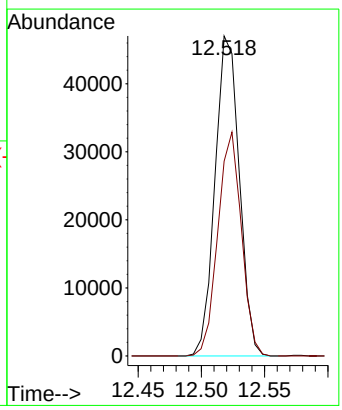


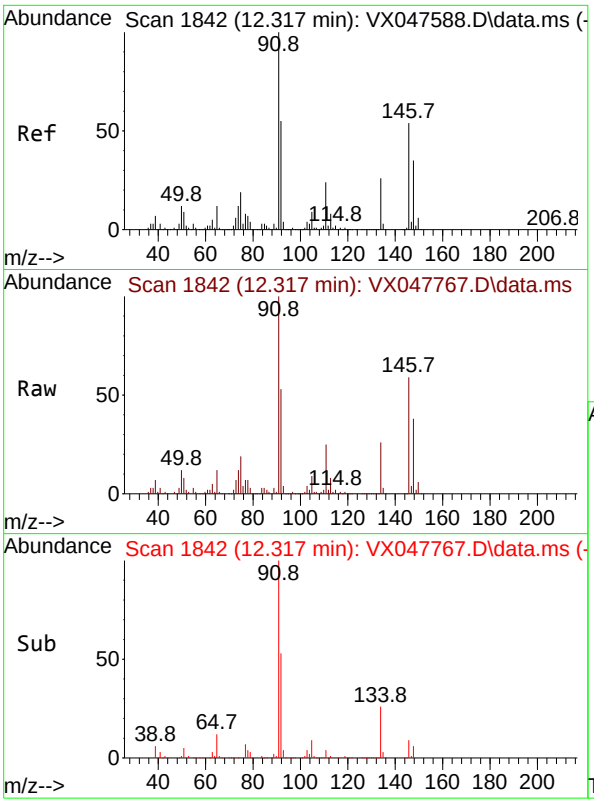


#90
Hexachloroethane
Concen: 49.203 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:117 Resp: 62783

Ion	Ratio	Lower	Upper
117	100		
201	67.8	34.2	102.5



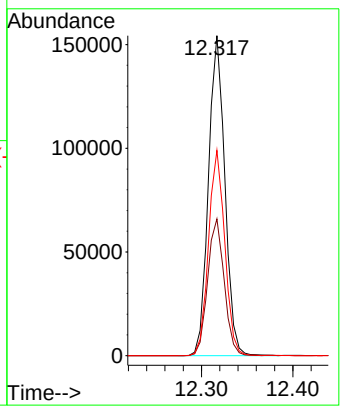


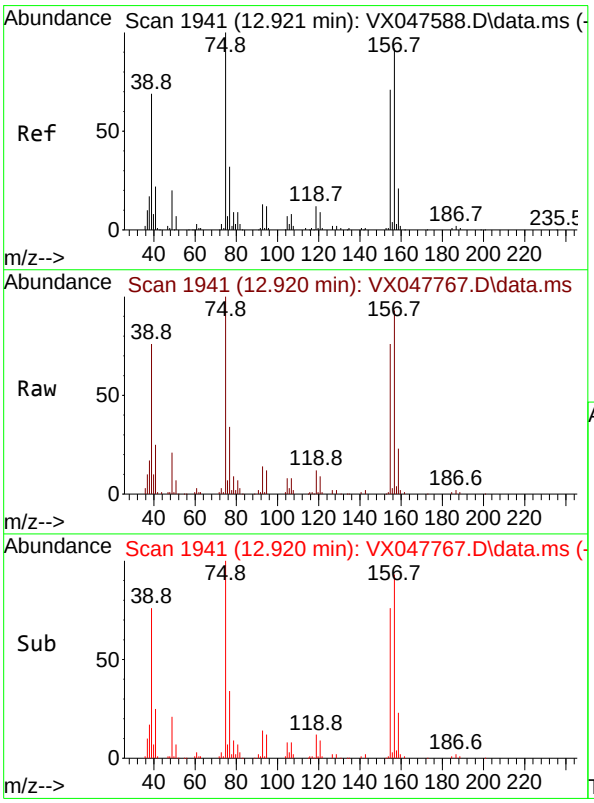
#91
1,2-Dichlorobenzene
Concen: 51.187 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 191705

Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.2	66.6
148	63.5	31.8	95.4

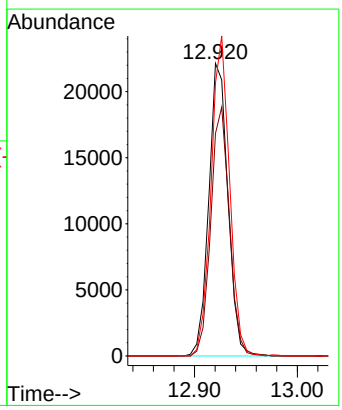


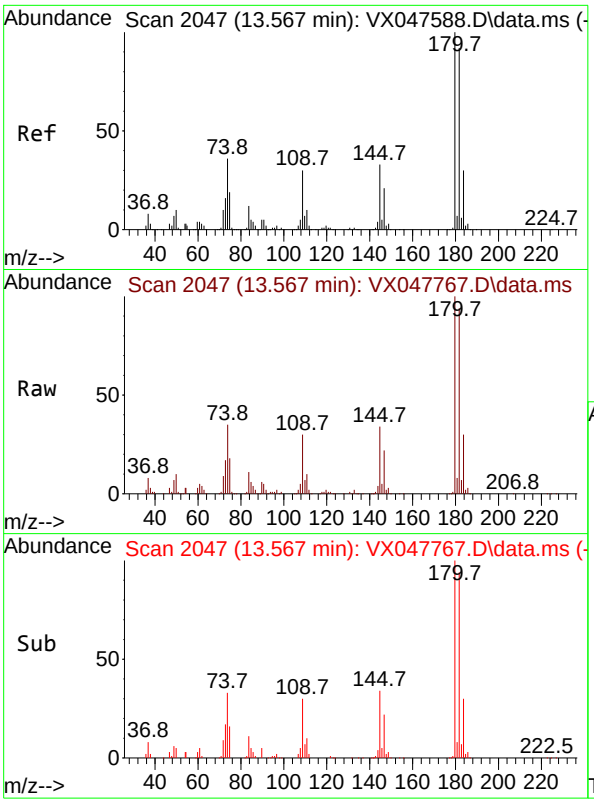


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.516 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion: 75 Resp: 28696

Ion	Ratio	Lower	Upper
75	100		
155	82.5	37.7	113.1
157	105.1	49.8	149.4



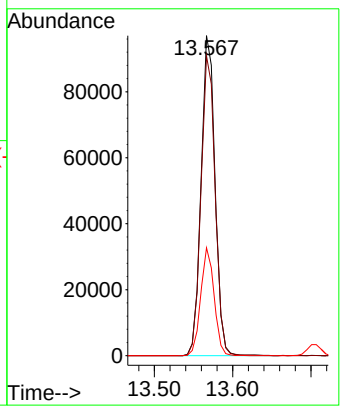


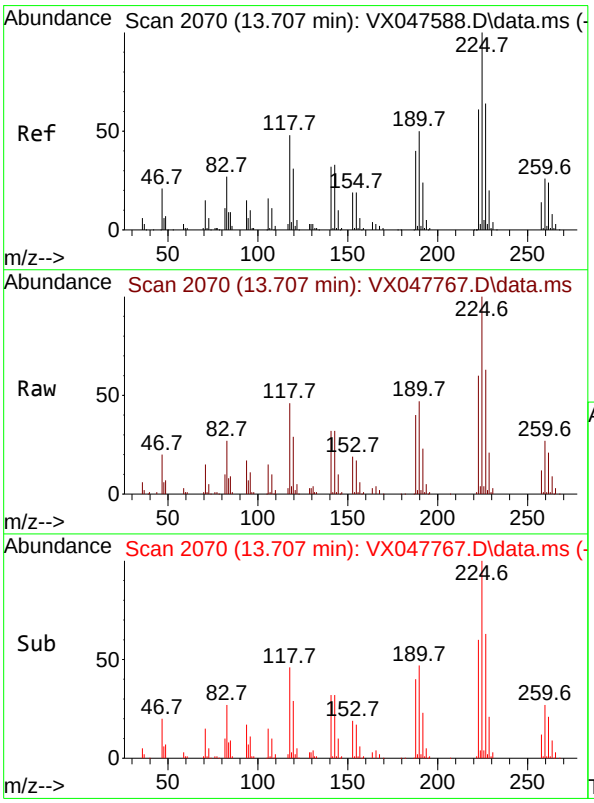
#93
1,2,4-Trichlorobenzene
Concen: 49.199 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 119753

Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.6	139.8
145	32.5	16.4	49.1

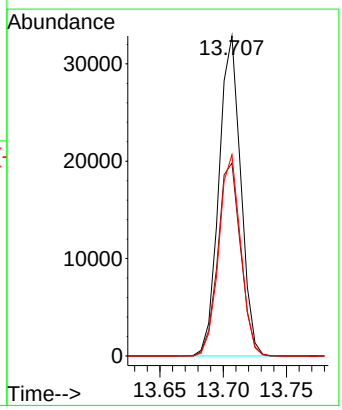


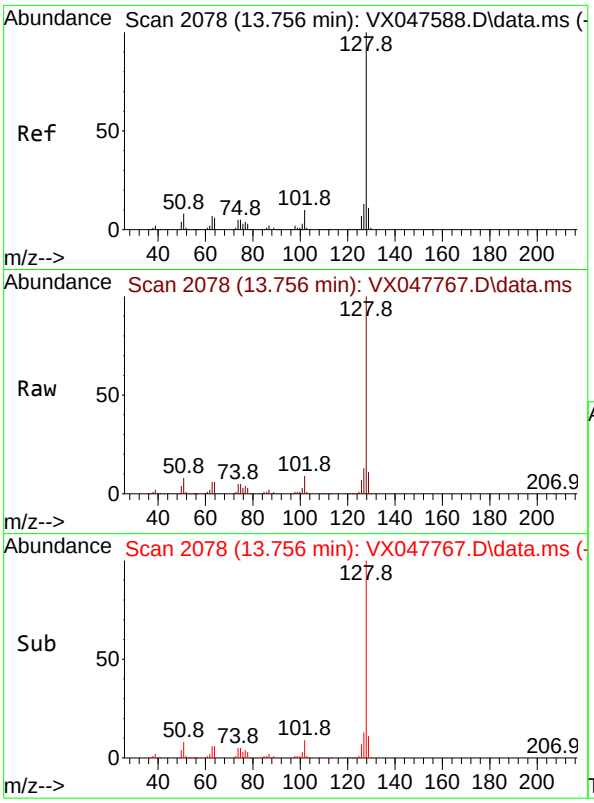


#94
Hexachlorobutadiene
Concen: 47.499 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:225 Resp: 39271

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.7	95.1
227	62.9	32.0	96.0



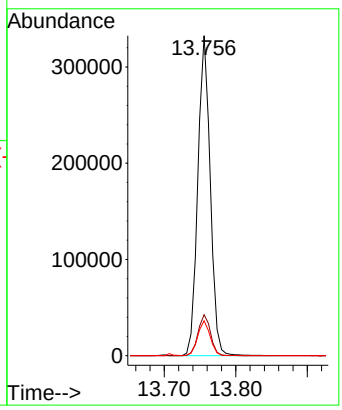


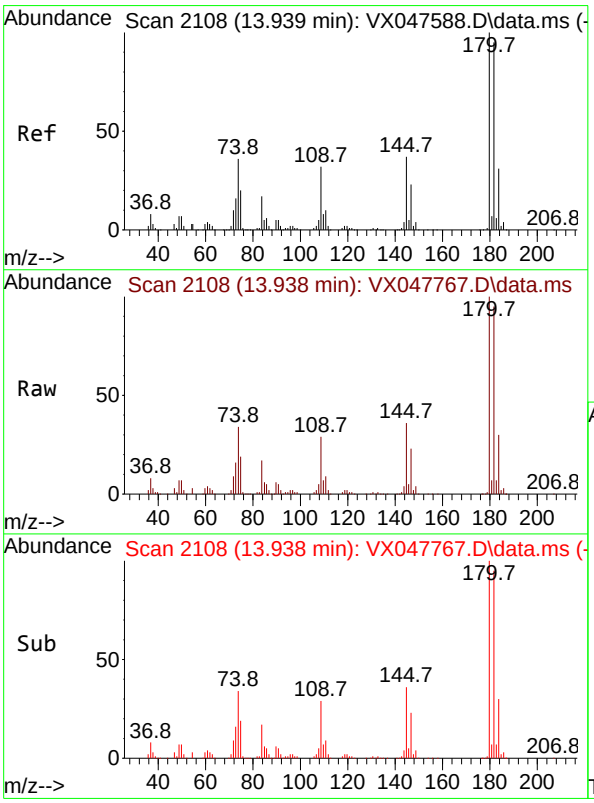
#95
Naphthalene
Concen: 54.002 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 400255

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2

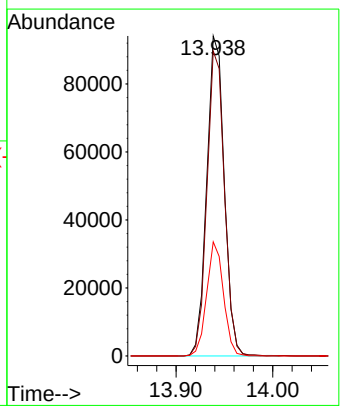




#96
1,2,3-Trichlorobenzene
Concen: 52.369 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047767.D
Acq: 24 Sep 2025 10:50

Tgt Ion:180 Resp: 118573

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.6	142.8
145	34.2	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	144936	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	262651	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	234932	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	125490	54.395	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.780%			
35) Dibromofluoromethane	5.367	113	96384	54.718	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.440%			
50) Toluene-d8	8.635	98	323192	53.025	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.060%			
62) 4-Bromofluorobenzene	11.061	95	121324	52.449	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	89442	59.595	ug/l	97
3) Chloromethane	1.301	50	110955	56.251	ug/l	100
4) Vinyl Chloride	1.380	62	105587	54.684	ug/l	100
5) Bromomethane	1.618	94	67448	55.087	ug/l	95
6) Chloroethane	1.691	64	68714	53.245	ug/l	100
7) Trichlorofluoromethane	1.892	101	148967	51.960	ug/l	97
8) Diethyl Ether	2.136	74	63740	54.350	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	87886	52.426	ug/l	100
10) Methyl Iodide	2.453	142	133625	51.110	ug/l	100
11) Tert butyl alcohol	2.941	59	72643	282.723	ug/l	100
12) 1,1-Dichloroethene	2.319	96	89522	51.987	ug/l	95
13) Acrolein	2.233	56	66500	280.858	ug/l	98
14) Allyl chloride	2.660	41	167585	47.162	ug/l	96
15) Acrylonitrile	3.056	53	295866	310.874	ug/l	99
16) Acetone	2.374	43	237549	236.815	ug/l	99
17) Carbon Disulfide	2.514	76	248080	52.625	ug/l	99
18) Methyl Acetate	2.697	43	138191	61.903	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	344812	54.854	ug/l	100
20) Methylene Chloride	2.782	84	114851	54.091	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	98912	53.353	ug/l	100
22) Diisopropyl ether	3.745	45	374002	54.309	ug/l #	81
23) Vinyl Acetate	3.709	43	1524747	276.642	ug/l	100
24) 1,1-Dichloroethane	3.605	63	193428	52.845	ug/l	99
25) 2-Butanone	4.538	43	357769	285.932	ug/l	99
26) 2,2-Dichloropropane	4.465	77	69736	22.920	ug/l	91
27) cis-1,2-Dichloroethene	4.471	96	120574	53.106	ug/l	93
28) Bromochloromethane	4.879	49	84604	52.945	ug/l	99
29) Tetrahydrofuran	4.983	42	224794	298.644	ug/l	99
30) Chloroform	5.074	83	196569	53.144	ug/l	97
31) Cyclohexane	5.452	56	152895	50.154	ug/l	98
32) 1,1,1-Trichloroethane	5.367	97	160765	51.242	ug/l	99
36) 1,1-Dichloropropene	5.678	75	124159	48.237	ug/l	98
37) Ethyl Acetate	4.696	43	151768	55.069	ug/l	99
38) Carbon Tetrachloride	5.666	117	135392	48.413	ug/l	100
39) Methylcyclohexane	7.361	83	141473	48.420	ug/l	100
40) Benzene	6.019	78	404676	51.764	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.898	41	82213	57.784	ug/l	98
42) 1,2-Dichloroethane	6.068	62	151181	50.825	ug/l	98
43) Isopropyl Acetate	6.318	43	249260	55.147	ug/l	98
44) Trichloroethene	7.111	130	98697	52.220	ug/l	92
45) 1,2-Dichloropropane	7.409	63	105950	52.927	ug/l	98
46) Dibromomethane	7.562	93	77988	53.536	ug/l	98
47) Bromodichloromethane	7.806	83	157033	52.239	ug/l	96
48) Methyl methacrylate	7.678	41	125046	55.541	ug/l	98
49) 1,4-Dioxane	7.647	88	31029	1363.725	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	743688	296.757	ug/l	100
52) Toluene	8.702	92	246870	51.255	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	142087	46.340	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	152733	46.603	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	100531	54.130	ug/l	99
56) Ethyl methacrylate	9.098	69	163699	56.125	ug/l	97
57) 1,3-Dichloropropane	9.293	76	173795	54.475	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	416075	295.083	ug/l	99
59) 2-Hexanone	9.415	43	523995	291.132	ug/l	99
60) Dibromochloromethane	9.507	129	114327	53.426	ug/l	98
61) 1,2-Dibromoethane	9.592	107	104712	55.355	ug/l	99
64) Tetrachloroethene	9.257	164	80858	52.796	ug/l	97
65) Chlorobenzene	10.061	112	268000	50.214	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	94676	51.406	ug/l	99
67) Ethyl Benzene	10.177	91	458381	49.776	ug/l	98
68) m/p-Xylenes	10.287	106	345991	100.941	ug/l	99
69) o-Xylene	10.622	106	169360	51.084	ug/l	98
70) Styrene	10.640	104	298721	51.423	ug/l	98
71) Bromoform	10.781	173	74635	54.272	ug/l	98
73) Isopropylbenzene	10.945	105	425664	49.073	ug/l	100
74) N-amyl acetate	10.823	43	213456	53.964	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	142930	54.463	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	151302	65.498	ug/l	92
77) Bromobenzene	11.183	156	108405	50.743	ug/l	96
78) n-propylbenzene	11.287	91	500892	48.849	ug/l	100
79) 2-Chlorotoluene	11.348	91	308064	49.053	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	351131	49.271	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	36657	40.467	ug/l	98
82) 4-Chlorotoluene	11.439	91	361984	48.802	ug/l	98
83) tert-Butylbenzene	11.695	119	352077	48.261	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	355686	49.229	ug/l	100
85) sec-Butylbenzene	11.872	105	425279	49.078	ug/l	99
86) p-Isopropyltoluene	11.988	119	358328	48.845	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	194346	48.977	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	197165	48.412	ug/l	100
89) n-Butylbenzene	12.311	91	320524	47.219	ug/l	99
90) Hexachloroethane	12.518	117	62680	48.665	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	191801	50.735	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.921	75	28256	53.180	ug/l	94
93) 1,2,4-Trichlorobenzene	13.567	180	121509	49.455	ug/l	99
94) Hexachlorobutadiene	13.707	225	38612	46.267	ug/l	98
95) Naphthalene	13.756	128	395438	52.855	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	116383	50.922	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

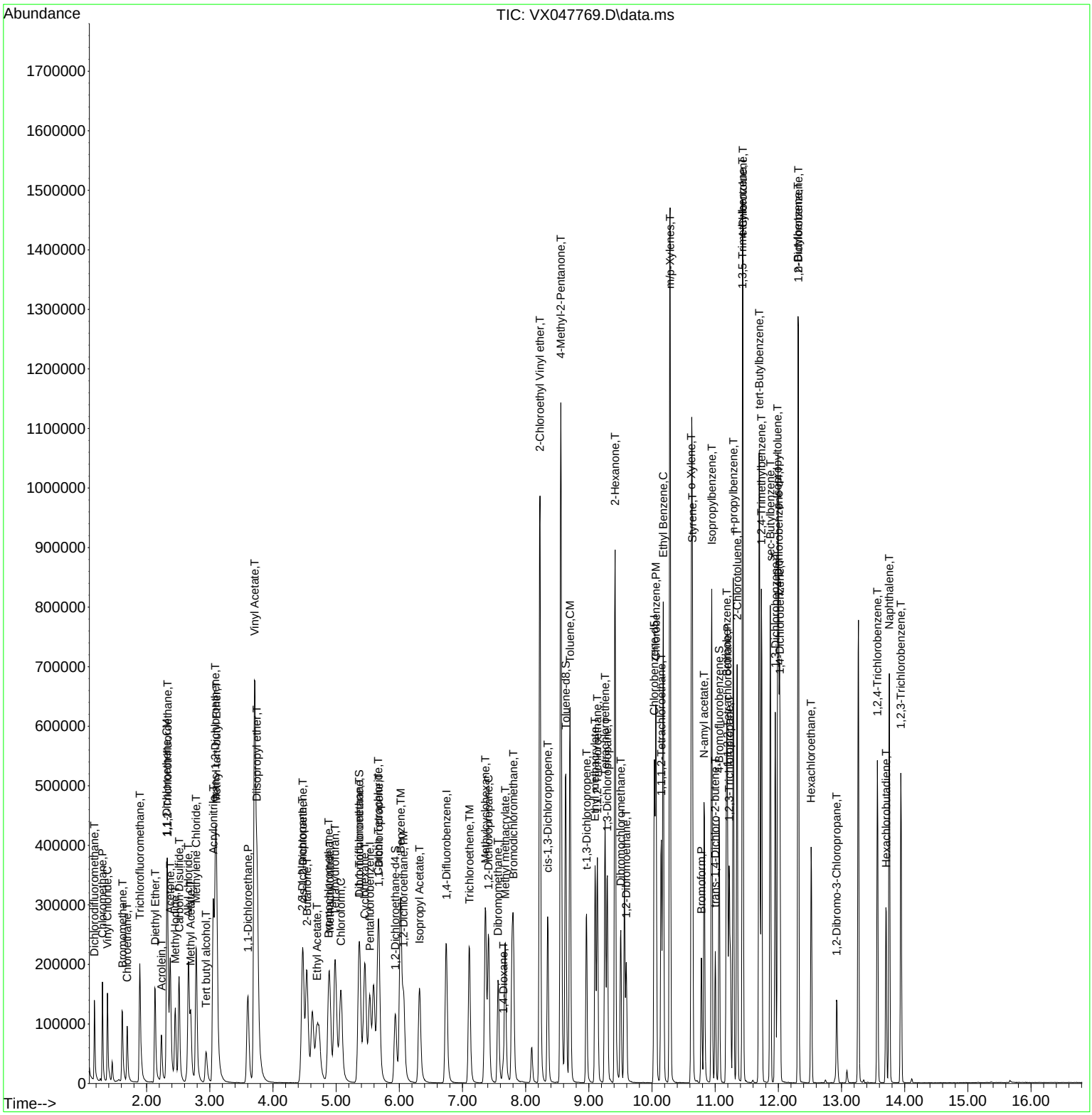
(#) = qualifier out of range (m) = manual integration (+) = signals summed

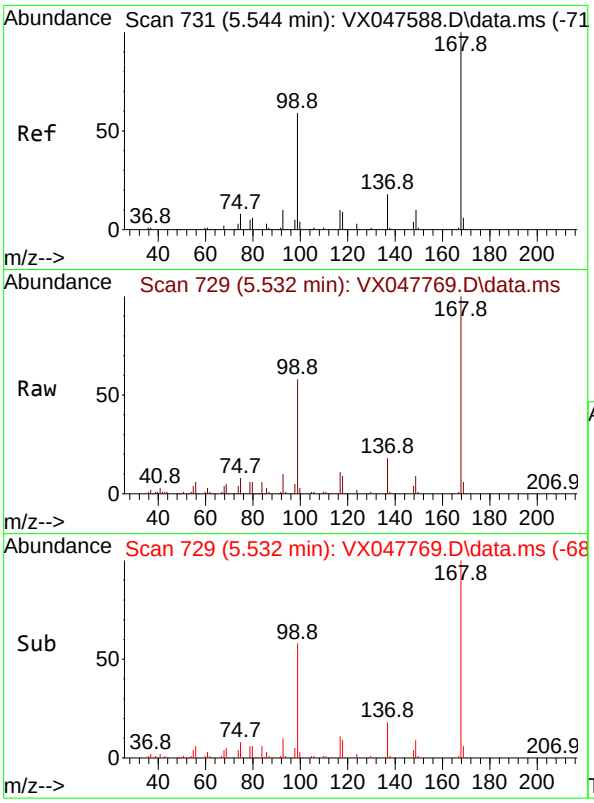
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047769.D
Acq On : 24 Sep 2025 11:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Sep 25 01:11:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



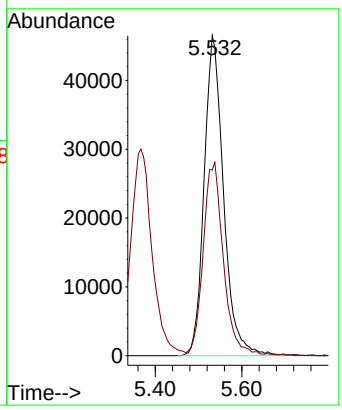


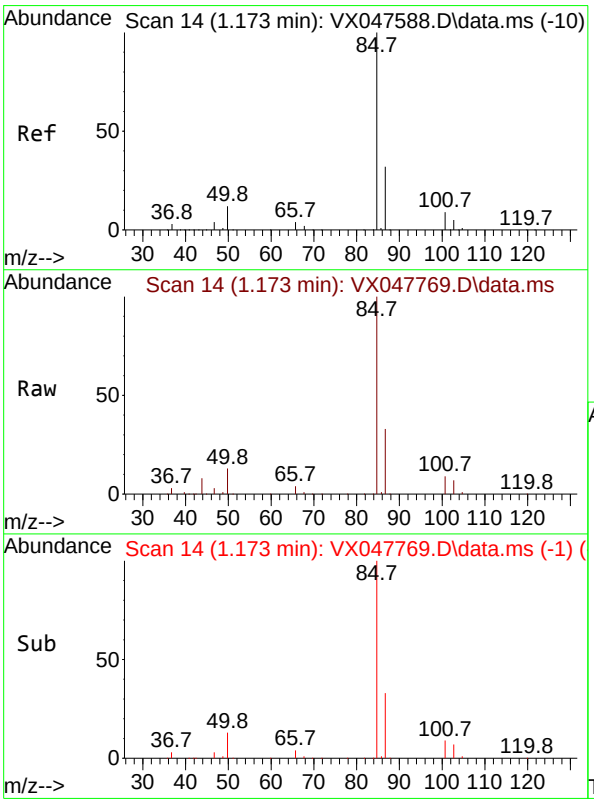
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 144936

Ion	Ratio	Lower	Upper
168	100		
99	57.7	48.8	73.2

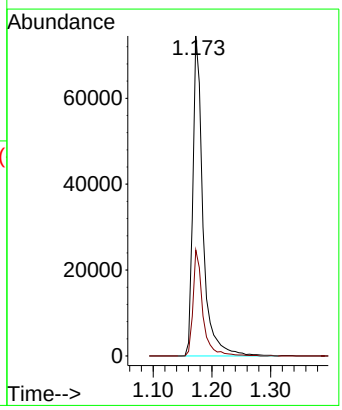


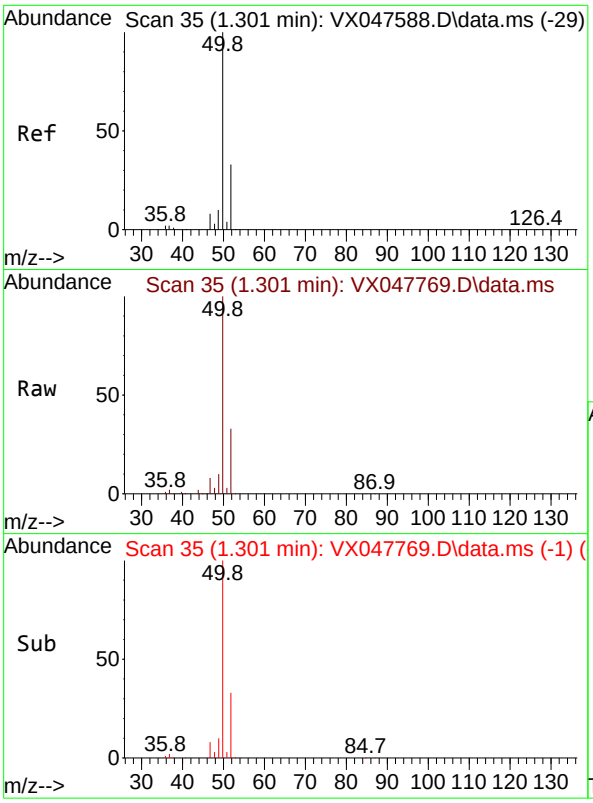


#2
Dichlorodifluoromethane
Concen: 59.595 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 85 Resp: 89442

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.8	47.3



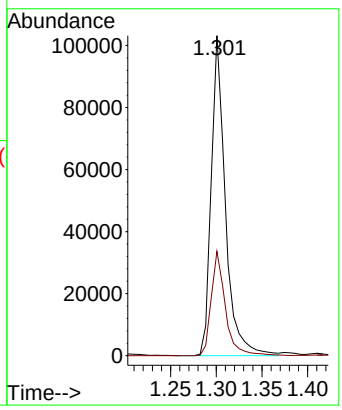


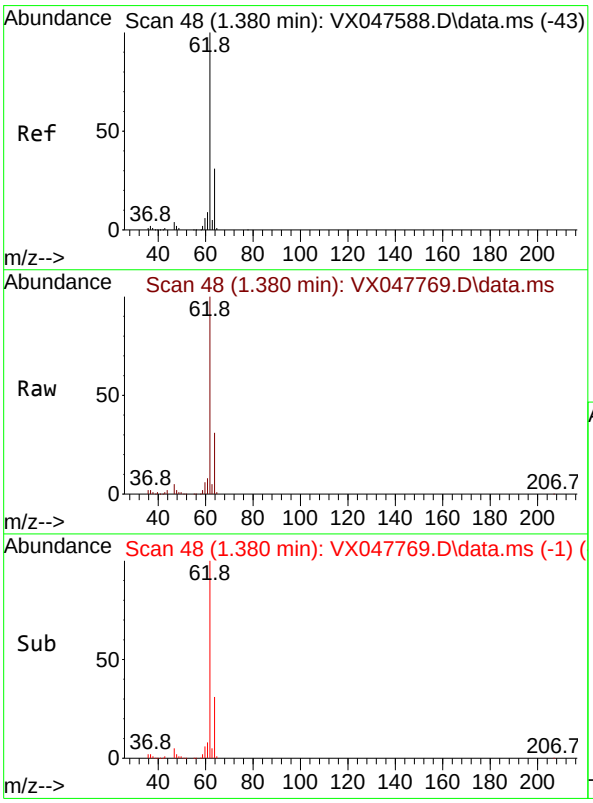
#3
Chloromethane
Concen: 56.251 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 110955

Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1

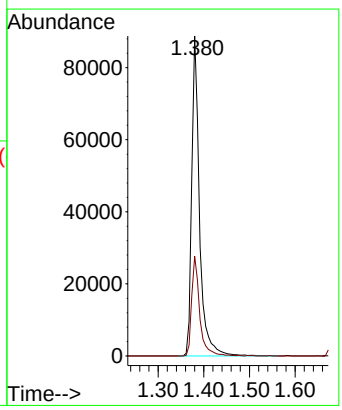


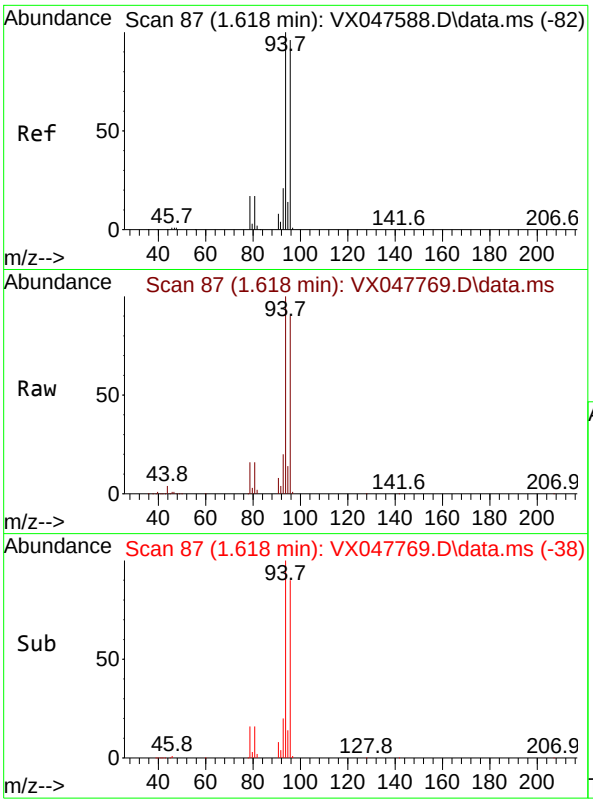


#4
Vinyl Chloride
Concen: 54.684 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 62 Resp: 105587

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.9	37.3



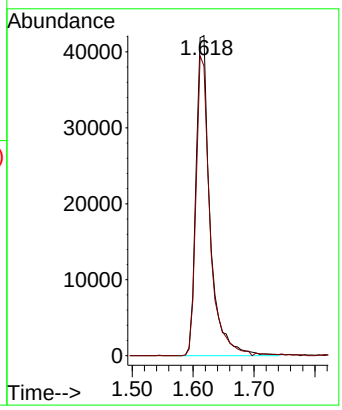


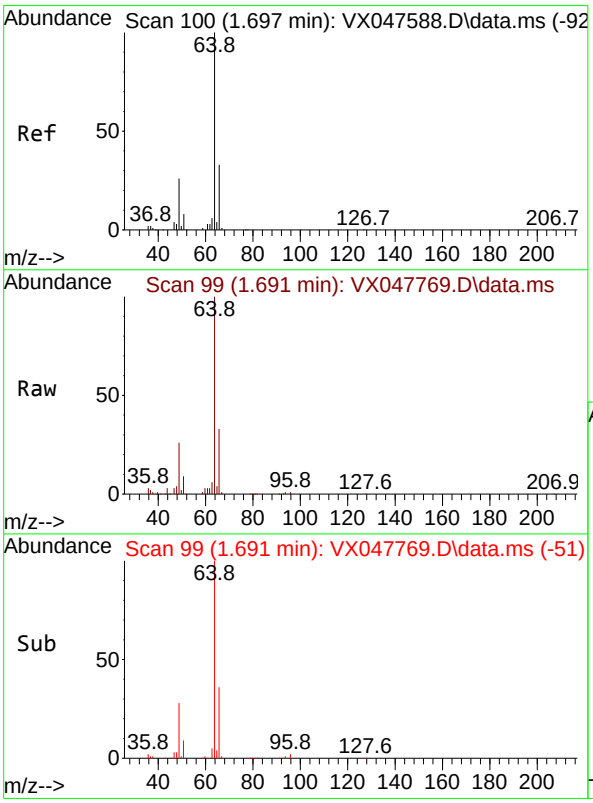
#5
Bromomethane
Concen: 55.087 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 67448

Ion	Ratio	Lower	Upper
94	100		
96	90.5	76.6	115.0

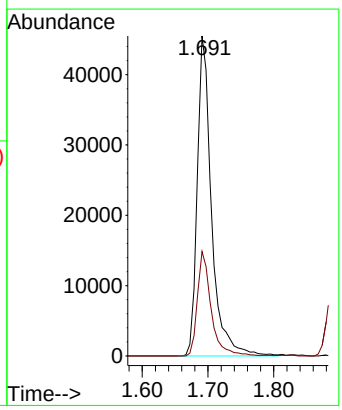


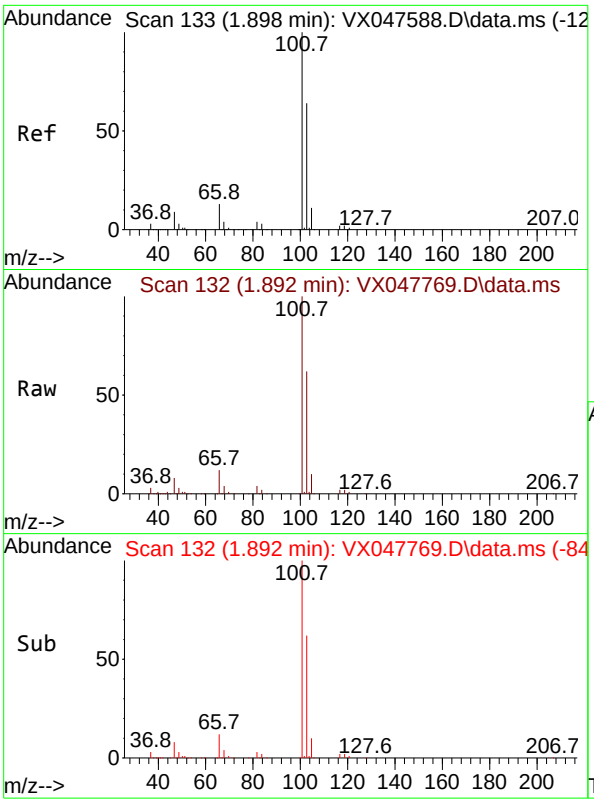


#6
Chloroethane
Concen: 53.245 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 64 Resp: 68714

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.1	39.1



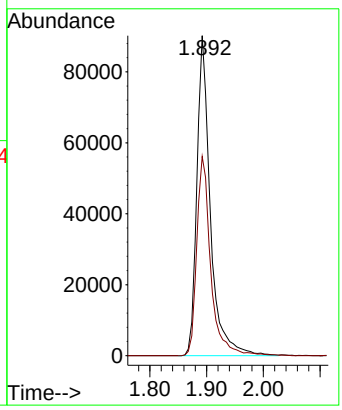


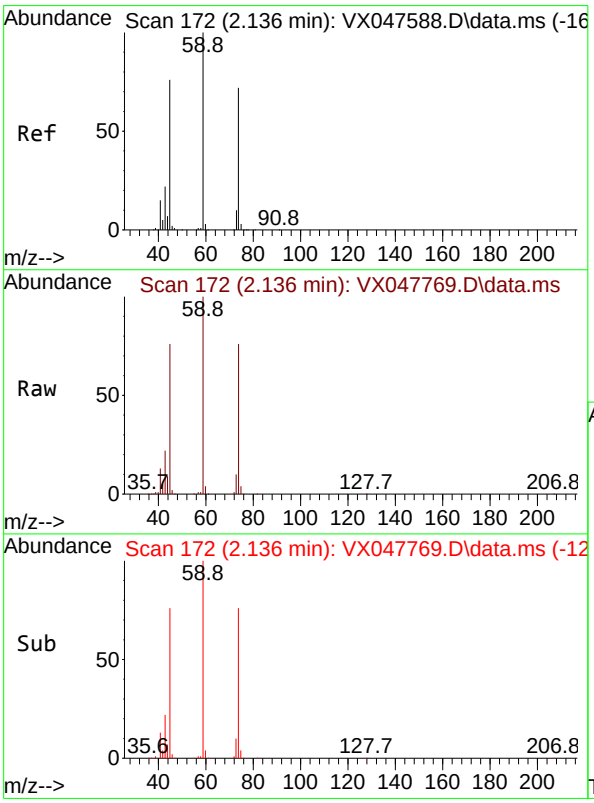
#7
Trichlorofluoromethane
Concen: 51.960 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 148967

Ion	Ratio	Lower	Upper
101	100		
103	62.3	51.4	77.2

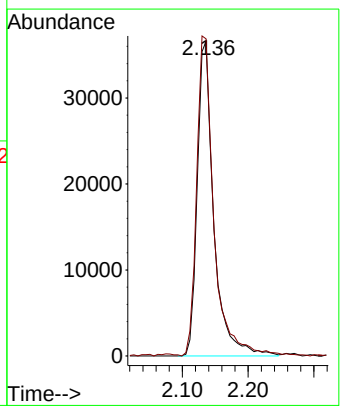


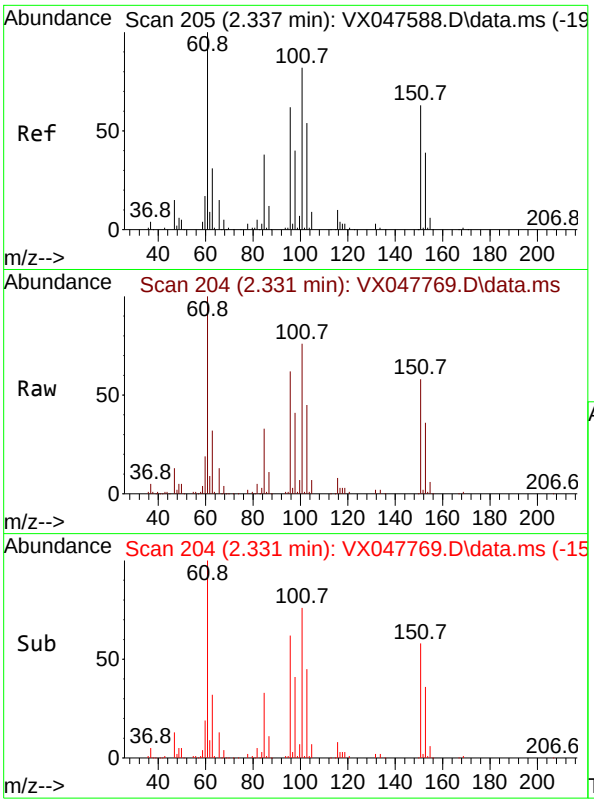


#8
Diethyl Ether
Concen: 54.350 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 74 Resp: 63740

Ion	Ratio	Lower	Upper
74	100		
45	106.5	52.3	156.8



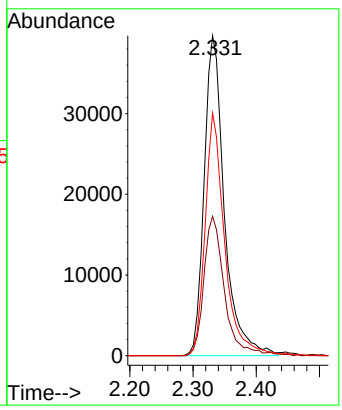


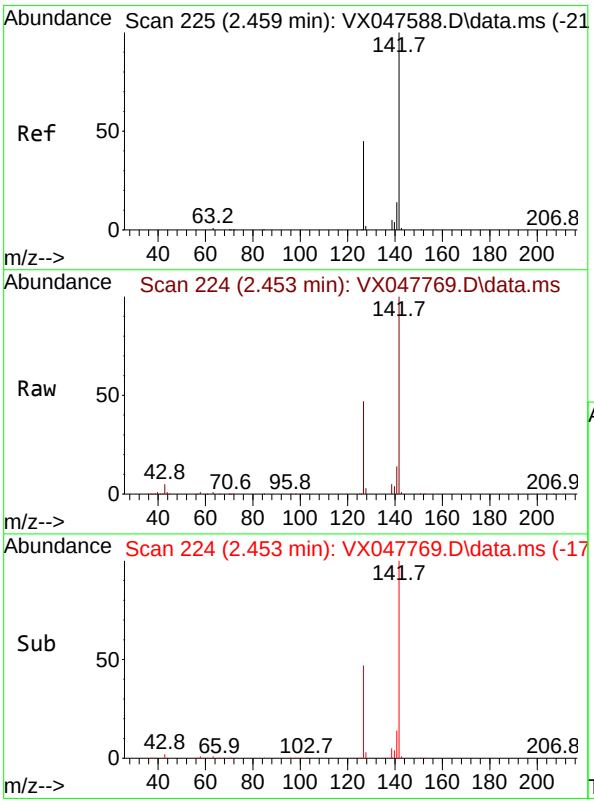
#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.426 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 87886

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	73.6	59.4	89.0

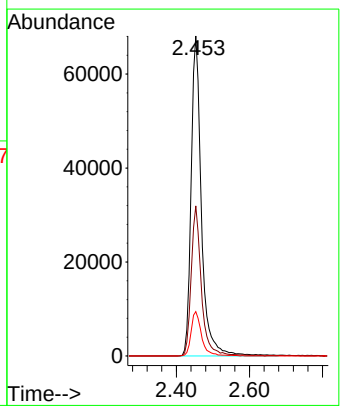


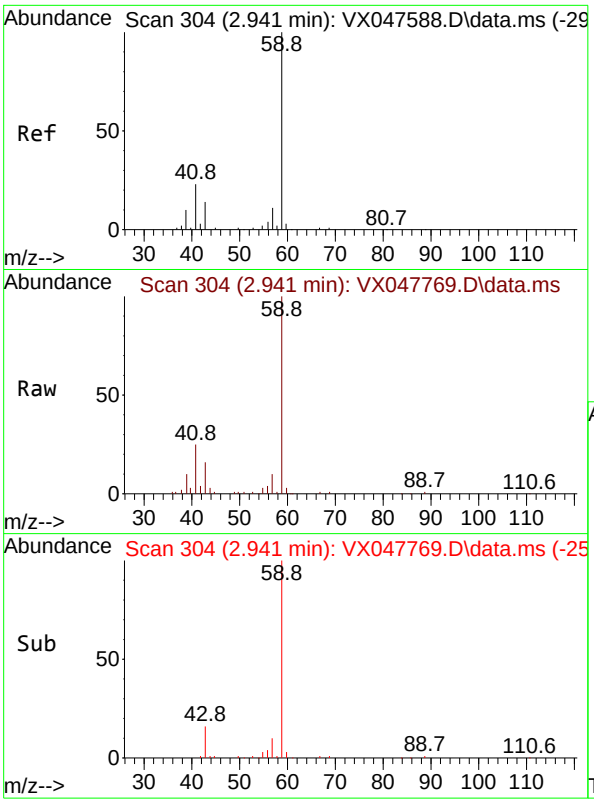


#10
Methyl Iodide
Concen: 51.110 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:142 Resp: 133625

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.1	11.4	17.0



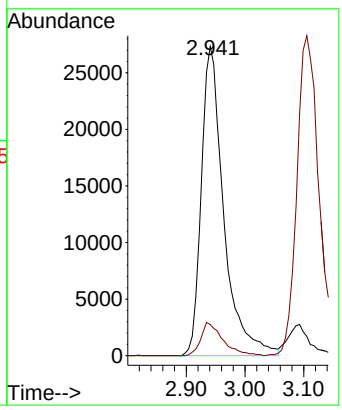


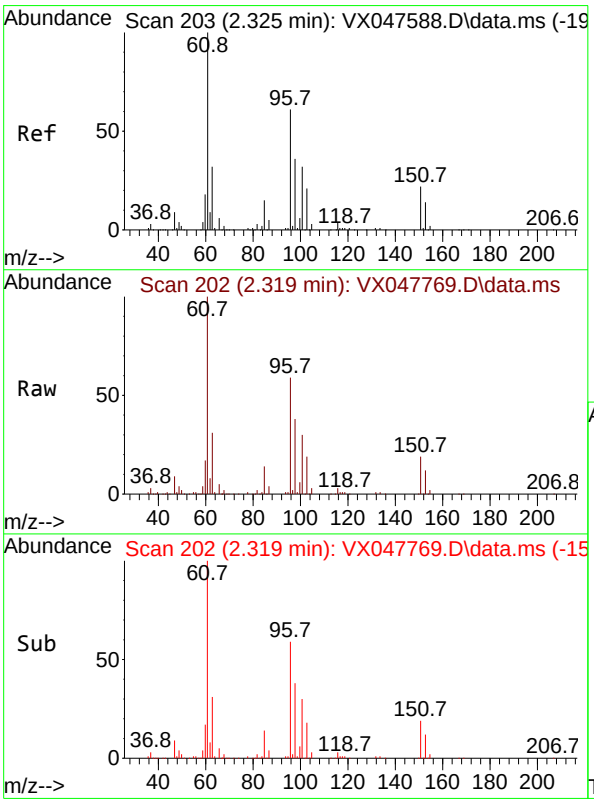
#11
Tert butyl alcohol
Concen: 282.723 ug/l
RT: 2.941 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 72643

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5

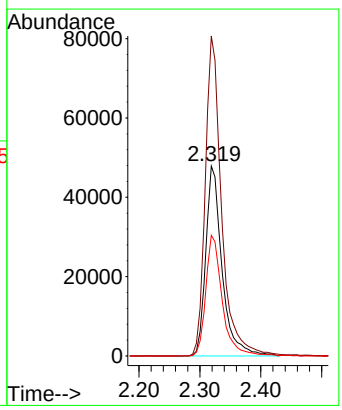


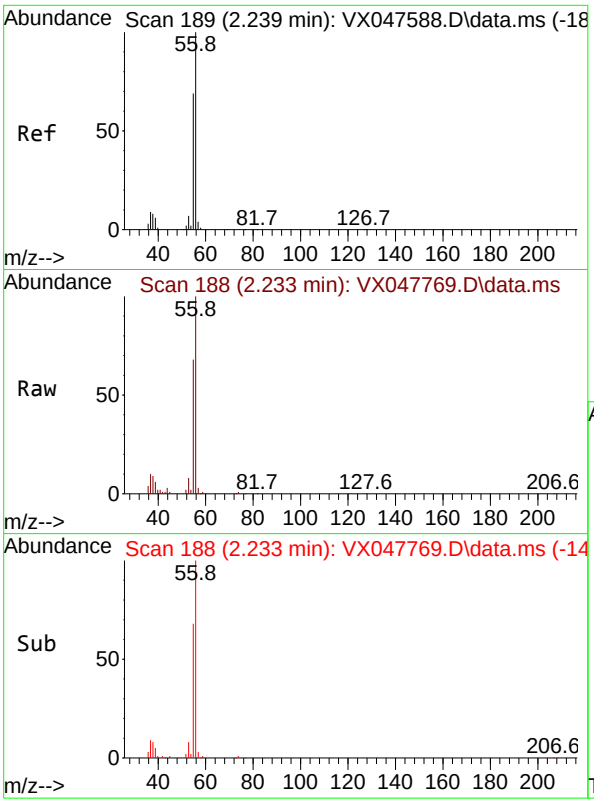


#12
1,1-Dichloroethene
Concen: 51.987 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 96 Resp: 89522

Ion	Ratio	Lower	Upper
96	100		
61	168.4	131.0	196.6
98	65.2	47.7	71.5



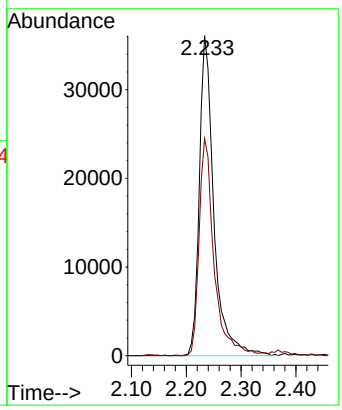


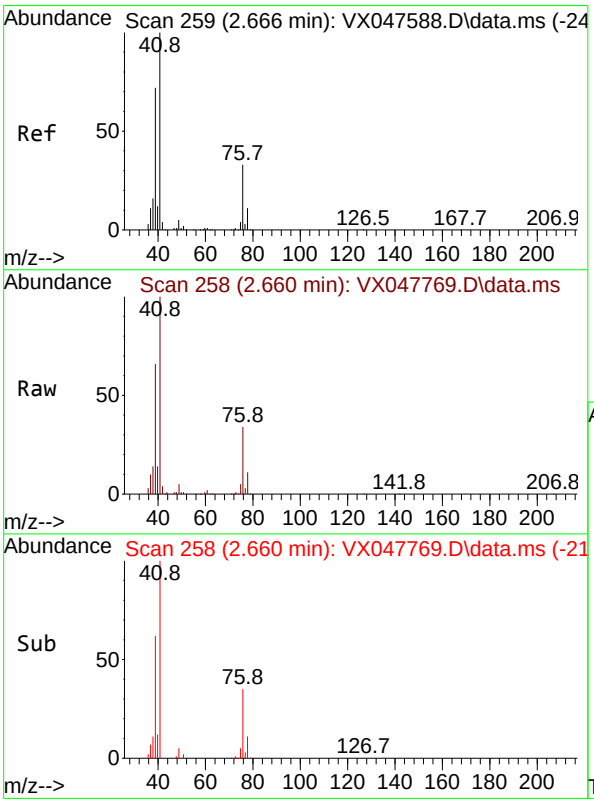
#13
Acrolein
Concen: 280.858 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 66500

Ion	Ratio	Lower	Upper
56	100		
55	69.7	57.2	85.8

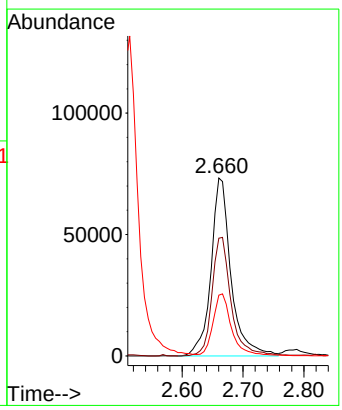


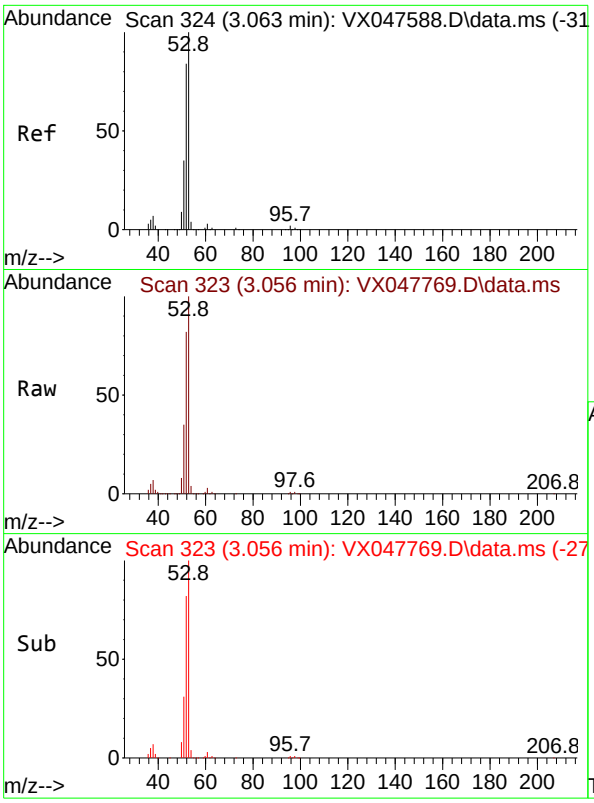


#14
Allyl chloride
Concen: 47.162 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 41 Resp: 167585

Ion	Ratio	Lower	Upper
41	100		
39	63.8	54.7	82.1
76	32.5	25.7	38.5



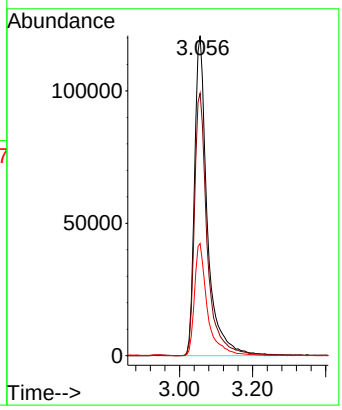


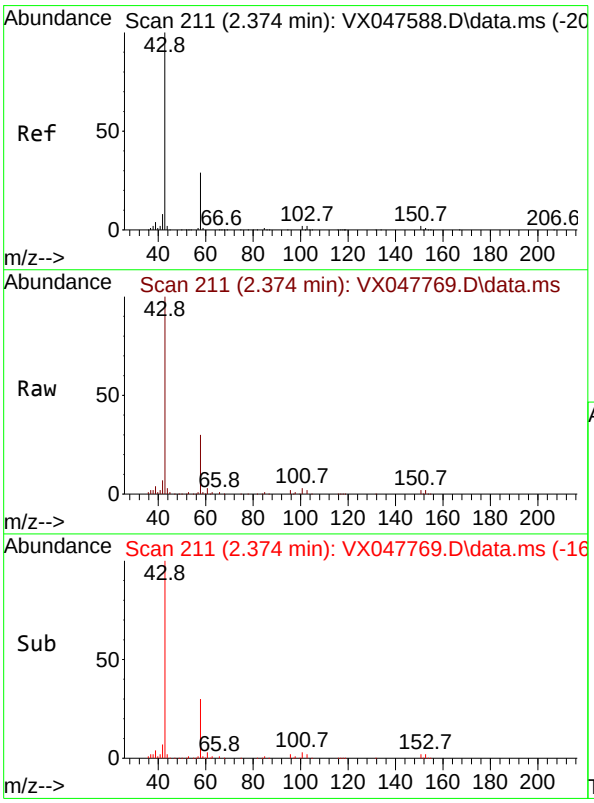
#15
Acrylonitrile
Concen: 310.874 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 295866

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.4	99.6
51	35.7	29.5	44.3

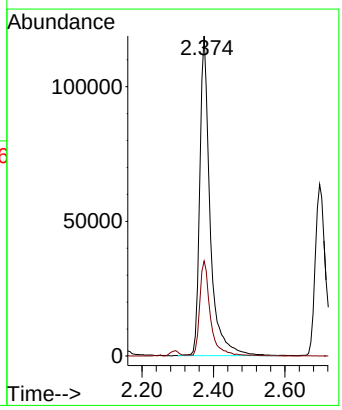


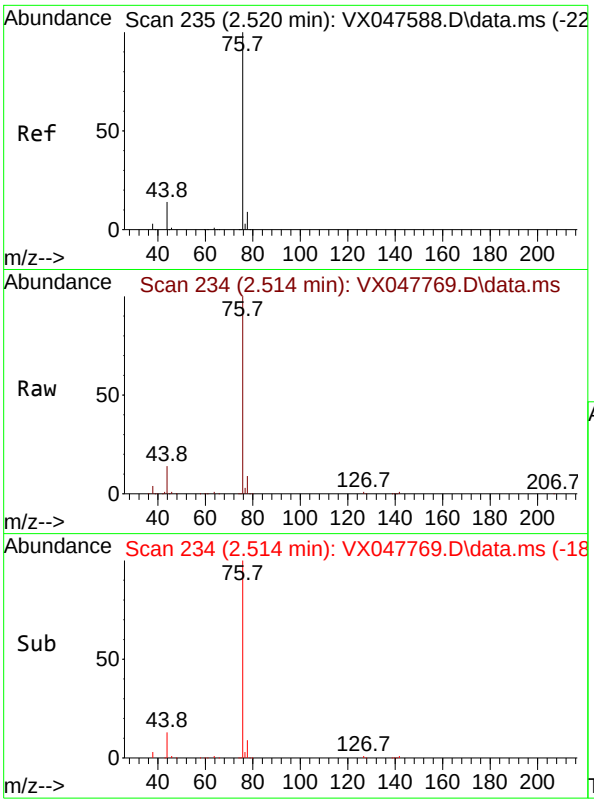


#16
Acetone
Concen: 236.815 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 237549

Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.4	35.0



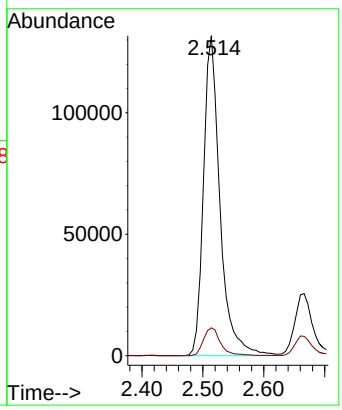


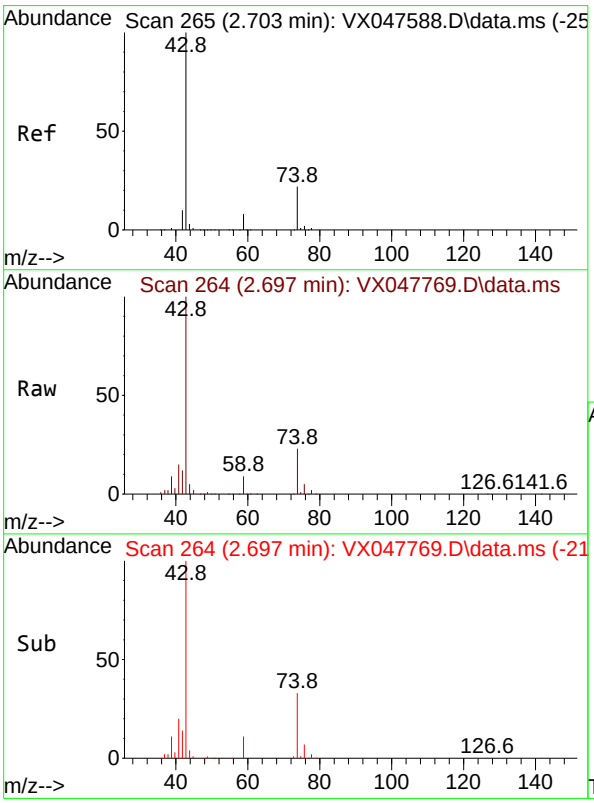
#17
Carbon Disulfide
Concen: 52.625 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 248080

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2

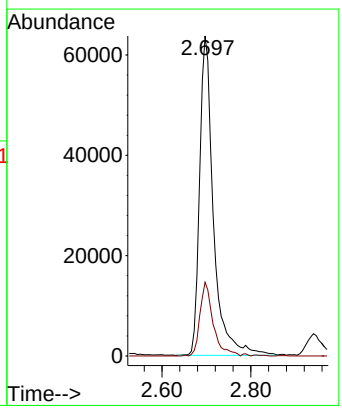


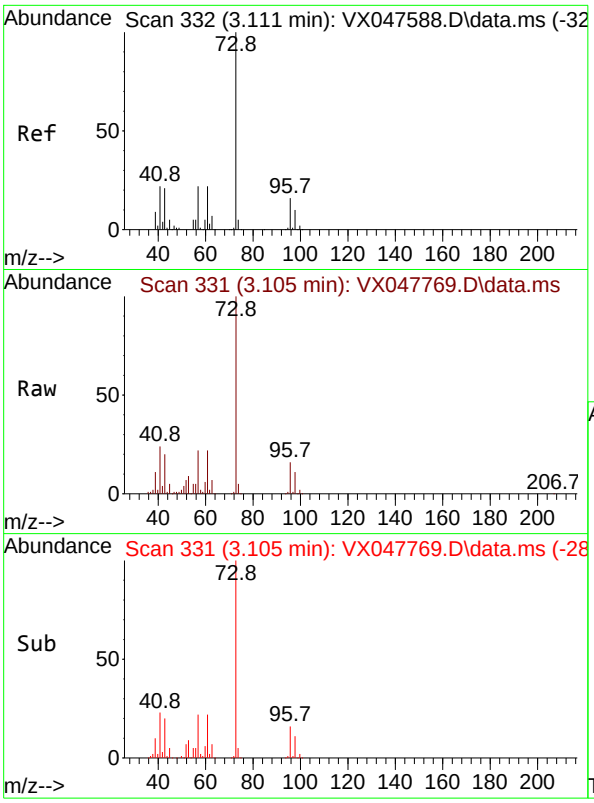


#18
Methyl Acetate
Concen: 61.903 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 138191

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2



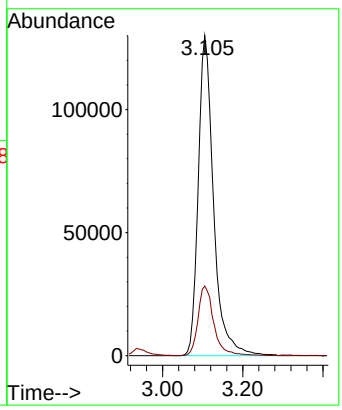


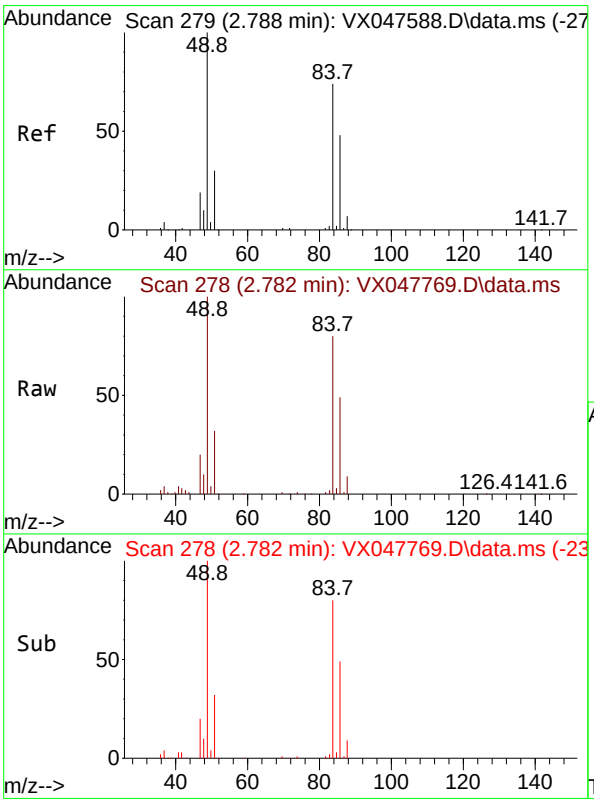
#19
Methyl tert-butyl Ether
Concen: 54.854 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 344812

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2

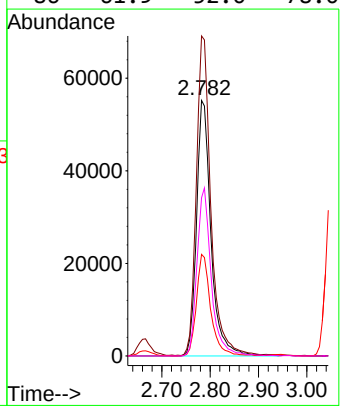


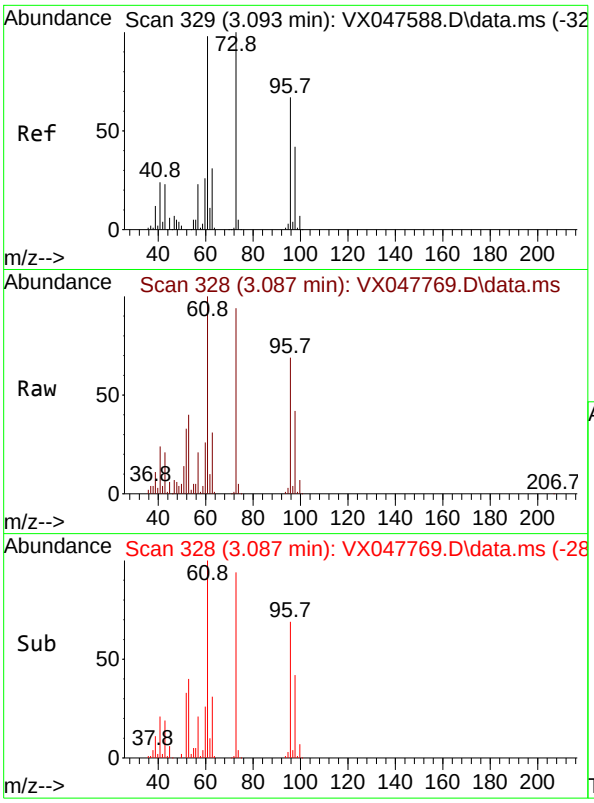


#20
Methylene Chloride
Concen: 54.091 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 84 Resp: 114851

Ion	Ratio	Lower	Upper
84	100		
49	124.9	108.6	162.8
51	39.7	32.6	48.8
86	61.9	52.0	78.0



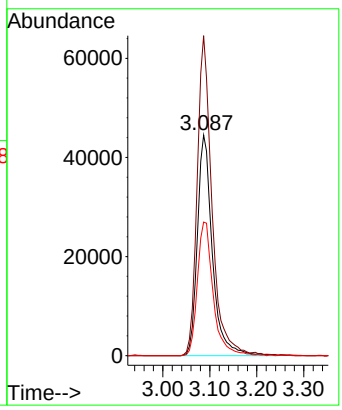


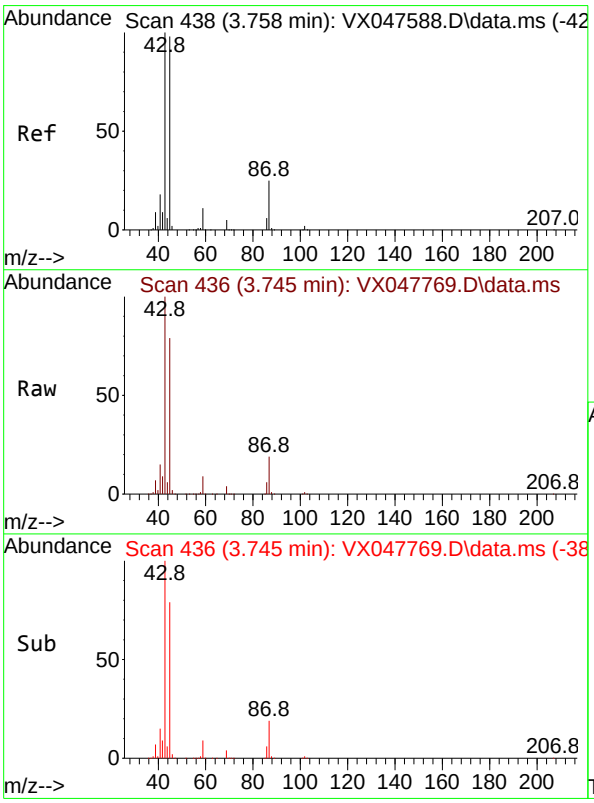
#21
trans-1,2-Dichloroethene
Concen: 53.353 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 98912

Ion	Ratio	Lower	Upper
96	100		
61	145.1	116.2	174.2
98	60.5	49.3	73.9

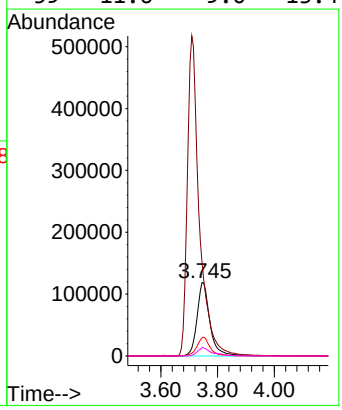


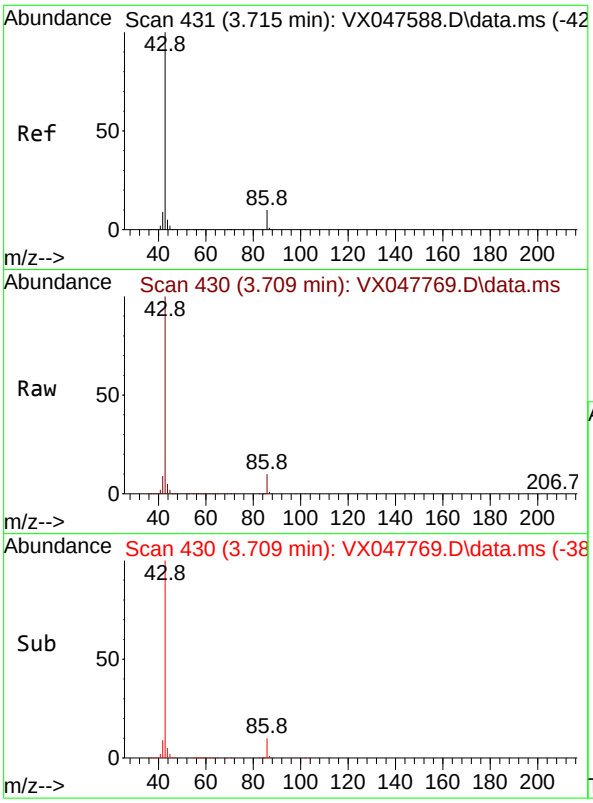


#22
Diisopropyl ether
Concen: 54.309 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 45 Resp: 374002

Ion	Ratio	Lower	Upper
45	100		
43	126.9	81.0	121.4#
87	24.7	20.3	30.5
59	11.6	9.0	13.4



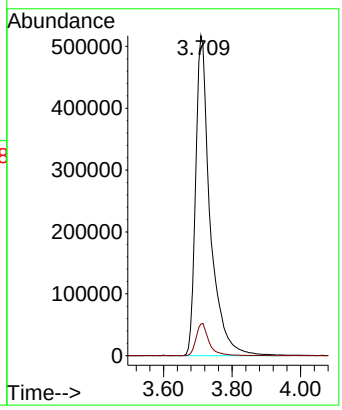


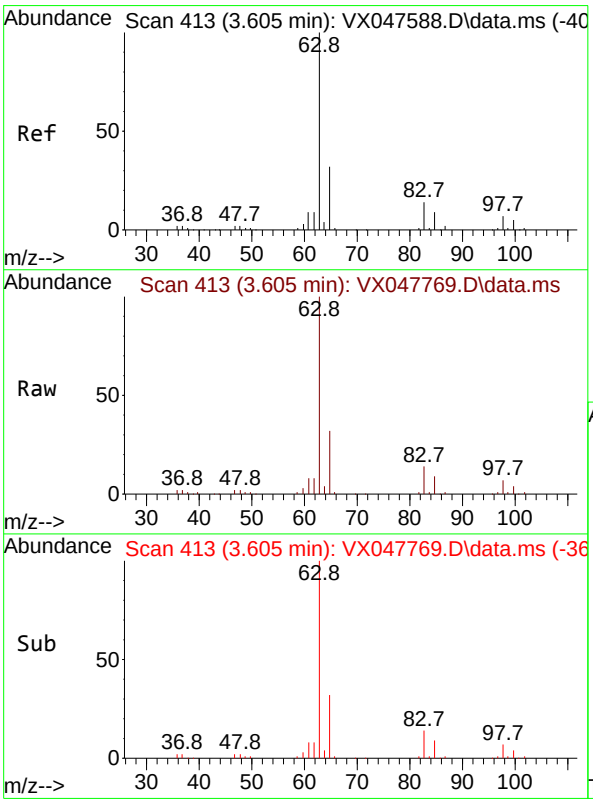
#23
Vinyl Acetate
Concen: 276.642 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1524747

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8

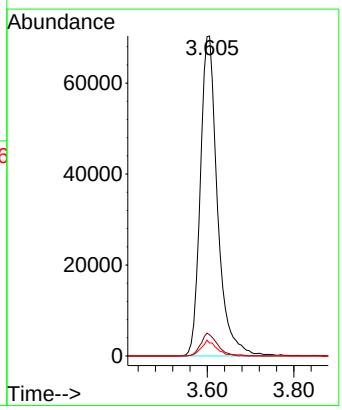


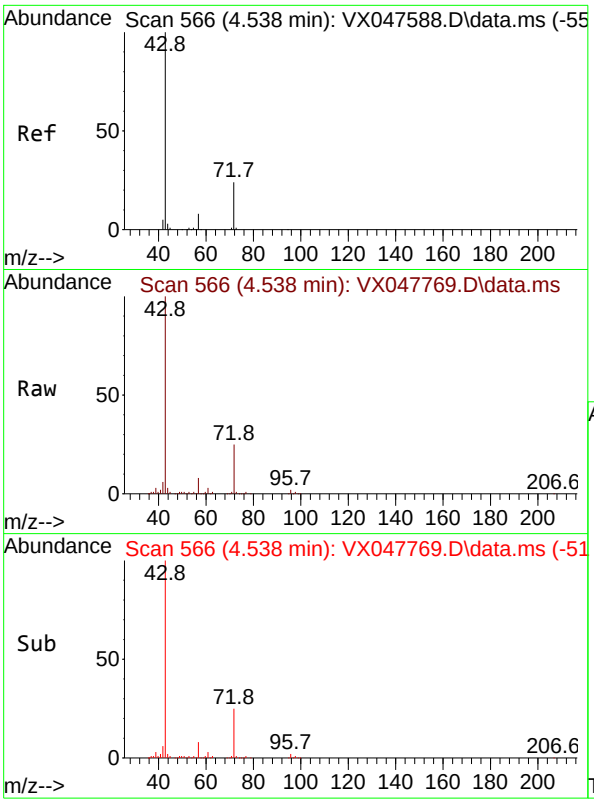


#24
1,1-Dichloroethane
Concen: 52.845 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 63 Resp: 193428

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.8	11.2
100	4.3	2.3	6.9



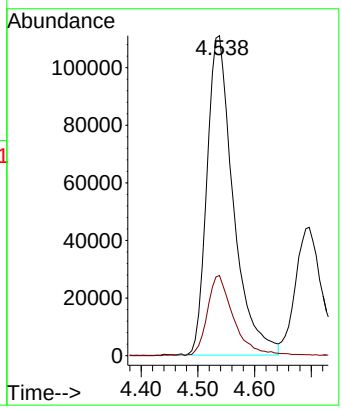


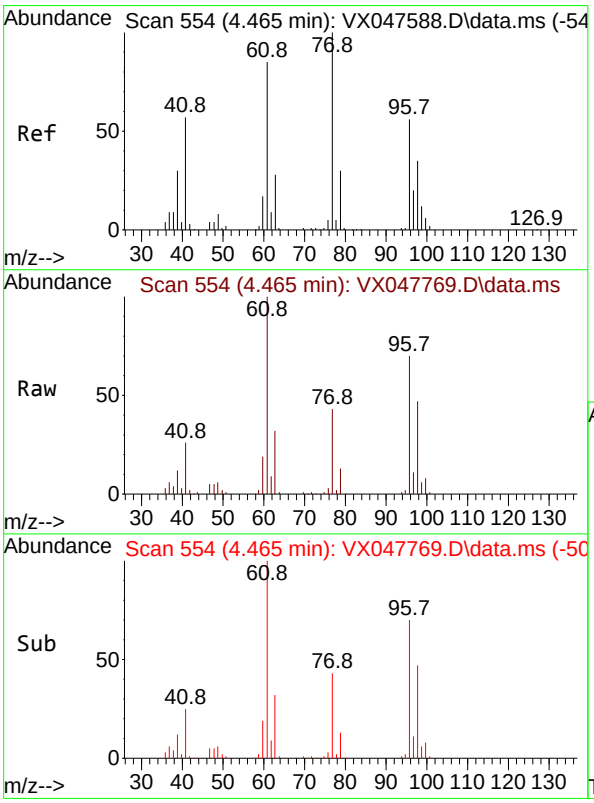
#25
2-Butanone
Concen: 285.932 ug/l
RT: 4.538 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 357769

Ion	Ratio	Lower	Upper
43	100		
72	24.7	20.1	30.1

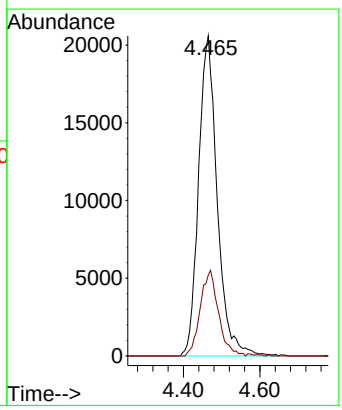


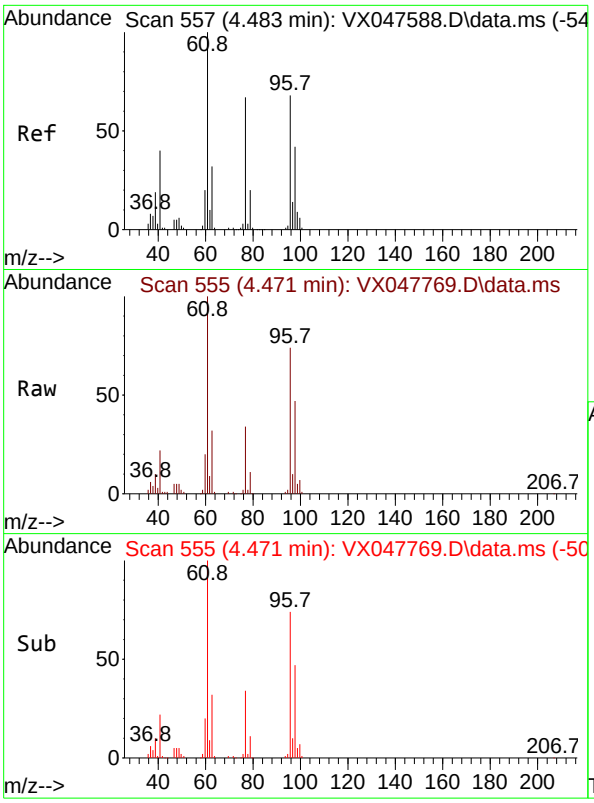


#26
2,2-Dichloropropane
Concen: 22.920 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 77 Resp: 69736

Ion	Ratio	Lower	Upper
77	100		
97	26.0	10.9	32.7



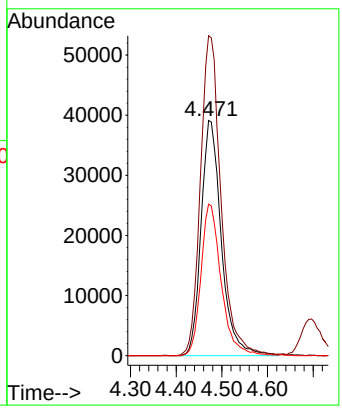


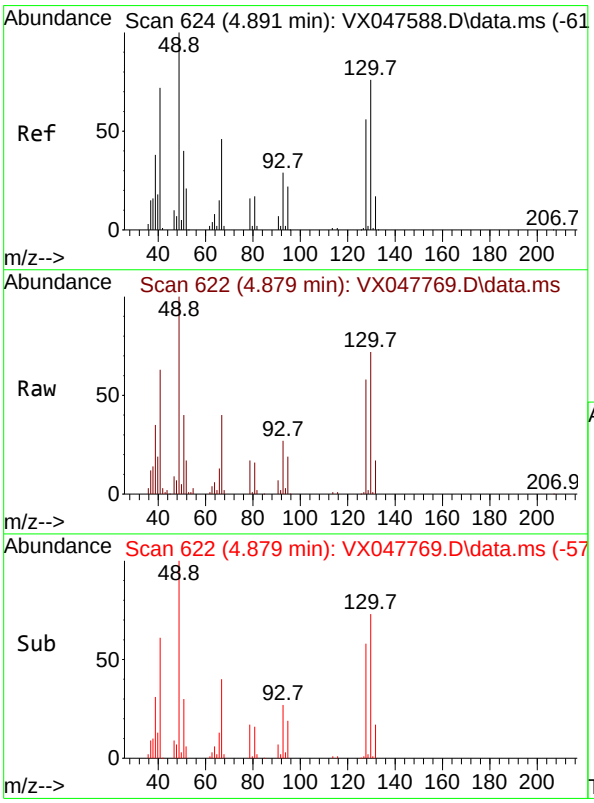
#27
cis-1,2-Dichloroethene
Concen: 53.106 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 120574

Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	303.2
98	64.2	0.0	127.8

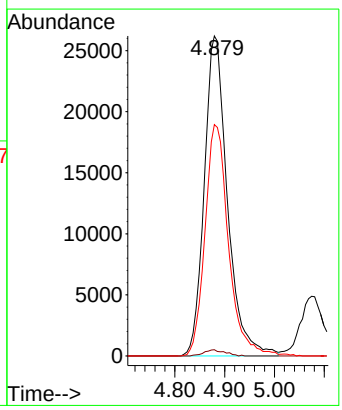


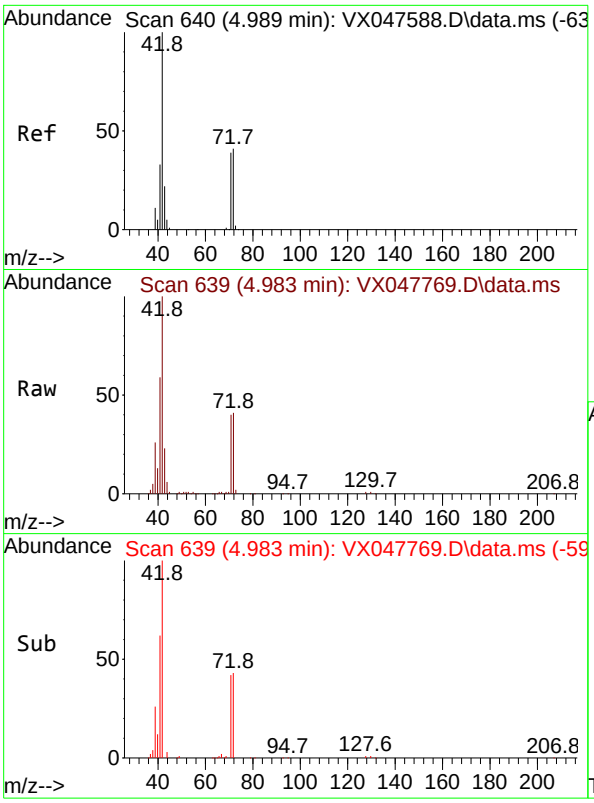


#28
Bromochloromethane
Concen: 52.945 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 49 Resp: 84604

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	73.4	57.8	86.8



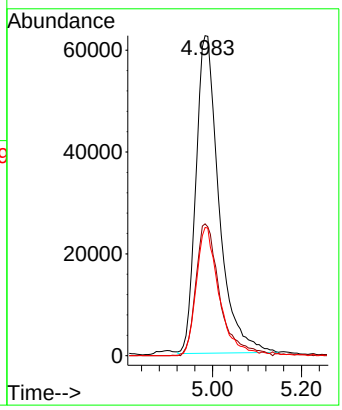


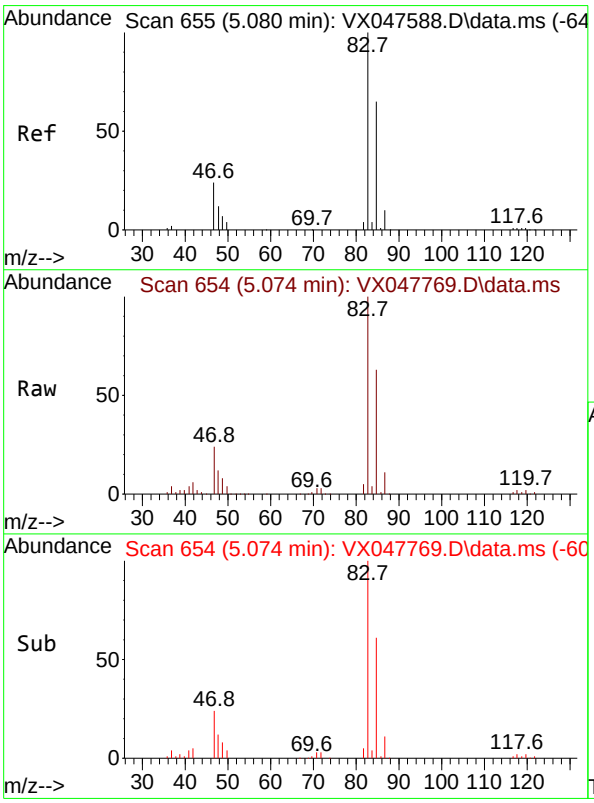
#29
Tetrahydrofuran
Concen: 298.644 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 224794

Ion	Ratio	Lower	Upper
42	100		
72	43.2	34.2	51.2
71	40.3	31.9	47.9

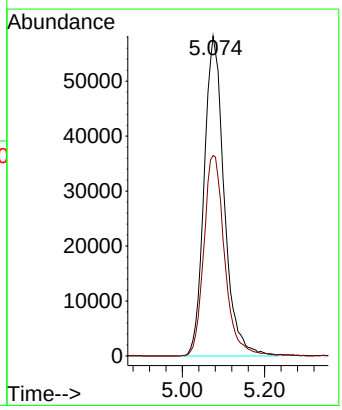


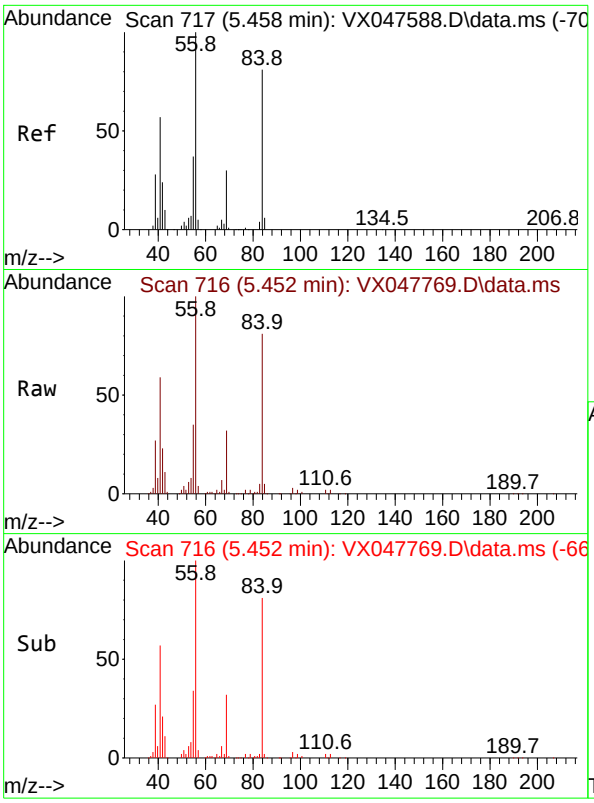


#30
Chloroform
Concen: 53.144 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 83 Resp: 196569

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.8	77.6



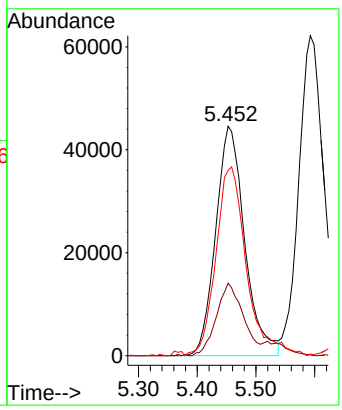


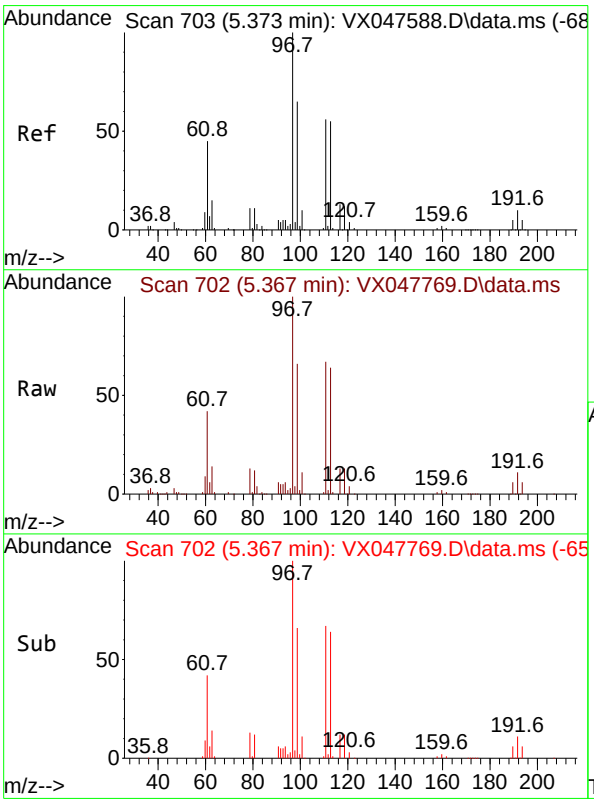
#31
Cyclohexane
Concen: 50.154 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 152895

Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.8	35.8
84	79.0	64.6	97.0

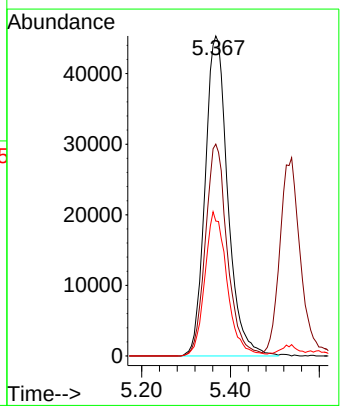


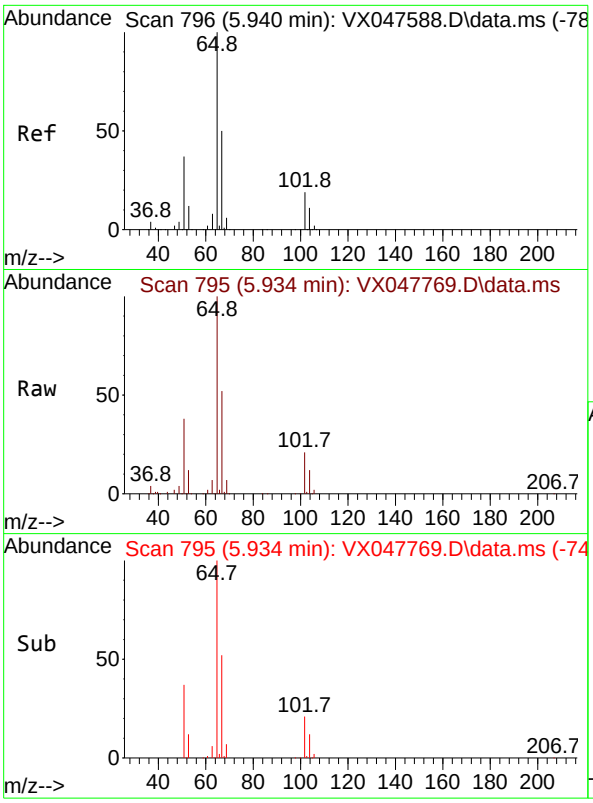


#32
1,1,1-Trichloroethane
Concen: 51.242 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 97 Resp: 160765

Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.6	76.0
61	44.1	35.8	53.8



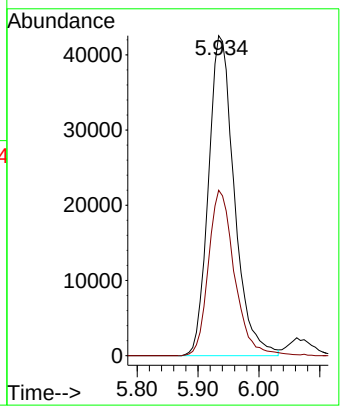


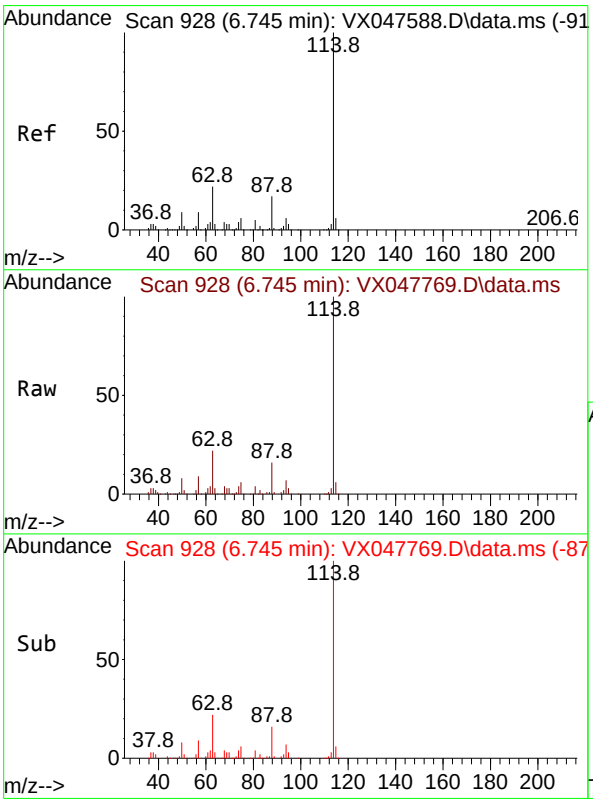
#33
1,2-Dichloroethane-d4
Concen: 54.395 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 125490

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.0

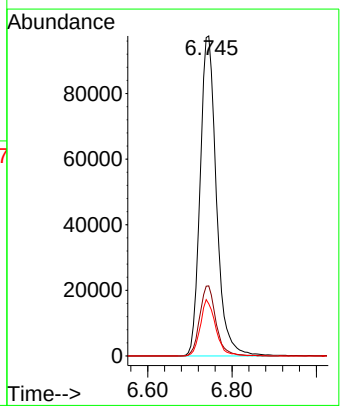


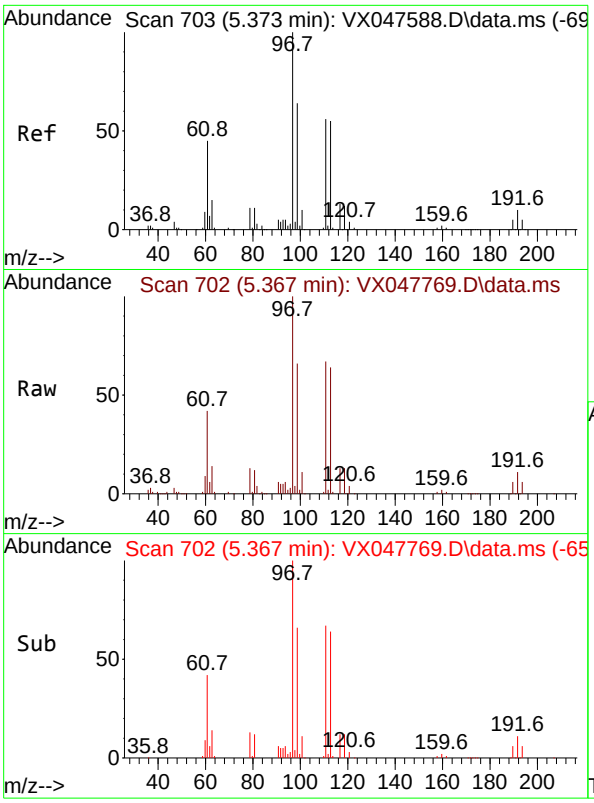


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:114 Resp: 262651

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.0
88	16.3	0.0	34.2



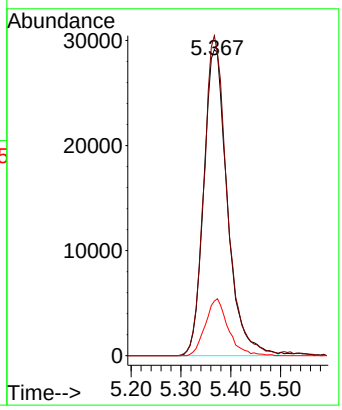


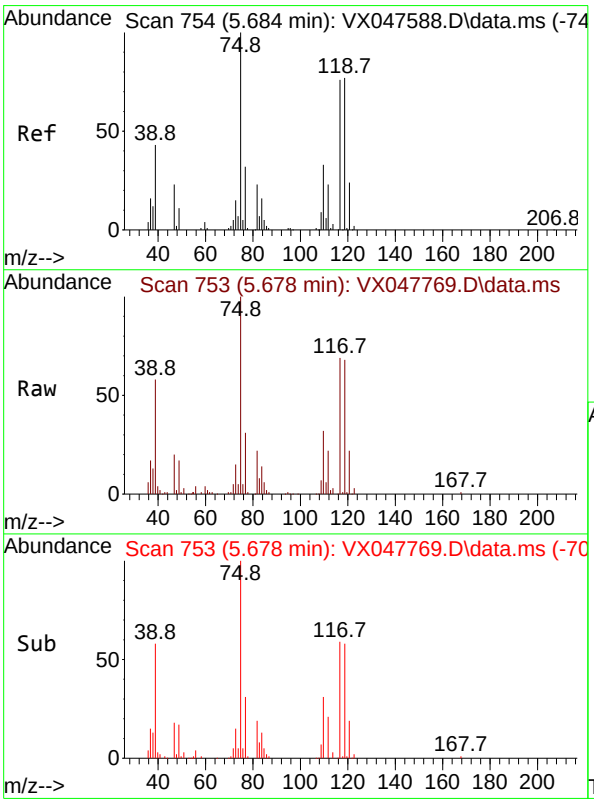
#35
Dibromofluoromethane
Concen: 54.718 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 96384

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	17.9	14.2	21.4

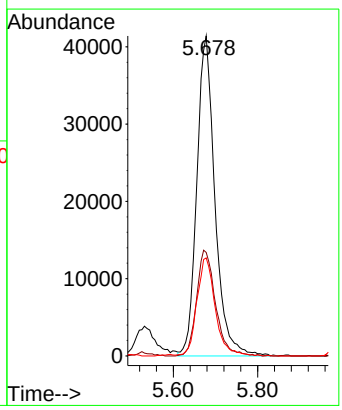


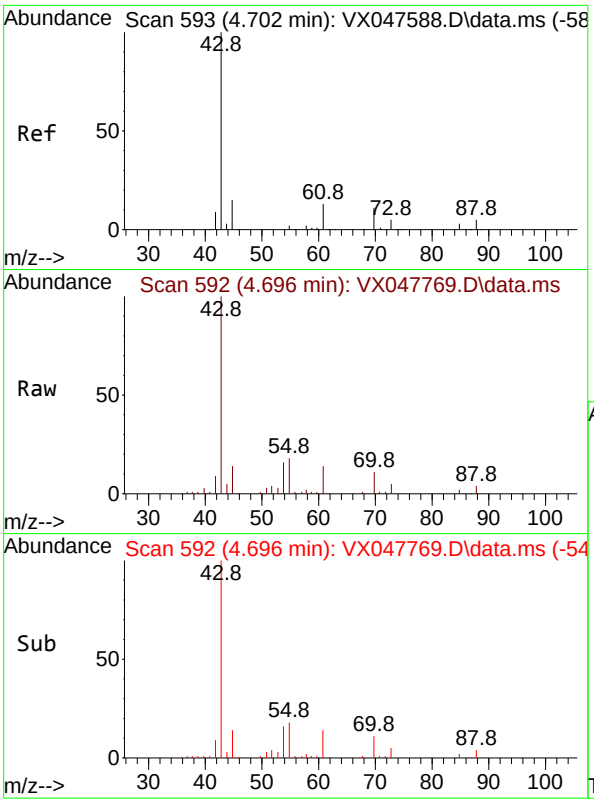


#36
1,1-Dichloropropene
Concen: 48.237 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 124159

Ion	Ratio	Lower	Upper
75	100		
110	34.5	16.7	50.1
77	31.1	24.3	36.5



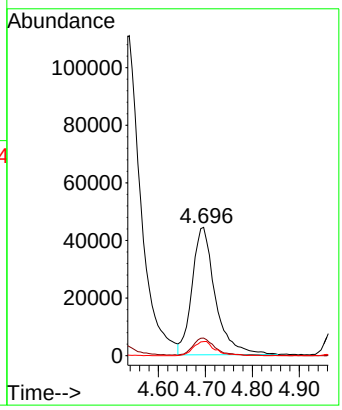


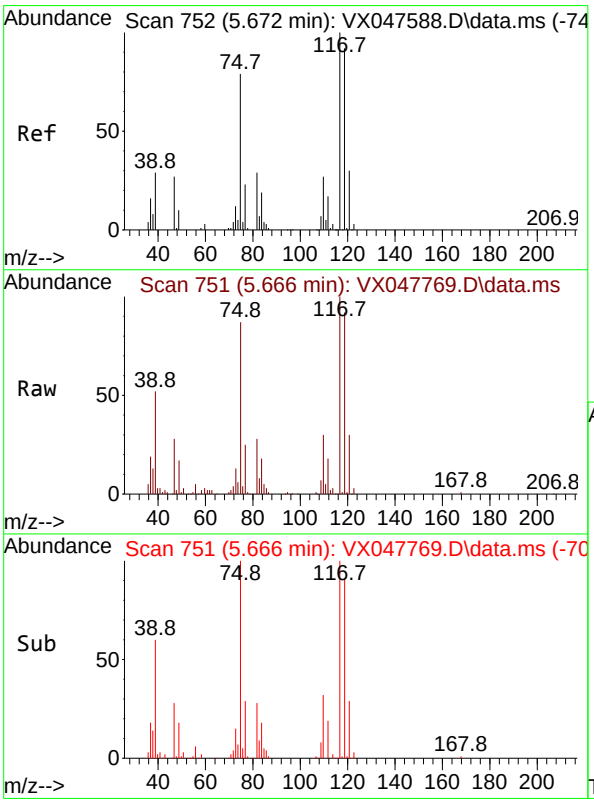
#37
Ethyl Acetate
Concen: 55.069 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 151768

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	10.5	7.9	11.9

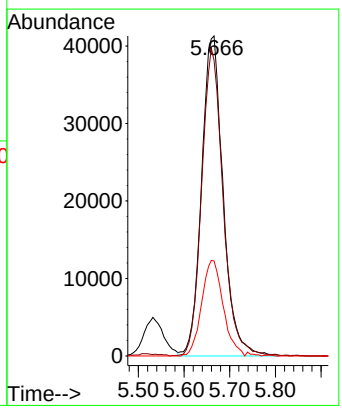


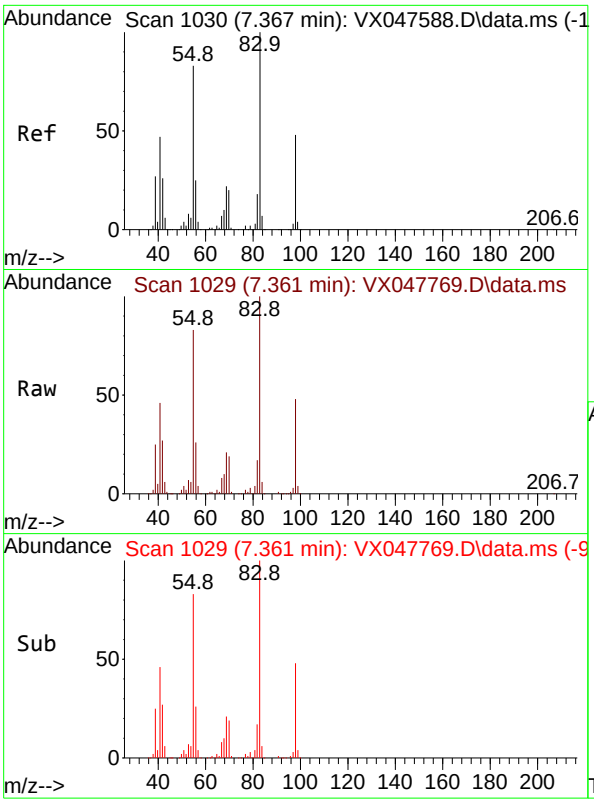


#38
Carbon Tetrachloride
Concen: 48.413 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:117 Resp: 135392

Ion	Ratio	Lower	Upper
117	100		
119	92.2	73.4	110.2
121	29.7	23.8	35.6



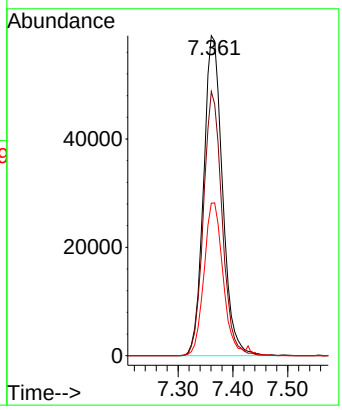


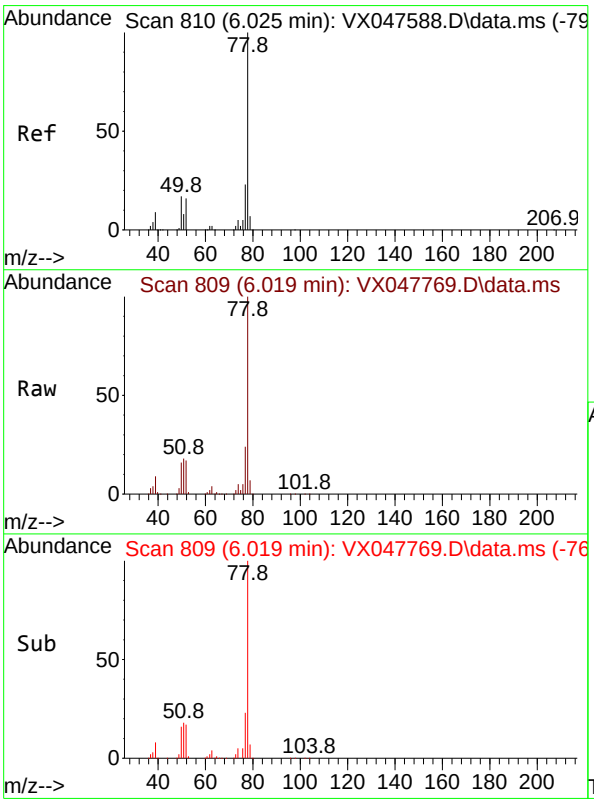
#39
Methylcyclohexane
Concen: 48.420 ug/l
RT: 7.361 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 141473

Ion	Ratio	Lower	Upper
83	100		
55	82.5	66.4	99.6
98	47.7	38.1	57.1

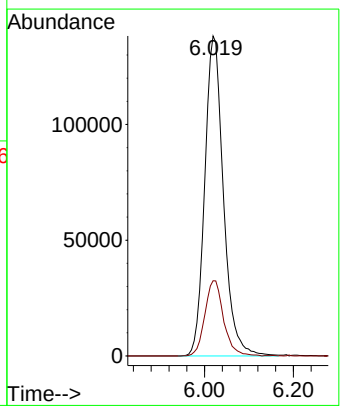


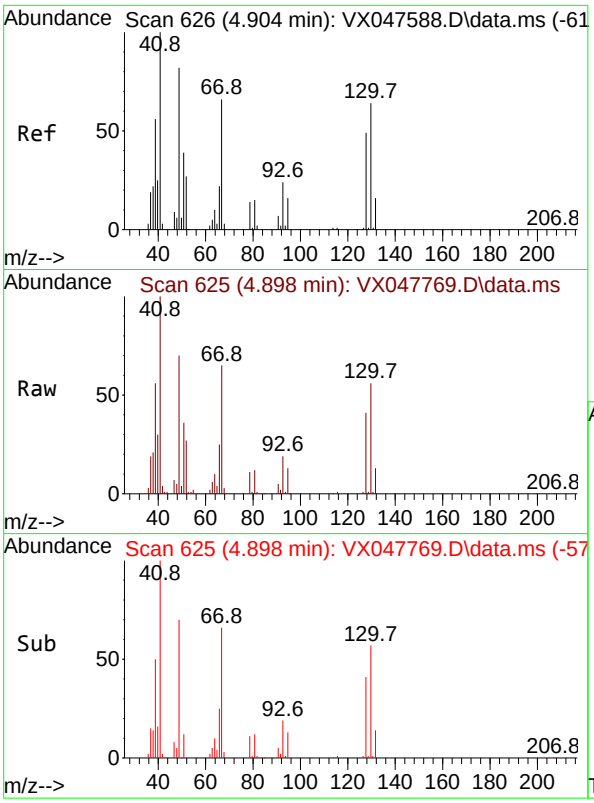


#40
Benzene
Concen: 51.764 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 78 Resp: 404676

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2



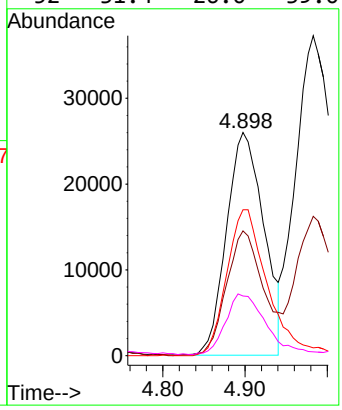


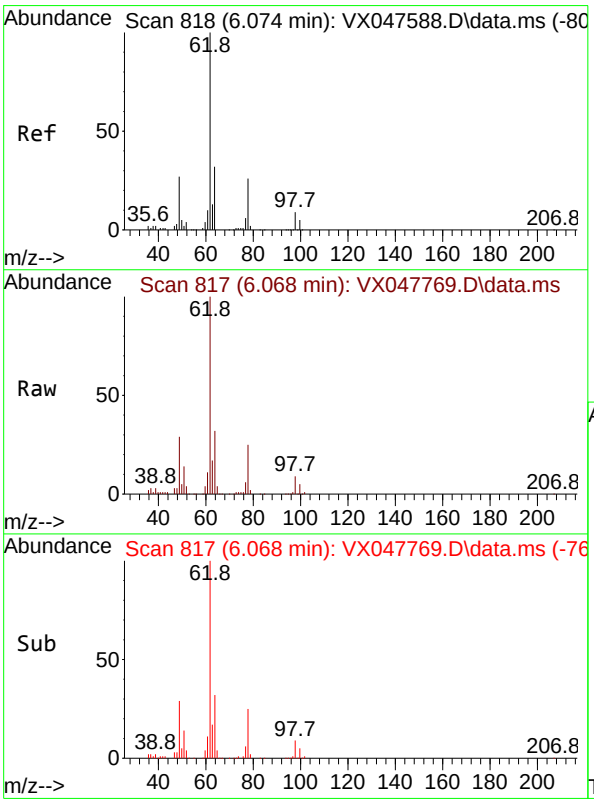
#41
Methacrylonitrile
Concen: 57.784 ug/l
RT: 4.898 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 82213

Ion	Ratio	Lower	Upper
41	100		
39	57.2	43.3	64.9
67	72.4	58.6	87.8
52	31.4	26.0	39.0

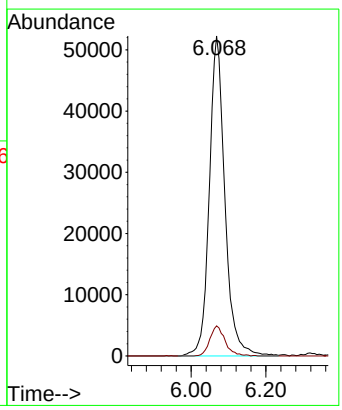


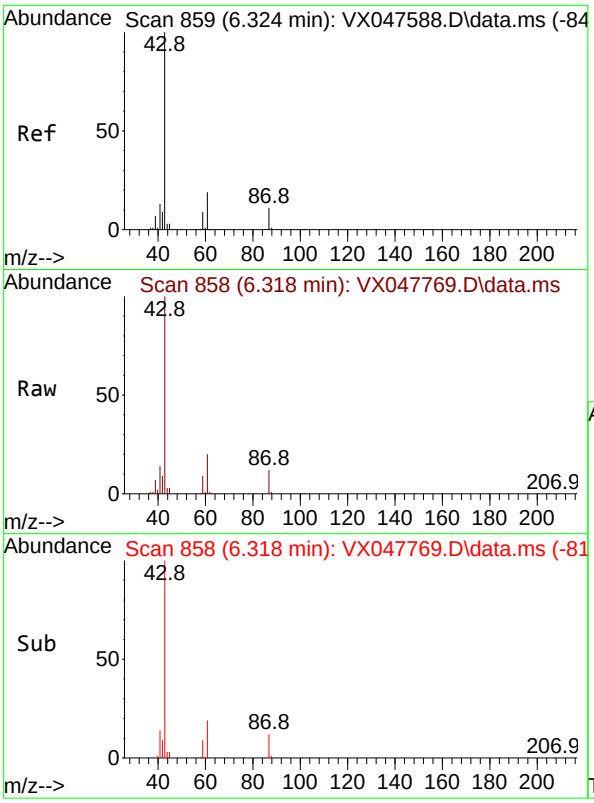


#42
1,2-Dichloroethane
Concen: 50.825 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 62 Resp: 151181

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0



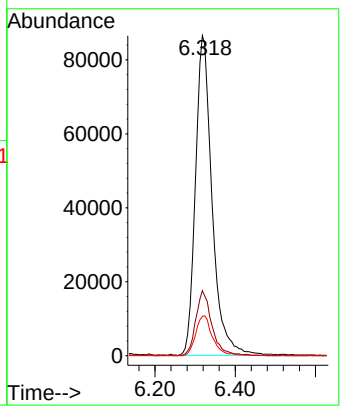


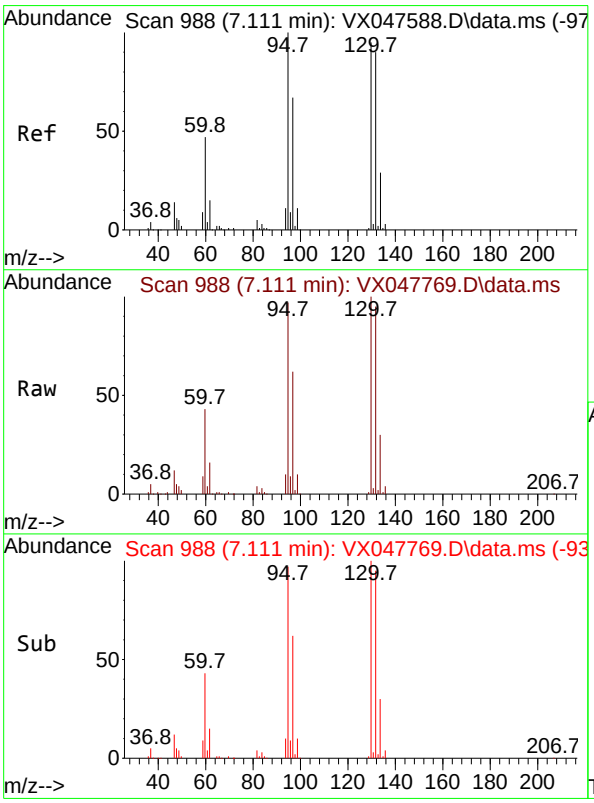
#43
Isopropyl Acetate
Concen: 55.147 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 249260

Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.2	22.8
87	12.6	9.6	14.4

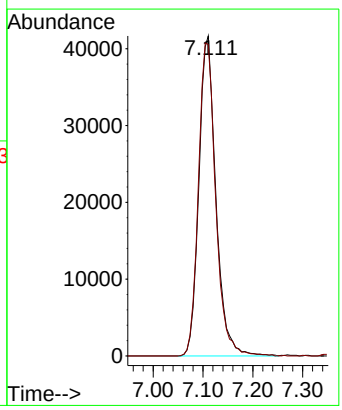


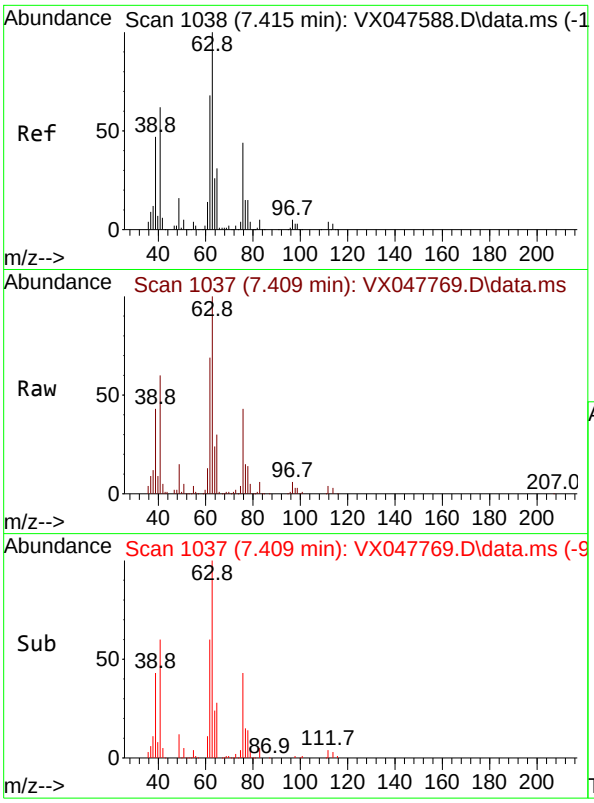


#44
Trichloroethene
Concen: 52.220 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:130 Resp: 98697

Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	210.8



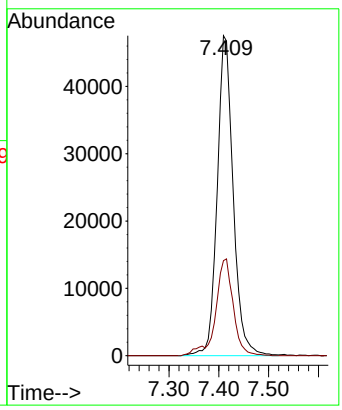


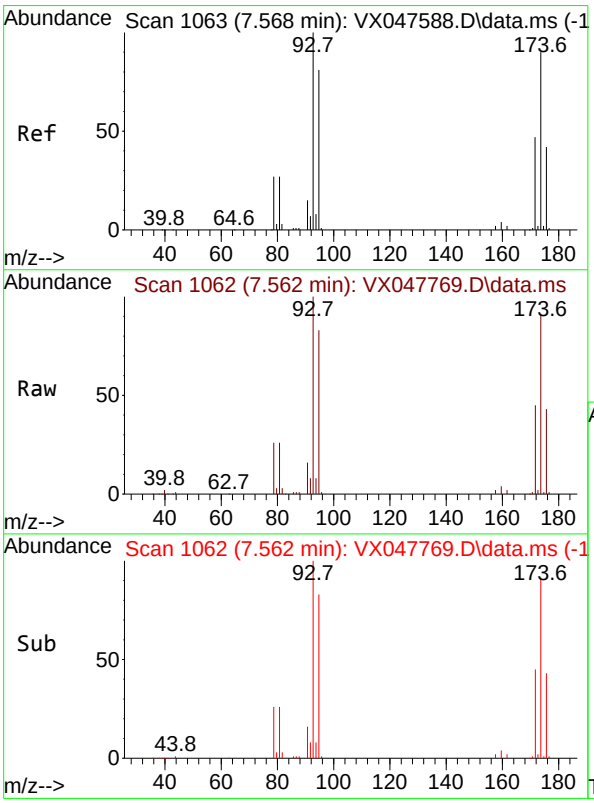
#45
1,2-Dichloropropane
Concen: 52.927 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 105950

Ion	Ratio	Lower	Upper
63	100		
65	29.7	24.7	37.1

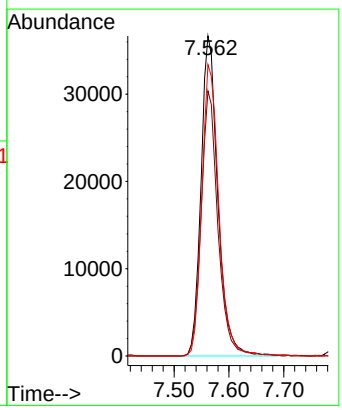


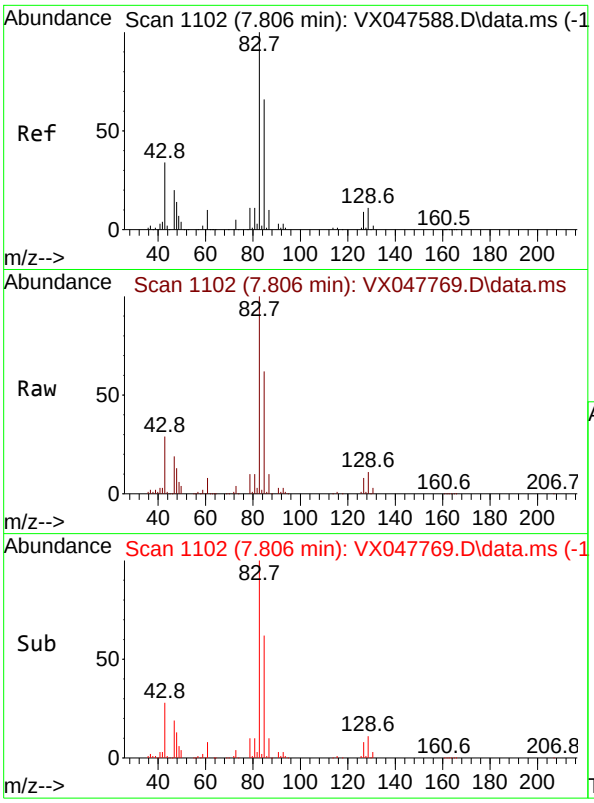


#46
Dibromomethane
Concen: 53.536 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 93 Resp: 77988

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.0	97.6
174	92.3	71.6	107.4



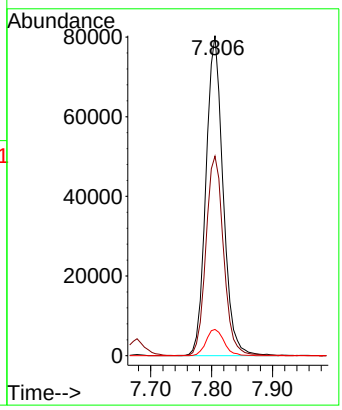


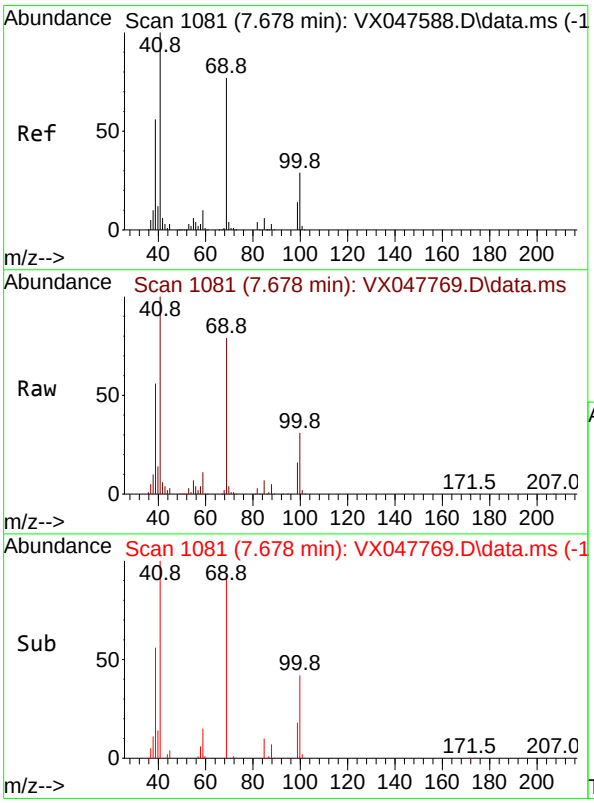
#47
Bromodichloromethane
Concen: 52.239 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 157033

Ion	Ratio	Lower	Upper
83	100		
85	62.2	52.5	78.7
127	8.2	6.9	10.3

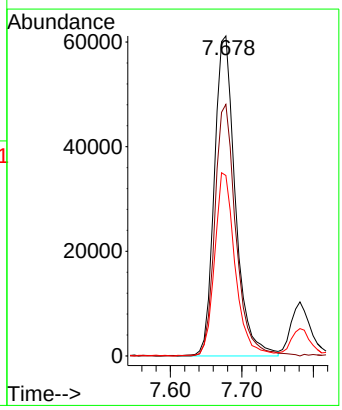


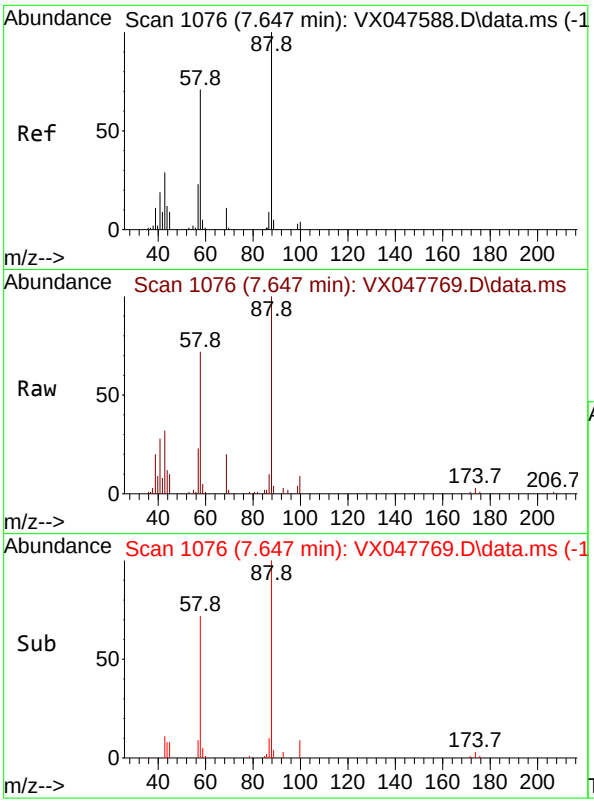


#48
Methyl methacrylate
Concen: 55.541 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 41 Resp: 125046

Ion	Ratio	Lower	Upper
41	100		
69	78.7	61.4	92.2
39	56.0	45.8	68.6



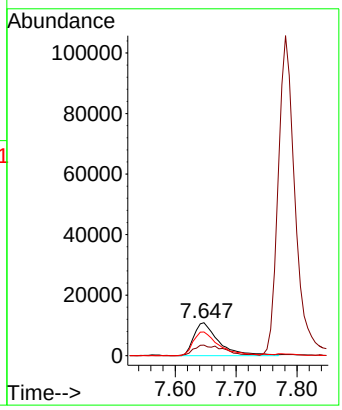


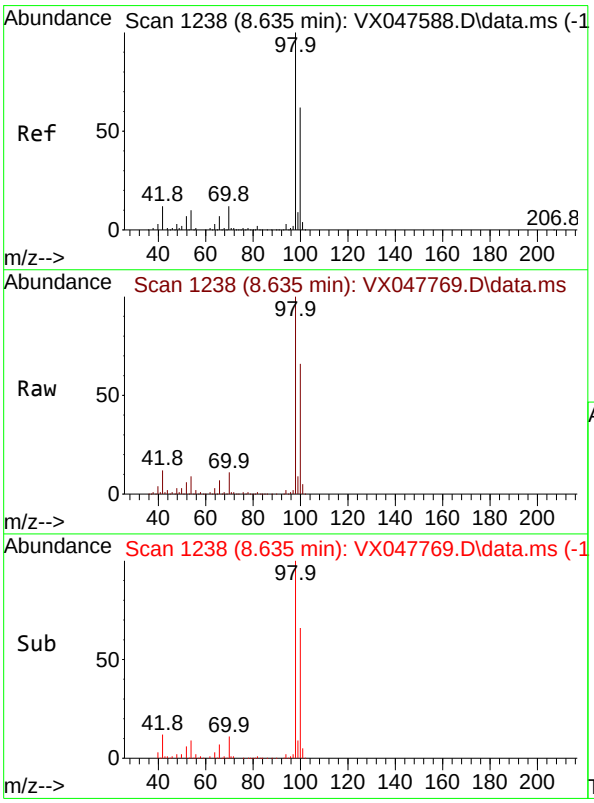
#49
1,4-Dioxane
Concen: 1363.725 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 31029

Ion	Ratio	Lower	Upper
88	100		
43	39.9	30.2	45.2
58	73.6	59.5	89.3

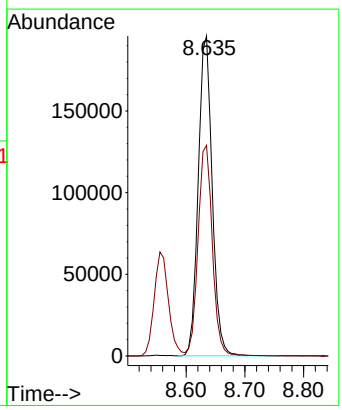


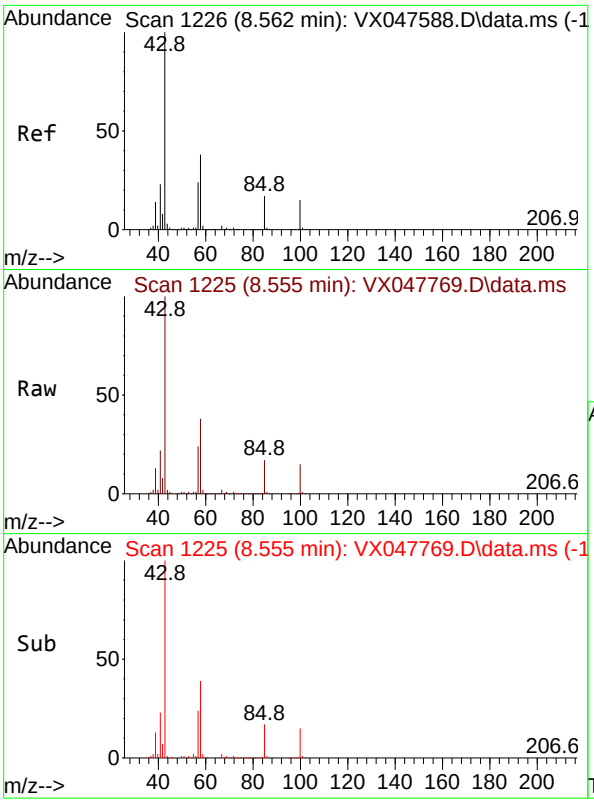


#50
Toluene-d8
Concen: 53.025 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 98 Resp: 323192

Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.0	79.4



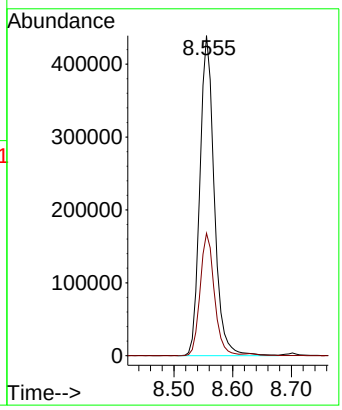


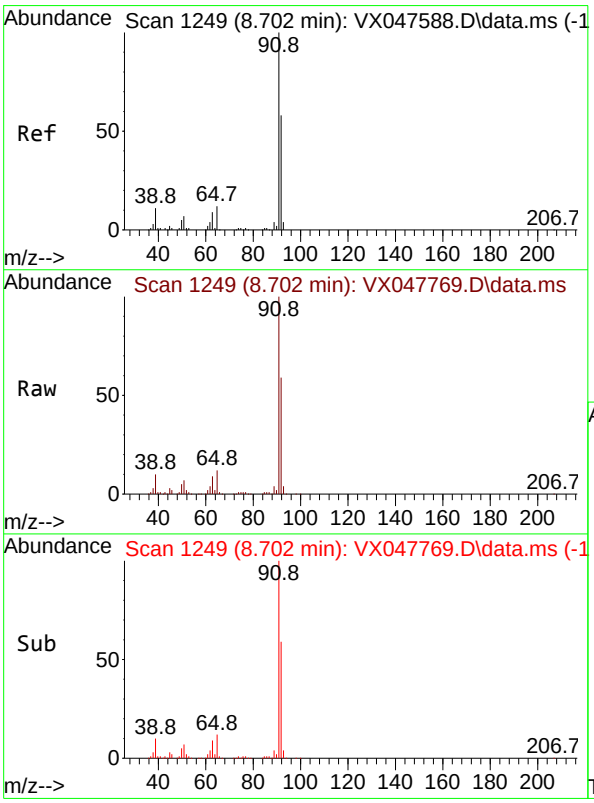
#51
4-Methyl-2-Pentanone
Concen: 296.757 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 743688

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

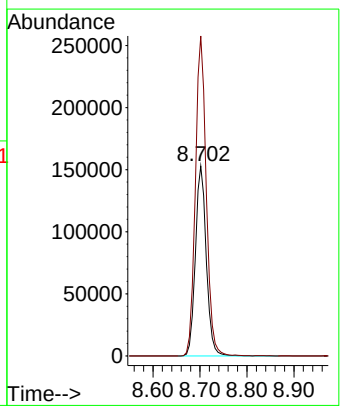


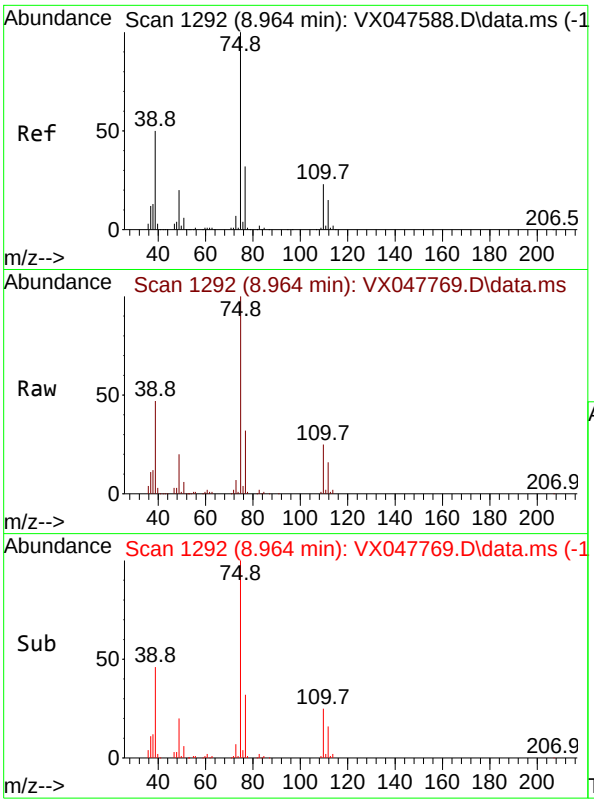


#52
Toluene
Concen: 51.255 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 92 Resp: 246870

Ion	Ratio	Lower	Upper
92	100		
91	168.5	137.1	205.7



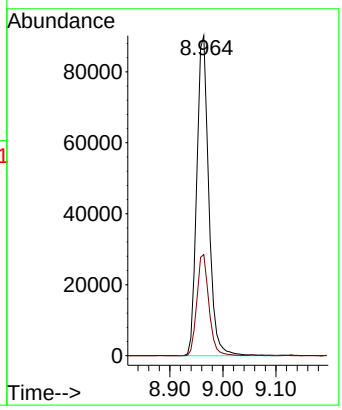


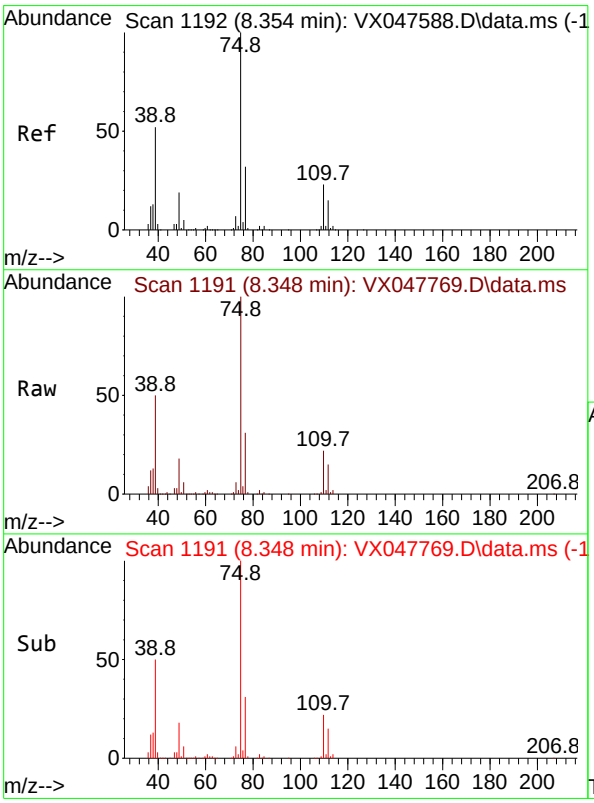
#53
t-1,3-Dichloropropene
Concen: 46.340 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 142087

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

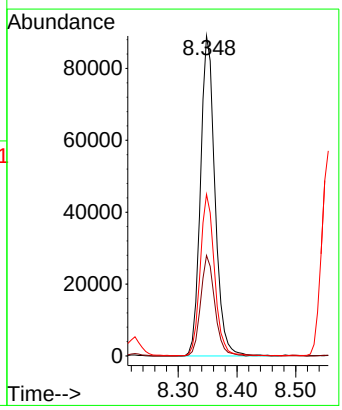


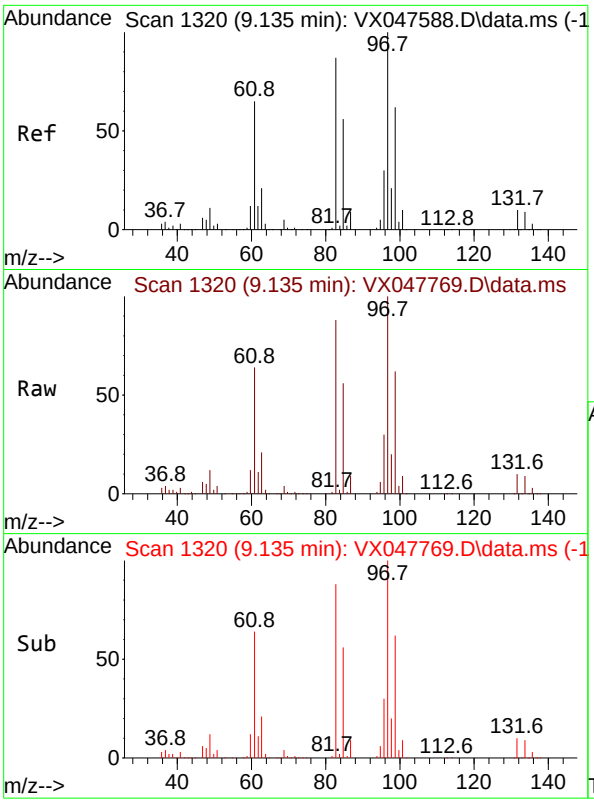


#54
cis-1,3-Dichloropropene
Concen: 46.603 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 152733

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	50.3	41.4	62.2



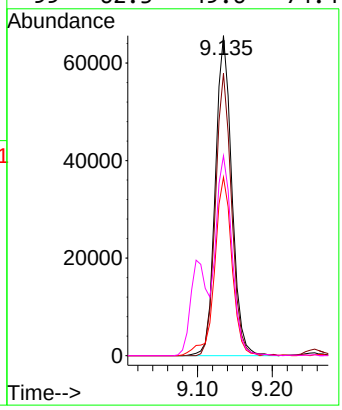


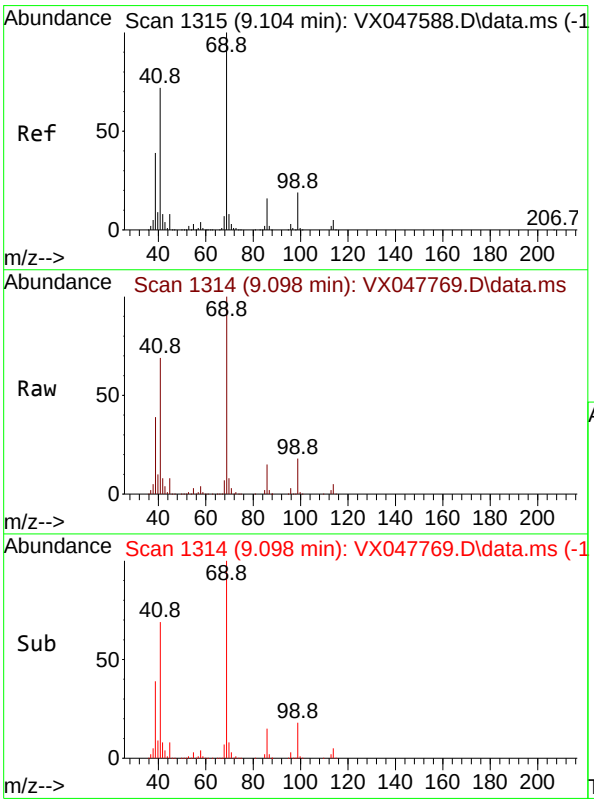
#55
1,1,2-Trichloroethane
Concen: 54.130 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 100531

Ion	Ratio	Lower	Upper
97	100		
83	88.2	69.6	104.4
85	55.8	45.0	67.6
99	62.3	49.6	74.4

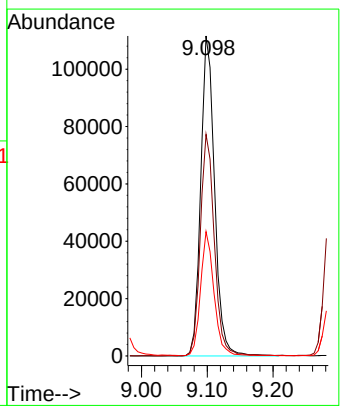


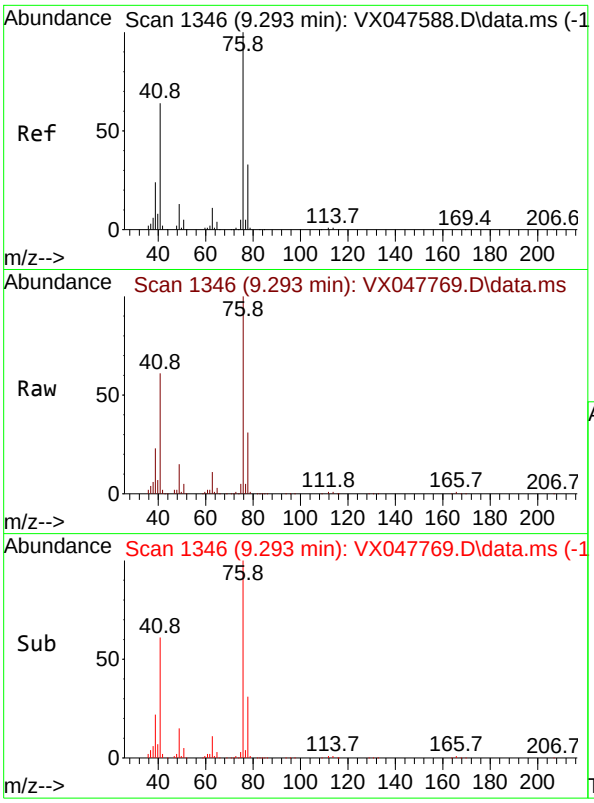


#56
Ethyl methacrylate
Concen: 56.125 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 69 Resp: 163699

Ion	Ratio	Lower	Upper
69	100		
41	70.2	58.6	87.8
39	38.1	31.5	47.3



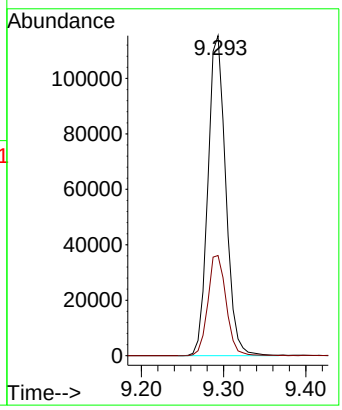


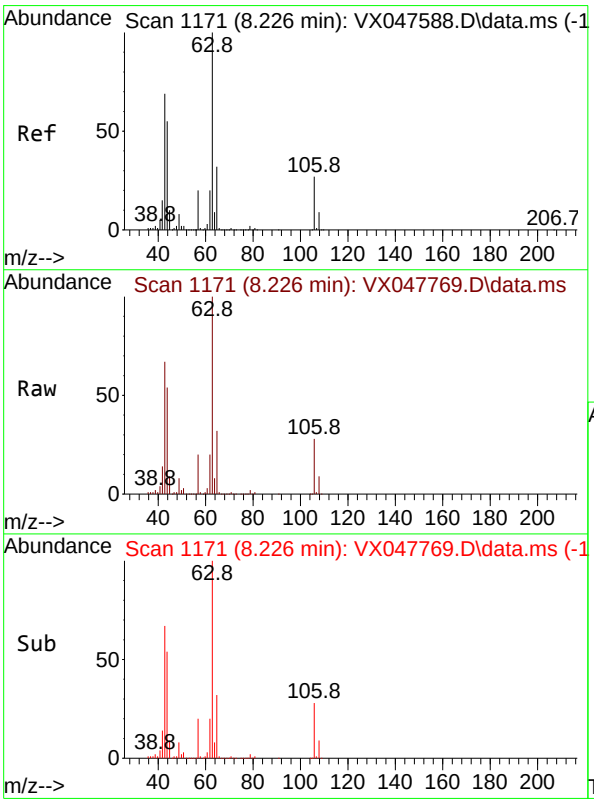
#57
1,3-Dichloropropane
Concen: 54.475 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 173795

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4

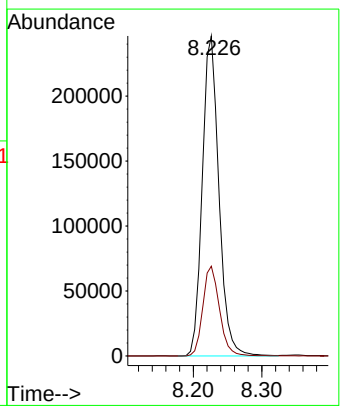


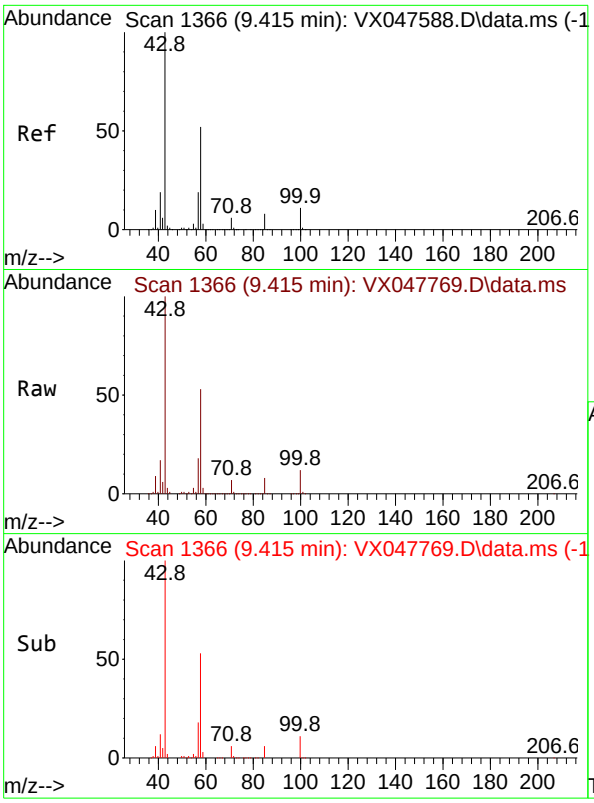


#58
2-Chloroethyl Vinyl ether
Concen: 295.083 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 63 Resp: 416075

Ion	Ratio	Lower	Upper
63	100		
106	28.1	21.9	32.9



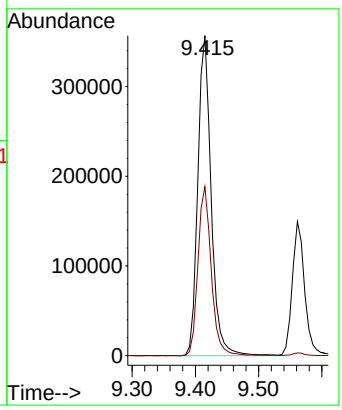


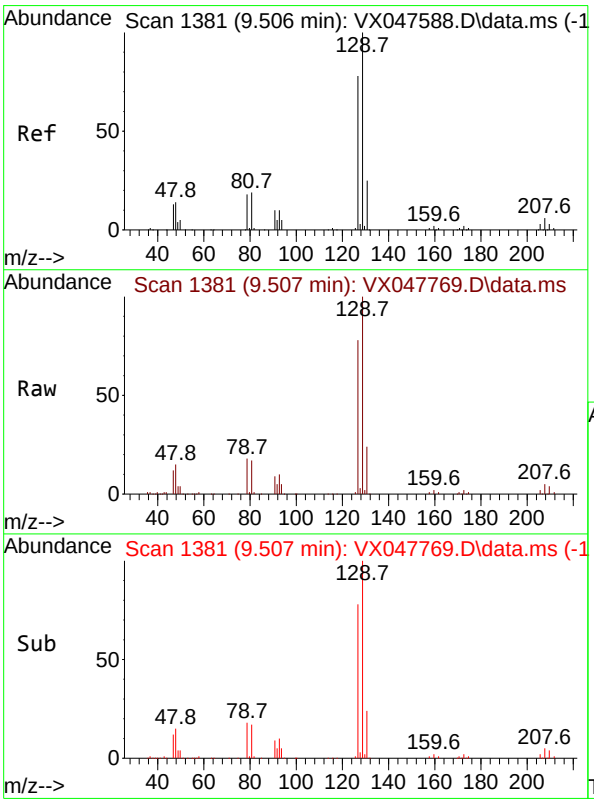
#59
2-Hexanone
Concen: 291.132 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 523995

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.1	78.2

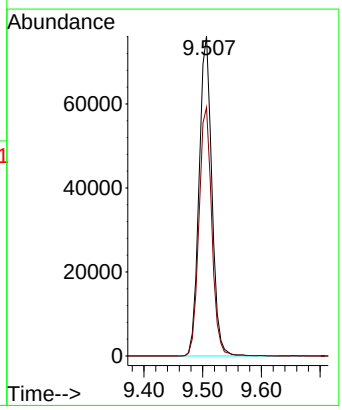


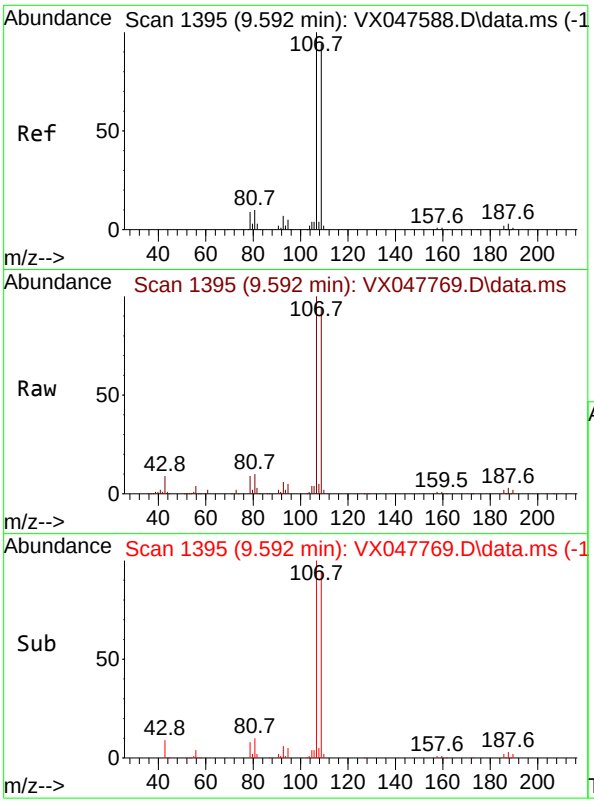


#60
Dibromochloromethane
Concen: 53.426 ug/l
RT: 9.507 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:129 Resp: 114327

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.4	115.2



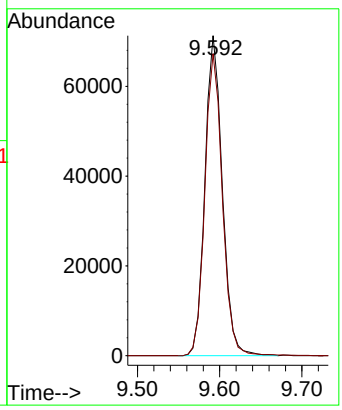


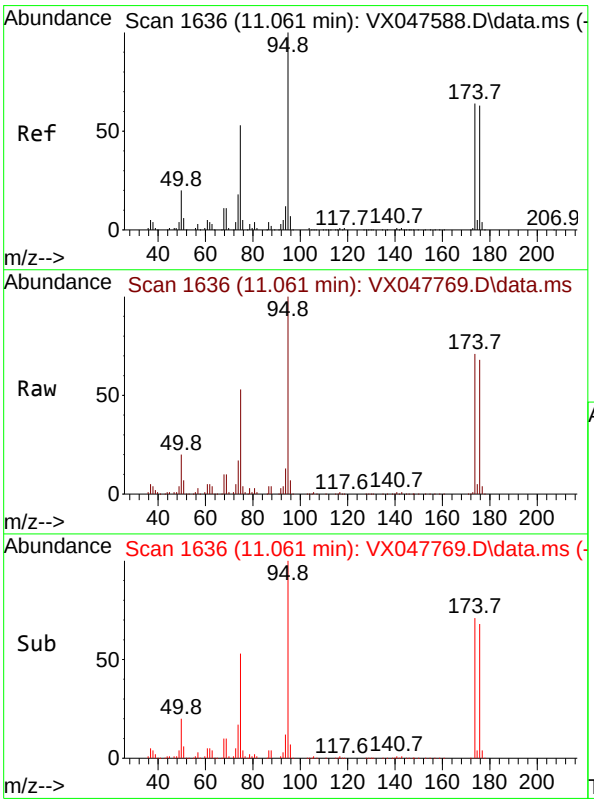
#61
1,2-Dibromoethane
Concen: 55.355 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 104712

Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.3	112.9

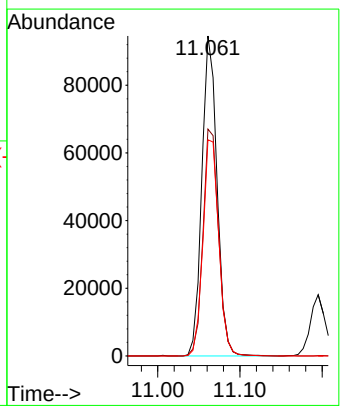


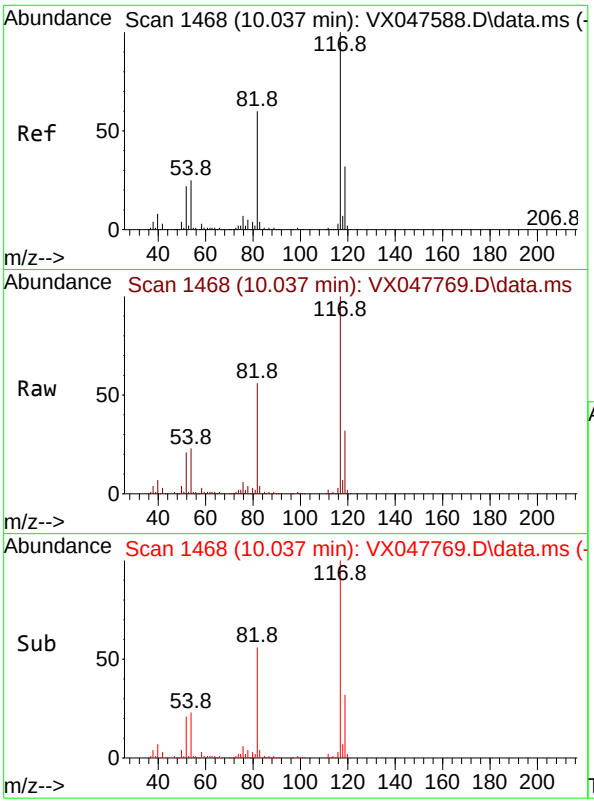


#62
4-Bromofluorobenzene
Concen: 52.449 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 95 Resp: 121324

Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	141.6
176	70.5	0.0	138.4



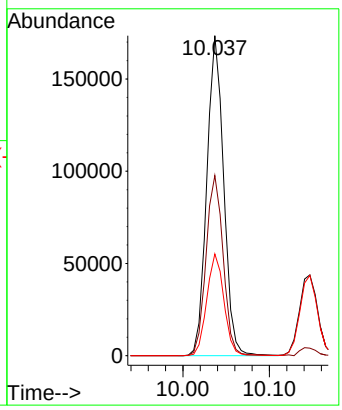


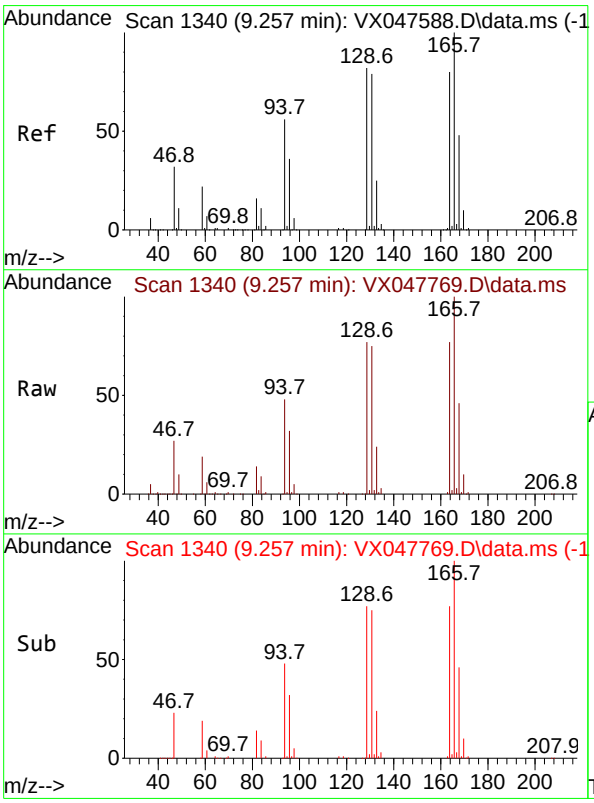
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 234932

Ion	Ratio	Lower	Upper
117	100		
82	56.3	47.8	71.6
119	31.8	25.2	37.8

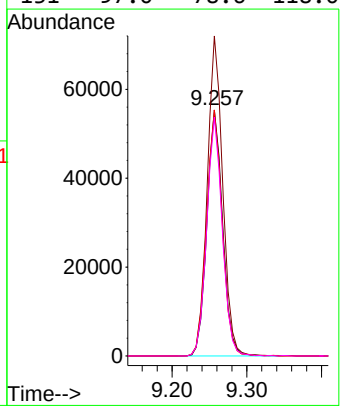


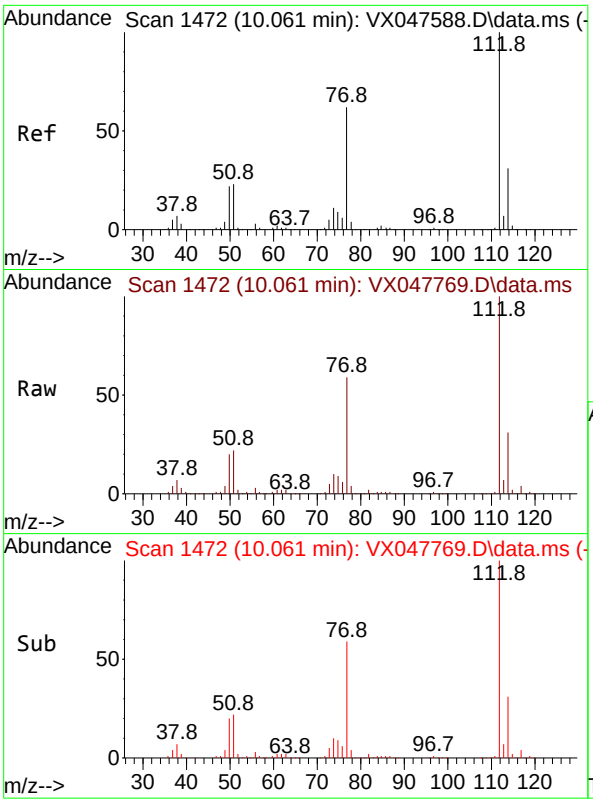


#64
Tetrachloroethene
Concen: 52.796 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:164 Resp: 80858

Ion	Ratio	Lower	Upper
164	100		
166	130.1	100.2	150.2
129	100.1	81.8	122.6
131	97.0	78.6	118.0



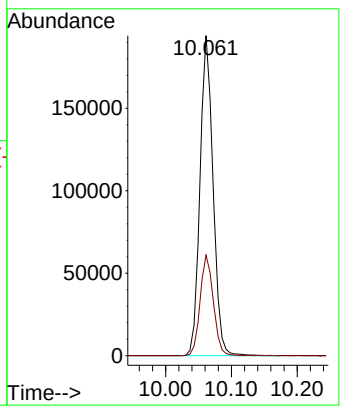


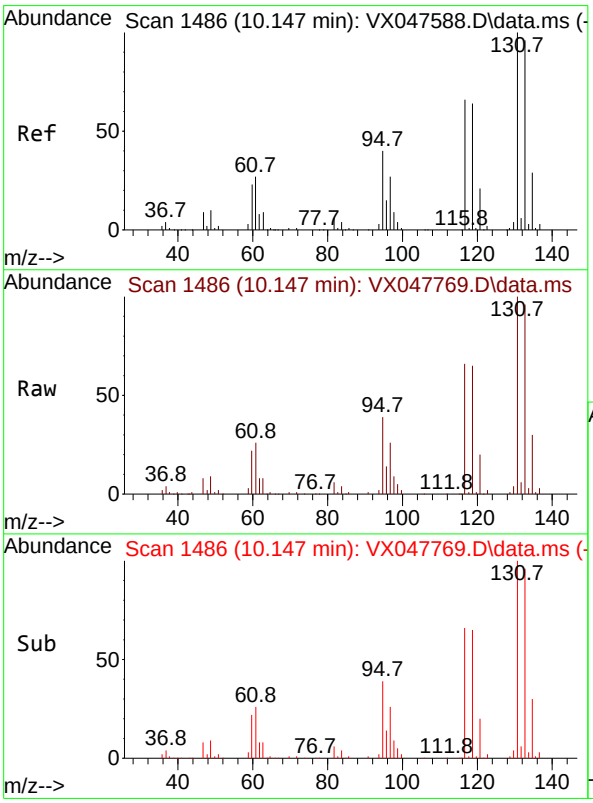
#65
Chlorobenzene
Concen: 50.214 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 268000

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

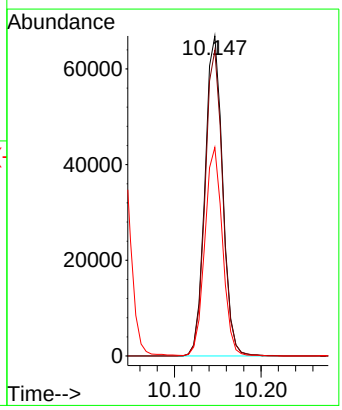


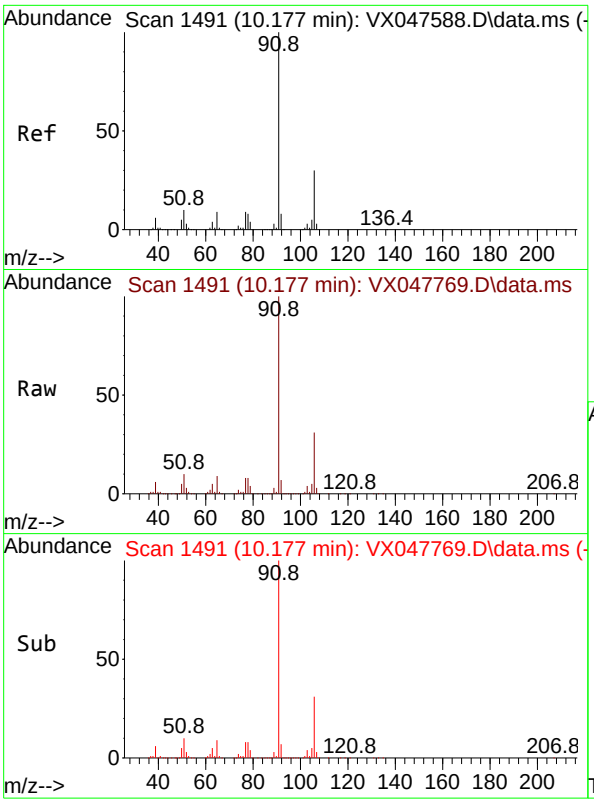


#66
1,1,1,2-Tetrachloroethane
Concen: 51.406 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:131 Resp: 94676

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	142.0
119	65.4	32.0	96.0



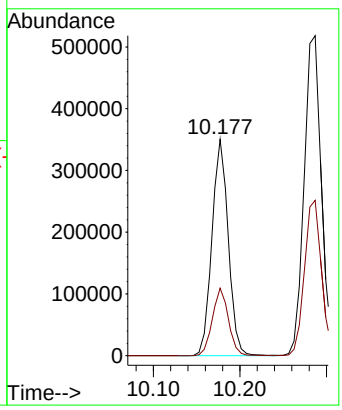


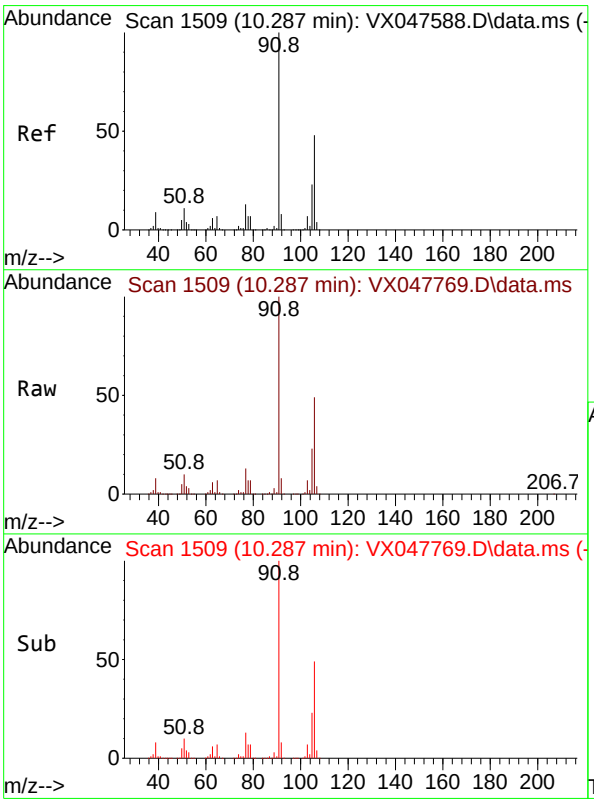
#67
Ethyl Benzene
Concen: 49.776 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 458381

Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.3	36.5

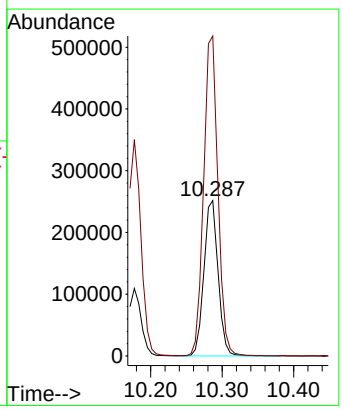


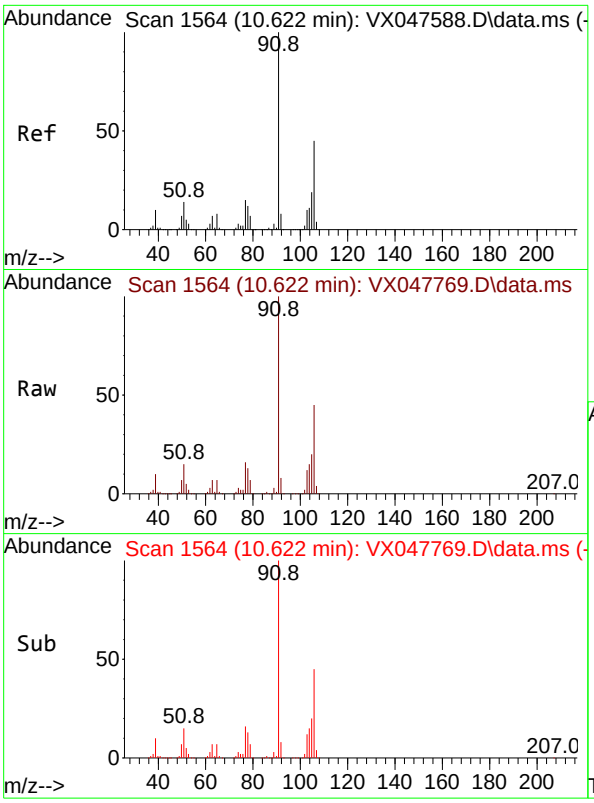


#68
m/p-Xylenes
Concen: 100.941 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:106 Resp: 345991

Ion	Ratio	Lower	Upper
106	100		
91	207.9	167.8	251.8



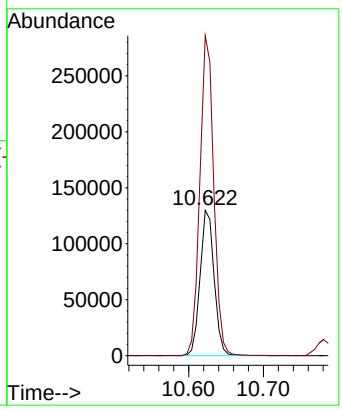


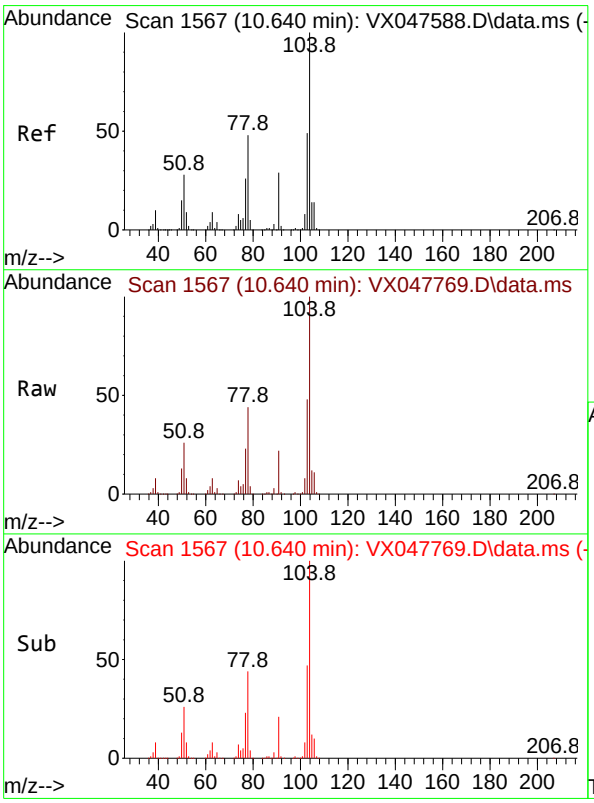
#69
o-Xylene
Concen: 51.084 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 169360

Ion	Ratio	Lower	Upper
106	100		
91	218.4	111.1	333.4

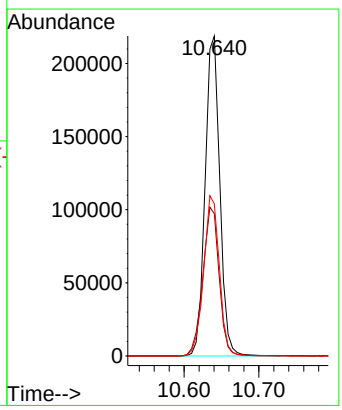


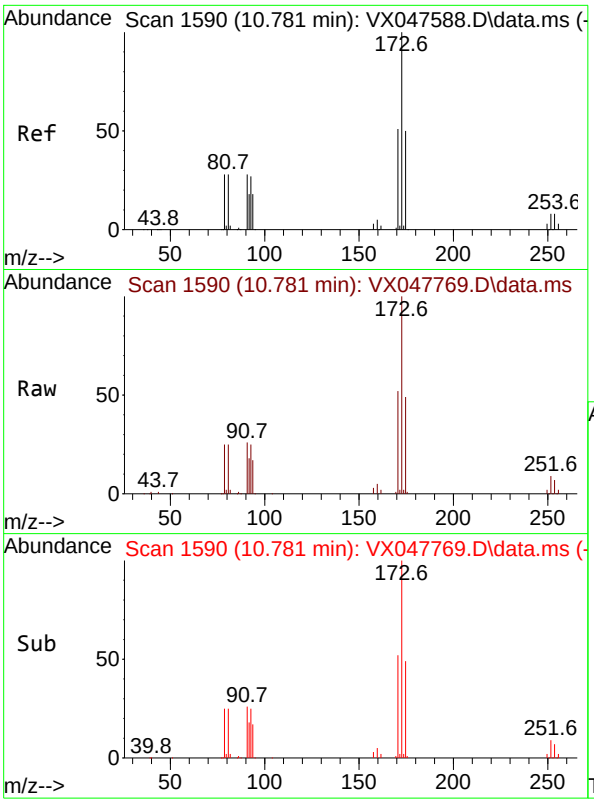


#70
Styrene
Concen: 51.423 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:104 Resp: 298721

Ion	Ratio	Lower	Upper
104	100		
78	51.5	43.1	64.7
103	53.7	43.1	64.7



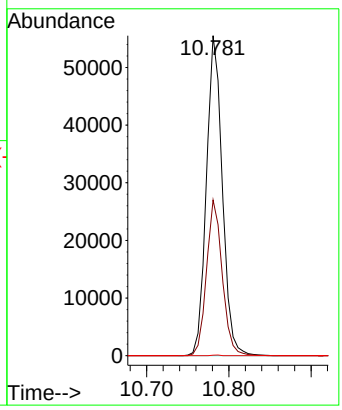


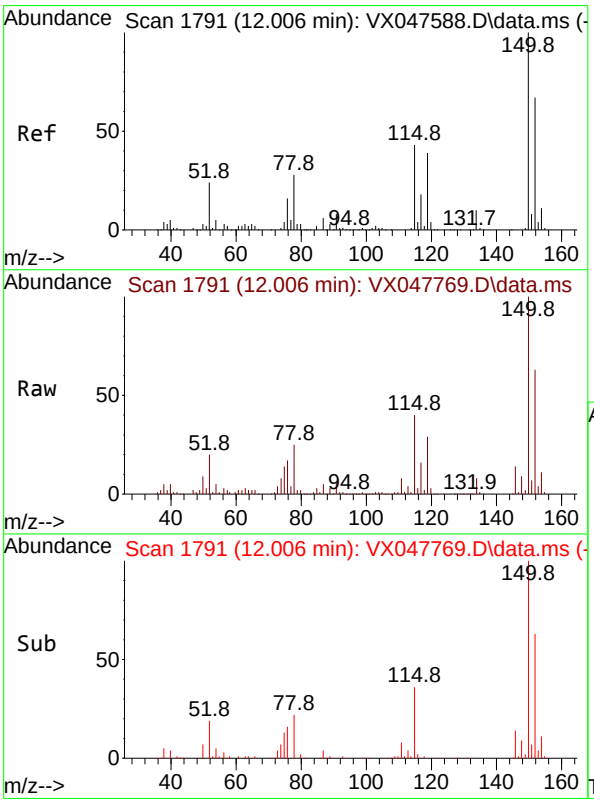
#71
Bromoform
Concen: 54.272 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 74635

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.9	74.6
254	0.1	0.1	0.1

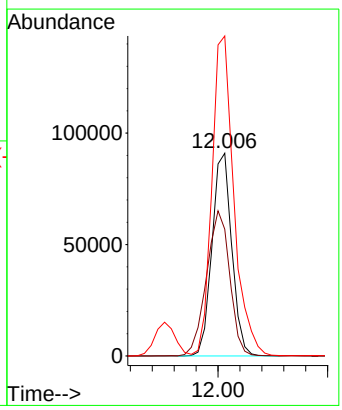


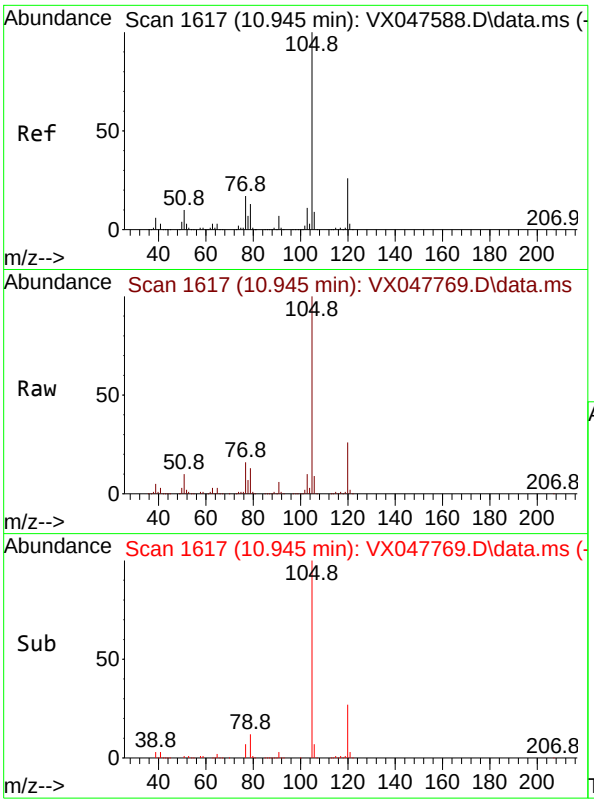


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:152 Resp: 114093

Ion	Ratio	Lower	Upper
152	100		
115	84.3	44.9	134.5
150	174.6	0.0	352.0



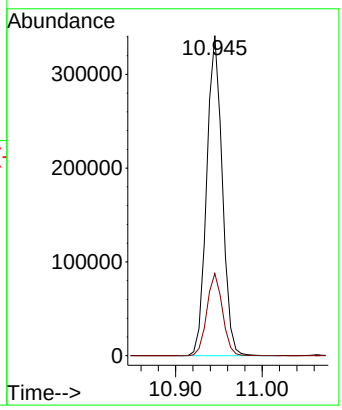


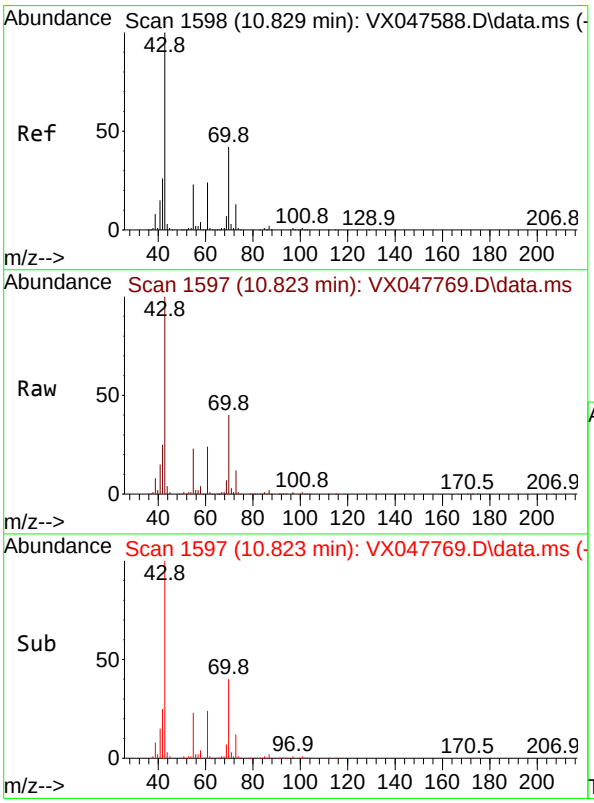
#73
Isopropylbenzene
Concen: 49.073 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 425664

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.4

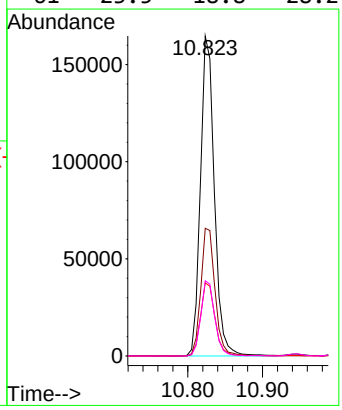


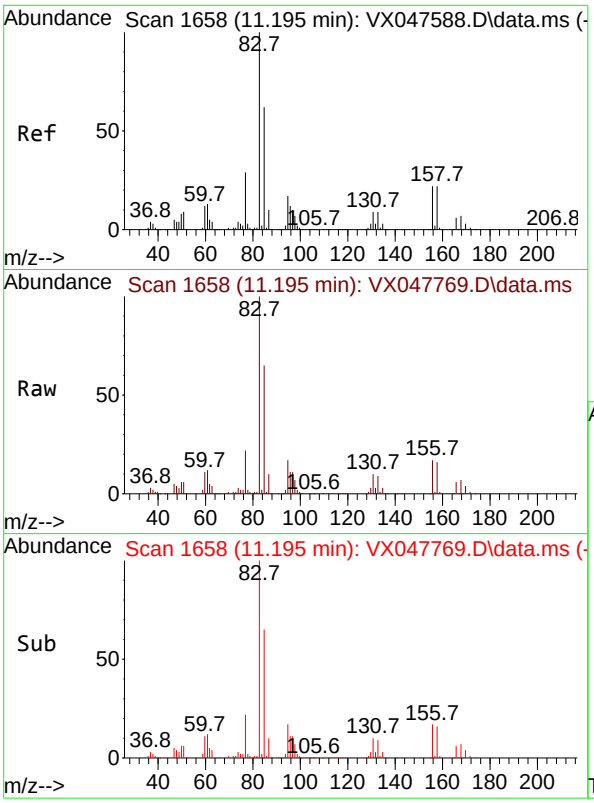


#74
N-amyl acetate
Concen: 53.964 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 43 Resp: 213456

Ion	Ratio	Lower	Upper
43	100		
70	40.8	32.0	48.0
55	23.8	18.9	28.3
61	23.5	18.8	28.2



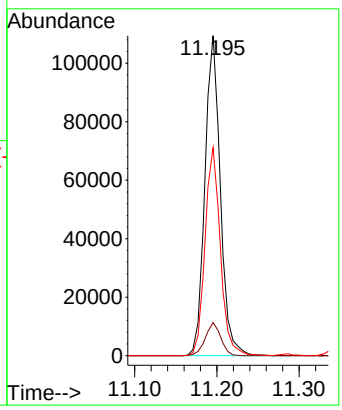


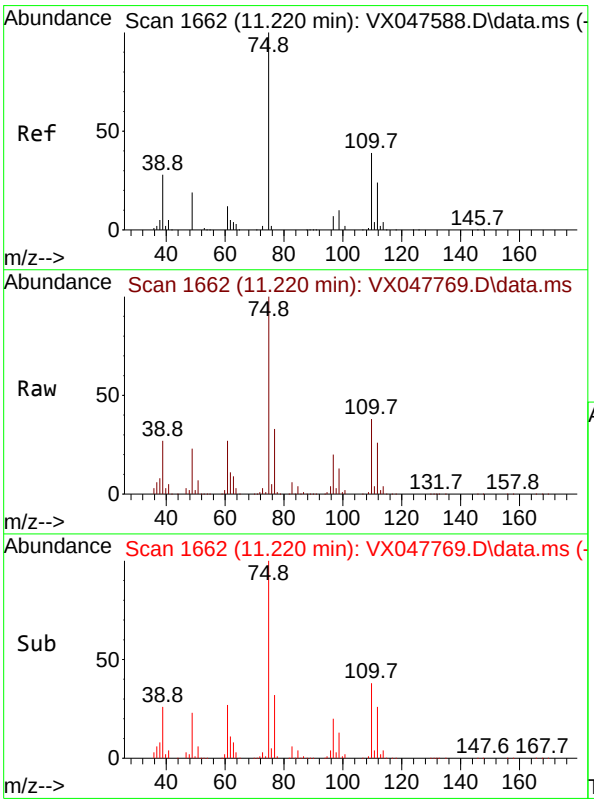
#75
1,1,2,2-Tetrachloroethane
Concen: 54.463 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 142930

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	64.7	31.6	95.0

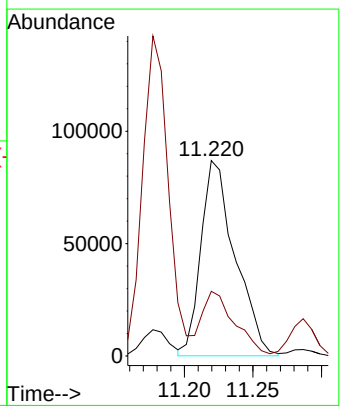


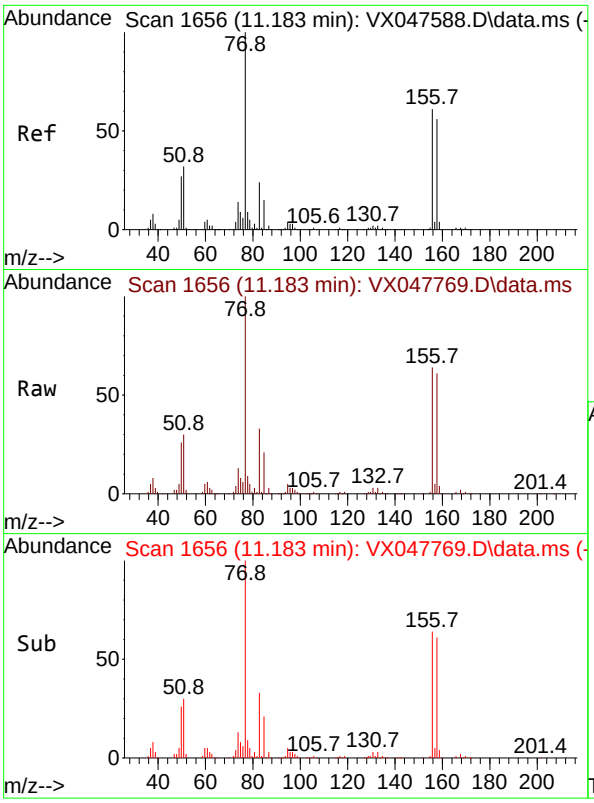


#76
1,2,3-Trichloropropane
Concen: 65.498 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 151302

Ion	Ratio	Lower	Upper
75	100		
77	33.0	18.8	56.4



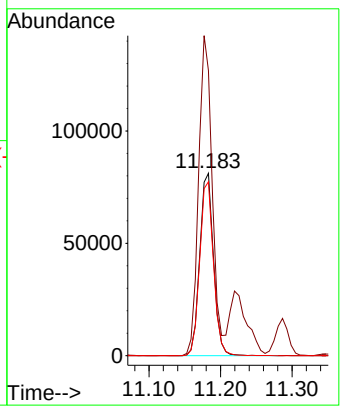


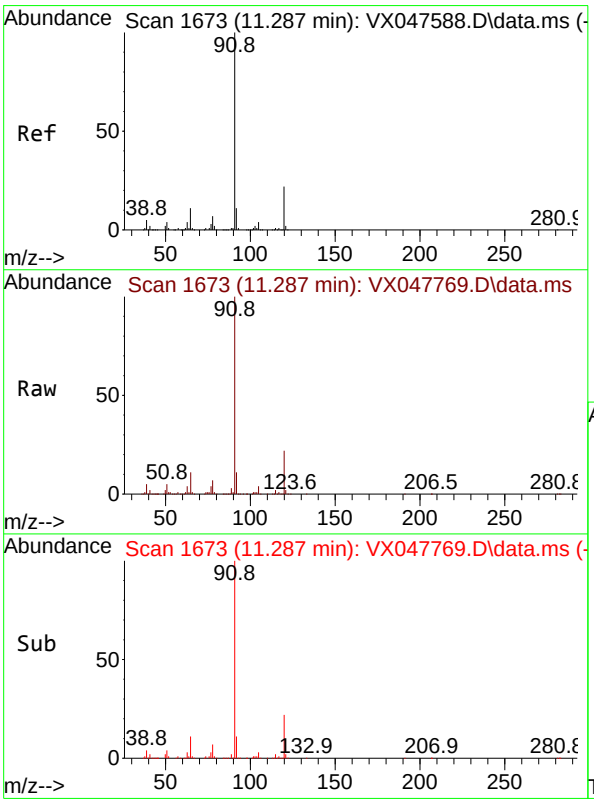
#77
Bromobenzene
Concen: 50.743 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 108405

Ion	Ratio	Lower	Upper
156	100		
77	171.5	89.7	269.1
158	95.7	47.9	143.6

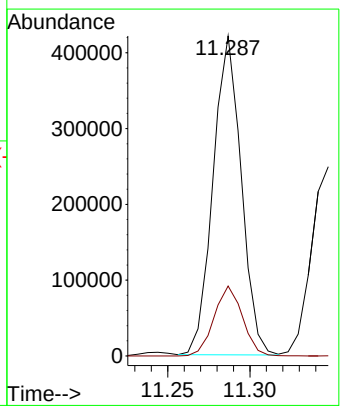


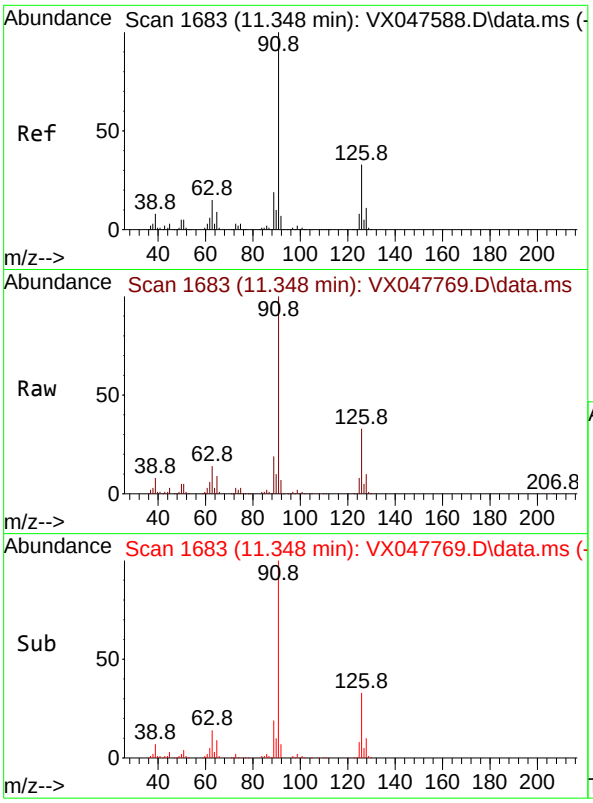


#78
n-propylbenzene
Concen: 48.849 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 91 Resp: 500892

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1



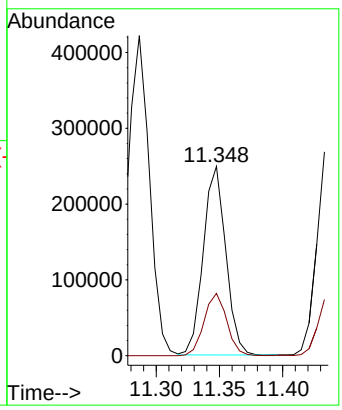


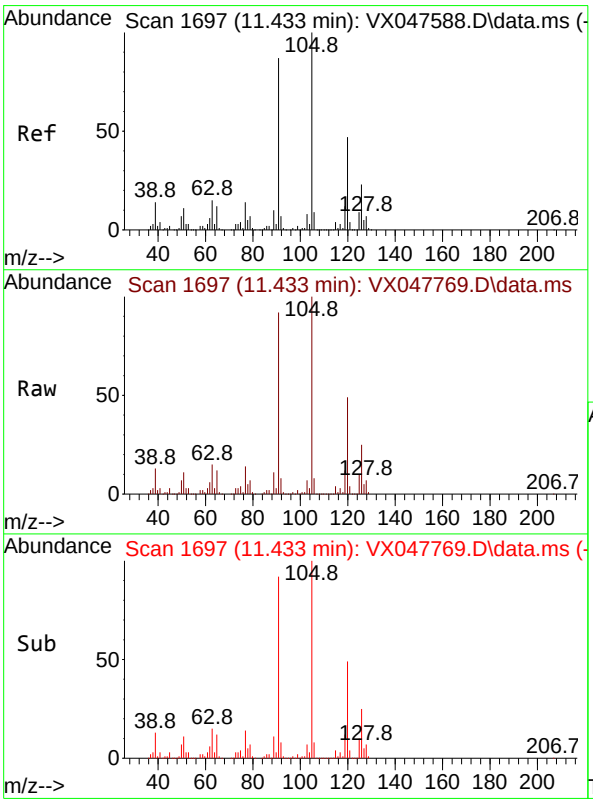
#79
2-Chlorotoluene
Concen: 49.053 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 308064

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.1	48.3

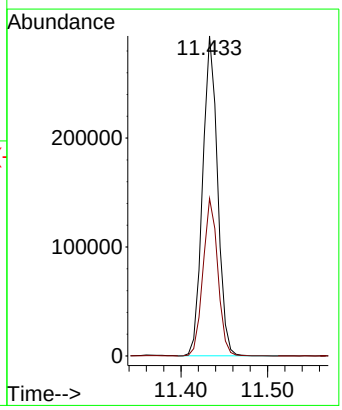


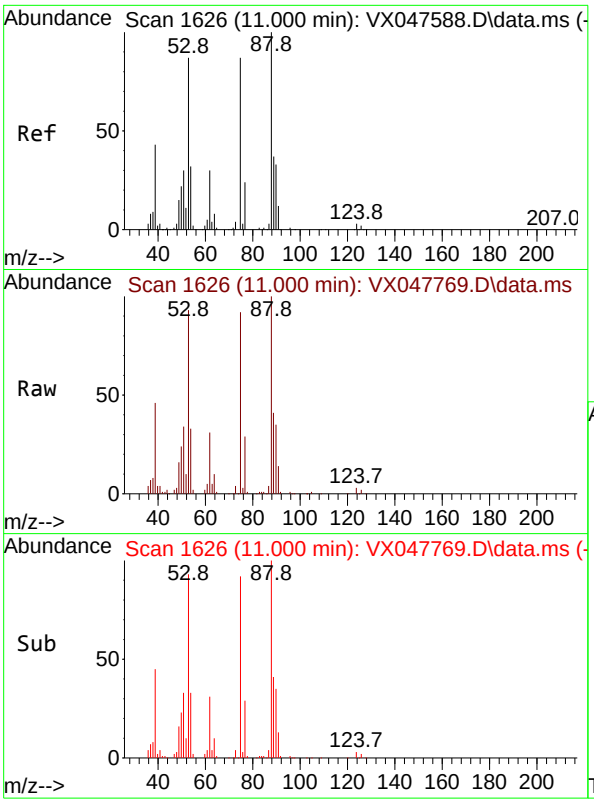


#80
1,3,5-Trimethylbenzene
Concen: 49.271 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:105 Resp: 351131

Ion	Ratio	Lower	Upper
105	100		
120	48.8	23.6	70.8



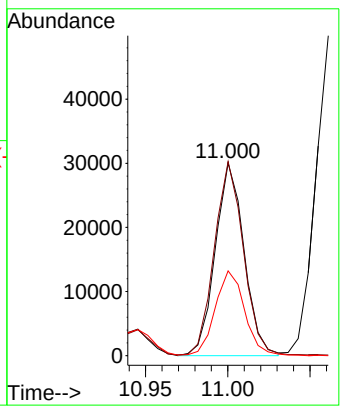


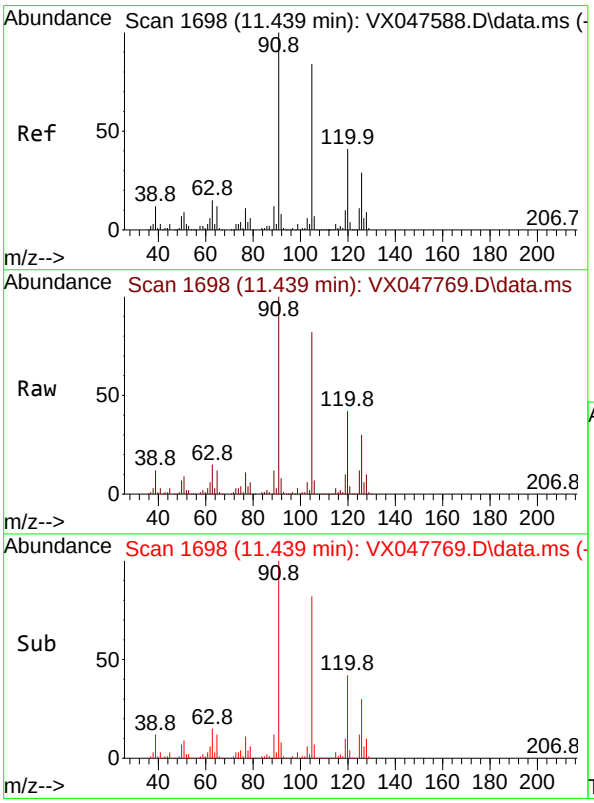
#81
trans-1,4-Dichloro-2-butene
Concen: 40.467 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 36657

Ion	Ratio	Lower	Upper
75	100		
53	101.3	83.4	125.2
89	45.1	36.3	54.5

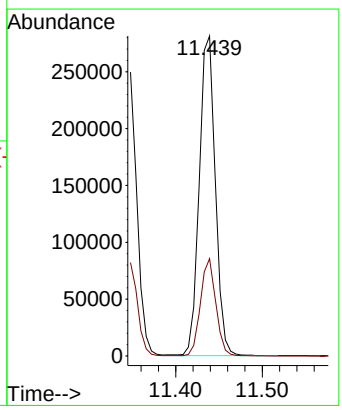


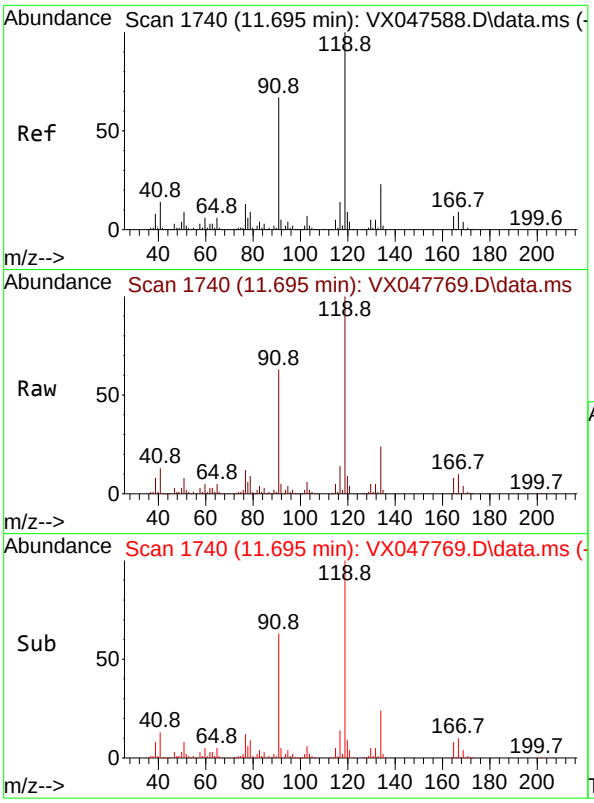


#82
4-Chlorotoluene
Concen: 48.802 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 91 Resp: 361984

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.2	42.6



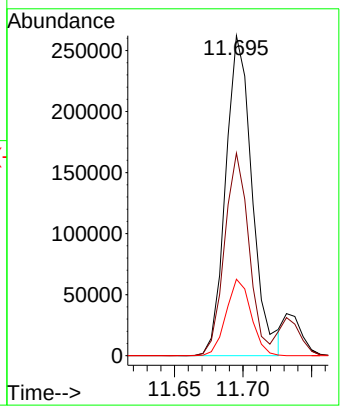


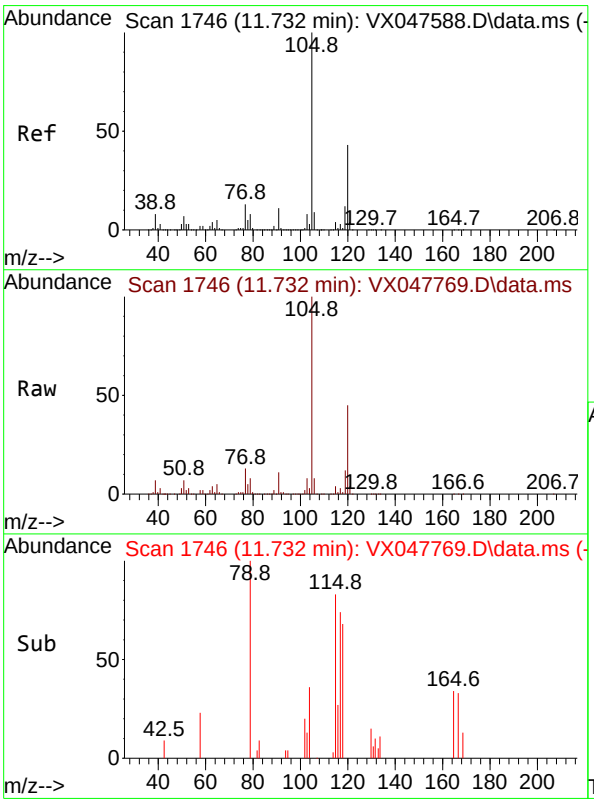
#83
tert-Butylbenzene
Concen: 48.261 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 352077

Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.6	88.8
134	22.6	11.0	33.0

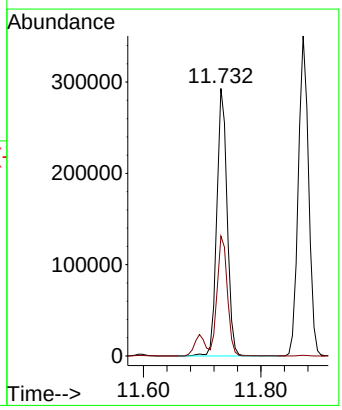


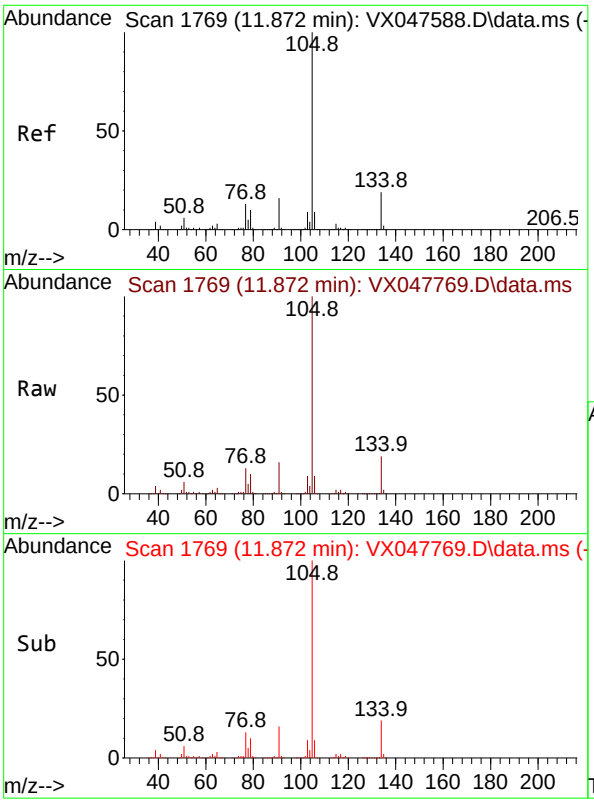


#84
1,2,4-Trimethylbenzene
Concen: 49.229 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:105 Resp: 355686

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1



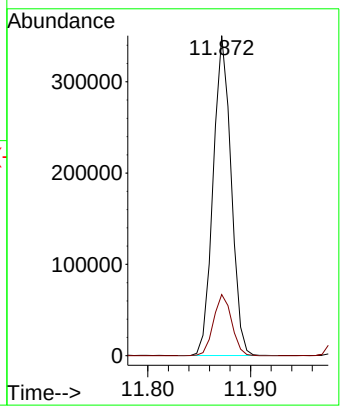


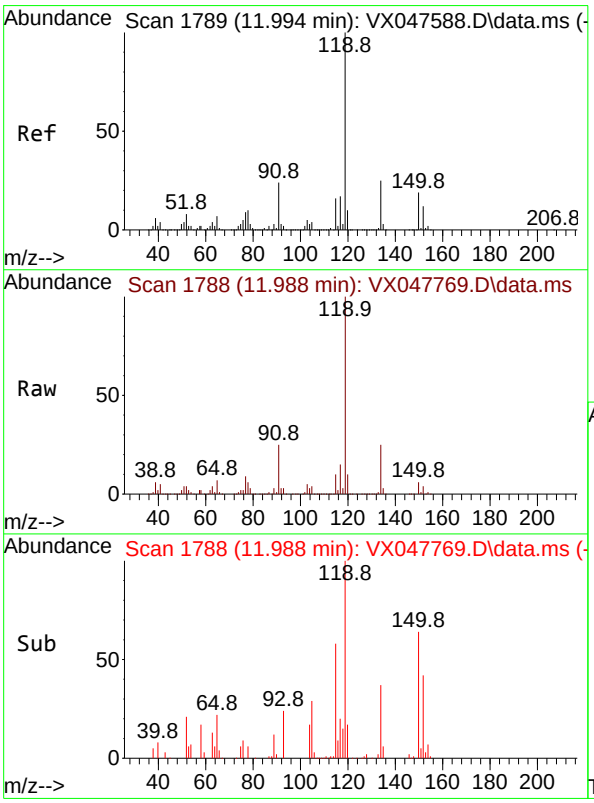
#85
sec-Butylbenzene
Concen: 49.078 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 425279

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5

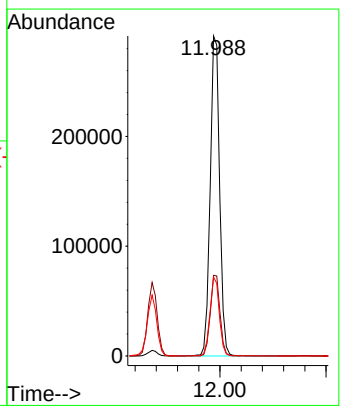


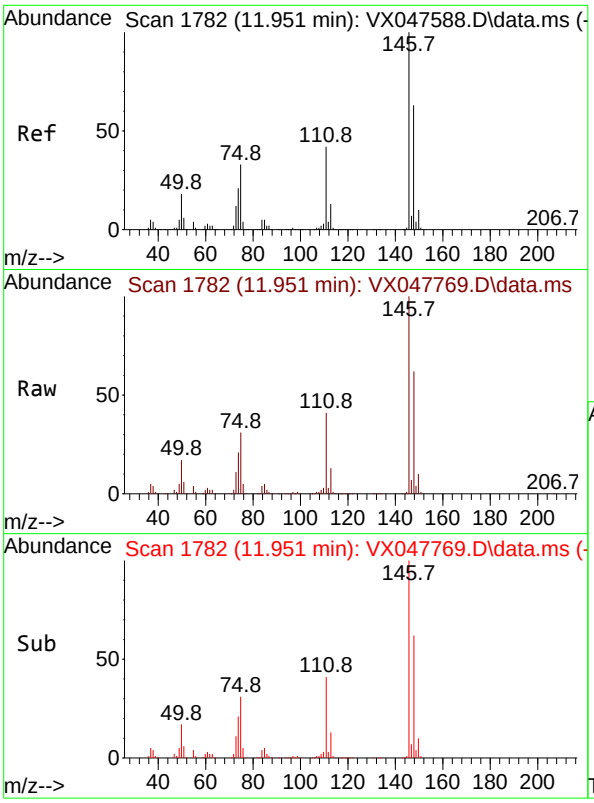


#86
p-Isopropyltoluene
Concen: 48.845 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:119 Resp: 358328

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	24.5	12.6	37.6



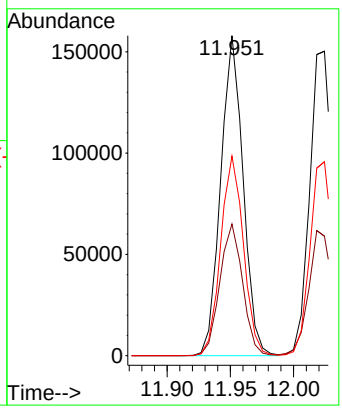


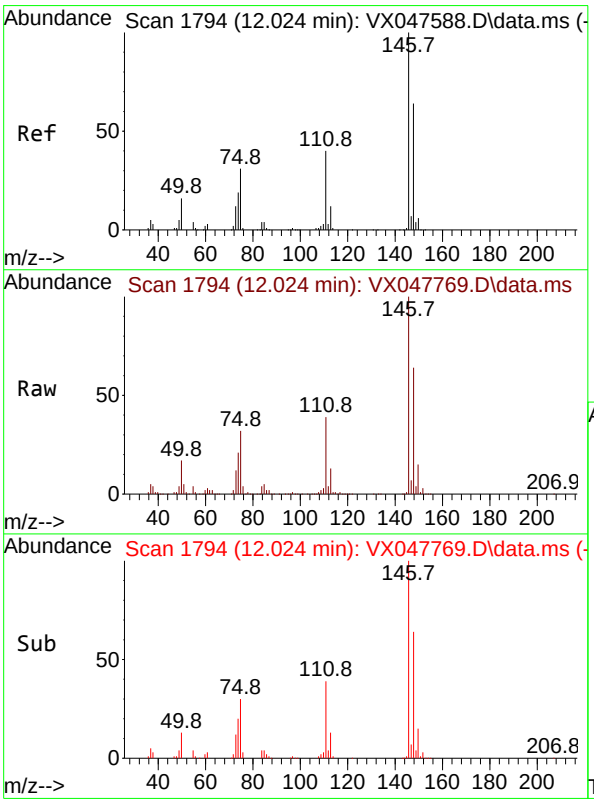
#87
1,3-Dichlorobenzene
Concen: 48.977 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 194346

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	63.4	32.0	96.0

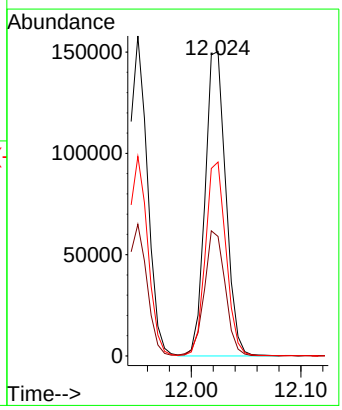


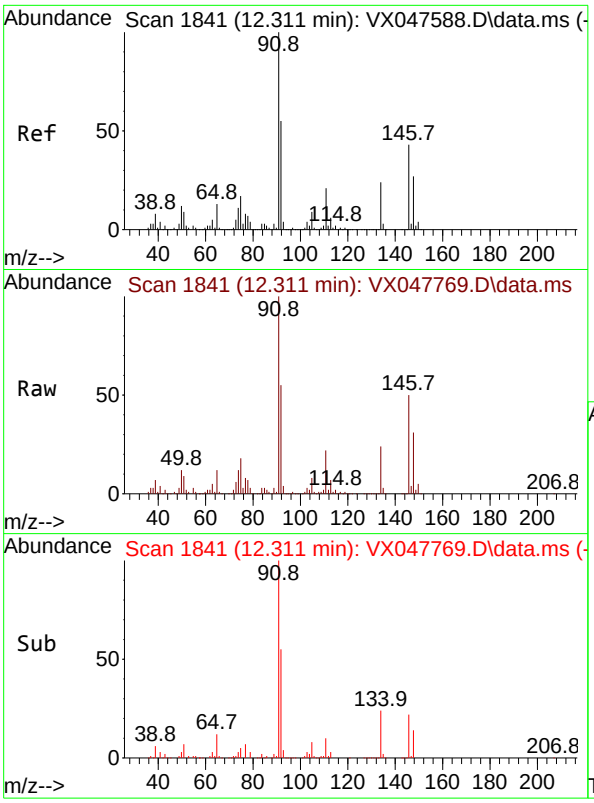


#88
1,4-Dichlorobenzene
Concen: 48.412 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:146 Resp: 197165

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.8	62.4
148	63.3	31.7	95.1



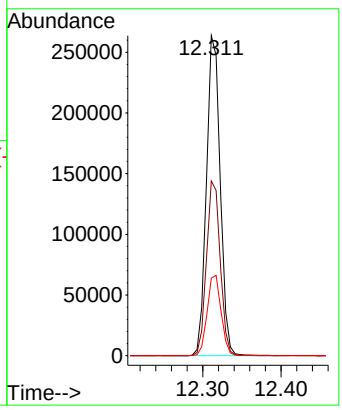


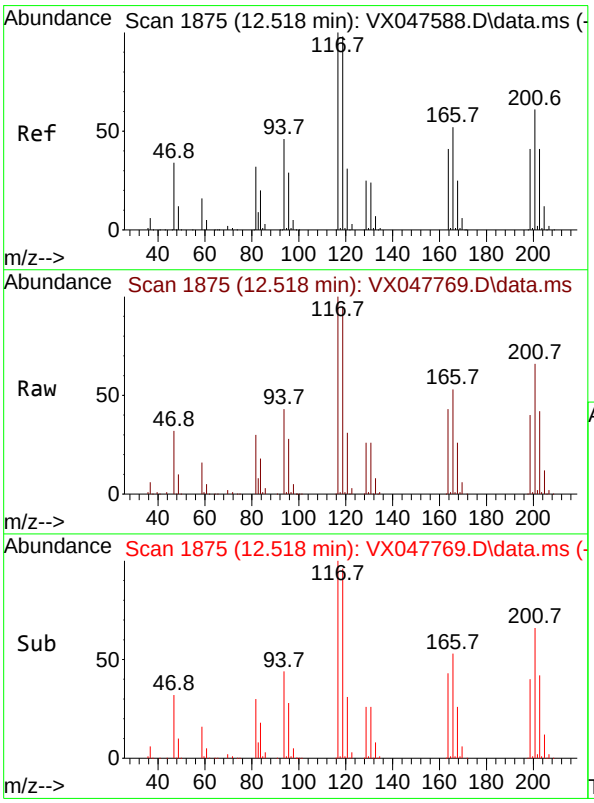
#89
n-Butylbenzene
Concen: 47.219 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 320524

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.5	12.6	37.8

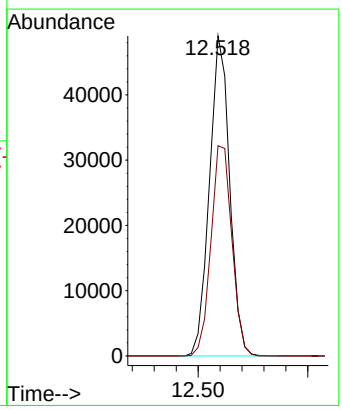


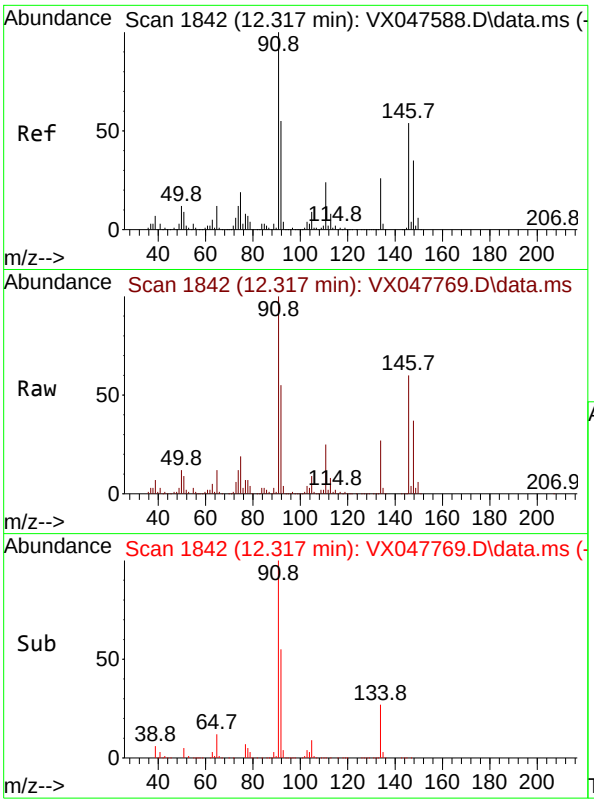


#90
Hexachloroethane
Concen: 48.665 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:117 Resp: 62680

Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.2	102.5



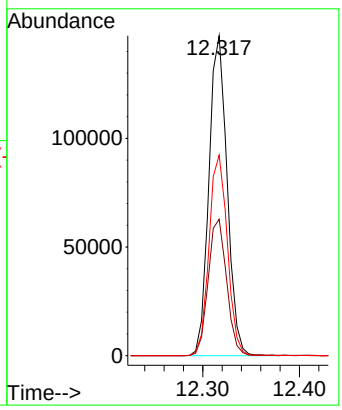


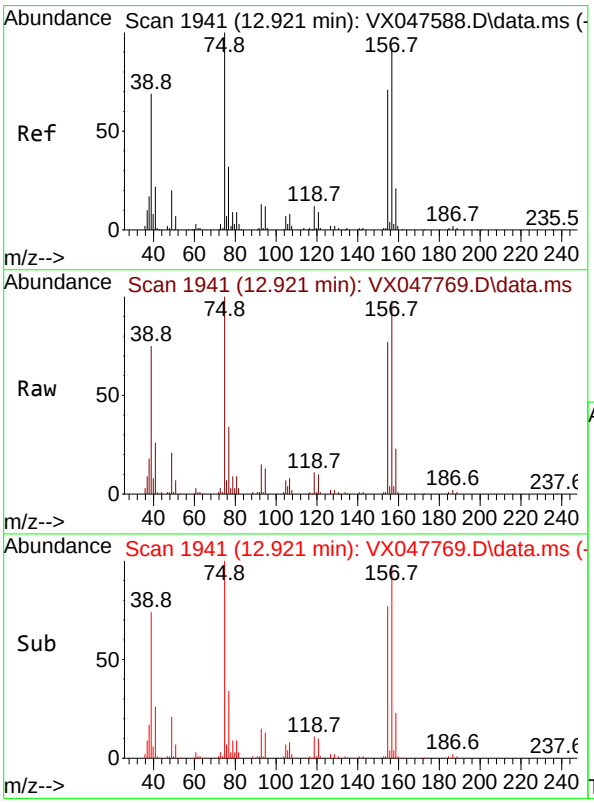
#91
1,2-Dichlorobenzene
Concen: 50.735 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 191801

Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.2	66.6
148	63.4	31.8	95.4

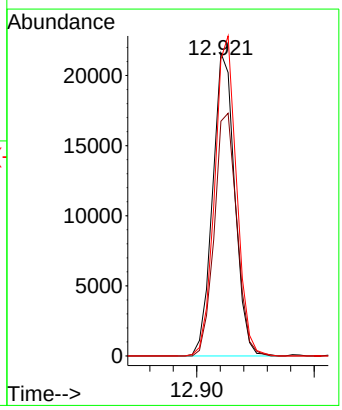


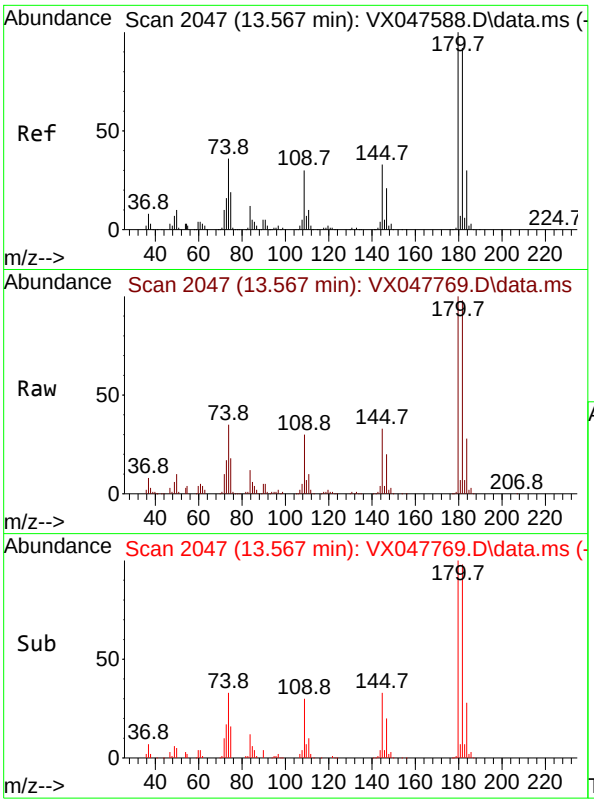


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.180 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion: 75 Resp: 28256

Ion	Ratio	Lower	Upper
75	100		
155	81.4	37.7	113.1
157	104.3	49.8	149.4



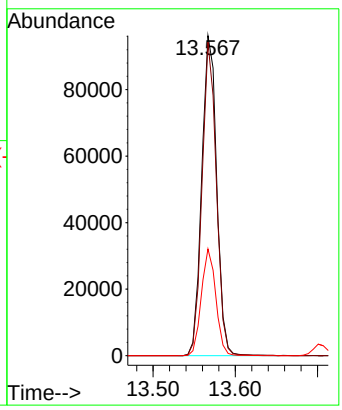


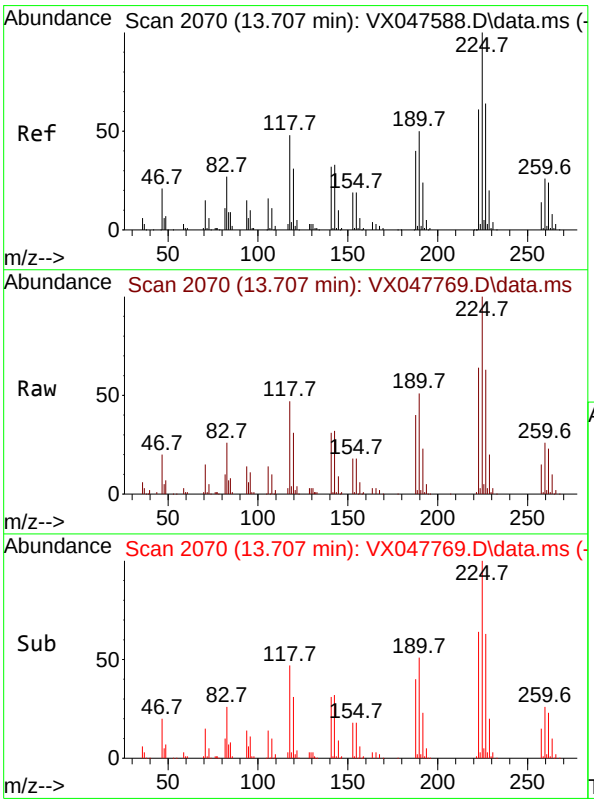
#93
1,2,4-Trichlorobenzene
Concen: 49.455 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 121509

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.6	139.8
145	32.3	16.4	49.1

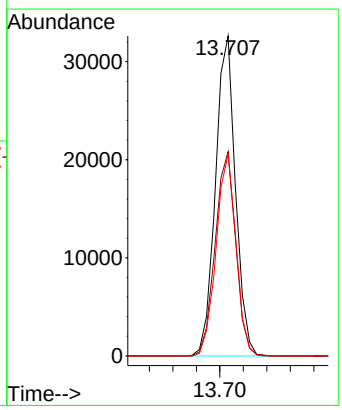


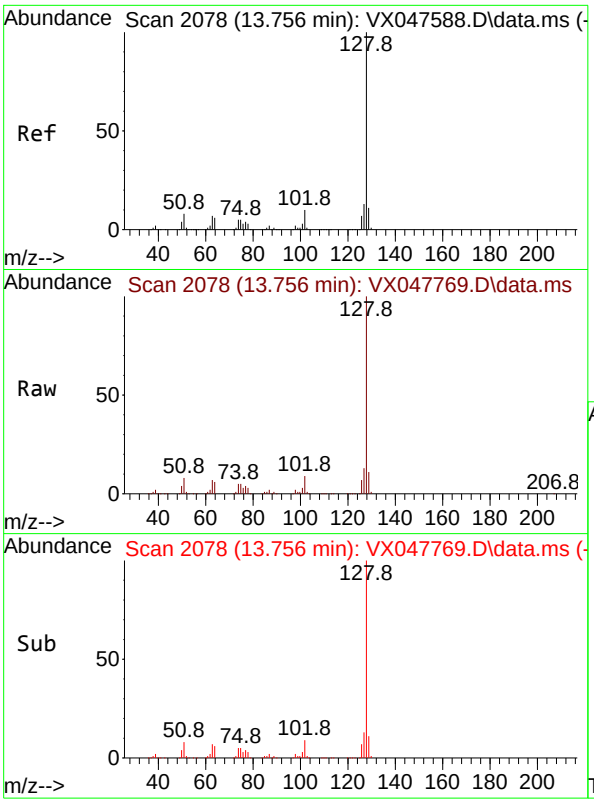


#94
Hexachlorobutadiene
Concen: 46.267 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:225 Resp: 38612

Ion	Ratio	Lower	Upper
225	100		
223	65.5	31.7	95.1
227	62.6	32.0	96.0



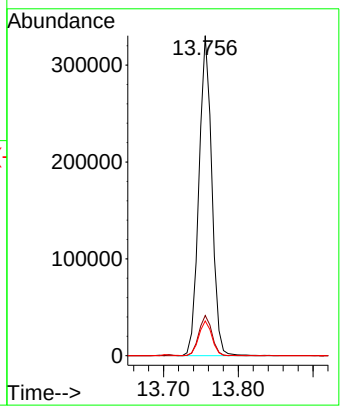


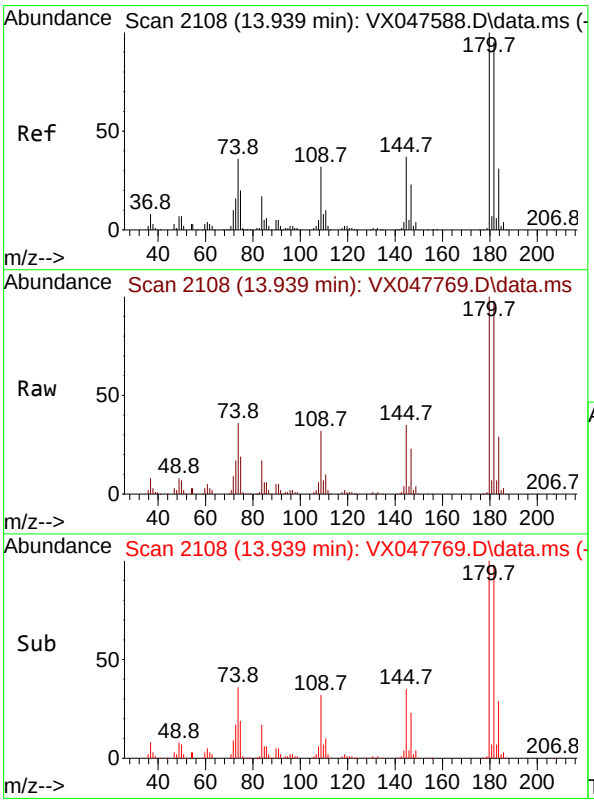
#95
Naphthalene
Concen: 52.855 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 395438

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.0	8.8	13.2

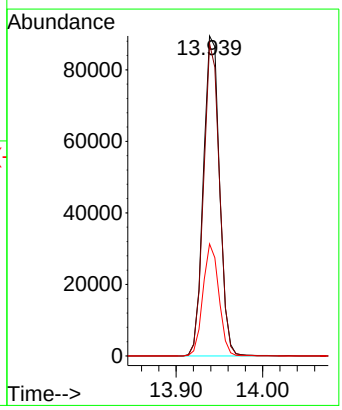




#96
1,2,3-Trichlorobenzene
Concen: 50.922 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047769.D
Acq: 24 Sep 2025 11:46

Tgt Ion:180 Resp: 116383

Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.6	142.8
145	34.4	17.9	53.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047772.D
Acq On : 24 Sep 2025 13:59
Operator : JC/MD
Sample : VX0924WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Quant Time: Sep 25 01:13:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	160966	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	287921	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	264714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	129236	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	135679	52.955	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.900%			
35) Dibromofluoromethane	5.367	113	107014	55.420	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.840%			
50) Toluene-d8	8.629	98	365795	54.748	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 109.500%			
62) 4-Bromofluorobenzene	11.061	95	141293	55.720	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	35092	21.053	ug/l	100
3) Chloromethane	1.301	50	43274	19.754	ug/l	99
4) Vinyl Chloride	1.380	62	43176	20.134	ug/l	97
5) Bromomethane	1.618	94	29555	21.735	ug/l	97
6) Chloroethane	1.697	64	28179	19.661	ug/l	97
7) Trichlorofluoromethane	1.898	101	60839	19.107	ug/l	95
8) Diethyl Ether	2.136	74	26212	20.125	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	37011	19.879	ug/l	98
10) Methyl Iodide	2.453	142	53711	18.498	ug/l	99
11) Tert butyl alcohol	2.941	59	25420	89.081	ug/l	99
12) 1,1-Dichloroethene	2.325	96	37164	19.433	ug/l	96
13) Acrolein	2.233	56	22946	87.260	ug/l	99
14) Allyl chloride	2.666	41	73616	18.654	ug/l	97
15) Acrylonitrile	3.056	53	110803	104.829	ug/l	98
16) Acetone	2.374	43	105276	94.499	ug/l	97
17) Carbon Disulfide	2.514	76	103479	19.765	ug/l	99
18) Methyl Acetate	2.697	43	51214	20.657	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	136607	19.568	ug/l	97
20) Methylene Chloride	2.788	84	47324	20.068	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	41747	20.276	ug/l	92
22) Diisopropyl ether	3.751	45	153137	20.023	ug/l	98
23) Vinyl Acetate	3.709	43	604927	98.825	ug/l	100
24) 1,1-Dichloroethane	3.599	63	79300	19.508	ug/l	98
25) 2-Butanone	4.538	43	141867	102.090	ug/l	100
26) 2,2-Dichloropropane	4.465	77	63397	18.761	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	50441	20.004	ug/l	98
28) Bromochloromethane	4.879	49	37245	20.987	ug/l	98
29) Tetrahydrofuran	4.989	42	83194	99.518	ug/l	99
30) Chloroform	5.074	83	82364	20.050	ug/l	100
31) Cyclohexane	5.452	56	64054	18.919	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	68180	19.567	ug/l	99
36) 1,1-Dichloropropene	5.678	75	52624	18.651	ug/l	98
37) Ethyl Acetate	4.690	43	59383	19.656	ug/l	98
38) Carbon Tetrachloride	5.660	117	56770	18.518	ug/l	96
39) Methylcyclohexane	7.367	83	58835	18.369	ug/l	97
40) Benzene	6.025	78	171230	19.980	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047772.D
Acq On : 24 Sep 2025 13:59
Operator : JC/MD
Sample : VX0924WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Quant Time: Sep 25 01:13:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	30851	19.781	ug/l		96
42) 1,2-Dichloroethane	6.068	62	62217	19.081	ug/l		99
43) Isopropyl Acetate	6.318	43	96880	19.553	ug/l		99
44) Trichloroethene	7.104	130	41002	19.790	ug/l		98
45) 1,2-Dichloropropane	7.415	63	43710	19.919	ug/l		97
46) Dibromomethane	7.562	93	31385	19.654	ug/l		95
47) Bromodichloromethane	7.805	83	64722	19.641	ug/l		99
48) Methyl methacrylate	7.677	41	48200	19.530	ug/l		98
49) 1,4-Dioxane	7.647	88	11736	470.527	ug/l		97
51) 4-Methyl-2-Pentanone	8.555	43	289193	105.270	ug/l		99
52) Toluene	8.702	92	104564	19.804	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	63962	19.030	ug/l		99
54) cis-1,3-Dichloropropene	8.348	75	70664	19.669	ug/l		98
55) 1,1,2-Trichloroethane	9.134	97	42278	20.766	ug/l		98
56) Ethyl methacrylate	9.098	69	62475	19.540	ug/l		98
57) 1,3-Dichloropropane	9.293	76	73306	20.961	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	144993	101.954	ug/l		99
59) 2-Hexanone	9.415	43	202304	102.535	ug/l		99
60) Dibromochloromethane	9.506	129	47122	20.088	ug/l		99
61) 1,2-Dibromoethane	9.592	107	44045	21.240	ug/l		100
64) Tetrachloroethene	9.256	164	32977	19.110	ug/l		98
65) Chlorobenzene	10.061	112	118026	19.626	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.147	131	40597	19.563	ug/l		99
67) Ethyl Benzene	10.177	91	197704	19.053	ug/l		99
68) m/p-Xylenes	10.287	106	148875	38.547	ug/l		99
69) o-Xylene	10.622	106	72324	19.361	ug/l		98
70) Styrene	10.634	104	126494	19.325	ug/l		98
71) Bromoform	10.781	173	30430	19.638	ug/l	#	96
73) Isopropylbenzene	10.945	105	183812	18.708	ug/l		99
74) N-amyl acetate	10.829	43	84398	18.837	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	60136	20.230	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	62995	24.075	ug/l		90
77) Bromobenzene	11.183	156	47200	19.505	ug/l		97
78) n-propylbenzene	11.287	91	219305	18.882	ug/l		100
79) 2-Chlorotoluene	11.348	91	133694	18.794	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	152588	18.903	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.000	75	17467	17.023	ug/l		94
82) 4-Chlorotoluene	11.439	91	159461	18.979	ug/l		99
83) tert-Butylbenzene	11.695	119	150008	18.153	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	155933	19.053	ug/l		98
85) sec-Butylbenzene	11.872	105	184409	18.788	ug/l		100
86) p-Isopropyltoluene	11.988	119	155061	18.660	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	86052	19.145	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	86839	18.824	ug/l		97
89) n-Butylbenzene	12.311	91	143536	18.668	ug/l		98
90) Hexachloroethane	12.518	117	26384	18.084	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	83853	19.582	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	11106	18.453	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	52549	18.882	ug/l		98
94) Hexachlorobutadiene	13.707	225	17306	18.307	ug/l		99
95) Naphthalene	13.756	128	156255	18.438	ug/l		99
96) 1,2,3-Trichlorobenzene	13.939	180	49161	18.990	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047772.D
Acq On : 24 Sep 2025 13:59
Operator : JC/MD
Sample : VX0924WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Quant Time: Sep 25 01:13:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

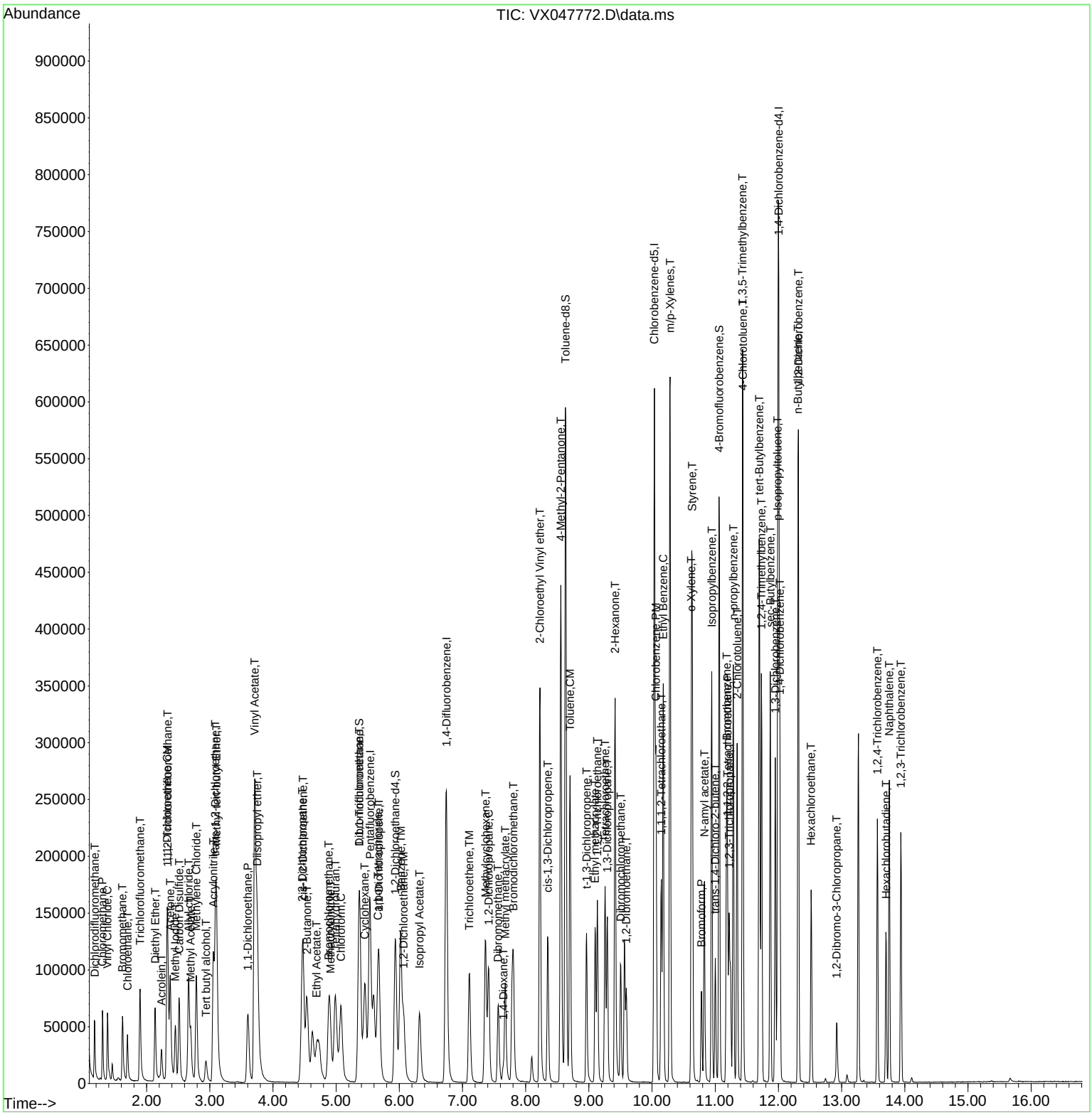
(#) = qualifier out of range (m) = manual integration (+) = signals summed

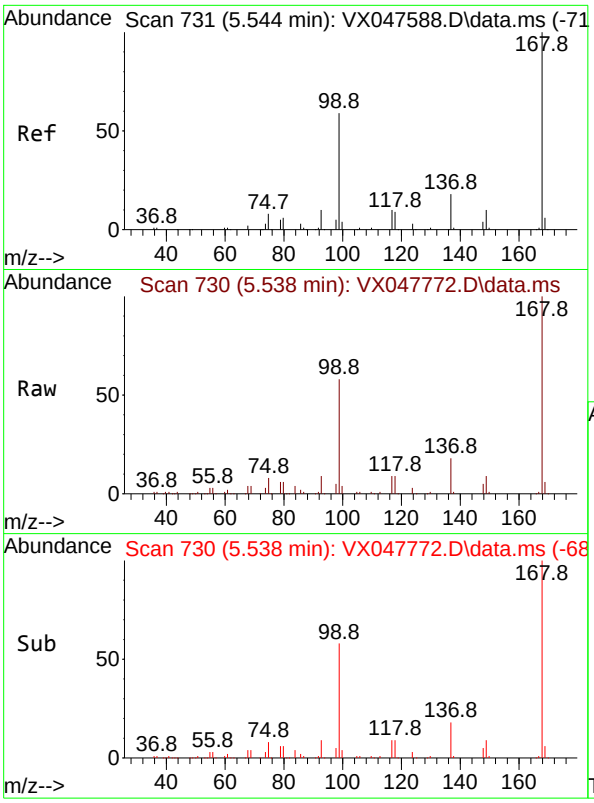
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092425\
Data File : VX047772.D
Acq On : 24 Sep 2025 13:59
Operator : JC/MD
Sample : VX0924WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Quant Time: Sep 25 01:13:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



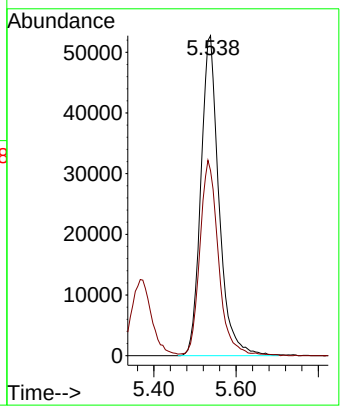


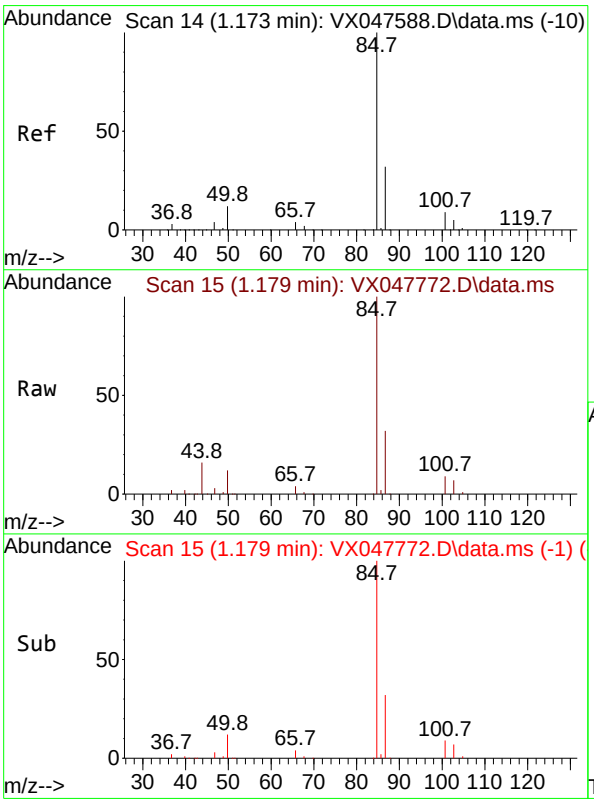
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:168 Resp: 160966

Ion	Ratio	Lower	Upper
168	100		
99	57.6	48.8	73.2

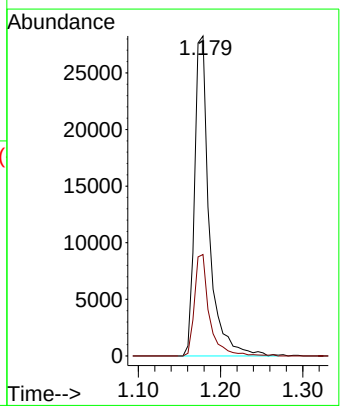


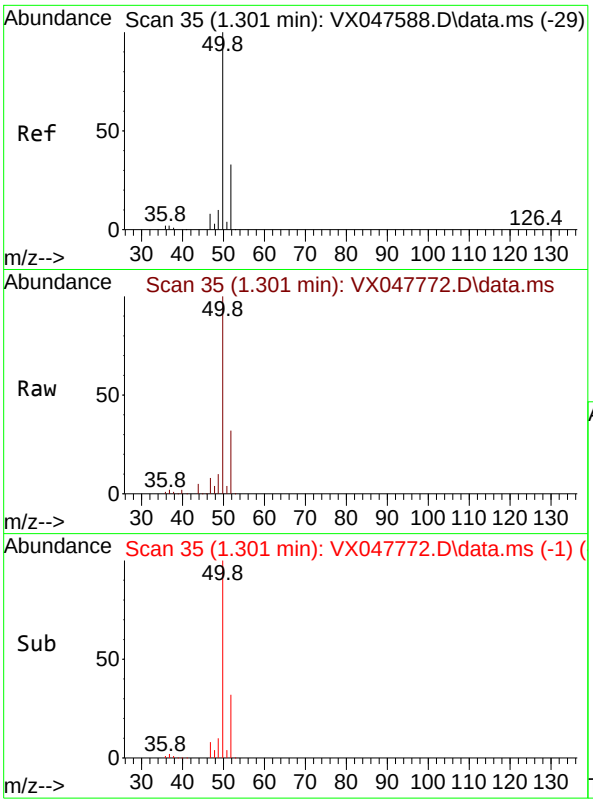


#2
Dichlorodifluoromethane
Concen: 21.053 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 85 Resp: 35092

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3



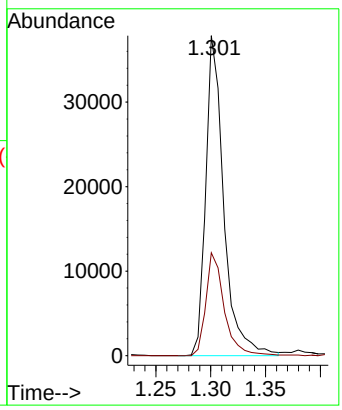


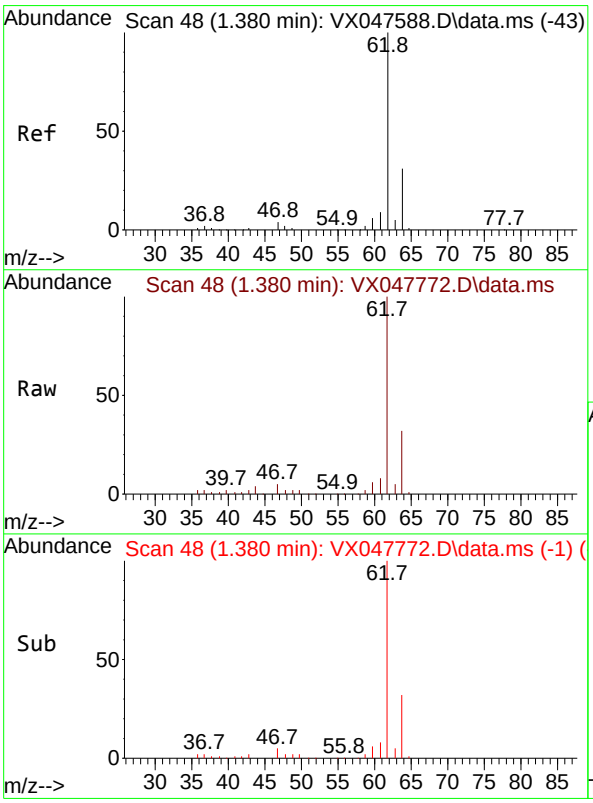
#3
Chloromethane
Concen: 19.754 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 50 Resp: 43274

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1

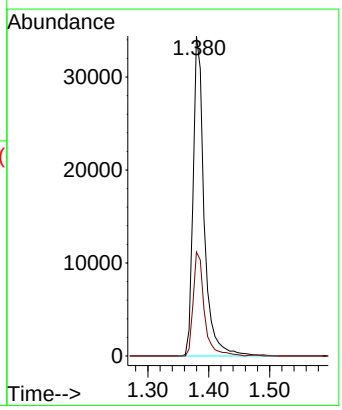


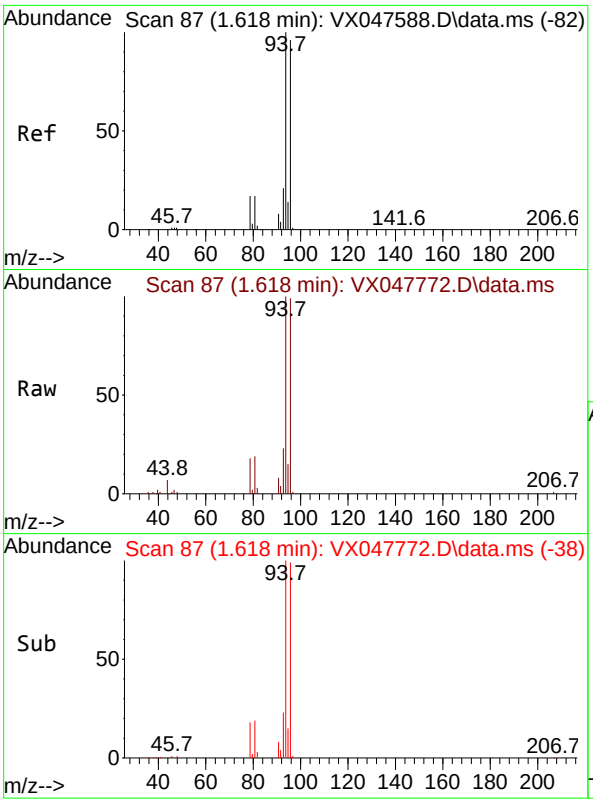


#4
Vinyl Chloride
Concen: 20.134 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 62 Resp: 43176

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.9	37.3



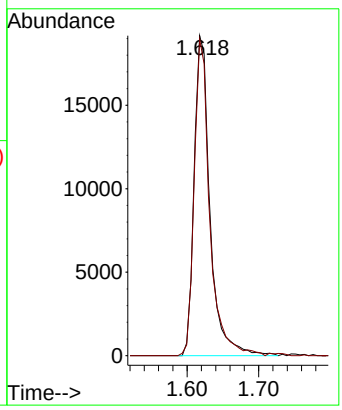


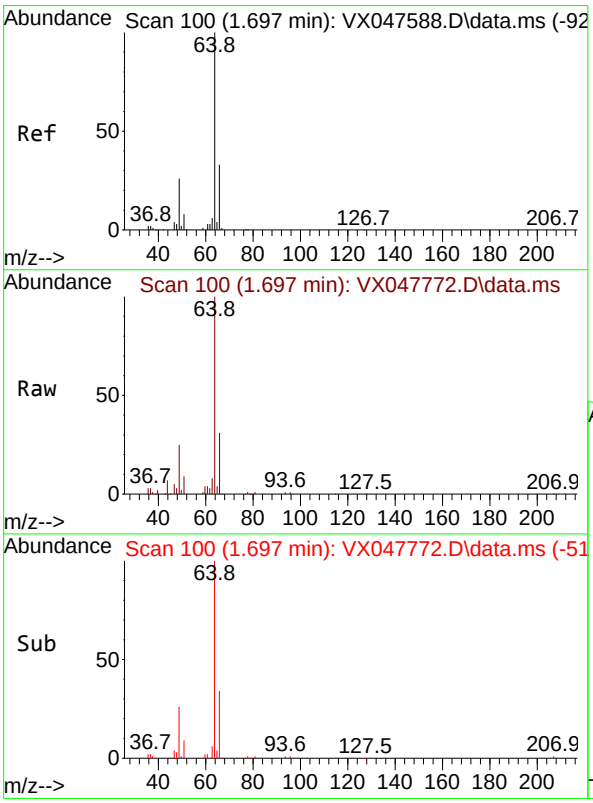
#5
Bromomethane
Concen: 21.735 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 94 Resp: 29555

Ion	Ratio	Lower	Upper
94	100		
96	98.9	76.6	115.0

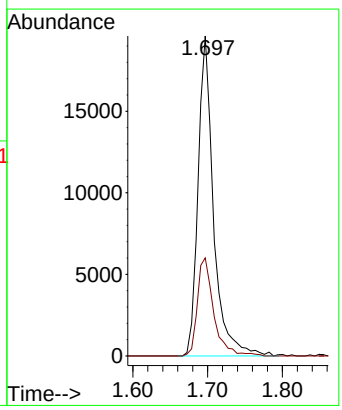


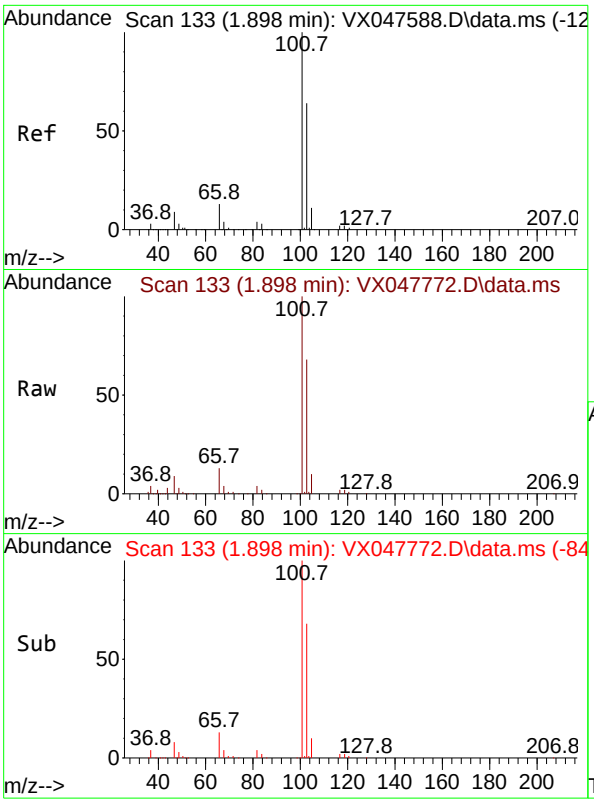


#6
Chloroethane
Concen: 19.661 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 64 Resp: 28179

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.1	39.1



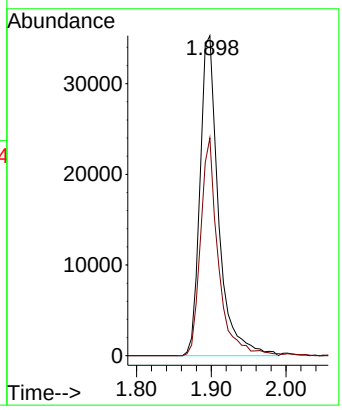


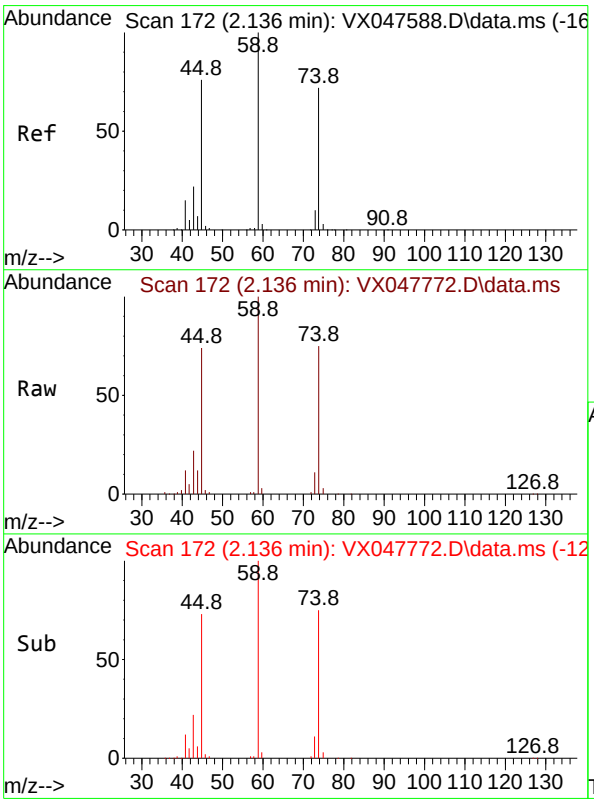
#7
Trichlorofluoromethane
Concen: 19.107 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:101 Resp: 60839

Ion	Ratio	Lower	Upper
101	100		
103	68.0	51.4	77.2

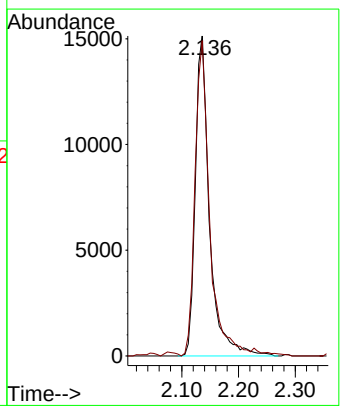


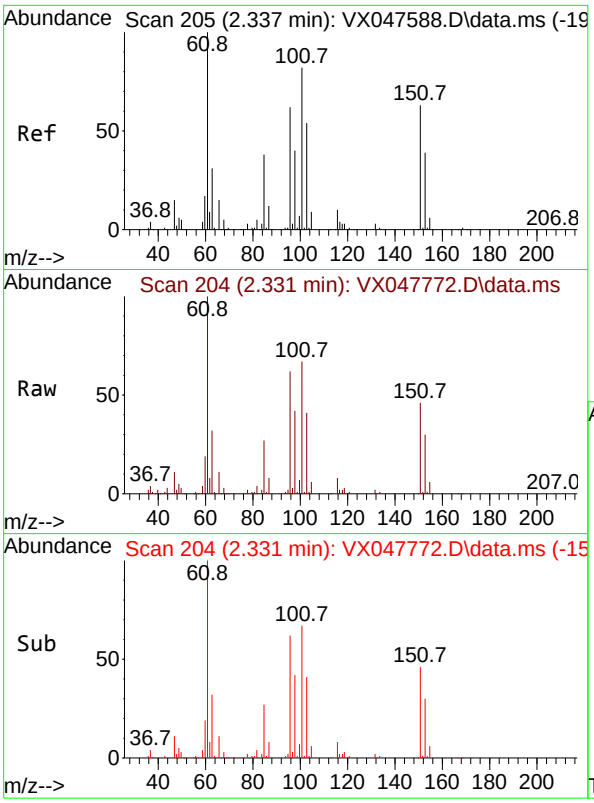


#8
Diethyl Ether
Concen: 20.125 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 74 Resp: 26212

Ion	Ratio	Lower	Upper
74	100		
45	101.5	52.3	156.8



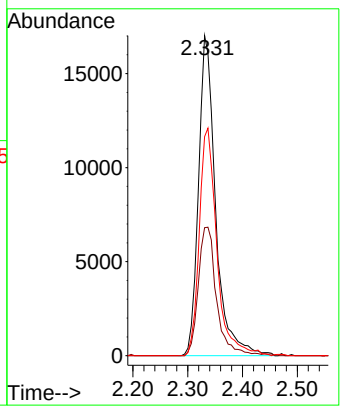


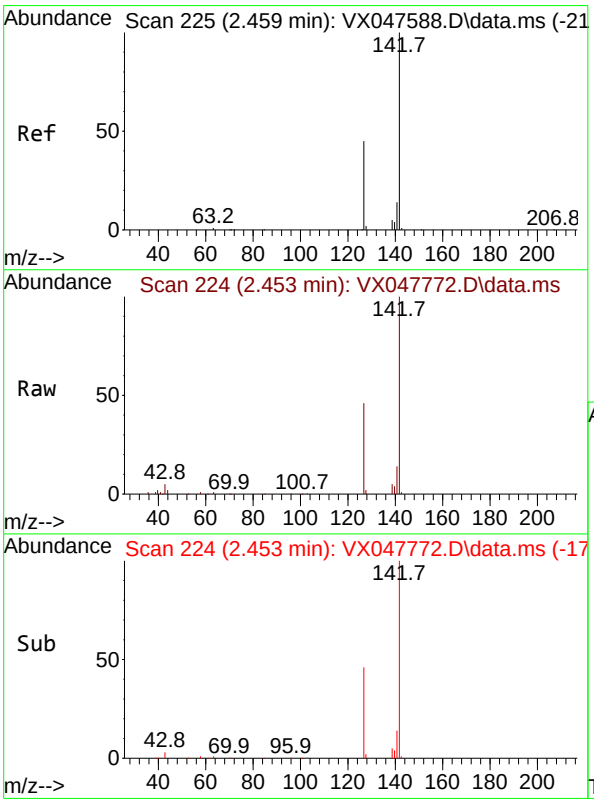
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.879 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:101 Resp: 37011

Ion	Ratio	Lower	Upper
101	100		
85	42.6	35.5	53.3
151	73.0	59.4	89.0

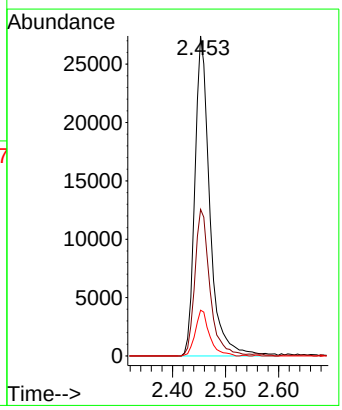


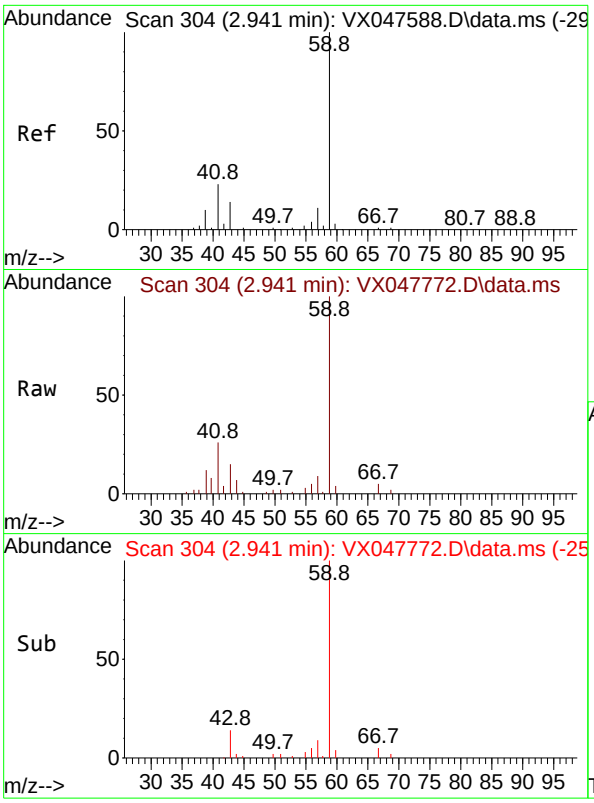


#10
Methyl Iodide
Concen: 18.498 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:142 Resp: 53711

Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.2	55.8
141	13.7	11.4	17.0



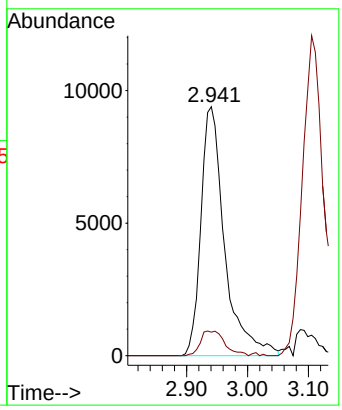


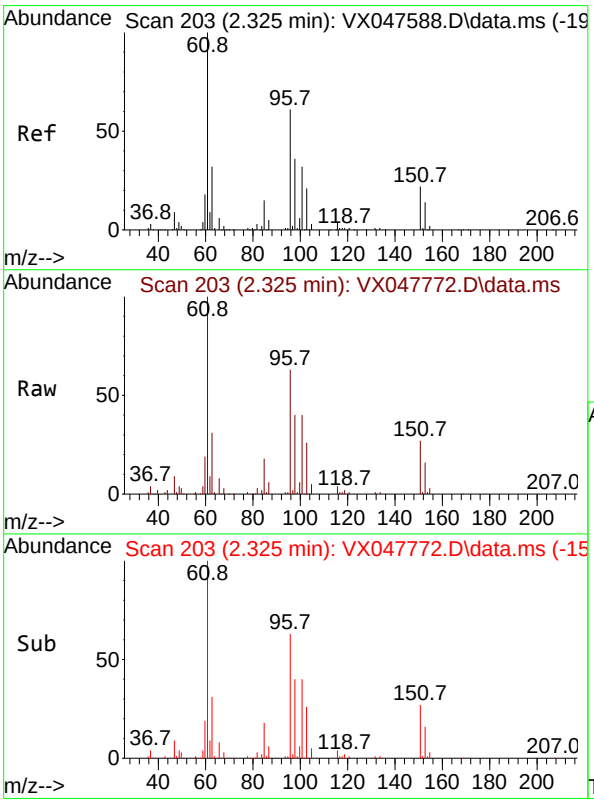
#11
Tert butyl alcohol
Concen: 89.081 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 59 Resp: 25420

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5

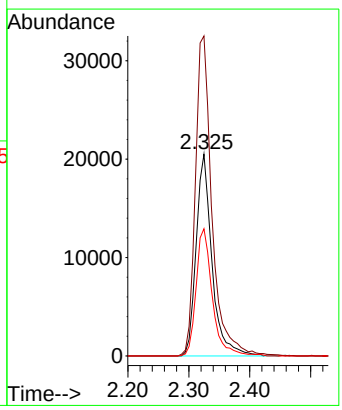


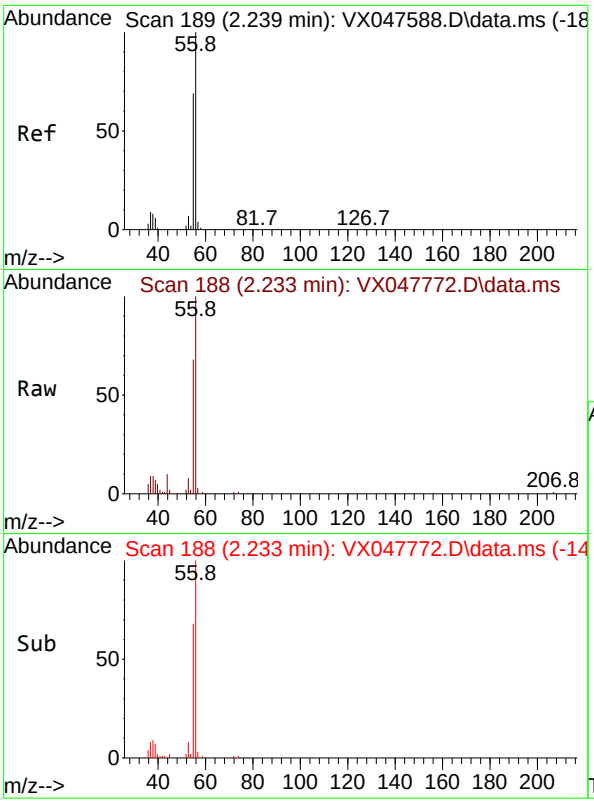


#12
1,1-Dichloroethene
Concen: 19.433 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 96 Resp: 37164

Ion	Ratio	Lower	Upper
96	100		
61	158.5	131.0	196.6
98	63.0	47.7	71.5



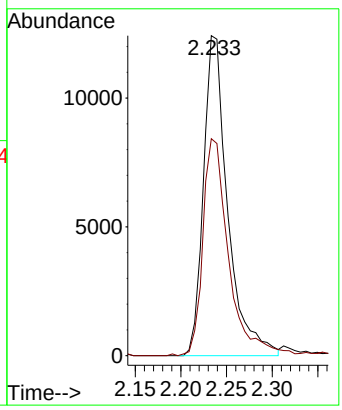


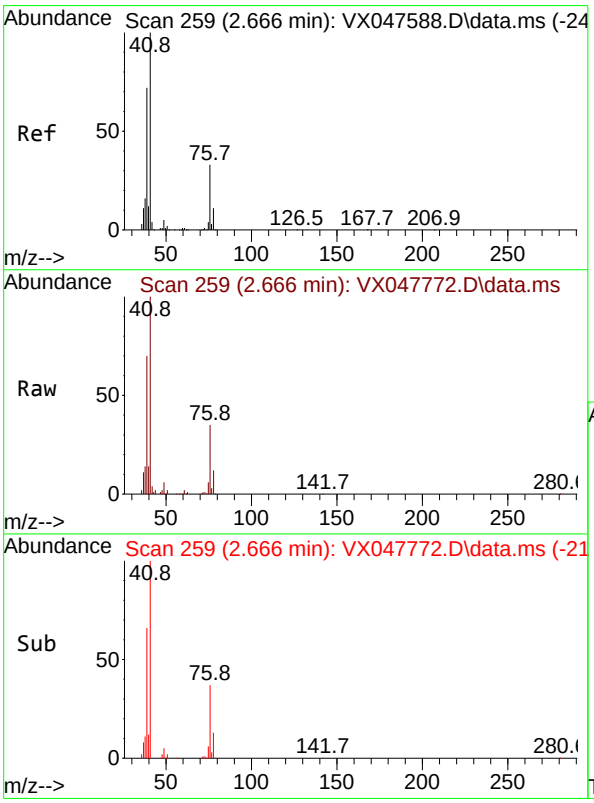
#13
Acrolein
Concen: 87.260 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 56 Resp: 22946

Ion	Ratio	Lower	Upper
56	100		
55	72.2	57.2	85.8

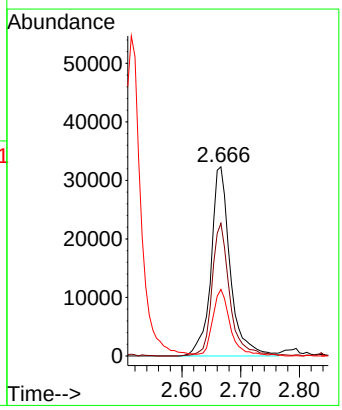


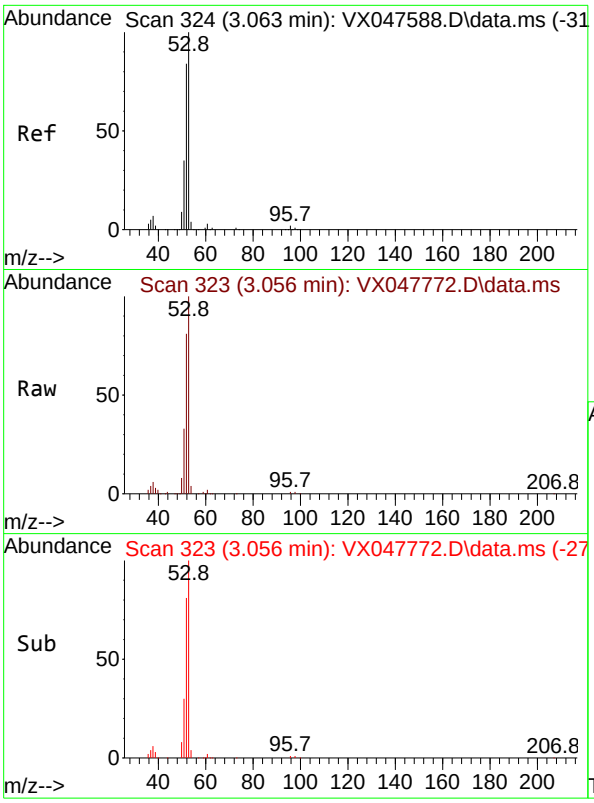


#14
Allyl chloride
Concen: 18.654 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 41 Resp: 73616

Ion	Ratio	Lower	Upper
41	100		
39	64.8	54.7	82.1
76	32.5	25.7	38.5



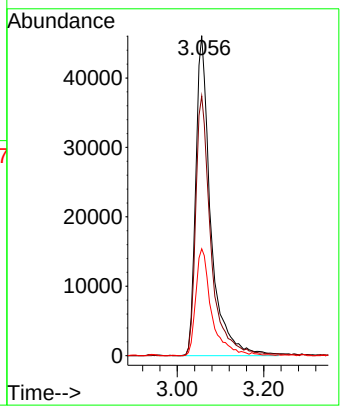


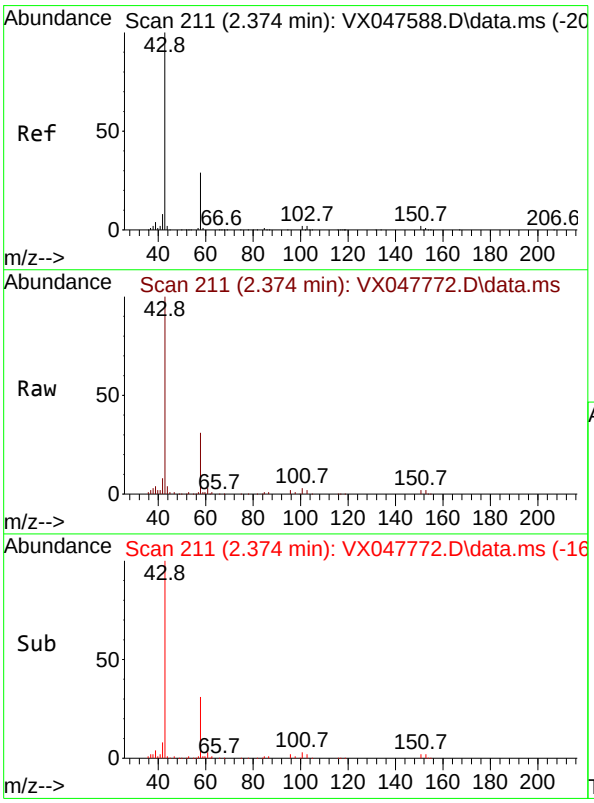
#15
Acrylonitrile
Concen: 104.829 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 53 Resp: 110803

Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.4	99.6
51	34.9	29.5	44.3

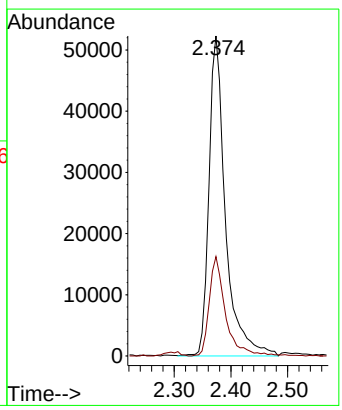


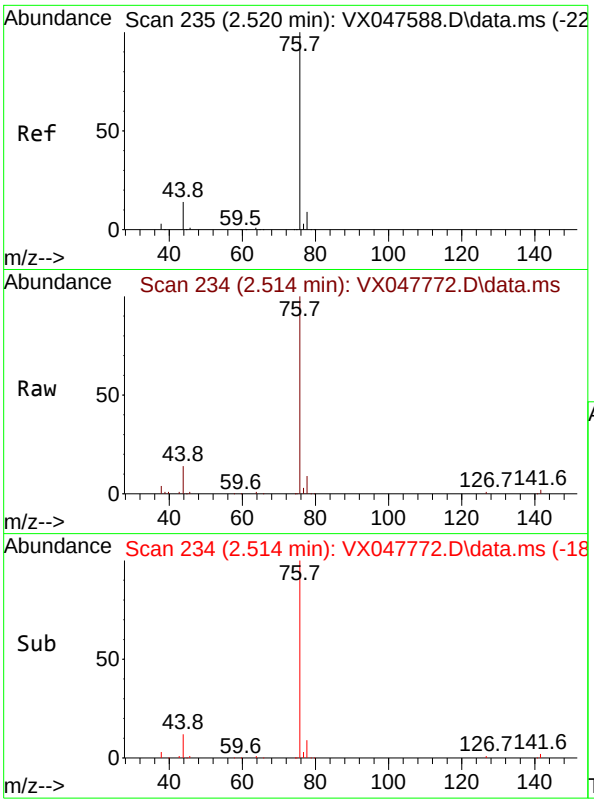


#16
Acetone
Concen: 94.499 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 105276

Ion	Ratio	Lower	Upper
43	100		
58	30.7	23.4	35.0



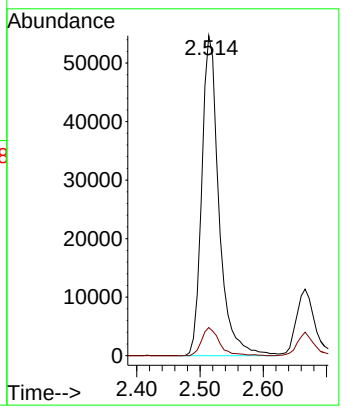


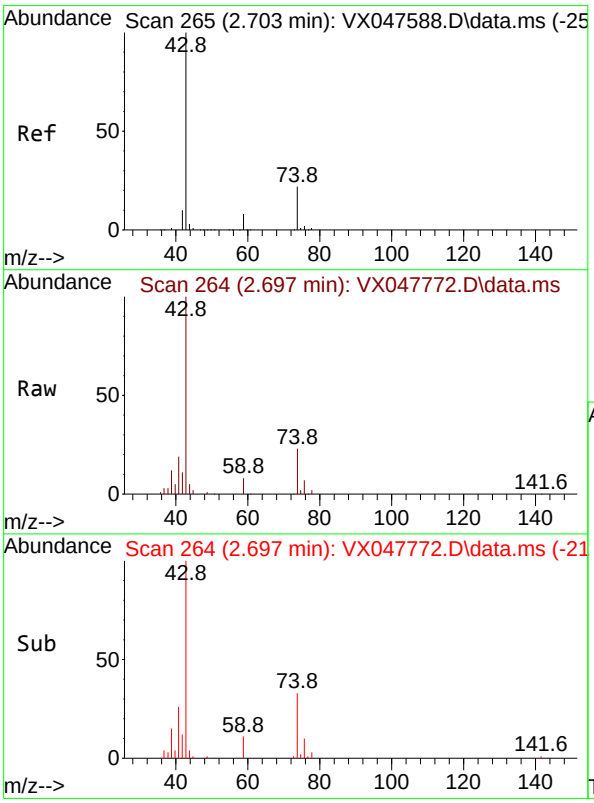
#17
Carbon Disulfide
Concen: 19.765 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 76 Resp: 103479

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2

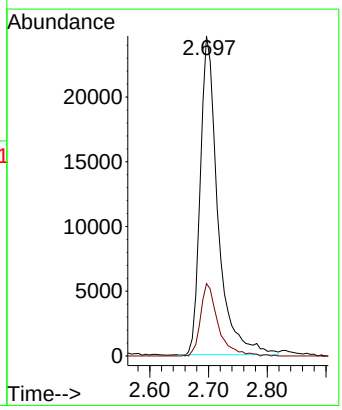


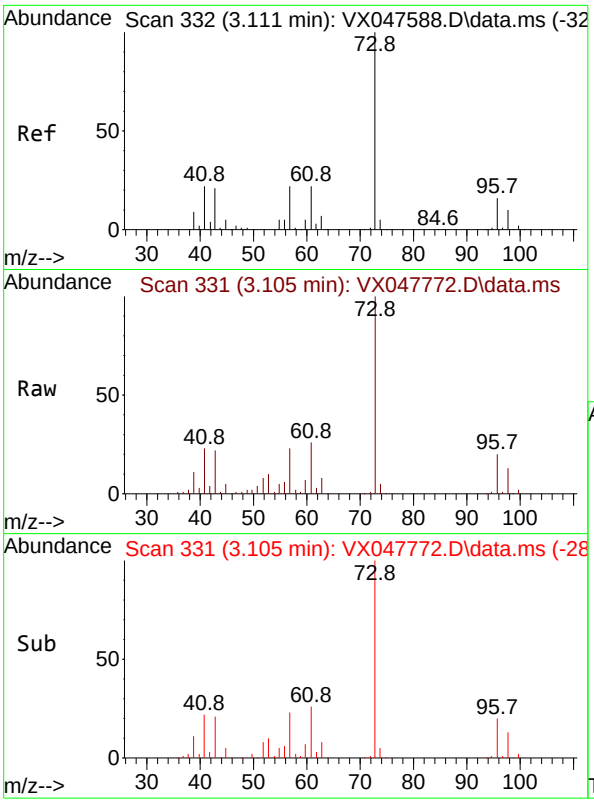


#18
Methyl Acetate
Concen: 20.657 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 51214

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.4	26.2



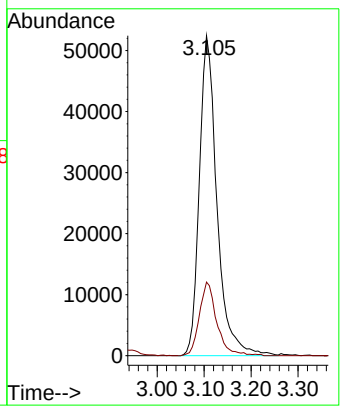


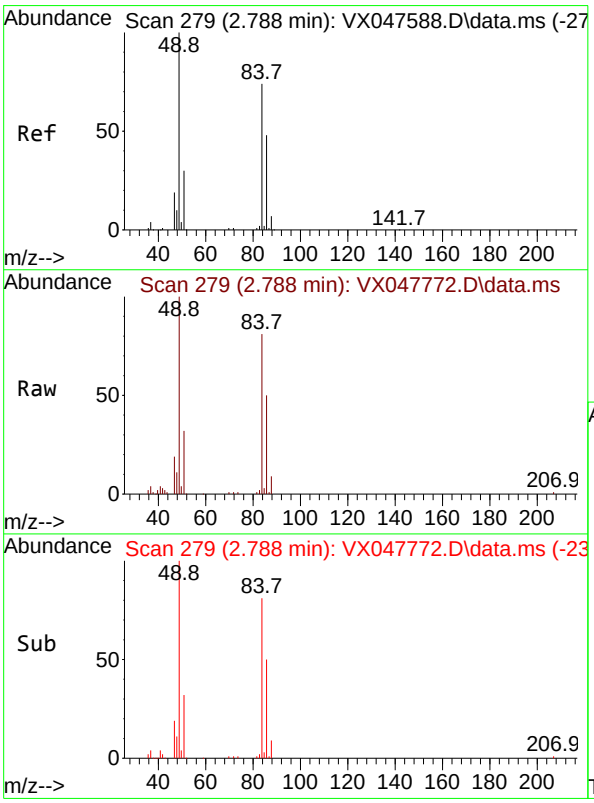
#19
Methyl tert-butyl Ether
Concen: 19.568 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 73 Resp: 136607

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.4	26.2

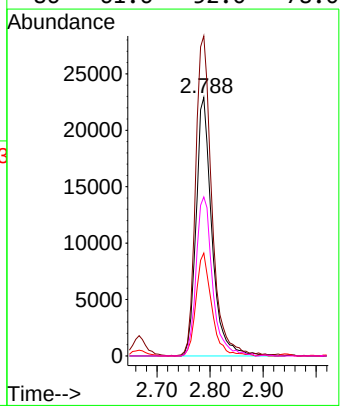


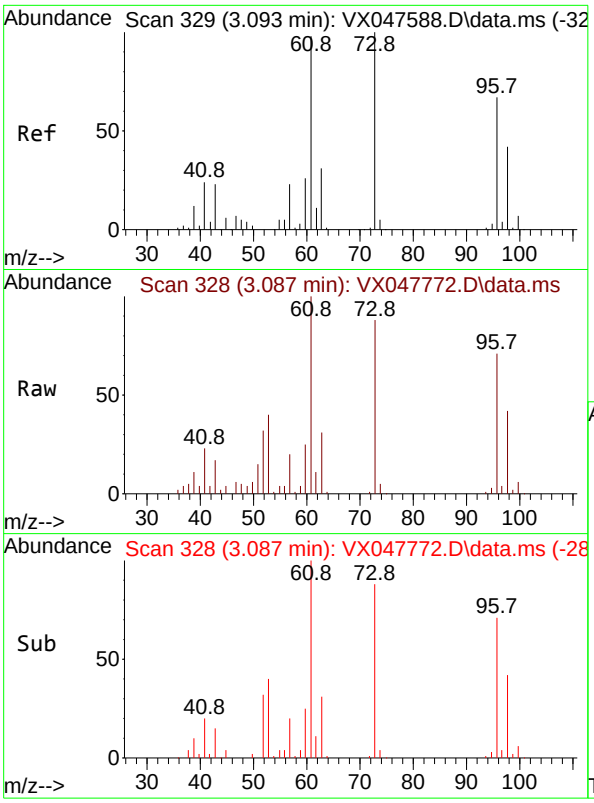


#20
Methylene Chloride
Concen: 20.068 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 84 Resp: 47324

Ion	Ratio	Lower	Upper
84	100		
49	123.6	108.6	162.8
51	39.8	32.6	48.8
86	61.6	52.0	78.0



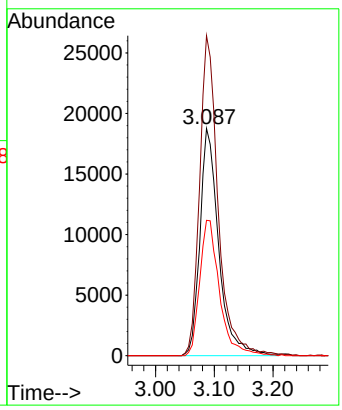


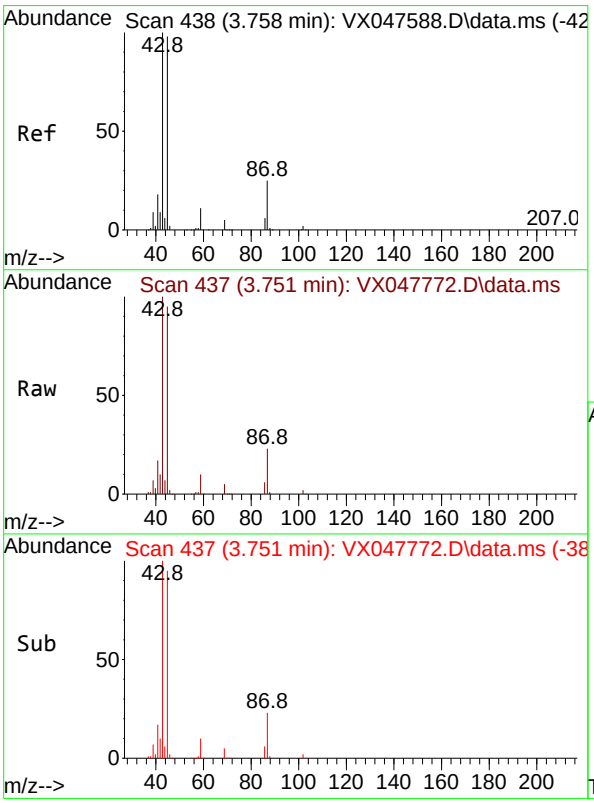
#21
trans-1,2-Dichloroethene
Concen: 20.276 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 96 Resp: 41747

Ion	Ratio	Lower	Upper
96	100		
61	134.2	116.2	174.2
98	56.8	49.3	73.9

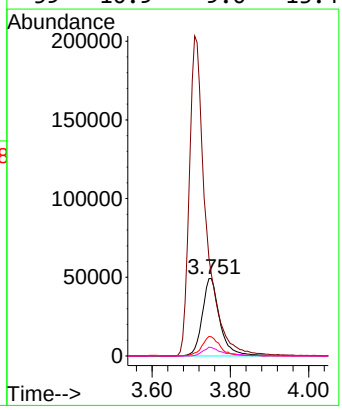


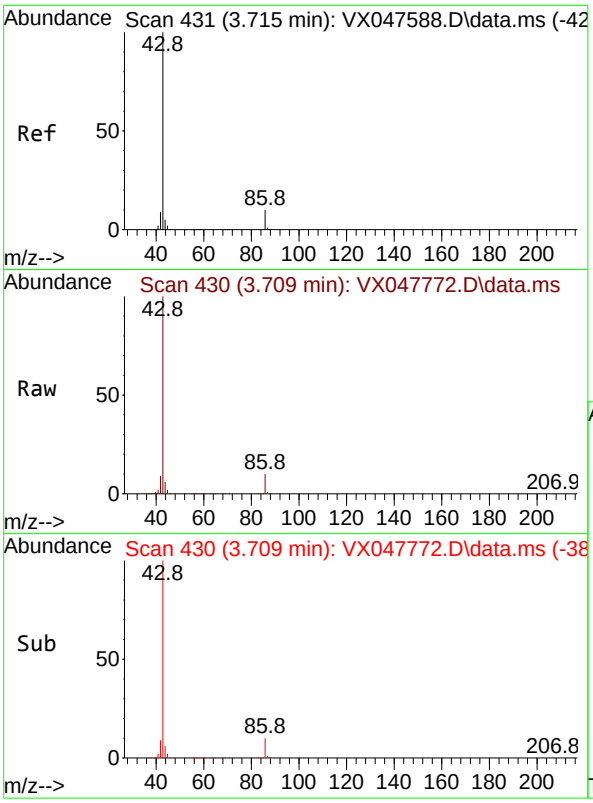


#22
Diisopropyl ether
Concen: 20.023 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 45 Resp: 153137

Ion	Ratio	Lower	Upper
45	100		
43	103.9	81.0	121.4
87	24.8	20.3	30.5
59	10.9	9.0	13.4



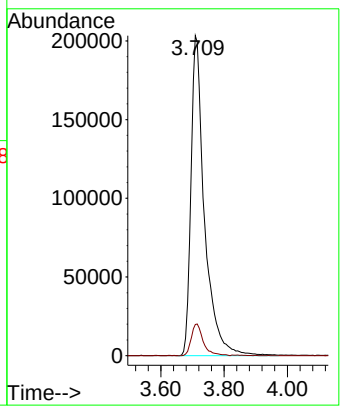


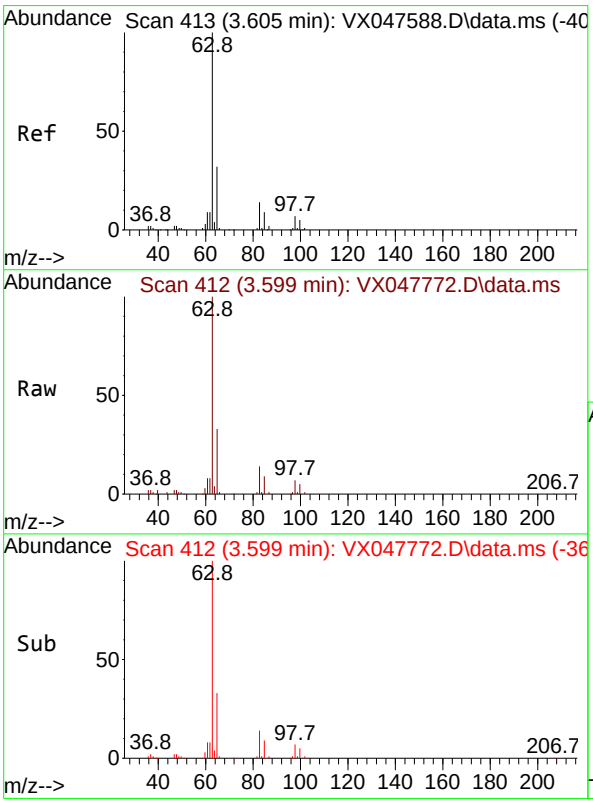
#23
Vinyl Acetate
Concen: 98.825 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 43 Resp: 604927

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8

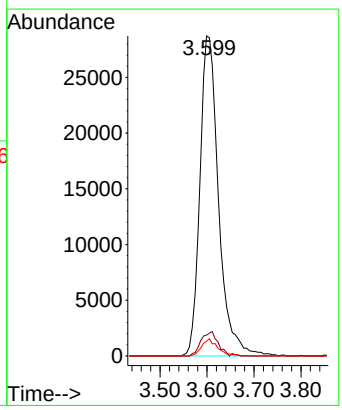


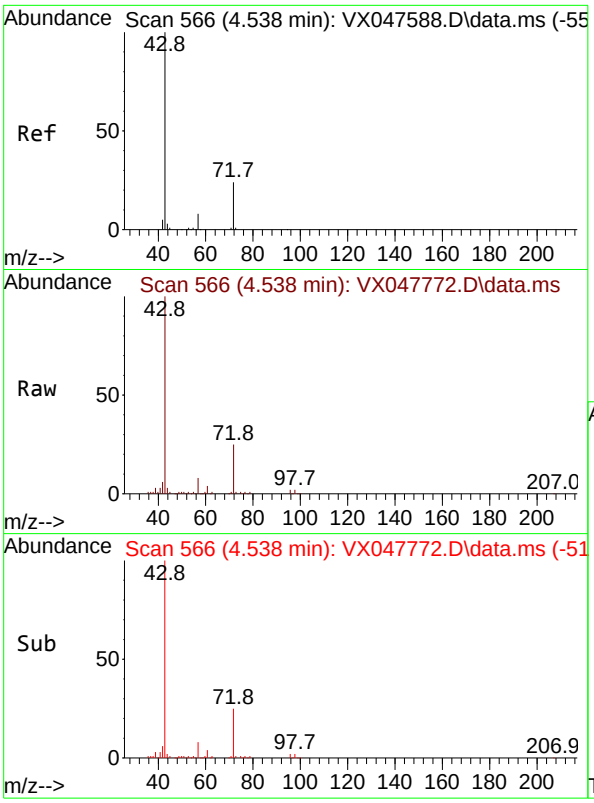


#24
1,1-Dichloroethane
Concen: 19.508 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 63 Resp: 79300

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.8	11.2
100	4.6	2.3	6.9



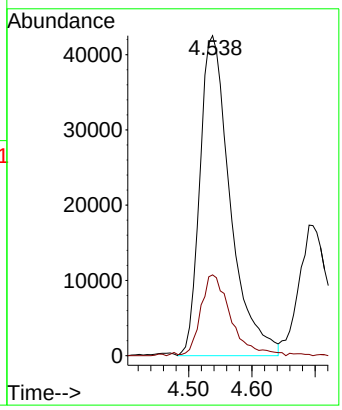


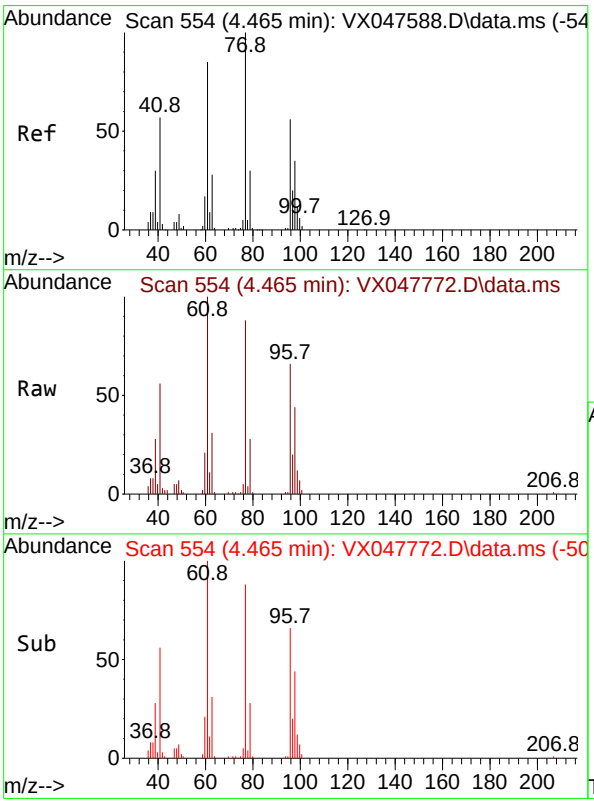
#25
2-Butanone
Concen: 102.090 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 43 Resp: 141867

Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.1	30.1

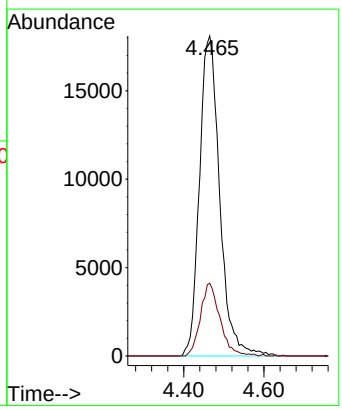


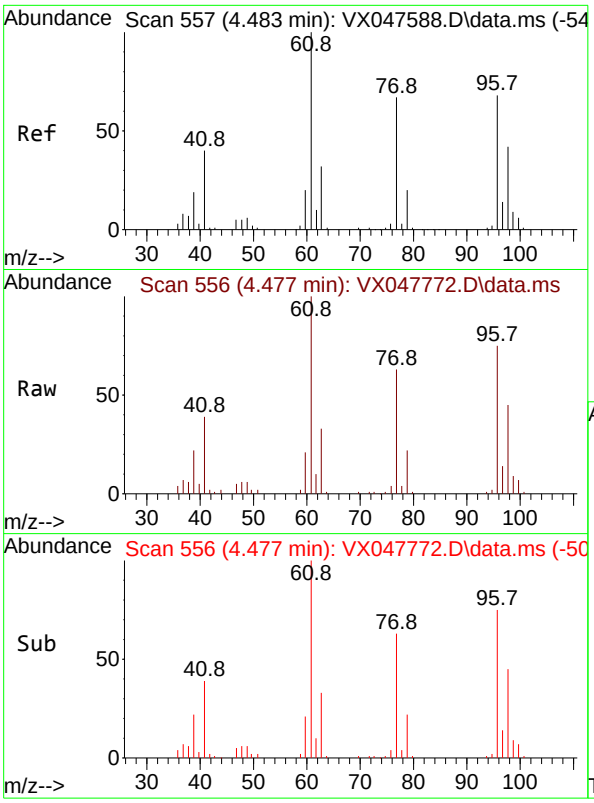


#26
2,2-Dichloropropane
Concen: 18.761 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 77 Resp: 63397

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.9	32.7



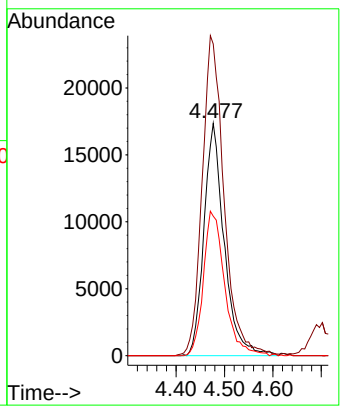


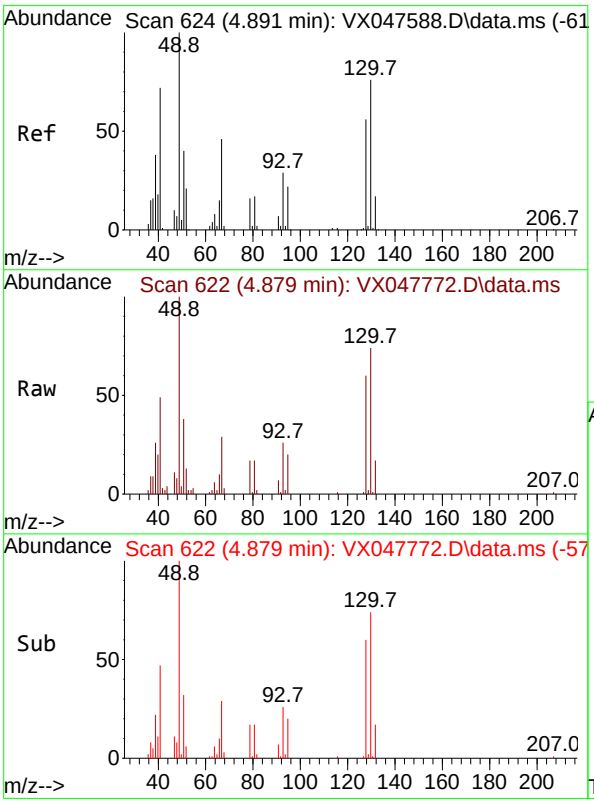
#27
cis-1,2-Dichloroethene
Concen: 20.004 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 96 Resp: 50441

Ion	Ratio	Lower	Upper
96	100		
61	148.8	0.0	303.2
98	65.3	0.0	127.8

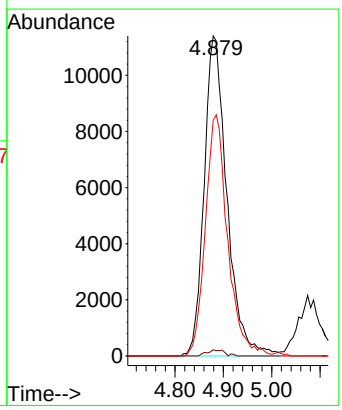


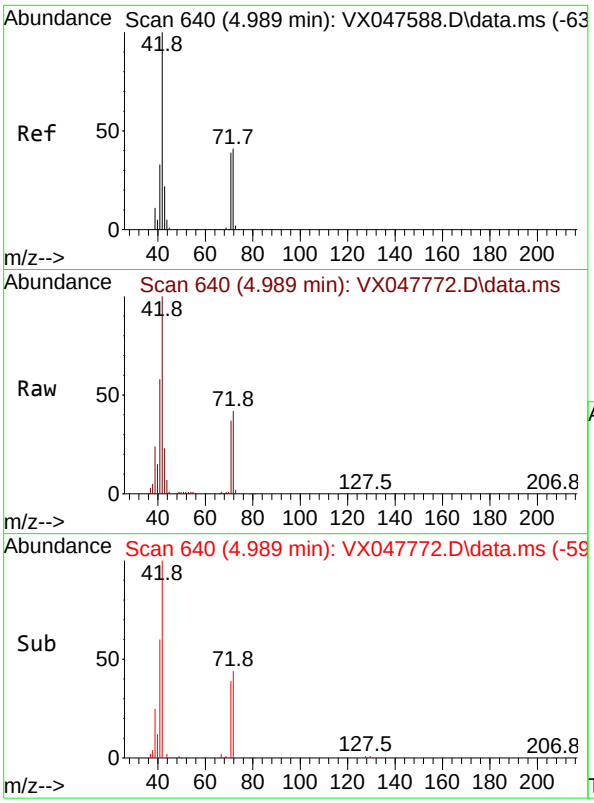


#28
Bromochloromethane
Concen: 20.987 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 49 Resp: 37245

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.2
130	73.7	57.8	86.8



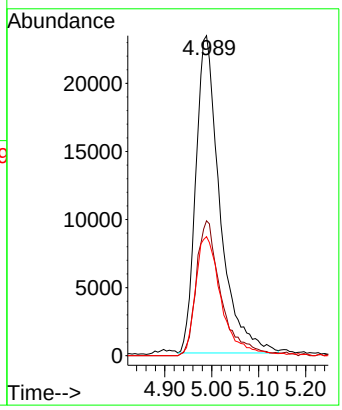


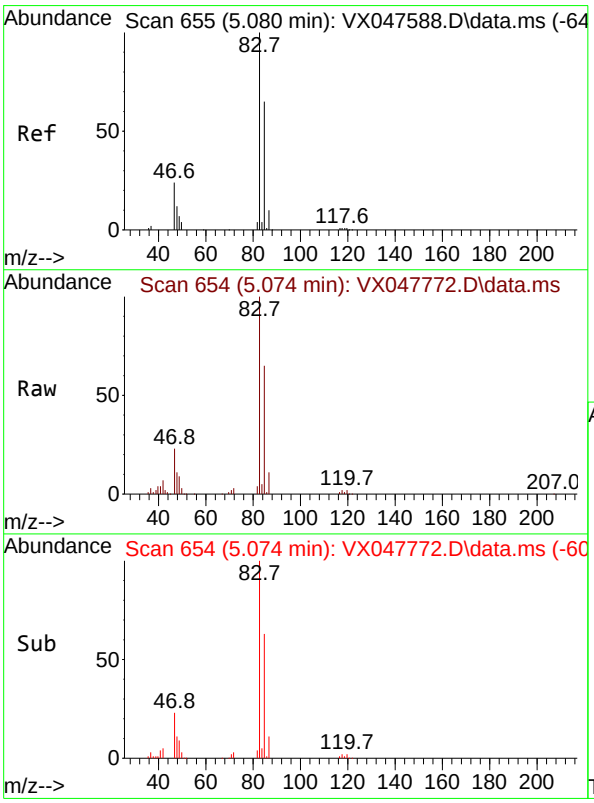
#29
Tetrahydrofuran
Concen: 99.518 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 42 Resp: 83194

Ion	Ratio	Lower	Upper
42	100		
72	43.6	34.2	51.2
71	40.3	31.9	47.9

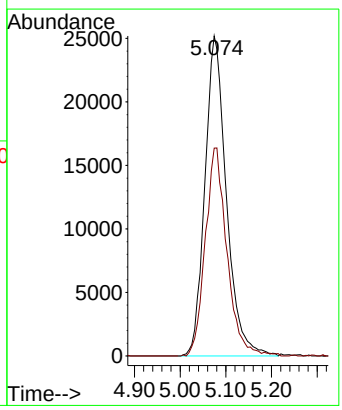


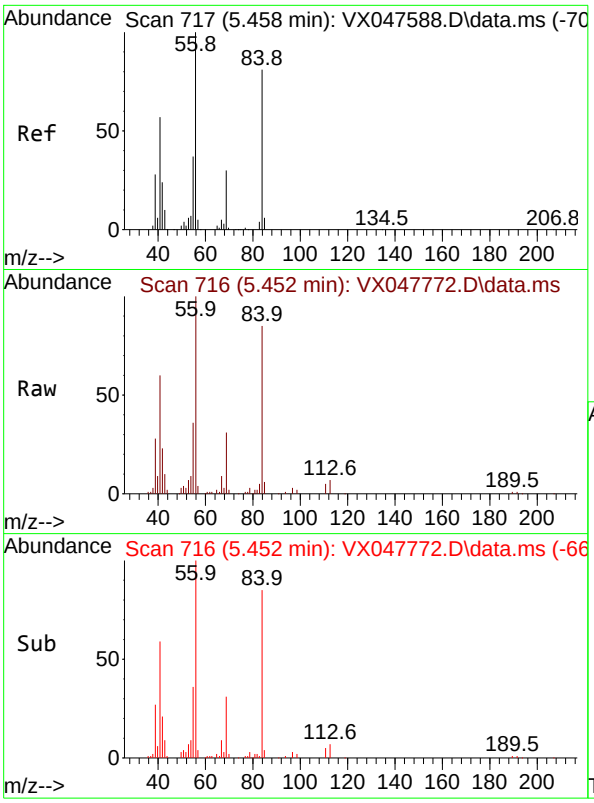


#30
Chloroform
Concen: 20.050 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 83 Resp: 82364

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.8	77.6



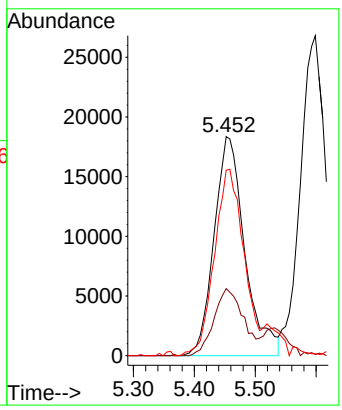


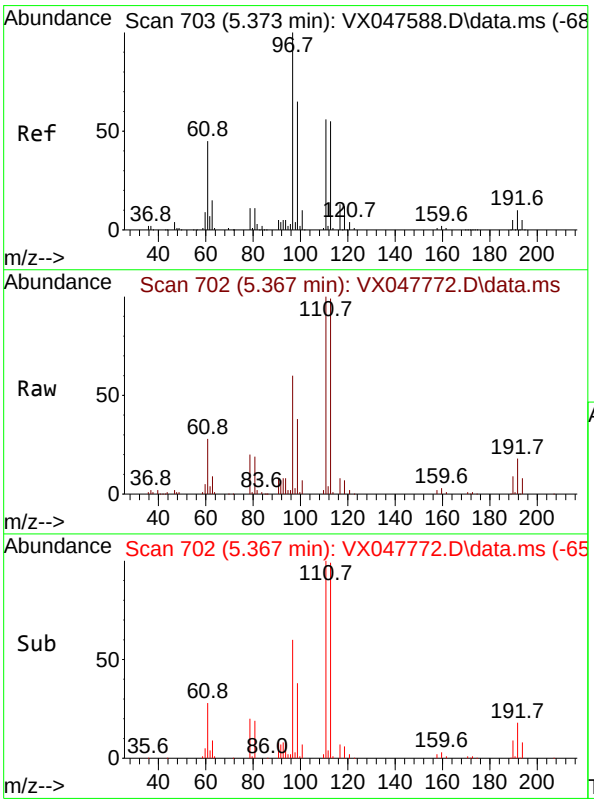
#31
Cyclohexane
Concen: 18.919 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 56 Resp: 64054

Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.8	35.8
84	84.7	64.6	97.0

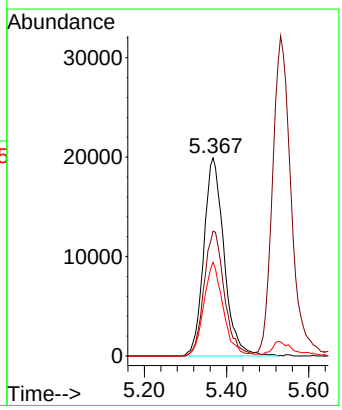


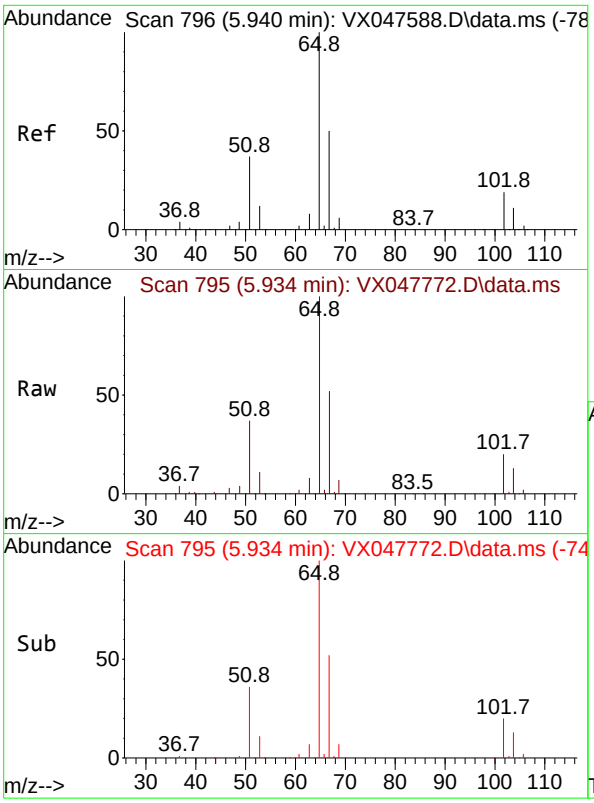


#32
1,1,1-Trichloroethane
Concen: 19.567 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 97 Resp: 68180

Ion	Ratio	Lower	Upper
97	100		
99	63.1	50.6	76.0
61	45.5	35.8	53.8



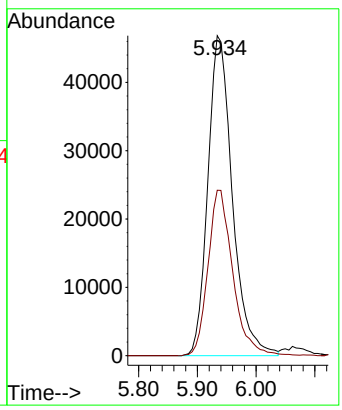


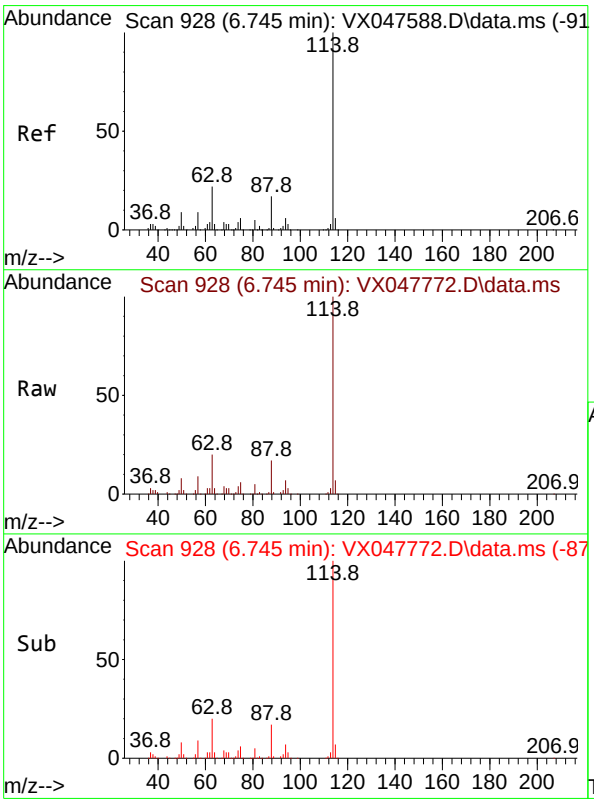
#33
1,2-Dichloroethane-d4
Concen: 52.955 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 65 Resp: 135679

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0

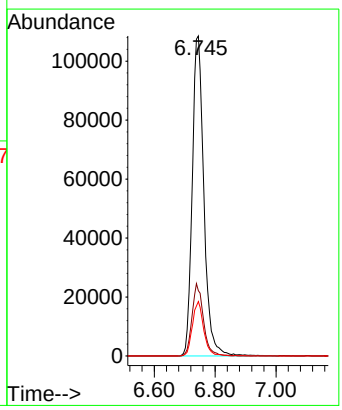


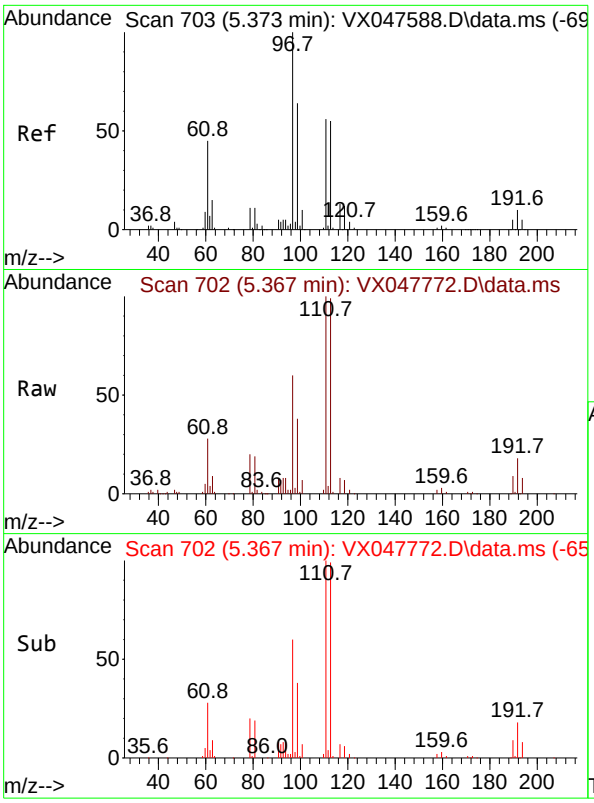


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:114 Resp: 287921

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	44.0
88	17.0	0.0	34.2



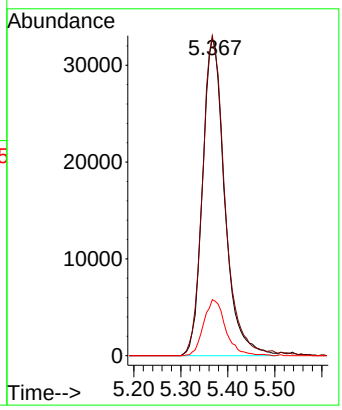


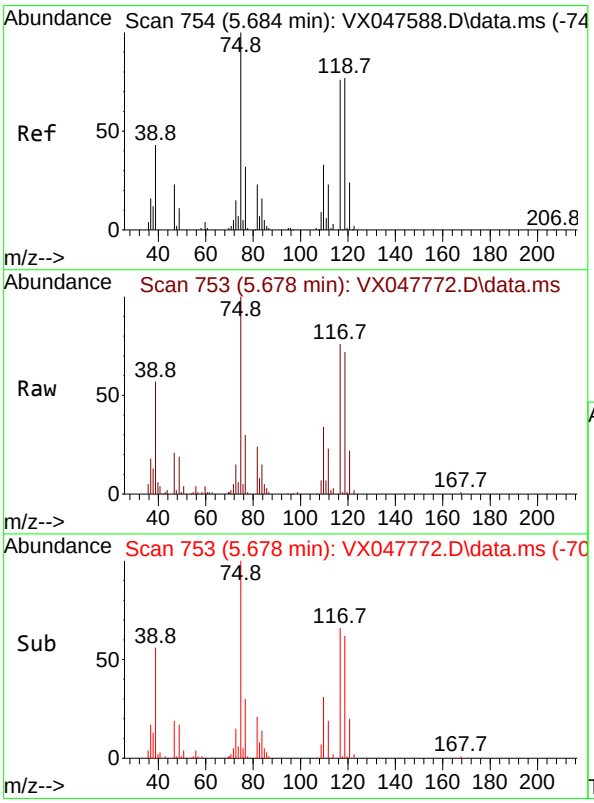
#35
Dibromofluoromethane
Concen: 55.420 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:113 Resp: 107014

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	17.7	14.2	21.4

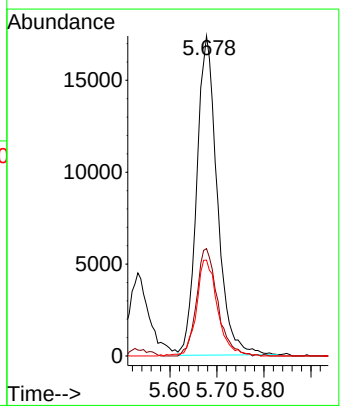


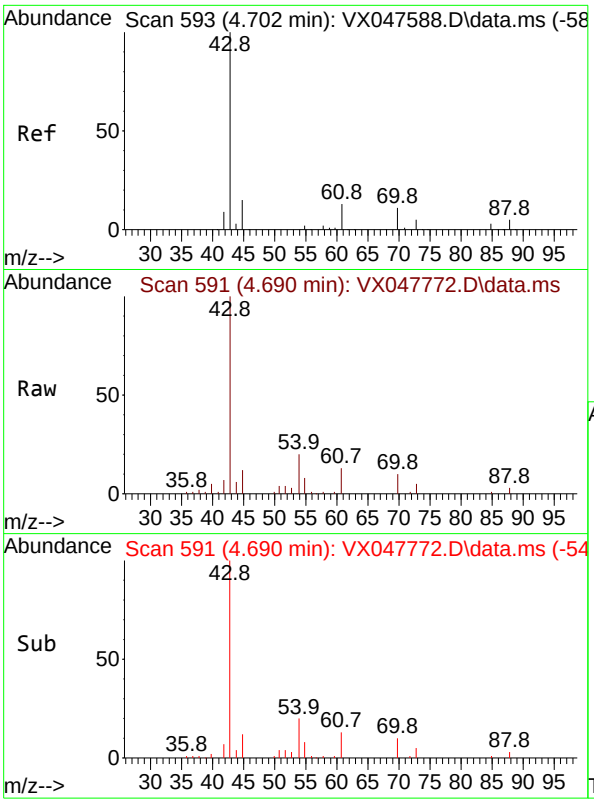


#36
1,1-Dichloropropene
Concen: 18.651 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 52624

Ion	Ratio	Lower	Upper
75	100		
110	34.7	16.7	50.1
77	31.2	24.3	36.5



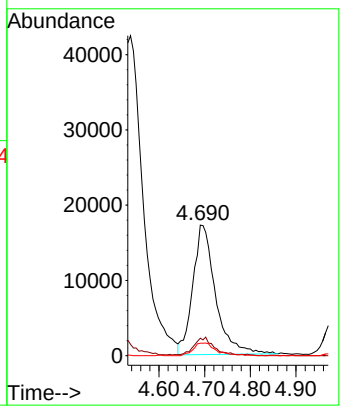


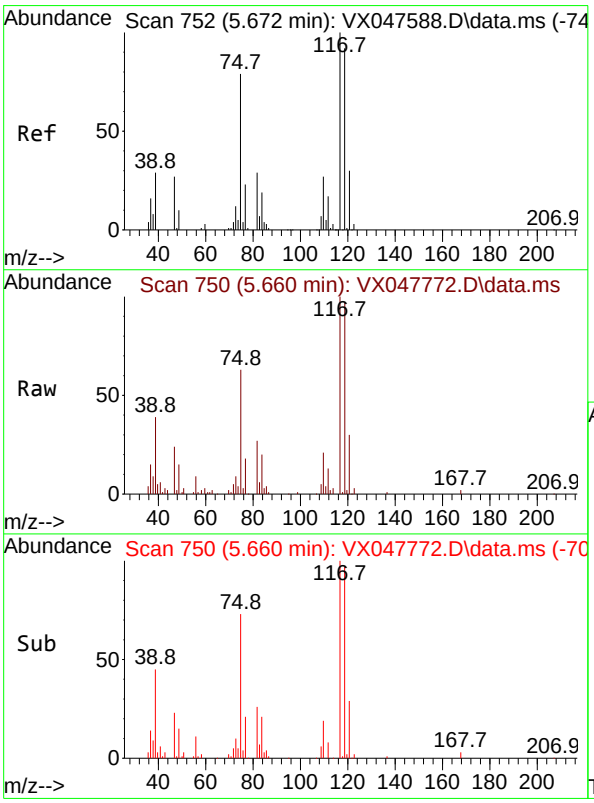
#37
Ethyl Acetate
Concen: 19.656 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 43 Resp: 59383

Ion	Ratio	Lower	Upper
43	100		
61	10.9	9.8	14.8
70	9.8	7.9	11.9

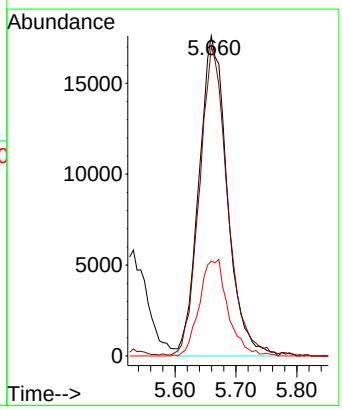


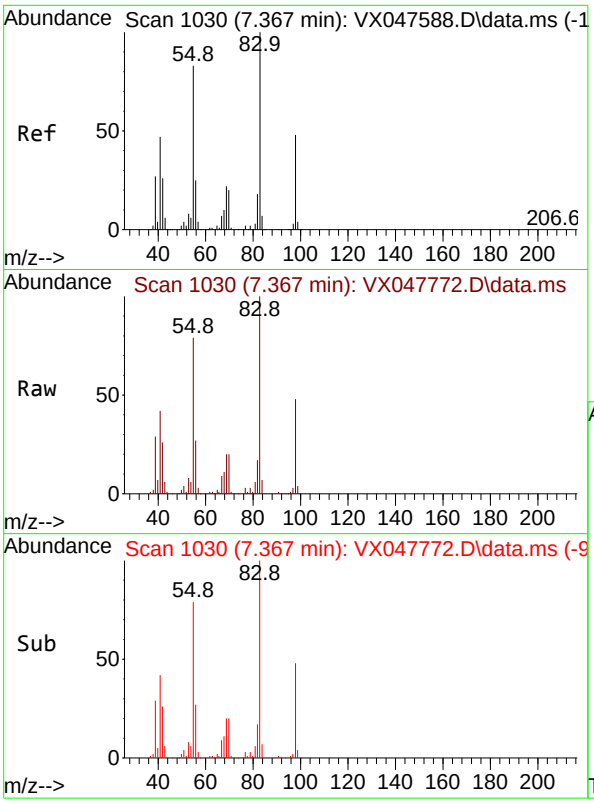


#38
Carbon Tetrachloride
Concen: 18.518 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:117 Resp: 56770

Ion	Ratio	Lower	Upper
117	100		
119	96.2	73.4	110.2
121	29.7	23.8	35.6



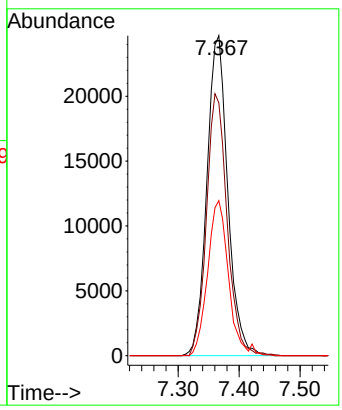


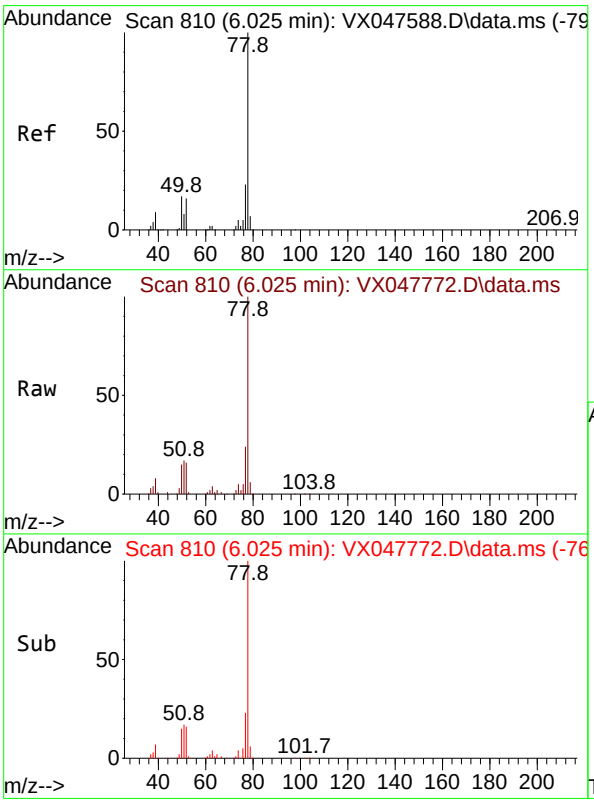
#39
Methylcyclohexane
Concen: 18.369 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 83 Resp: 58835

Ion	Ratio	Lower	Upper
83	100		
55	79.0	66.4	99.6
98	48.5	38.1	57.1

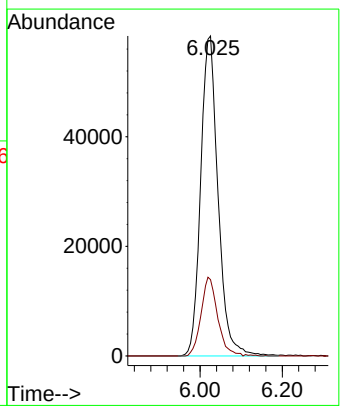


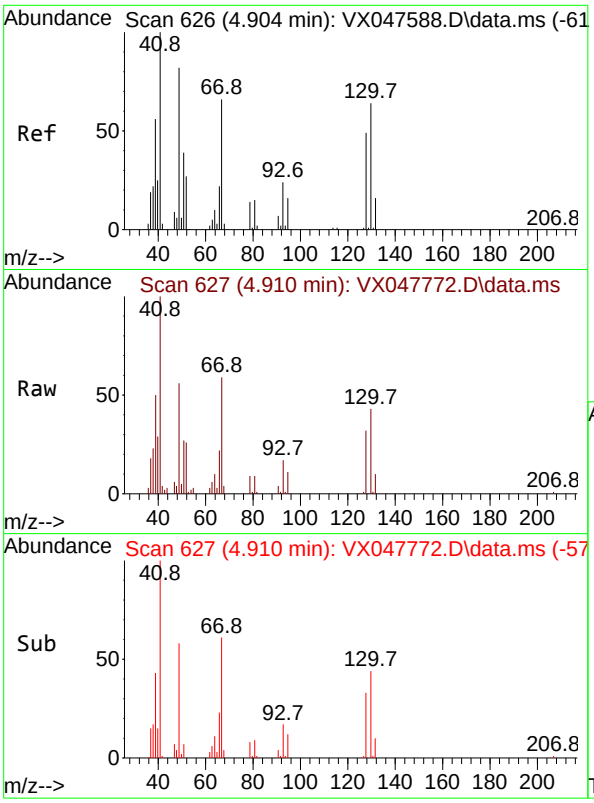


#40
Benzene
Concen: 19.980 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 78 Resp: 171230

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2



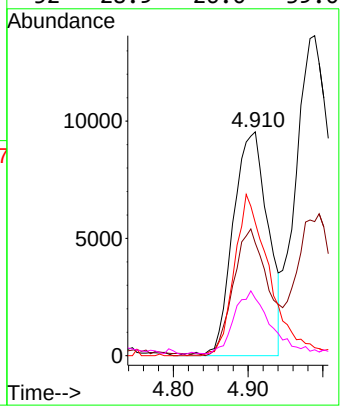


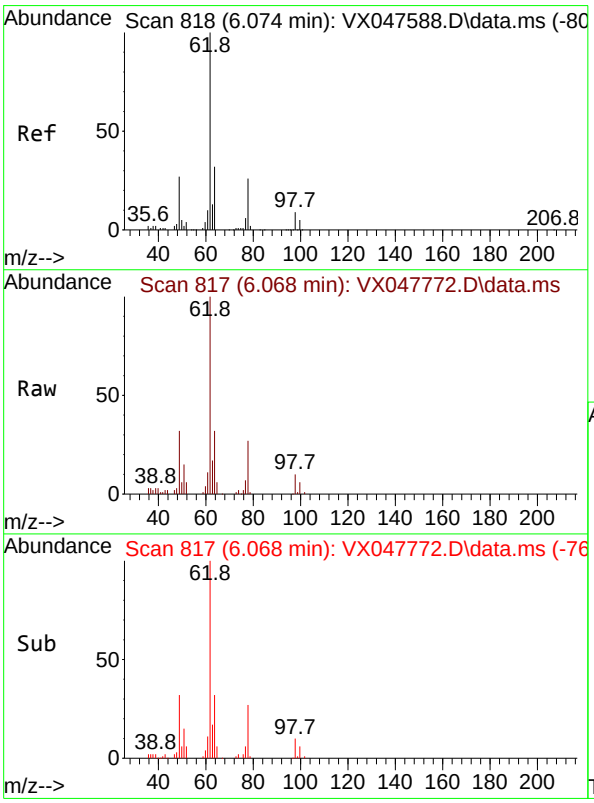
#41
Methacrylonitrile
Concen: 19.781 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 41 Resp: 30851

Ion	Ratio	Lower	Upper
41	100		
39	57.3	43.3	64.9
67	74.5	58.6	87.8
52	28.9	26.0	39.0

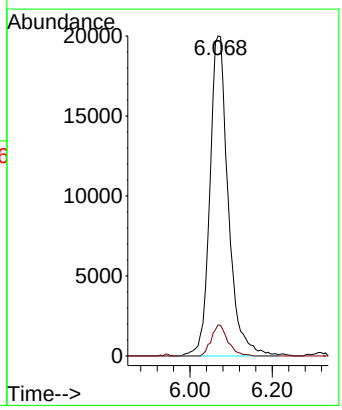


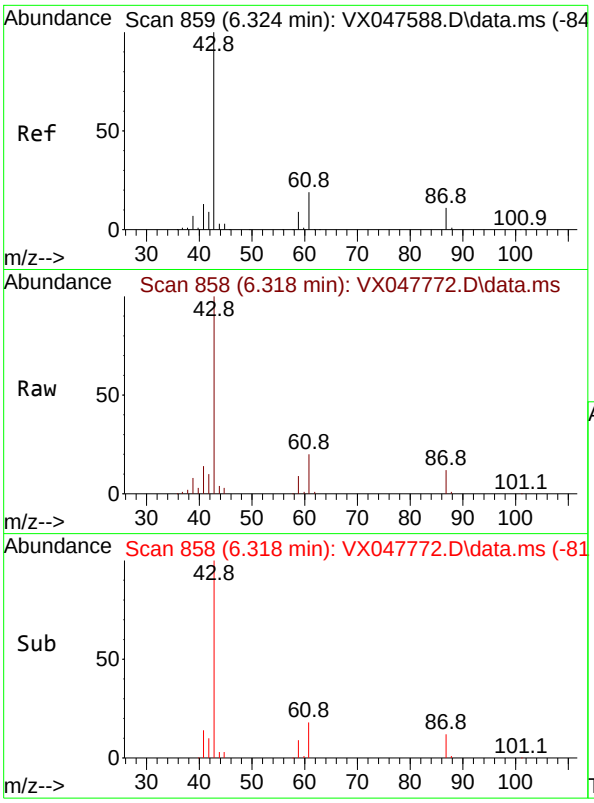


#42
1,2-Dichloroethane
Concen: 19.081 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 62 Resp: 62217

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0



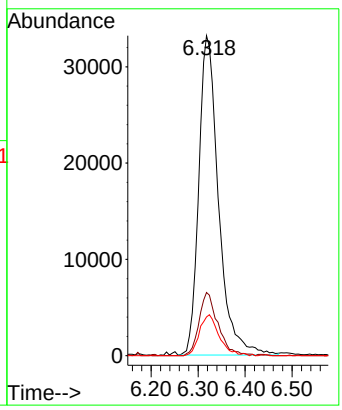


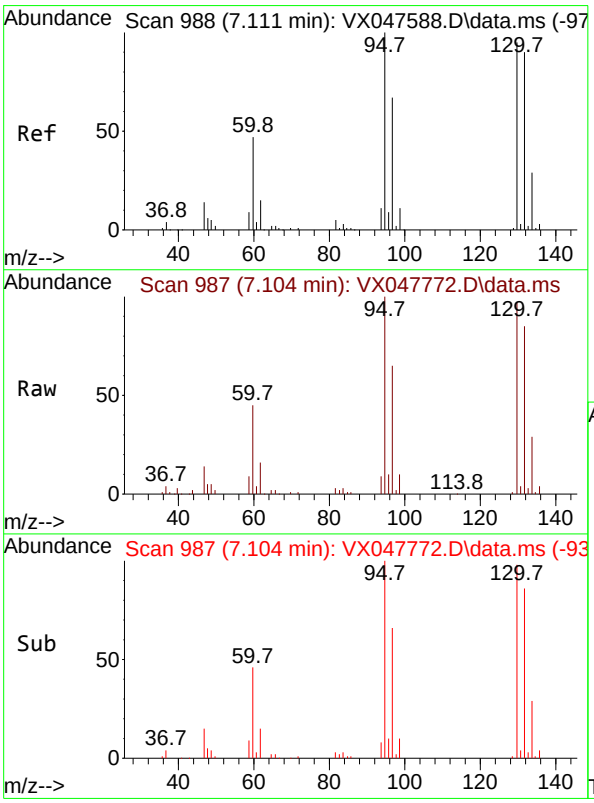
#43
Isopropyl Acetate
Concen: 19.553 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 43 Resp: 96880

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.8	9.6	14.4

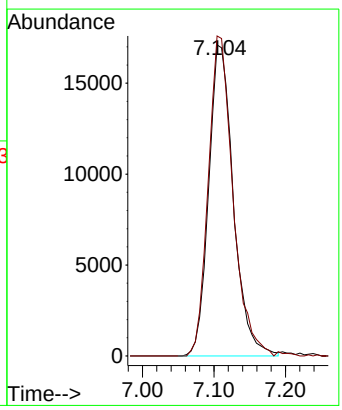


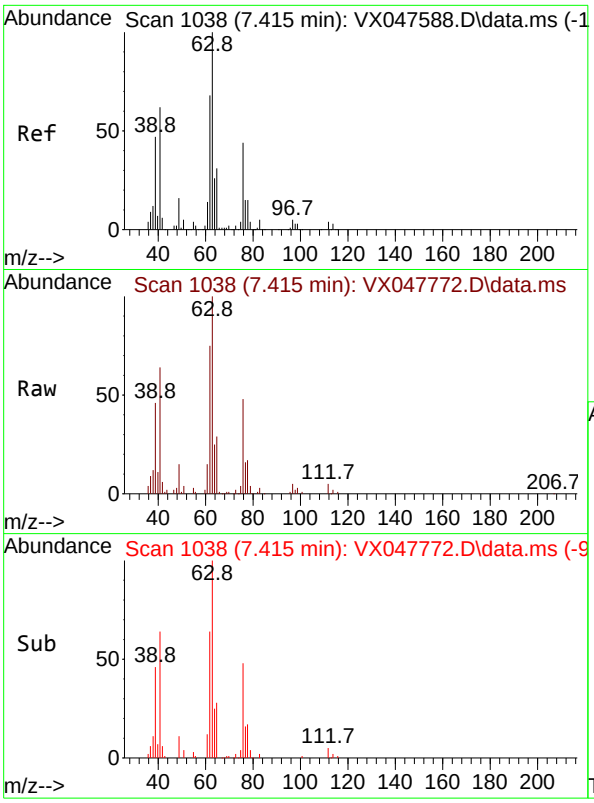


#44
Trichloroethene
Concen: 19.790 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:130 Resp: 41002

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	210.8



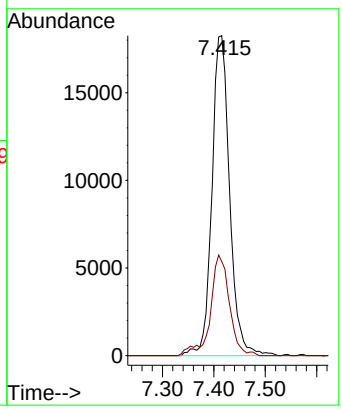


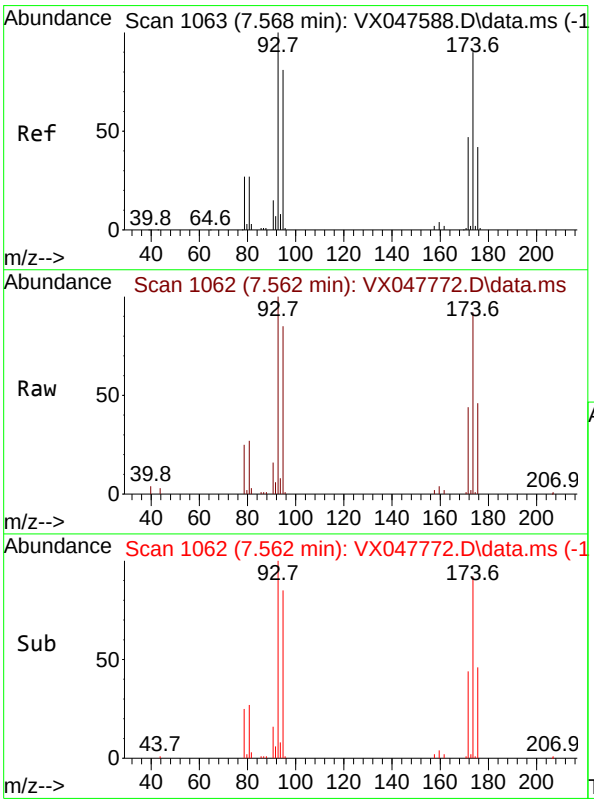
#45
1,2-Dichloropropane
Concen: 19.919 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 63 Resp: 43710

Ion	Ratio	Lower	Upper
63	100		
65	29.5	24.7	37.1

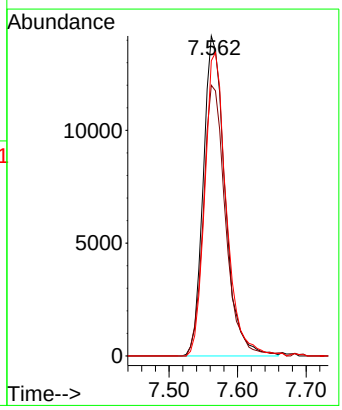


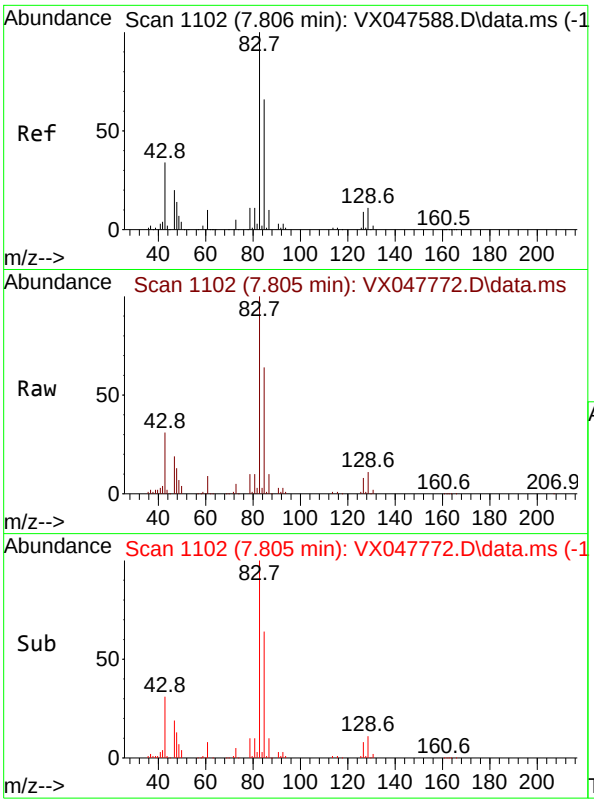


#46
Dibromomethane
Concen: 19.654 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 93 Resp: 31385

Ion	Ratio	Lower	Upper
93	100		
95	86.3	65.0	97.6
174	93.9	71.6	107.4



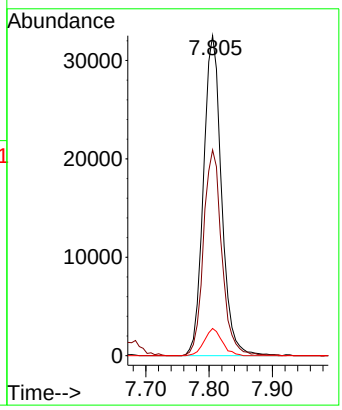


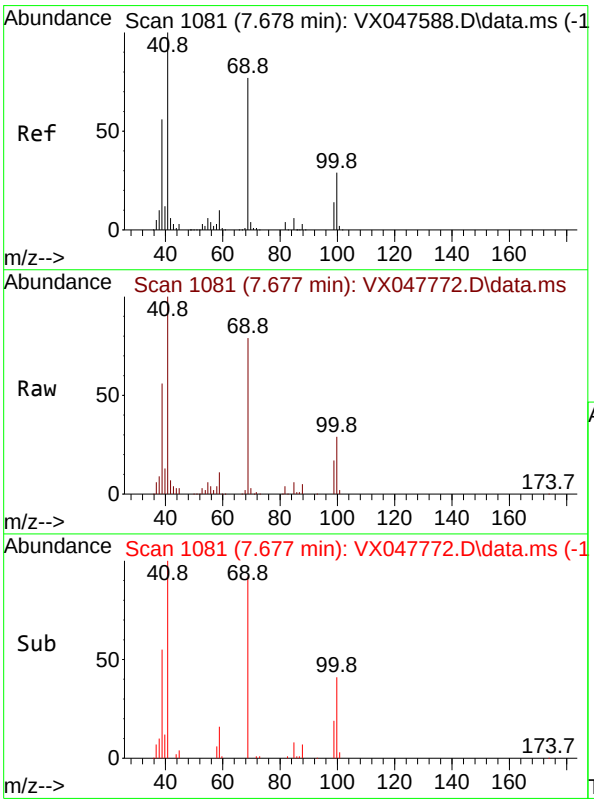
#47
Bromodichloromethane
Concen: 19.641 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 83 Resp: 64722

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7
127	8.5	6.9	10.3

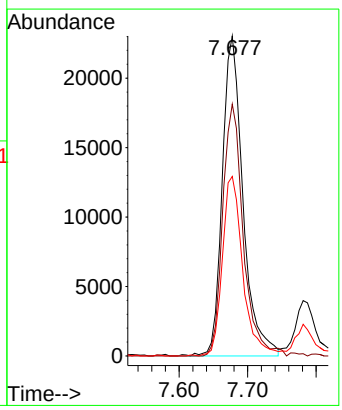


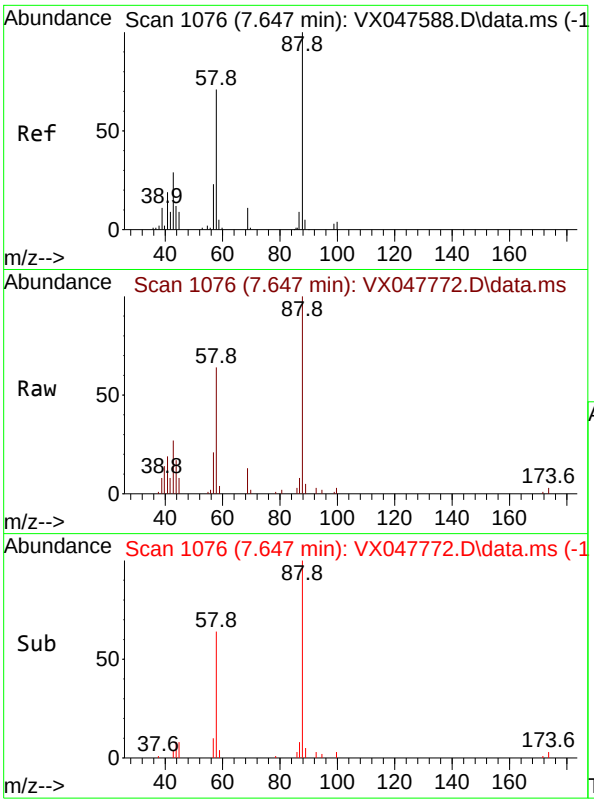


#48
Methyl methacrylate
Concen: 19.530 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 41 Resp: 48200

Ion	Ratio	Lower	Upper
41	100		
69	78.1	61.4	92.2
39	55.4	45.8	68.6



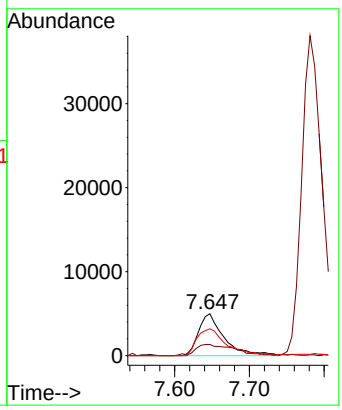


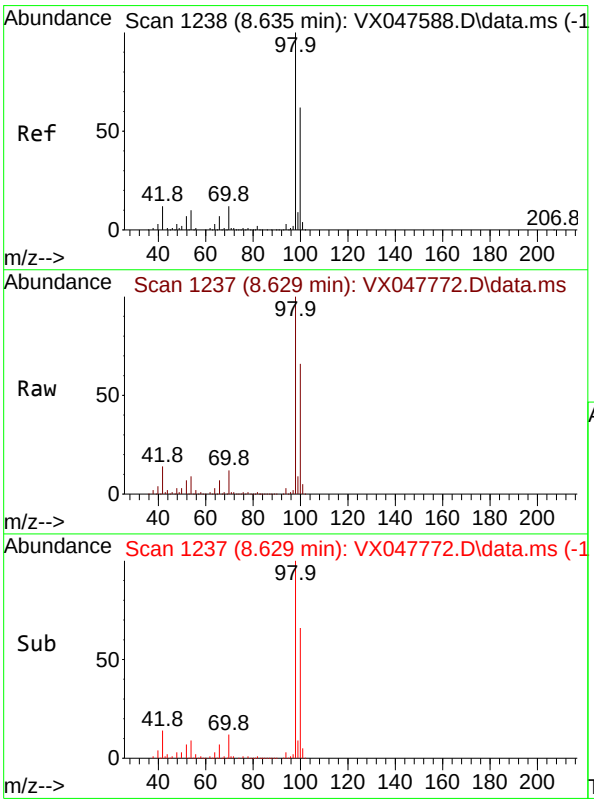
#49
1,4-Dioxane
Concen: 470.527 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 88 Resp: 11736

Ion	Ratio	Lower	Upper
88	100		
43	42.4	30.2	45.2
58	74.2	59.5	89.3

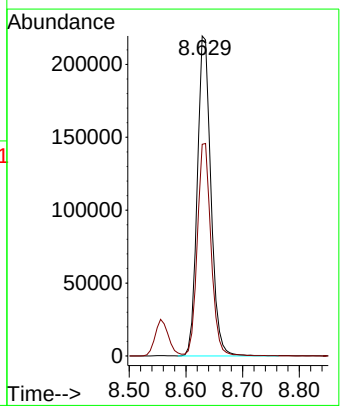


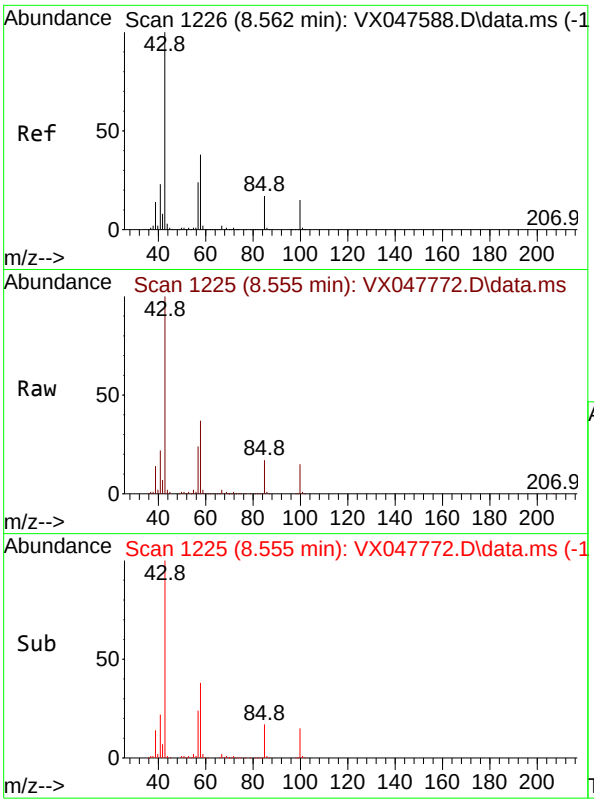


#50
Toluene-d8
Concen: 54.748 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 98 Resp: 365795

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4



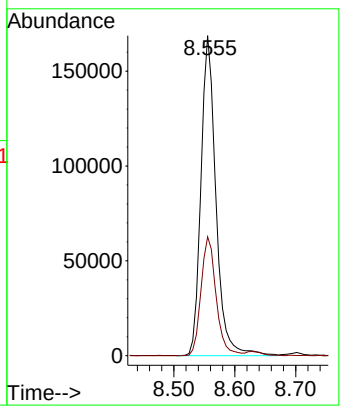


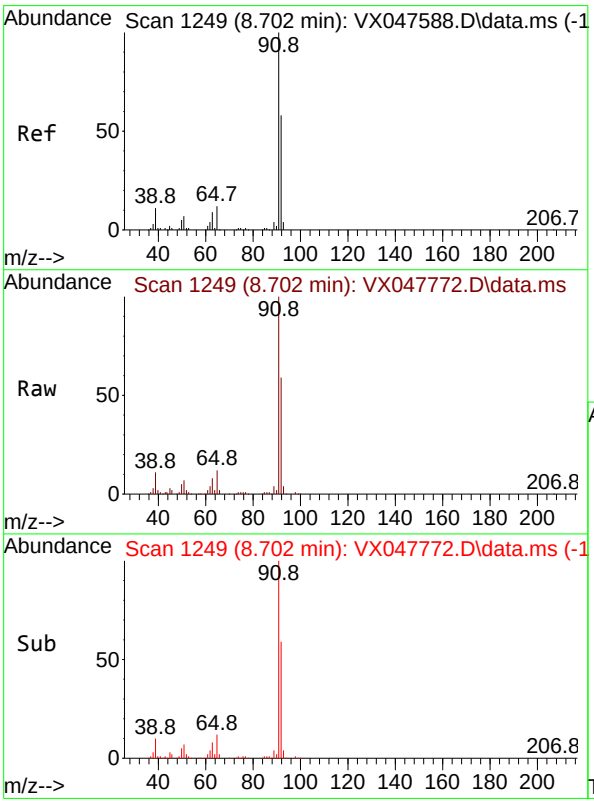
#51
4-Methyl-2-Pentanone
Concen: 105.270 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 43 Resp: 289193

Ion	Ratio	Lower	Upper
43	100		
58	37.3	30.3	45.5

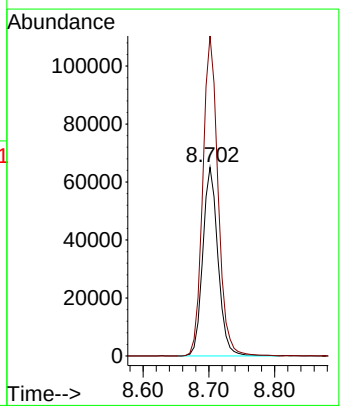


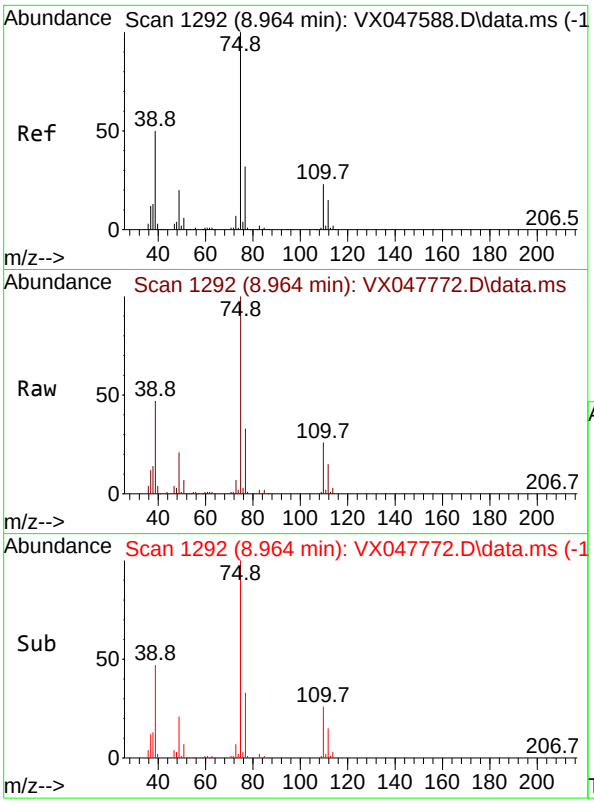


#52
Toluene
Concen: 19.804 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 92 Resp: 104564

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7



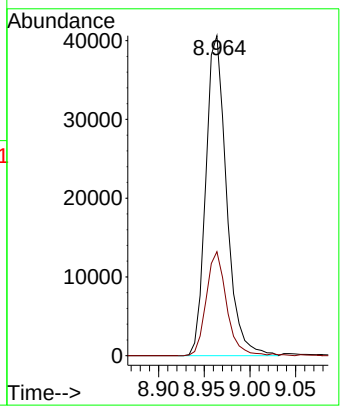


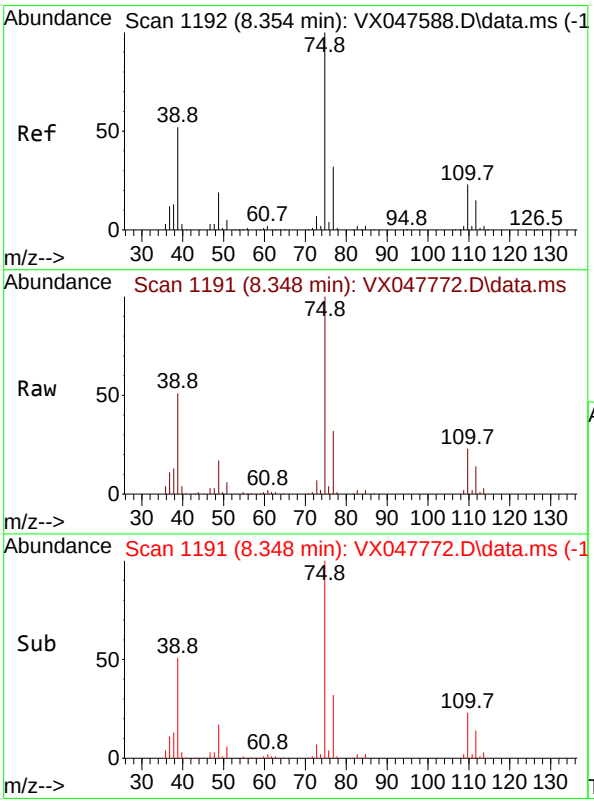
#53
t-1,3-Dichloropropene
Concen: 19.030 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 75 Resp: 63962

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.2

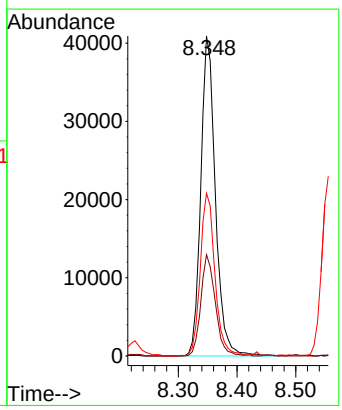


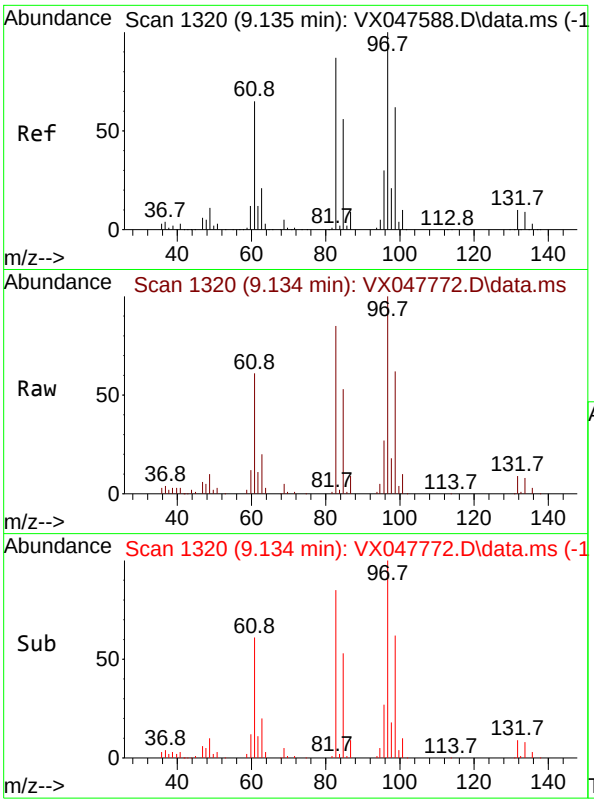


#54
cis-1,3-Dichloropropene
Concen: 19.669 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 70664

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.8	38.6
39	49.7	41.4	62.2



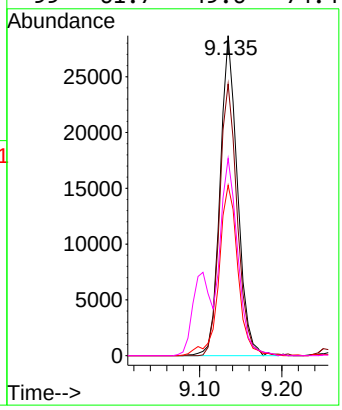


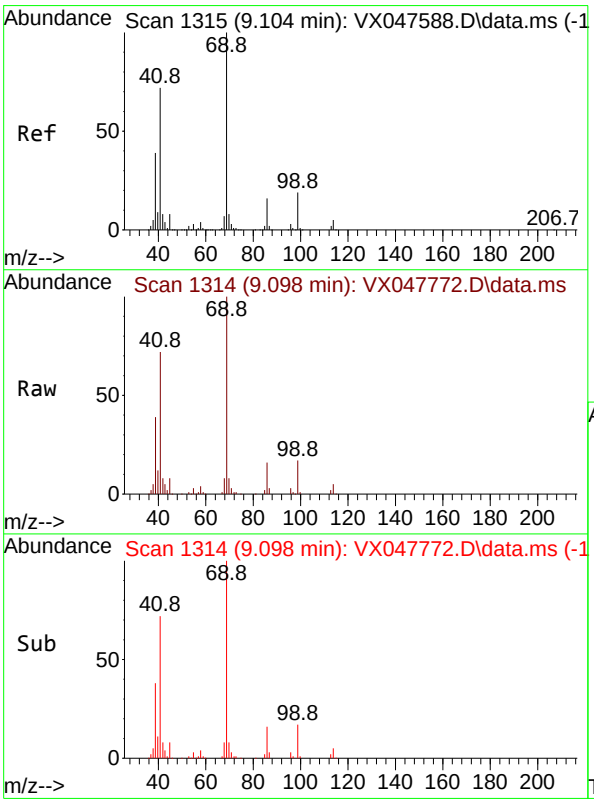
#55
1,1,2-Trichloroethane
Concen: 20.766 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 97 Resp: 42278

Ion	Ratio	Lower	Upper
97	100		
83	84.9	69.6	104.4
85	53.3	45.0	67.6
99	61.7	49.6	74.4

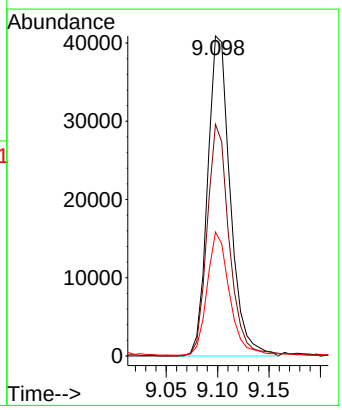


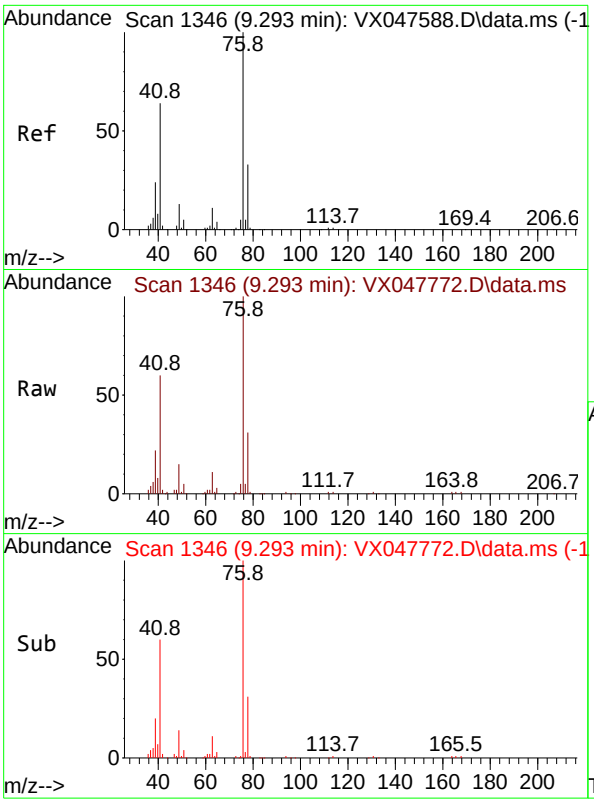


#56
Ethyl methacrylate
Concen: 19.540 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 69 Resp: 62475

Ion	Ratio	Lower	Upper
69	100		
41	71.4	58.6	87.8
39	39.0	31.5	47.3



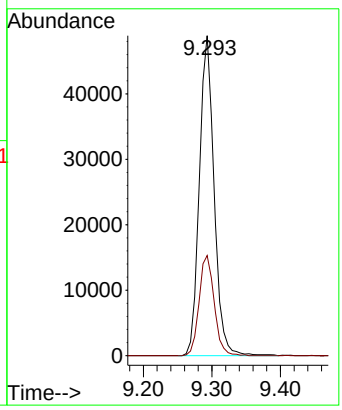


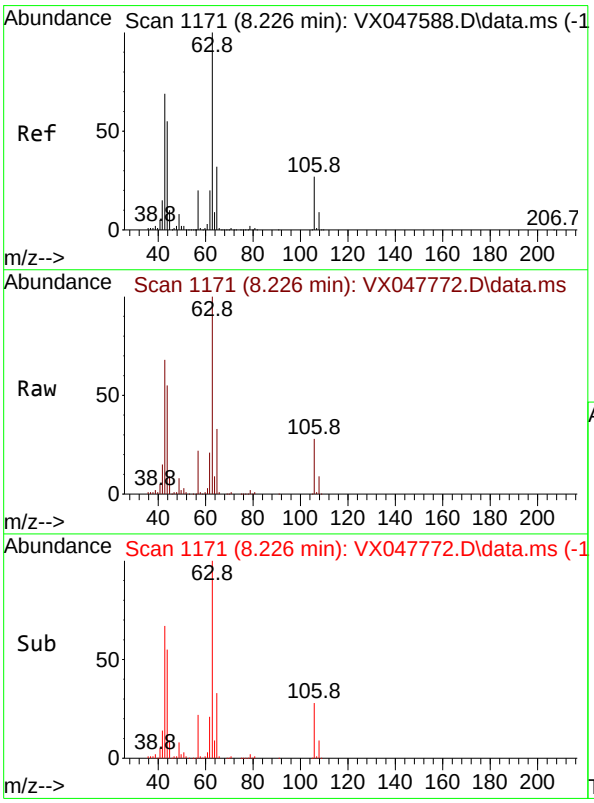
#57
1,3-Dichloropropane
Concen: 20.961 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 76 Resp: 73306

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.4

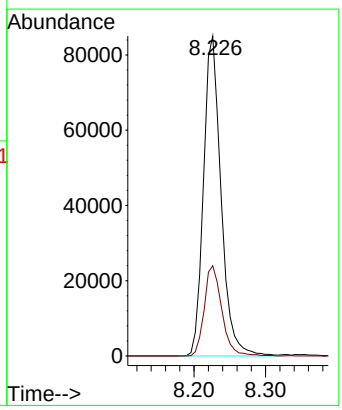


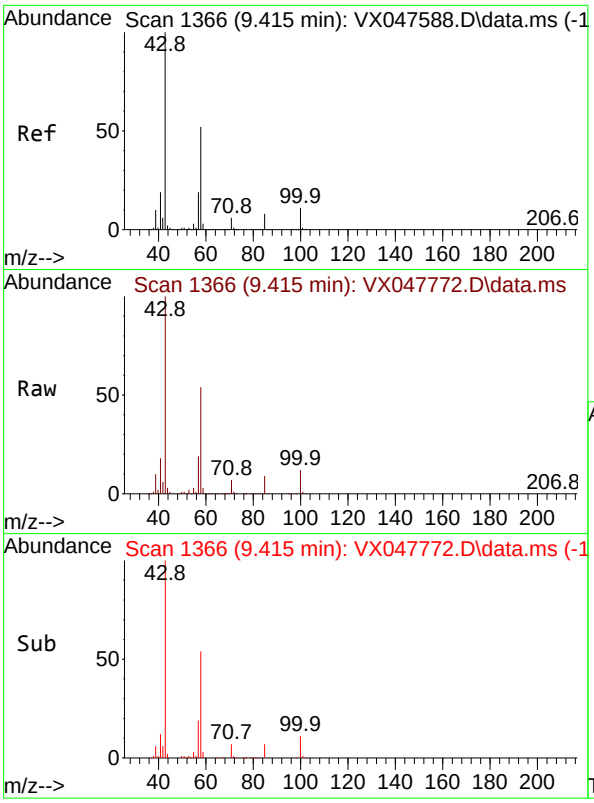


#58
2-Chloroethyl Vinyl ether
Concen: 101.954 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 63 Resp: 144993

Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.9	32.9



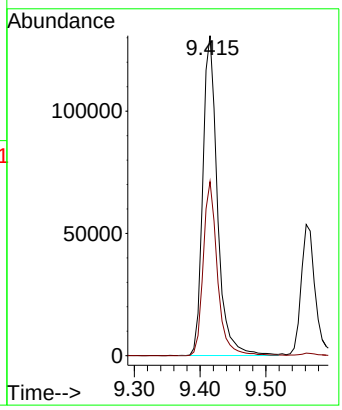


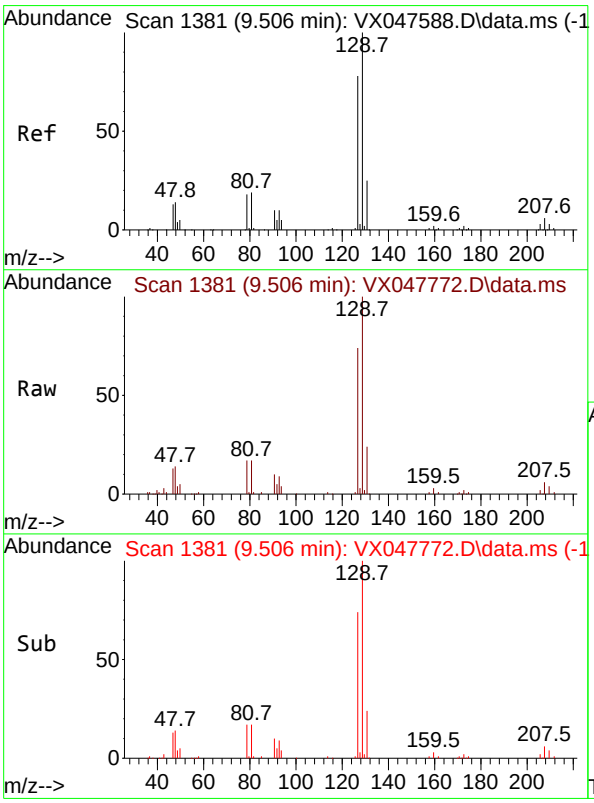
#59
2-Hexanone
Concen: 102.535 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 43 Resp: 202304

Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.2

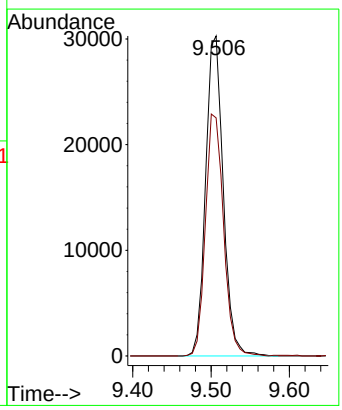


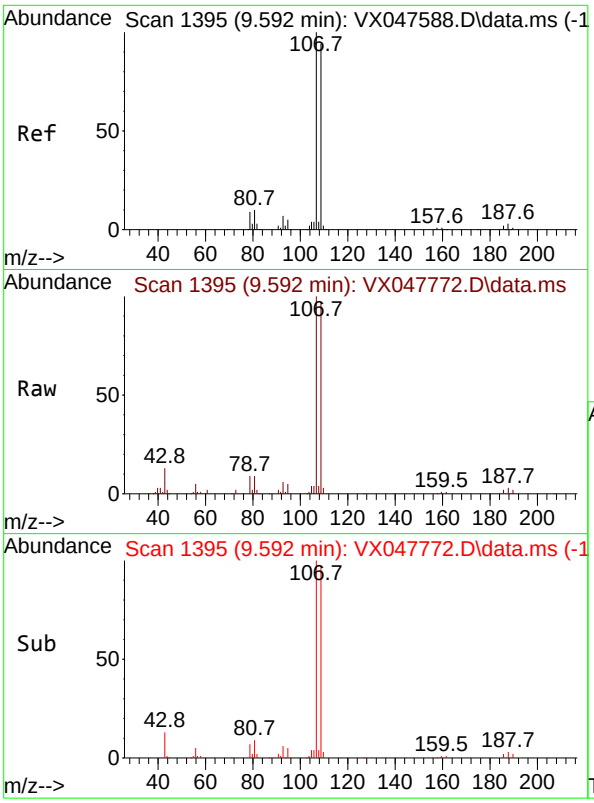


#60
Dibromochloromethane
Concen: 20.088 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:129 Resp: 47122

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2



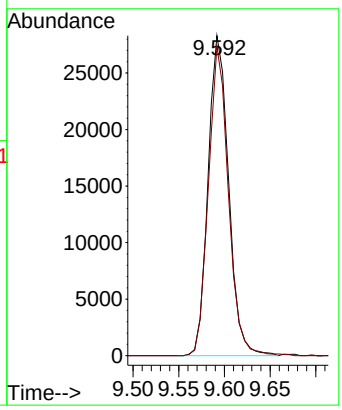


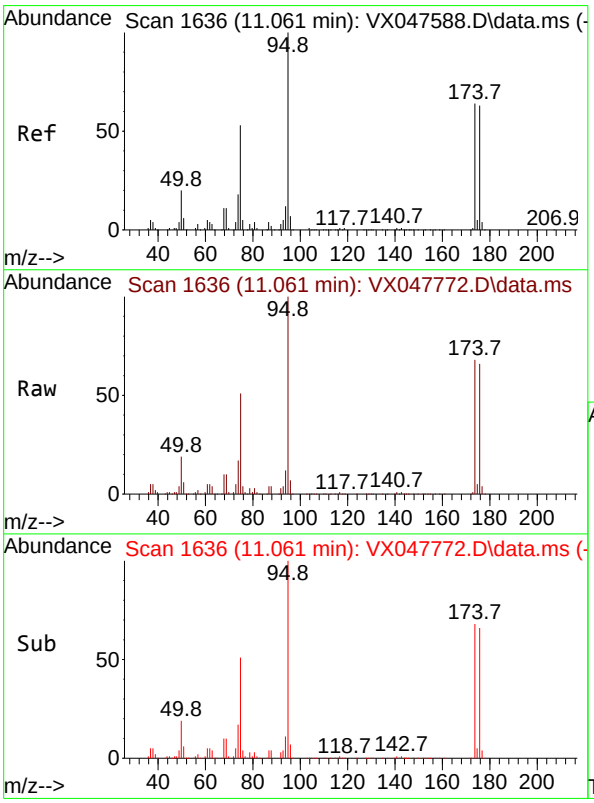
#61
1,2-Dibromoethane
Concen: 21.240 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:107 Resp: 44045

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.3	112.9

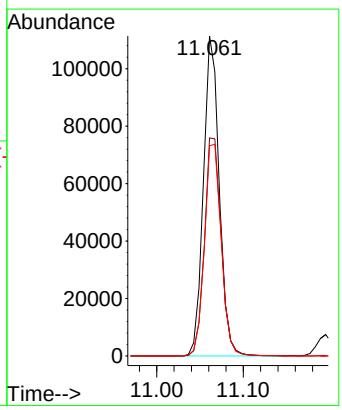


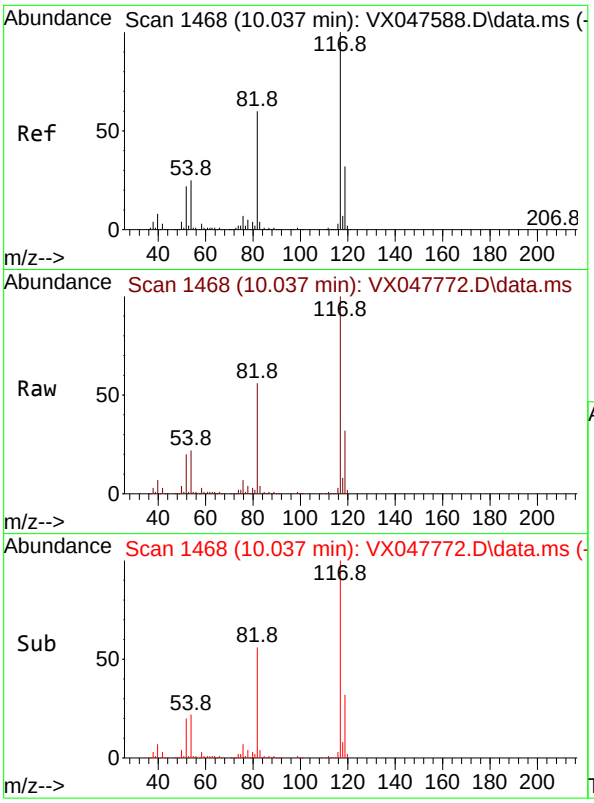


#62
4-Bromofluorobenzene
Concen: 55.720 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 95 Resp: 141293

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	141.6
176	70.4	0.0	138.4



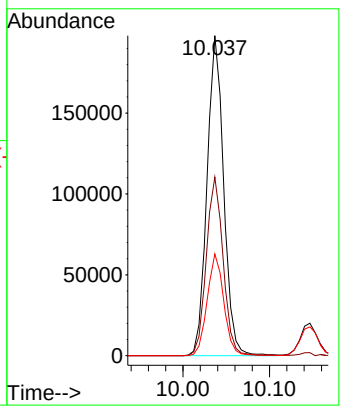


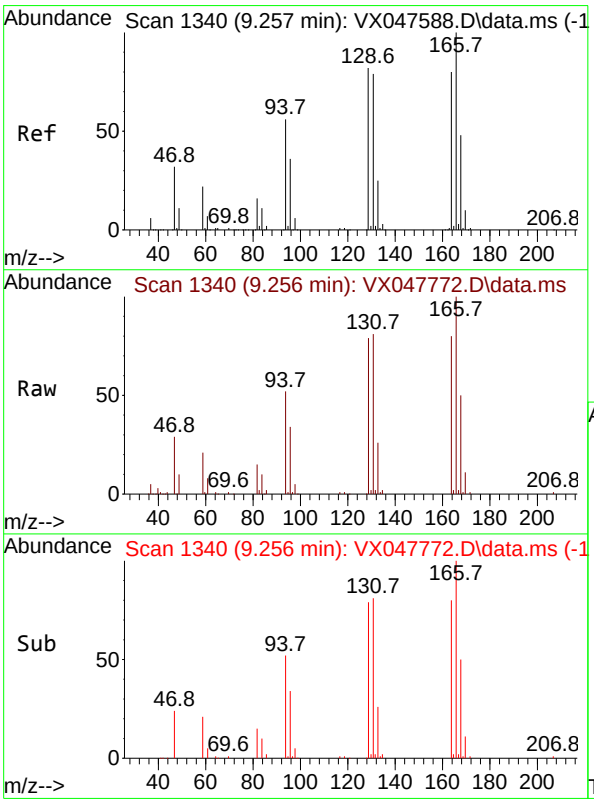
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:117 Resp: 264714

Ion	Ratio	Lower	Upper
117	100		
82	55.8	47.8	71.6
119	31.8	25.2	37.8

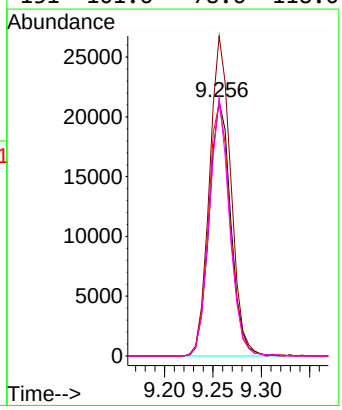


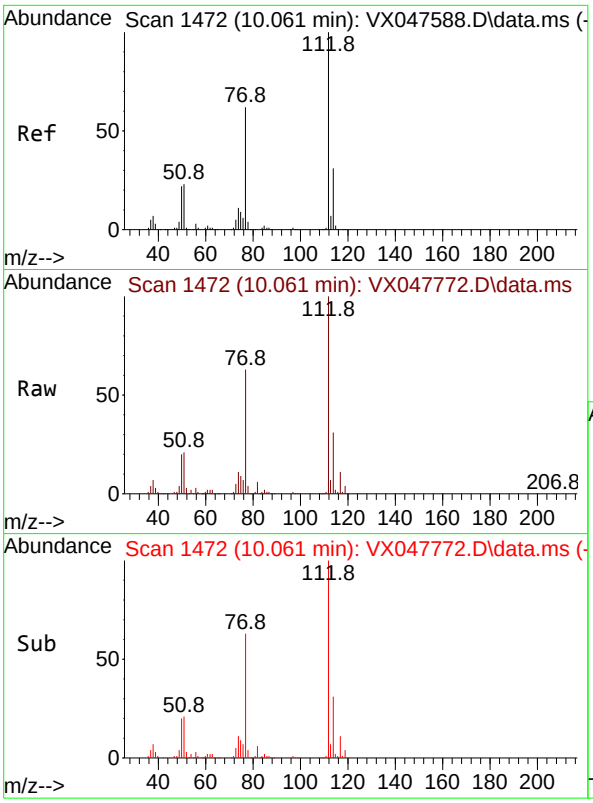


#64
Tetrachloroethene
Concen: 19.110 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:164 Resp: 32977

Ion	Ratio	Lower	Upper
164	100		
166	125.7	100.2	150.2
129	99.2	81.8	122.6
131	101.6	78.6	118.0



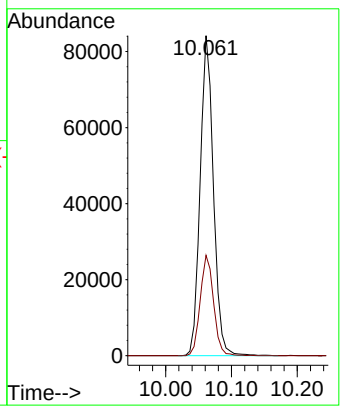


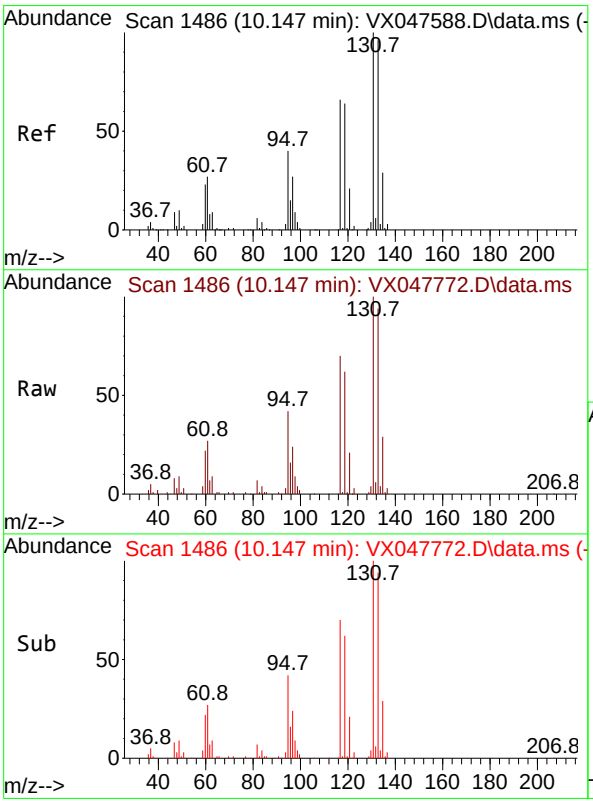
#65
Chlorobenzene
Concen: 19.626 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:112 Resp: 118026

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

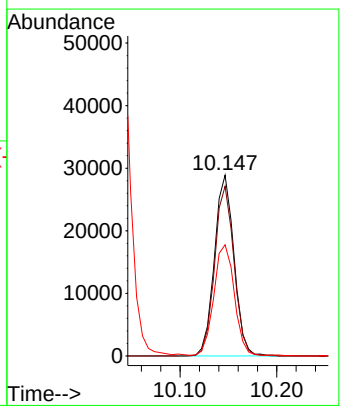


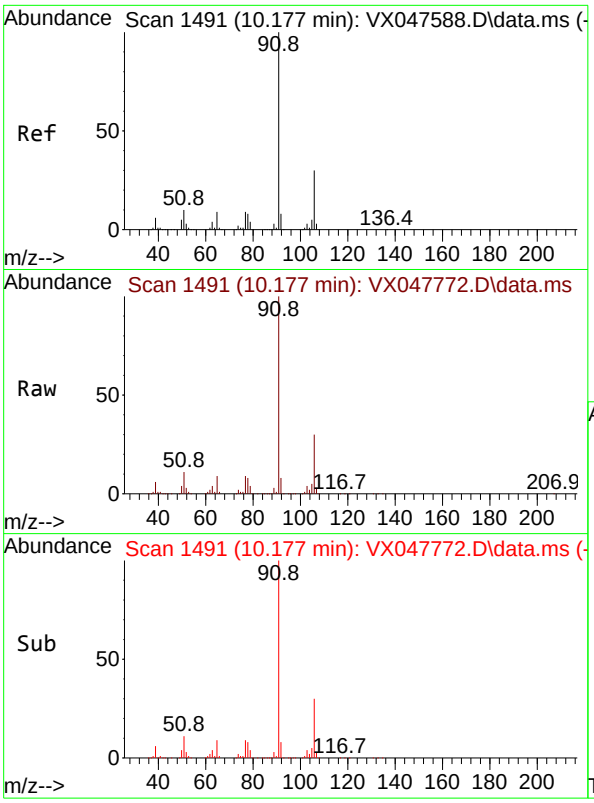


#66
1,1,1,2-Tetrachloroethane
Concen: 19.563 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:131 Resp: 40597

Ion	Ratio	Lower	Upper
131	100		
133	93.4	47.3	142.0
119	63.7	32.0	96.0



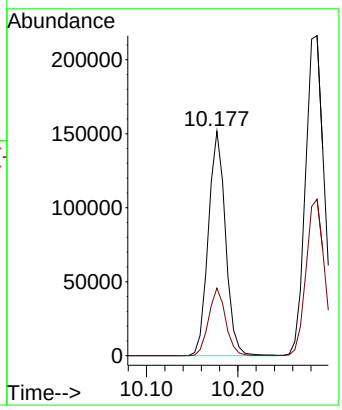


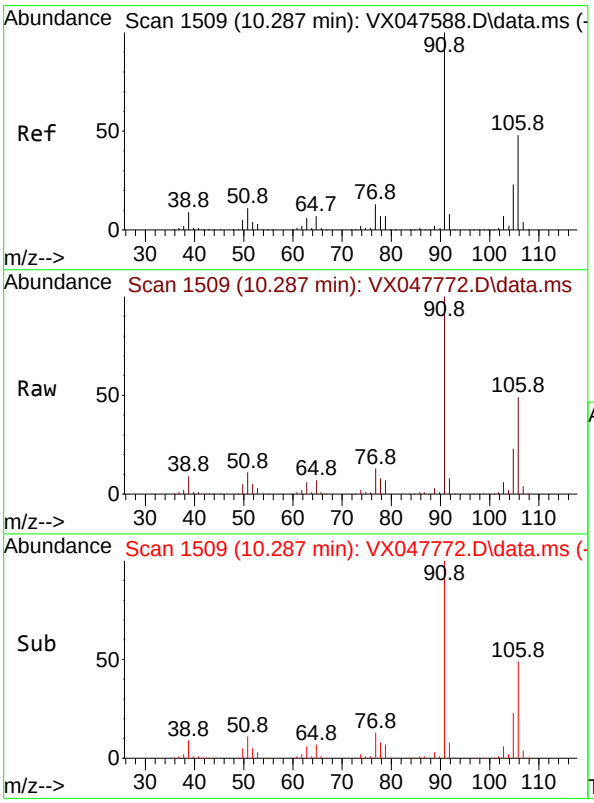
#67
Ethyl Benzene
Concen: 19.053 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 91 Resp: 197704

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.3	36.5

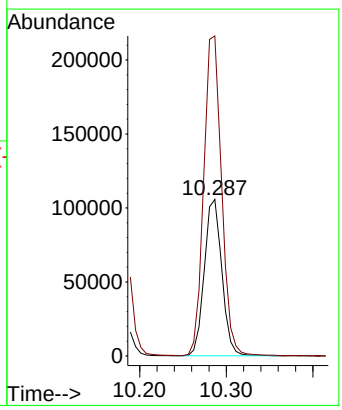


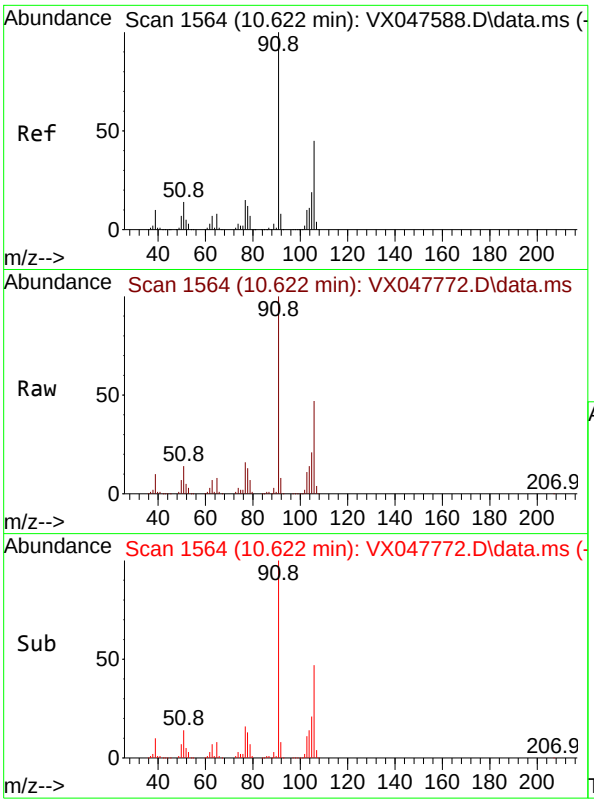


#68
m/p-Xylenes
Concen: 38.547 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:106 Resp: 148875

Ion	Ratio	Lower	Upper
106	100		
91	208.4	167.8	251.8



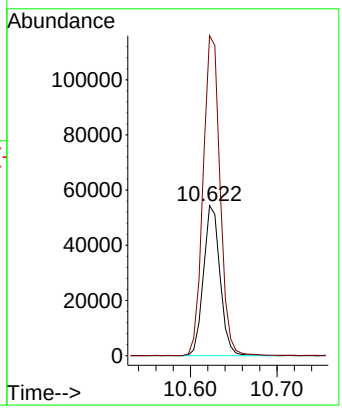


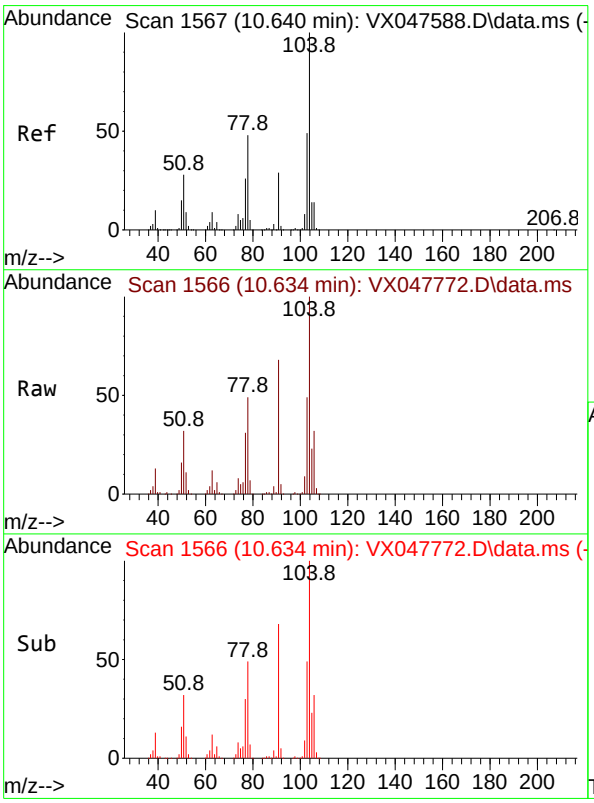
#69
o-Xylene
Concen: 19.361 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:106 Resp: 72324

Ion	Ratio	Lower	Upper
106	100		
91	218.6	111.1	333.4

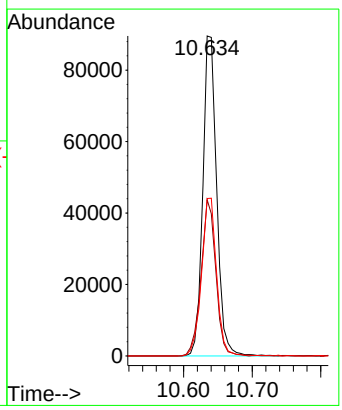


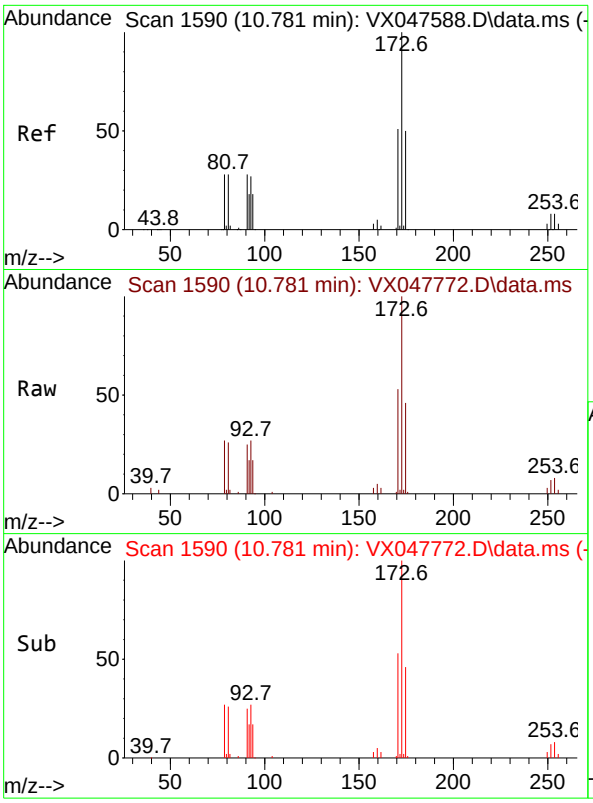


#70
Styrene
Concen: 19.325 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:104 Resp: 126494

Ion	Ratio	Lower	Upper
104	100		
78	51.9	43.1	64.7
103	53.4	43.1	64.7



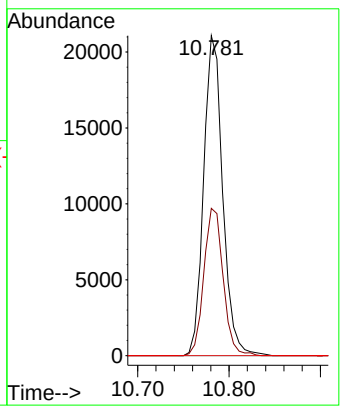


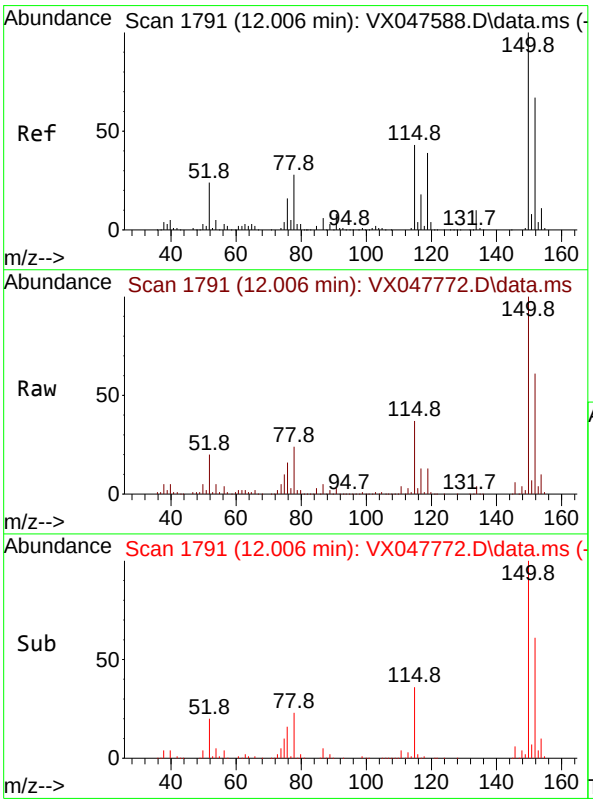
#71
Bromoform
Concen: 19.638 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:173 Resp: 30430

Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.9	74.6
254	0.0	0.1	0.1#

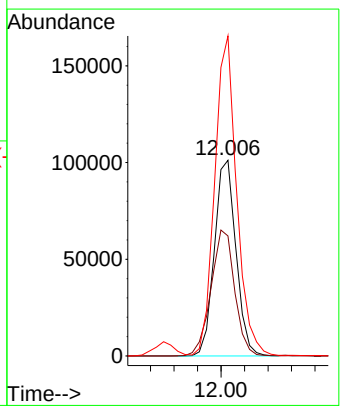


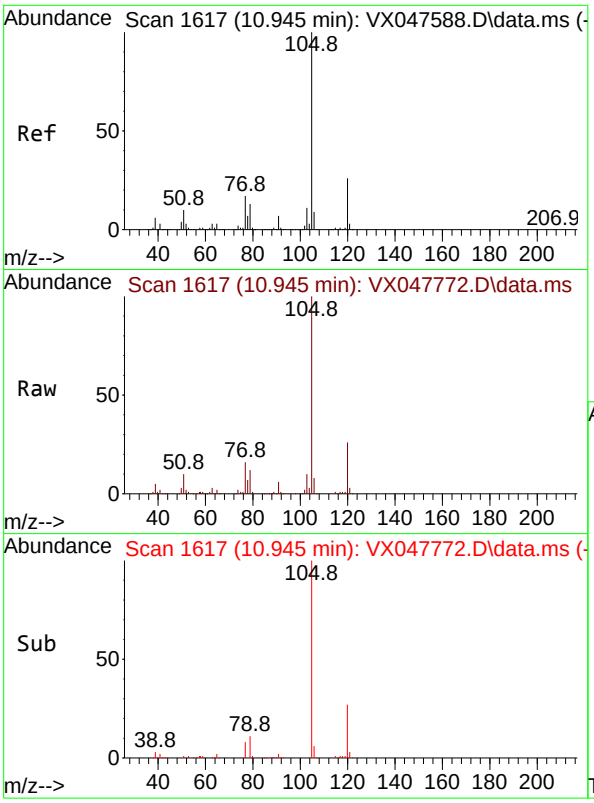


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:152 Resp: 129236

Ion	Ratio	Lower	Upper
152	100		
115	70.6	44.9	134.5
150	166.8	0.0	352.0



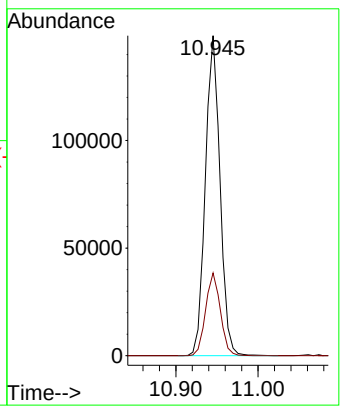


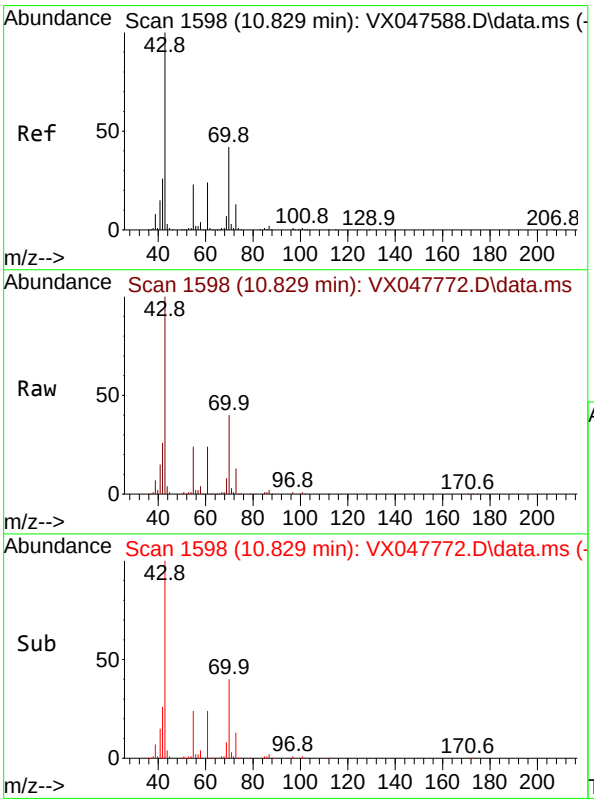
#73
Isopropylbenzene
Concen: 18.708 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:105 Resp: 183812

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4

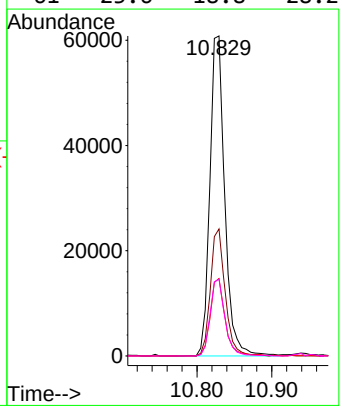


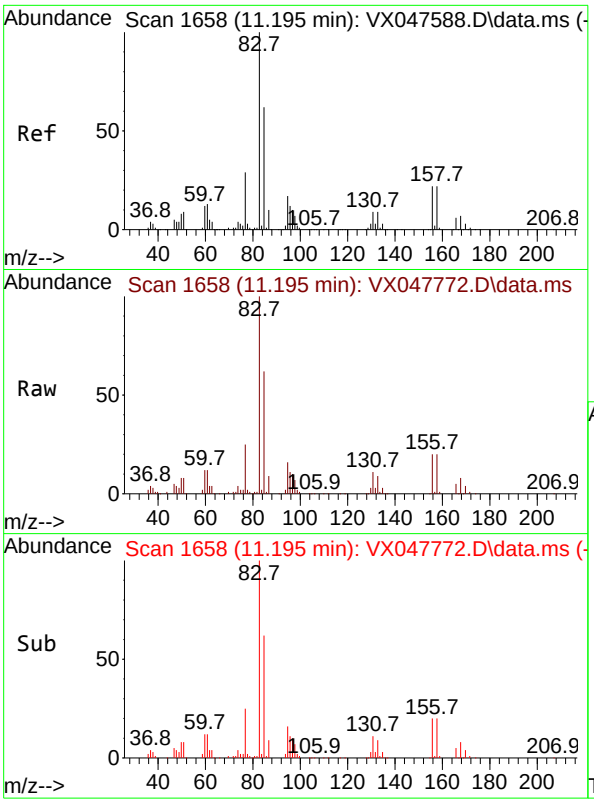


#74
N-amyl acetate
Concen: 18.837 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 43 Resp: 84398

Ion	Ratio	Lower	Upper
43	100		
70	39.3	32.0	48.0
55	24.1	18.9	28.3
61	23.6	18.8	28.2



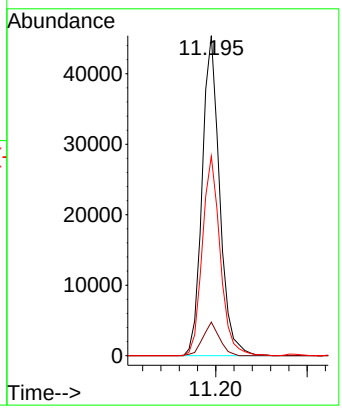


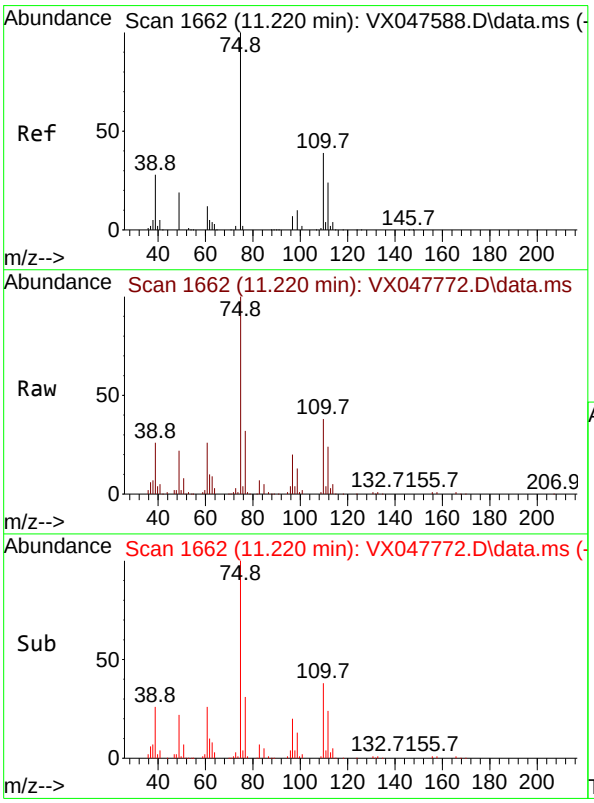
#75
1,1,2,2-Tetrachloroethane
Concen: 20.230 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 83 Resp: 60136

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	63.8	31.6	95.0

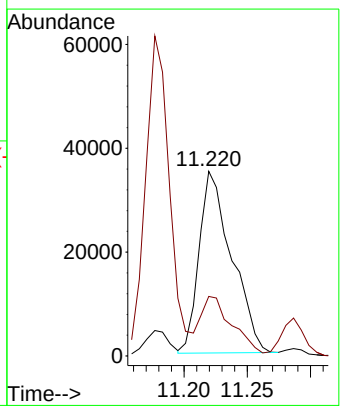


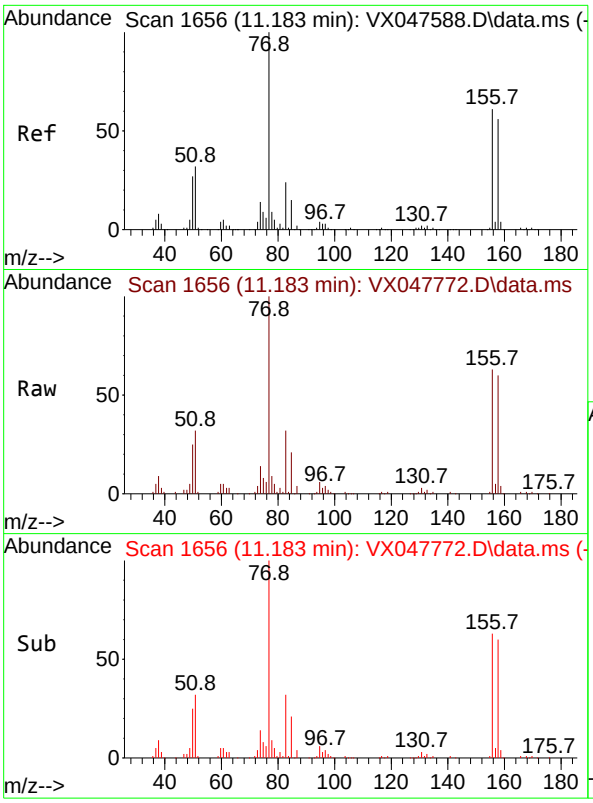


#76
1,2,3-Trichloropropane
Concen: 24.075 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 62995

Ion	Ratio	Lower	Upper
75	100		
77	31.4	18.8	56.4



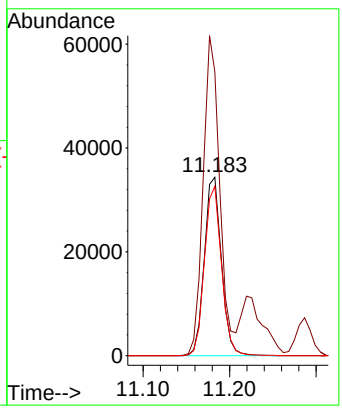


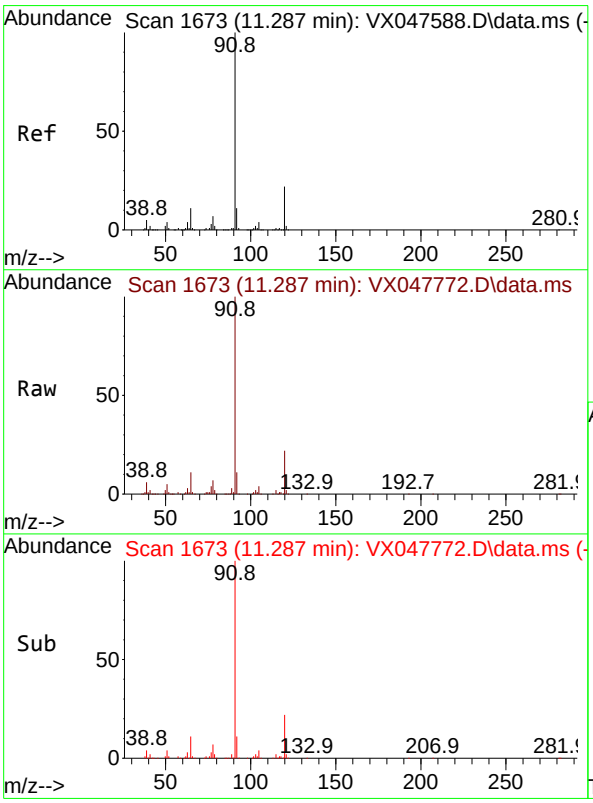
#77
Bromobenzene
Concen: 19.505 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:156 Resp: 47200

Ion	Ratio	Lower	Upper
156	100		
77	174.3	89.7	269.1
158	94.8	47.9	143.6

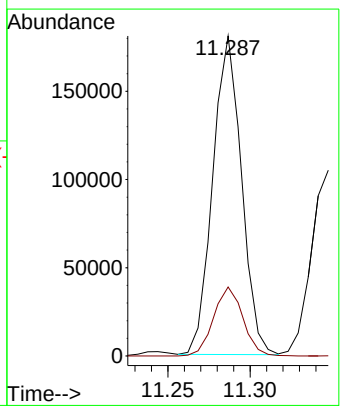


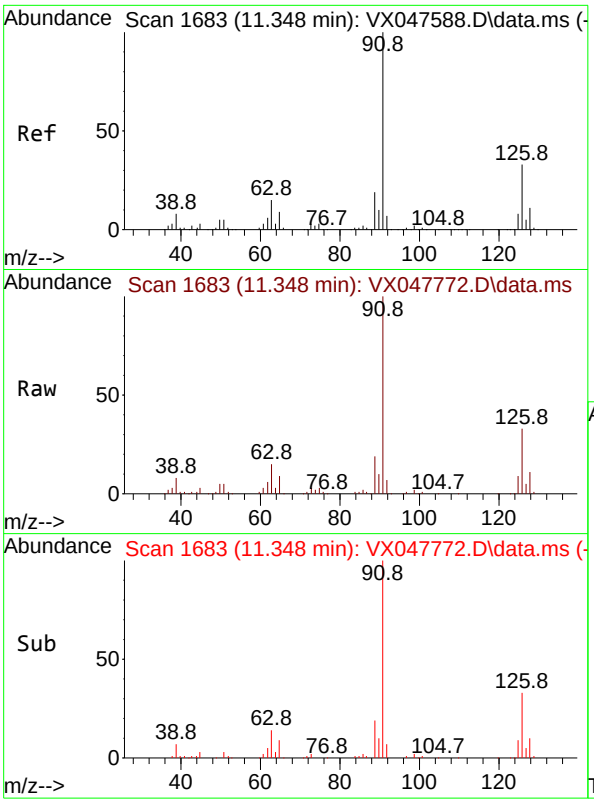


#78
n-propylbenzene
Concen: 18.882 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 91 Resp: 219305

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1



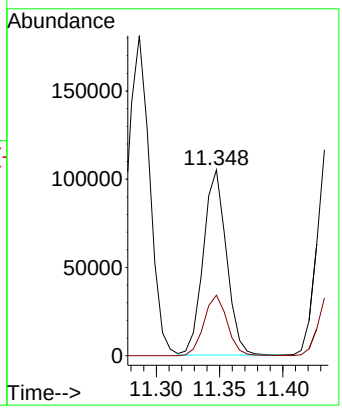


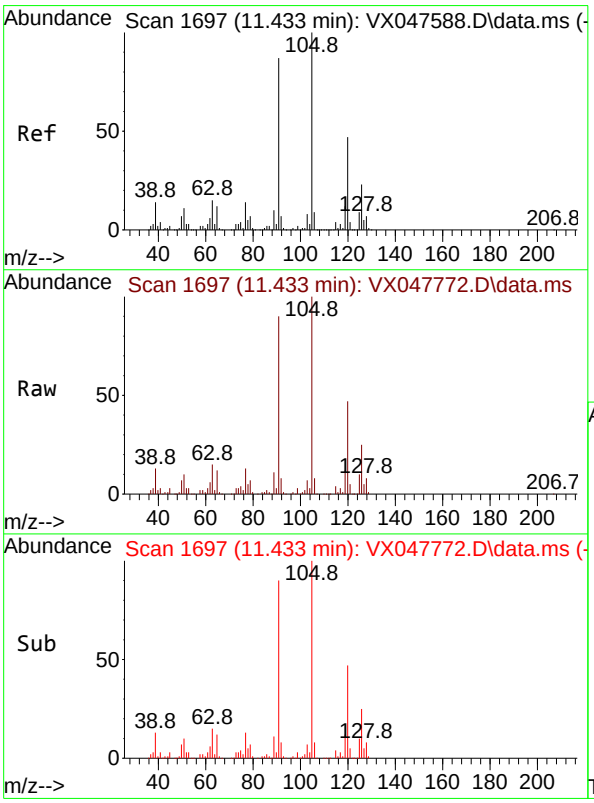
#79
2-Chlorotoluene
Concen: 18.794 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 91 Resp: 133694

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.1	48.3

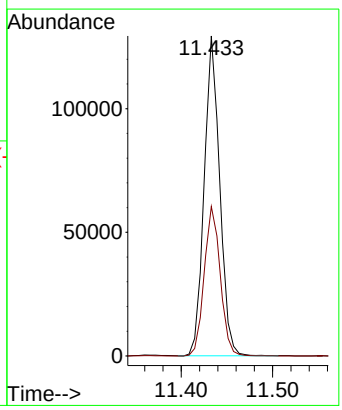


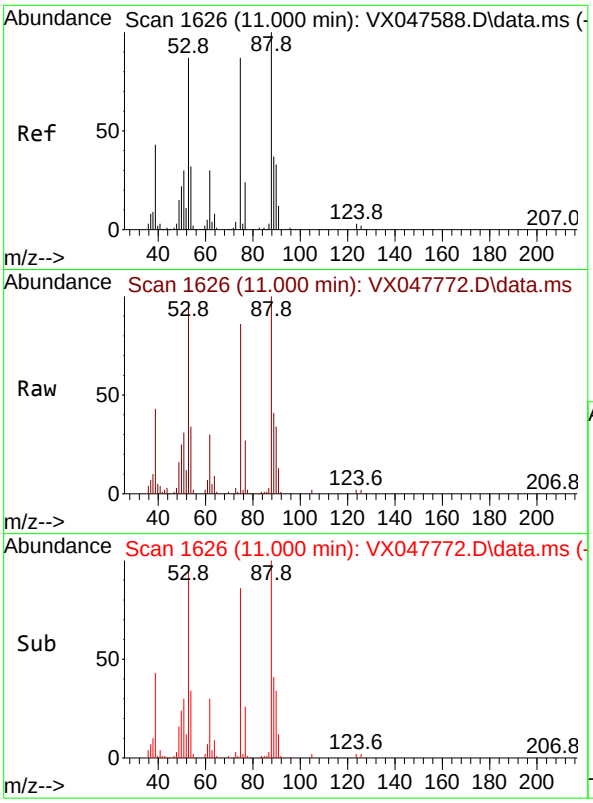


#80
1,3,5-Trimethylbenzene
Concen: 18.903 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:105 Resp: 152588

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.6	70.8



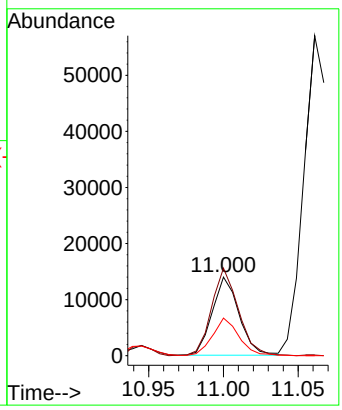


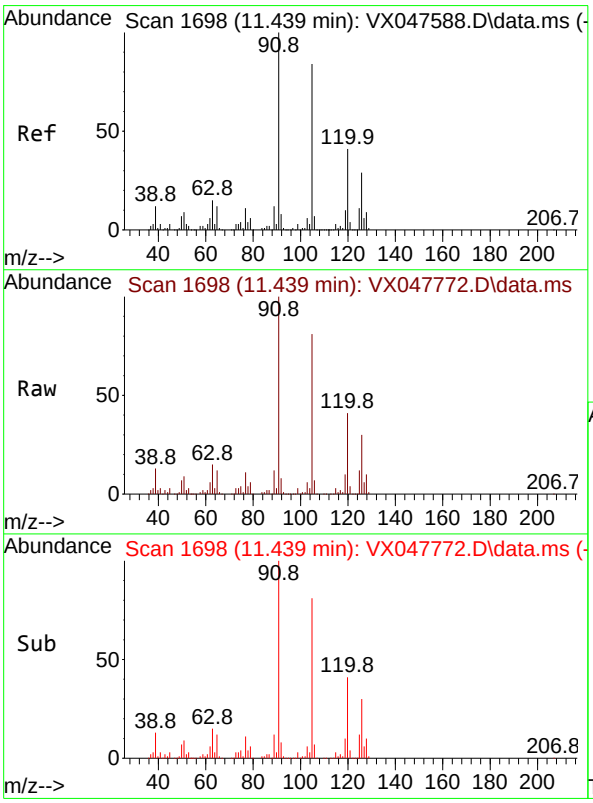
#81
trans-1,4-Dichloro-2-butene
Concen: 17.023 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 75 Resp: 17467

Ion	Ratio	Lower	Upper
75	100		
53	111.6	83.4	125.2
89	47.5	36.3	54.5

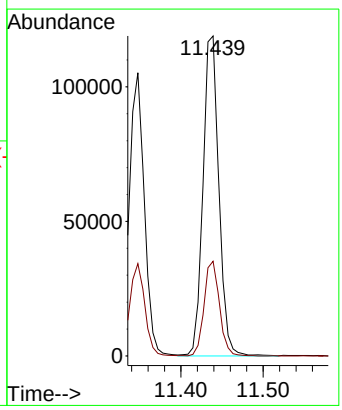


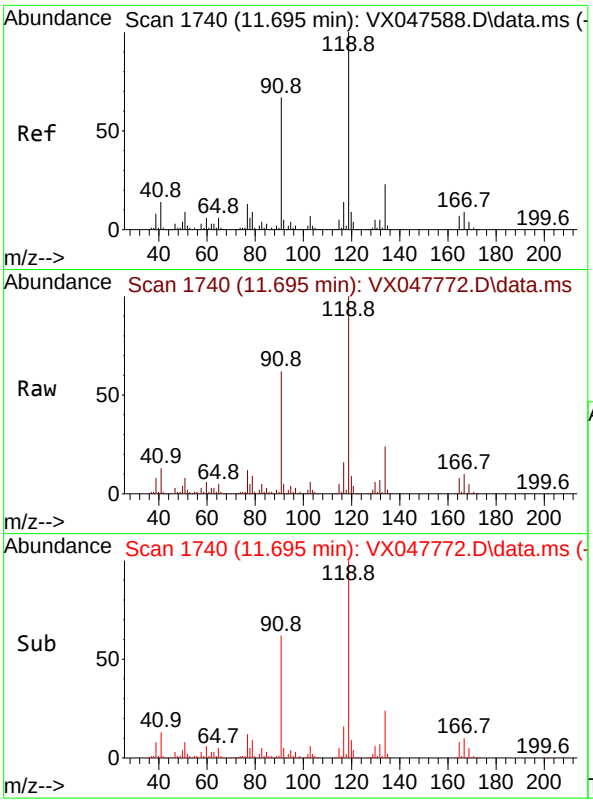


#82
4-Chlorotoluene
Concen: 18.979 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 91 Resp: 159461

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6



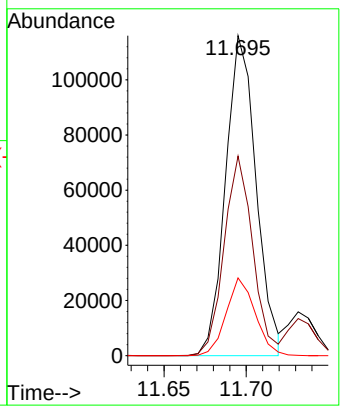


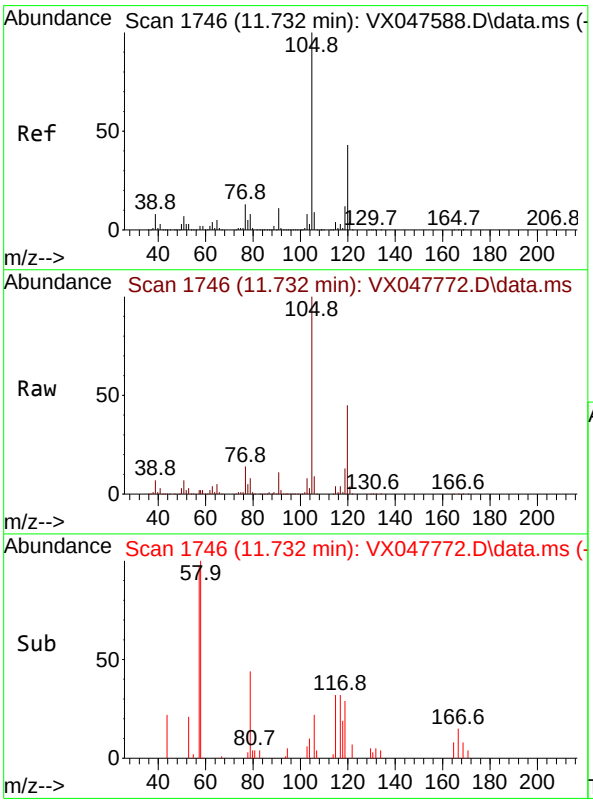
#83
tert-Butylbenzene
Concen: 18.153 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:119 Resp: 150008

Ion	Ratio	Lower	Upper
119	100		
91	58.8	29.6	88.8
134	23.2	11.0	33.0

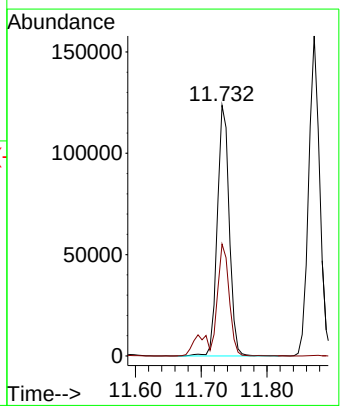


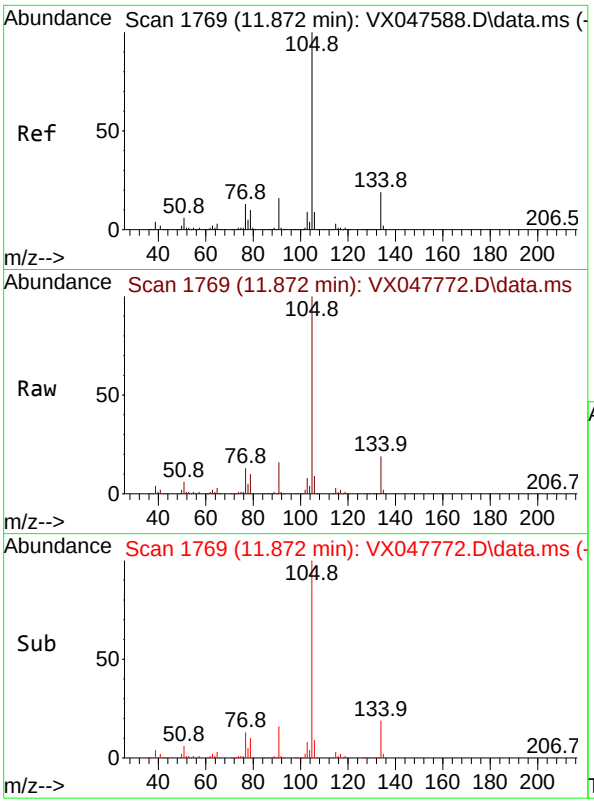


#84
1,2,4-Trimethylbenzene
Concen: 19.053 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:105 Resp: 155933

Ion	Ratio	Lower	Upper
105	100		
120	43.1	22.1	66.1



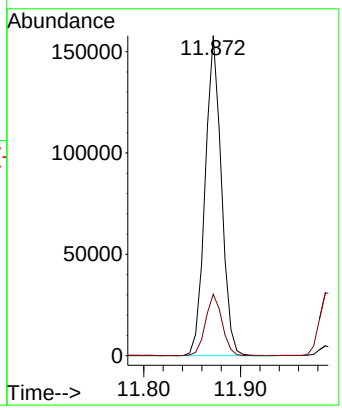


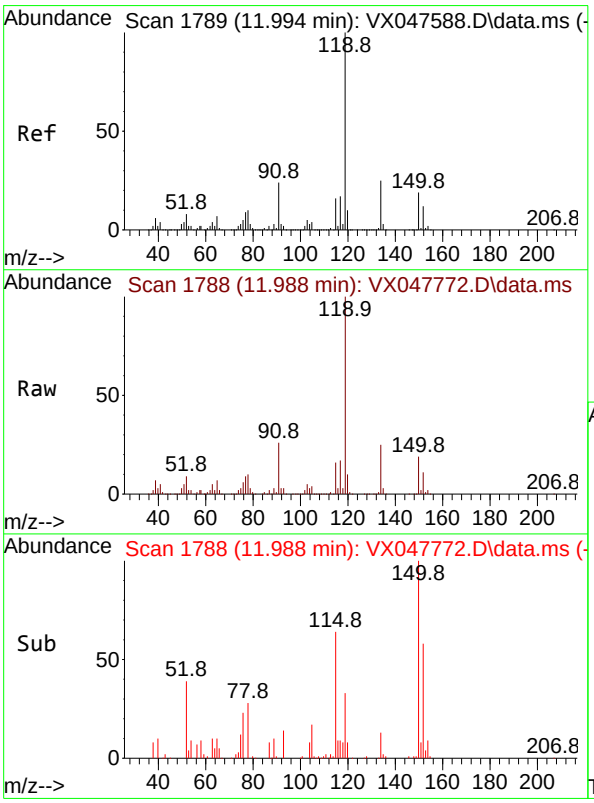
#85
sec-Butylbenzene
Concen: 18.788 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:105 Resp: 184409

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5

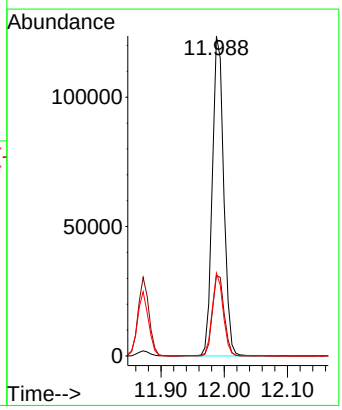


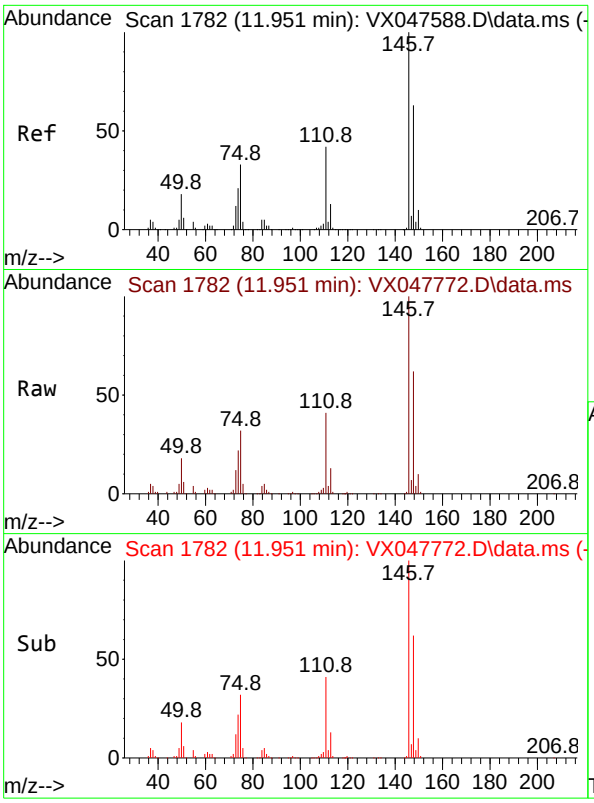


#86
p-Isopropyltoluene
Concen: 18.660 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:119 Resp: 155061

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.1	12.6	37.6



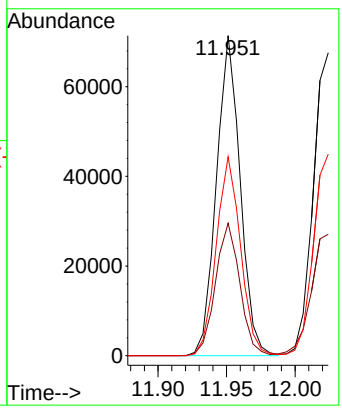


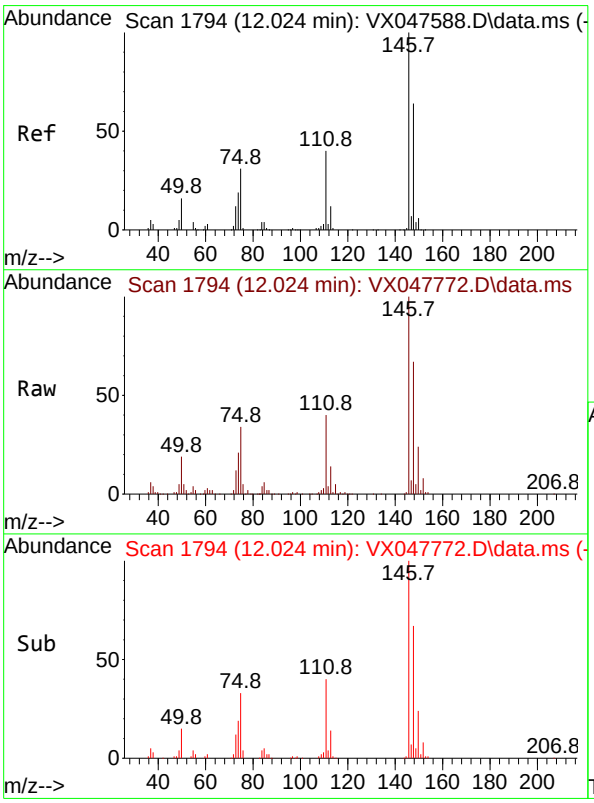
#87
1,3-Dichlorobenzene
Concen: 19.145 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:146 Resp: 86052

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.5	64.5
148	63.8	32.0	96.0

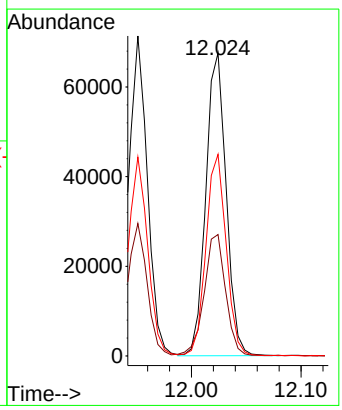


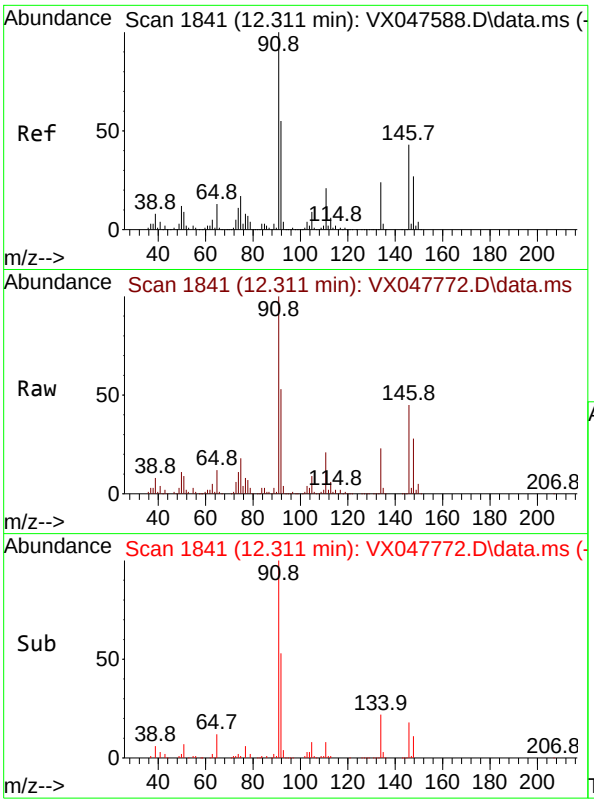


#88
1,4-Dichlorobenzene
Concen: 18.824 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:146 Resp: 86839

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.8	62.4
148	66.3	31.7	95.1



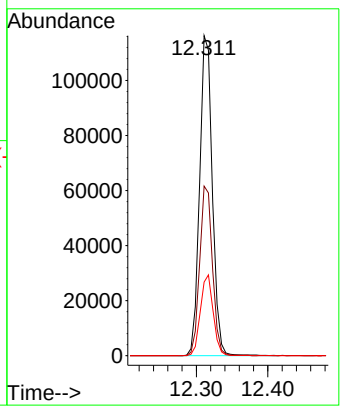


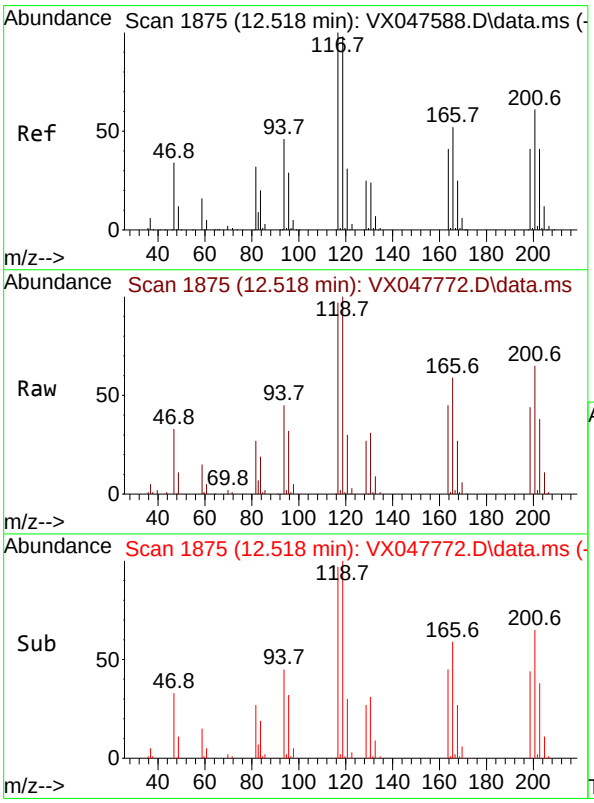
#89
n-Butylbenzene
Concen: 18.668 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion: 91 Resp: 143536

Ion	Ratio	Lower	Upper
91	100		
92	53.2	27.6	82.7
134	25.4	12.6	37.8

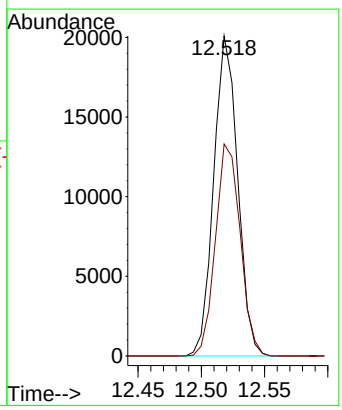


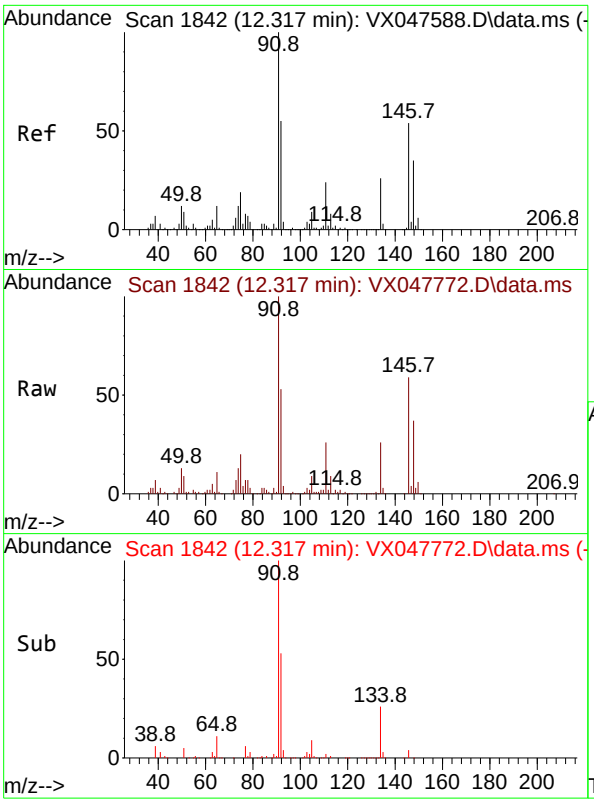


#90
Hexachloroethane
Concen: 18.084 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:117 Resp: 26384

Ion	Ratio	Lower	Upper
117	100		
201	68.7	34.2	102.5



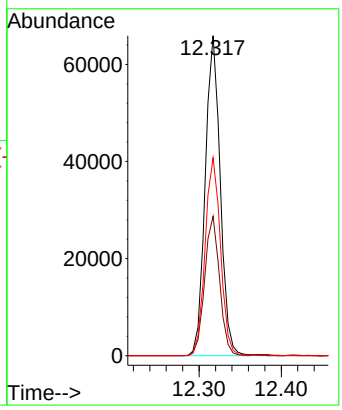


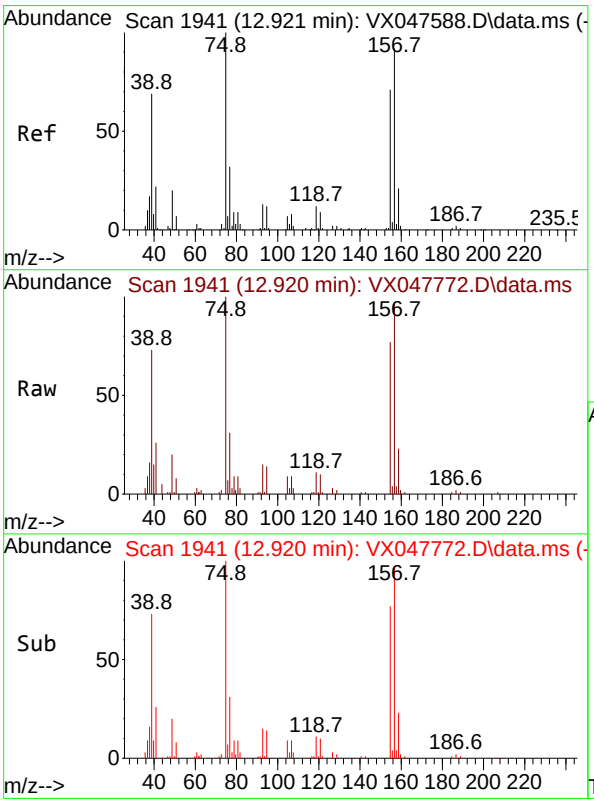
#91
1,2-Dichlorobenzene
Concen: 19.582 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:146 Resp: 83853

Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.2	66.6
148	63.2	31.8	95.4

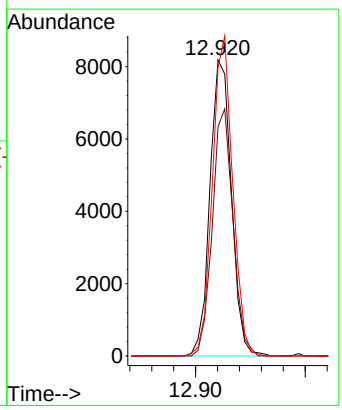


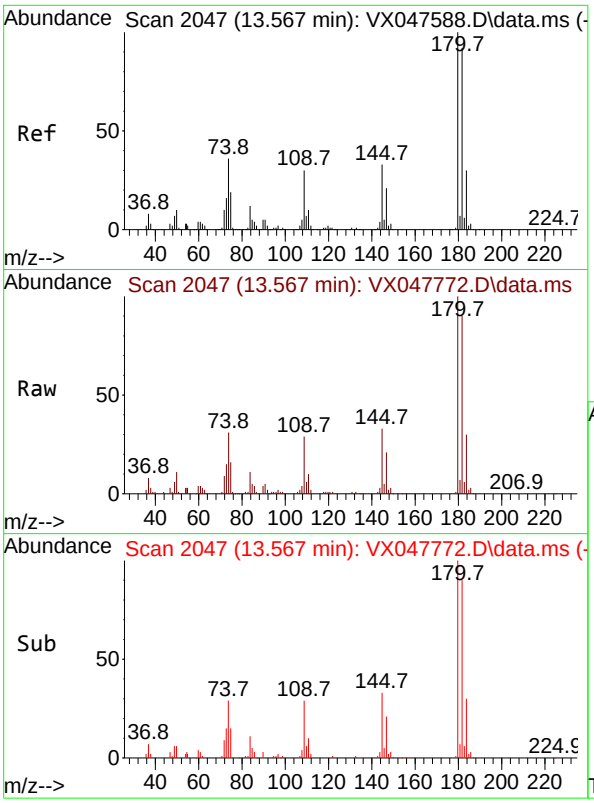


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.453 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion: 75 Resp: 11106

Ion	Ratio	Lower	Upper
75	100		
155	80.4	37.7	113.1
157	102.5	49.8	149.4



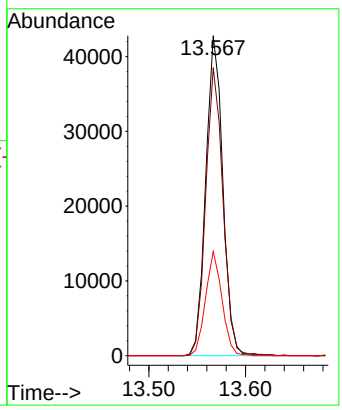


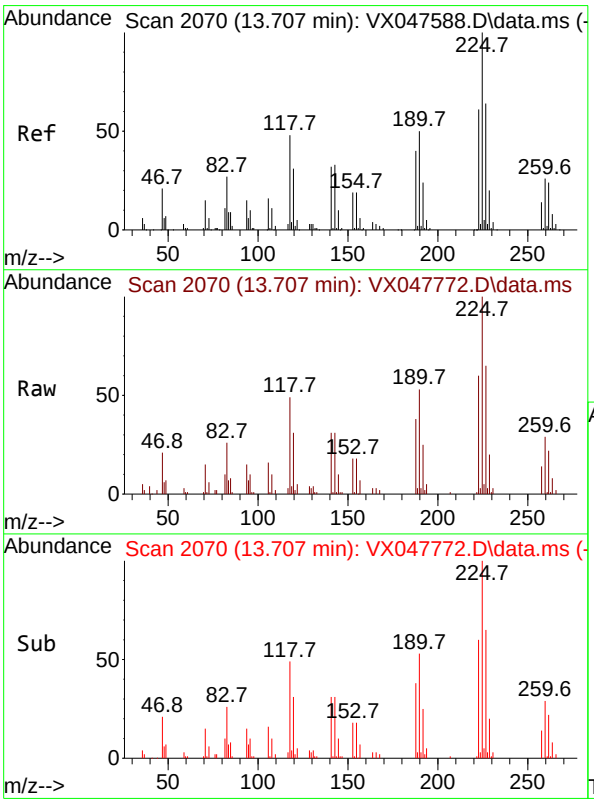
#93
1,2,4-Trichlorobenzene
Concen: 18.882 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

Tgt Ion:180 Resp: 52549

Ion	Ratio	Lower	Upper
180	100		
182	91.3	46.6	139.8
145	31.5	16.4	49.1

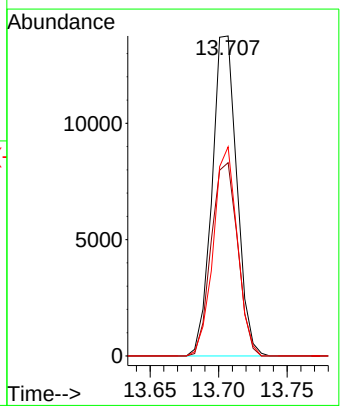


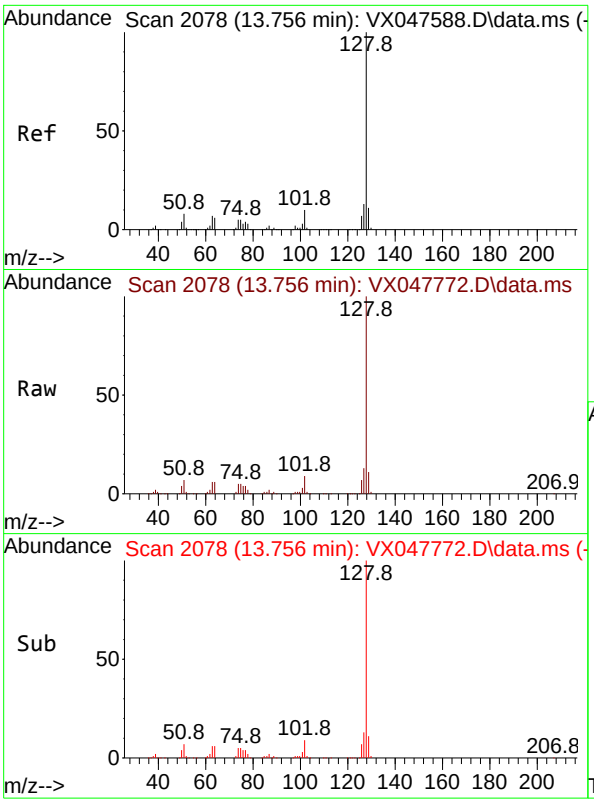


#94
Hexachlorobutadiene
Concen: 18.307 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:225 Resp: 17306

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.7	95.1
227	63.2	32.0	96.0



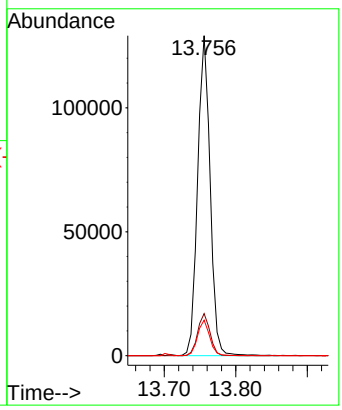


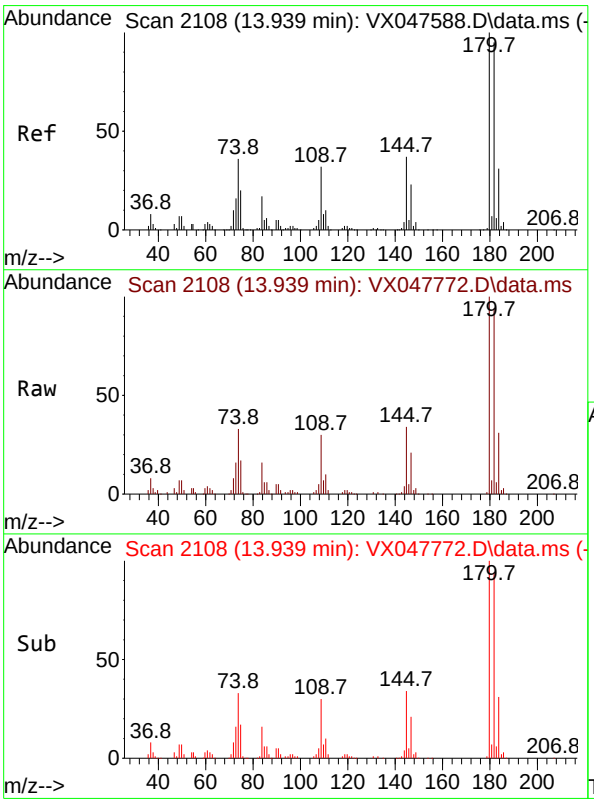
#95
Naphthalene
Concen: 18.438 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Instrument :
MSVOA_X
ClientSampleId :
VX0924WBS01

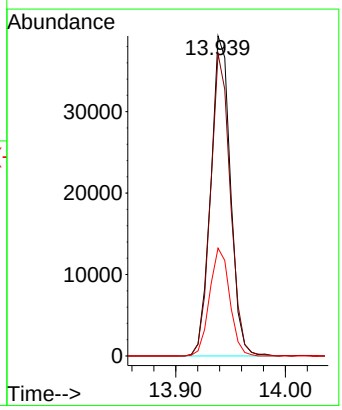
Tgt Ion:128 Resp: 156255

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2





#96
1,2,3-Trichlorobenzene
Concen: 18.990 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047772.D
Acq: 24 Sep 2025 13:59

Tgt Ion:180 Resp: 49161

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.6	142.8
145	34.3	17.9	53.7